WKE NOVEMBER 2022

PROJECT ID: 2984-00-74
WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 542

31

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C MILWAUKEE, W VLIET STREET

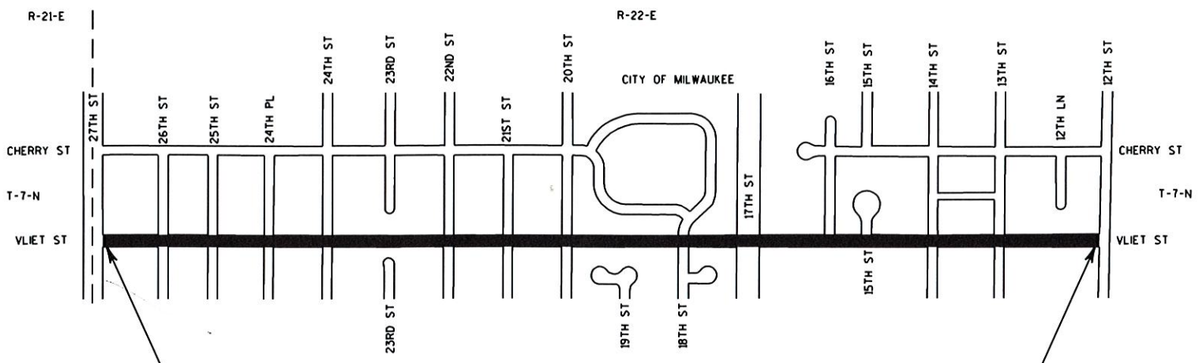
N 27TH STREET TO N 12TH STREET

LOCAL STREET

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2984-00-74	WISC 2023032	1

STATE PROJECT NUMBER
2984-00-74



BEGIN PROJECT 2984-00-74
STA. 10VL+69.11
X = 2548603.206
Y = 388941.413

END PROJECT 2984-00-74
STA. 64VL+74.79

DESIGN DESIGNATION		VLIET STREET
A.A.D.T. (2022)	=	8,400
A.A.D.T. (2042)	=	9,200
D.H.V.	=	900
D.D.	=	55%
T.	=	5.5%
DESIGN SPEED	=	35 M.P.H
ESALS	=	2,455,132

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS/ HIGH VOLTAGE (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

ELECTRIC	E	COMBINED SEWER	SSS
FIBER OPTIC	FO	CONDUIT	C
GAS	G	TRAFFIC & LIGHTING CONDUIT	TES
SANITARY SEWER	SAN	AT&T	AT&T
STORM SEWER	SS	ATC UNDERGROUND	138 KV
TELEPHONE	T	MIDWEST FIBER NETWORKS	MFN
WATER	W		
UTILITY PEDESTAL			
POWER POLE			
TELEPHONE POLE			

LAYOUT
SCALE 0 — 1/4 MI

TOTAL NET LENGTH OF CENTERLINE = 1.023 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), NAD 27 SOUTH ZONE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.

TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO NATIONAL GEODEDIC VERTICAL DATUM OF 1929, ADD 580.603 TO ELEVATIONS SHOWN ON THIS PLAN.

ACCEPTED FOR
CITY of MILWAUKEE
7/21/22 Commissioner of Public Works
(Date) (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY
HNTB CORP.
250 E. WISCONSIN AVE
MILWAUKEE, WI 53202
(414) 359-2300
DARIUS A. WRIGHT JR. E-33351-006 MILWAUKEE, WI PROFESSIONAL ENGINEER
7/20/2022 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	TERRA ENGINEERING LTD.
Designer	HNTB CORP.
Project Manager	GREG HAFEMAN
Regional Examiner	WISDOT SE REGION LOCAL PROGRAM
Regional Supervisor	JEFF BOHEN
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 7/23/2022 (Signature)

E

UTILITY CONTACTS

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JEFF VANDERWERFF
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WAUKESHA, WI 53188
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jvanderwerff@atcllc.com

AT&T WISCONSIN
JAY BULANEK
435 S. 95TH STREET
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jb5175@att.com

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MILWAUKEE, WI 53212
PHONE: (414) 758-9241
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wis.engineering@charter.com
CHARLES BRASILE
CONSTRUCTION COORDINATOR
charles.brasile@charter.com

MIDWEST FIBER NETWORKS
CORY SCHMUKI
6070 N. FLINT ROAD
GLENDALE, WI 53209
PHONE: (414) 459-3561
CELL: (414) 349-2764
cschmuki@midwestfibernetworks.com

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DAVID HENKE
841 N. BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3248
david.henke@milwaukee.gov

MILWAUKEE, CITY OF - CITY UNDERGROUND CONDUIT
MRS. KAREN ROGNEY
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MILWAUKEE, WI 53202
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karen.rogney@milwaukee.gov

MILWAUKEE, CITY OF - SEWERS
ZAFAR YOUSUF
841 N. BROADWAY, ROOM 821
MILWAUKEE, WI 53202
PHONE: (414) 286-2467
CELL: (414) 559-7028
zafar.yousuf@milwaukee.gov

MILWAUKEE, CITY OF - STREET LIGHTING
NEAL KARWEIK
841 N. BROADWAY, ROOM 920
MILWAUKEE, WI 53202
PHONE: (414) 286-5943
nkarwe@milwaukee.gov

MILWAUKEE, CITY OF - TRAFFIC SIGNALS
RUDY GUTIERREZ
1540 W. CANAL STREET
MILWAUKEE, WI 53233
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CELL: (414) 708-5148
rgutie@milwaukee.gov

MILWAUKEE, CITY OF - WATER WORKS
JOSH IWEN
841 N. BROADWAY, ROOM 409
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joshua.iwen@milwaukee.gov
MWW CONTROL CENTER (24/7 CONTACT)
841 N. BROADWAY, ROOM 409
MILWAUKEE, WI 53202
PHONE: (414) 286-3710

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
NICOLE SMULLEN
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: 414-221-5617
CELL: (414) 460-7190
nicole.smullen@we-energies.com

CONSTRUCTION FIELD CONTACT:
NICH ERNSTER
500 S. 116TH STREET
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nicholas.ernster@we-energies.com

WE ENERGIES - ELECTRIC
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Nicole.smullen@we-energies.com

CONSTRUCTION FIELD CONTACT:
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nicholas.welch@we-energies.com

STATE AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SERVICE CENTER
2300 N. MARTIN LUTHER KING JR.
MILWAUKEE WI 53212
PHONE: (414) 507-4946
kristina.betzold@wisconsin.gov

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

OTHER AGENCIES

MILWAUKEE COUNTY TRANSIT SYSTEM
DAVID LOCHER
1942 N. 17TH STREET
MILWAUKEE, WI 53205
PHONE: (414) 343-1727
dlocher@mcts.org

MILWAUKEE COUNTY TRANSIT SYSTEM
ARMOND SENSABAUGH
1942 N. 17TH STREET
MILWAUKEE, WI 53205
PHONE: (414) 343-1728
asensabaugh@mcts.org

MILWAUKEE, CITY OF
JERREL KRUSCHKE, CITY ENGINEER
841 N. BROADWAY, ROOM 501
MILWAUKEE, WI 53202
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jkrusc@milwaukee.gov

MILWAUKEE COUNTY - DPW
GREG HEISEL, HIGHWAY MAINTENANCE MANAGER
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gheisel@milwcnty.com

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
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WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
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DESIGN CONTACTS

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414-359-2300
DWRIGHT@HNTB.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CURB RAMP DETAILS
REMOVAL PLAN
EXISTING TRACK ZONE
PLAN DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
LANDSCAPING PLAN
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL INTERCONNECT
CITY UNDERGROUND CONDUIT (CUC) PLAN
PAVEMENT MARKING PLAN
TRAFFIC CONTROL
ALIGNMENT PLAN

GENERAL NOTES

1 THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

2 A SAWED JOINT IS REQUIRED WHERE NEW HMA OR CONCRETE PAVEMENT SURFACE MEETS EXISTING HMA OR CONCRETE PAVEMENT SURFACE.

3 EXISTING DRIVEWAYS SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

4 LOCATION OF SIDEWALK BASEMENT VAULTS (HOLLOW WALKS) HAVE BEEN DETERMINED FROM CITY OF MILWAUKEE RECORDS AND FIELD INSPECTION. CONTRACTOR TO FIELD VERIFY LOCATION OF VAULTS PRIOR TO CONSTRUCTION OF WORK.

5 LOCATION OF EXISTING STREET CAR RAILS (TRACK ZONE) HAVE BEEN APPROXIMATED BASED ON CITY OF MILWAUKEE RECORDS.

6 WHEN THE QUANTITY OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

7 CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

8 RIGHT OF WAY LINES SHOWN ARE APPROXIMATE.

9 CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. STATION/OFFSETS AND CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

10 ALL MANHOLE AND INLET STATIONS AND OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE

11 PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL FIELD VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN.

12 INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

13 INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER AND MUST BE INSTALLED PRIOR TO ANY REMOVALS.

14 EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER

15 EROSION CONTROL DEVICES SHOWN ON THE PLAN SHEETS AND ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

16 THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL

ALIGNMENT IDENTIFIERS	
NSA	26TH STREET
NSB	25TH STREET
NSC	24TH PLACE
NSD	24TH STREET
NSE	22ND STREET
NSF	21ST STREET
NSG	20TH STREET
NSH	18TH STREET
NSI	17TH STREET SB
NSJ	17TH STREET NB
NSK	15TH STREET
NSL	14TH STREET
NSM	13TH STREET
NSN	12TH LANE
VL	VLIET STREET

ABBREVIATIONS

BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTUCTION LINE
CONC	CONCRETE
CONST.	CONSTRUCTION
CP	CONTROL POINT
CWT	HUNDRED WEIGHT
CY	CUBIC-YARD
D	DEGREE OF CURVE
DIA.	DIAMETER
Δ	DELTA
EB	EASTBOUND
HMA	HOT MIX ASPHALT
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
LTG	LIGHTING
MH	MANHOLE
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
O.C.	ON CENTER
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
R	RADIUS OF CURVE
REQD	REQUIRED
R/L	REFERENCE LINE
RT	RIGHT
R/W	RIGHT OF WAY
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TYP.	TYPICAL
VL	W. VLIET STREET
WB	WESTBOUND

2

2

2

CITY OF MILWAUKEE

N

W. GALENA STREET

W. CHERRY STREET

W. CHERRY STREET

W. CHERRY STREET

W. FOND DU LAC AVENUE

N. 15TH STREET

BEGIN PROJECT 2984-00-74
STA. 10VL+69.11

END PROJECT 2984-00-74
STA. 64VL+74.79

R/L W. VLIET STREET

B 15VL B 20VL B 25VL B 30VL B 35VL B 40VL B 45VL B 50VL B 55VL 60VL B 65VL

W. VLIET STREET

W. VLIET STREET

R/L W. VLIET STREET

N. 27TH STREET
N. 26TH STREET
N. 25TH STREET
N. 24TH PLACE
N. 24TH STREET
N. 23RD STREET
N. 22ND STREET
N. 21ST STREET
N. 20TH STREET
N. 18TH STREET
N. 17TH STREET
N. 14TH STREET
N. 13TH STREET
N. 12TH LANE
N. 12TH STREET

MCKINLEY AVE

KING PARK

IH-43

W. JUNEAU AVENUE

BUS STOP LOCATIONS
27TH ST
25TH ST
24TH ST
22ND ST
20TH ST
18TH ST
17TH ST
15TH ST
12TH ST

CULTURAL RESOURCES LEGEND
ARCHAEOLOGICAL SITE
HISTORIC PROPERTY

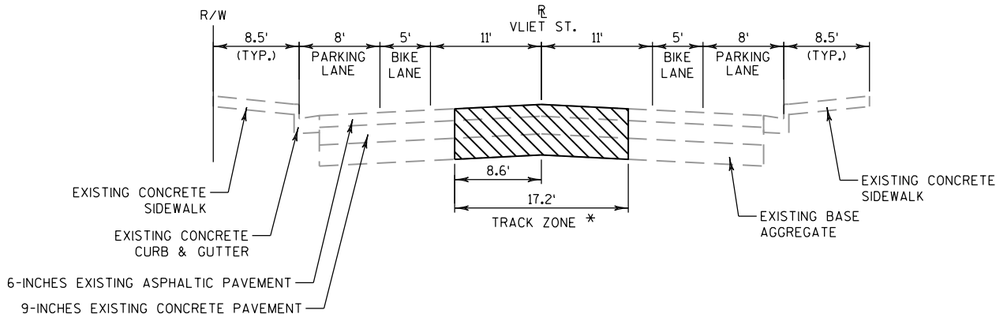
LEGEND
B BUS STOP LOCATION
ONE-WAY TRAFFIC DIRECTION

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\11x8s\202401_poPlot.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 400:1

WISDOT/CADDS SHEET 42

2



TYPICAL EXISTING SECTION

W. VLIET STREET

STA 10VL+69.11 TO STA 64VL+74.79

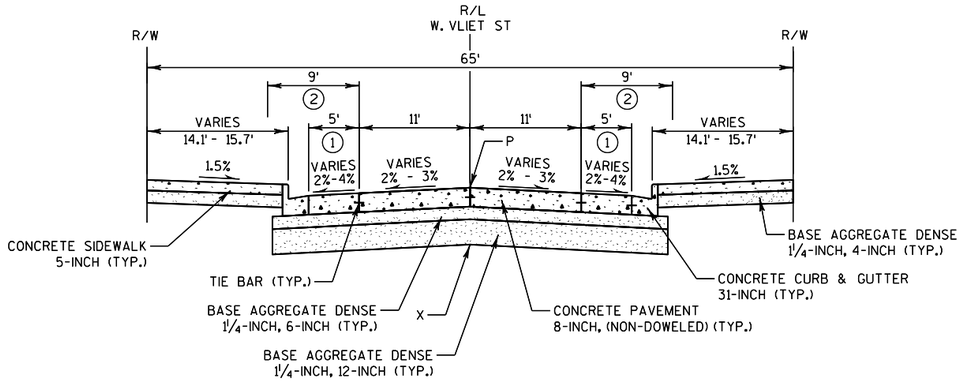
NOTES:
THE EXISTING PAVEMENT STRUCTURE IS BASED ON THE AVERAGE THICKNESS OF MATERIALS OBTAINED FROM THE BORING LOGS.

* TRACK ZONE APPROXIMATE LOCATIONS

1) STA. 10VL+65 - STA. 27VL+67
2) STA. 30VL+10 - STA. 36VL+00

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TYPICAL SECTIONS: EXISTING	SHEET 5	E

2



1 BIKE LANE

2 LATERAL CLEARANCE

TYPICAL FINISHED SECTION
W. VLIET STREET

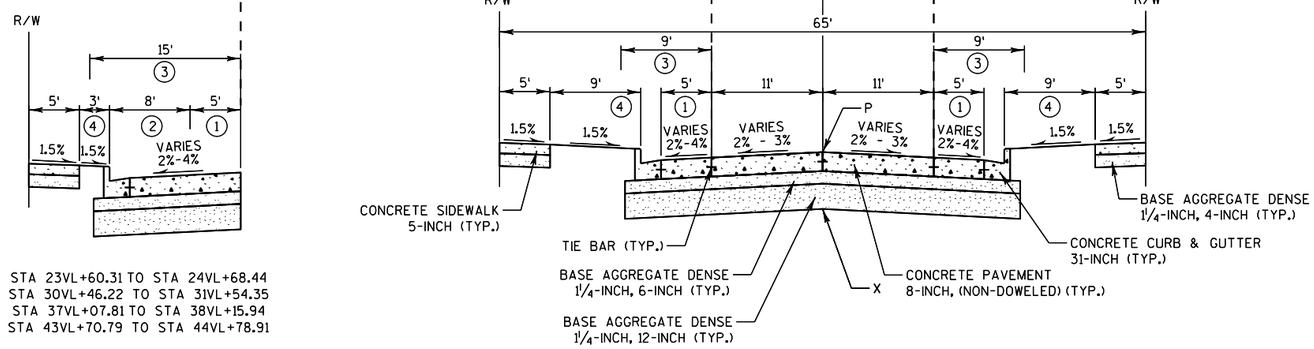
AT PEDESTRIAN BUMP OUTS

P - POINT REFERRED TO ON PROFILE

X - POINT REFERRED TO ON CROSS SECTIONS

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TYPICAL SECTIONS: PROPOSED	SHEET 6	E

2



STA 23VL+60.31 TO STA 24VL+68.44
STA 30VL+46.22 TO STA 31VL+54.35
STA 37VL+07.81 TO STA 38VL+15.94
STA 43VL+70.79 TO STA 44VL+78.91

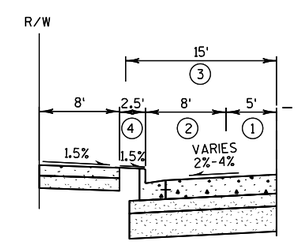
STA 28VL+76.29 TO STA 29VL+84.41
STA 35VL+42.46 TO STA 36VL+50.58
STA 45VL+32.22 TO STA 46VL+40.34

TYPICAL FINISHED SECTION
W. VLIET STREET

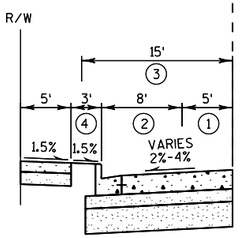
STA 23VL+64.78 TO STA 46VL+30.69

* SIDEWALK WIDTH VARIES - SEE PLAN DETAILS FOR LIMITS

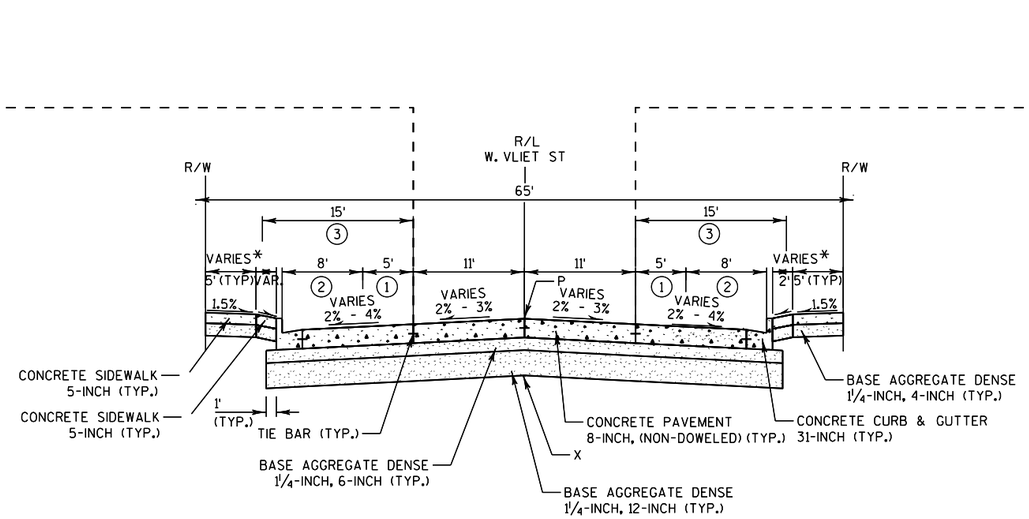
① BIKE LANE
② PARKING LANE (6' PAVEMENT WITH 2' GUTTER PAN)
③ LATERAL CLEARANCE
④ TOPSOIL AND SOD



STA 63VL+30.17 TO STA 64VL+74.79

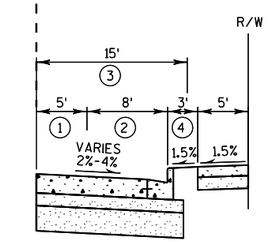


STA 14VL+07.10 TO STA 23VL+32.14
STA 46VL+73.52TO STA 63VL+30.17



TYPICAL FINISHED SECTION
W. VLIET STREET

STA 10VL+69.11 TO STA 23VL+64.78
STA 46VL+30.69 TO STA 64VL+74.79



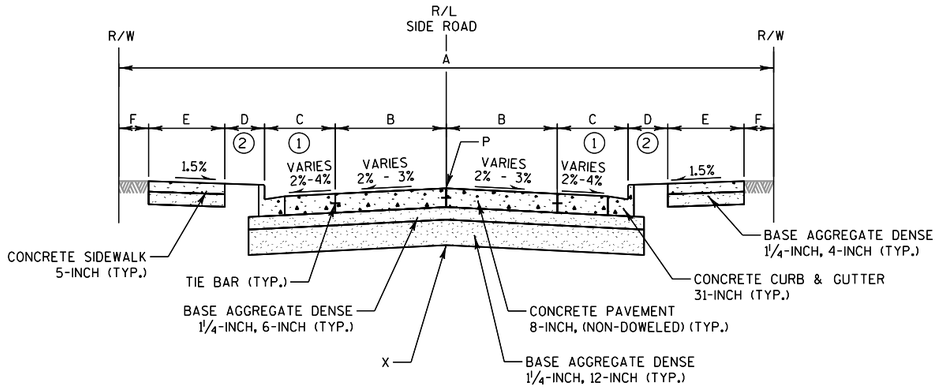
STA 46VL+73.52TO STA 63VL+30.17

P - POINT REFERRED TO ON PROFILE

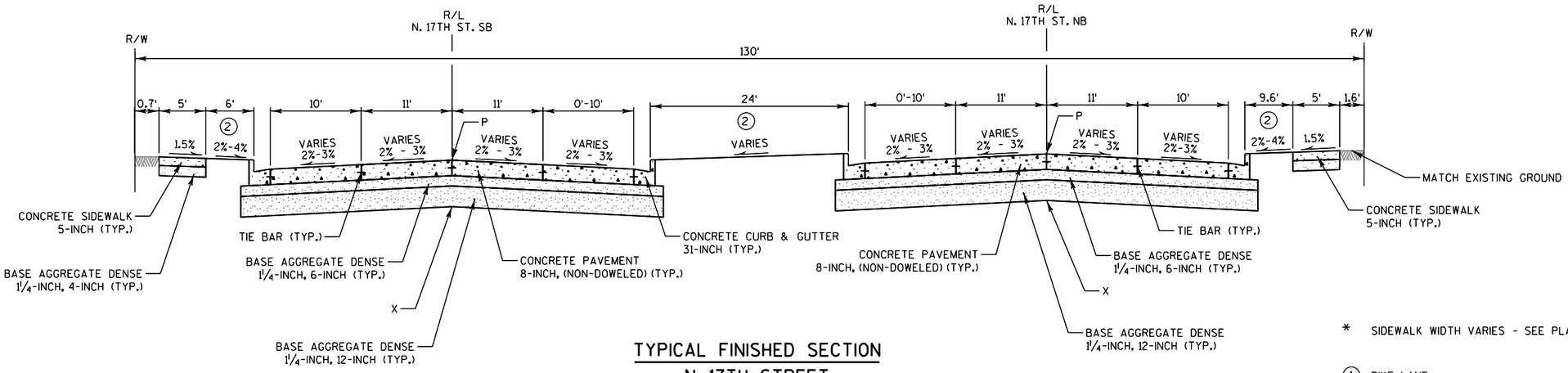
X - POINT REFERRED TO ON CROSS SECTIONS

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TYPICAL SECTIONS: PROPOSED	SHEET 7	E

		BEGIN STATION	END STATION	A R/W	B LANE LEFT	B LANE RIGHT	C PARKING LEFT	C PARKING RIGHT	D TERRACE (FRONT SW) LEFT	D TERRACE (FRONT SW) RIGHT	E SIDEWALK LEFT	E SIDEWALK RIGHT	F TERRACE (BEHIND SW) LEFT	F TERRACE (BEHIND SW) RIGHT
N. 26TH STREET	NORTH SIDE	10+16.00	10+51.42	66.0'	15.0'	15.0'	-	-	-	5.0'	11.5'	6.5'	4.5'	4.5'
	SOUTH SIDE	9+53.00	9+84.00	69.0'	14.0'	14.0'	-	-	6.0'	-	6.0'	17.0'	8.0'	-
N. 25TH STREET	NORTH SIDE	10+22.00	10+48.00	60.0'	14.0'	14.0'	-	-	-	5.0'	15.0'	6.0'	-	2.0'
	SOUTH SIDE	9+53.00	9+78.00	60.0'	11.0'	11.0'	7.0'	7.0'	-	-	13.0'	11.0'	-	-
N. 24TH PLACE	NORTH SIDE	10+16.00	10+44.00	40.0'	11.0'	11.0'	-	-	-	-	6.0'	6.0'	2.0'	-
	SOUTH SIDE	9+50.00	9+84.00	60.0'	13.0'	13.0'	-	-	7.0'	7.0'	5.0'	7.0'	4.0'	-
N. 24TH STREET	NORTH SIDE	10+22.00	10+59.00	60.0'	11.0'	11.0'	7.0'	7.0'	2.6'	2.8'	6.0'	6.0'	4.0'	2.6'
	SOUTH SIDE	9+41.00	9+84.00	60.0'	11.0'	11.0'	7.0'	7.0'	-	3.7'	8.3'	5.0'	4.8'	2.2'
N. 22ND STREET	NORTH SIDE	10+16.00	10+49.00	60.0'	14.0'	14.0'	-	-	3.6'	5.6'	6.0'	6.0'	4.5'	2.3'
	SOUTH SIDE	9+49.00	9+84.00	60.0'	14.0'	14.0'	-	-	6.8'	6.8'	5.0'	5.0'	2.9'	1.5'
N. 21ST STREET	NORTH SIDE	10+16.00	10+49.00	60.0'	14.0'	14.0'	-	-	4.6'	4.6'	6.0'	6.0'	3.8'	3.0'
	SOUTH SIDE	9+49.00	9+84.00	60.0'	14.0'	14.0'	-	-	4.6'	3.9'	6.0'	5.0'	4.9'	3.6'
N. 20TH STREET	NORTH SIDE	10+16.00	10+64.00	60.0'	11.0'	11.0'	8.0'	8.0'	2.5'	5.6'	5.0'	5.0'	3.4'	0.5'
	SOUTH SIDE	9+40.00	9+84.00	60.0'	11.0'	11.0'	8.0'	8.0'	2.6'	5.6'	5.2'	5.0'	3.2'	0.4'
N. 18TH STREET	NORTH SIDE	10+16.02	10+51.99	60.0'	15.0'	15.0'	-	-	6.5'	6.5'	5.0'	5.0'	2.0'	1.0'
	SOUTH SIDE	9+49.00	9+84.00	60.0'	15.0'	15.0'	-	-	6.6'	7.1'	5.0'	5.0'	1.0'	1.3'
N. 15TH STREET	NORTH SIDE	10+16.00	10+48.00	60.0'	15.0'	15.0'	-	-	6.6'	7.1'	5.0'	5.0'	1.6'	0.7'
	SOUTH SIDE	-	-	-	-	-	-	-	-	-	-	-	-	-
N. 14TH STREET	NORTH SIDE	10+16.00	10+48.00	60.0'	13.0'	13.0'	-	-	-	-	15.4'	14.6'	-	-
	SOUTH SIDE	9+47.00	9+84.00	60.0'	14.0'	14.0'	-	-	6.7'	5.1'	5.0'	6.0'	1.7'	3.5'
N. 13TH STREET	NORTH SIDE	10+16.00	10+65.00	60.0'	12.0'	12.0'	8.0'	8.0'	-	-	10.2'	9.8'	-	-
	SOUTH SIDE	9+32.00	9+84.00	60.0'	12.0'	12.0'	8.0'	8.0'	-	-	10.2'	9.8'	-	-
N. 12TH LANE	NORTH SIDE	-	-	-	-	-	-	-	-	-	-	-	-	-
	SOUTH SIDE	9+58.04	9+78.00	30.0'	10.0'	10.0'	-	-	-	-	3.7'	3.0'	-	-



TYPICAL FINISHED SECTION
SIDE ROADS



TYPICAL FINISHED SECTION
N. 17TH STREET

9NSI+25.00 TO 9NSI+84.00
10NSI+16.00 TO 10NSI+74.00

9NSJ+25.00 TO 9NSJ+84.00
10NSJ+16.00 TO 10NSJ+74.00

* SIDEWALK WIDTH VARIES - SEE PLAN DETAILS FOR LIMITS

(1) BIKE LANE

(2) TOPSOIL AND SOD

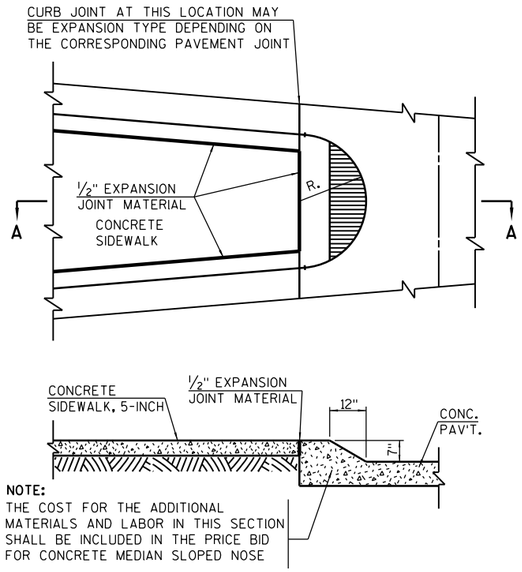
P - POINT REFERRED TO ON PROFILE

X - POINT REFERRED TO ON CROSS SECTIONS

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TYPICAL SECTIONS: PROPOSED	SHEET 8	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Sheets\020M01_ts2.dgn PLOT BY : ecastellan PLOT NAME : $FILE$ PLOT SCALE : 15:1

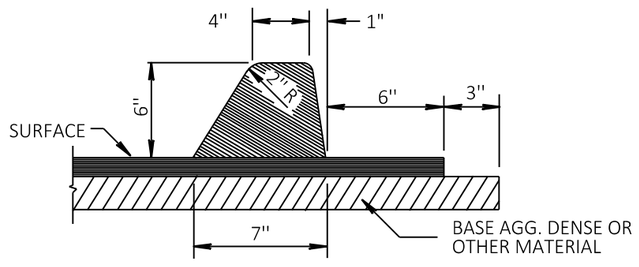
STHDOT/CADDS SHEET 42



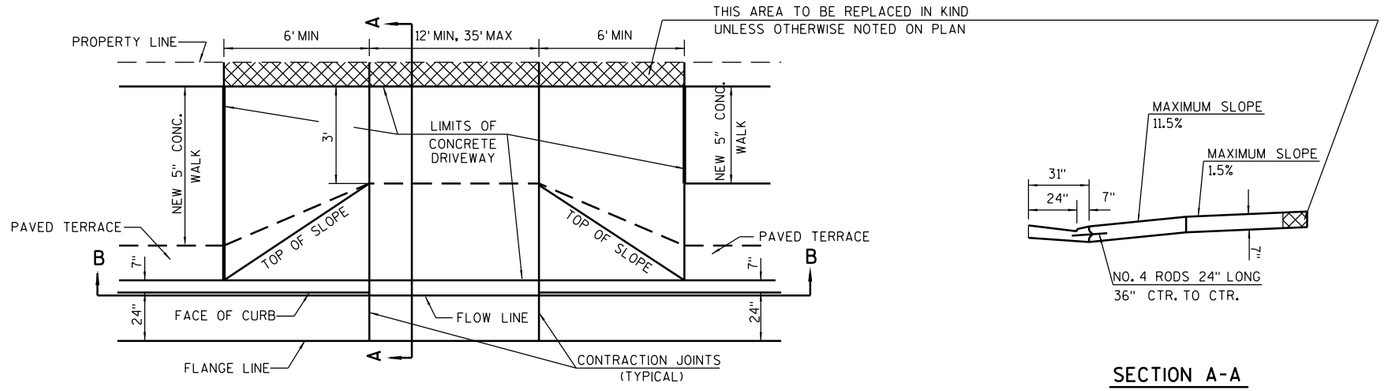
SECTION A-A

SNOWPLOWABLE MEDIAN ISLAND NOSE

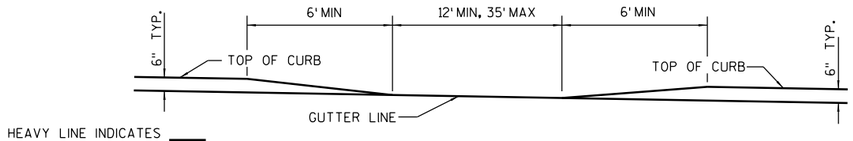
(TYPICAL SECTION OF CONCRETE CURB & GUTTER TO BE CONSTRUCTED AT END OF MEDIAN ISLAND)



ASPHALTIC CURB DETAIL



SECTION A-A



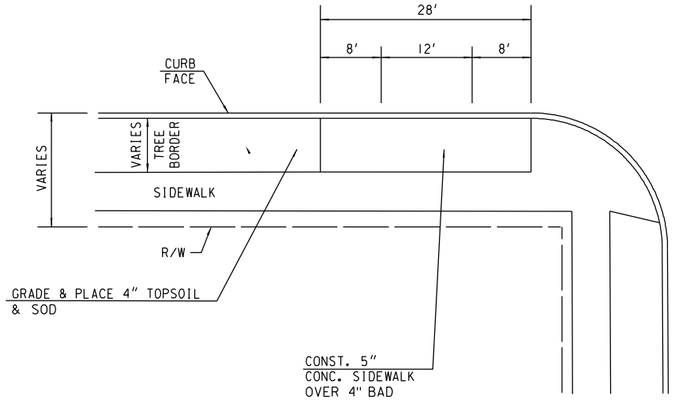
SECTION B-B

DRIVEWAY CONSTRUCTION NOTES

CONSTRUCT DRIVEWAY TO PROPERTY LINE ONLY WHEN MATCHING EXISTING DRIVEWAY AND INSTALL ½" EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY, PLACE DUMMY JOINT AT CENTER LINE OF DRIVEWAY AND / OR AT ALL JOINTS IN THE GUTTER

DEPRESSED CONCRETE DRIVEWAY (MODIFIED)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 9	E



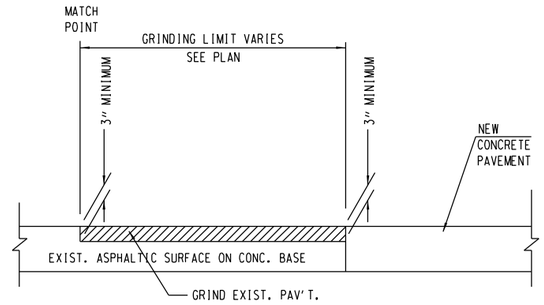
BUS STOP LOCATIONS

27TH ST
25TH ST
24TH ST
22ND ST
20TH ST
18TH ST
17TH ST
15TH ST
12TH ST

BUS STOP WALK DETAIL

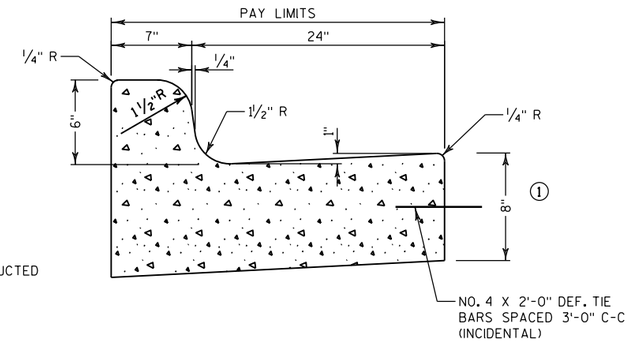
GENERAL NOTES

THE SLOPE OF PASSENGER BOARDING AREA MAY NOT EXCEED 2%.



REMOVING ASPHALTIC SURFACE BUTT JOINTS

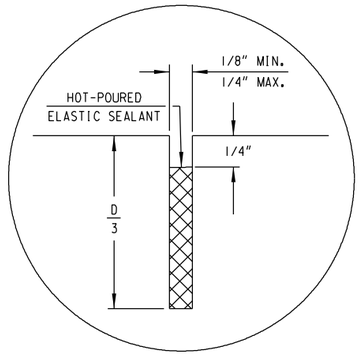
IN ROADWAY AT INTERSECTIONS AND ABUTTING PAVEMENT



NOTE

(1) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE.

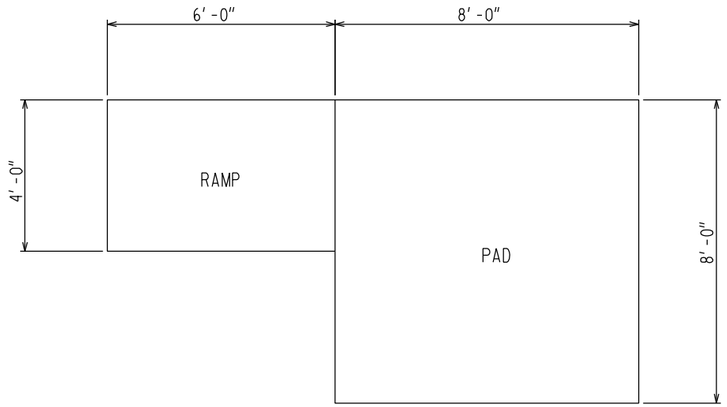
CONCRETE CURB & GUTTER 31-INCH

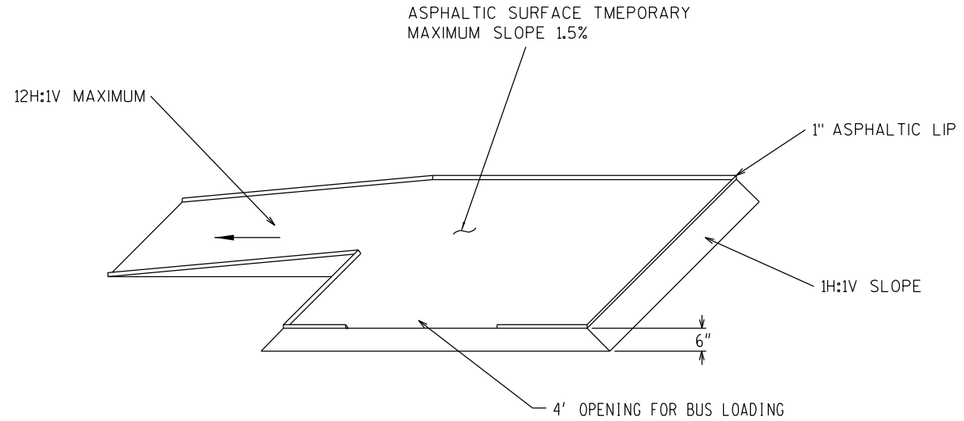


JOINT SEALING DETAIL

PAVEMENT DEPTH AND JOINT SPACING TABLE	
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6"	12'
7"	14'
8"	15'
9"	15'
10" & ABOVE	18'

2





NOTE:
RAMP SHALL BE PLACED TO FACE
TOWARDS PEDESTRIAN CROSSING

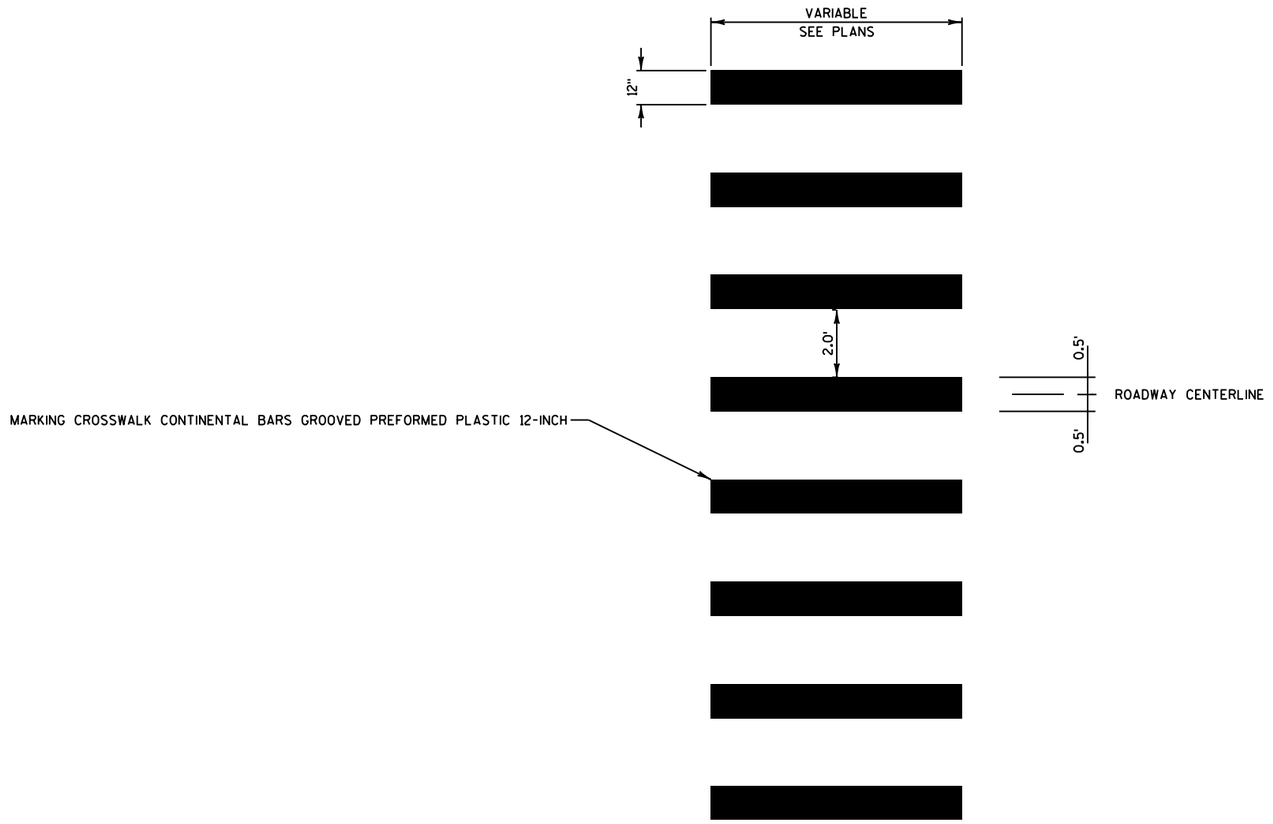
NOTE

RAMP LENGTH MIGHT BE LONGER
TO ACHIEVE MAXIMUM 12H:1V

TEMPORARY BUS LOADING ZONE

TEMPORARY
BUS LOADING ZONE LOCATIONS
11NSI+00
9NSJ+15

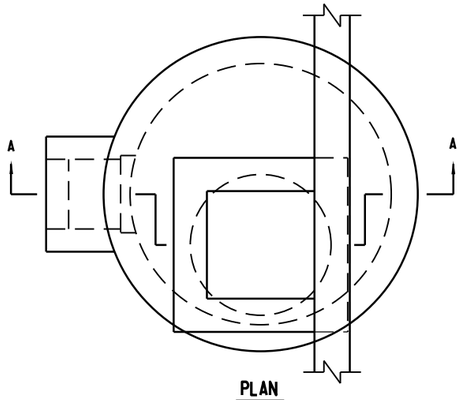
2



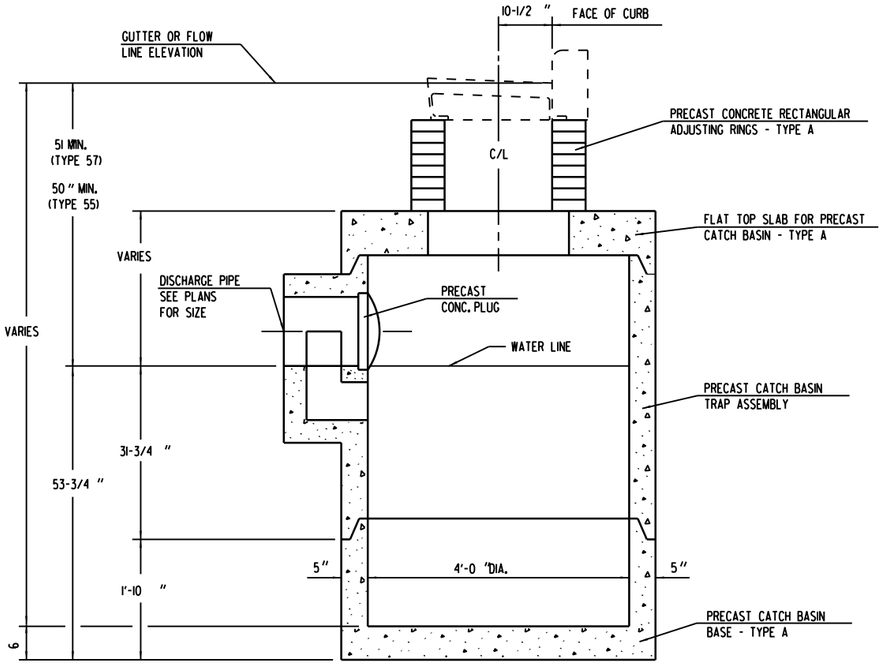
CONTINENTAL CROSSWALK DETAIL

NOTE: PAVEMENT MARKINGS SHOULD BE PARALLEL TO DIRECTION OF TRAVEL EVEN WHEN CROSSWALK IS SKEWED.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 12	E



PLAN

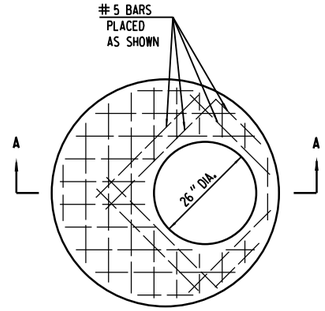


SECTION A-A

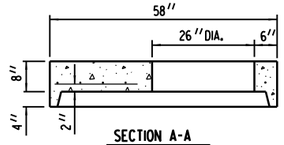
CATCH BASIN - TYPE 44A

GENERAL NOTES

1. REINFORCEMENT FOR 5 PRECAST REINFORCED CONCRETE SHALL BE 6 X 6 W16 X W16 WELDED STEEL WIRE FABRIC AND SHALL BE EMBEDDED 2 CLEAR.
2. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.
5. A PRECAST CONCRETE PLUG SHALL BE CEMENTED INTO THE OPENING AT THE INNER FACE OF THE CATCH BASIN TRAP ASSEMBLY.



PLAN



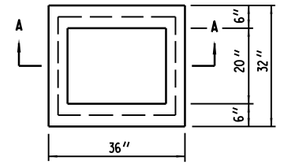
SECTION A-A

TOP SLAB - TYPE A

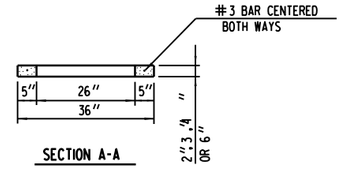
FLAT TOP SLAB SHALL BE 8 "THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



PLAN

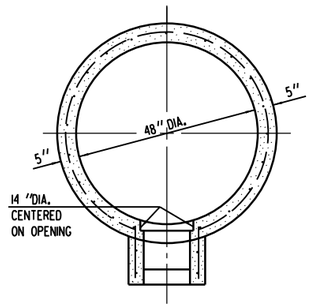


SECTION A-A

RECTANGULAR ADJUSTING RING - TYPE A

THE ADJUSTING RINGS SHALL BE 2";3 ,4 OR 6 IN"HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



SECTION A-A

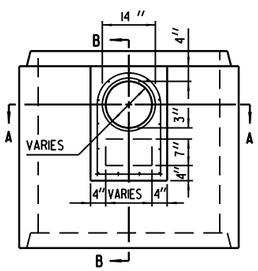
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

TRAP ASSEMBLY SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

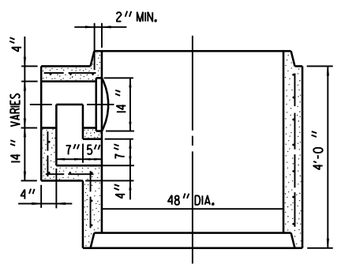
CIRCUMFERENTIAL AND TRAP ASSEMBLY REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.

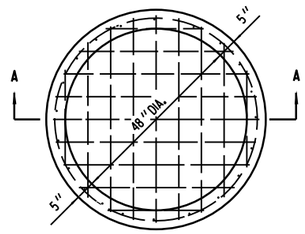


PLAN

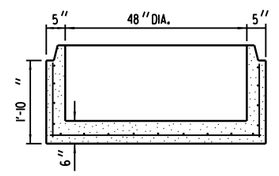


SECTION B-B

TRAP ASSEMBLY



PLAN



SECTION A-A

BASE ASSEMBLY

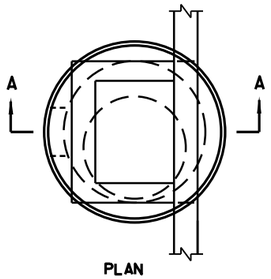
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

BOTTOM SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SLAB.

CIRCUMFERENTIAL AND BOTTOM SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.J.

TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



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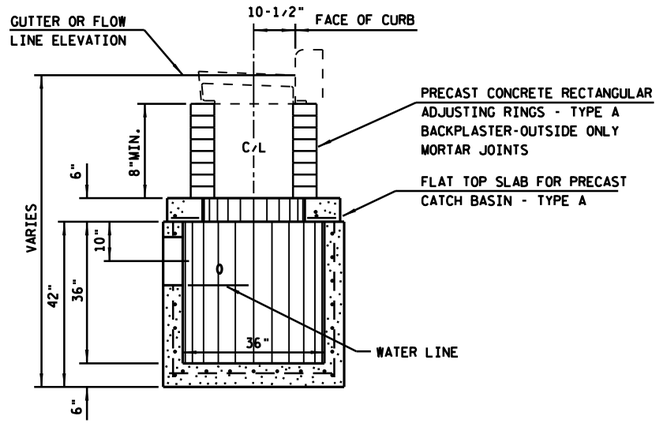


SECTION A-A

CATCH BASIN - TYPE 45A

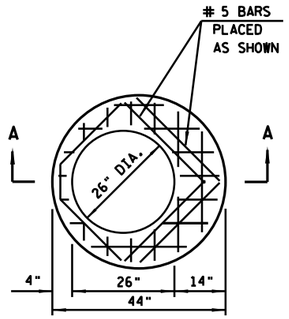
GENERAL NOTES

1. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.

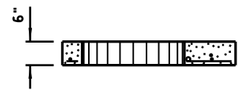
2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST 1" CLEAR.

3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.



PLAN



SECTION A-A

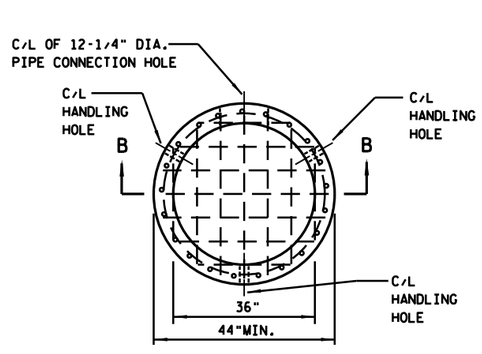
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH 1" CLEAR COVER.

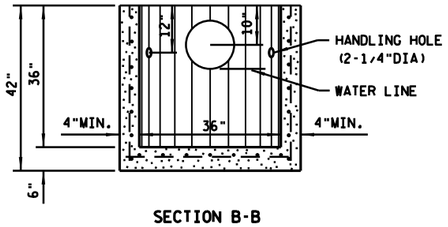
ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

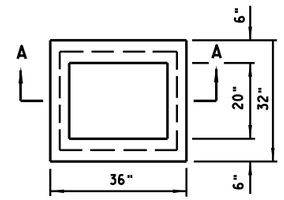
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



RISER SECTION WITH INTEGRAL BASE PLAN



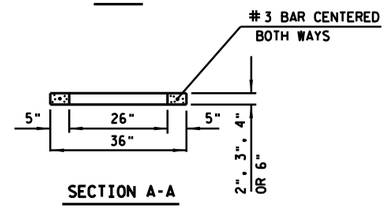
SECTION B-B



THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

PLAN



SECTION A-A

RECTANGULAR ADJUSTING RING - TYPE A

CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTON SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SQ. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

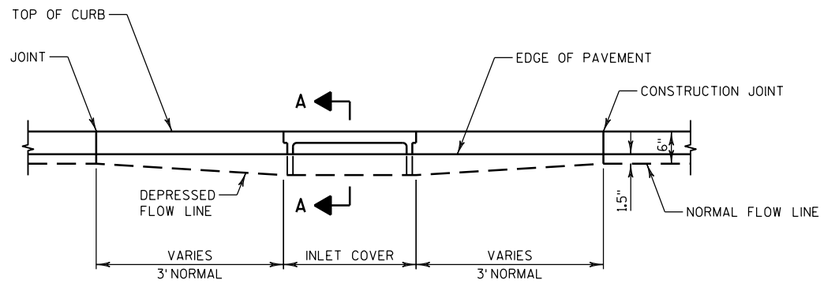
TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE 12-1/4" IN DIAMETER SHALL BE CAST OR CORED IN THE RISER SECTION AT THE LOCATIONS SHOWN. LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

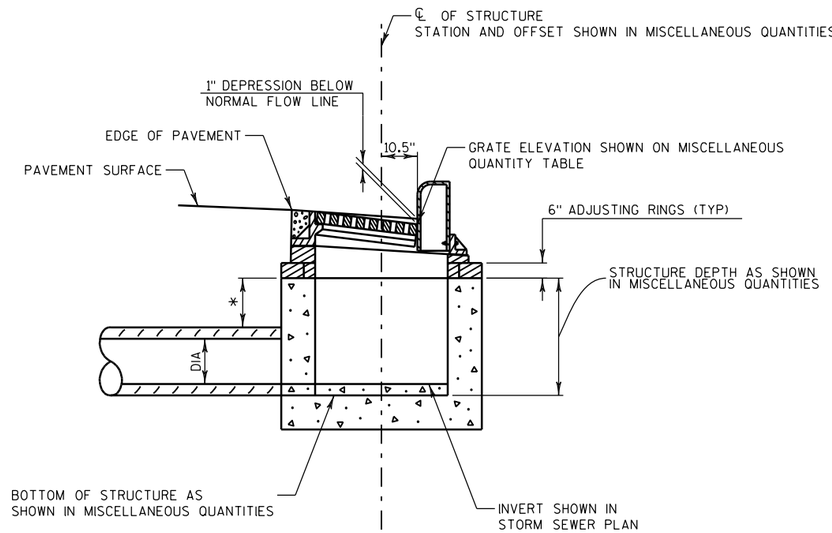
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

2



ELEVATION

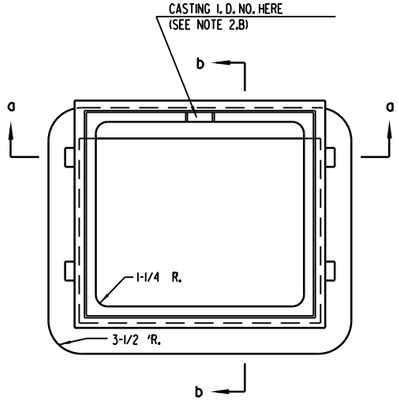


SECTION A-A

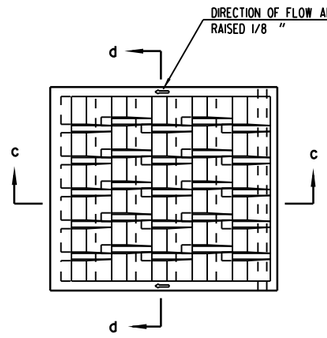
DETAIL OF CURB AND GUTTER AT INLETS

* IF LESS THAN 4-INCHES, INLET OR MANHOLE TO BE CAST IN PLACE

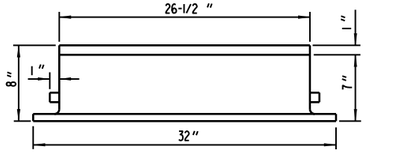
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 15	E

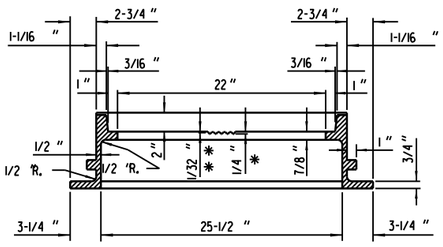


FRAME

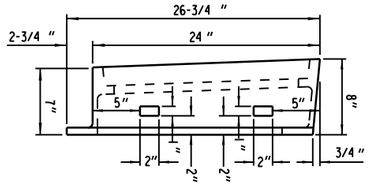


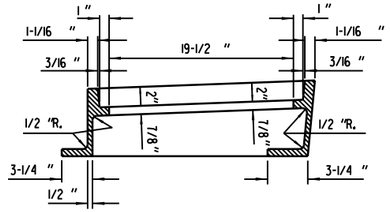
GRATE



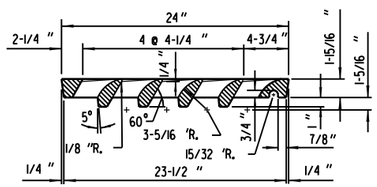


SECTION a-a

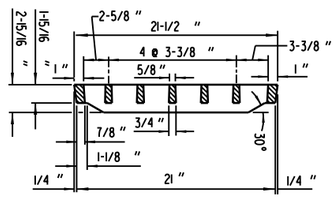




SECTION b-b



SECTION c-c



SECTION d-d

* DEPRESSION FOR LETTERS

* * CLEARANCE FROM TOP OF LETTERS TO FACE OF SEAT

GENERAL NOTES

1. ALL EDGES ARE TO BE GROUND
2. ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8-inch

ON THE FRAME

a) ON THE UPPER FACE OF THE FLANGE IN 1-INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

b) ON THE SEAT OF THE FRAME IN 1-INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (51).

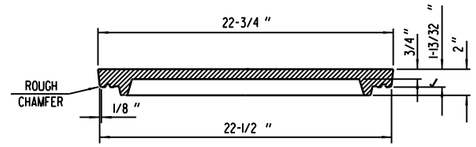
ON THE GRATE

c) ON THE UPPER SIDE OF THE GRATE IN 1-INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

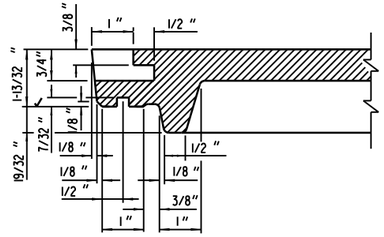
INLET COVER - TYPE MS 57

LID-145 LBS., FRAME-204 LBS.

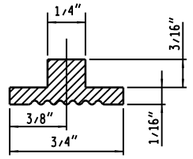
2

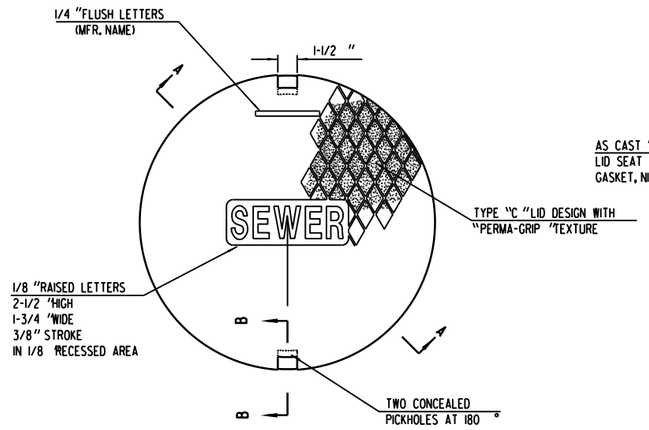


SECTION A-A

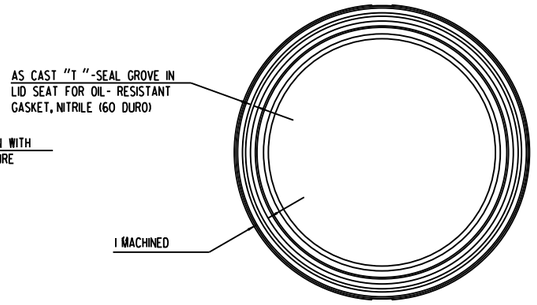


SECTION B-B





TOP VIEW



BOTTOM VIEW

MANHOLE COVER - TYPE ms 58-A

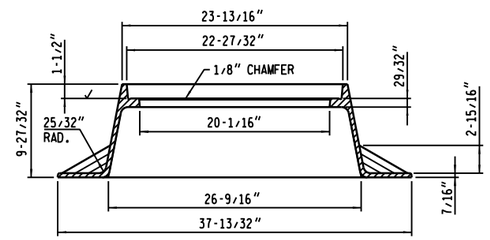
LID - 107 LBS.

NOTE:

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8 HAVING A DIGIT OR LETTER HEIGHT OF ONE INCH ON LOWER FACE OF LID:

1. THE INITIALS OR MONOGRAM OF THE FOUNDRY.
2. THE CONTRACT NUMBER AND YEAR MADE.
3. THE CASTING IDENTIFICATION NUMBER.
4. THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

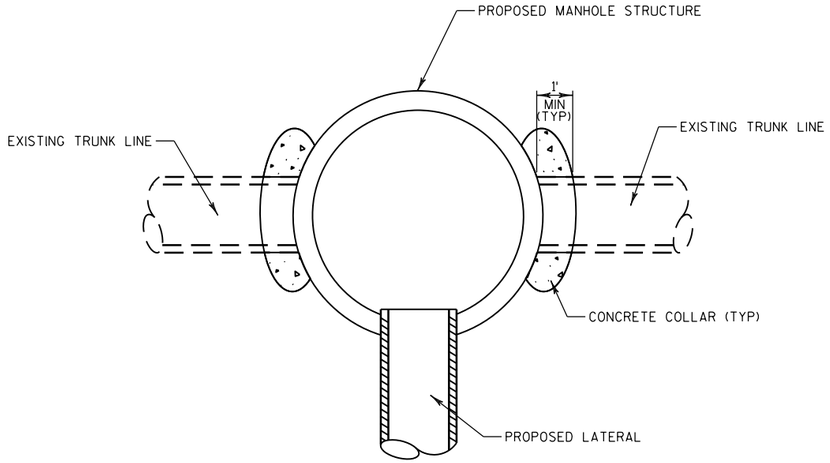
NOTE: ALL EXTERIOR EDGES SHALL BE GROUND.



MANHOLE FRAME - TYPE MS 21

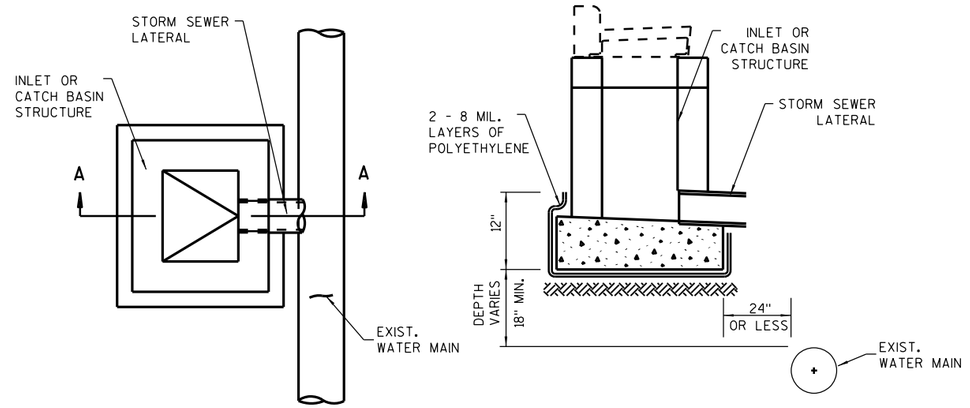
FRAME - 182 LBS.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 17	E



PROPOSED MANHOLE CONNECTION TO EXISTING TRUNK LINE

ALL COSTS OF REMOVING PIPE, MATERIAL, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO MAKE THE CONNECTION SHALL BE INCIDENTAL TO THE BID ITEM OF MANHOLE TYPE 4 OR MANHOLE TYPE 5

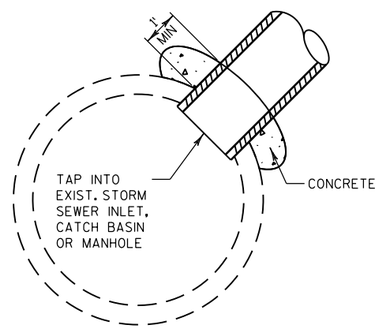


PLAN VIEW

SECTION A-A

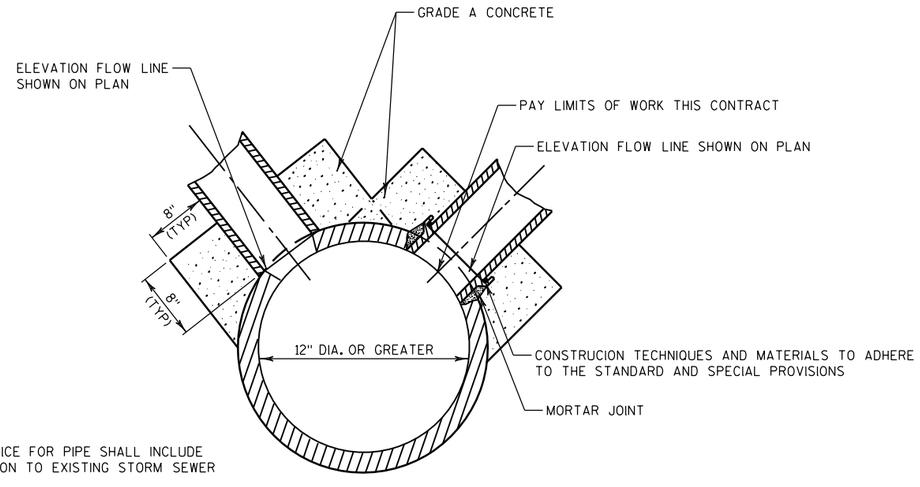
WATER MAIN PROTECTION

INSTALL ON ALL CATCH BASINS OR INLETS WITH LESS THAN 24" HORIZONTAL OUT-TO-OUT CLEARANCE FROM STRUCTURE TO WATER MAIN



PROPOSED STORM SEWER CONNECTION TO EXISTING STRUCTURE DETAIL

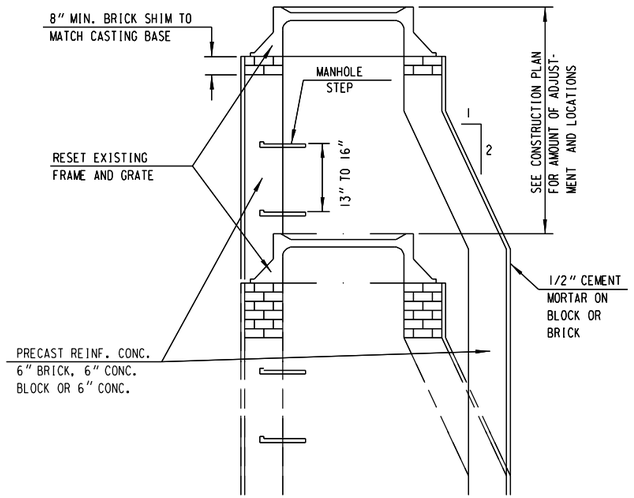
ALL COSTS OF MATERIAL, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO MAKE THE CONNECTION SHALL BE INCIDENTAL TO THE BID ITEM OF STORM SEWER PIPE



NOTE:

CONTRACT UNIT PRICE FOR PIPE SHALL INCLUDE COST OF CONNECTION TO EXISTING STORM SEWER OR MANHOLE

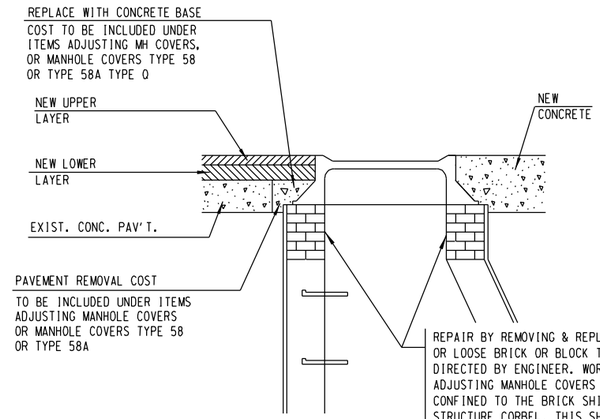
DETAIL OF CONNECTION TO EXISTING STORM SEWER



CORBEL MAY BE REVERSED
STRAIGHT SIDE LEANED
SLIGHTLY TO CLEAR CURB HEAD.

REPAIR BY REMOVING AND REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO THE DEPTH AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. DEPTHS AS INDICATED ON PLAN ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

RECONSTRUCTING MANHOLES



REPAIR BY REMOVING & REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO DEPTH AS DIRECTED BY ENGINEER. WORK UNDER ADJUSTING MANHOLE COVERS SHALL BE CONFINED TO THE BRICK SHIMMING ABOVE THE STRUCTURE CORBEL. THIS SHIMMING SHALL NOT EXCEED 1 FOOT BETWEEN THE TOP OF THE CORBEL AND THE FRAME BOTTOM. ANY WORK MORE EXTENSIVE THAN DESCRIBED IMMEDIATELY ABOVE SHALL BE CONSTRUED AS WORK UNDER RECONSTRUCTING MANHOLES. DEPTHS OF BRICK-WORK TO BE REPAIRED, AS INDICATED ON THE PLAN, ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

ADJUSTING MANHOLE COVERS
OR MANHOLE COVERS TYPE 58A

CONSTRUCTION NOTES

1. LOCATIONS OF STRUCTURES IN CURB & GUTTER SECTIONS REFER TO FACE OF CURB.
2. LOCATIONS OF STRUCTURES NOT IN CURB AND GUTTER SECTIONS REFER TO CENTERLINE OF STRUCTURE.
3. PIPE LENGTHS GIVEN ARE APPROXIMATE OUT TO OUT OF STRUCTURE.
4. GRATE & RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET COVER OR AT CENTER-LINE OF MANHOLE COVER.
5. WHEN NEW COVERS ARE PLACED, THE FIRST 12" OF ADJUSTMENT OR REPAIRING SHALL BE INCLUDED IN THE COST OF THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK 12" OR LESS WILL BE PAID AS ADJUSTING COVERS WHEN RESETTING EXISTING COVERS, ANY ADJUSTMENT OR REPAIR OF BRICKWORK MORE THAN 12" WILL BE PAID AS A RECONSTRUCT.
6. MANHOLE ADJUSTMENTS IN ASPHALTIC PAVEMENT WILL BE MADE AFTER THE LOWER LAYER IS PLACED.
7. WHEN CONSTRUCTING CONCRETE CURB ADJACENT TO INLET COVER TYPE 57, TWO (2) DEFORMED TIE BARS SHALL BE PLACED LONGITUDINALLY THROUGH THE CURB SECTION AND EXTENDED ONE (1) FOOT BEYOND EACH SIDE OF THE FRAME. A DUMMY JOINT SHALL BE CUT IN THE CURB AT EACH SIDE OF THE FRAME.

2

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

2

N. 27TH STREET

VL+90.00, 32.28'LT
92.67

VL+18.00, 32.28'LT
93.08

0.4%

BUS STOP

1.5%

5.7'

2'

VL+90.00, 26.58'LT
92.65

VL+90.00, 24.00'LT
92.64 (TC)

VL+18.00, 26.58'LT
92.99

VL+18.00, 24.00'LT
92.96 (TC)

11VL

R/L VLIET STREET

W. VLIET STREET

NOTE:

* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\102-38-A100_cr.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N. 26TH STREET

VL+83.65, 39.50'LT 97.42
VL+83.66, 33.50'LT 97.12
VL+78.65, 39.49'LT 97.50
VL+90.00, 39.58'LT 96.74 (G), 97.24 (TC)
VL+78.66, 33.49'LT 97.20
VL+83.67, 32.08'LT 97.11
VL+74.34, 33.47'LT 97.24
VL+88.16, 32.08'LT 96.89
97.24 EX
VL+89.99, 32.08'LT 96.86 (G)
VL+61.68, 33.44'LT 97.03
VL+91.99, 32.08'LT 96.94 (F)
CURB RAMP TYPE 2
VL+90.95, 27.08'LT 96.92 (F)
VL+88.80, 27.08'LT 96.84 (G)
VL+61.66, 24.58'LT 96.94
VL+74.32, 24.59'LT 97.11
VL+88.16, 27.08'LT 96.85
VL+83.68, 27.08'LT 97.06
VL+74.30, 18.00'LT 96.63 (G), 97.13 (TC)
VL+87.05, 20.99'LT 96.88 (F)
VL+86.10, 22.90'LT 96.80 (G), 97.05 (TC)
VL+74.30, 19.24'LT 96.75
VL+83.77, 20.82'LT 96.79 (G), 97.04 (TC)
VL+79.32, 24.60'LT 97.06
VL+74.30, 18.00'LT 96.73 (G)
VL+79.30, 19.24'LT 96.79
VL+74.30, 16.00'LT 96.81 (F)
CURB RAMP TYPE 3 MODIFIED
VL+79.31, 18.63'LT 96.77 (G)
VL+79.31, 16.55'LT 96.85 (F)

14VL

10NS

W. VLIET STREET

VL+29.10, 32.08'LT 97.40
VL+29.08, 39.08'LT 97.81
VL+25.86, 32.08'LT 97.21
VL+35.58, 39.08'LT 97.91
PEDESTRIAN CURB
VL+41.53, 32.08'LT 97.98 (TC) 97.59 (W)
VL+24.01, 33.58'LT 97.17 (G), 97.67 (TC)
VL+35.60, 32.08'LT 97.99 (TC) 97.49 (W)
VL+46.53, 32.08'LT 98.01 (TC) 97.67 (W)
VL+24.04, 32.08'LT 97.18 (G)
97.99 EX
VL+22.04, 32.08'LT 97.26 (F)
CURB RAMP TYPE 2
VL+54.53, 32.08'LT 98.02
VL+23.08, 27.08'LT 97.30 (F)
VL+54.52, 27.08'LT 97.94
VL+25.23, 27.08'LT 97.22 (G)
VL+25.87, 27.08'LT 97.23
VL+46.52, 27.08'LT 97.61
VL+26.68, 24.46'LT 97.27 (G), 97.52 (TC)
VL+41.52, 27.08'LT 97.53
VL+29.11, 27.08'LT 97.34
VL+50.49, 18.00'LT 97.43 (G), 97.99 (TC)
VL+27.01, 20.96'LT 97.38 (F)
VL+41.49, 18.81'LT 97.44
VL+36.52, 27.08'LT 97.45
CURB RAMP TYPE 3 MODIFIED
VL+31.79, 19.85'LT 97.34 (G), 97.59 (TC)
VL+41.49, 18.00'LT 97.43 (G)
VL+36.49, 18.81'LT 97.40
VL+41.46, 16.00'LT 97.51 (F)
VL+36.54, 16.18'LT 97.47 (F)
VL+36.49, 18.21'LT 97.39 (G)

VL+74.20, 16.20'RT 96.80 (F)
VL+79.19, 17.49'RT 96.86 (F)
VL+74.20, 18.22'RT 96.72 (G)
VL+79.19, 19.65'RT 96.78 (G)
VL+74.19, 20.29'RT 96.75
VL+79.19, 20.29'RT 96.79
CURB RAMP TYPE 3 MODIFIED
VL+79.19, 19.65'RT 96.79 (G), 97.04 (TC)
VL+65.81, 18.00'RT 96.59 (G), 97.09 (TC)
VL+79.18, 24.58'RT 96.91
VL+74.18, 24.58'RT 96.93
VL+86.81, 22.46'RT 96.94 (F)
VL+60.05, 24.58'RT 96.93
VL+85.46, 23.95'RT 96.81 (G), 97.06 (TC)
VL+60.05, 32.08'RT 97.04
VL+84.36, 25.83'RT 96.99
VL+87.10, 25.83'RT 96.88 (G)
VL+89.56, 25.83'RT 96.96 (F)
CURB RAMP TYPE 2
VL+92.03, 30.83'RT 96.97 (F)
97.28 EX
VL+89.90, 30.83'RT 96.89 (G)
VL+74.16, 32.08'RT 97.04
VL+86.36, 30.83'RT 96.93
VL+79.16, 31.47'RT 97.01
VL+84.36, 30.83'RT 96.99
VL+79.15, 37.07'RT 97.20
VL+85.14, 42.08'RT 97.28
VL+79.14, 42.08'RT 97.37

R/L 26TH STREET

VL+36.39, 17.09'RT 97.47 (F)
VL+36.39, 19.83'RT 97.39 (G)
VL+32.79, 20.94'RT 97.31 (G), 97.64 (TC)
VL+36.37, 25.83'RT 97.75
VL+34.85, 25.83'RT 97.73
VL+30.09, 22.92'RT 97.29 (G), 97.50 (TC)
VL+27.69, 22.42'RT 97.40 (F)
VL+28.10, 25.83'RT 97.31
VL+27.36, 25.83'RT 97.30 (G)
VL+24.90, 25.83'RT 97.38 (F)
CURB RAMP TYPE 2
VL+22.43, 30.84'RT 97.34 (F)
VL+24.56, 30.83'RT 97.24 (G)
VL+23.23, 37.95'RT 97.17 (G) 97.67 (TC)
VL+28.10, 30.83'RT 97.29

R/L VLIET STREET

VL+41.39, 16.08'RT 97.54 (F)
VL+41.39, 18.08'RT 97.46 (G)
VL+41.39, 19.83'RT 97.49
CURB RAMP TYPE 2 MODIFIED
VL+50.39, 18.00'RT 97.56 (G), 98.06 (TC)
VL+41.37, 25.83'RT 97.83
VL+54.23, 27.42'RT 98.16
VL+54.23, 32.46'RT 98.23
98.12 EX
VL+41.36, 30.83'RT 97.86
VL+34.83, 30.83'RT 97.76
VL+34.81, 39.33'RT 98.07
VL+39.83, 30.83'RT 97.84
VL+39.81, 39.33'RT 98.14

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 21 E

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

VL+58.75, 42.50' LT 99.60
VL+55.36, 42.50' LT 99.65
VL+58.75, 37.50' LT 99.52
VL+55.37, 37.50' LT 99.67
VL+58.75, 32.50' LT 99.61
VL+54.45, 32.08' LT 99.67
VL+49.45, 32.08' LT 99.63
VL+44.45, 32.05' LT 99.60
99.68 EX
VL+63.75, 42.50' LT 99.52
VL+69.20, 42.50' LT 98.98 (G), 99.48 (TC)
VL+63.75, 37.50' LT 99.44
VL+67.07, 37.50' LT 99.21
VL+69.13, 37.50' LT 99.18 (G)
VL+71.14, 37.50' LT 99.26 (F)
CURB RAMP TYPE 3 MODIFIED
VL+69.91, 32.50' LT 99.40 (F)
VL+67.72, 32.50' LT 99.32 (G)
VL+67.07, 32.50' LT 99.33
VL+63.75, 32.50' LT 99.49
VL+44.45, 27.08' LT 99.52
VL+43.45, 24.00' LT 99.39 (G), 99.89 (TC)
VL+49.45, 27.08' LT 99.55
VL+49.45, 24.59' LT 99.52
VL+49.45, 24.00' LT 99.51 (G)
VL+49.45, 22.00' LT 99.59 (F)
CURB RAMP TYPE 3
VL+54.45, 27.09' LT 99.59
VL+54.45, 24.59' LT 99.56
VL+54.45, 24.00' LT 99.55 (G)
VL+54.45, 22.00' LT 99.63 (F)
VL+66.23, 26.98' LT 99.57 (F)
N. 25TH STREET
W. VLIET STREET
10NSB
VL+49.47, 22.00' RT 99.59 (F)
VL+49.47, 24.00' RT 99.51 (G)
VL+49.47, 24.76' RT 99.52
VL+49.47, 27.42' RT 99.65
VL+54.47, 22.15' RT 99.63 (F)
VL+54.47, 24.17' RT 99.55 (G)
VL+54.46, 24.76' RT 99.56
VL+54.47, 27.42' RT 99.71
CURB RAMP TYPE 3 MODIFIED
VL+18.47, 24.00' RT 99.39 (TC)
VL+43.47, 24.00' RT 99.39 (G), 99.89 (TC)
VL+15.47, 27.42' RT 99.40
VL+43.47, 27.42' RT 99.92
VL+59.93, 27.42' RT 99.68 (W), 100.06 (TC)
VL+61.40, 28.55' RT 99.67 (W), 100.06 (TC)
VL+64.25, 26.99' RT 99.63 (F)
VL+61.39, 32.50' RT 99.65
VL+65.08, 32.50' RT 99.39
VL+65.73, 32.50' RT 99.38 (G)
VL+67.92, 32.50' RT 99.42 (F)
BUS STOP
VL+43.47, 32.42' RT 99.97
VL+49.47, 32.50' RT 99.73
99.73 EX
VL+15.47, 32.42' RT 99.48
CURB RAMP TYPE 3 MODIFIED
VL+69.15, 37.50' RT 99.35 (F)
VL+67.14, 37.51' RT 99.31 (G)
VL+65.11, 37.50' RT 99.34
VL+61.38, 37.50' RT 99.60
VL+67.21, 42.50' RT 99.08 (G), 99.58 (TC)
VL+54.47, 32.42' RT 99.73
VL+55.39, 32.42' RT 99.72
VL+55.38, 37.50' RT 99.72
VL+55.37, 42.50' RT 99.75
VL+61.37, 42.50' RT 99.66

VL+06.35, 42.50' LT 99.79
VL+12.28, 42.50' LT 99.87
VL+06.36, 37.50' LT 99.56
VL+03.33, 37.50' LT 99.39
VL+01.30, 37.50' LT 99.36 (G)
VL+99.27, 37.50' LT 99.44 (F)
VL+11.79, 37.50' LT 99.63 (W), 100.00 (TC)
VL+11.79, 32.50' LT 99.63 (W), 100.08 (TC)
VL+11.79, 31.58' LT 99.63 (W), 100.08 (TC)
VL+14.56, 31.58' LT 99.79 (W), 100.09 (TC)
100.10 EX
CURB RAMP TYPE 3 MODIFIED
VL+19.56, 32.08' LT 99.88 (W), 100.13 (TC)
VL+27.56, 32.08' LT 100.35
VL+55.54, 32.08' LT 100.52
VL+00.50, 32.50' LT 99.54 (F)
VL+02.68, 32.50' LT 99.46 (G)
VL+03.33, 32.50' LT 99.47
VL+06.36, 32.50' LT 99.56
VL+04.19, 26.98' LT 99.70 (F)
VL+06.36, 29.16' LT 99.59 (W), 100.13 (TC)
VL+09.02, 27.08' LT 99.62 (W), 100.21 (TC)
VL+11.79, 27.08' LT 99.65
VL+14.54, 27.08' LT 99.77
VL+14.53, 24.68' LT 99.74
VL+14.53, 24.09' LT 99.73 (G)
VL+14.53, 22.08' LT 99.81 (F)
CURB RAMP TYPE 3 MODIFIED
BUS STOP
VL+27.54, 27.07' LT 100.30
VL+27.53, 24.00' LT 99.78 (G), 100.28 (TC)
VL+19.54, 27.08' LT 99.81
VL+19.53, 24.68' LT 99.75
VL+19.53, 24.00' LT 99.74 (G)
VL+19.53, 22.00' LT 99.82 (F)
VL+55.54, 24.00' LT 100.41 (TC)
VL+55.54, 27.08' LT 100.44
R/L VLIET STREET
VL+14.36, 22.43' RT 99.80 (F)
VL+14.36, 24.49' RT 99.72 (G)
VL+14.36, 25.10' RT 99.73
VL+14.35, 27.10' RT 99.76
R/L 25TH STREET
VL+10.98, 27.09' RT 99.74 (W), 100.16 (TC)
VL+06.57, 26.58' RT 99.71 (F)
VL+07.82, 29.71' RT 99.71 (W), 100.12 (TC)
VL+07.81, 32.50' RT 99.68
VL+05.31, 32.50' RT 99.58
VL+04.66, 32.50' RT 99.57 (G)
VL+02.47, 32.50' RT 99.65 (F)
CURB RAMP TYPE 3 MODIFIED
VL+19.36, 22.00' RT 99.83 (F)
VL+19.36, 24.00' RT 99.75 (G)
VL+19.36, 25.12' RT 99.77
VL+19.35, 27.08' RT 99.78
VL+29.35, 24.00' RT 99.79 (G), 100.29 (TC)
VL+29.35, 27.08' RT 100.27
VL+29.35, 32.08' RT 100.34
VL+19.33, 32.08' RT 100.24 (TC), 99.86 (W)
VL+13.31, 32.08' RT 100.14 (TC), 99.77 (W)
VL+14.33, 32.14' RT 100.16 (TC), 99.79 (W)
CURB RAMP TYPE 3 MODIFIED
VL+01.24, 37.50' RT 99.60 (F)
VL+03.25, 37.50' RT 99.52 (G)
VL+05.31, 37.50' RT 99.55
VL+07.80, 37.50' RT 99.68
VL+03.20, 44.50' RT 99.45 (G), 99.95 (TC)
VL+12.81, 32.50' RT 100.14 (TC), 99.76 (W)
VL+12.80, 37.50' RT 100.16 (TC), 99.76 (W)
VL+07.78, 47.06' RT 100.22
VL+12.78, 47.06' RT 100.24

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Sheets\63342_CRD02.dgn PLOT DATE : 7/7/2022 10:23:40 AM PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

WISDOT/CADDS SHEET 42

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

VL+76.59, 44.02' LT
102.09

VL+81.59, 44.01' LT
102.09

VL+82.17, 44.01' LT
101.59 (G), 102.09 (TC)

VL+82.16, 36.58' LT
101.75 (G)

VL+08.76, 43.98' LT
102.36

VL+08.17, 43.98' LT
101.86 (G), 101.36 (TC)

VL+13.83, 43.98' LT
102.47

VL+13.83, 36.58' LT
102.03 (W), 102.53 (TC)

VL+76.57, 31.58' LT
101.89 (W), 102.39 (TC)

VL+76.08, 36.58' LT
101.82 (W), 102.28 (TC)

VL+71.08, 32.08' LT
101.97 (W), 102.40 (TC)

PEDESTRIAN CURB

VL+84.16, 36.57' LT
101.83 (F)

VL+08.16, 36.58' LT
101.95 (G)

VL+13.83, 31.58' LT
102.09 (W), 102.59 (TC)

VL+22.52, 32.08' LT
102.52 (W), 102.78 (TC)

PEDESTRIAN CURB

VL+66.08, 32.08' LT
102.19 (W), 102.37 (TC)

VL+61.08, 32.08' LT
102.32

VL+27.52, 32.08' LT
102.60 (W), 102.81 (TC)

VL+32.52, 32.08' LT
102.84

CURB RAMP TYPE 7A MODIFIED

CURB RAMP TYPE 7A MODIFIED

VL+06.16, 36.58' LT
102.03 (F)

VL+06.22, 31.58' LT
102.09 (F)

VL+84.10, 31.57' LT
101.90 (F)

VL+82.09, 31.58' LT
101.82 (G)

VL+08.23, 31.58' LT
102.01 (G)

VL+80.30, 27.08' LT
101.85 (G), 101.90 (TC)

VL+10.02, 27.08' LT
102.08 (G), 102.10 (TC)

VL+79.49, 24.46' LT
101.86 (G), 102.11 (TC)

VL+10.83, 24.46' LT
102.12 (G), 102.37 (TC)

VL+76.58, 27.08' LT
101.96

VL+11.13, 20.99' LT
102.23 (F)

VL+61.07, 27.08' LT
102.25

VL+66.07, 27.08' LT
102.12

VL+79.17, 20.97' LT
101.96 (F)

VL+13.83, 27.08' LT
102.16

VL+71.07, 27.08' LT
102.04

VL+32.56, 27.08' LT
102.77

VL+27.56, 27.08' LT
102.53

VL+66.06, 18.00' LT
101.85 (G), 102.35 (TC)

VL+75.58, 20.59' LT
101.90 (G), 102.15 (TC)

VL+17.74, 19.01' LT
102.24 (G), 102.49 (TC)

VL+35.61, 18.00' LT
102.35 (G), 102.85 (TC)

VL+66.06, 19.12' LT
101.94

VL+71.06, 18.52' LT
101.95 (G)

VL+22.56, 27.08' LT
102.45

CURB RAMP TYPE 3 MODIFIED

CURB RAMP TYPE 3

VL+71.05, 16.45' LT
102.03 (F)

VL+22.61, 18.59' LT
102.32

VL+27.61, 18.58' LT
102.35

VL+66.06, 18.00' LT
101.93 (G)

VL+22.61, 18.01' LT
102.31 (G)

VL+27.61, 18.00' LT
102.34 (G)

VL+66.05, 16.00' LT
102.01 (F)

VL+22.61, 16.01' LT
102.39 (F)

VL+27.61, 16.00' LT
102.42 (F)

W. VLIET STREET

N. 24TH PLACE

R/L 24TH PLACE

R/L VLIET STREET

VL+71.01, 16.00' RT
102.13 (F)

VL+71.01, 18.00' RT
102.05 (G)

VL+22.85, 18.29' RT
102.51 (F)

VL+27.84, 16.37' RT
102.52 (F)

VL+76.28, 18.83' RT
102.09 (G), 102.34 (TC)

VL+22.87, 20.64' RT
102.43 (G)

VL+27.85, 18.42' RT
102.44 (G)

VL+66.01, 16.00' RT
102.10 (F)

VL+71.00, 27.08' RT
102.45

VL+21.66, 19.04' RT
102.51

VL+27.87, 21.32' RT
102.48

VL+74.50, 27.08' RT
102.45

VL+20.58, 22.58' RT
102.43 (G), 102.68 (TC)

VL+27.91, 27.08' RT
102.67

VL+66.01, 18.00' RT
102.02 (G)

VL+83.35, 20.94' RT
102.23 (F)

VL+22.91, 27.08' RT
102.60

VL+35.82, 18.00' RT
102.46 (G), 102.96 (TC)

VL+66.01, 18.00' RT
101.95 (G), 102.45 (TC)

VL+82.46, 22.90' RT
102.12 (G), 102.37 (TC)

VL+19.04, 24.46' RT
102.42 (G), 102.67 (TC)

VL+32.92, 27.08' RT
102.92

VL+66.00, 27.08' RT
102.45

VL+79.50, 27.08' RT
102.38

VL+17.59, 27.08' RT
102.41 (G)

VL+32.95, 32.08' RT
103.05

VL+53.51, 27.08' RT
102.40

VL+85.15, 27.08' RT
102.20 (G)

VL+15.43, 27.08' RT
102.49 (F)

VL+86.91, 25.61' RT
102.20

VL+87.31, 27.08' RT
102.28 (F)

CURB RAMP TYPE 2

CURB RAMP TYPE 2

VL+88.34, 32.08' RT
102.32 (F)

VL+14.40, 32.08' RT
102.49 (F)

VL+16.40, 32.08' RT
102.41 (G)

VL+86.34, 32.08' RT
102.24 (G)

VL+18.22, 32.08' RT
102.43

VL+84.50, 32.08' RT
102.26

VL+16.96, 33.58' RT
102.40 (G), 102.90 (TC)

VL+86.37, 33.58' RT
102.25 (G), 102.75 (TC)

VL+22.95, 32.08' RT
102.67

103.05 EX

VL+28.45, 32.08' RT
102.75 (W), 103.02 (TC)

VL+53.51, 32.08' RT
102.47

VL+65.99, 32.08' RT
102.52

VL+70.99, 32.08' RT
102.52

VL+74.53, 32.08' RT
102.52

VL+74.57, 37.08' RT
102.72

VL+79.53, 32.08' RT
102.45

VL+79.56, 37.08' RT
102.65

VL+23.00, 40.08' RT
103.08

VL+28.00, 40.08' RT
103.15

PEDESTRIAN CURB

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Electronic Product\10_Sheets\24x36\03_cr.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

2

24TH STREET NW CURB TRANSITION DETAIL

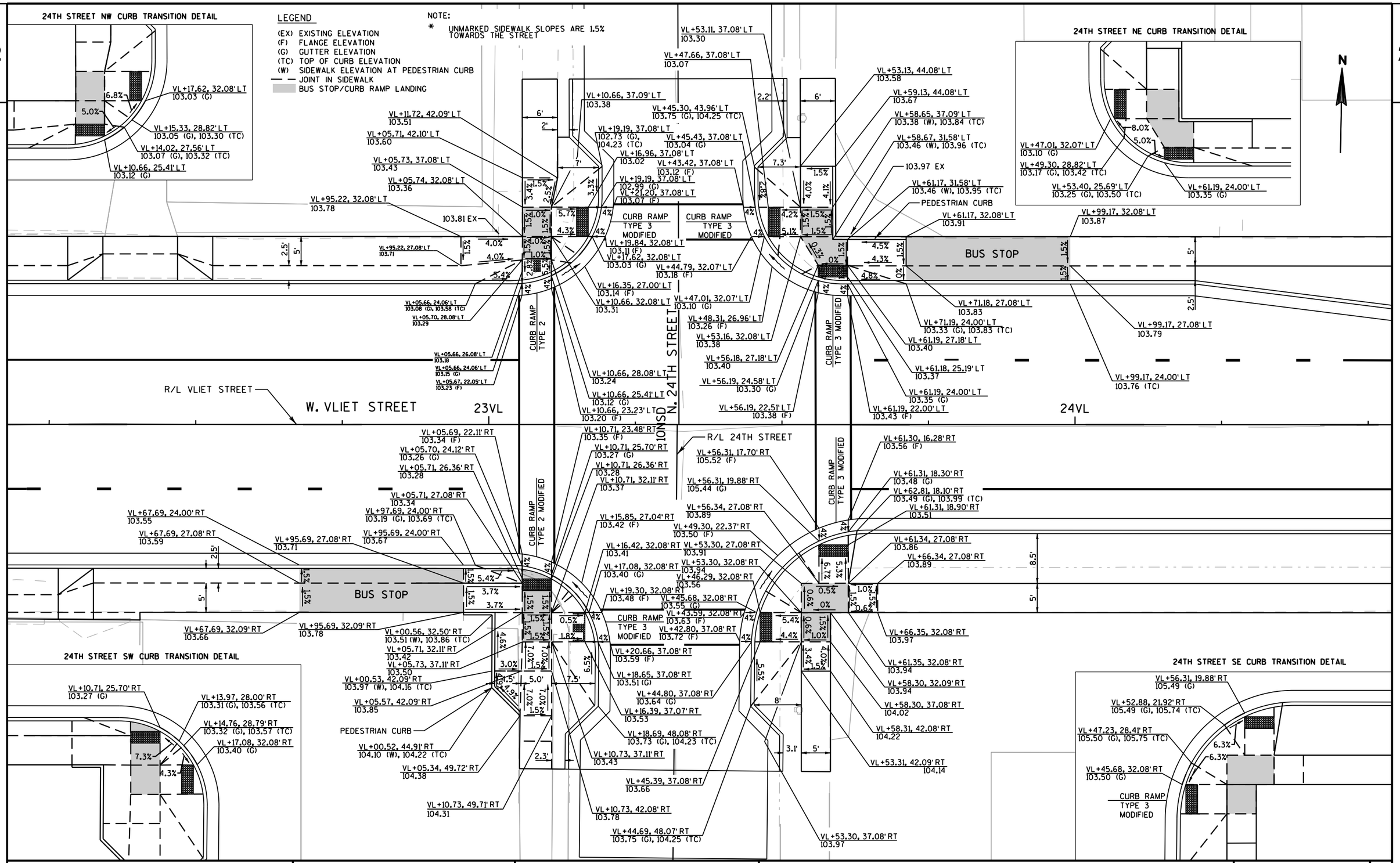
LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

24TH STREET NE CURB TRANSITION DETAIL

N



24TH STREET SW CURB TRANSITION DETAIL

24TH STREET SE CURB TRANSITION DETAIL

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2023-12-13 CADS\D12104_cr.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 15:1

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

VL+03.02, 32.08' LT
104.99

VL+09.02, 32.08' LT
104.98

VL+03.02, 27.08' LT
104.92

VL+09.02, 27.08' LT
104.91

CURB RAMP TYPE 3

1.5%
0.2%
1.5%
0.2%

5'

8.5'

6.4%
6.6%

VL+01.52, 18.00' LT
104.37 (G), 104.87 (TC)

VL+10.52, 18.00' LT
104.34 (G), 104.84 (TC)

4.0%
4.0%

VL+03.02, 18.58' LT
104.38

VL+09.02, 18.58' LT
104.85

VL+03.02, 18.00' LT
104.37 (G)

VL+09.02, 18.00' LT
104.35 (G)

VL+03.02, 16.00' LT
104.45 (F)

VL+09.02, 16.00' LT
104.43 (F)

27VL

VL+03.87, 16.00' RT
104.44 (F)

VL+09.87, 16.00' RT
104.42 (F)

VL+03.87, 18.00' RT
104.36 (G)

VL+09.87, 18.00' RT
104.34 (G)

VL+03.87, 18.58' RT
104.38

VL+09.87, 18.58' RT
104.36

VL+02.37, 18.00' RT
104.37 (G), 104.87 (TC)

VL+11.37, 18.00' RT
104.34 (G), 104.84 (TC)

4.0%
4.0%

VL+03.87, 27.08' RT
104.94

VL+09.87, 27.08' RT
104.93

VL+98.87, 27.08' RT
104.94

VL+14.87, 27.08' RT
104.91

8.5'

6.9%
6.7%

0.0%
1.5%
0.0%
1.5%
0.2%
1.5%
0.2%
1.5%
0.4%
1.5%
0.6%

5'

CURB RAMP TYPE 3

VL+98.87, 32.08' RT
105.02

VL+14.87, 32.08' RT
104.98

VL+03.87, 32.08' RT
105.02

VL+09.87, 32.08' RT
105.01

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\101208302AN04a_cPLOTTED BY : ecastellan
PLOT NAME :
PLOT SCALE : 10:1
WISDOT/CADDS SHEET 42

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

W. VLIET STREET

R/L VLIET STREET

30VL

10NSE

N. 22ND STREET

R/L 22ND STREET

CURB RAMP TYPE 3

CURB RAMP TYPE 3 MODIFIED

CURB RAMP TYPE 2 MODIFIED

BUS STOP

PEDESTRIAN CURB

105.65 EX

105.63 EX

105.89 EX

106.15 EX

VL+89.69, 45.61'LT 105.40
VL+89.61, 35.83'LT 105.23
VL+89.58, 32.08'LT 105.25
VL+85.25, 32.05'LT 105.51
VL+80.24, 32.08'LT 105.58
VL+75.24, 32.06'LT 105.69
VL+75.24, 27.08'LT 105.61
VL+80.24, 27.08'LT 105.51
VL+80.24, 24.00'LT 105.08 (G), 105.58 (TC)
VL+80.24, 18.62'LT 105.11
VL+80.24, 18.00'LT 105.10 (G)
VL+80.24, 16.00'LT 105.18 (F)
VL+95.69, 45.61'LT 105.32
VL+95.61, 35.83'LT 105.15
VL+99.21, 37.33'LT 103.89 (G), 105.39 (TC)
VL+98.42, 35.83'LT 104.94
VL+99.20, 35.83'LT 104.92 (G)
VL+01.20, 35.83'LT 105.00 (F)
VL+01.03, 30.83'LT 105.07 (F)
VL+99.02, 30.83'LT 104.99 (G)
VL+98.43, 30.83'LT 105.00
VL+98.72, 29.33'LT 104.99 (G), 105.49 (TC)
VL+95.59, 30.83'LT 105.16
VL+95.57, 27.09'LT 105.19
VL+96.15, 20.93'LT 105.13 (F)
VL+89.58, 27.08'LT 105.28
VL+85.24, 27.08'LT 105.44
VL+86.74, 18.22'LT 105.12 (G), 105.62 (TC)
VL+85.24, 18.62'LT 105.16
VL+85.24, 18.04'LT 105.14 (G)
VL+85.24, 16.03'LT 105.22 (F)
VL+36.86, 45.83'LT 105.46
VL+36.78, 35.83'LT 105.14
VL+34.34, 35.83'LT 104.99
VL+31.31, 37.33'LT 104.93 (G), 105.43 (TC)
VL+31.56, 35.83'LT 104.95 (G)
VL+29.52, 35.83'LT 105.03 (F)
VL+31.31, 30.83'LT 105.11 (F)
VL+33.64, 30.83'LT 105.03 (G)
VL+34.34, 30.83'LT 105.04
VL+36.74, 30.83'LT 105.18
VL+34.15, 27.03'LT 105.19
VL+37.00, 27.17'LT 105.14 (G), 105.39 (TC)
VL+38.13, 26.37'LT 105.17 (G), 105.42 (TC)
VL+42.70, 27.08'LT 105.29
VL+42.70, 25.02'LT 105.27
VL+42.70, 24.38'LT 105.26 (G)
VL+42.70, 22.37'LT 105.34 (F)
VL+42.86, 45.83'LT 105.55
VL+42.78, 35.83'LT 105.73 (TC) 105.23 (W)
VL+43.25, 32.08'LT 105.79 (TC) 105.29 (W)
VL+47.70, 32.08'LT 105.88 (TC) 105.37 (W)
VL+87.70, 32.08'LT 105.85
VL+59.70, 32.08'LT 105.83
VL+59.70, 27.08'LT 105.81
VL+87.70, 27.08'LT 105.85
VL+59.70, 24.00'LT 105.80
VL+55.70, 24.00'LT 105.31 (G), 105.81 (TC)
VL+87.70, 24.00'LT 105.74
VL+47.70, 27.08'LT 105.37
VL+47.70, 25.02'LT 105.31
VL+47.70, 24.00'LT 105.29 (G)
VL+47.70, 22.00'LT 105.37 (F)
VL+80.24, 22.00'RT 105.22 (F)
VL+80.24, 24.00'RT 105.14 (G)
VL+80.24, 27.08'RT 105.33
VL+73.24, 24.00'RT 105.06 (G), 105.56 (TC)
VL+73.24, 27.08'LT 105.59
VL+73.24, 32.08'LT 105.67
VL+45.24, 27.08'RT 105.25
VL+45.24, 24.00'RT 105.22 (TC)
VL+80.24, 32.08'RT 105.41
VL+85.24, 32.08'RT 105.39
VL+87.64, 32.08'RT 105.38
VL+87.62, 33.96'RT 105.40
VL+45.24, 32.08'LT 105.33
VL+85.24, 22.02'RT 105.21 (F)
VL+85.24, 24.02'RT 105.13 (G)
VL+85.24, 27.08'RT 105.32
VL+87.62, 27.68'RT 105.32
VL+91.01, 25.53'RT 105.19 (G), 105.70 (TC)
VL+91.66, 25.87'RT 105.21 (G), 105.71 (TC)
VL+92.67, 28.96'RT 105.32
VL+96.49, 27.03'RT 105.30 (F)
VL+95.56, 28.96'RT 105.24 (G)
VL+98.13, 28.96'RT 105.32 (F)
VL+00.65, 33.96'RT 105.36 (F)
VL+98.54, 33.96'RT 105.28 (G)
VL+98.99, 35.46'RT 105.35 (G), 105.85 (TC)
VL+94.76, 33.96'RT 105.34
VL+92.62, 33.96'RT 105.40
VL+87.55, 43.96'RT 105.89
VL+92.54, 43.96'RT 105.82
VL+42.69, 17.81'RT 105.50 (F)
VL+42.70, 20.01'RT 105.42 (G)
VL+42.70, 20.66'RT 105.43
VL+41.20, 20.81'RT 105.43 (G), 105.93 (TC)
VL+42.70, 27.08'RT 105.72
VL+35.94, 22.38'RT 105.45 (F)
VL+38.35, 27.08'RT 105.67
VL+38.34, 28.96'RT 105.66
VL+34.43, 27.46'RT 105.42 (G), 105.92 (TC)
VL+34.25, 28.96'RT 105.38
VL+33.58, 28.96'RT 105.37 (G)
VL+31.37, 28.96'RT 105.41 (F)
VL+29.80, 33.96'RT 105.41 (F)
VL+31.84, 33.96'RT 105.37 (G)
VL+34.24, 33.96'RT 105.40
VL+38.29, 33.96'RT 105.64
VL+38.22, 42.56'RT 105.99
VL+38.22, 42.56'RT 106.07
VL+47.69, 16.32'RT 105.53 (F)
VL+47.69, 18.35'RT 105.45 (G)
VL+49.20, 18.12'RT 105.46 (G), 105.96 (TC)
VL+47.70, 20.65'RT 105.48
VL+47.70, 27.08'RT 105.78
VL+52.70, 27.08'RT 105.95
VL+52.70, 32.08'RT 106.03
VL+47.70, 32.08'RT 106.08 (TC) 105.85 (W)
VL+43.31, 32.08'RT 106.06 (TC) 105.78 (W)
VL+43.29, 33.96'RT 106.10 (TC) 105.71 (W)
VL+43.25, 38.96'RT 106.19 (TC) 106.06 (W)
VL+43.22, 42.56'RT 106.14

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\10_Details\22M05_cr01.dgn PLOT DATE : 7/6/2022 10:04:51 AM PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

2

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

VL+22.54, 47.58'LT
106.48
VL+22.53, 34.58'LT
105.97 (W), 106.47 (TC)
VL+22.53, 32.08'LT
105.95 (W), 106.45 (TC)
VL+20.52, 32.08'LT
105.99 (W), 106.49 (TC)
106.75 EX
VL+00.52, 32.08'LT
106.85
VL+28.54, 47.58'LT
106.40
VL+28.53, 34.58'LT
105.89
VL+30.61, 34.58'LT
105.80
VL+33.02, 36.08'LT
105.76 (G), 106.26 (TC)
VL+32.82, 34.58'LT
105.77 (G)
VL+34.84, 34.58'LT
105.85 (F)
VL+69.70, 46.58'LT
106.45
VL+69.70, 34.58'LT
105.86
VL+67.362, 34.58'LT
105.79
VL+65.41, 34.58'LT
105.77 (G), 106.27 (TC)
VL+65.41, 34.58'LT
105.76 (G)
VL+63.38, 34.58'LT
105.84 (F)
VL+75.70, 46.58'LT
106.54
VL+75.70, 34.58'LT
106.44 (TC)
105.94 (W)
VL+75.80, 32.08'LT
105.90 (W), 106.40 (TC)
VL+77.20, 32.08'LT
105.88 (W), 106.38 (TC)
VL+92.20, 32.08'LT
106.50
106.65 EX
CURB RAMP TYPE 2 MODIFIED
CURB RAMP TYPE 2 MODIFIED
N. 21ST STREET
VL+33.44, 29.58'LT
105.85 (F)
VL+31.26, 29.58'LT
105.77 (G)
VL+28.53, 29.58'LT
105.89
VL+29.80, 26.97'LT
105.77 (G), 106.02 (TC)
VL+29.80, 26.97'LT
105.77 (G), 106.02 (TC)
VL+27.61, 27.08'LT
105.89
VL+28.67, 22.44'LT
105.85 (F)
VL+27.62, 24.22'LT
105.78 (G)
VL+27.62, 21.45'LT
105.85 (F)
VL+64.79, 29.58'LT
105.78 (F)
VL+66.97, 29.58'LT
105.70 (G)
VL+69.62, 29.58'LT
105.82
VL+68.44, 26.97'LT
105.64 (G), 105.89 (TC)
VL+68.73, 26.54'LT
105.63 (G), 105.88 (TC)
VL+70.63, 27.08'LT
105.76
VL+69.56, 22.45'LT
105.70 (F)
VL+70.62, 24.22'LT
105.62 (G)
VL+70.63, 21.45'LT
105.70 (F)
VL+92.19, 27.08'LT
106.42
VL+77.19, 27.08'LT
105.80
VL+75.62, 27.08'LT
105.80
VL+75.62, 25.08'LT
105.69
VL+77.00, 19.72'LT
105.60 (G), 106.10 (TC)
VL+75.63, 20.40'LT
105.62 (G)
VL+75.63, 18.15'LT
105.70 (F)
VL+20.52, 27.08'LT
105.93
VL+22.61, 27.08'LT
105.92
VL+00.52, 27.08'LT
106.78
VL+22.61, 27.08'LT
105.89
VL+21.27, 19.74'LT
105.82 (G), 106.32 (TC)
VL+22.62, 20.40'LT
105.82 (G)
VL+22.62, 18.16'LT
105.90 (F)
CURB RAMP TYPE 2 MODIFIED
CURB RAMP TYPE 2 MODIFIED
33VL
W. VLIET STREET
34VL
10NSF
R/L 21ST STREET
R/L VLIET STREET
VL+23.17, 16.58'RT
106.04 (F)
VL+23.17, 18.66'RT
105.96 (G)
VL+21.67, 18.28'RT
105.96 (G), 106.46 (TC)
VL+11.18, 27.08'RT
106.55
VL+23.18, 25.58'RT
106.03
VL+23.18, 27.08'RT
106.11
VL+11.18, 32.08'RT
106.63
106.72 EX
VL+23.19, 32.09'RT
106.19
VL+29.22, 47.08'RT
106.81
VL+23.22, 47.09'RT
106.89
VL+29.18, 19.55'RT
106.06 (F)
VL+29.18, 22.19'RT
105.98 (G)
VL+30.79, 20.97'RT
106.08 (F)
VL+30.83, 24.07'RT
106.00 (G), 106.25 (TC)
VL+31.39, 24.88'RT
106.01 (G), 106.26 (TC)
VL+29.19, 27.08'RT
106.08
VL+31.92, 27.08'RT
106.04
VL+32.56, 27.08'RT
106.01 (G)
VL+34.71, 27.08'RT
106.09 (F)
VL+35.75, 32.08'RT
106.11 (F)
VL+33.75, 32.08'RT
106.03 (G)
VL+33.75, 32.08'RT
106.04 (G), 106.54 (TC)
VL+31.93, 32.08'RT
106.06
VL+29.19, 32.08'RT
106.11
VL+69.62, 20.18'RT
105.85 (F)
VL+68.75, 20.99'RT
105.87 (F)
VL+69.62, 22.98'RT
105.77 (G)
VL+69.62, 23.87'RT
105.78
VL+68.14, 24.92'RT
105.83 (G), 106.08 (TC)
VL+69.62, 27.08'RT
105.99
VL+66.99, 27.08'RT
105.94 (G)
VL+64.84, 27.08'RT
106.02 (F)
VL+63.80, 32.08'RT
106.09 (F)
VL+65.81, 32.08'RT
106.01 (G)
VL+65.78, 33.58'RT
106.02 (G), 106.52 (TC)
VL+69.63, 32.08'RT
106.07
VL+69.66, 47.09'RT
106.71
VL+74.60, 17.16'RT
105.82 (F)
VL+74.61, 19.33'RT
105.74 (G)
VL+76.11, 18.74'RT
105.74 (G), 106.24 (TC)
VL+74.62, 23.87'RT
105.82
VL+74.63, 27.08'RT
106.01
VL+84.63, 27.08'RT
106.51
106.71 EX
VL+84.63, 32.08'RT
106.59
VL+74.63, 32.08'RT
106.09
VL+74.66, 47.08'RT
106.79
CURB RAMP TYPE 2
CURB RAMP TYPE 2
CURB RAMP TYPE 2

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 27	E

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

2

2

VL+50.45, 45.08'LT
103.47

VL+49.63, 32.08'LT
103.67 (TC)
103.42 (W)

VL+49.63, 37.11'LT
103.59 (TC)
103.34 (W)

VL+46.37, 32.08'LT
103.73 (TC)
103.48 (W)

VL+33.37, 32.08'LT
103.94

VL+38.37, 32.08'LT
103.87

VL+55.45, 45.08'LT
103.39
VL+54.63, 37.08'LT
103.28
VL+56.63, 37.08'LT
103.15
VL+59.40, 38.58'LT
103.05 (G), 103.55 (TC)
VL+59.08, 37.08'LT
103.11 (G)
VL+61.14, 37.08'LT
103.15 (F)

CURB RAMP
TYPE 3 MODIFIED

VL+59.49, 32.08'LT
103.25 (F)
VL+57.28, 32.08'LT
103.21 (G)
VL+54.63, 32.08'LT
103.35
VL+54.64, 29.65'LT
103.39
VL+52.65, 27.08'LT
103.44
VL+51.37, 27.08'LT
103.46

VL+33.37, 27.08'LT
103.87

VL+38.37, 27.08'LT
103.80

VL+46.37, 27.08'LT
103.53

VL+44.87, 20.12'LT
103.53 (G), 104.03 (TC)

VL+46.37, 21.50'LT
103.52

VL+46.37, 20.84'LT
103.51 (G)

VL+46.37, 18.61'LT
103.59 (F)

VL+51.37, 24.29'LT
103.41 (G)
VL+51.37, 21.69'LT
103.49 (F)

CURB RAMP
TYPE 3

N. 20TH STREET

VL+03.38, 37.06'LT
102.92
VL+95.18, 37.07'LT
102.84

VL+92.82, 38.57'LT
102.75 (G), 103.25 (TC)
VL+92.94, 37.07'LT
102.80 (G)
VL+90.92, 37.07'LT
102.84 (F)

CURB RAMP
TYPE 3 MODIFIED

VL+92.29, 32.07'LT
102.91 (F)
VL+94.51, 32.07'LT
102.87 (G)
VL+95.17, 32.07'LT
102.88
VL+95.75, 27.02'LT
102.96 (F)
VL+97.51, 28.10'LT
102.89 (G), 103.22 (TC)
VL+98.91, 26.92'LT
102.91 (G), 103.24 (TC)
VL+03.35, 32.08'LT
102.92
VL+03.35, 29.55'LT
102.88
VL+04.31, 27.08'LT
102.84
VL+04.32, 24.41'LT
102.79 (G)

R/L 20TH STREET

VL+04.32, 22.36'LT
102.83 (F)

CURB RAMP
TYPE 2 MODIFIED

VL+03.45, 47.06'LT
103.11
VL+08.45, 47.05'LT
103.19
VL+08.38, 37.05'LT
103.29 (TC)
102.99 (W)
VL+08.35, 32.08'LT
103.32 (TC)
102.95 (W)

103.33 EX

VL+09.35, 32.08'LT
103.33 (TC)
102.86 (W)
VL+19.41, 32.08'LT
103.02
VL+19.41, 27.08'LT
102.94

BUS STOP

VL+19.41, 24.00'LT
102.91
VL+16.32, 24.00'LT
102.58 (G), 103.08 (TC)
VL+09.32, 27.08'LT
102.79
VL+09.32, 24.00'LT
102.68 (G)
VL+09.32, 22.00'LT
102.72 (F)

VL+47.41, 32.08'LT
102.49
VL+47.41, 27.08'LT
102.41
VL+47.41, 24.00'LT
102.38

VL

37VL

W. VLIET STREET

R/L VLIET STREET

VL+46.37, 22.00'RT
103.75 (F)
VL+46.38, 24.00'RT
103.67 (G)
VL+46.37, 27.08'RT
103.70
VL+46.38, 24.00'RT
103.76 (G), 104.26 (TC)
VL+36.57, 24.00'RT
103.78 (TC)
VL+35.37, 27.08'RT
104.25
VL+30.37, 27.07'RT
104.31
VL+07.37,
24.00'RT
104.44

CURB RAMP
TYPE 3 MODIFIED

VL+51.37, 22.02'RT
103.59 (F)
VL+51.37, 24.02'RT
103.51 (G)
VL+51.37, 27.07'RT
103.58
VL+56.23, 25.10'RT
103.44 (G), 103.69 (TC)
VL+57.00, 27.07'RT
103.52
VL+61.13, 28.33'RT
103.40 (G), 103.65 (TC)
VL+57.00, 29.58'RT
103.50
VL+62.61, 26.98'RT
103.42 (F)
VL+61.50, 29.58'RT
103.30
VL+62.26, 29.58'RT
103.32 (G)
VL+64.73, 29.58'RT
103.40 (F)

BUS STOP

VL+30.37, 32.08'RT
104.38
VL+35.37, 32.08'RT
104.33
VL+07.37,
27.08'RT
104.46
VL+07.37,
32.08'RT
104.53
VL+46.38, 32.08'RT
104.15 (TC)
103.65 (W)

104.19 EX

VL+49.38, 32.08'RT
104.10 (TC)
103.60 (W)
VL+51.75, 34.58'RT
104.11 (TC)
103.54 (W)
VL+51.75, 41.58'RT
103.95
VL+57.00, 41.58'RT
103.88
VL+51.72, 46.60'RT
104.02

CURB RAMP
TYPE 2 MODIFIED

VL+67.00, 34.58'RT
103.39 (F)
VL+64.92, 34.58'RT
103.31 (G)
VL+65.29, 36.08'RT
103.31 (G), 103.81 (TC)
VL+61.50, 34.58'RT
103.36
VL+57.00, 34.58'RT
103.46
VL+56.99, 46.58'RT
103.95

VL+04.15, 20.55'RT
103.00 (F)
VL+04.15, 23.15'RT
102.92 (G)
VL+04.15, 23.94'RT
102.93
VL+02.00, 22.43'RT
103.05 (F)
VL+04.14, 27.08'RT
102.98

VL+02.08, 25.32'RT
102.96 (G), 103.21 (TC)

VL+00.86, 26.97'RT
102.98 (G), 103.27 (TC)
VL+03.14, 29.58'RT
102.99
VL+00.05, 29.58'RT
102.95
VL+99.40, 29.58'RT
102.94 (G)
VL+97.22, 29.58'RT
103.02 (F)

CURB RAMP
TYPE 2 MODIFIED

VL+95.81, 34.58'RT
103.00 (F)
VL+97.85, 34.58'RT
102.92 (G)
VL+97.64, 36.08'RT
102.92 (G), 103.42 (TC)
VL+00.04, 34.58'RT
102.95
VL+03.13, 34.58'RT
103.01
VL+03.12, 44.58'RT
103.41

CURB RAMP
TYPE 2 MODIFIED

VL+09.16, 17.66'RT
102.91 (F)
VL+09.16, 19.84'RT
102.83 (G)
VL+10.66, 19.22'RT
102.82 (G), 103.32 (TC)
VL+09.15, 23.95'RT
102.88
VL+09.14, 27.08'RT
102.92

VL+19.14, 27.08'RT
103.12

103.40 EX

VL+19.14, 32.10'RT
103.20
VL+09.14, 32.08'RT
103.00

VL+08.14, 32.08'RT
103.03
VL+08.13, 34.58'RT
103.04
VL+08.12, 44.58'RT
103.49

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\04\s202AM07_cr.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

2

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

VL+10.54, 47.07' LT
98.86

VL+09.93, 34.85' LT
98.75 (TC)
98.36 (W)

VL+09.80, 32.08' LT
98.72 (TC)
98.32 (W)

VL+01.55, 32.08' LT
98.72

98.70 EX

VL+01.55, 27.08' LT
98.64

VL+09.56, 27.08' LT
98.24

VL+09.57, 21.11' LT
97.87

VL+08.08, 18.09' LT
97.82 (G), 98.32 (TC)

VL+09.58, 18.34' LT
97.83 (G)

VL+09.57, 16.29' LT
97.91 (F)

VL+15.53, 46.83' LT
98.78

VL+14.93, 34.61' LT
98.28

VL+20.44, 34.61' LT
97.92

VL+21.52, 34.61' LT
97.90 (G)

VL+23.52, 34.61' LT
97.98 (F)

CURB RAMP TYPE 3 MODIFIED

VL+23.08, 29.61' LT
97.95 (F)

VL+21.03, 29.61' LT
97.87 (G)

VL+20.43, 29.61' LT
97.88

VL+19.62, 25.88' LT
97.86 (G), 98.11 (TC)

VL+14.68, 29.61' LT
98.26

VL+14.56, 27.08' LT
98.25

VL+17.60, 23.00' LT
97.85 (G), 98.10 (TC)

VL+18.15, 20.69' LT
97.93 (F)

VL+14.57, 21.11' LT
97.85

VL+14.57, 20.41' LT
97.84 (G)

VL+14.57, 18.08' LT
97.92 (F)

CURB RAMP TYPE 2

N. 18TH STREET

43VL

VL+62.96, 49.06' LT
98.73

VL+62.00, 34.58' LT
98.03

VL+59.88, 34.58' LT
97.98

VL+56.08, 36.09' LT
97.93 (G), 98.47 (TC)

VL+56.45, 34.59' LT
97.93 (G)

VL+54.37, 34.59' LT
98.01 (F)

CURB RAMP TYPE 3 MODIFIED

VL+56.63, 29.59' LT
98.02 (F)

VL+59.11, 29.58' LT
97.94 (G)

VL+58.30, 27.47' LT
98.03 (F)

VL+62.00, 29.58' LT
97.99

VL+61.61, 27.14' LT
97.98 (G), 98.23 (TC)

VL+63.74, 25.76' LT
98.01 (G), 98.26 (TC)

VL+67.00, 27.09' LT
98.07

VL+67.00, 24.49' LT
98.05 (G)

VL+66.99, 22.43' LT
98.13 (F)

VL+67.94, 48.64' LT
98.81

VL+67.00, 34.58' LT
98.60 (TC)
98.10 (W)

VL+67.00, 32.08' LT
98.64 (TC)
98.14 (W)

98.79 EX

VL+72.00, 32.08' LT
98.70 (TC)
98.20 (W)

VL+87.00, 32.08' LT
98.78

VL+15.00, 32.08' LT
98.86

BUS STOP

VL+87.00, 27.08' LT
98.70

VL+87.00, 24.00' LT
98.67 (TC)

VL+81.00, 24.00' LT
98.15 (G), 98.65 (TC)

VL+15.00, 27.08' LT
98.78

VL+15.00, 24.00' LT
98.75 (TC)

VL+72.00, 27.06' LT
98.12

VL+72.00, 24.00' LT
98.10 (G)

VL+71.99, 22.00' LT
98.18 (F)

CURB RAMP TYPE 3 MODIFIED

W. VLIET STREET

44VL

VL+09.65, 16.35' RT
97.90 (F)

VL+09.65, 18.39' RT
97.82 (G)

VL+08.14, 18.12' RT
97.82 (G), 98.32 (TC)

VL+09.65, 21.31' RT
97.86

VL+01.65, 18.00' RT
98.28 (TC)

VL+09.65, 27.08' RT
98.02

VL+73.65, 18.00' RT
98.22 (TC)

VL+73.65, 27.08' RT
98.34

BUS STOP

VL+73.65, 32.08' RT
98.42

VL+01.65, 27.08' RT
98.40

VL+01.65, 32.08' RT
98.48

VL+09.65, 32.08' RT
98.10

VL+09.65, 39.08' RT
98.35

98.41 EX

VL+14.65, 18.23' RT
97.86 (F)

VL+14.65, 20.58' RT
97.78 (G)

VL+14.65, 21.29' RT
97.79

VL+14.65, 27.09' RT
97.94

VL+17.29, 22.87' RT
97.74 (G), 97.99 (TC)

VL+18.25, 20.98' RT
97.82 (F)

VL+18.27, 24.06' RT
97.73 (G), 98.98 (TC)

VL+19.38, 27.08' RT
97.70

VL+20.01, 27.08' RT
97.69 (G)

VL+22.17, 27.09' RT
97.77 (F)

R/L 18TH STREET

CURB RAMP TYPE 2

VL+23.21, 32.08' RT
97.74 (F)

VL+21.20, 32.08' RT
97.66 (G)

VL+21.23, 33.58' RT
97.65 (G), 98.15 (TC)

VL+19.37, 32.14' RT
97.69

VL+14.65, 32.08' RT
98.02

VL+14.65, 39.08' RT
98.27

CURB RAMP TYPE 2

IONSH

VL+66.97, 16.32' RT
98.20 (F)

VL+66.97, 18.36' RT
98.12 (G)

VL+66.97, 18.96' RT
98.13

VL+63.23, 19.73' RT
98.04 (G), 98.29 (TC)

VL+66.97, 27.08' RT
98.27

VL+58.21, 20.98' RT
98.04 (F)

VL+62.31, 27.08' RT
98.20

VL+58.49, 23.66' RT
97.93 (G), 98.18 (TC)

VL+57.08, 27.08' RT
97.87

VL+56.45, 27.08' RT
97.86 (G)

VL+54.29, 27.08' RT
97.94 (F)

CURB RAMP TYPE 2

VL+53.25, 32.08' RT
97.88 (F)

VL+55.26, 32.08' RT
97.80 (G)

VL+57.08, 32.08' RT
97.83

VL+62.31, 32.08' RT
98.20

VL+62.31, 42.08' RT
98.62

R/L VLIET STREET

CURB RAMP TYPE 3

VL+71.97, 16.00' RT
98.24 (F)

VL+71.97, 18.00' RT
98.16 (G)

VL+71.97, 18.99' RT
98.18

VL+73.47, 18.00' RT
98.17 (G), 98.17 (TC)

VL+71.97, 27.08' RT
98.34

VL+79.97, 27.08' RT
98.64

98.75 EX

VL+79.96, 32.08' RT
98.72

VL+71.97, 32.08' RT
98.72 (TC)
98.36 (W)

VL+67.81, 32.08' RT
98.72 (TC)
98.28 (W)

VL+67.31, 42.08' RT
98.70

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 29 E

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

N

N. 17TH STREET NB

W. VLIET STREET

N. 17TH STREET SB

R/L 17TH STREET SB

R/L VLIET STREET

R/L 17TH STREET NB

46VL

47VL

48VL

10NSI

10NSJ

BUS STOP

CURB RAMP TYPE 2

CURB RAMP TYPE 5

VL+50.83, 68.08' LT
99.66 (TC)

VL+39.75, 68.08' LT
99.82

VL+44.75, 68.08' LT
99.74

VL+44.62, 40.08' LT
99.61

VL+44.58, 32.08' LT
99.12

VL+50.70, 40.08' LT
99.56 (TC)

VL+46.75, 32.08' LT
99.10

VL+50.20, 33.58' LT
99.07 (G), 99.57 (TC)

VL+49.80, 32.08' LT
99.06 (G)

VL+51.88, 32.08' LT
99.14 (F)

VL+39.62, 40.08' LT
99.69

VL+39.58, 32.08' LT
99.17

VL+29.58, 32.08' LT
99.47

99.47 EX

VL+29.56, 27.08' LT
99.40

VL+39.56, 27.08' LT
99.09

VL+49.79, 27.08' LT
99.09 (F)

VL+47.45, 27.08' LT
99.01 (G)

VL+44.56, 27.08' LT
99.07

VL+46.10, 25.25' LT
98.97 (G), 99.22

VL+44.55, 24.40' LT
98.94

VL+46.21, 22.41' LT
99.03 (F)

VL+44.55, 23.58' LT
98.93 (G)

VL+44.55, 20.91' LT
99.01 (F)

VL+39.55, 24.42' LT
98.93

VL+38.02, 19.39' LT
98.86 (G), 99.36 (TC)

VL+39.53, 20.06' LT
98.87 (G)

VL+39.53, 17.85' LT
98.95 (F)

VL+39.06, 22.00' RT
98.68 (F)

VL+39.06, 24.00' RT
98.60 (G)

VL+39.05, 27.08' RT
98.74

VL+44.06, 22.41' RT
98.64 (F)

VL+44.06, 24.47' RT
98.56 (G)

VL+44.29, 27.08' RT
98.66

VL+49.45, 27.08' RT
98.51 (G), 98.76 (TC)

VL+48.45, 27.08' RT
98.46

VL+49.45, 27.08' RT
98.45 (G)

VL+52.39, 27.01' RT
98.53 (F)

VL+52.47, 27.09' RT
98.53 (F)

VL+04.05, 24.00' RT
99.83 (TC)

VL+04.05, 27.08' RT
98.86

VL+39.05, 24.00' RT
98.62 (G), 99.02 (TC)

VL+32.05, 27.08' RT
99.02

VL+04.05, 32.08' RT
98.94

VL+32.05, 32.08' RT
99.08

VL+39.29, 32.08' RT
98.82

VL+39.26, 39.08' RT
98.90

VL+55.87, 32.09' RT
98.46 (F)

VL+53.65, 32.08' RT
99.38 (G)

VL+54.33, 33.58' RT
99.37 (G), 99.87 (TC)

VL+48.45, 32.08' RT
99.46

VL+44.29, 32.08' RT
98.74

VL+44.26, 39.08' RT
98.82

VL+15.07, 32.63' LT
99.58 (F)

VL+12.91, 32.63' LT
99.50 (G)

VL+09.80, 32.63' LT
99.55

VL+03.77, 32.63' LT
99.28

VL+00.66, 32.63' LT
99.23 (G)

VL+98.50, 32.63' LT
99.31 (F)

VL+00.82, 27.63' LT
99.29 (F)

VL+03.11, 27.63' LT
99.21 (G)

VL+03.77, 27.63' LT
99.22

VL+09.80, 27.63' LT
99.42

VL+10.47, 27.63' LT
99.41 (G)

VL+12.75, 27.63' LT
99.49 (F)

VL+90.31, 27.69' RT
98.61 (F)

VL+92.59, 27.69' RT
99.53 (G)

VL+93.26, 27.69' RT
99.54

VL+99.29, 27.69' RT
98.79

VL+99.95, 27.69' RT
98.78 (G)

VL+02.23, 27.69' RT
98.86 (F)

VL+04.54, 32.70' RT
98.83 (F)

VL+02.38, 32.69' RT
98.75 (G)

VL+99.28, 32.69' RT
98.80

VL+93.25, 32.69' RT
98.48

VL+90.16, 32.69' RT
98.43 (G)

VL+88.00, 32.69' RT
98.51 (F)

VL+62.29, 32.08' LT
99.49

VL+57.29, 32.08' LT
99.42

VL+48.76, 33.58' LT
99.39 (G), 99.89 (TC)

VL+49.43, 32.08' LT
99.38 (G)

VL+47.22, 32.09' LT
99.46 (F)

VL+50.62, 27.09' LT
99.42 (G)

VL+50.69, 27.01' LT
99.42 (F)

VL+53.63, 27.08' LT
99.34 (G)

VL+56.18, 25.51' LT
99.30 (G), 99.55 (TC)

VL+57.27, 27.08' LT
99.39

VL+59.28, 24.41' LT
99.27 (G), 99.52 (TC)

VL+62.27, 27.08' LT
99.41

VL+62.25, 24.01' LT
99.25 (G)

VL+62.25, 22.01' LT
99.33 (F)

VL+62.51, 18.32' RT
99.06 (F)

VL+62.51, 20.58' RT
98.98 (G)

VL+62.51, 21.25' RT
98.99

VL+62.48, 27.08' RT
99.01

VL+59.24, 22.88' RT
98.88 (G), 99.13 (TC)

VL+56.82, 22.40' RT
98.93 (F)

VL+58.08, 23.97' RT
98.85 (G), 99.10 (TC)

VL+56.28, 27.08' RT
98.74

VL+55.58, 27.08' RT
98.73 (G)

VL+53.24, 27.08' RT
98.81 (F)

VL+51.15, 32.08' RT
98.69 (F)

VL+52.83, 33.58' RT
98.59 (G), 99.09 (TC)

VL+53.23, 32.08' RT
98.61 (G)

VL+98.62, 37.08' RT
98.96 (TC)

VL+56.28, 32.08' RT
98.66

VL+62.45, 32.08' RT
99.01

VL+52.19, 65.08' RT
98.31 (TC)

VL+62.33, 40.08' LT
99.73

VL+67.33, 40.08' LT
99.81

VL+67.27, 32.08' LT
99.50

99.62 EX

VL+72.27, 32.08' LT
99.72

VL+72.27, 27.08' LT
99.72

VL+72.27, 24.00' LT
98.72 (TC)

VL+68.75, 24.00' LT
99.28 (G), 99.78 (TC)

VL+67.27, 27.08' LT
99.47

VL+67.25, 24.00' LT
99.28 (G)

VL+67.25, 22.00' LT
99,36 (F)

VL+67.52, 16.53' RT
99.12 (F)

VL+67.52, 18.59' RT
99.04 (G)

VL+67.51, 21.28' RT
99.08

VL+69.02, 18.28' RT
99.05 (G), 99.55 (TC)

VL+67.48, 27.08' RT
99.09

VL+84.40, 27.08' RT
99.17

99.11 EX

VL+67.45, 32.08' RT
99.09

VL+67.42, 37.08' RT
99.15

VL+62.42, 37.08' RT
99.07

VL+62.28, 65.08' RT
98.45

VL+67.28, 65.08' RT
98.53

VL+00.27, 32.08' LT
99.76

VL+00.27, 27.08' LT
99.68

VL+00.27, 24.00' LT
99.65 (TC)

VL+84.40, 32.08' RT
99.25

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 30 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Sheets\20221103_CURB RAMPS.dgn PLOT DATE : 3/27/2023 10:04:30 AM PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 15:1

WISDOT/CADDS SHEET 42

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

VL+53.91, 32.08' LT
99.65

VL+53.91, 32.08' LT
99.82

VL+28.98, 32.08' LT
100.36

VL+43.39, 32.08' LT
100.26

VL+43.44, 42.08' LT
100.74

VL+48.44, 42.08' LT
100.66

VL+48.39, 32.08' LT
100.25

VL+53.15, 32.08' LT
100.23

VL+54.95, 32.08' LT
100.20 (G)

VL+56.95, 32.08' LT
100.28 (F)

100.42 EX

BUS STOP

CURB RAMP TYPE 2

VL+53.91, 27.08' LT
99.57

VL+93.91, 27.08' LT
99.74

VL+28.97, 27.08' LT
100.28

VL+43.36, 27.08' LT
100.18

VL+55.91, 27.08' LT
100.26 (F)

VL+53.76, 27.08' LT
100.18 (G)

VL+53.12, 27.08' LT
100.19

VL+52.31, 24.46' LT
100.16 (G), 100.41 (TC)

VL+48.36, 27.08' LT
100.22

VL+53.91, 24.00' LT
99.53 (TC)

VL+93.91, 24.00' LT
99.70 (TC)

VL+43.33, 21.25' LT
100.15

VL+51.96, 20.95' LT
100.23 (F)

VL+50.64, 22.45' LT
100.15 (G), 100.40 (TC)

VL+48.33, 21.25' LT
100.14

VL+43.32, 18.38' LT
100.11 (G)

VL+48.33, 20.54' LT
100.13 (G)

VL+43.32, 18.38' LT
100.11 (G)

VL+48.33, 18.19' LT
100.21 (F)

VL+43.31, 16.33' LT
100.19 (F)

CURB RAMP TYPE 2

N. 15TH STREET

R/L 15TH STREET

10NSK

53VL

W. VLIET STREET

R/L VLIET STREET

CURB RAMP TYPE 3

VL+42.92, 16.00' RT
99.97 (F)

VL+42.92, 18.00' RT
99.89 (G)

VL+41.41, 18.00' RT
99.88 (G), 100.38 (TC)

VL+47.92, 16.00' RT
99.99 (F)

VL+47.92, 18.00' RT
99.91 (G)

VL+49.41, 18.00' RT
99.92 (G), 100.42 (TC)

VL+42.91, 27.10' RT
100.33

VL+47.91, 27.08' RT
100.34

VL+42.91, 32.08' RT
100.40

VL+47.91, 32.08' RT
100.42

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\E Pr 2022 11 45 02 1 10_cr.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 10:1
WISDOT/CADDS SHEET 42

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

N. 15TH STREET

W. VLIET STREET

R/L VLIET STREET

CURB RAMP TYPE 2

CURB RAMP TYPE 2

CURB RAMP TYPE 3

BUS STOP

VL+96.11, 42.08'LT
100.84

VL+96.05, 32.08'LT
100.49
VL+92.95, 32.08'LT
100.28
VL+89.90, 32.08'LT
100.23 (G)

VL+87.81, 32.08'LT
100.31 (F)

VL+89.90, 27.09'LT
100.34 (F)
VL+92.25, 27.08'LT
100.26 (G)
VL+92.95, 27.08'LT
100.27
VL+93.74, 25.08'LT
100.27 (G), 100.52 (TC)
VL+96.03, 27.08'LT
100.46
VL+94.21, 24.54'LT
100.27 (G), 100.52 (TC)
VL+93.41, 22.49'LT
100.36 (F)
VL+96.01, 23.57'LT
100.32
VL+96.01, 22.80'LT
100.31 (G)
VL+96.01, 20.25'LT
100.39 (F)

VL+01.11, 42.08'LT
100.92
VL+01.05, 32.08'LT
100.57
100.59 EX
VL+20.00, 32.08'LT
100.84
VL+20.00, 27.08'LT
100.81
VL+20.00, 24.00'LT
100.80 (TC)
VL+01.03, 27.08'LT
100.54
VL+01.01, 23.57'LT
100.40
VL+00.99, 19.68'LT
100.35 (G)
VL+00.99, 17.51'LT
100.43 (F)

VL+96.21, 16.00'RT
100.21 (F)
VL+96.21, 18.00'RT
101.13 (G)
VL+94.71, 18.00'RT
100.12 (G), 100.62 (TC)
VL+96.21, 27.08'RT
100.52

VL+01.21, 16.00'RT
100.23 (F)
VL+01.21, 18.00'RT
100.15 (G)
VL+02.71, 18.00'RT
100.16 (G), 100.66 (TC)
VL+01.21, 27.08'RT
100.53

VL+50.41, 24.00'RT
100.27 (TC)
VL+50.41, 27.08'RT
100.31
VL+90.41, 24.00'RT
100.38 (TC)
VL+90.41, 27.08'RT
100.42

VL+50.41, 32.08'RT
100.39
VL+90.41, 32.08'RT
100.50

VL+96.21, 32.08'RT
100.59
VL+01.21, 32.08'RT
100.60

6.5' 5' 1.5% 3.5% 3.5% 4.0% 6.8% 6.0% 1.5% .5% .5% 1.5% 4.0% 1.4% 1.2% 0.5% 0.5% 10% 9.2% 4.0% 4.0% 4.0% 4.0% 8.5' 4.0% 4.0% 4.5% 4.4% 0.2% 1.5% 1.5% 0.2% 1.5% 2.5' 5' 1.5% 1.5% 1.5%

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 32	E

2

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

N

W. VLIET STREET

N. 14TH STREET

R/L VLIET STREET

R/L 14TH STREET

57VL

58VL

10NSL

CURB RAMP TYPE 2

CURB RAMP TYPE 2 MODIFIED

CURB RAMP TYPE 3 MODIFIED

102.00 EX

102.17 EX

101.66 EX

VL+00.87, 27.08'LT
101.70

VL+17.03, 37.08'LT
102.13
VL+18.32, 32.08'LT
101.87
VL+00.87, 32.08'LT
101.78

VL+23.39, 37.09'LT
102.04
VL+23.35, 32.08'LT
101.79
VL+32.10, 39.99'LT
101.47 (G), 101.97 (TC)
VL+28.17, 32.08'LT
101.50
VL+31.21, 32.08'LT
101.46 (G)
VL+33.30, 32.08'LT
101.54 (F)

VL+18.32, 27.08'LT
101.79
VL+18.28, 22.16'LT
101.44
VL+16.76, 18.55'LT
101.41 (G), 101.91 (TC)
VL+18.27, 18.97'LT
101.40 (G)
VL+18.26, 16.88'LT
101.48 (F)

VL+31.21, 27.08'LT
101.52 (F)
VL+28.87, 27.08'LT
101.44 (G)
VL+28.17, 27.08'LT
101.45
VL+27.05, 24.70'LT
101.42 (G), 101.67 (TC)
VL+27.72, 22.50'LT
101.50 (F)
VL+25.64, 23.27'LT
101.42 (G), 101.67 (TC)

VL+23.32, 27.08'LT
101.71
VL+23.28, 22.12'LT
101.42
VL+23.28, 21.41'LT
101.41 (G)
VL+23.28, 19.05'LT
101.49 (F)

VL+71.17, 42.09'LT
102.21
VL+71.24, 32.09'LT
101.76
VL+66.04, 32.08'LT
101.50
VL+63.00, 32.09'LT
101.47 (G)
VL+60.92, 32.09'LT
101.55 (F)

VL+76.16, 42.08'LT
102.28
VL+77.72, 32.08'LT
102.17 (TC)
101.87 (W)
VL+87.72, 32.08'LT
102.15

VL+76.24, 32.08'LT
102.16 (TC)
101.82 (W)

VL+63.01, 27.09'LT
101.57 (F)
VL+65.35, 27.08'LT
101.49 (G)
VL+66.05, 27.09'LT
101.50
VL+71.27, 27.08'LT
101.71
VL+66.61, 22.39'LT
101.56 (F)
VL+67.86, 23.97'LT
101.48 (G), 101.73 (TC)
VL+69.33, 22.62'LT
101.48 (G), 101.73 (TC)
VL+72.68, 27.08'LT
101.73
VL+72.64, 21.05'LT
101.48
VL+72.64, 20.38'LT
101.47 (G)

VL+72.64, 18.14'LT
101.55 (F)

VL+87.68, 27.08'LT
102.08
VL+77.68, 27.08'LT
101.80
VL+77.64, 20.98'LT
101.49
VL+77.63, 18.51'LT
101.46 (G)
VL+77.63, 16.46'LT
101.54 (F)

VL+22.97, 20.49'RT
101.38 (F)
VL+22.97, 23.08'RT
101.30 (G)
VL+22.97, 23.87'RT
101.31
VL+25.26, 22.50'RT
101.35 (F)
VL+22.95, 27.08'RT
101.36
VL+24.73, 24.88'RT
101.25 (G), 101.50 (TC)

VL+17.99, 17.64'RT
101.44 (F)
VL+17.99, 19.82'RT
101.36 (G)
VL+16.50, 19.21'RT
101.32 (G), 101.82 (TC)
VL+17.97, 23.84'RT
101.40

VL+25.71, 27.08'RT
101.23
VL+26.41, 27.08'RT
101.22 (G)
VL+28.76, 27.09'RT
101.30 (F)

VL+12.95, 27.08'RT
101.61
VL+17.95, 27.08'RT
101.44
VL+12.91, 32.08'RT
101.68

VL+30.84, 32.08'RT
101.25 (F)
VL+28.76, 32.08'RT
101.17 (G)
VL+29.16, 33.58'RT
101.12 (G), 101.62 (TC)
VL+25.71, 32.08'RT
101.21
VL+22.91, 32.08'RT
101.39

VL+17.91, 32.08'RT
101.47
VL+17.88, 37.08'RT
101.72

VL+22.88, 37.08'RT
101.64

VL+72.37, 16.56'RT
101.54 (F)
VL+72.37, 18.64'RT
101.46 (G)
VL+72.37, 19.25'RT
101.47
VL+68.74, 20.28'RT
101.41 (G), 101.66 (TC)
VL+72.31, 27.08'RT
101.49
VL+64.71, 20.94'RT
101.46 (F)
VL+64.95, 23.66'RT
101.37 (G), 101.62 (TC)
VL+66.81, 27.08'RT
101.46
VL+63.54, 27.08'RT
101.34
VL+62.91, 27.08'RT
101.33 (G)
VL+60.75, 27.08'RT
101.41 (F)

VL+77.37, 16.00'RT
101.55 (F)
VL+77.37, 18.00'RT
101.47 (G)
VL+78.88, 18.00'RT
101.48 (G), 101.98 (TC)
VL+77.37, 19.26'RT
101.49
VL+77.31, 27.08'RT
101.52
VL+89.87, 27.08'RT
101.66

VL+59.72, 32.08'RT
101.33 (F)
VL+61.72, 32.08'RT
101.25 (G)
VL+61.69, 33.58'RT
101.23 (G), 101.73 (TC)
VL+63.49, 32.08'RT
101.28
VL+66.78, 32.08'RT
101.49
VL+66.75, 37.08'RT
101.69

VL+89.87, 32.08'RT
101.74
VL+77.28, 32.08'RT
101.60

VL+72.78, 32.08'RT
101.53
VL+72.75, 37.08'RT
101.78

NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Sheets\63342_Vliet_crRD01.dgn PLOTTED : 7/27/2023 11:58:32 AM BY : dbaumann PLOT NAME : PLOT SCALE : 10:1
WISDOT/CADDS SHEET 42

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING

VL+46.16, 61.10' LT
103.49
VL+41.61, 64.14' LT
102.86 (G), 103.36 (TC)
VL+46.12, 56.10' LT
103.15
VL+41.54, 56.14' LT
102.80 (G)
VL+39.54, 56.16' LT
102.88
VL+41.50, 51.14' LT
102.76 (G)
VL+39.50, 51.16' LT
102.84
VL+46.04, 46.10' LT
103.10
VL+35.44, 44.36' LT
102.74 (G), 103.24 (TC)
VL+45.93, 31.58' LT
102.82
VL+35.40, 39.25' LT
102.68 (G), 103.18 (TC)
VL+43.08, 31.58' LT
102.73
VL+37.36, 31.59' LT
102.64 (G)
VL+35.10, 31.59' LT
102.72 (F)
VL+97.02, 32.08' LT
102.71
VL+03.47, 32.08' LT
102.64
VL+07.43, 43.08' LT
102.62 (G), 103.12 (TC)
VL+96.87, 37.06' LT
102.76
VL+91.87, 37.08' LT
102.83
VL+91.85, 32.07' LT
102.72
VL+86.11, 32.08' LT
102.73
VL+76.38, 32.08' LT
102.75
VL+06.50, 32.08' LT
102.59 (G)
VL+08.58, 32.08' LT
102.67 (F)
CURB RAMP TYPE 2
VL+06.49, 27.08' LT
102.65 (F)
VL+04.15, 27.08' LT
102.57 (G)
VL+00.18, 22.62' LT
102.56 (G), 102.82 (TC)
VL+96.81, 27.08' LT
102.65
VL+96.65, 20.27' LT
102.55 (G), 102.80 (TC)
VL+91.07, 27.08' LT
102.65
VL+91.00, 18.33' LT
102.54 (G)
VL+90.98, 16.29' LT
102.62 (F)
VL+76.38, 27.08' LT
102.68
VL+86.07, 27.08' LT
102.66
VL+85.99, 18.00' LT
102.51 (G), 103.01 (TC)
VL+86.00, 18.96' LT
102.54
VL+85.99, 18.00' LT
102.52 (G)
VL+85.98, 16.00' LT
102.60 (F)
CURB RAMP TYPE 3 MODIFIED
61VL
R/L 13TH STREET
10TH ST N. SM N.
VL+46.19, 64.81' LT
103.55
VL+51.19, 64.77' LT
103.62
VL+51.16, 61.06' LT
103.56
VL+50.62, 56.10' LT
103.22 (W), 103.44 (TC)
VL+50.58, 51.07' LT
103.17 (W), 103.30 (TC)
VL+51.04, 46.07' LT
103.17
VL+45.97, 36.58' LT
103.02
VL+50.97, 36.58' LT
103.10
VL+50.93, 31.58' LT
102.90
VL+55.82, 31.58' LT
102.82
VL+60.82, 31.58' LT
103.00
102.95 EX
CURB RAMP TYPE 2
VL+60.82, 26.58' LT
102.92
VL+38.33, 27.03' LT
102.69 (F)
VL+38.79, 26.59' LT
102.68 (F)
VL+41.99, 26.58' LT
102.60 (G)
VL+45.89, 26.58' LT
102.74
VL+45.55, 24.80' LT
102.68 (G), 102.93 (TC)
VL+46.85, 24.43' LT
102.70 (G), 102.95 (TC)
VL+50.81, 26.58' LT
102.82
VL+50.81, 24.00' LT
102.79 (G)
CURB RAMP TYPE 3
VL+63.81, 24.00' LT
102.73 (G), 102.98 (TC)
VL+55.81, 26.60' LT
102.80
VL+55.81, 24.00' LT
102.77 (G)
VL+55.81, 22.00' LT
102.85 (F)
VL+50.81, 22.00' LT
102.87 (F)
R/L VLIET STREET
W. VLIET STREET
62VL
VL+85.64, 22.00' RT
102.09 (F)
VL+85.64, 24.00' RT
102.01 (G)
VL+85.64, 24.00' RT
102.00 (G), 102.50 (TC)
VL+85.62, 27.08' RT
102.05
VL+75.62, 27.08' RT
102.49
CURB RAMP TYPE 3 MODIFIED
R/L 13TH STREET
VL+90.64, 22.29' RT
102.08 (F)
VL+90.64, 24.32' RT
102.00 (G)
VL+90.62, 27.08' RT
102.02
VL+93.54, 25.08' RT
101.98 (G), 102.23 (TC)
VL+96.59, 26.41' RT
101.97 (G), 102.22 (TC)
VL+96.14, 28.03' RT
101.98
VL+99.11, 28.03' RT
101.94 (G)
VL+02.69, 28.51' RT
102.02 (F)
CURB RAMP TYPE 2 MODIFIED
VL+75.58, 32.08' RT
102.57
VL+85.58, 32.08' RT
102.13
VL+90.58, 32.08' RT
102.05
102.53 EX
VL+91.08, 32.08' RT
102.04
VL+91.07, 33.03' RT
102.02
VL+91.01, 41.03' RT
102.32
VL+96.01, 41.03' RT
102.24
VL+06.14, 33.03' RT
101.90 (F)
VL+03.79, 33.03' RT
101.82 (G)
VL+06.74, 40.41' RT
101.68 (G), 102.18 (TC)
VL+96.07, 33.03' RT
101.94
VL+33.93, 32.08' RT
102.05 (F)
VL+36.01, 32.08' RT
101.97 (G)
VL+39.05, 32.08' RT
102.02
VL+35.10, 39.99' RT
101.91 (G), 102.41 (TC)
VL+45.75, 32.08' RT
102.49
VL+50.88, 16.41' RT
102.44 (F)
VL+50.86, 18.46' RT
102.36 (G)
VL+45.28, 20.59' RT
102.27 (G), 102.52 (TC)
VL+50.79, 27.08' RT
102.50
VL+42.33, 22.62' RT
102.20 (G), 102.45 (TC)
VL+45.73, 27.04' RT
102.42
VL+38.36, 27.08' RT
102.07 (G)
VL+36.02, 27.08' RT
102.15 (F)
CURB RAMP TYPE 2
VL+55.89, 16.00' RT
102.47 (F)
VL+55.88, 18.00' RT
102.39 (G)
VL+55.87, 19.06' RT
102.41
VL+64.36, 18.00' RT
102.42 (G), 102.92 (TC)
VL+55.80, 27.08' RT
102.55
VL+68.37, 27.08' RT
102.68
VL+55.76, 32.08' RT
102.73 (TC), 102.62 (W)
VL+68.37, 32.08' RT
102.76
VL+50.75, 32.08' RT
102.57 (W), 102.72 (TC)
102.72 EX
VL+50.70, 38.13' RT
102.70
VL+45.70, 38.09' RT
102.62

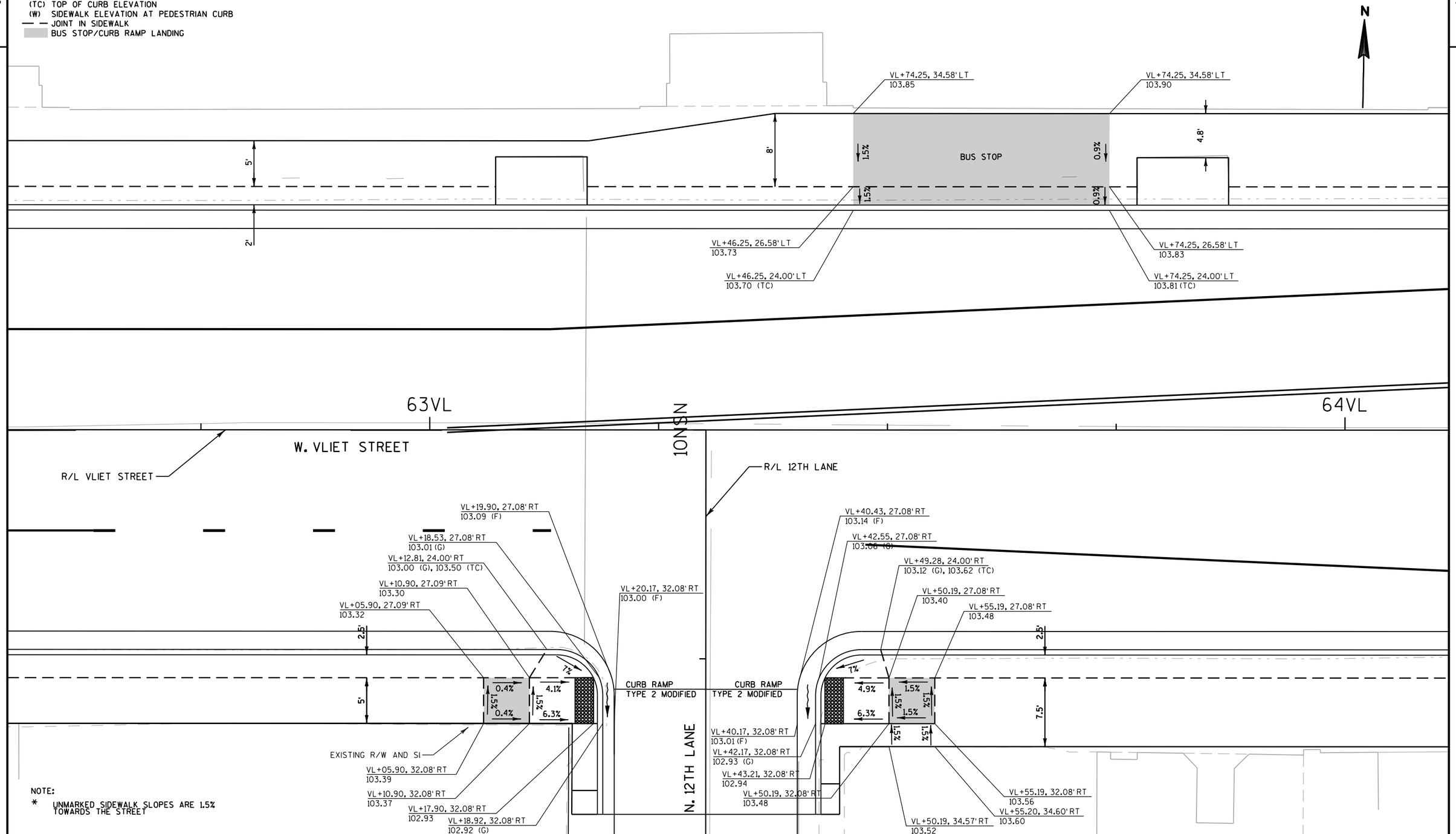
NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET 34 E

2

LEGEND

(EX) EXISTING ELEVATION
(F) FLANGE ELEVATION
(G) GUTTER ELEVATION
(TC) TOP OF CURB ELEVATION
(W) SIDEWALK ELEVATION AT PEDESTRIAN CURB
— — JOINT IN SIDEWALK
BUS STOP/CURB RAMP LANDING



NOTE:
* UNMARKED SIDEWALK SLOPES ARE 1.5% TOWARDS THE STREET

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CURB RAMPS DETAILS	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Set Production\Sheets\2\63342_2_CRD01.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 10:1

2

2

N

N. 27TH STREET

N. 26TH STREET

N. 25TH STREET

N. 24TH PLACE

N. 24TH STREET

W. VLIET STREET

R/L W. VLIET STREET

MATCHLINE 24VL+00

15VL

20VL

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING STORM SEWER

SHOOT BLDG CORNERS (NOT PORCH)

GET BUILDING/MISC SHOTS

GET BUILDING/MISC SHOTS

FENCE SHOTS???

PICTURES?????

SIDEWALK????

BUILDING DIMENSIONS WITH OVERHANG??? BLDG. #

WALL/BLDG DIMENSIONS??? BLDG. #

BLDG SHOTS???

LANE MARKING SHOTS???

centerline shots

centerline shots

REMOVAL LEGEND

- REMOVING SIDEWALK
- REMOVING CONCRETE PAVEMENT
- RSW — REMOVING STORM SEWER
- REMOVING CATCH BASIN
- XXXXX SAWCUT

NOTE:

REMOVE ENCOUNTERED BURIED TRACK. SEE TRACK ZONE LOCATION SHEETS FOR POSSIBLE LOCATIONS.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\11\dc5021101_rm.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

N. 23RD STREET

N. 22ND STREET

N. 21ST STREET

N. 20TH STREET

W. KNEELAND

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING CATCH BASIN

25VL

30VL

35VL

MATCHLINE 24VL+00

MATCHLINE 39VL+00

W. VLIET STREET

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING STORM SEWER

REMOVING CATCH BASIN

R/L W. VLIET STREET

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING STORM SEWER

REMOVING CATCH BASIN

W 19TH

N 21ST

REMOVAL LEGEND

- REMOVING SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING STORM SEWER
- REMOVING CATCH BASIN
- XXXXX SAWCUT

NOTE:

REMOVE ENCOUNTERED BURIED TRACK. SEE TRACK ZONE LOCATION SHEETS FOR POSSIBLE LOCATIONS.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 37	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\1108c20102_rm.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

N. 18TH STREET

N. 17TH STREET

N. 15TH STREET

W. VLIET STREET

R/L W. VLIET STREET

MATCHLINE 39VL+00

MATCHLINE 54VL+00

40VL

45VL

50VL

REMOVING STORM SEWER

REMOVING CATCH BASIN

REMOVING

CATCH BASIN

centerline shots

West side of Bus Stop shelter

N 18TH COURT

W 18TH COURT

N 17TH STREET

REMOVAL LEGEND

REMOVING SIDEWALK

REMOVING CONCRETE PAVEMENT

REMOVING STORM SEWER

REMOVING CATCH BASIN

SAWCUT

NOTE:

REMOVE ENCOUNTERED BURIED TRACK. SEE TRACK ZONE LOCATION SHEETS FOR POSSIBLE LOCATIONS.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 38	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\11\22\241103_rm.dgn PLOT DATE : 26 Nov 2024 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

N. 14TH STREET

N. 13TH STREET

N. 12TH STREET

N. 12TH LANE

W KNEELAND STREET

W. VLIET STREET

R/L W. VLIET STREET

IH-43

IH-43

MATCHLINE 54VL+00

55VL

60VL

55VL

REMOVING CATCH BASIN

REMOVING STORM SEWER

EXISTING SIDEWALK TO REMAIN

EXISTING TREE TO REMAIN

Fence end and gate

Need more building shots

Need more building shots

REMOVAL LEGEND

- REMOVING SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING STORM SEWER
- REMOVING CATCH BASIN
- XXXXX SAWCUT

NOTE:

REMOVE ENCOUNTERED BURIED TRACK. SEE TRACK ZONE LOCATION SHEETS FOR POSSIBLE LOCATIONS.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 39	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\110-22-02\104_rm.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 100:1

2

2

N

STREET

SHOOT BLDG CORNERS (NOT PORCH)

STREET

GET BUILDING/MISC SHOTS

GET BUILDING/MISC SHOTS

PLACE

FENCE SHOTS???

PICTURES?????

N. 27TH STREET

OLD C/L OF N. 27TH STREET

97'

33'

8.6'

N. 26TH STREET

N. 25TH STREET

TRACK ZONE STILL IN PLACE

N. 24TH PLACE

N. 24TH STREET

MATCHLINE 24VL+00

12VL

14VL

16VL

18VL

20VL

22VL

W. VLIET STREET

TRACK ZONE REMOVED (1976)
REPLACED WITH 9" CONCRETE

R/L W. VLIET STREET

N. 27TH STREET

N. 26TH STREET

N. 25TH STREET

N. 24TH PLACE

N. 24TH STREET

centerline shots

centerline shots
N 27TH

BUILDING DIMENSIONS WITH OFFSETS??? BLDG. #

SIDEWALK????

WALL/BLDG DIMENSIONS??? BLDG. #

BLDG SHOTS????

LANE MARKING SHOTS???

TRACK ZONE REMOVED

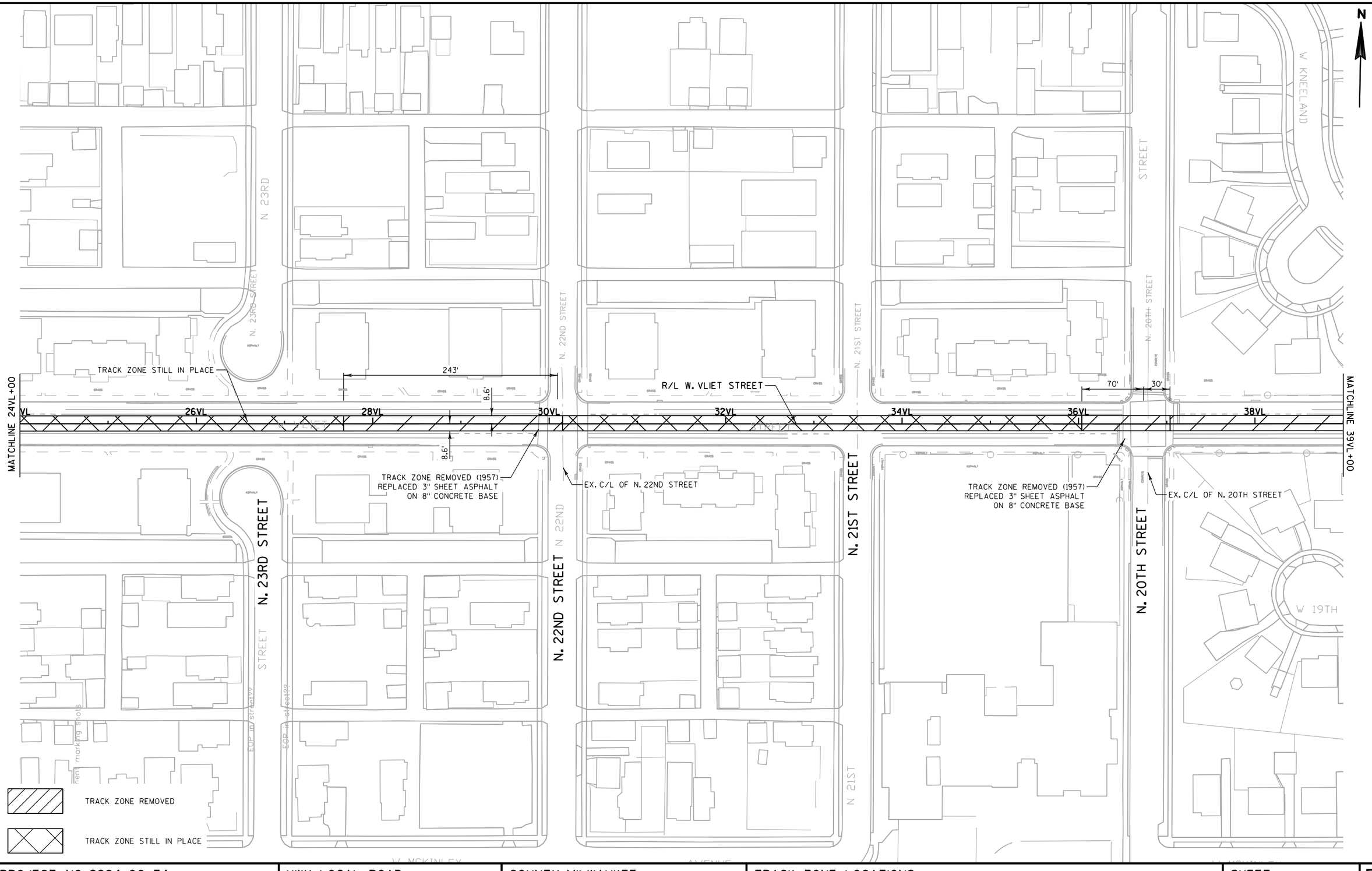
TRACK ZONE STILL IN PLACE

PROJECT NO: 2984-00-74	HWY: LOCAL ROAD	COUNTY: MILWAUKEE	TRACK ZONE LOCATIONS	SHEET 40	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Files\Track Zones\000001_xx.dgn PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2984-00-74	HWY: LOCAL ROAD	COUNTY: MILWAUKEE	TRACK ZONE LOCATIONS	SHEET 41	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\Xtra Data\PLOT_240520_ERL.dgn Tracks Zones000002_xx.dgn PLOT NAME : PLOT SCALE : 100:1

2

2

N

COURT

N 18TH

STREET

N. 18TH STREET

N. 17TH STREET

N. 17TH STREET

N. 15TH STREET

MATCHLINE 39VL+00

40VL

42VL

44VL

46VL

48VL

50VL

52VL

54

MATCHLINE 54VL+00

8.6'

8.6'

W VLIET

R/L W. VLIET STREET

TRACK ZONE REMOVED (1957)
REPLACED 3" SHEET ASPHALT
ON 8" CONCRETE BASE

N. 18TH STREET

N. 17TH STREET

COURT

N. 19TH STREET

W 18TH
COURT

STREET

centerline shots

centerline shots

N 17TH

West side of Bus Stop shelter

TRACK ZONE REMOVED

TRACK ZONE STILL IN PLACE

PROJECT NO: 2984-00-74	HWY: LOCAL ROAD	COUNTY: MILWAUKEE	TRACK ZONE LOCATIONS	SHEET 42	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\Track Zones\000003_xx.dgn

PLOT NAME :

PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

W. KNEELAND STREET

N. 14TH STREET

N. 13TH STREET

N. 12TH STREET

N. 12TH LANE

IH-43

IH 43

R/L W. VLIET STREET

EX. C/L OF N. 12TH STREET

MATCHLINE 54VL+00

56VL

58VL

60VL

62VL

64VL

64'

8.6'

8.6'

TRACK ZONE REMOVED (1957)
REPLACED 3" SHEET ASPHALT
ON 8" CONCRETE BASE

Fence end and gate

Need more building shots

Need more building shots

TRACK ZONE REMOVED

TRACK ZONE STILL IN PLACE

PROJECT NO: 2984-00-74	HWY: LOCAL ROAD	COUNTY: MILWAUKEE	TRACK ZONE LOCATIONS	SHEET 43	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\xt22148_PR0520_ERL01.dgn Tracks Zone 000004_xx.dgn

PLOT NAME :

PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

N. 27TH STREET

2 STORY BRICK & CONC. BLOCK BUILDING #2634

1 STORY BRICK & CONC. BLOCK BUILDING

2 STORY BRICK & CONC. BLOCK BUILDING

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST. CONTACT PROPERTY OWNER IF VAULT HAS NOT BEEN PROPERLY ABANDONED.

REMOVE SIDEWALK TO NEAREST JOINT

VL+01.70
32.27' LT

VL+16.66
32.31' LT

VL+69.11
23.00' LT

VL+59.11
23.00' LT

BEGIN PROJECT
10VL+69.11
X = 2548603.21
Y = 388941.41

VL+72.95
22.00' LT

2.6'

5.7'

10'

HW01

CM05

CG09

CM05

DR01

3'

11'

CP15

VL+04.92
24.58' LT

VL+10.92
24.58' LT

VL+30.92
24.58' LT

VL+36.92
24.58' LT

11VL

W. VLIET STREET

12VL

AP02

R/L VLIET STREET

MATCHLINE 12VL+50

VL+75.85
22.00' RT

VL+59.11
22.85' RT

3.1'

5.1'

CG09

VL+69.11
22.85' RT

REMOVE SIDEWALK TO NEAREST JOINT

VL+70.77
32.50' RT

VL+73.16
32.50' RT

HW01

CM05

CM05

VL+85.94
32.08' RT

VL+75.94
32.08' RT

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST.

2 STORY BRICK & CONC. BLOCK BUILDING

2 STORY BRICK/STUCCO BUILDING #2637

1 STORY CONC. BLOCK BUILDING #2631

P 85

P 82

LEGEND

- (AP02) ASPHALTIC SURFACE, 3-INCH
- (CP15) CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- (CG09) CONCRETE CURB AND GUTTER 31-INCH
- (CM05) CONCRETE SIDEWALK 5-INCH
- (DR01) CONCRETE DRIVEWAY 7-INCH
- (HW01) EXISTING HOLLOW WALK
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 44	E

2

N

P 78

G 65

P 81

P 80

P 70

1 STORY BRICK/CONC. BUILDING #2608

1 STORY STUCCO BUILDING #2604

1 STORY BRICK BUILDING

1 STORY BRICK BUILDING #2526

INSTALL CITY FURNISHED BIKE RACK

REMOVE SIDEWALK TO NEAREST JOINT

AP02

15'

15'

5.8'

5'

CP15

CP15

CM05

CG09

6.5'

CG23

N. 26TH STREET

VL+46.76
32.50'LT

VL+49.56
32.71'LT

VL+74.10
33.47'LT

VL+40.10
33.08'LT

VL+46.53
33.08'LT

NSA+33.08
17.00'LT

NSA+32.92
17.00'RT

VL+61.66
24.00'LT

VL+67.66
18.00'LT

VL+75.01
18.00'LT

VL+39.01
18.00'LT

VL+47.99
18.00'LT

VL+53.99
24.00'LT

MATCHLINE 12VL+50

13VL

14VL

W. VLIET STREET

15VL

MATCHLINE 15VL+50

R/L 26TH STREET

R/L VLIET STREET

VL+65.81
18.00'RT

VL+71.23
18.00'RT

VL+59.81
24.00'RT

VL+43.23
18.00'RT

VL+48.23
18.00'RT

VL+56.39
24.00'RT

VL+18.93
24.58'RT

VL+34.93
24.58'RT

VL+74.16
32.08'RT

VL+79.15
37.07'RT

NSA+61.90
16.00'LT

NSA+62.10
16.00'RT

VL+40.29
33.74'RT

VL+96.65
33.75'RT

VL+48.09
33.76'RT

VL+49.13
32.50'RT

DR01

REMOVE SIDEWALK TO NEAREST JOINT

INSTALL CITY FURNISHED BIKE RACK

1 STORY BRICK BUILDING #2527

2 1/2 STORY BRICK BUILDING #2515

1 STORY CONC. BLOCK BUILDING #2605

LEGEND

- APO2 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
1	2548908.48	388979.82	13VL+75.01	33.00'LT	15.00'
2	2548905.95	388905.95	13VL+71.23	38.00'RT	20.00'
3	2548972.47	388980.95	14VL+39.01	33.00'LT	15.00'
4	2548977.94	388910.03	14VL+43.23	38.00'RT	20.00'

2

2

N

P 66

P 63

G 31

G 16

2 1/2 STORY BRICK BUILDING #2506

2 1/2 STORY BRICK/STUCCO BUILDING #2500

REMOVE SIDEWALK TO NEAREST JOINT

CG09

CM05

AP02

15'

14.2'

14'

14'

10.5'

CP15

5

7

NSB+39.02
16.00' LT

NSB+38.98
16.00' RT

CG23

3'

3.4'

5'

DR01

VL+67.81
24.58' LT

VL+79.81
24.58' LT

VL+54.20
24.00' LT

VL+16.20
24.00' LT

N. 25TH STREET

16VL

W. VLIET STREET

17VL

18VL

R/L VLIET STREET

R/L 25TH STREET

10NSB

MATCHLINE 15VL+50

MATCHLINE 18VL+50

11'

CP15

VL+52.21
24.00' RT

VL+18.18
24.00' RT

NSB+60.93
18.00' LT

NSB+62.19
16.00' RT

6

8

9'

#2513

#2511

#2

#2505

INSTALL CITY FURNISHED BIKE RACK

NSB+58.66
29.83' LT

3 STORY BRICK BUILDING

REMOVE SIDEWALK TO NEAREST JOINT

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST.

NSB+40.66
29.86' LT

HW01

GRASS

CONCRETE

G 30

G 17

G 15

LEGEND

- APO2 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- HW01 EXISTING HOLLOW WALK
- LS01 LAWN SOD

P XX CONSTRUCTION PERMIT - PRIVATE

G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
5	2549187.52	388990.75	16VL+54.20	39.00' LT	15.00'
6	2549186.91	388912.73	16VL+52.21	39.00' RT	15.00'
7	2549249.50	388991.84	17VL+16.20	39.00' LT	15.00'
8	2549252.86	388913.90	17VL+18.18	39.00' RT	15.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 46	E

2

N

REMOVE SIDEWALK TO NEAREST JOINT

G 13

G 11

CG09

AP02

15'

REMOVE SIDEWALK TO NEAREST JOINT

5'

11'

11'

5.1'

CG09

CG23

CP15

CP15

CG23

9

NSC+33.04
13.00' RT

11

NSC+32.96
13.00' LT

CM05

5'

CM05

CM05

CG09

5'

CM05

13.5'

13.5'

VL+53.56
24.00' LT

VL+41.61
24.00' LT

CP15

CM05

CG09

CM05

VL+59.56
18.00' LT

VL+67.16
18.00' LT

VL+23.16
18.00' LT

VL+35.61
18.00' LT

CP15

MATCHLINE 18VL+50

CP15

19VL

W. VLIET STREET

N. 24TH PLACE

20VL

21VL

CP15

MATCHLINE 21VL+50

CP15

R/L 24TH PLACE

10

NSC

R/L VLIET STREET

CP15

VL+31.37
18.00' RT

VL+35.82
18.00' RT

CG09

VL+59.51
18.00' RT

VL+71.37
18.00' RT

5'

5'

CP15

11'

CM05

3.1'

CG09

VL+53.51
24.00' RT

VL+41.82
24.00' RT

3.1'

CM05

3.4'

3.4'

CM05

5'

CM05

5'

CM05

NSC+66.81
15.00' RT

12

NSC+67.19
15.00' LT

10

G 14

G 12

CG23

VL+65.13
35.16' RT

VL+90.91
35.05' RT

VL+22.36
33.97' RT

2 STORY BRICK BUILDING #2463-65

GRASS

5'

CP15

CP15

13'

13'

5'

VL+30.18
46.64' RT

CM05

1 STORY STUCCO/BRICK BUILDING

2 STORY BRICK/STONE UILDING

REMOVE SIDEWALK TO NEAREST JOINT

CM05

CG09

REMOVE SIDEWALK TO NEAREST JOINT

GRASS

GRASS

15'

AP02

CG09

G 10

P 61

P 60

P 58

LEGEND

- AP02 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD

P XX CONSTRUCTION PERMIT - PRIVATE

G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
9	2549500.53	388990.29	19VL+67.16	33.00' LT	15.00'
10	2549505.91	388924.23	19VL+71.37	33.00' RT	15.00'
11	2549556.52	388991.28	20VL+23.16	33.00' LT	15.00'
12	2549565.90	388925.43	20VL+31.37	33.00' RT	15.00'

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2

N

REMOVE SIDEWALK TO NEAREST JOINT

CG09 AP02 CM05 CP15 CG23 DR01 LS01

NSD+49.32 18.00' LT
NSD+44.32 13.00' LT
NSD+39.08 13.00' LT
NSD+38.92 13.00' RT
NSD+49.16 18.00' RT
NSD+44.16 13.00' RT

VL+34.14 24.58' LT
VL+46.88 24.58' LT
VL+04.31 24.00' LT
VL+60.31 24.00' LT
VL+20.44 24.00' LT

N. 24TH STREET

W. VLIET STREET

22VL 23VL 24VL

MATCHLINE 21VL+50

MATCHLINE 24VL+50

R/L VLIET STREET

R/L 24TH STREET

VL+89.57 24.58' RT
VL+02.57 24.58' RT
VL+14.57 24.58' RT
VL+26.57 24.58' RT
VL+03.77 24.00' RT
VL+64.78 18.00' RT

VL+54.67 34.01' RT
VL+11.35 33.02' RT
VL+12.36 33.18' RT
VL+40.50 33.39' RT

NSD+60.73 13.58' LT
NSD+62.31 13.00' RT
NSD+55.73 13.58' LT
NSD+50.49 18.00' LT
NSD+55.49 13.00' RT
NSD+50.49 18.00' RT

CONC. GRASS ASPHALT STORY CONC. BLOCK BUILDING #2499 GRASS ASPHALT GRASS

P 54 P 51 G 9 G 8

LEGEND

- APO2 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
13	2549837.46	389002.25	23VL+04.31	39.00' LT	15.00'
14	2549838.36	388924.25	23VL+03.77	39.00' RT	15.00'
15	2549893.52	389003.23	23VL+60.31	39.00' LT	15.00'
16	2549899.35	388926.33	23VL+64.78	38.00' RT	20.00'

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2

2

ASPHALT

N

GRASS

GRASS

GRASS

P 47

CM05

5'

9.1'

VL+68.44
18.00' LT

CG09

LS01

CP15

5'

9.1'

CM05

6'

CG09

LS01

VL+03.02
18.58' LT

VL+09.05
18.58' LT

5'

CP15

CP15

MATCHLINE 24VL+50

25VL

W. VLIET STREET

26VL

27VL

11'

CP15

MATCHLINE 27VL+50

CP15

R/L VLIET STREET

VL+09.87
18.58' RT

VL+03.87
18.58' RT

CP15

CP15

CG09

9.1'

LS01

9.1'

6'

CG09

LS01

CM05

5'

5'

CM05

P 48

GRASS

ASPHALT

LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- C XX CONSTRUCTION PERMIT - GOVERNMENT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 49	E

2

N

REMOVE SIDEWALK TO NEAREST JOINT

REMOVE SIDEWALK TO NEAREST JOINT

GRASS

GRASS

GRASS

GRASS

GRASS

GRASS

P 46

AP02

CG09

15'

6'

14'

14'

CP15

CP15

6'

19

17

NSE+39.24
16.00' RT

NSE+32.76
16.00' LT

N. 22ND STREET

CM05

CM05

5'

9.1'

CG09

LS01

CG09

CG09

CG23

VL+46.22
24.00' LT

CP15 5'

CP15 11'

28VL

W. VLIET STREET 29VL

5'

11'

VL+84.17
18.00' LT

CP15 30VL

R/L 22ND STREET

MATCHLINE 27VL+50

MATCHLINE 30VL+50

IONSE

CP15 11'

CP15 11'

CP15 5'

R/L VLIET STREET

11'

VL+76.29
18.00' RT

VL+24.29
24.00' RT

3.1'

CP15

CG09

VL+84.41
24.00' RT

CG09

9.1'

CG09

LS01

CG09

CG23

5'

CM05

NSE+60.73
16.00' LT

NSE+62.31
16.00' RT

18

CM05

5'

CP15

CP15

14'

14'

GRASS

GRASS

P 45

REMOVE SIDEWALK TO NEAREST JOINT

CG09

CM05

15'

AP02

REMOVE SIDEWALK TO NEAREST JOINT

LEGEND

- AP02 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
17	2550517.39	389008.27	29VL+84.17	33.00' LT	15.00'
18	2550518.90	388936.29	29VL+75.41	39.00' RT	15.00'
19	2550579.32	389015.37	30VL+46.22	39.00' LT	15.00'
20	2550585.88	388938.47	30VL+51.42	38.00' RT	20.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

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2

2

N

P 44

GRASS

GRASS

GRASS

GRASS

GRASS

CG09

REMOVE SIDEWALK TO NEAREST JOINT

AP02

15'

CM05

6'

14'

CG23

CP15

21

NSF+37.98
16.00' LT

N. 21ST STREET

CG09

CM05

5'

5'

8'

LS01

CG09

CG09

CG09

VL+06.35
24.00' LT

VL+54.35
18.00' LT

CP15

VL+13.12
18.00' LT

CP15

11'

5'

MATCHLINE 30VL+50

31VL

W. VLIET STREET 32VL

33VL

CP15

CP15

11'

11'

CP15

R/L VLIET STREET

CP15

R/L 21ST STREET

10NSF

MATCHLINE 33VL+50

CP15

5'

5'

CP15

VL+18.78
18.00' RT

VL+51.42
18.00' RT

CG09

9.1'

LS01

CG09

NSF+67.05
16.00' LT

CM05

5'

CM05

22

20

GRASS

P 43

GRASS

CM05

6'

CP15

14'

REMOVE SIDEWALK TO NEAREST JOINT

CG09

GRASS

AP02

LEGEND

- AP02 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
21	2550845.93	389019.13	33VL+13.12	38.00' LT	20.00'
22	2550853.11	388948.20	33VL+18.78	36.00' RT	15.00'

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WISDOT/CADDS SHEET 42

2

N

REMOVE SIDEWALK TO NEAREST JOINT

AP02 CG09 CM05 CP15 CG23 LS01

GRASS

P 42

25

NSF+38.02
16.00' RT

VL+85.12
18.00' LT

VL+34.79
18.00' LT

MATCHLINE 33VL+50

34VL

W. VLIET STREET

35VL

36VL

MATCHLINE 36VL+50

R/L VLIET STREET

5' 11' 9.1' 3.1'

VL+80.78
18.00' RT

VL+42.46
18.00' RT

NSF+66.95
16.00' RT

VL+90.46
24.00' RT

24

ASPHALT

G 7

15'

REMOVE SIDEWALK TO NEAREST JOINT

ASPHALT TRANSITION SEE DETAIL

LEGEND

- AP02 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
23	2550918.18	389020.36	33VL+85.12	38.00' LT	20.00'
24	2550915.10	388949.29	33VL+80.78	33.00' RT	15.00'

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2

2

N

REMOVE SIDEWALK TO NEAREST JOINT

CONRETE

GRASS

GRASS

GRASS

N. 20TH STREET

R/L 20TH STREET

37VL

W. VLIET STREET 38VL

39VL

R/L VLIET STREET

MATCHLINE 36VL+50

MATCHLINE 39VL+50

10%SG

ASPHALT

CONRETE

GRASS

GRASS

NSG+44.43
14.00' RT

NSG+49.43
19.00' RT

NSG+42.77
19.00' LT

NSG+39.18
14.00' RT

VL+07.81
24.00' LT

VL+67.94
24.00' LT

VL+15.94
18.00' LT

VL+17.54
18.00' RT

VL+50.58
24.00' RT

NSG+60.98
13.00' LT

NSG+55.74
13.00' LT

NSG+49.74
19.00' LT

NSG+62.06
19.00' RT

P 34

P 25

P 26

27

28

26

REMOVE SIDEWALK TO NEAREST JOINT

REMOVE SIDEWALK TO NEAREST JOINT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
25	2551167.66	389029.77	36VL+34.79	43.00' LT	25.00'
26	2551184.96	388948.07	36VL+50.58	39.00' RT	15.00'
27	2551240.77	389027.09	37VL+07.81	39.00' LT	15.00'
28	2551251.94	388950.29	37VL+17.54	38.00' RT	20.00'

LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

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WISDOT/CADDS SHEET 42

2

2

N

P 29

CM05

LS01

CG09

5'

9.1'

CP15

5'

11'

11'

5'

40VL

W. VLIET STREET

41VL

42VL

R/L VLIET STREET

MATCHLINE 39VL+50

MATCHLINE 42VL+50

GRASS

GRASS

P 24

P 2

LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD

P XX CONSTRUCTION PERMIT - PRIVATE

G XX CONSTRUCTION PERMIT - GOVERNMENT

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WISDOT/CADDS SHEET 42

2

2

N

REMOVE SIDEWALK TO NEAREST JOINT

CG09

ASPHALT

5'

CM05

GRASS

CG23

29

P 28

NSH+41.11
17.01' RT

15'

15'

CP15

N. 18TH STREET

NSH+31.48
17.00' LT

CG09

REMOVE SIDEWALK TO NEAREST JOINT

31

P 90

CM05

LS01

9.1'

VL+06.42
18.00' LT

VL+70.79
24.00' LT

VL+30.91
24.00' LT

VL+78.91
18.00' LT

MATCHLINE 42VL+50

43VL

W. VLIET STREET

44VL

45VL

MATCHLINE 45VL+50

11'

R/L VLIET STREET

R/L 18TH STREET

10 INCH

VL+06.23
18.00' RT

VL+70.23
18.00' RT

VL+32.22
18.00' RT

NSH+67.00
17.00' LT

NSH+67.00
17.00' RT

30

32

6'

6.5'

CONCRETE

P 94

GRASS

REMOVE SIDEWALK TO NEAREST JOINT

LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
29	2551937.39	389032.27	43VL+06.43	33.00' LT	15.00'
30	2551840.43	388966.28	43VL+06.23	33.00' RT	15.00'
31	2551903.63	389039.47	43VL+70.79	39.00' RT	15.00'
32	2551904.41	388967.47	43VL+70.23	33.00' RT	15.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 55	E

2

N

REMOVE SIDEWALK TO NEAREST JOINT

CG09 CG09 CG09 CG09 CG09 CG09 CG09 CG09 CG09 CG09

GRASS CONCRETE GRASS GRASS GRASS

AP02 AP02 AP02 AP02

15' 15' 15' 15'

10' 11' 11' 10' 11' 11' 10' 10' 11' 11' 10'

CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15 CP15

5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'

CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05 CM05

LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01 LS01

9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1' 9.1'

3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1' 3.1'

11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11' 11'

BUS

N. 17TH STREET NB

N. 17TH STREET SB

W. VLIET STREET

MATCHLINE 45VL+50

MATCHLINE 48VL+50

46VL

47VL

48VL

R/L 17TH STREET SB

R/L VLIET STREET

R/L 17TH STREET NB

10NSI

10NSJ

VL+30.69
18.00' LT

VL+40.34
24.00' RT

VL+80.22
24.00' RT

NSI+37.80
23.00' LT

NSI+52.34
23.00' RT

NSI+25.84
30.60' RT

NSJ+51.67
13.00' LT

NSJ+26.59
20.34' LT

NSJ+49.42
23.00' RT

NSJ+44.42
18.00' RT

NSJ+39.18
18.00' RT

VL+62.75
24.00' LT

VL+72.34
18.00' RT

VL+77.58
18.00' RT

VL+83.58
24.00' RT

NSI+74.33
20.32' RT

NSJ+74.07
30.58' LT

NSI+60.85
18.00' LT

NSI+55.61
18.00' LT

NSI+50.61
23.00' LT

NSI+55.11
13.47' RT

NSJ+47.60
23.00' LT

NSJ+62.23
23.00' RT

33 34 35 36 37 38 39 40 41 42

G 4

G 41

REMOVE SIDEWALK TO NEAREST JOINT

REMOVE SIDEWALK TO NEAREST JOINT

REMOVE SIDEWALK TO NEAREST JOINT

LEGEND

- APO2 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
33	2552163.51	389043.32	46VL+30.69	38.00' LT	20.00'
34	2552174.59	388966.51	46V+40.34	39.00' RT	15.00'
35	2552199.36	389057.99	46VL+66.81	52.00' LT	50.00'
36	2662190.75	388953.81	46VL+56.26	52.00' RT	50.00'
37	2552239.79	389034.02	47VL+06.79	27.28' LT	3.00'
38	2552230.29	388979.22	46VL+96.26	27.34' RT	3.00'
39	2552279.29	389059.48	47VL+46.76	52.00' LT	50.00'
40	2552270.86	388955.31	47VL+36.28	52.00' RT	50.00'
41	2552295.52	389046.78	47VL+62.75	39.00' LT	15.00'
42	2552306.54	388969.98	47VL+72.34	38.00' RT	20.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Details\63342_PLAN_DETAILS_2013_pdt.dgn PLOTTED : 10/16/2023 11:46:45 AM PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

2

2

N

GRASS

GRASS

GRASS

GRASS

GRASS

GR

CG09 CM05 5' LS01 5' CM05 CG09

CP15 11' 11' CP15

CP15 11' 49VL W. VLIET STREET 50VL 11' 51VL CP15

MATCHLINE 48VL+50

MATCHLINE 51VL+50

CP15 11' R/L VLIET STREET 11' CP15

CP15 11' VL+85.35 24.58' RT 11' CP15 VL+20.35 24.58' RT LS01

LS01 DR01

CG09 5' CM05 5' CG09

3'

ASPHALT

GRASS

G 41

LEGEND

CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED

CG09 CONCRETE CURB AND GUTTER 31-INCH

CM05 CONCRETE SIDEWALK 5-INCH

DR01 CONCRETE DRIVEWAY 7-INCH

LS01 LAWN SOD

P XX CONSTRUCTION PERMIT - PRIVATE

G XX CONSTRUCTION PERMIT - GOVERNMENT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 57	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod\2023 11 Plan Set\PLOT DATE : 3/16/2023 11:46:19 AM

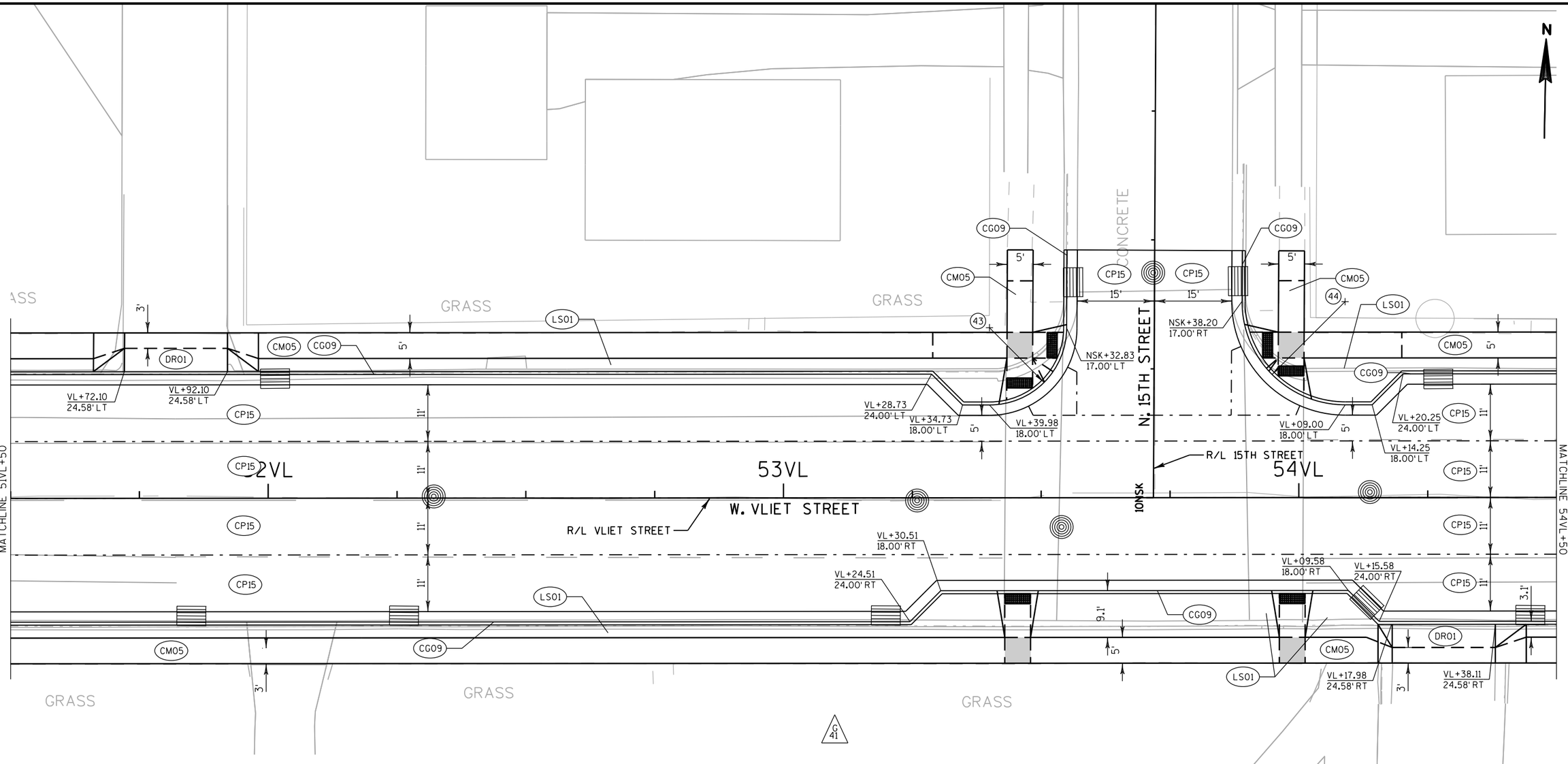
USER NAME : dbaumann

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

2



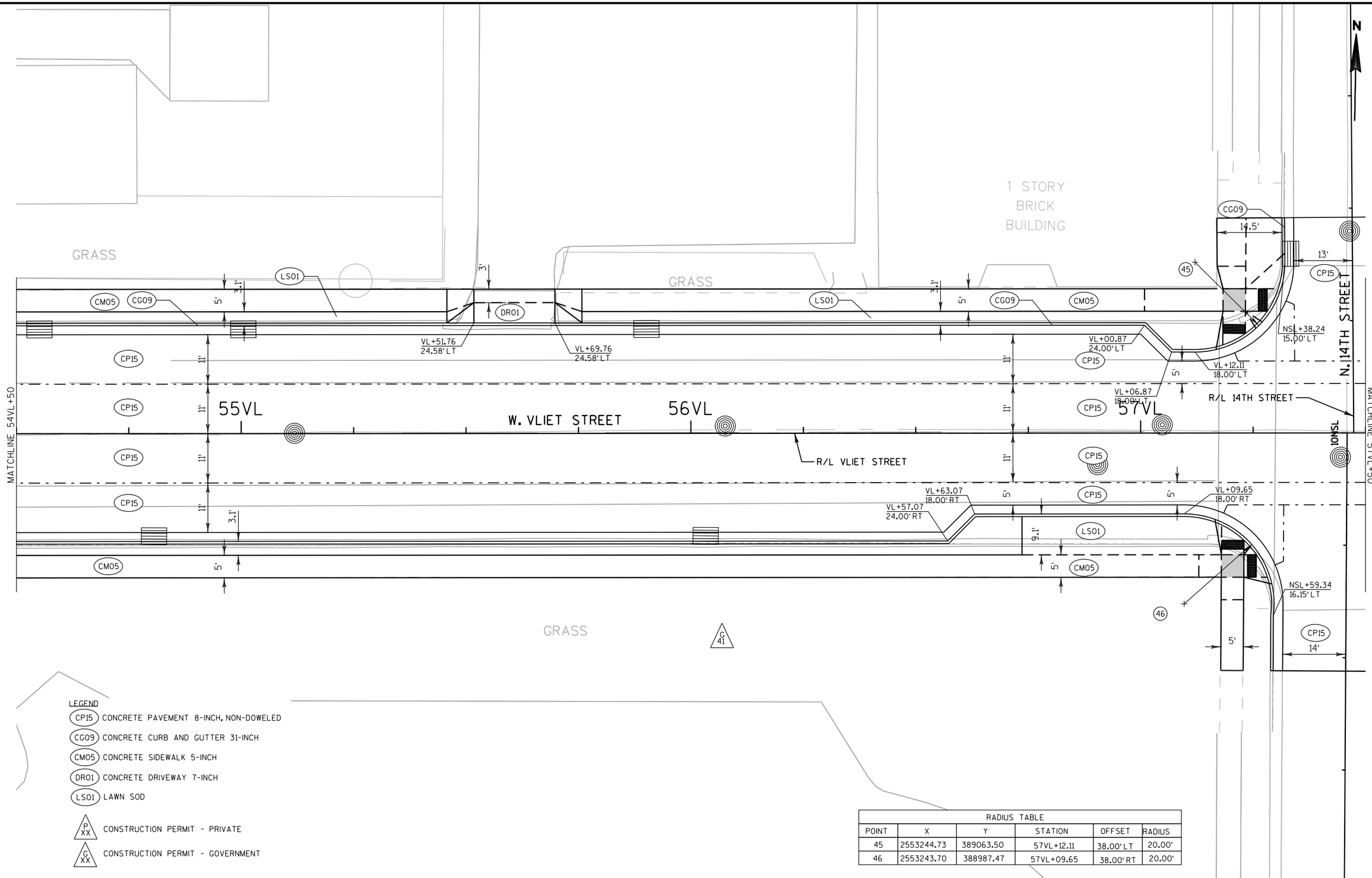
LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
43	2552872.76	389051.56	VL53+39.98	33.00' LT	15.00'
44	2552941.68	389057.85	VL54+09.00	38.00' LT	20.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 58	E

2



LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
45	2553244.73	389063.50	57VL+12.11	38.00' LT	20.00'
46	2553243.70	388987.47	57VL+09.65	38.00' RT	20.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 59	E

2

2

N

INSTALL CITY FURNISHED BIKE RACK

CG09

13.5'

NSL+37.76
15.00'RT

48

CG23

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST. CONTACT PROPERTY OWNER IF VAULT HAS NOT BEEN PROPERLY ABANDONED.

1 STORY BRICK BUILDING

1 STORY BRICK/STONE /FRAME BUILDING

1 STORY BRICK BUILDING

2 STORY BRICK/FRAME BUILDING #1328

3 STORY BRICK/CONC. BUILDING #1322-1324

1 STORY METAL STRUCTURE

GRASS

1 STORY METAL BUILDING #1312

VL+68.75
32.08'LT

VL+92.80
32.08'LT

CP15 | CG09 | CM05 | 5' | HW01 | LS01 | 3.1' | CG09 | CM05 | 5'

VL+93.35
24.00'LT

VL+82.11
18.00'LT

VL+87.35
18.00'LT

5'

CP15 | 11'

58VL | 59VL | 60VL

W. VLIET STREET

R/L VLIET STREET

MATCHLINE 57VL+50

MATCHLINE 60VL+50

VL+76.69
18.00'RT

VL+83.88
18.00'RT

VL+89.88
24.00'RT

VL+26.48
24.58'RT

VL+41.48
24.58'RT

CP15 | 11' | 3.1' | CG09 | CM05 | 5' | LS01 | DR01 | 3'

47

NSL+67.21
16.00'RT

4.5'

6'

P 39

GRASS

3 STORY STUCCO/BRICK BUILDING #1335

1 1/2 STORY STONE/BRICK/FRAME BUILDING #1327-1323

G 6

G 5

GRASS

2 STORY STONE/BRICK BUILDING #1307-1311

GRASS

LEGEND

- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 7-INCH
- HW01 EXISTING HOLLOW WALK
- LS01 LAWN SOD

P XX CONSTRUCTION PERMIT - PRIVATE

G XX CONSTRUCTION PERMIT - GOVERNMENT

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	RADIUS
47	2553310.63	388993.72	57VL+76.69	33.00'RT	15.00'
48	255314.72	389064.81	57VL+82.11	38.00'LT	20.00'

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 60	E

2

N

3 STORY
BRICK
BUILDING
#1220

GRASS

AP02 15'

CG09 5' 18' 18' 5'

CP15 CP15

NSM+48.97
20.00'LT

NSM+42.97
14.00'LT

NSM+50.47
20.00'RT

NSM+44.47
14.00'RT

CG23

49 52

LS01

CM05 5' 3.1'

NSM+37.73
14.00'LT

NSM+39.23
14.00'RT

EXISTING SIDEWALK TO REMAIN

EXISTING TREE AND PLANTER TO REMAIN

INSTALL CITY FURNISHED BIKE RACK

EXISTING TREE AND PLANTER TO REMAIN

CM05

VL+33.08
29.60'LT

VL+43.08
29.60'LT

VL+07.18
29.82'LT

VL+17.18
29.83'LT

2.6'

5'

VL+76.13
24.00'LT

VL+87.39
18.00'LT

VL+50.40
24.00'LT

VL+33.08
24.58'LT

VL+43.08
24.58'LT

VL+07.18
24.58'LT

VL+17.18
24.58'LT

11' 11' 11' 11' 11' 11'

CP15

VL+82.13
18.00'LT

MATCHLINE 60VL+50

R/L 13TH STREET

61VL

62VL

W. VLIET STREET

63VL

MATCHLINE 63VL+50

IONSM

IONSN

R/L VLIET STREET

R/L 12TH STREET

N. 12TH LANE

VL+87.06
24.00'RT

VL+55.12
18.00'RT

VL+64.36
18.00'RT

VL+70.36
24.00'RT

VL+13.92
24.00'RT

VL+47.17
24.00'RT

3.1'

N. 13TH STREET

CM05 LS01

NSM+55.72
14.00'LT

NSM+62.28
14.00'RT

NSM+50.48
14.00'LT

NSM+50.48
14.00'RT

NSM+44.48
20.00'LT

NSM+44.48
20.00'RT

50 51 53 54

CG23

VL+17.31
32.08'RT

HW01

VL+32.18
32.08'RT

VL+50.11
32.08'RT

VL+80.11
32.08'RT

HW01

NSN+71.00
11.25'LT

NSN+71.00
12.00'RT

10' 10'

CG09

2 1/2 STORY
INSTALL CITY FURNISHED BIKE RACK
BUILDING
#1301

1 1/2 STORY
FRAME/BRICK
BUILDING

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST.

2 STORY
FRAME/BRICK
BUILDING
#1233

GRASS

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST.

P 38

P 36

APO2 15'

RADIUS TABLE					
POINT	X	Y	STATION	OFFSET	RADIUS
49	2553619.95	389070.51	60VL+87.39	38.00'LT	20.00'
50	2553621.16	388988.52	60VL+87.06	44.00'RT	20.00'
51	2553689.08	388995.79	61VL+55.12	38.00'RT	20.00'
52	2553682.93	389072.68	61VL+50.40	39.00'LT	15.00'
53	2553847.66	389007.62	63VL+13.92	29.00'RT	5.00'
54	2553880.91	389008.21	63VL+47.17	29.00'RT	5.00'

LEGEND

- APO2 ASPHALTIC SURFACE, 3-INCH
- CP15 CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- CG09 CONCRETE CURB AND GUTTER 31-INCH
- CG23 CONCRETE CURB PEDESTRIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- HW01 EXISTING HOLLOW WALK
- LS01 LAWN SOD
- P XX CONSTRUCTION PERMIT - PRIVATE
- G XX CONSTRUCTION PERMIT - GOVERNMENT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 61	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod\2023_1_4_63342018_pdf.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

2

N

EXISTING TREE AND PLANTER TO REMAIN

EXISTING TREE AND PLANTER TO REMAIN

INSTALL CITY FURNISHED BIKE RACK

VL+77.27
29.76'LT

VL+87.27
29.76'LT

VL+49.77
30.01'LT

VL+59.77
30.01'LT

8'

2.6'

CM05

VL+77.27
24.58'LT

VL+87.27
24.58'LT

CM05

VL+24.99
24.00'LT

VL+49.77
25.39'LT

VL+59.77
25.71'LT

END PROJECT
64VL+74.79
X = 2554008.00
Y = 389039.46

N. 12TH STREET

CP15

11'

64VL

W. VLIET STREET

AP02

65VL

CP15

11'

R/L VLIET STREET

15'

MATCHLINE 63VL+50

CP15

11'

CP15

CM05

CM05

7.5'

HW01

VL+20.49
34.58'RT

P
35

INSTALL CITY FURNISHED BIKE RACK

GRASS

2 STORY BRICK BUILDING #1215

2 STORY BRICK BUILDING #1211

2 STORY BRICK BUILDING #1207

2 STORY BRICK BUILDING #1201

VOID BENEATH SIDEWALK. TO BE ABANDONED BY OWNER PRIOR TO CONST. CONTACT PROPERTY OWNER IF VAULT HAS NOT BEEN PROPERLY ABANDONED.

LEGEND

- (AP02) ASPHALTIC SURFACE, 3-INCH
- (CP15) CONCRETE PAVEMENT 8-INCH, NON-DOWELED
- (CG09) CONCRETE CURB AND GUTTER 31-INCH
- (CM05) CONCRETE SIDEWALK 5-INCH
- (HW01) EXISTING HOLLOW WALK
- (LS01) LAWN SOD

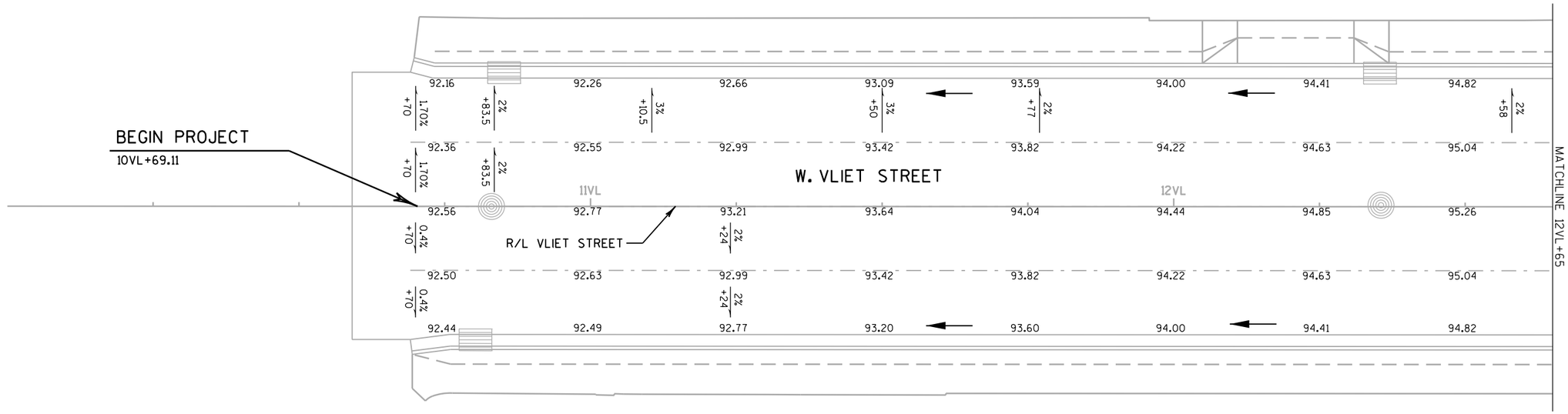
P XX — CONSTRUCTION PERMIT - PRIVATE

G XX — CONSTRUCTION PERMIT - GOVERNMENT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 62	E

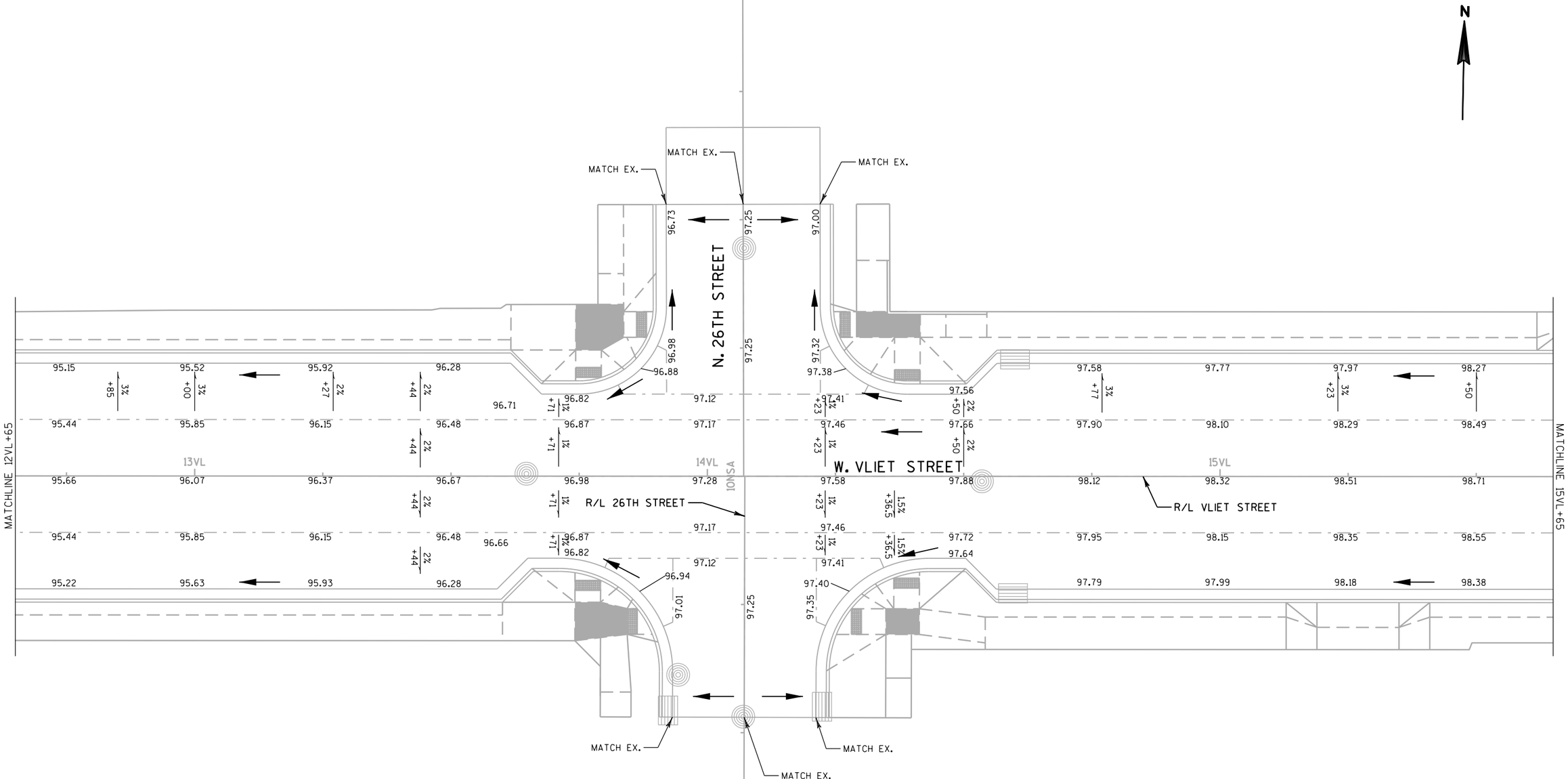
2

N



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 63	E

2



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 64	E

2

N

MATCH EX.

MATCH EX.

MATCH EX.

N. 25TH STREET

W. VLIET STREET

R/L 25TH STREET

R/L VLIET STREET

MATCHLINE 15VL+65

MATCHLINE 18VL+65

16VL

17VL

18VL

10NSB

98.47 98.67 99.09 99.60 99.70 99.77 99.85 99.96 100.21 100.53 100.70 100.88

98.69 98.89 99.25 99.67 99.75 99.83 99.92 100.14 100.43 100.75 100.92 101.10

98.91 99.11 99.42 99.73 99.81 99.88 100.00 100.32 100.65 100.97 101.14 101.32

98.74 98.94 99.25 99.67 99.75 99.82 99.92 100.16 100.43 100.75 100.92 101.10

98.58 98.78 99.09 99.60 99.69 99.77 99.85 99.99 100.21 100.42 100.59 100.77

99.57 99.60 99.70 99.70 99.70

99.63 99.71

99.61 99.65 99.74 99.76 99.77

2% +11.5 0.5% +52 0.5% +19 2% +59.5

2% +11.5 0.5% +52 0.5% +19 2% +59.5

2% +25 0.5% +52 0.5% +19 1.5% +46 1.5% +60 2% +73.5

2% +25 0.5% +52 0.5% +19 1.5% +46 1.5% +60 2% +73.5 3% +02

MATCH EX.

MATCH EX.

MATCH EX.

MATCH EX.

MATCH EX.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\3142088021803_pg2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

2

N

MATCH EX.

MATCH EX.

MATCH EX.

N. 24TH PLACE

W. VLIET STREET

19VL

20VL

21VL

MATCHLINE 18VL+65

MATCHLINE 21VL+65

R/L 24TH PLACE

R/L VLIET STREET

101.05 101.23 101.42 101.70 101.93 102.08 101.96 102.00 102.16 102.17 102.23 102.24 102.40 102.36 102.35 102.47 102.59 102.66

101.27 101.45 101.64 101.88 102.13 102.29 102.45 102.54 102.63 102.75 102.87 102.99

101.49 101.67 101.86 102.06 102.24 102.40 102.56 102.72 102.85 102.97 103.09 103.21

101.27 101.45 101.71 102.01 102.06 102.18 102.34 102.51 102.53 102.60 102.65 102.78 102.90 103.02

100.95 101.23 101.55 101.95 102.16 102.23 102.32 102.48 102.56 102.47 102.46 102.58 102.70 102.83

102.29 102.46 102.46

102.41 102.84 102.58

MATCH EX.

MATCH EX.

MATCH EX.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 66	E

2

N

MATCH EX.
MATCH EX.
MATCH EX.
MATCH EX.
MATCH EX.

102.77 102.90 102.96 103.25 103.30 103.14
103.15 102.92 102.80 102.99 103.31 103.32 103.26

N. 24TH STREET

102.78 102.90 103.03 103.03 +49 3% 103.04 103.19 +03 1% 103.30
103.39 +65 1% 103.40 +92 2% 103.34 103.44 103.59

103.11 103.23 103.36 103.35 103.27 +76 2% 103.31 +03 1% 103.41
103.50 +65 1% 103.55 +92 2% 103.56 103.65 103.74

MATCHLINE 21VL+65

22VL 23VL

R/L 24TH STREET

W. VLIET STREET

24VL

MATCHLINE 24VL+65

103.33 103.45 103.58 103.57 103.49 103.43 103.52
103.61 103.70 103.78 103.87 103.96

R/L VLIET STREET

103.14 103.26 103.38 103.38 103.32 +69.25 1.75% 103.37 +03 0.5% 103.47
103.55 +65 0.5% 103.60 103.59 +05.5 2% 103.65 103.74

102.95 103.07 103.19 103.19 103.15 103.30 103.44
103.53 103.56 103.50 103.55 103.64

103.42 103.49 103.60 103.55 103.50

103.96 103.98 104.28 103.91 103.91

MATCH EX.
MATCH EX.
MATCH EX.
MATCH EX.
MATCH EX.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 67	E

2

N

MATCHLINE 24VL+65

103.73 103.81 103.90 103.99 104.08 104.15 104.23 104.30 104.38 104.45 104.38 104.30
103.83 103.92 104.00 104.09 104.18 104.25 104.33 104.40 104.48 104.55 104.48 104.40

W. VLIET STREET

25VL 26VL 27VL
104.05 104.13 104.22 104.31 104.40 104.47 104.55 104.62 104.70 104.77 104.70 104.62

R/L VLIET STREET

103.83 103.91 104.00 104.09 104.18 104.25 104.33 104.40 104.48 104.55 104.48 104.40
103.73 103.81 103.90 103.99 104.08 104.15 104.23 104.30 104.38 104.45 104.38 104.30

MATCHLINE 27VL+65

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 68	E

2

N

MATCH EX.

MATCH EX.

MATCH EX.

N. 22ND STREET

W. VLIET STREET

R/L 22ND STREET

R/L VLIET STREET

MATCHLINE 27VL+65

MATCHLINE 30VL+65

28VL

29VL

30VL

104.25 104.26 104.32 104.44 104.59 104.74 104.83 104.93 105.08 105.27 105.37 105.40

104.35 104.36 104.42 104.54 104.69 104.84 104.93 105.03 105.16 105.32 105.42 105.51

104.57 104.58 104.64 104.76 104.91 105.06 105.15 105.25 105.34 105.43 105.53 105.62

104.35 104.36 104.42 104.54 104.69 104.84 104.93 105.05 105.25 105.38 105.47 105.57

104.25 104.26 104.32 104.44 104.59 104.68 104.71 104.86 105.16 105.35 105.45 105.54

105.15 105.21 105.30 105.23 105.19

105.30 105.35 105.52 105.45 105.43

105.51 105.99 105.52

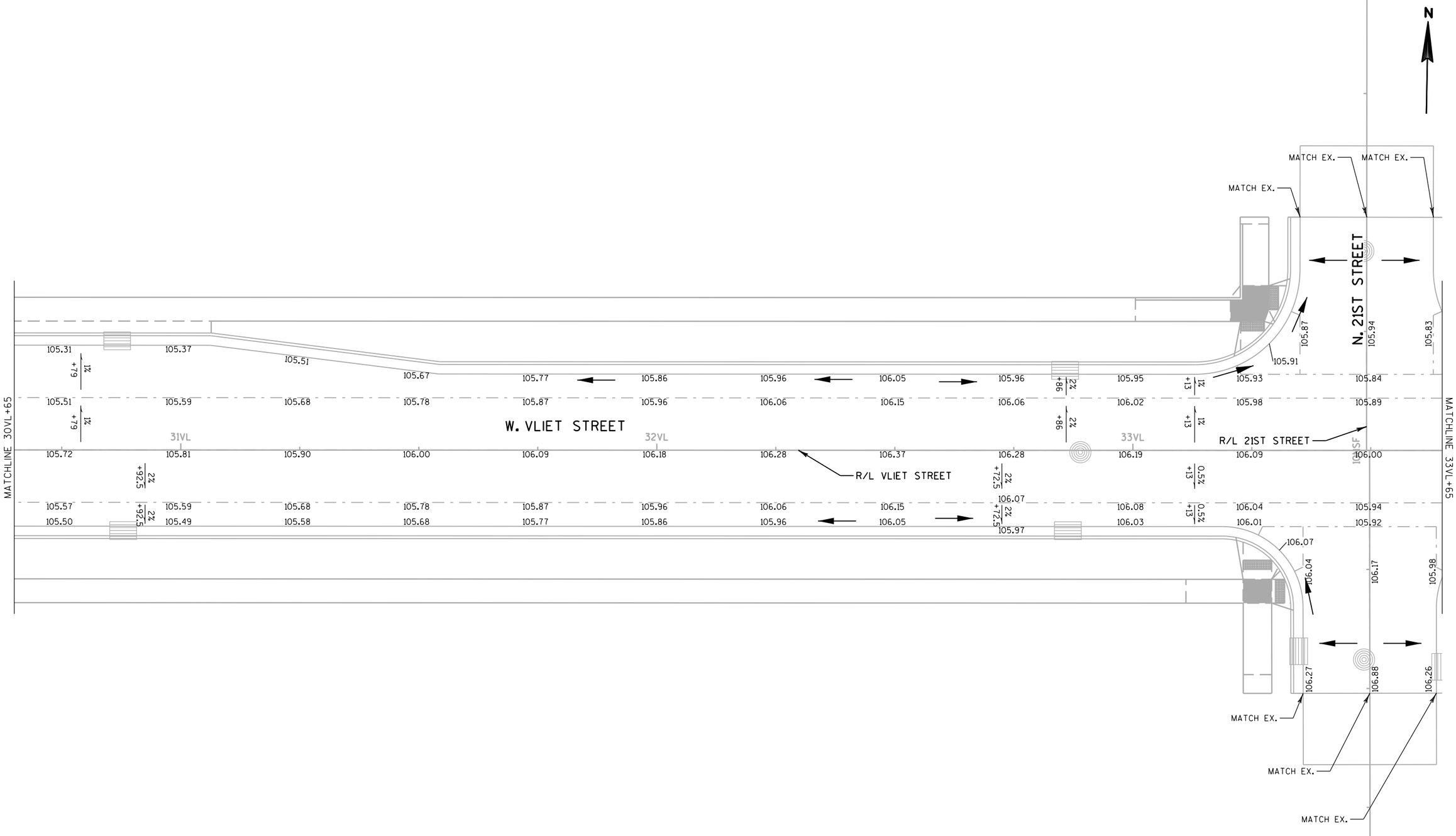
+65 2% +65 2% +43.5 2% +43.5 2%

+62 1% +62 1% +84 0.5% +84 0.5%

+52 1% +52 1% +52 0.5% +52 0.5%

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 69	E

2



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 70	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Sheets\63342_2808_pg102.dgn PLOT DATE : 7 Oct 2022 11:43:38 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

2

N

MATCH
EXISTING

102.91

103.36

103.43

103.66

MATCHLINE 33VL+65

MATCHLINE 36VL+65

W. VLIET STREET

R/L VLIET STREET

34VL

35VL

36VL

105.75 +98 1% 105.57 +13 2% 105.40 105.19 104.98 104.78 104.57 104.36 104.15 +75 2% 104.02 103.90 +25 1%

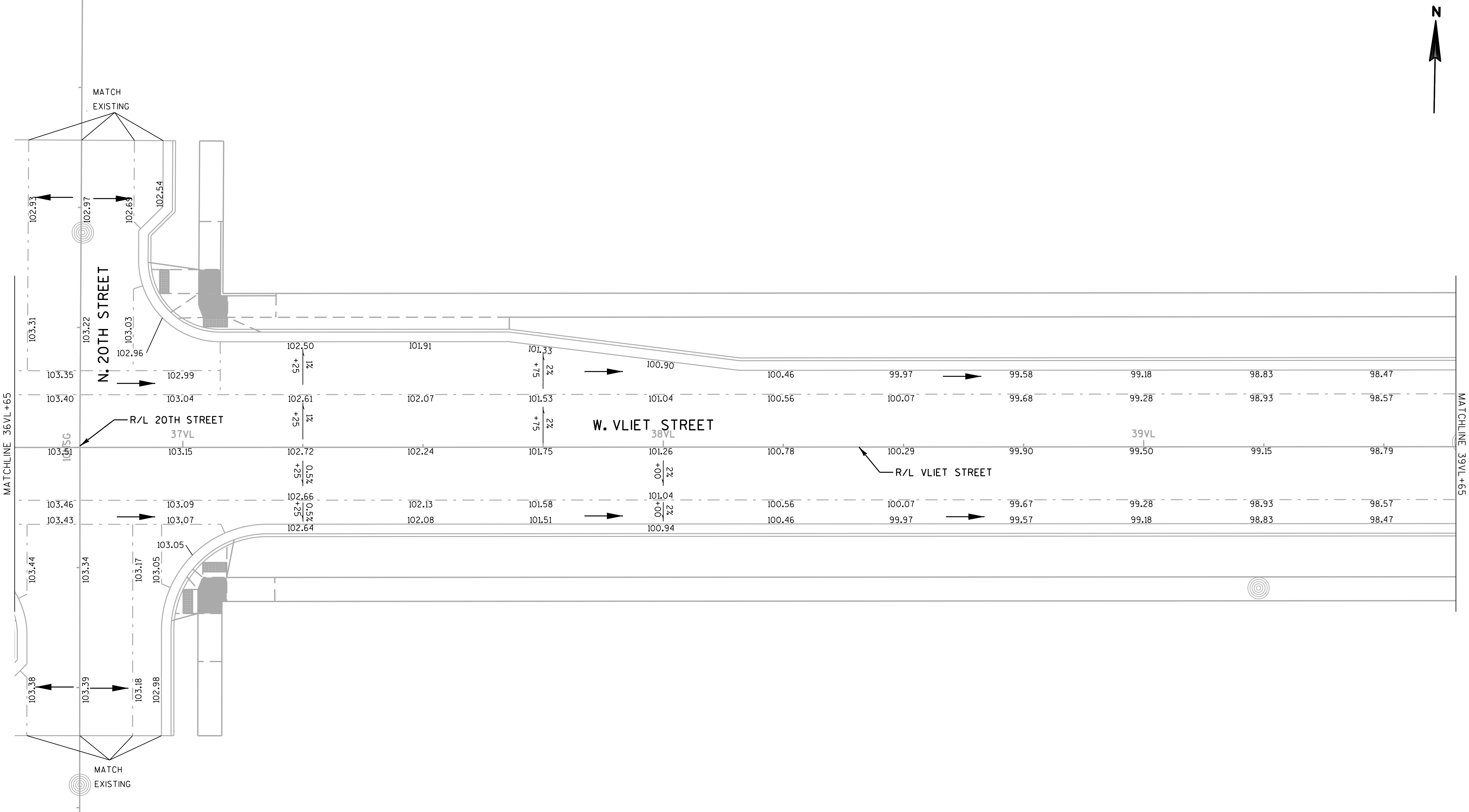
105.80 +98 1% 105.65 +13 2% 105.50 105.29 105.08 104.88 104.67 104.46 104.25 +75 2% 104.10 103.95 +25 1% 103.71

105.91 +86 0.5% 105.81 105.72 +26.5 2% 105.51 105.30 105.10 104.89 104.68 +50 2% 104.47 104.26 104.06 +25 0.5% 103.82

105.85 +86 0.5% 105.70 105.51 +26.5 2% 105.29 105.08 104.88 104.67 104.46 +50 2% 104.31 104.15 104.00 +25 0.5% 103.76

105.83 105.65 105.41 105.19 104.98 104.78 104.57 104.34 104.17 104.04 103.95 103.71 103.42

103.34



PROJECT NO: 2984-00-74	HWY:LOCAL STREET	COUNTY:MILWAUKEE	PAVING GRADES	SHEET 72	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Technical Production\3143d330M810_pg.dgn PLOT DATE : 7/6/2022 3:43:33 PM PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

2

2

N

MATCHLINE 39VL+65

MATCHLINE 42VL+65

W. VLIET STREET

R/L VLIET STREET

98.12	97.80	97.58	→	97.46	←	97.45	97.54	97.64	97.74	←	97.85	97.95	→	97.95	97.87
98.22	97.90	97.68		97.56		97.55	97.64	97.74	97.84		97.95	98.05		98.05	97.97
	40VL						41VL					42VL			
98.44	98.12	97.90		97.78		97.77	97.86	97.96	98.06		98.17	98.27		98.27	98.19
98.22	97.90	97.68		97.56		97.55	97.64	97.74	97.84		97.95	98.05		98.05	97.97
98.12	97.80	97.58	→	97.46	←	97.45	97.54	97.64	97.74	←	97.85	97.95	→	97.95	97.87

2

N

MATCH EXISTING

MATCH EXISTING

98.05

98.31

98.97

N. 18TH STREET

97.93

98.06

98.03

97.93

98.03

98.20

98.30

98.29

98.24

98.23

98.16

98.24

98.31

97.80 +79 2%

97.85 +90 1%

98.01

98.13

+13 1%

+40 2.0%

97.90

97.91

98.06

98.18

98.31

98.41

98.45

98.41

98.34

98.26

98.34

98.41

MATCHLINE 42VL+65

+79 2%

+90 1%

W. VLIET STREET

+13 1%

+40 2.0%

MATCHLINE 45VL+65

43VL

44VL

45VL

98.12

98.04

98.17

98.29

98.42

98.52

98.61

98.63

98.56

98.48

98.56

98.63

+79 2%

+90 1%

R/L 18TH STREET

+71 1%

98+ 2%

98.29

98.39

97.90 +79 2%

97.91 +90 1%

98.06

98.18

+71 1%

98.30

+25 3%

98.41

98.34

98.26

98.34

98.41

97.80

97.85

98.01

98.13

98.23

98.19

98.24

98.26

98.19

98.11

98.19

+50 3%

98.20

97.82

98.04

R/L VLIET STREET

97.82

97.99

97.97

97.60

98.04

97.75

MATCH EXISTING

MATCH EXISTING

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 74	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\314cds02m812_pg2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

2

N

MATCH EXISTING

MATCH EXISTING

N. 17TH STREET NB

N. 17TH STREET SB

W. VLIET STREET

R/L 17TH STREET SB

R/L 17TH STREET NB

R/L VLIET STREET

MATCHLINE 45VL+65

MATCHLINE 48VL+65

46VL

47VL

48VL

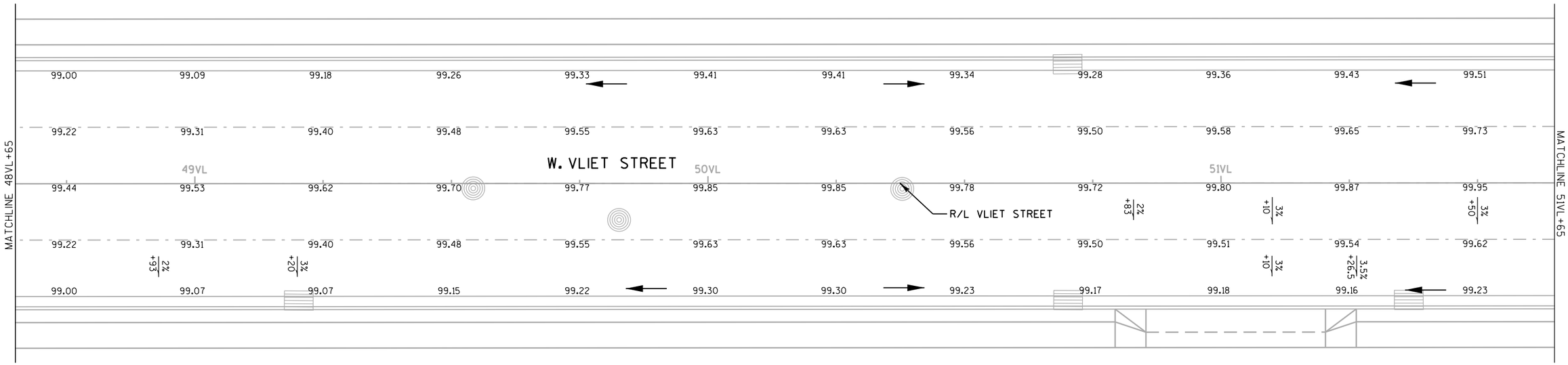
MATCH EXISTING

MATCH EXISTING

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 75	E

2

N



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\3144ST02M814_pg2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

2

N

MATCH EXISTING

MATCH EXISTING

N. 15TH STREET

W. VLIET STREET

R/L VLIET STREET

R/L 15TH STREET

MATCHLINE 51VL+65

MATCHLINE 54VL+65

52VL

53VL

54VL

10NSK

99.43 99.45 99.52 99.60 99.70 99.81 99.93 100.12 100.29 100.33 100.23 100.20 100.50 100.43 100.36 100.79 100.20 100.40 100.46 100.47 100.57

99.65 99.67 99.74 99.82 99.92 100.03 100.15 100.35 100.43 100.48 100.55 100.61 100.79

99.87 99.89 99.96 100.04 100.14 100.25 100.37 100.48 100.59 100.71 100.83 101.01

99.65 99.67 99.74 99.82 99.92 100.03 100.04 100.15 100.00 100.26 100.11 100.38 100.23 100.51 102.28 100.68

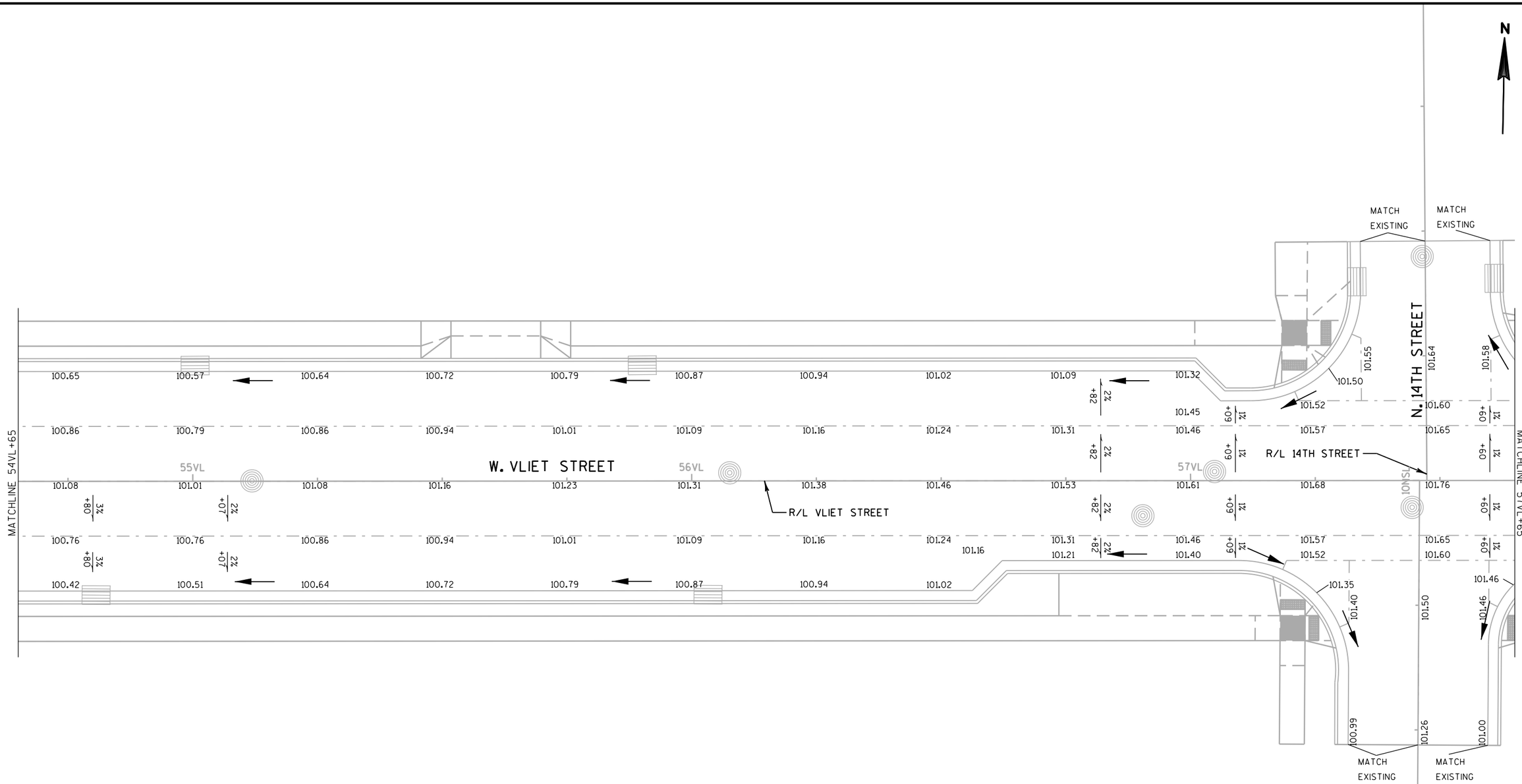
99.26 99.28 99.42 99.60 99.70 99.81 99.76 100.17 100.35

+28 2% +55 1% +28 2% +55 1% +87 1% +14 2% +87 1% +14 2% +77 2% +00 2% +27 3% +27 3% +09.5 3.5% +50 2% +00 2%

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 77	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Pavement Production\314ct02m815_pg2.dgn PLOT DATE : 7/6/2022 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

2



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 78	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Files\Tabs\2022\3144-58-02\M816_pg2.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 57VL+65

101.58 101.66 +87 2% 101.46 101.55 +98 2% 101.69 101.45 +25 3% 101.78 101.54 101.87 101.70 +73 3% 102.02 101.86 +00 2% 102.08 101.78 102.00 101.83 102.05 101.90 102.12 101.98 102.20 102.07 +19.5 2% 102.27 102.20 102.29

+87 2%

58VL 101.83 101.91 102.00 102.09 102.24 59VL 102.30 102.22 +23 2% 102.27 +50 3% 102.34 60VL 102.42 102.46 +23 3% 102.39 +50 2%

R/L VLIET STREET

W. VLIET STREET

MATCHLINE 60VL+65

101.66 101.69 101.78 101.87 102.02 102.08 102.00 101.94 102.01 102.09 102.14 +23 3% 102.17 +50 2%

101.58 102.56 +14 3% 101.41 101.45 101.54 101.69 101.75 101.67 101.61 101.68 101.76 101.82 101.95

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 79	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022_11_16_63342_02817_pg2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

2

2

N

MATCH EXISTING

MATCH EXISTING

102.77

102.86

103.04

102.72

102.82

102.69

102.78

102.78

102.69

102.64

102.66

102.50

102.55

102.49

102.63

102.75

102.73

102.85

102.82

102.77

102.70

102.72

102.81

102.91

103.00

103.20

103.30

102.81

102.84

102.94

103.03

103.13

103.22

103.31

103.41

+17.5 2%

+00 2%

+27 1%

+87 0.5%

+87 0.5%

+50 0.5%

+50 0.5%

+90.5 1%

R/L 13TH STREET

61VL

62VL

W. VLIET STREET

63VL

R/L VLIET STREET

MATCHLINE 60VL+65

MATCHLINE 63VL+65

102.48

102.58

102.67

102.77

102.86

102.95

103.05

103.14

103.24

103.33

103.43

103.52

+58 2%

+85 3%

+78 3%

+20 1%

+40 1%

+61 2%

102.26

102.36

102.45

102.55

102.57

102.62

102.72

102.81

102.91

103.11

103.31

103.35

102.26

102.35

102.45

102.46

102.04

102.02

102.09

102.18

102.25

102.20

102.28

102.29

102.39

102.48

102.58

102.90

103.20

103.19

103.21

N. 13TH STREET

101.62

101.84

101.79

102.86

103.09

102.82

MATCH EXISTING

101.42

101.69

MATCH EXISTING

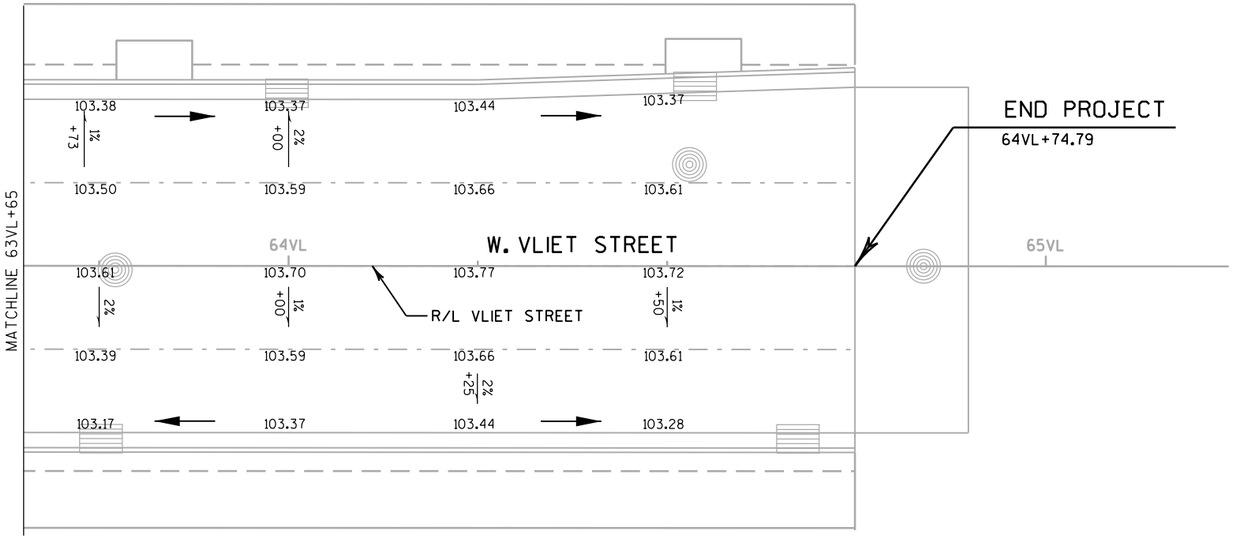
MATCH EXISTING

N. 12TH LANE

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 80	E

2

N



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 81	E

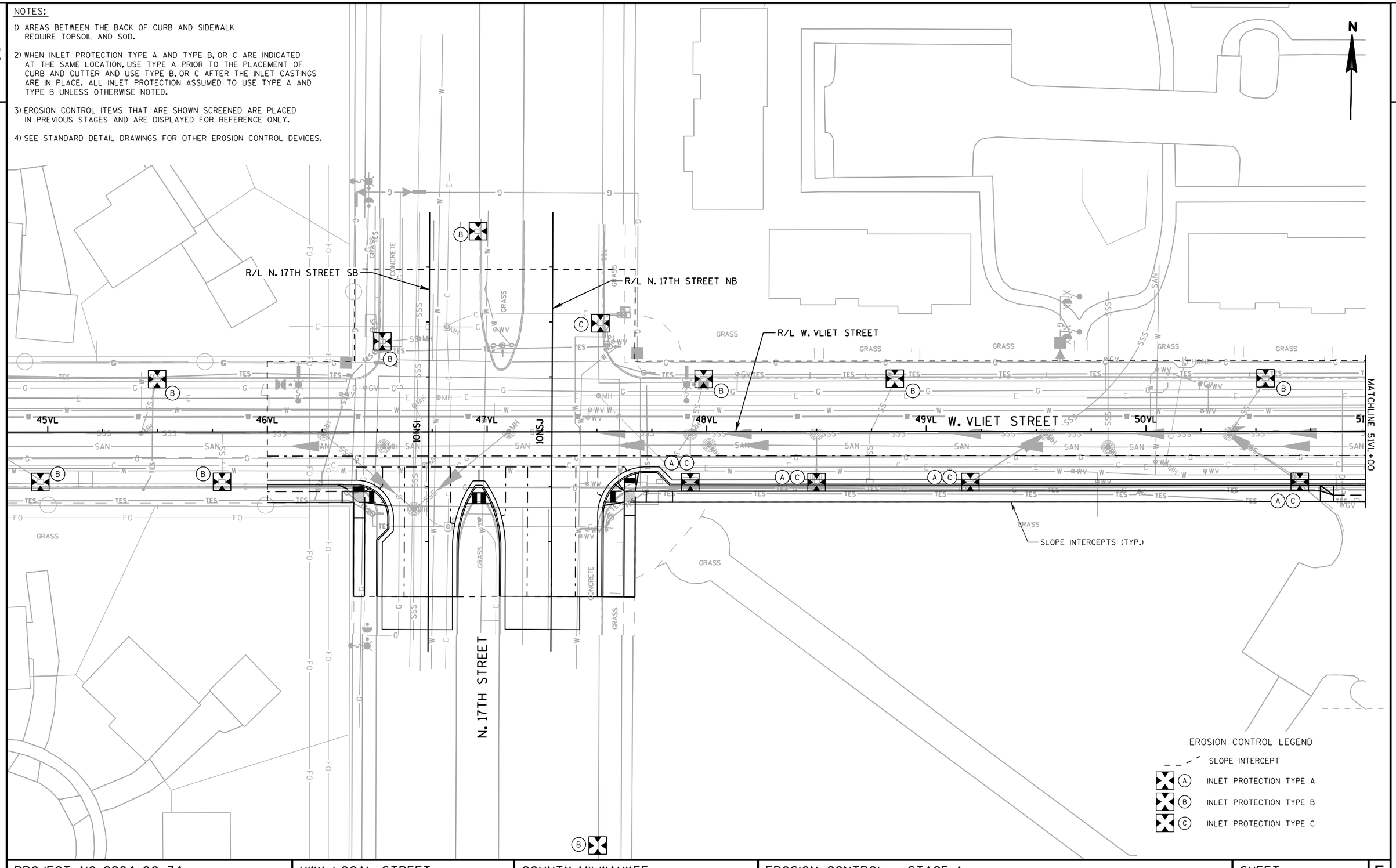
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 1	SHEET 82	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Project\63342_2984-00-74_EC_Plan_Sheet_2011_ecastellan.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

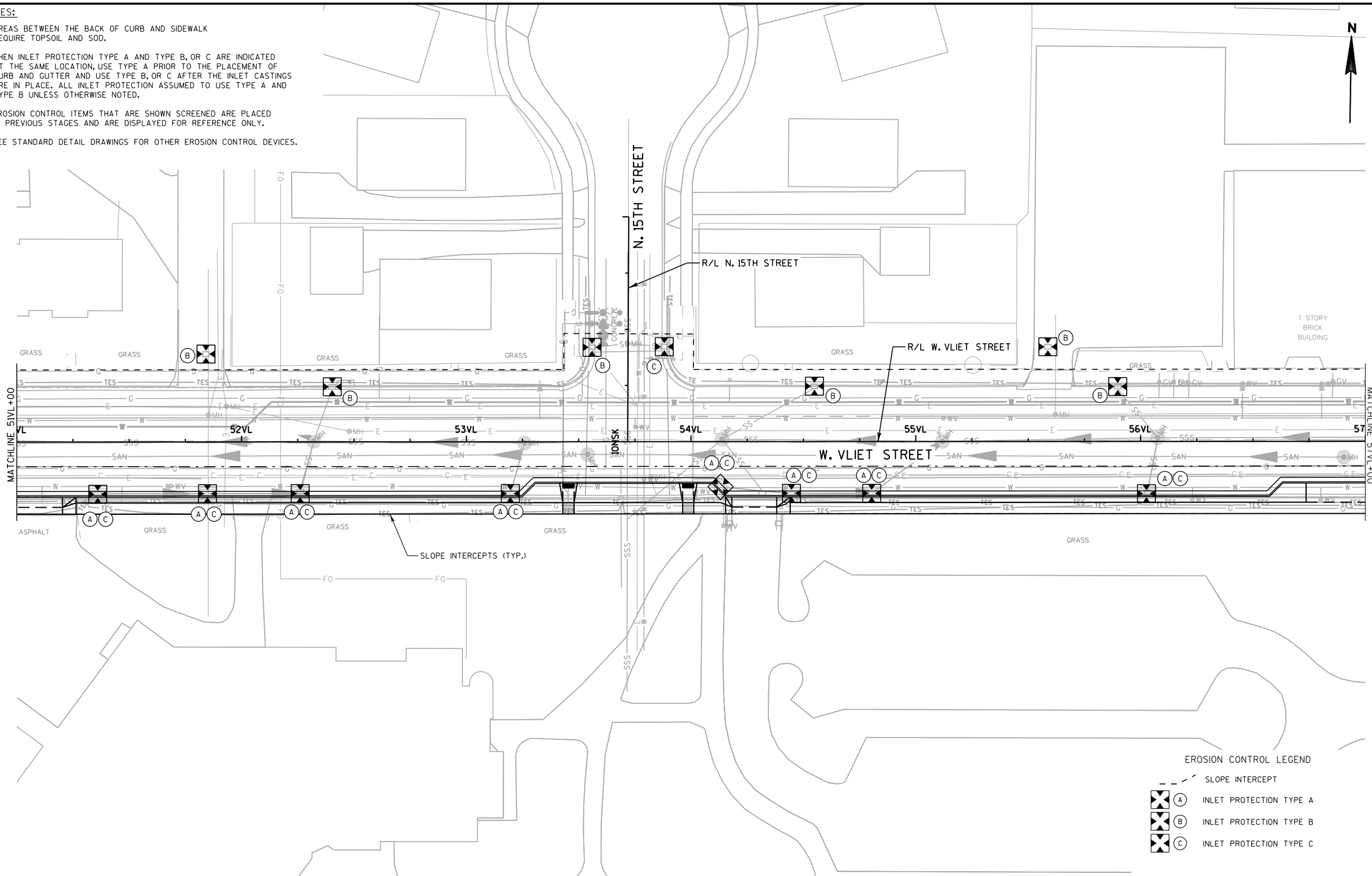
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 1	SHEET 83	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\E Project Sheets\10_12ssl20012_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

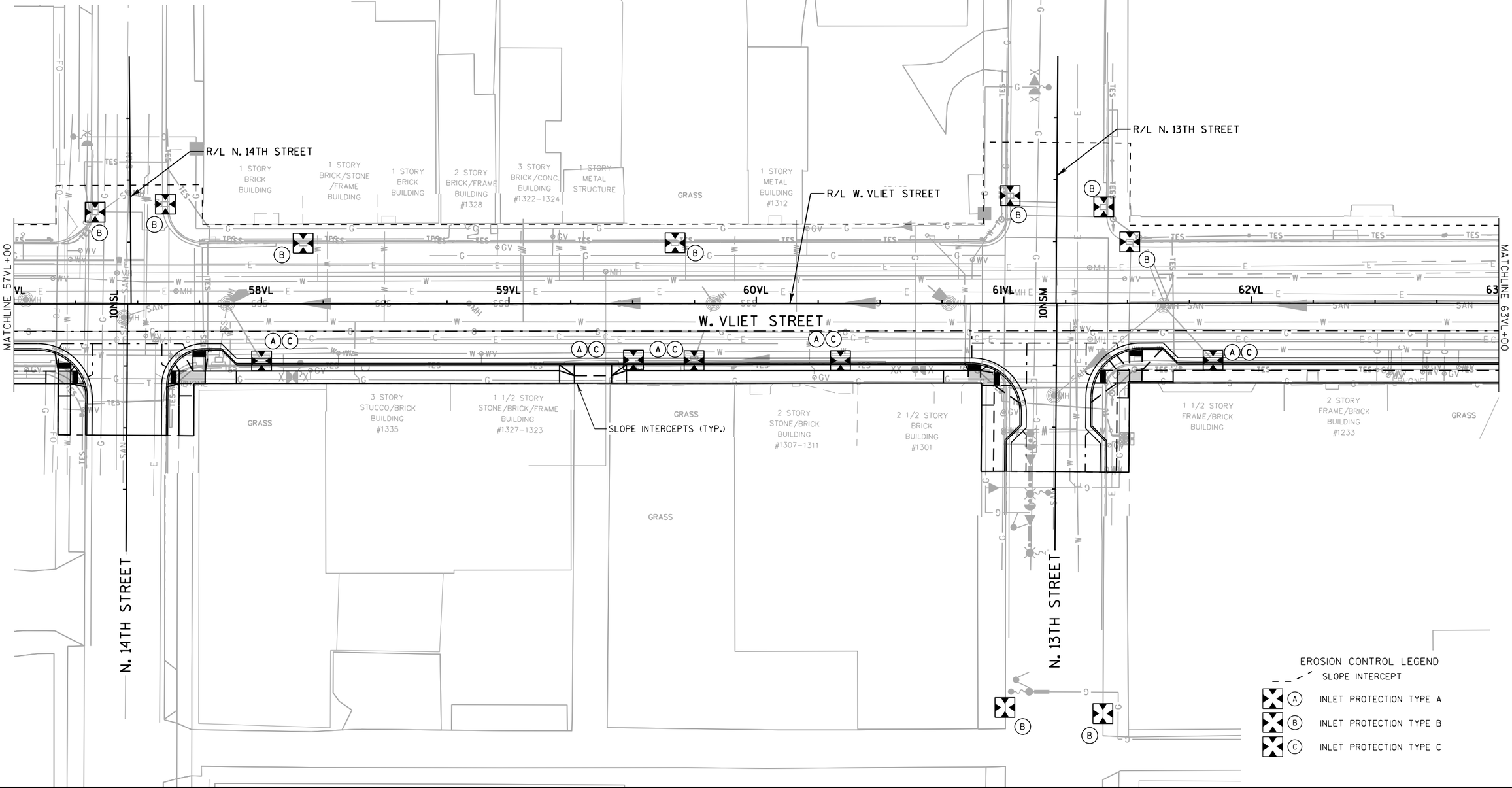
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 1	SHEET 84	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\2022_10_18_252013_ecastellan.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 1	SHEET 85 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\E Production\10_Roadway\014_ec_plan.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

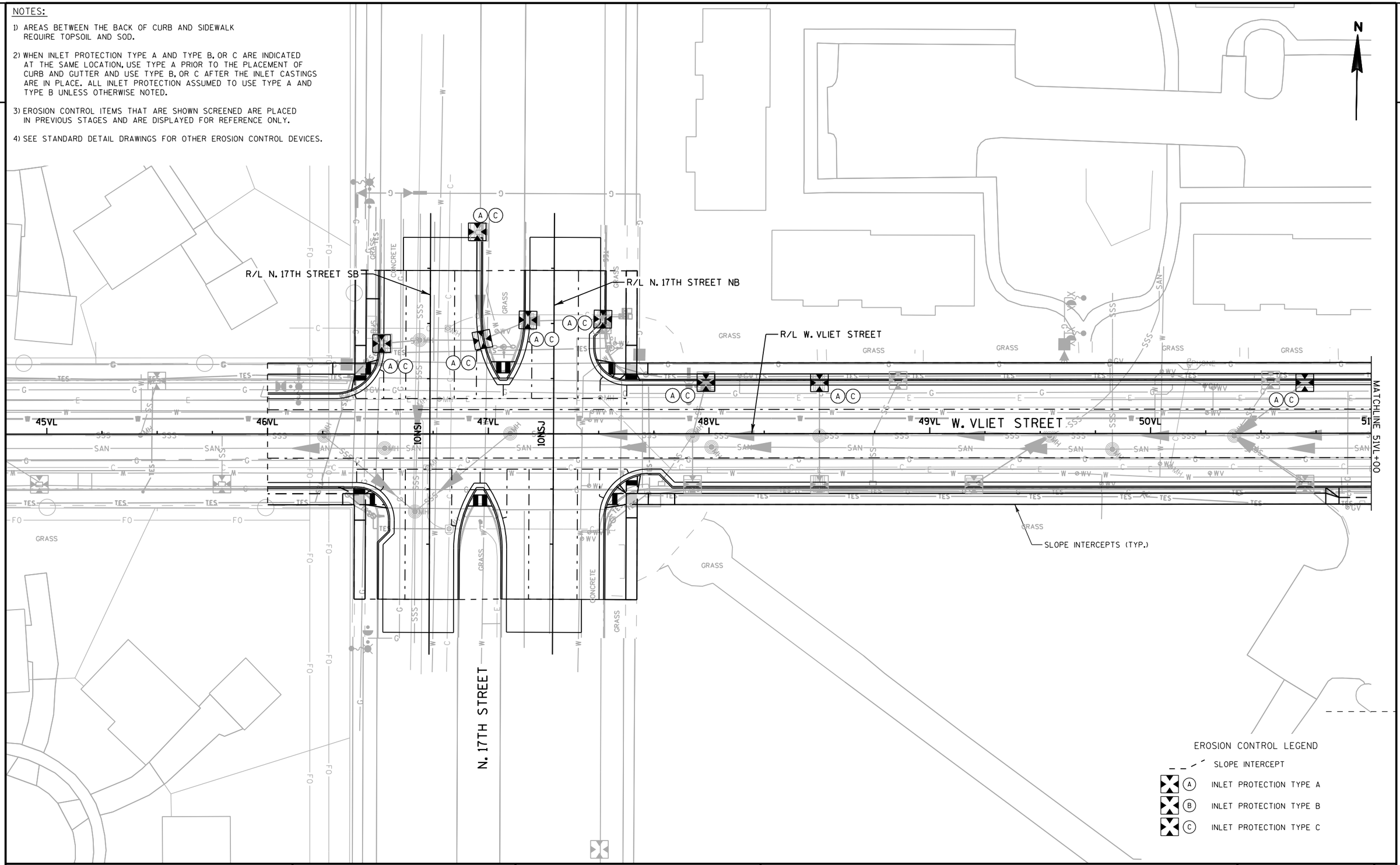
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 2	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Production\10_20s\20221021_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

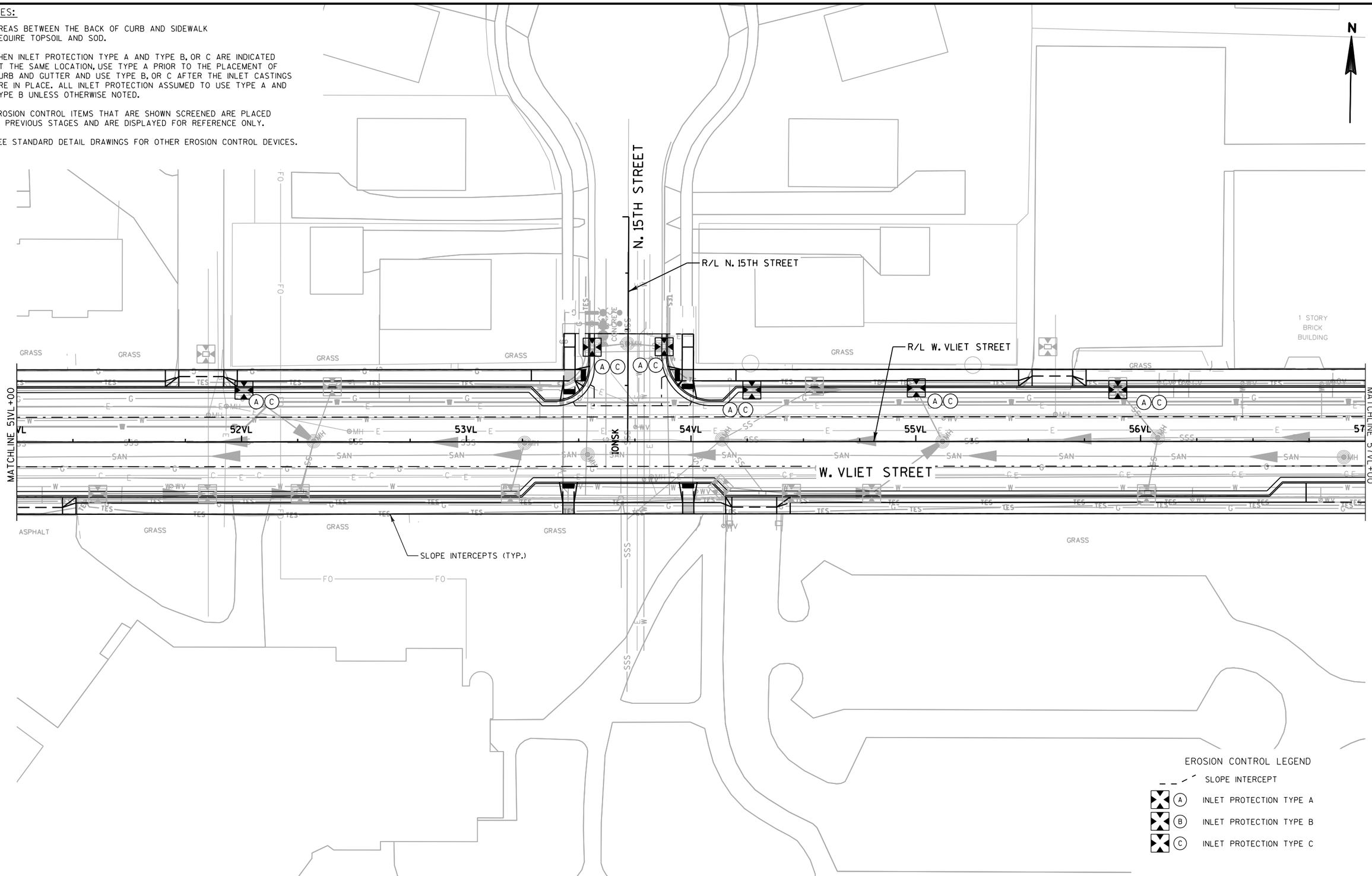
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 2	SHEET 87	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\E Project Sheets\10_12ssd2022_ec.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

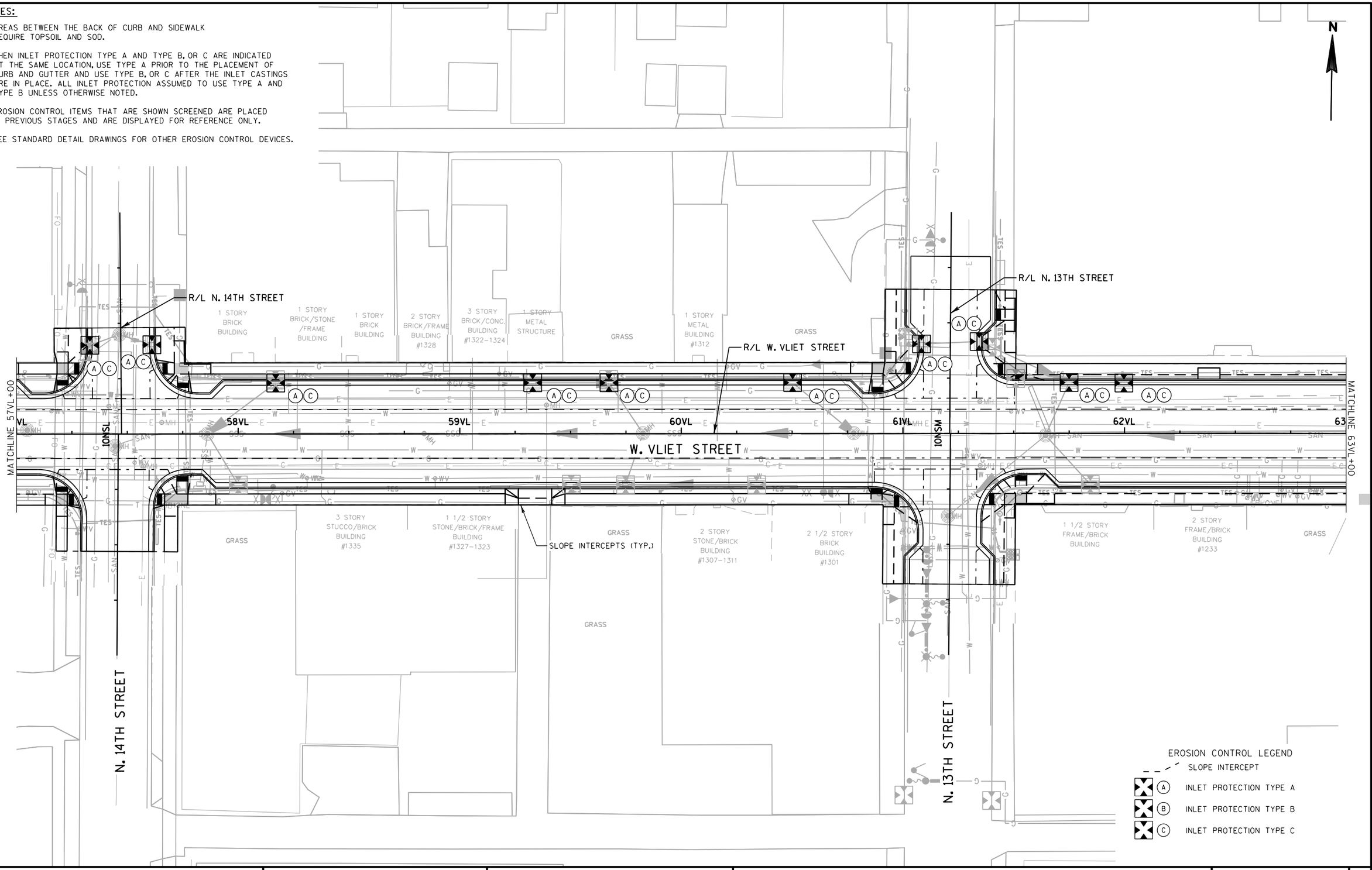
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 2	SHEET 88	E

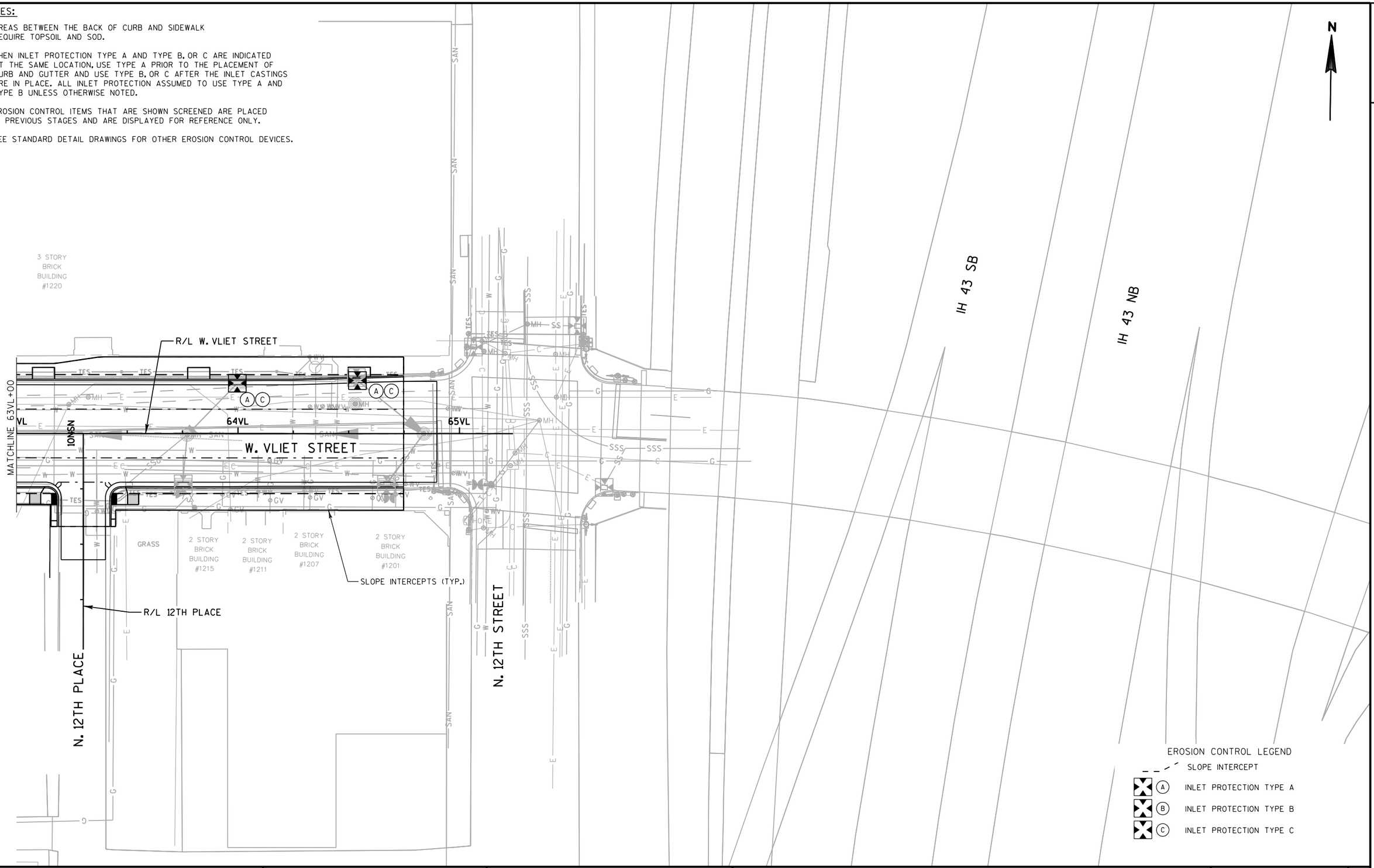
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 2	SHEET 89	E

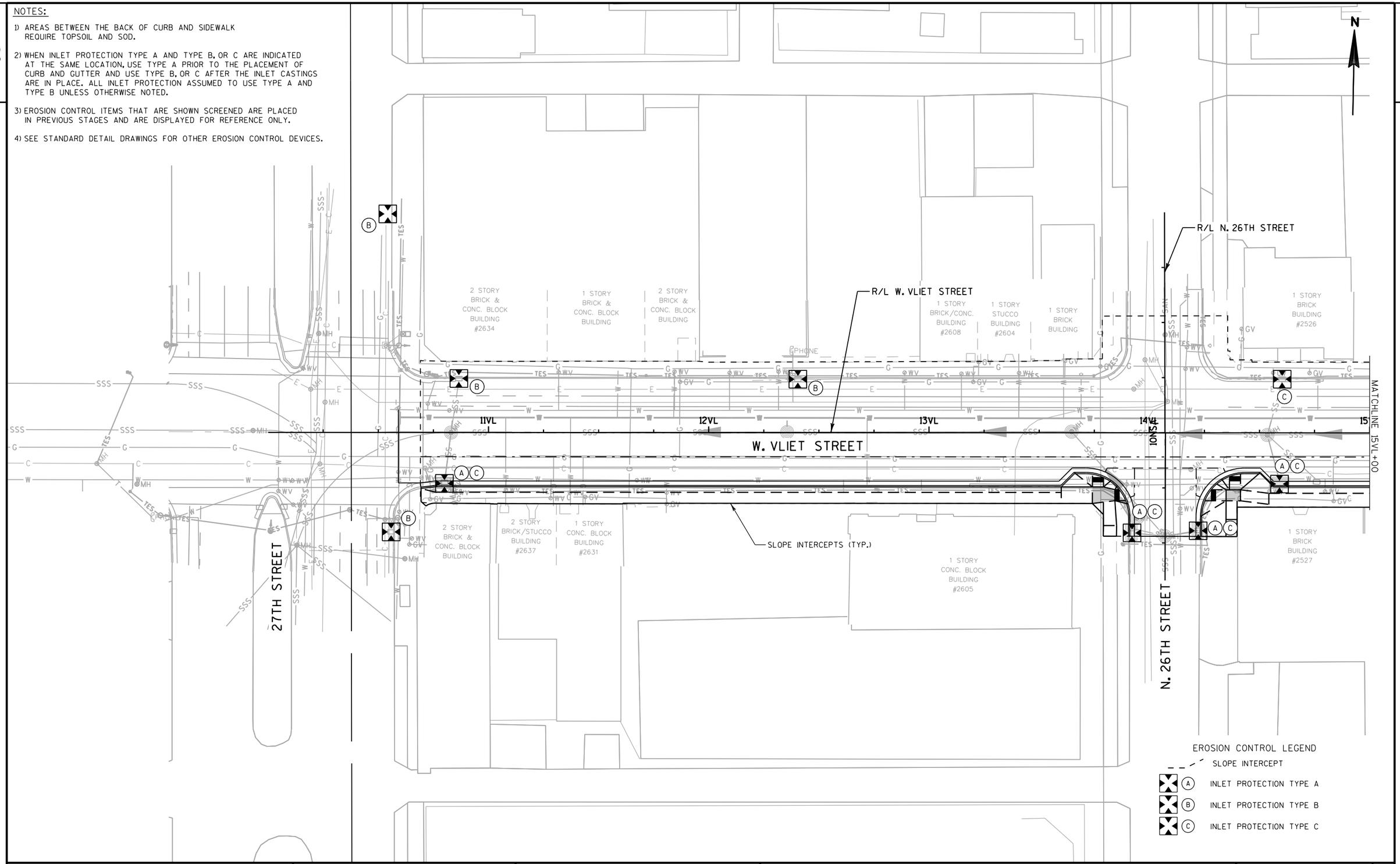
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET 90 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\12ds39231_ecastellan.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

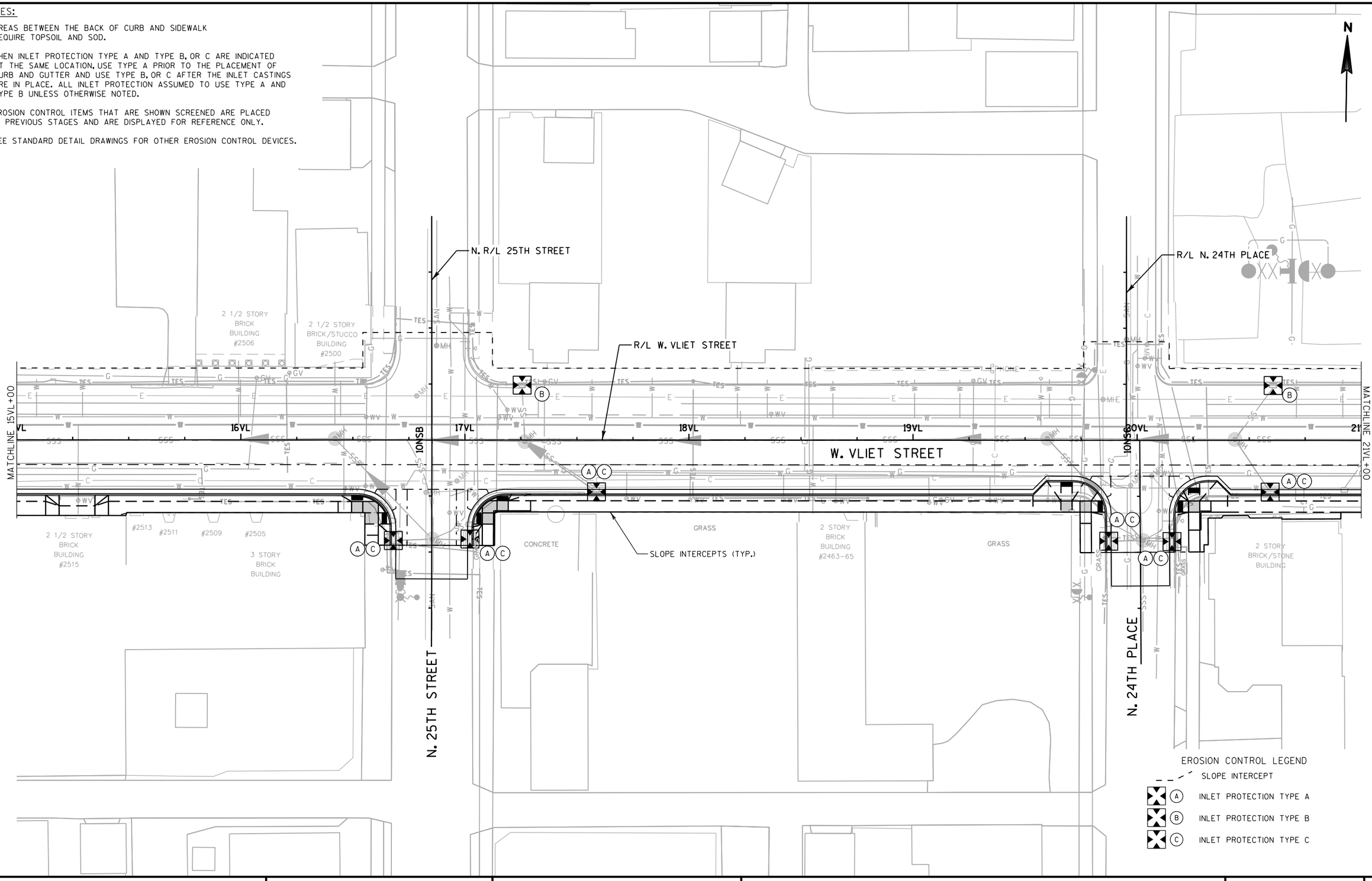
NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET 91	E

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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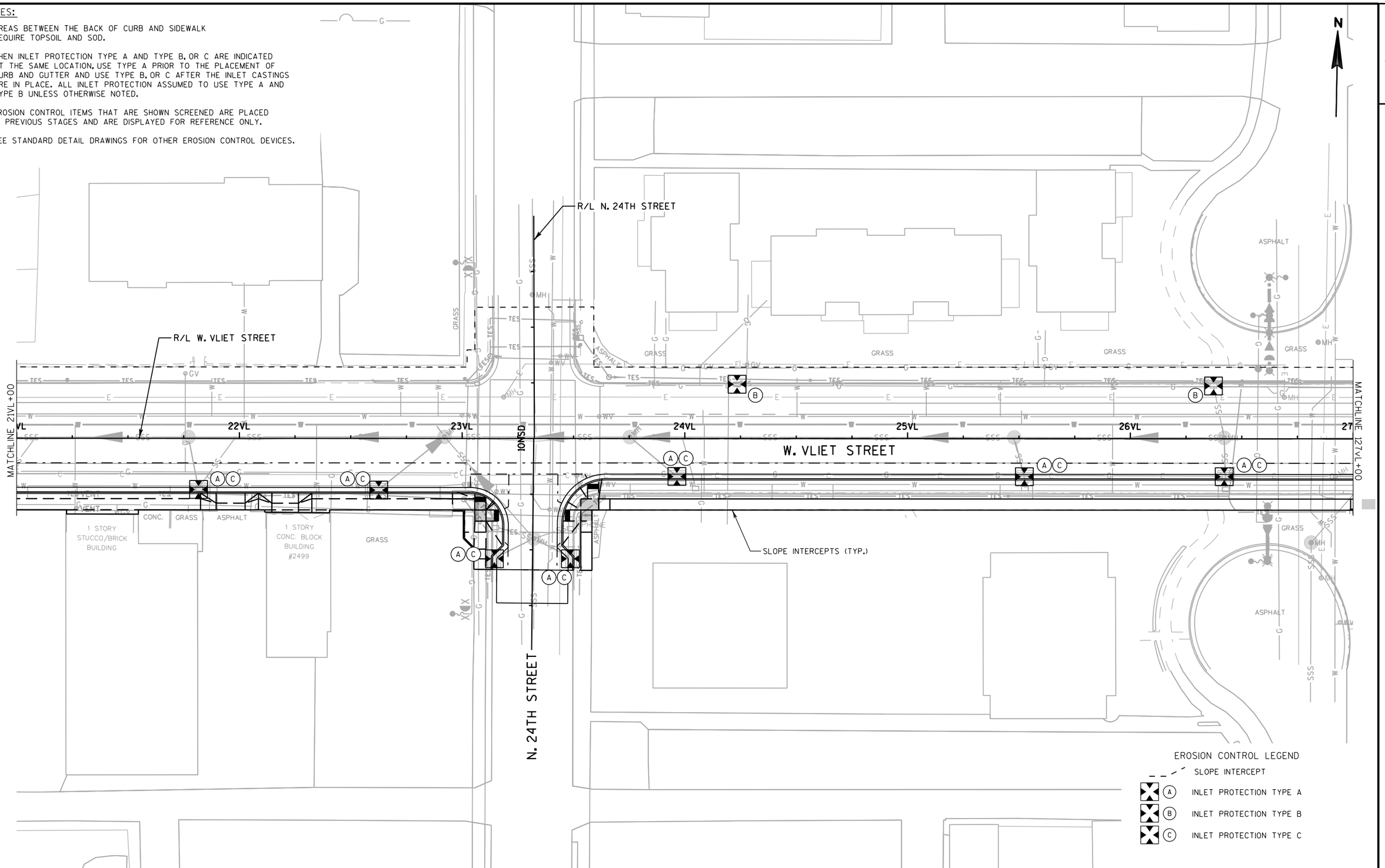

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10_12_45_20033_ec2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, OR C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, OR C AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

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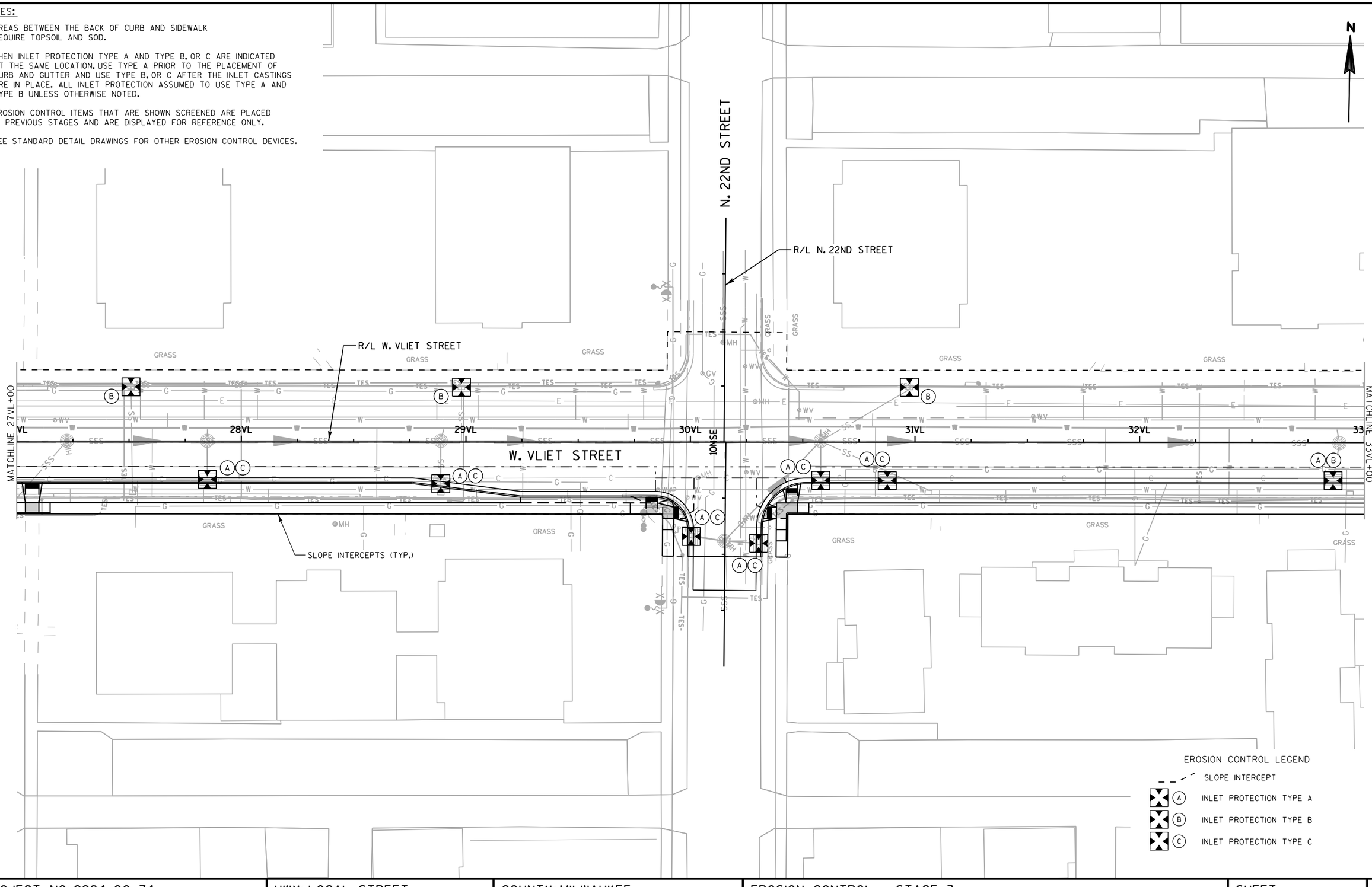

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\A102034_ec_plan.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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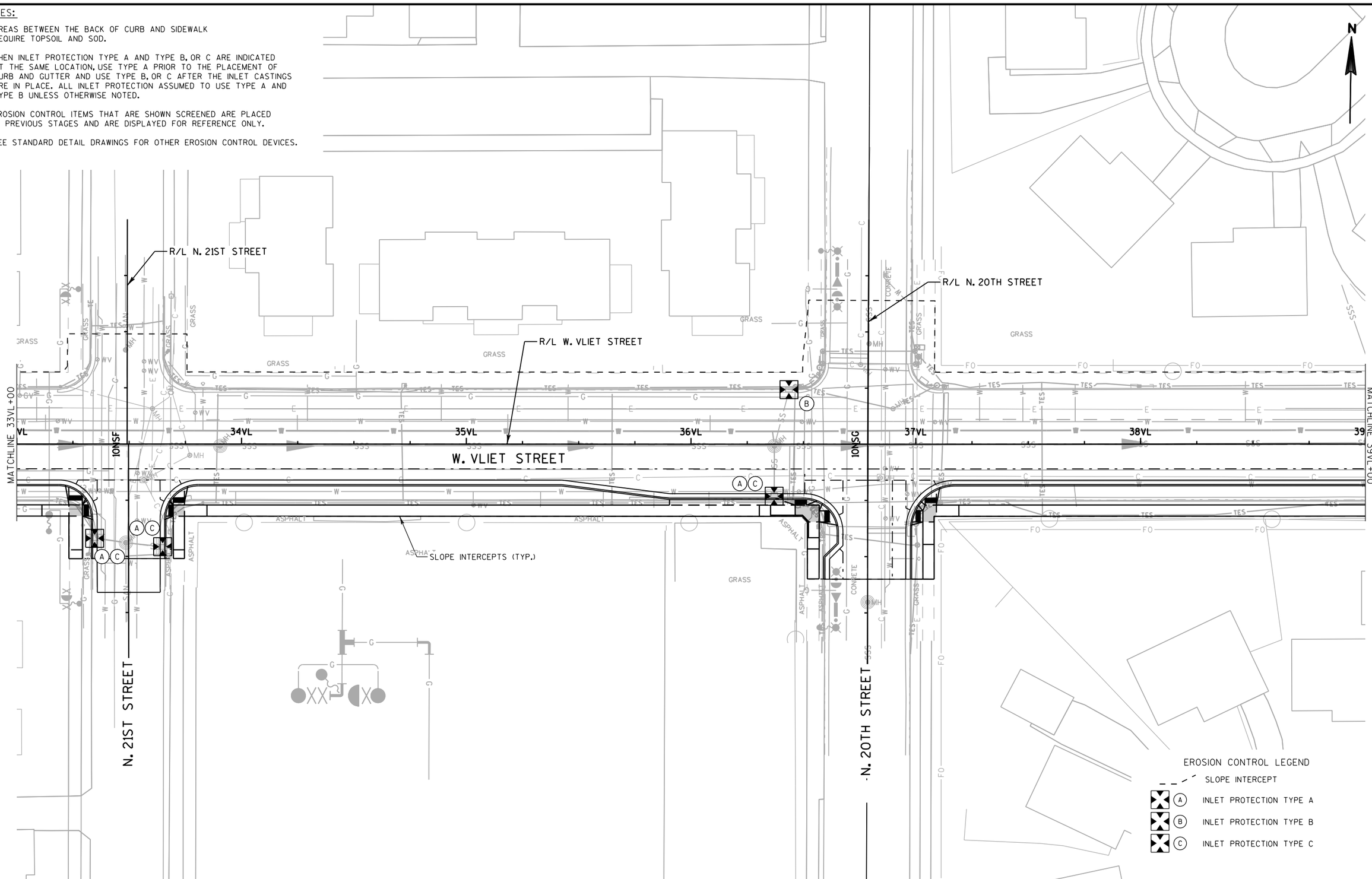

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET 94 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 3\Dec2022\10.1ds5.02A035_ec.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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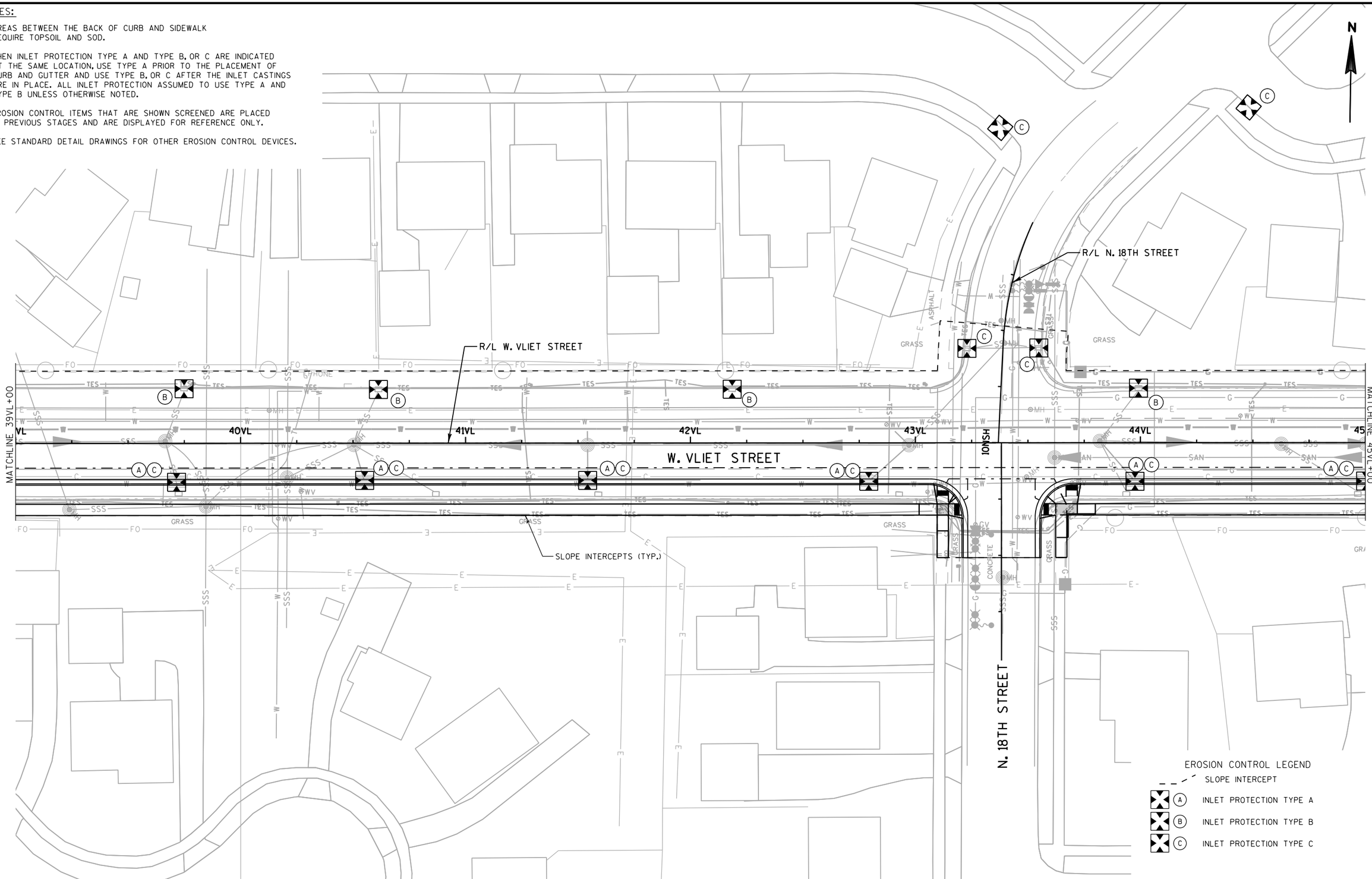

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET 95 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 3 Dec 2022\10_Sht_58240036_ec1.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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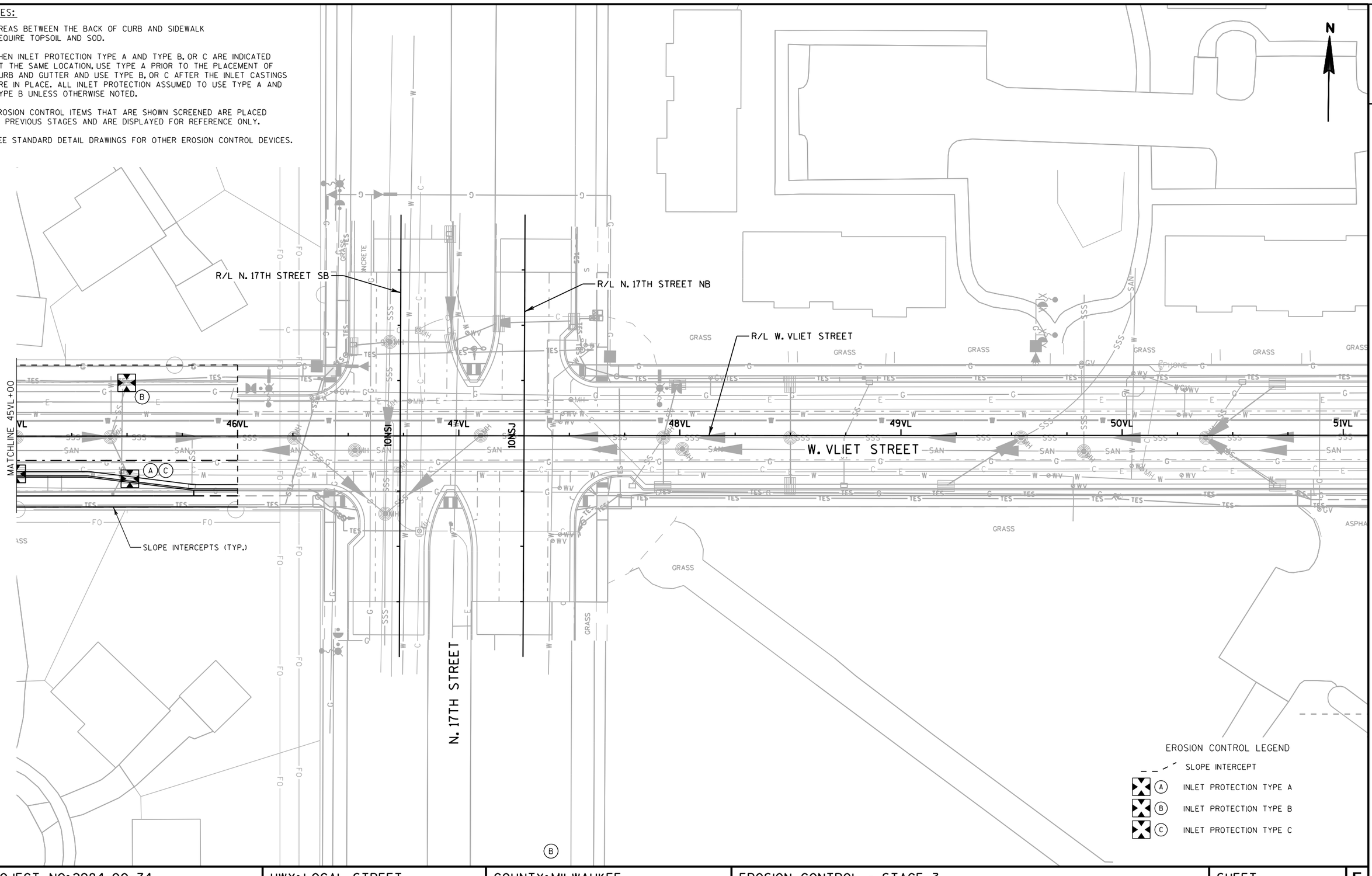

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Electrical Design\Traffic Control\11x17\E_TC_Stage3.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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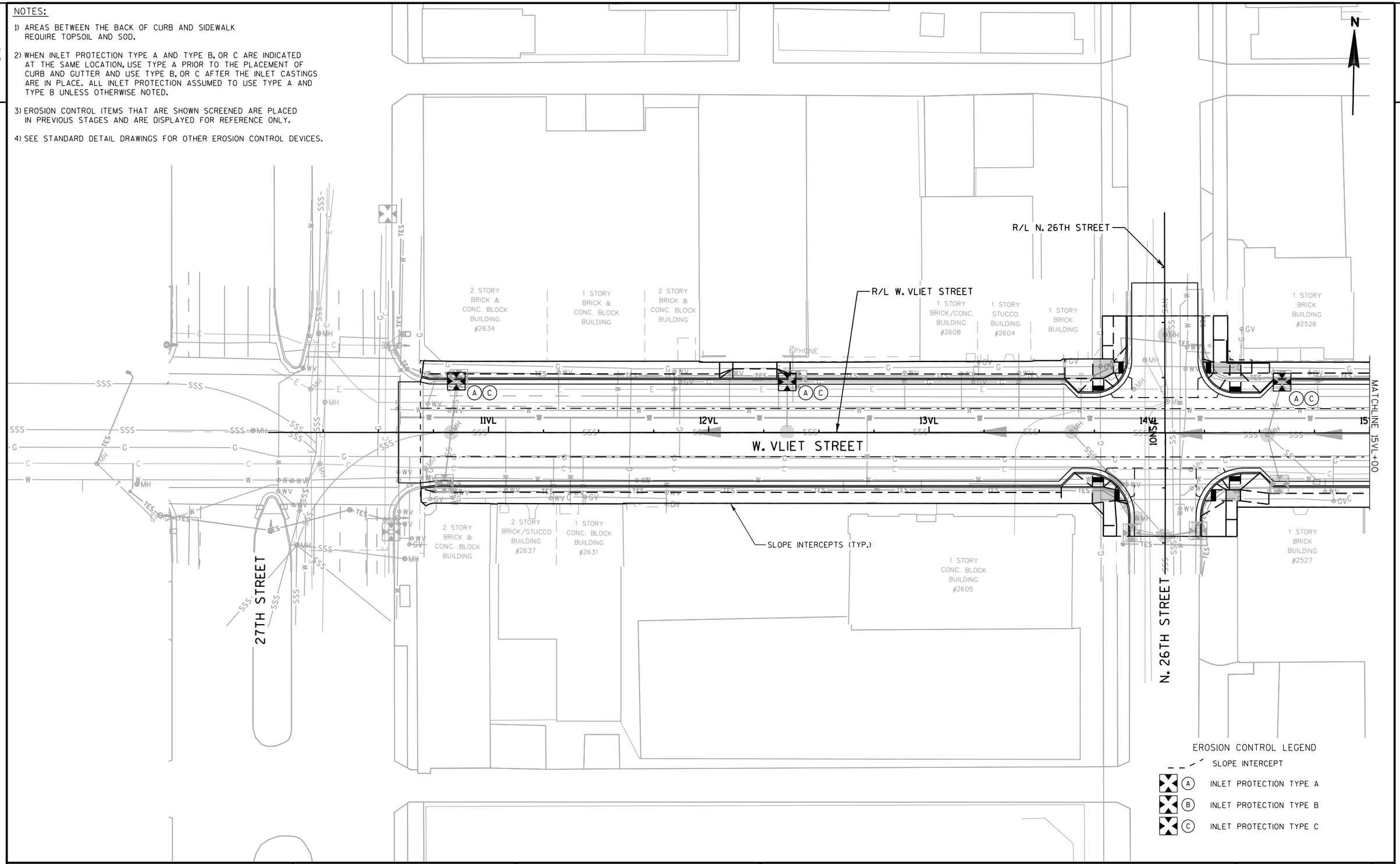

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\11x17s\63342041_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

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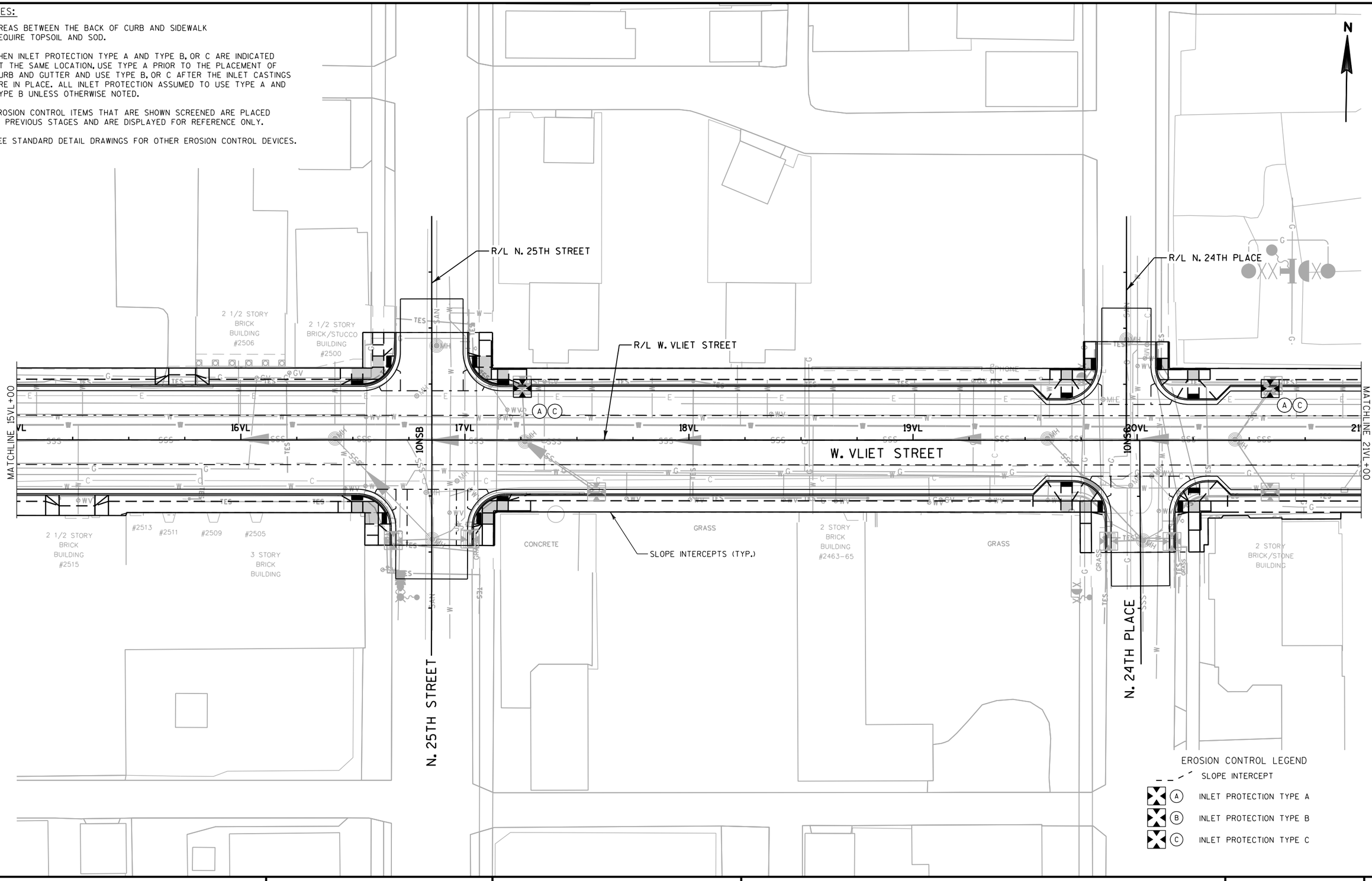

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET 98	E

NOTES:

1) AREAS BETWEEN THE BACK OF CURB AND SIDEWALK REQUIRE TOPSOIL AND SOD.

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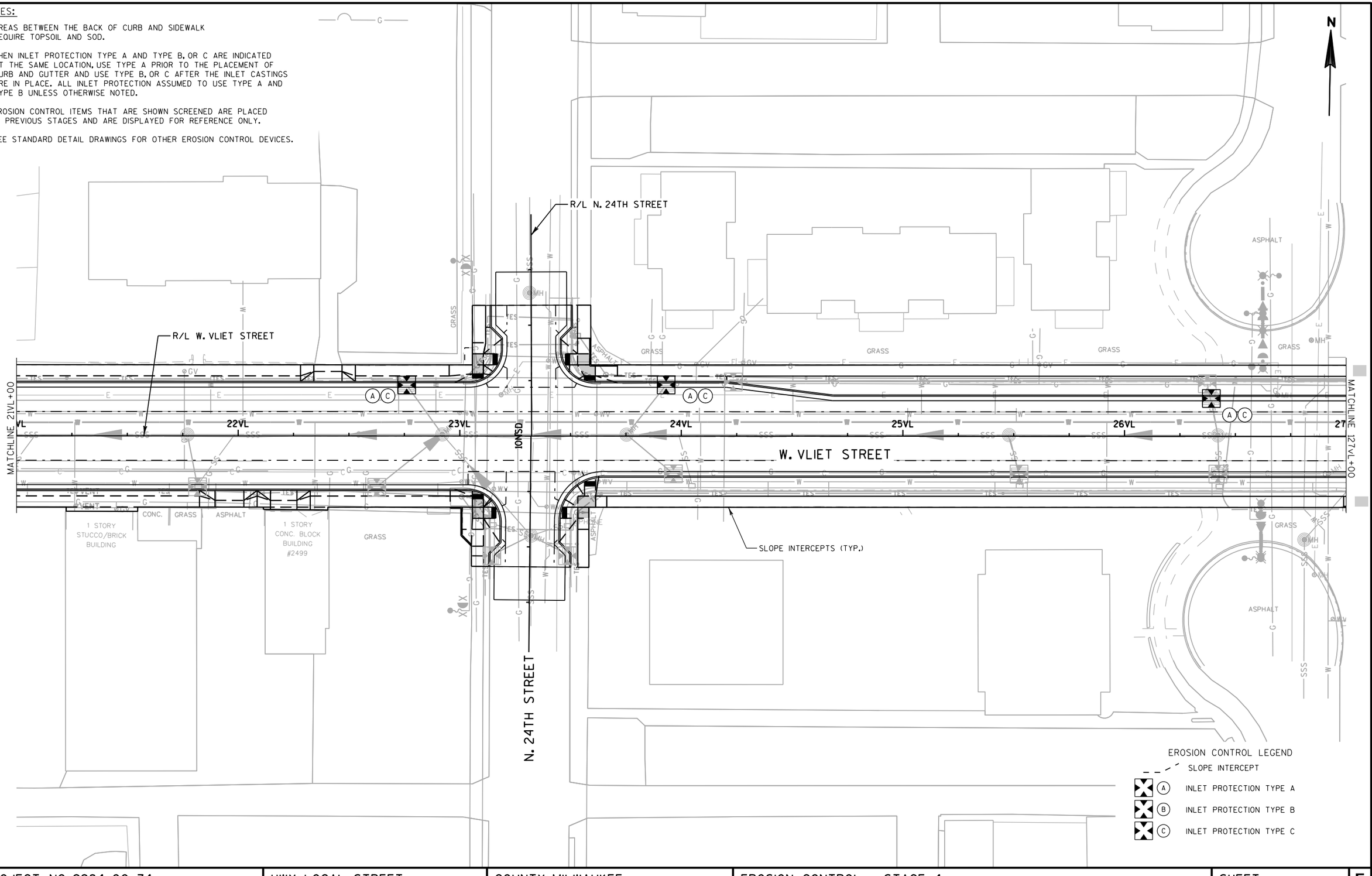

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 3\Sheets\20220110_155102043_ecastellan.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

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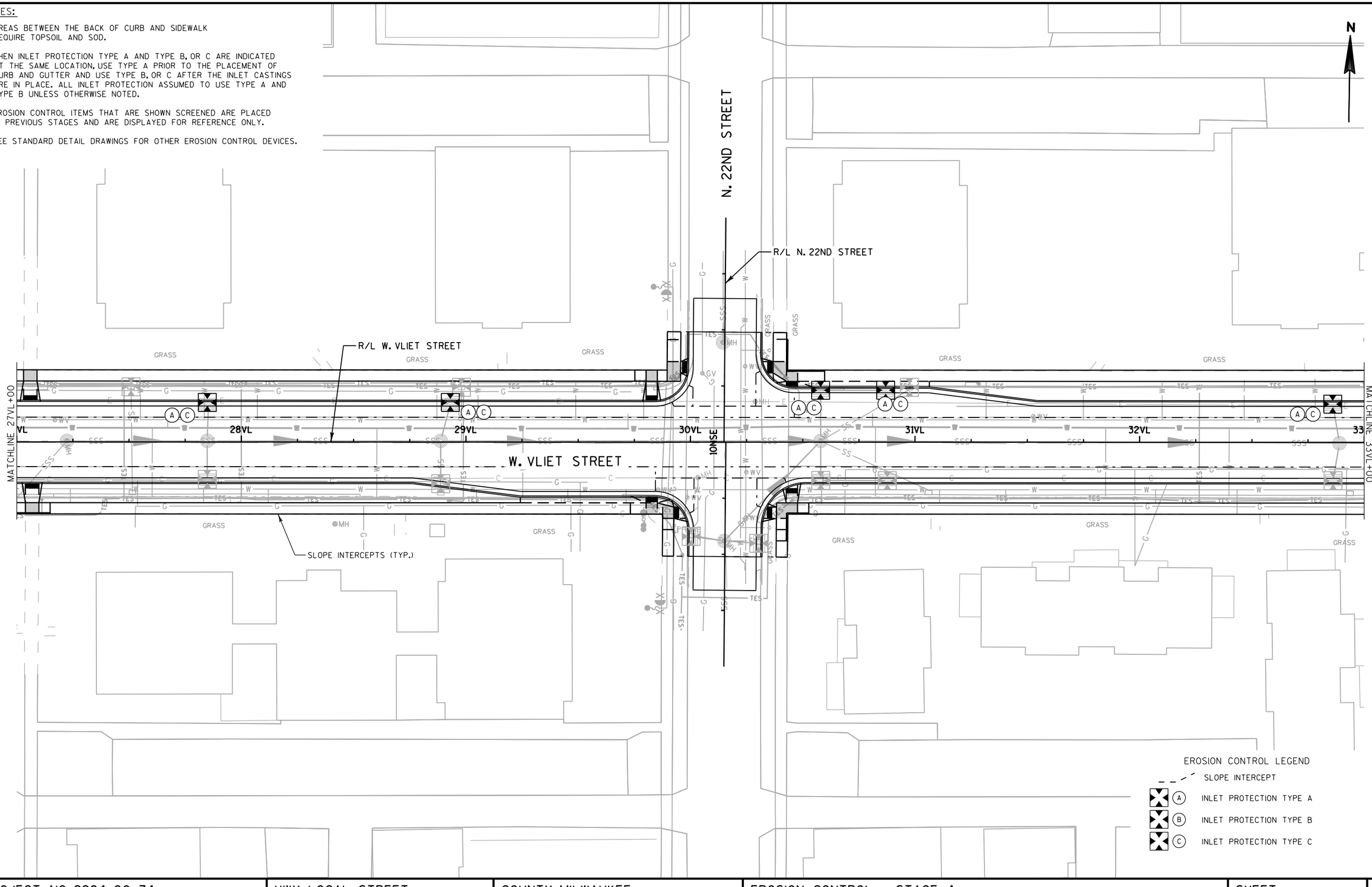

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET 100	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\ess\62044_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

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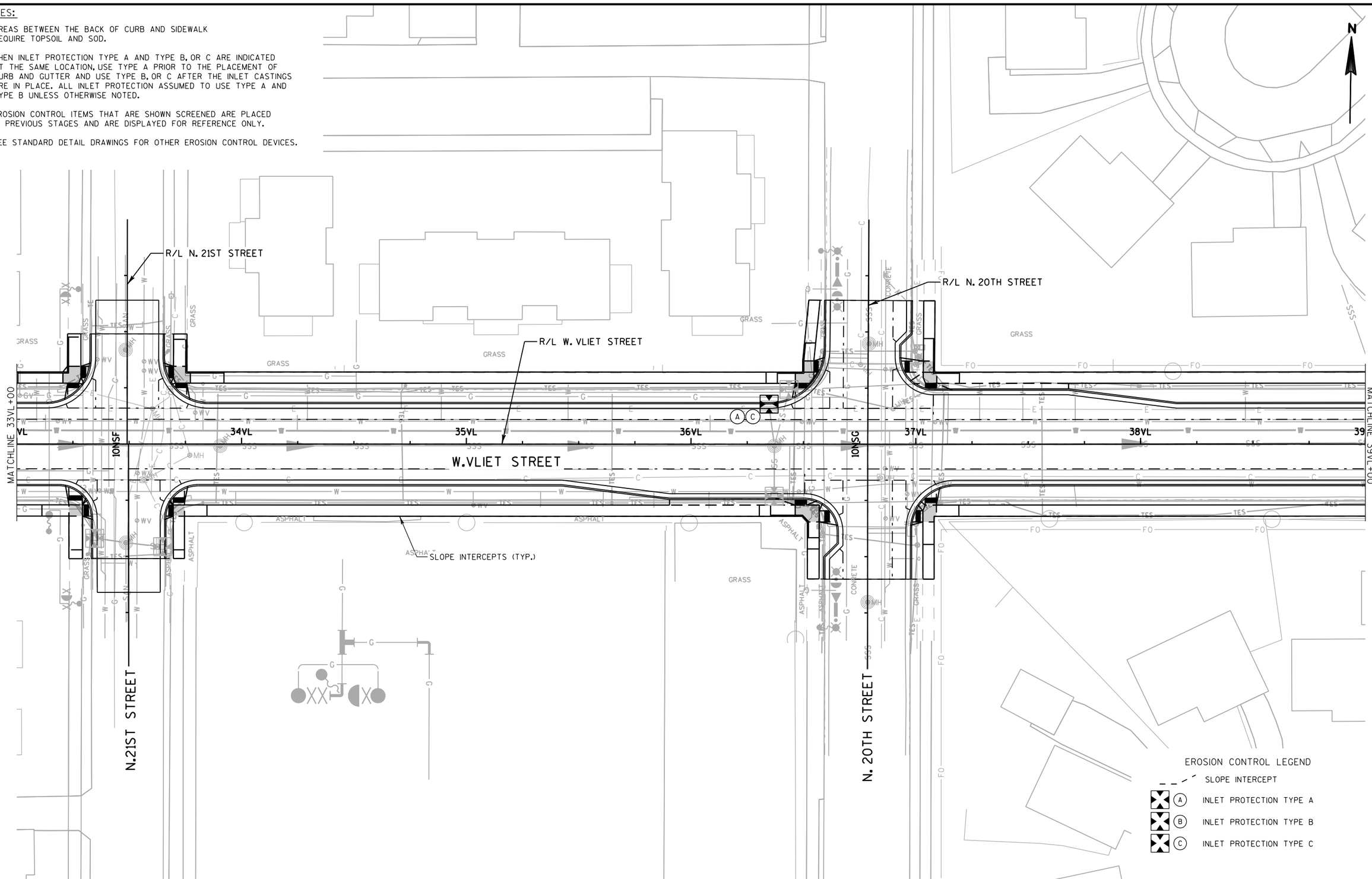

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET 101 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 3 Dec 2022\101_ESC_P1_STG4.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

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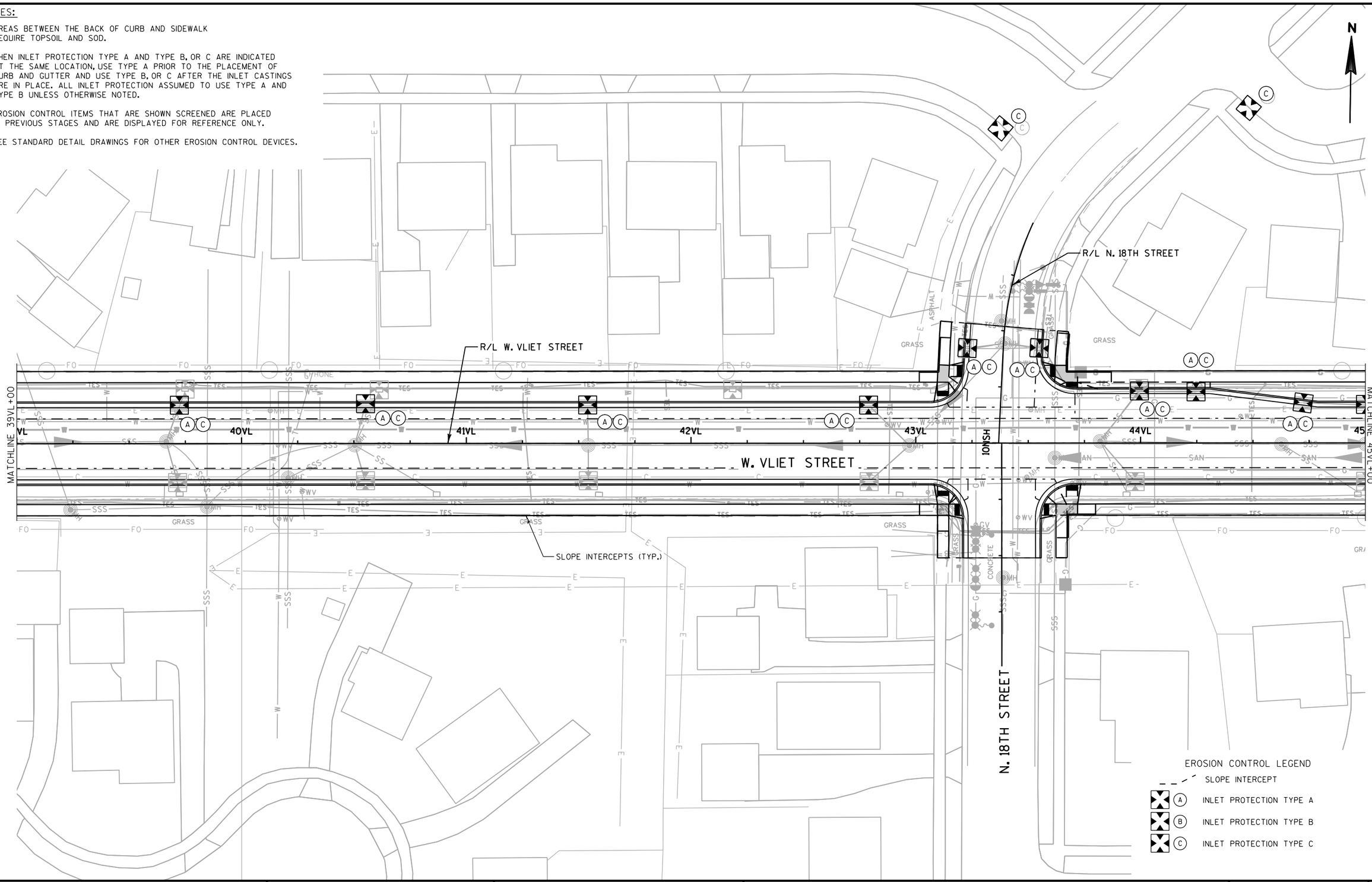

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Set Production\11x22\20046_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

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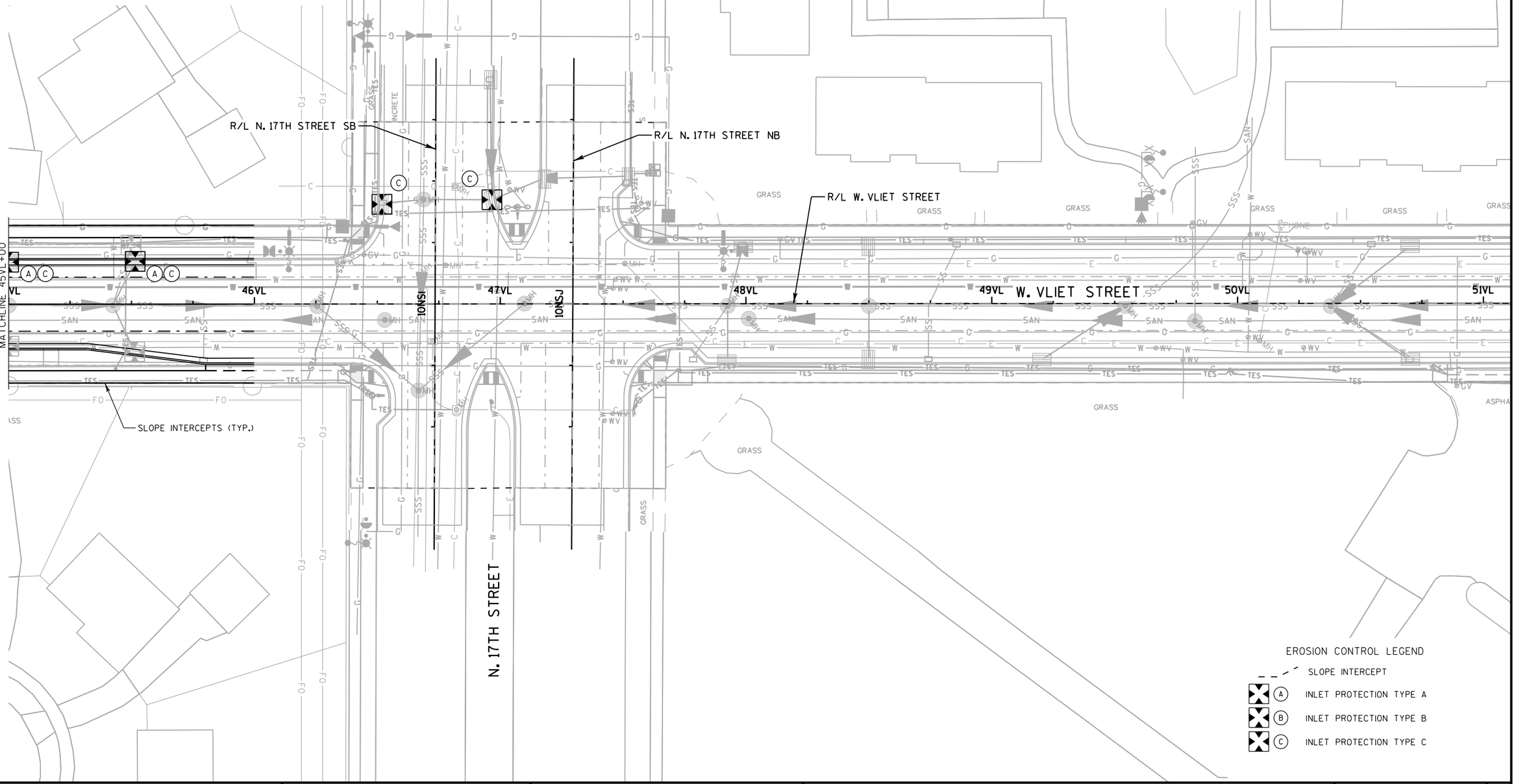
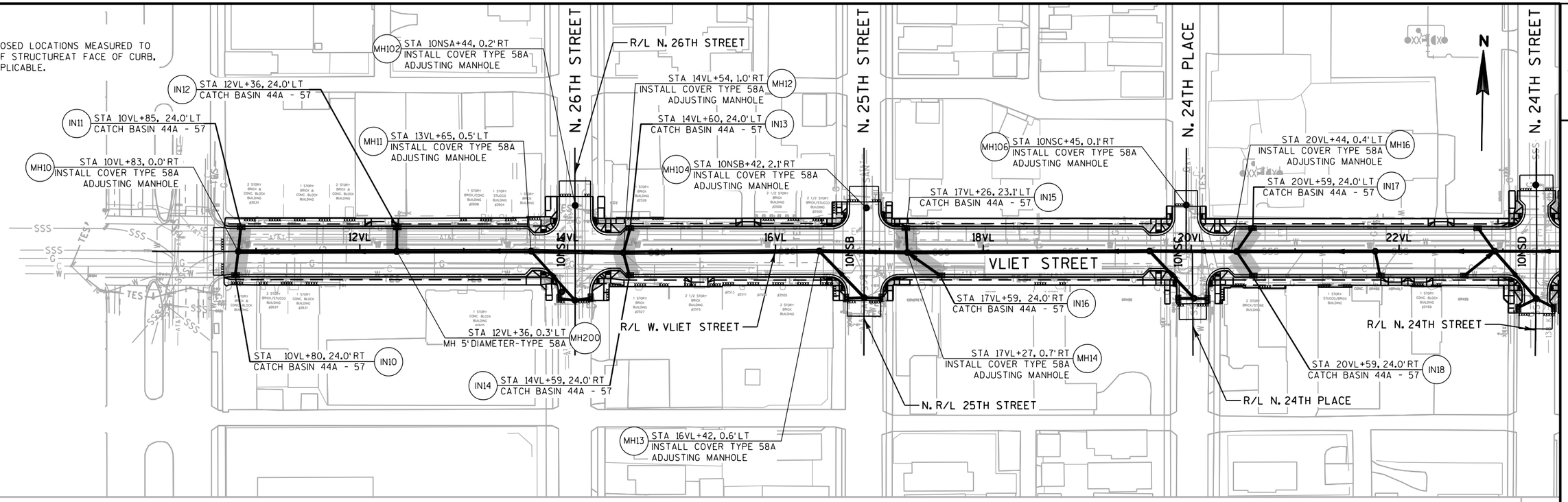
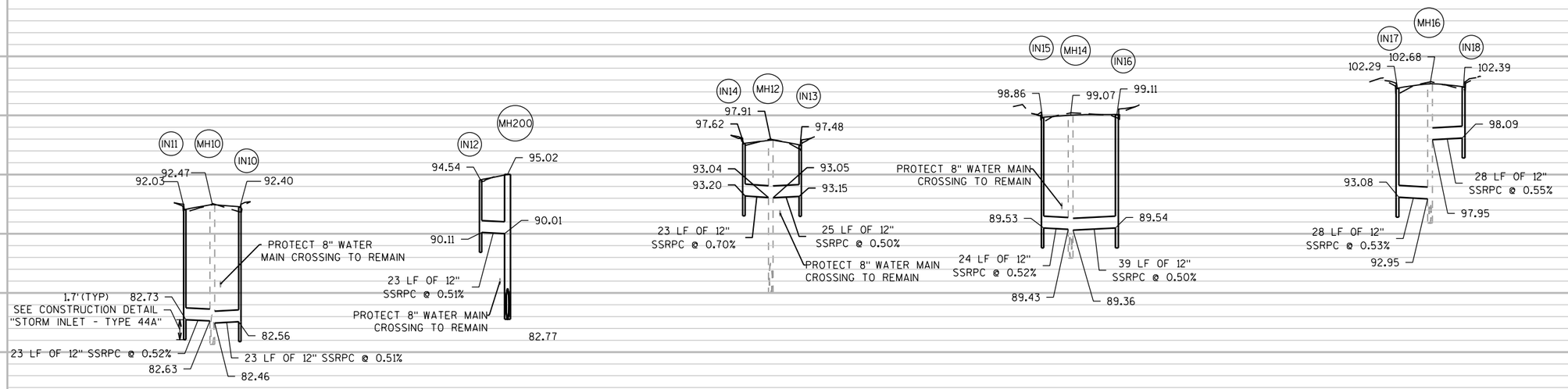


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	EROSION CONTROL - STAGE 4	SHEET	E

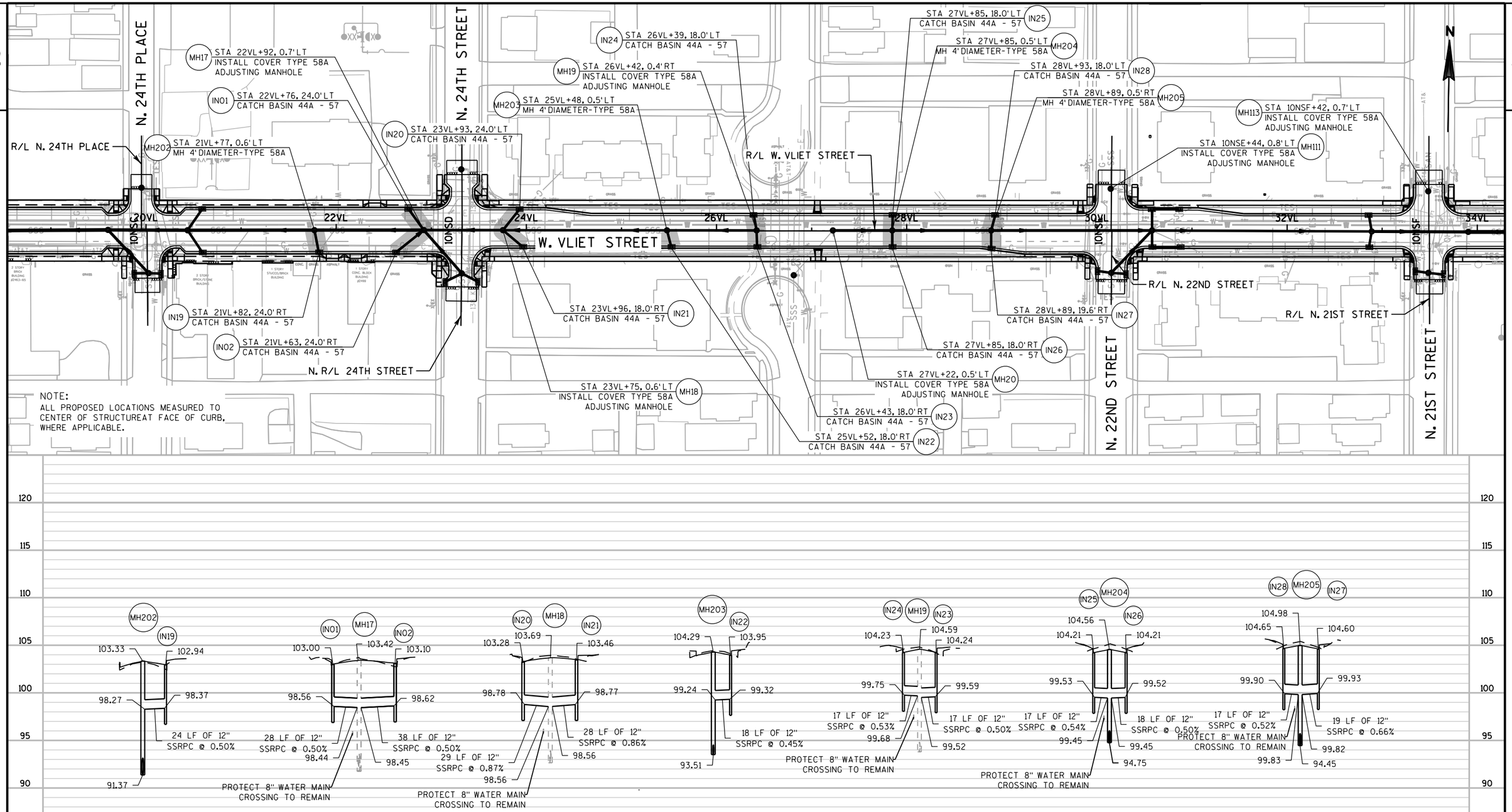
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Sheets\Production\11x17s\20047_ec.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.





PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 104	E



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 105	E

NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.

N. 22ND STREET

R/L N. 22ND STREET

STA 30VL+58, 24.0'LT
CATCH BASIN 44A - 57
IN29

STA 30VL+58, 0.6'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH21

STA 30VL+87, 24.0'LT
CATCH BASIN 45A - 57
IN31

STA 30VL+58, 18.0'RT
CATCH BASIN 44A - 57
IN30

STA 30VL+88, 18.0'RT
CATCH BASIN 45A - 57
PROTECT 8" WATERMAIN
IN32

STA 32VL+86, 18.0'RT
CATCH BASIN 44A - 57
IN33

STA 32VL+86, 18.0'LT
CATCH BASIN 44A - 57
IN05

STA 32VL+89, 0.4'RT
MH 4' DIAMETER-TYPE 58A
MH207

STA 36VL+35, 18.0'LT
CATCH BASIN 44A - 57
IN35

STA 36VL+37, 0.1'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH23

STA 36VL+37, 24.0'RT
CATCH BASIN 44A - 57
IN34

STA 33VL+91, 0.8'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH22

N. 21ST STREET

R/L N. 21ST STREET

STA 10NSG+45, 0.4'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH115

N. 20TH STREET

R/L N. 20TH STREET

STA 39VL+72, 18.0'LT
CATCH BASIN 44A - 57
IN37

STA 39VL+67, 1.0'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH25

STA 39VL+24, 29.4'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH24

STA 39VL+72, 18.0'RT
CATCH BASIN 44A - 57
IN36

STA 40VL+21, 15.3'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH27

STA 40VL+50, 0.7'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH28

STA 40VL+55, 18.0'LT
CATCH BASIN 44A - 57
IN38

STA 40VL+55, 18.0'RT
CATCH BASIN 44A - 57
IN39

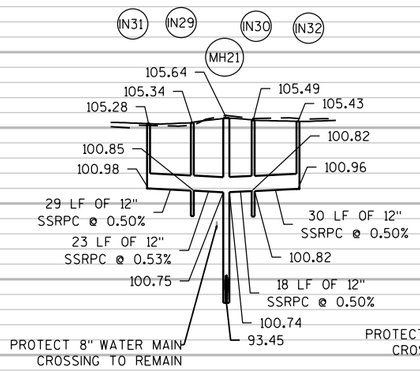
STA 39VL+85, 28.1'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH26

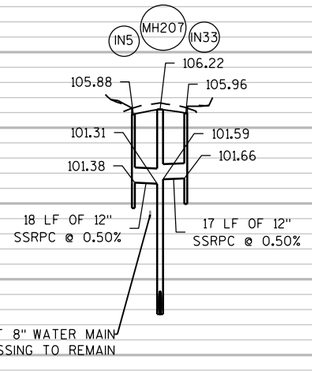
W. VLIET STREET

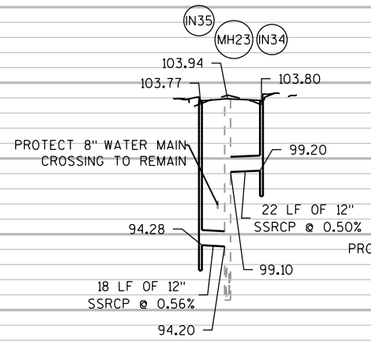
28VL 30VL 32VL 34VL 36VL 38VL 40VL 42VL

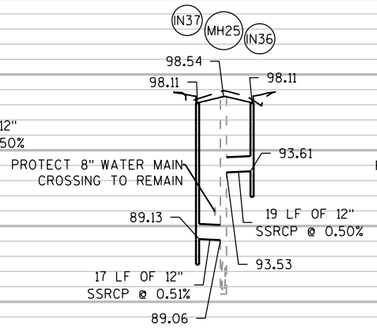
10NSF 10NSG 10NSH

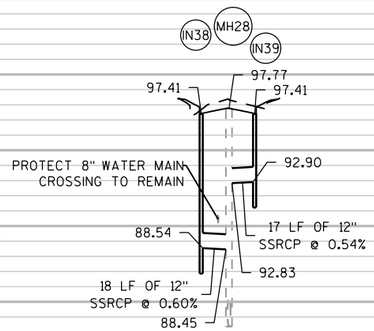
N











PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 106	E

2

MH31 STA 43VL+82, 0.8'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

MH30 STA 43VL+62, 6.5'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

IN06 STA 42VL+79, 18.0'LT
CATCH BASIN 44A - 57

IN41 STA 41VL+54, 18.0'LT
CATCH BASIN 44A - 57

R/L N. 18TH STREET

MH208 STA 41VL+54, 0.8'RT
MH 4'DIAMETER-TYPE 58A

R/L W. VLIET STREET

38VL 40VL 42VL 44VL 46VL 48VL 50VL 52VL

W. VLIET STREET

IN40 STA 41VL+54, 18.0'RT
CATCH BASIN 44A - 57

IN42 STA 42VL+79, 18.0'RT
CATCH BASIN 44A - 57

MH29 STA 42VL+97, 1.0'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

N. 18TH STREET

IONSH

IONSI

IONSJ

N. 17TH STREET

STA 44VL+00, 24.0'LT
CATCH BASIN 44A - 57 IN44

STA 44VL+25, 24.0'LT
CATCH BASIN 45A - 57 IN44A

STA 45VL+00, 18.0'LT
CATCH BASIN 44A - 57 IN07

STA 45VL+00, 0.5'RT
MH 4'DIAMETER-TYPE 58A MH02

STA 45VL+52, 18.0'LT
CATCH BASIN 44A - 57 IN46

R/L N. 17TH STREET NB

R/L N. 17TH STREET SB

STA 45VL+51, 20.4'RT
CATCH BASIN 44A - 57 IN47

STA 45VL+42, 0.5'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE MH33

STA 45VL+00, 18.0'RT
CATCH BASIN 44A - 57 IN45

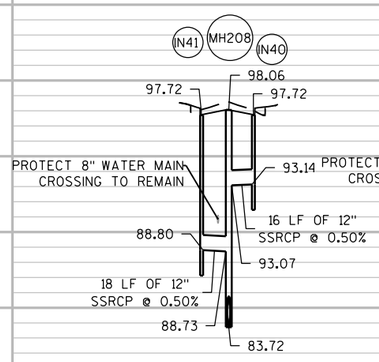
STA 44VL+72, 18.8'LT
CATCH BASIN 45A - 57 IN7A

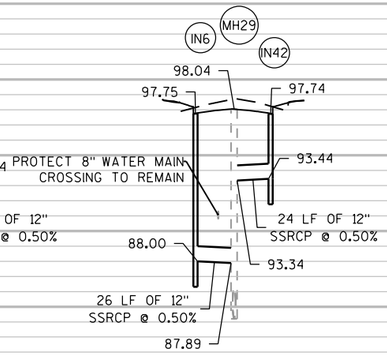
STA 43VL+98, 18.0'RT
CATCH BASIN 44A - 57 IN43

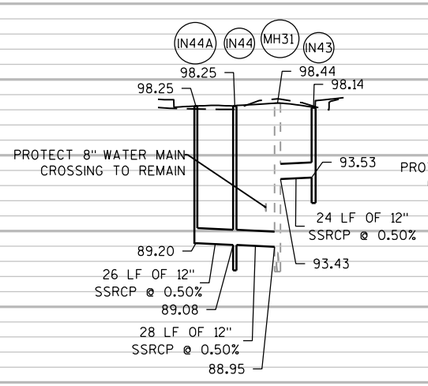
NOTE:
ALL PROPOSED LOCATIONS MEASURED TO
CENTER OF STRUCTUREAT FACE OF CURB,
WHERE APPLICABLE.

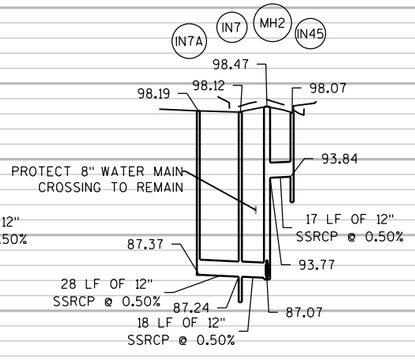
N

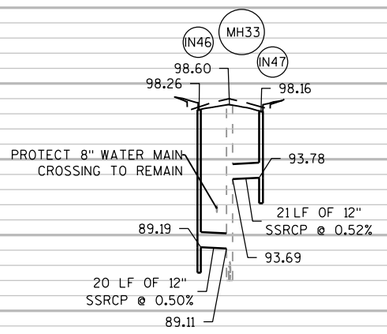
115 110 105 100 95 90 85 80 75











PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 107	E

NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.

IN63 STA 10NSI+42, 24.0' RT
CATCH BASIN 44A - 57

MH120 STA 10NSI+43, 4.8' LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

IN62 STA 10NSI+41, 23.0' LT
CATCH BASIN 44A - 57

STA 10NSI+92, 23.0' RT
CATCH BASIN 45A - 57 IN66

STA 10NSJ+51, 13.0' LT
CATCH BASIN 45A - 57 IN64

STA 10NSJ+52, 23.0' RT
CATCH BASIN 45A - 57 IN65

STA 47VL+93, 0.9' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE MH37

STA 47VL+99, 24.0' LT
CATCH BASIN 44A - 57 IN49

R/L N. 18TH STREET

R/L W. VLIET STREET

R/L N. 15TH STREET

N. 15TH STREET

40VL 42VL 44VL 46VL 48VL 50VL 52VL

10NSH 10NSI 10NSJ 10NSK

VLIET STREET

54

STA 48VL+01, 6.0' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE MH38

MH32 STA 44VL+63, 0.5' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

STA 47VL+93, 24.0' RT
CATCH BASIN 44A - 57 IN48

STA 47VL+10, 0.1' LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE MH36

MH34 STA 46VL+26, 0.9' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

STA 9NSI+65, 6.6' LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE MH119

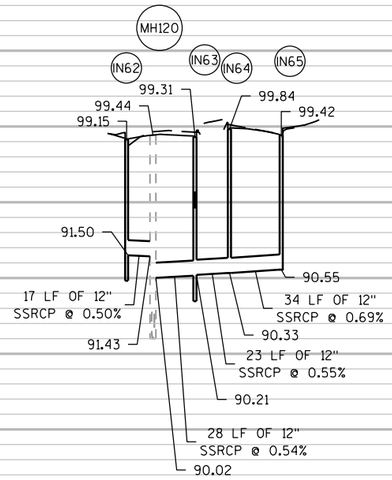
MH35 STA 46VL+53, 6.5' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

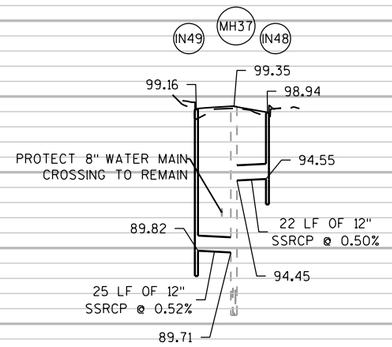
R/L N. 17TH STREET SB

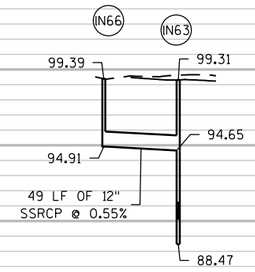
N. 17TH STREET

R/L 17TH STREET N. NB

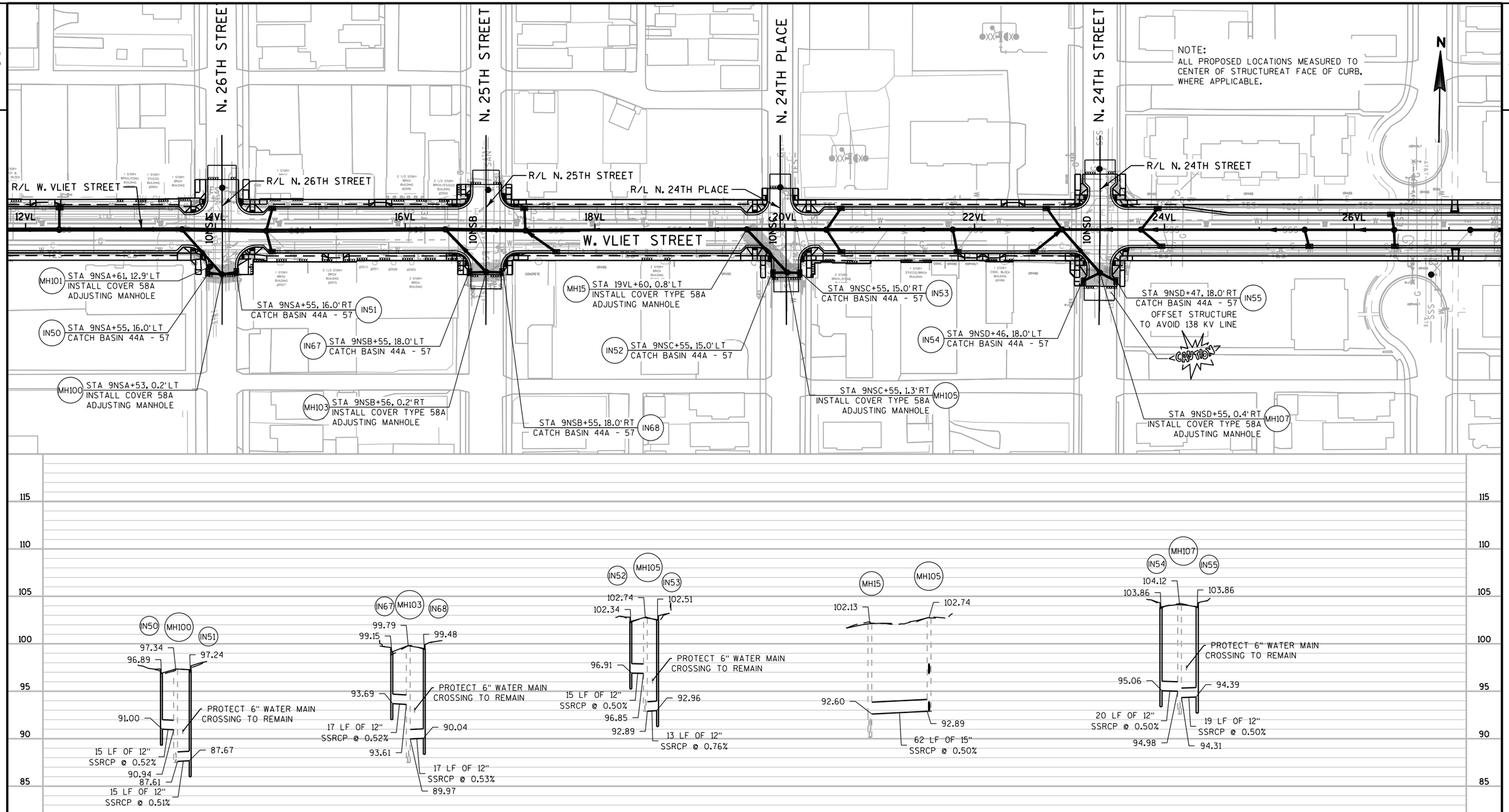
N



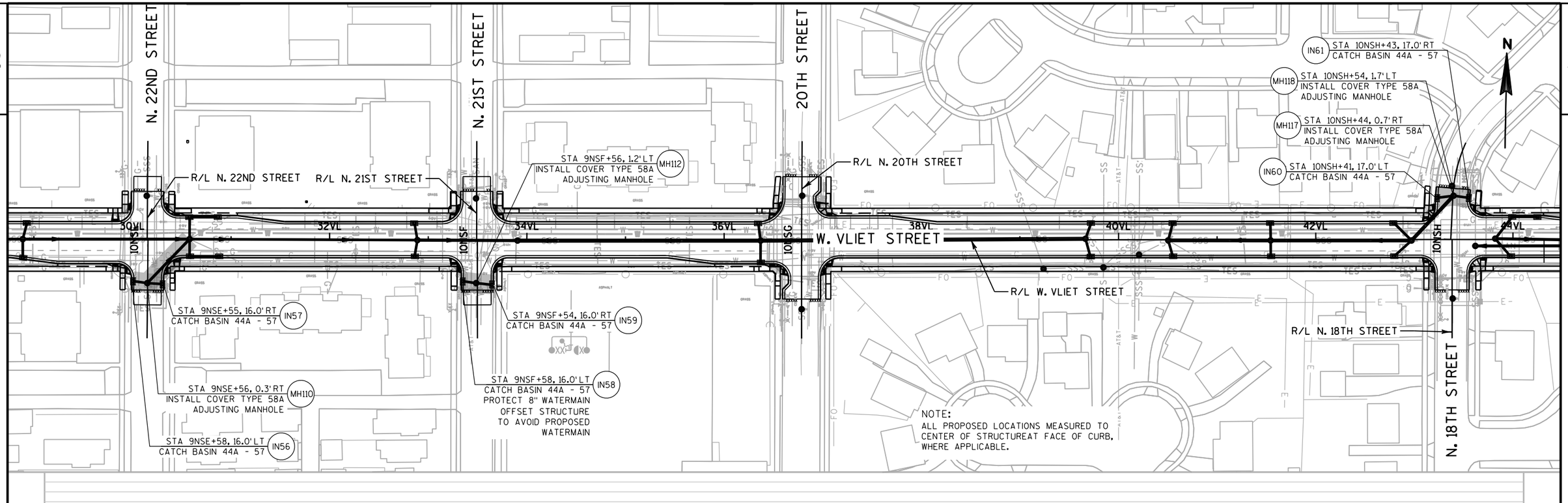


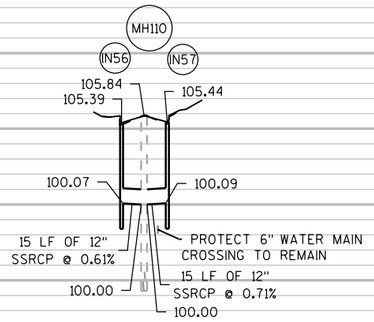


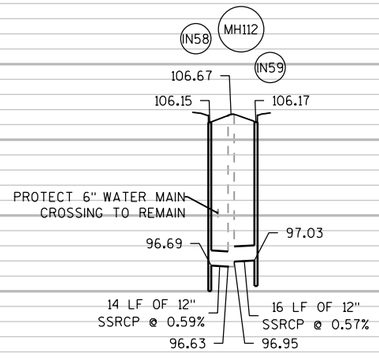
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 108	E

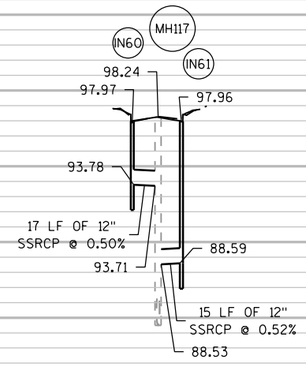


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 109	E









IN60: PROVIDE MINIMUM 2' HORIZONTAL SEPARATION FROM 54" FEEDER MAIN UNDER SIDEWALK IN NORTHWEST QUADRANT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 110	E

NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.

N. 17TH STREET

N. 15TH STREET

N. 14TH STREET

R/L N. 17TH STREET SB

R/L N. 17TH STREET NB

R/L N. 15TH STREET

R/L N. 14TH STREET

46VL 48VL 50VL 52VL 54VL 56VL 58VL

10NSJ 10NSK 10NSL

STA 48VL+50, 24.0'LT
CATCH BASIN 44A - 57
IN70

STA 48VL+50, 0.9'RT
MH 4' DIAMETER-TYPE 58A
MH218

STA 50VL+70, 24.0'LT
CATCH BASIN 44A - 57
IN74

MH42
STA 52VL+32, 0.3'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE

IN77
STA 52VL+01, 24.0'LT
CATCH BASIN 44A - 57

STA 54VL+14, 1.1'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH45

STA 54VL+27, 24.0'LT
CATCH BASIN 45A - 57
IN83

STA 55VL+00, 24.0'LT
CATCH BASIN 44A - 57
IN102

STA 55VL+12, 0.1'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH46

STA 54VL+80, 24.0'RT
CATCH BASIN 44A - 57
IN103

STA 54VL+45, 24.0'RT
CATCH BASIN 45A - 57
IN84

STA 54VL+13, 21.5'RT
CATCH BASIN 45A - 57
IN84A

STA 53VL+54, 5.7'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH44

STA 53VL+26, 0.5'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH43

STA 53VL+20, 24.0'RT
CATCH BASIN 44A - 57
IN80

STA 52VL+26, 24.0'RT
CATCH BASIN 44A - 57
IN78

STA 51VL+85, 24.0'RT
CATCH BASIN 45A - 57
IN75

STA 51VL+36, 24.0'RT
CATCH BASIN 45A - 57
IN75A

STA 49VL+83, 7.1'RT
INTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH40

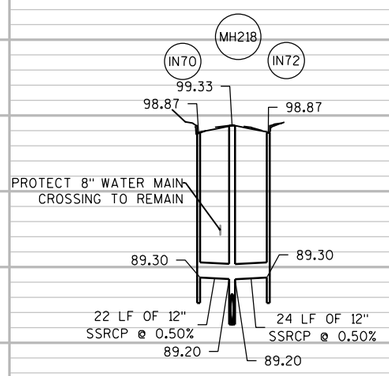
STA 50VL+38, 1.1'RT
INTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH41

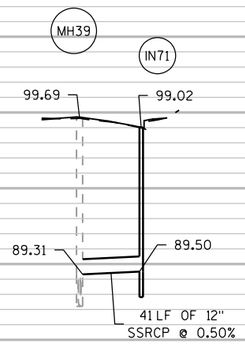
STA 50VL+70, 24.0'RT
CATCH BASIN 44A - 57
IN76

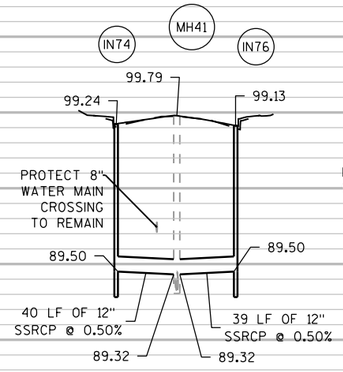
STA 48VL+50, 24.0'RT
CATCH BASIN 44A - 57
IN72

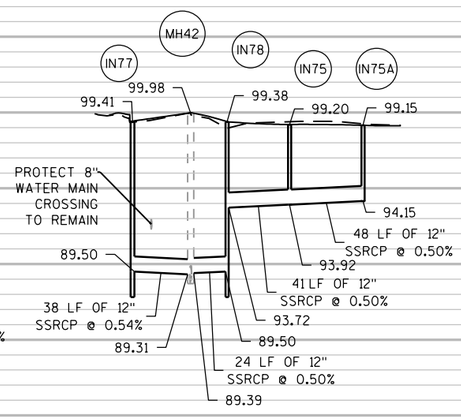
STA 49VL+20, 24.0'RT
CATCH BASIN 44A - 57
IN71

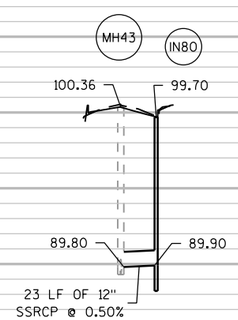
STA 49VL+54, 1.0'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH39

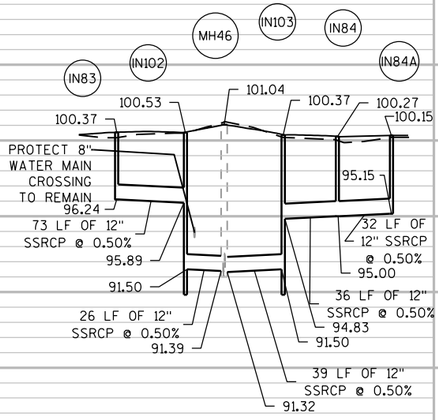












NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.

STA 10NSK+42, 17.0' LT
CATCH BASIN 44A - 57
IN81

STA 10NSK+44, 0.3'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH121

STA 10NSK+42, 17.0' RT
CATCH BASIN 44A - 57
IN82

STA 56VL+08, 1.6'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH47

STA 55VL+90, 24.0' LT
CATCH BASIN 44A - 57
IN85

STA 56VL+03, 24.0' RT
CATCH BASIN 44A - 57
IN86

STA 56+90, 7.0' RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH48

STA 10NSL+40, 15.0' LT
CATCH BASIN 44A - 57
IN106

STA 10NSL+45, 0.6'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH122

STA 10NSL+40, 15.0' RT
CATCH BASIN 44A - 57
IN89

STA 57VL+44, 5.4'RT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH50

STA 58VL+17, 24.0' LT
CATCH BASIN 44A - 57
IN90

STA 58VL+00, 24.0' RT
CATCH BASIN 44A - 57
IN91

STA 57VL+86, 0.1'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH51

STA 57+05, 1.8'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH49

STA 59VL+33, 24.0' LT
CATCH BASIN 45A - 57
IN104

STA 59VL+67, 24.0' LT
CATCH BASIN 44A - 57
IN92

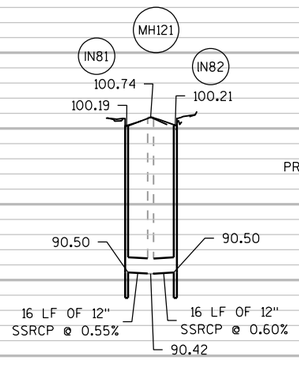
STA 60VL+34, 24.0' RT
CATCH BASIN 45A - 57
IN105

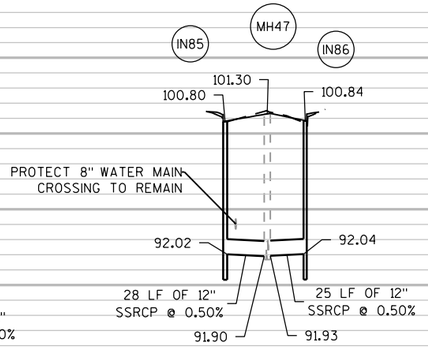
STA 59VL+83, 0.2'LT
INSTALL COVER TYPE 58A
ADJUSTING MANHOLE
MH53

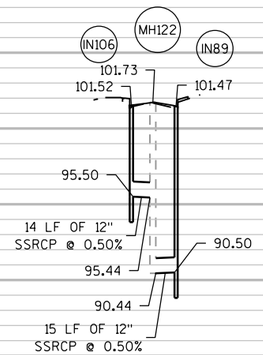
STA 59VL+75, 24.0' RT
CATCH BASIN 44A - 57
IN93

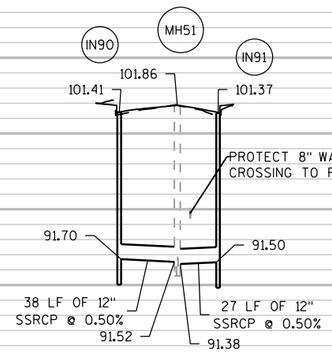
STA 59VL+50, 24.0' RT
CATCH BASIN 45A - 57
IN93A

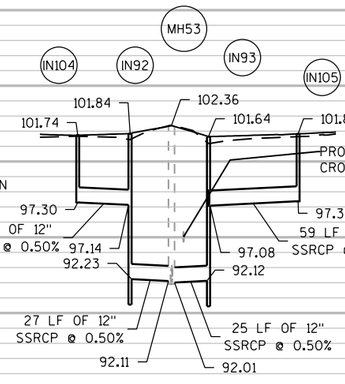
R/L N. 15TH STREET
R/L N. 14TH STREET
R/L N. 13TH STREET
R/L N. 12TH LANE
N. 15TH STREET
N. 14TH STREET
N. 13TH STREET
N. 12TH LANE
W. VLIET STREET
52VL
54VL
56VL
58VL
60VL
62VL
64VL
10NSK
10NSL
10NSM

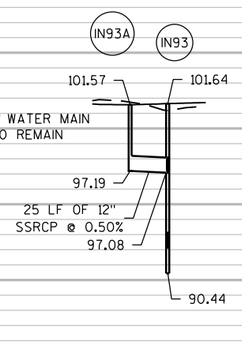












PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 112	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod\2022_10_13\2984009_ss2.dgn PLOT BY : ecastellan PLOT NAME : $FILE$ PLOT SCALE : 100:1

WISDOT/CADDS SHEET 41

NOTE:
ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTUREAT FACE OF CURB, WHERE APPLICABLE.

MH54 STA 60VL+81, 0.2'LT INSTALL COVER TYPE 58A ADJUSTING MANHOLE

IN94 STA 60VL+50, 24.0'LT CATCH BASIN 44A - 57

R/L N. 14TH STREET

IN95 STA 10NSM+40, 14.0'LT CATCH BASIN 45A - 57

IN96 STA 10NSM+42, 14.0'RT CATCH BASIN 45A - 57

MH55 STA 61VL+64, 0.9'RT INSTALL COVER TYPE 58A ADJUSTING MANHOLE

IN97 STA 61VL+75, 24.0'LT CATCH BASIN 44A - 57

IN98 STA 61VL+85, 24.0'RT CATCH BASIN 44A - 57

IN100A STA 64VL+00, 24.0'LT CATCH BASIN 44A - 57

IN100 STA 64VL+54, 24.9'LT CATCH BASIN 44A - 57

56VL 58VL 60VL 10NSL 10NSM 62VL 64VL

IN97A STA 62VL+00, 24.0'LT CATCH BASIN 45A - 57

R/L N. 13TH STREET

MH56 STA 63VL+77, 0.5'RT INSTALL COVER TYPE 58A ADJUSTING MANHOLE

MH123 STA 9NSM+62, 0.8'LT INSTALL COVER TYPE 58A ADJUSTING MANHOLE

IN99 STA 64VL+00, 24.0'RT CATCH BASIN 44A - 57

MH57 STA 64VL+53, 13.4'LT INSTALL COVER TYPE 58A ADJUSTING MANHOLE

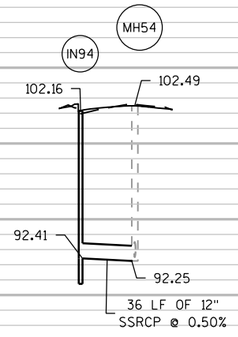
STA 64VL+84, 0.0'RT INSTALL COVER TYPE 58A ADJUSTING MANHOLE MH58

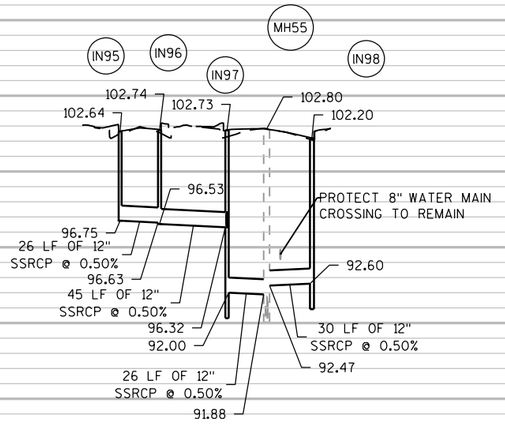
IN101 STA 64VL+67, 24.0'RT CATCH BASIN 44A - 57

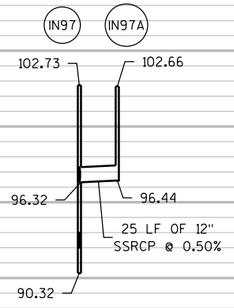
N. 14TH STREET

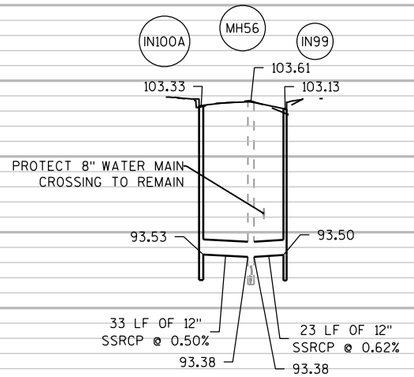
N. 13TH STREET

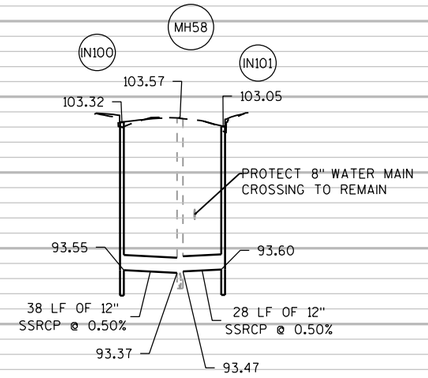
N











PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	STORM SEWER	SHEET 113	E

2

2

N

ASPHALT

GRASS

GRASS

GRASS

MH

MH

MH

MH

CAUTION

CAUTION

CAUTION

CAUTION

25VL

26VL

27VL

W. VLIET STREET

R/L VLIET STREET

+22 SH

+72 SH

+19 SH

+65 AH

+22 AH

+27 SMHL

+00 SMHL

+71 SMHL

+30 BN

MATCHLINE 27VL+50

ASPHALT

LEGEND

PLANT NEW TREE (TYPE) SEE KEY

PLANT KEY

SHAGBARK HICKORY (SH)	AMERICAN SWEETGUM 'MORAINE'(ASM)
COMMON BALDCYPRESS (CB)	TULIP TREE (TT)
SHADEMASTER HONEYLOCUST (SMHL)	NORTHERN RED OAK (NRO)
CALLERY PEAR (CP)	CUMULUS SERVICEBERRY (CS)
AUTUMN BLAZE MAPLE (ABM)	KENTUCKY COFFEETREE (CK)
SUNBURST HONEYLOCUST (SBHL)	BUTTERNUT (BN)
ACCOLADE ELM (AE)	IRONWOOD (IW)
AMERICAN SWEETGUM 'CHEROKEE'(ASC)	AMERICAN HORNBEAM (AH)

NOTES

1. ADJUST PLANTING LOCATION MIN 2'LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
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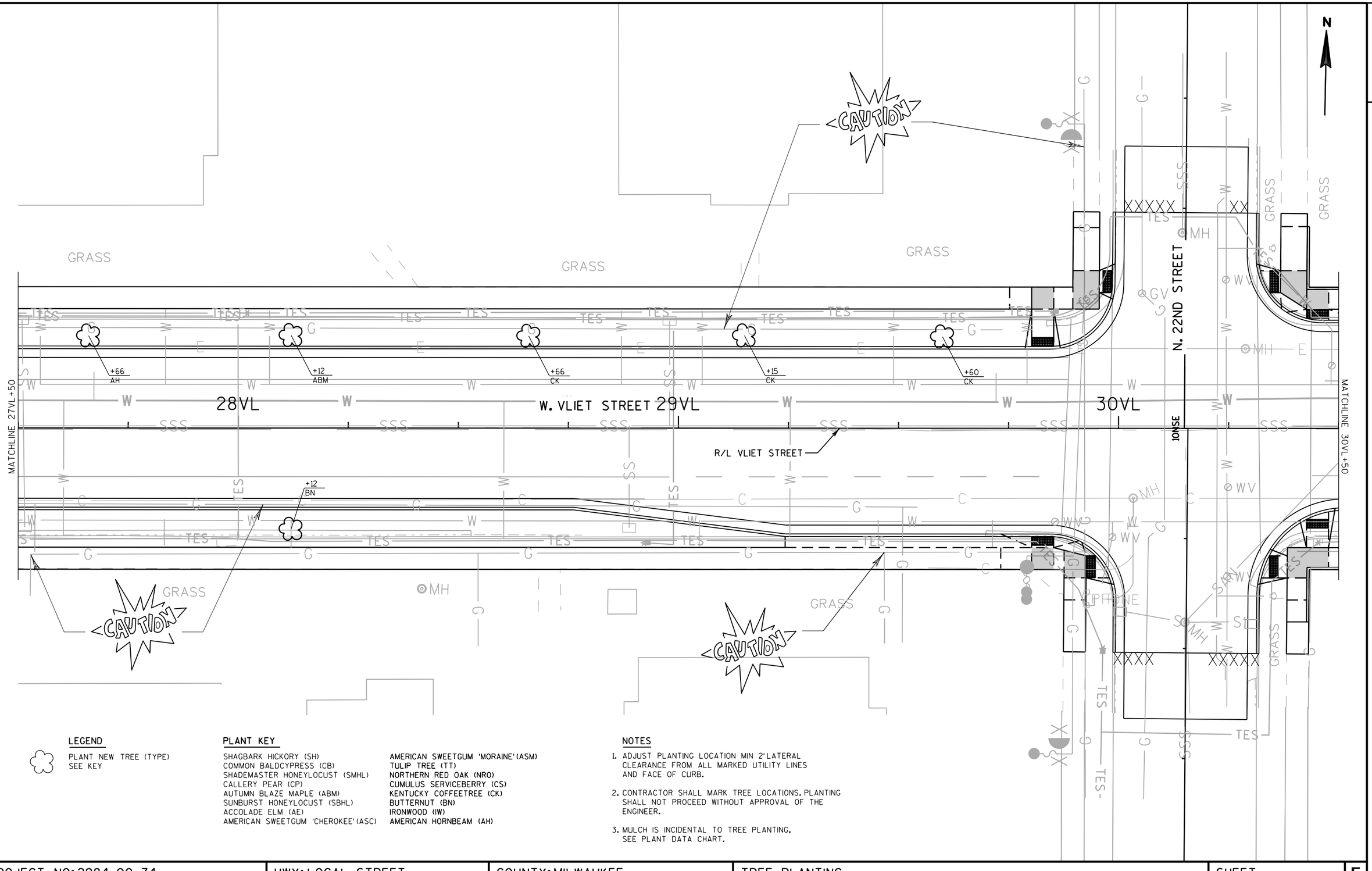
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TREE PLANTING	SHEET 114	E

2



LEGEND

PLANT NEW TREE (TYPE)
SEE KEY

PLANT KEY

SHAGBARK HICKORY (SH)	AMERICAN SWEETGUM 'MORAINE'(ASM)
COMMON BALDCYPRESS (CB)	TULIP TREE (TT)
SHADEMASTER HONEYLOCUST (SMHL)	NORTHERN RED OAK (NRO)
CALLERY PEAR (CP)	CUMULUS SERVICEBERRY (CS)
AUTUMN BLAZE MAPLE (ABM)	KENTUCKY COFFEETREE (CK)
SUNBURST HONEYLOCUST (SBHL)	BUTTERNUT (BN)
ACCOLADE ELM (AE)	IRONWOOD (IW)
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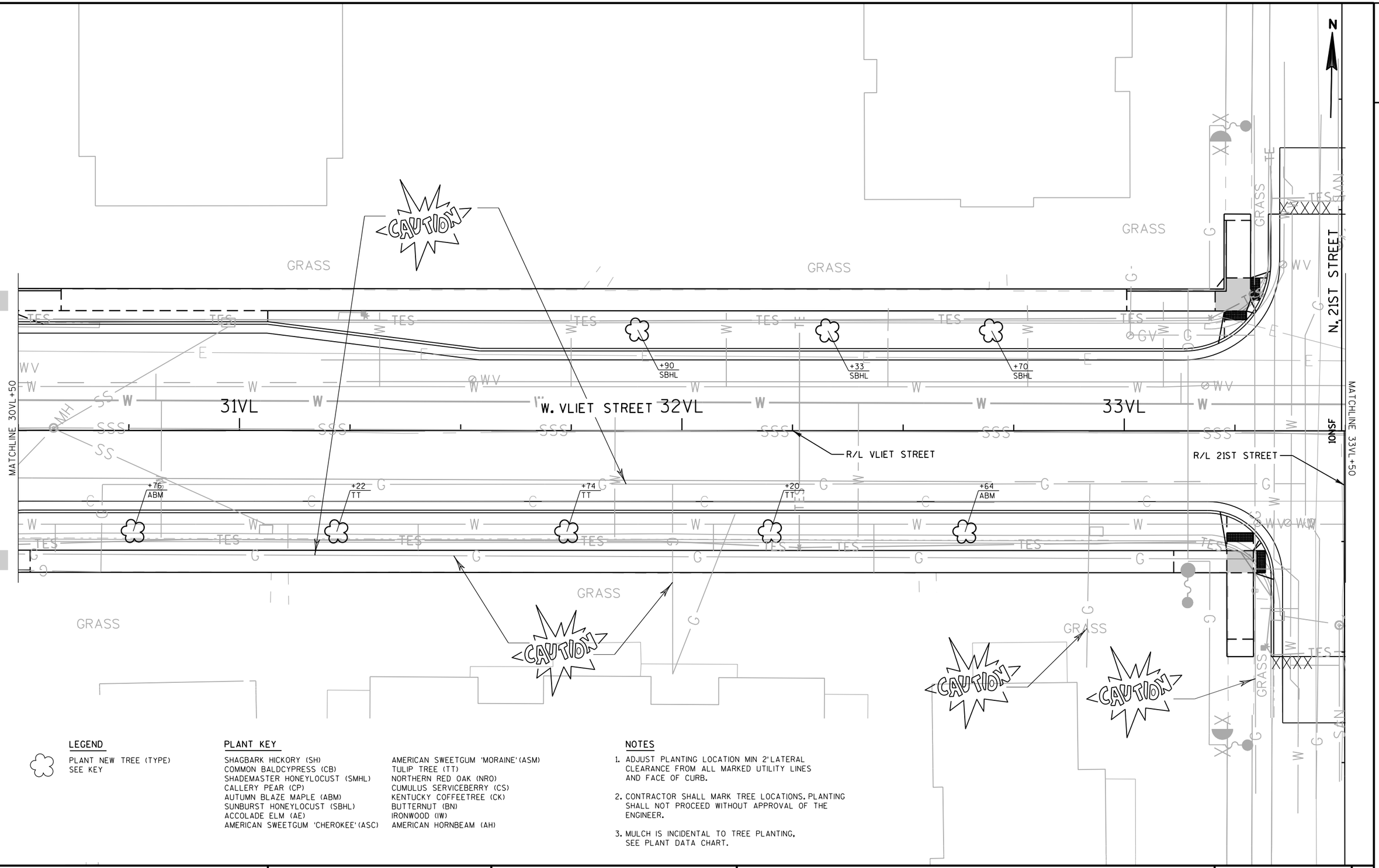
2



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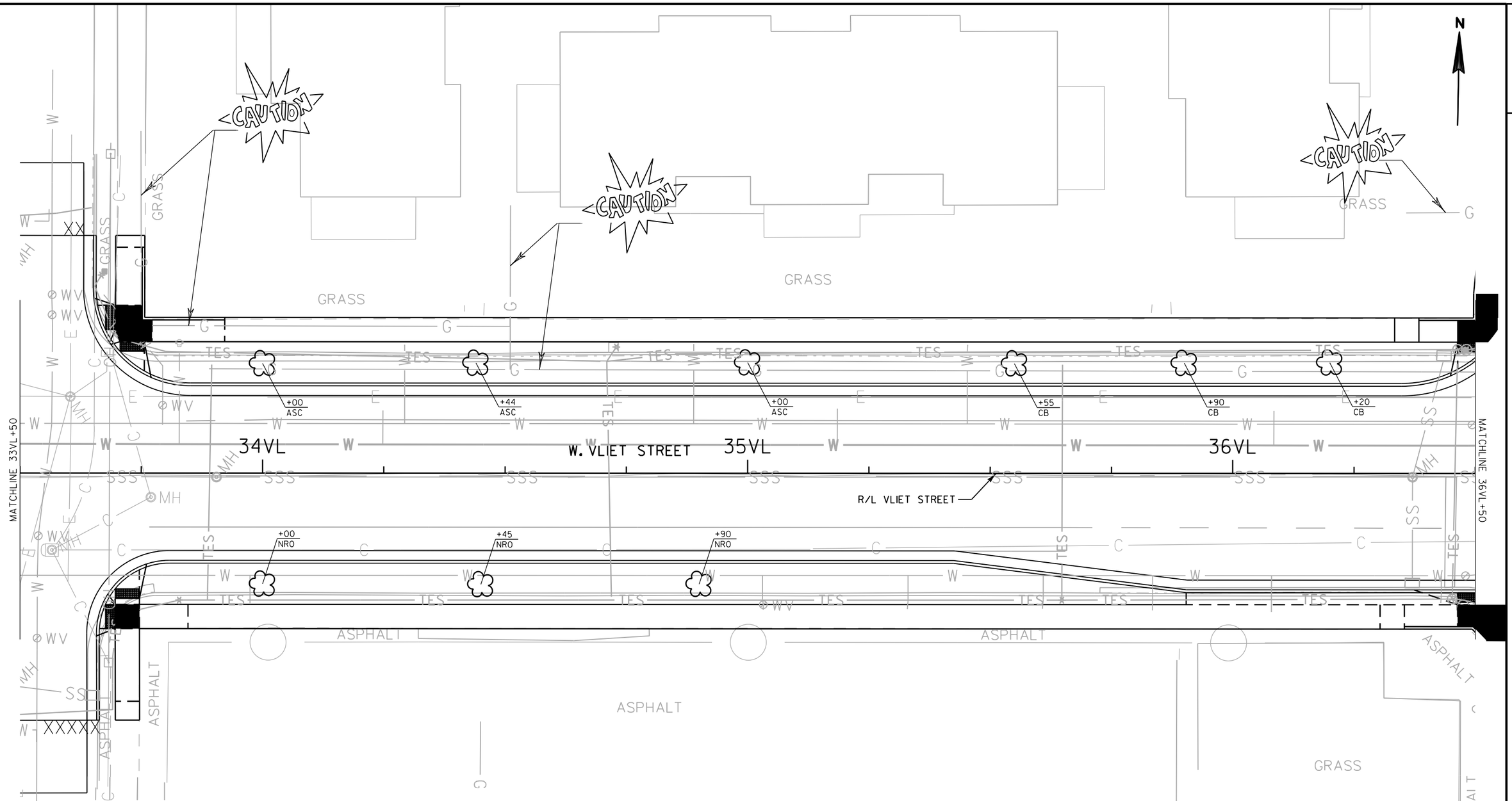

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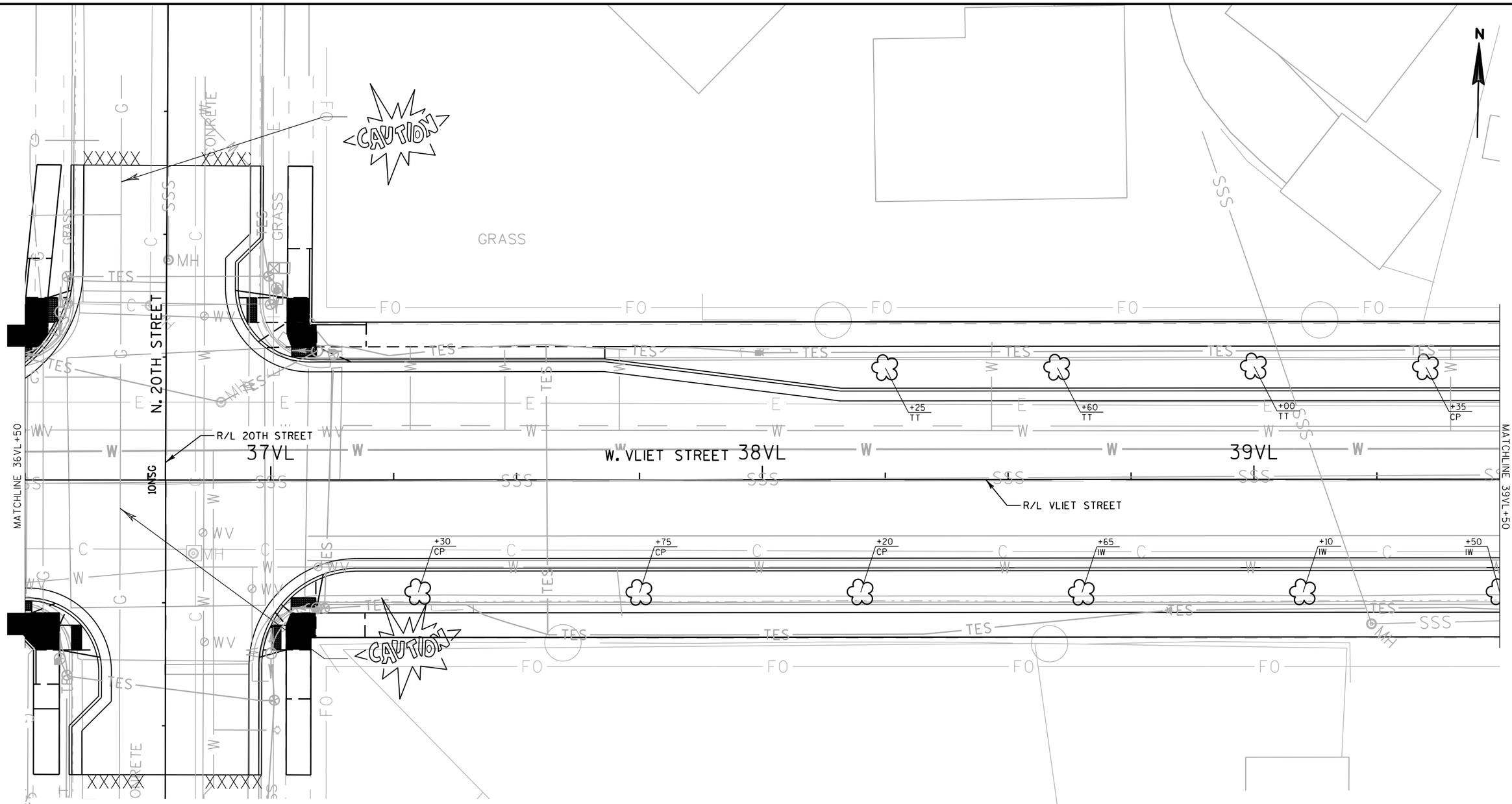
2



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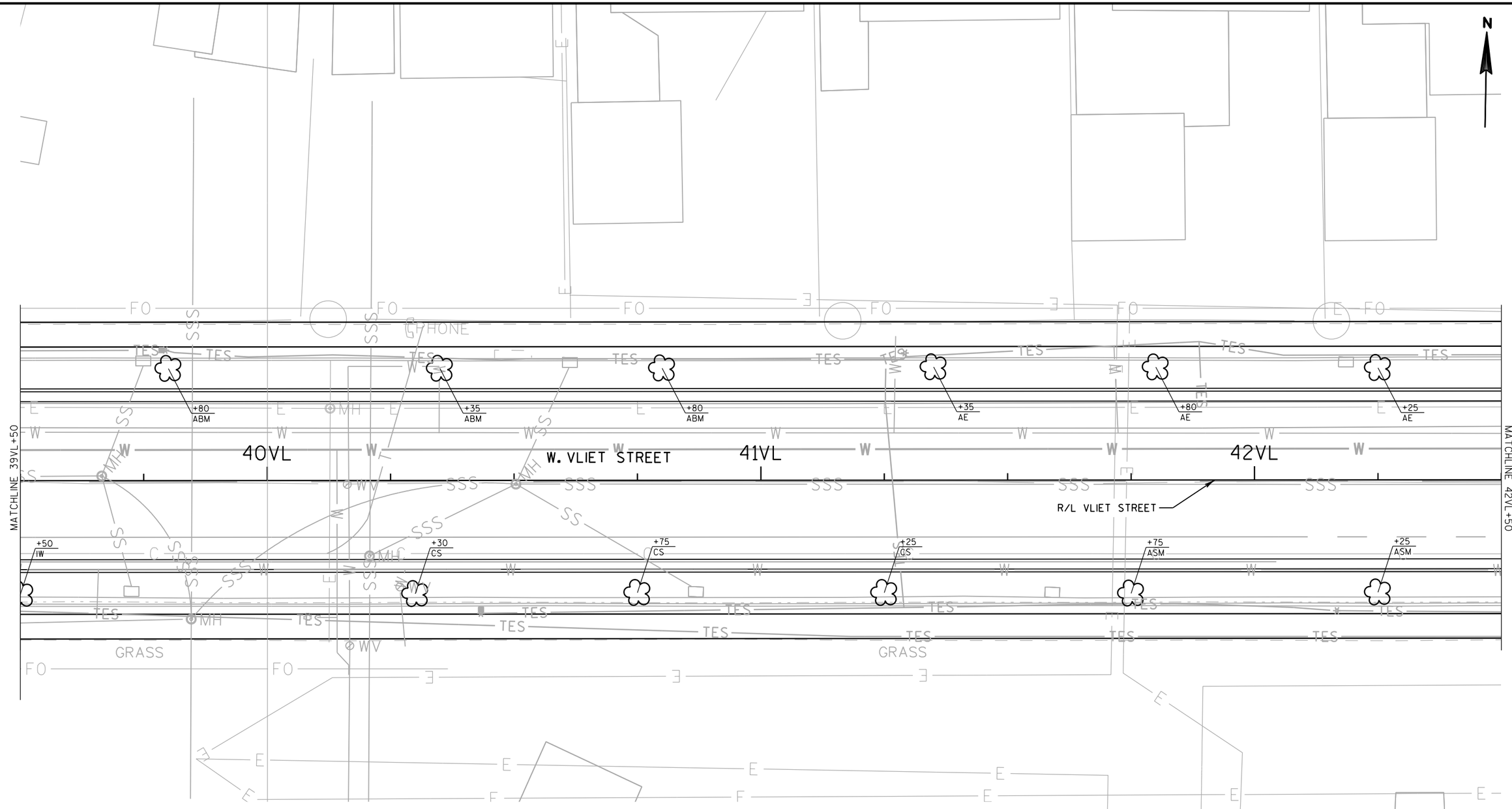
2



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2

N

W. VLIET STREET

N. 18TH STREET

43VL

44VL

45VL

R/L 18TH STREET

R/L VLIET STREET

MATCHLINE 42VL+50

MATCHLINE 45VL+50

CAUTION

GRASS

ASPHALT

CONCRETE

+70 CP

+30 SH

+70 ASM

+20 AH

+50 AH

+20 AH

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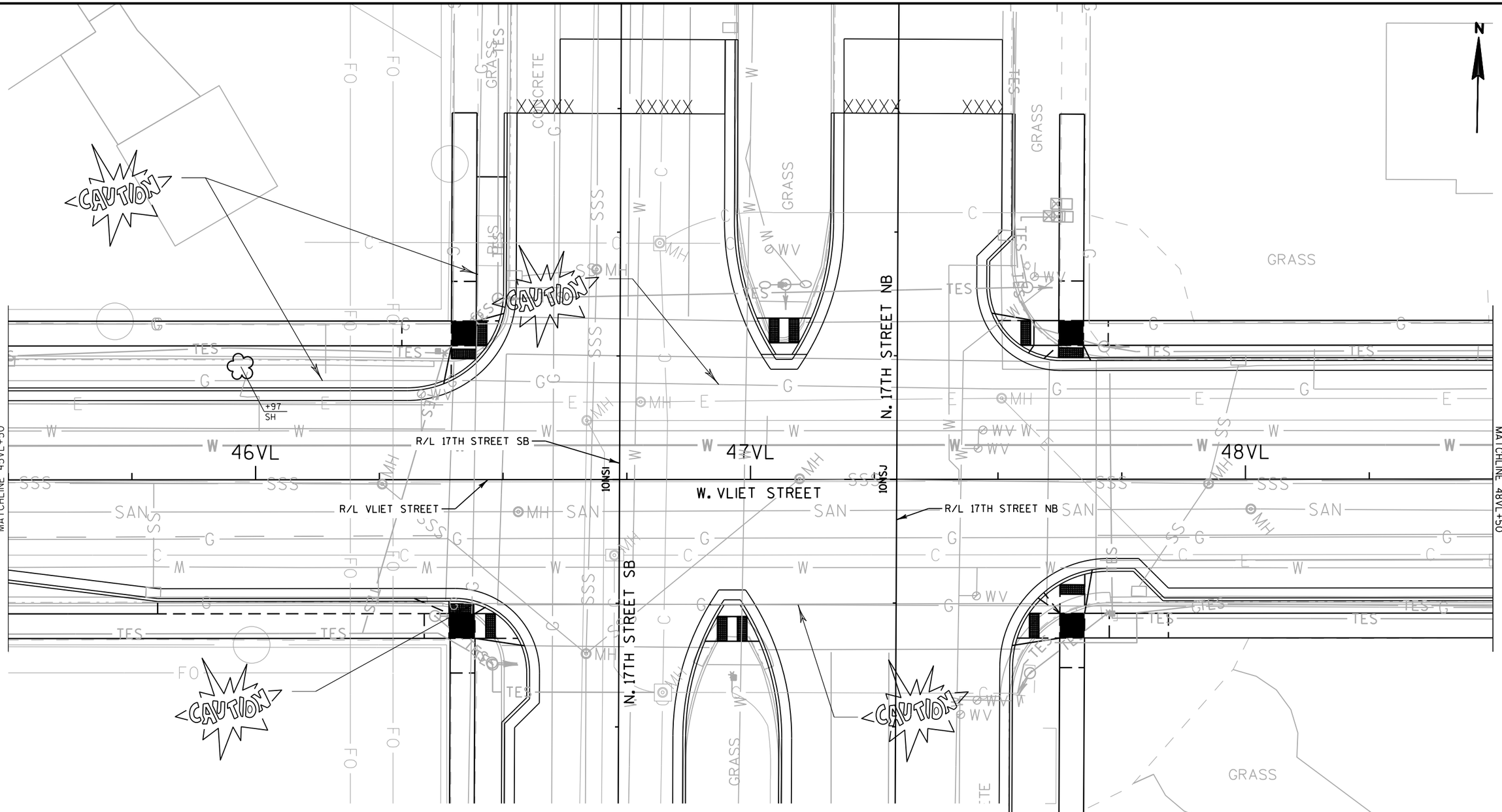
2



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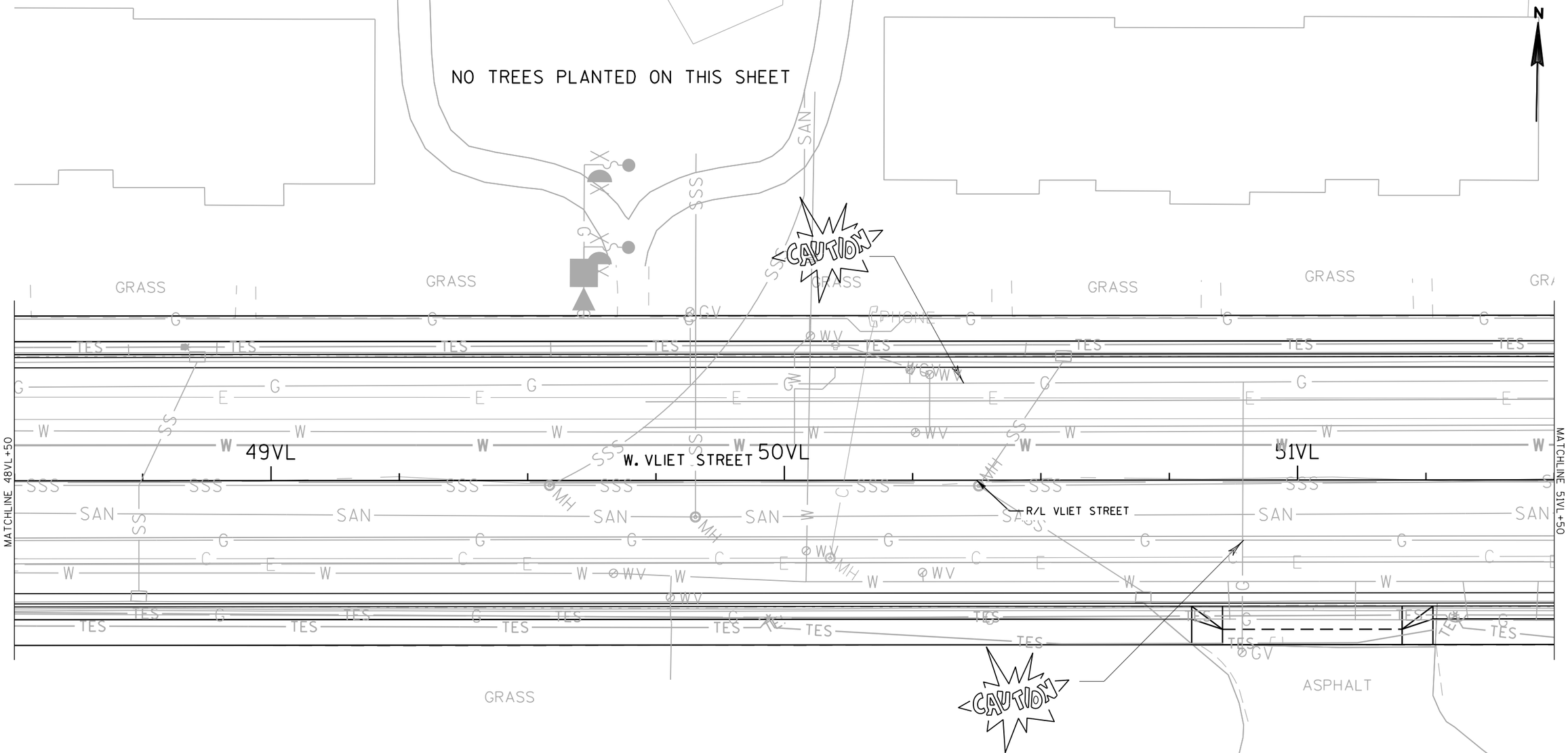
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TREE PLANTING	SHEET 121	E

2

NO TREES PLANTED ON THIS SHEET

N



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2

N

GRASS

GRASS

GRASS

GRASS

GRASS

MATCHLINE 51VL+50

52VL

53VL

54VL

N. 15TH STREET

R/L 15TH STREET

W. VLIET STREET

R/L VLIET STREET

IONSK

+65
AE

CAUTION

LEGEND

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PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TREE PLANTING	SHEET 123 E

2

STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652 TO 657 AND 659 EXCEPT:

ALL CHANGES OR ANY DEVIATIONS FROM PLANS MUST BE APPROVED BY STREET LIGHTING ENGINEERING.

1 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2 THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

3 LOCATIONS OF THE HDPE AND NONMETALLIC PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE CITY OF MILWAUKEE DPW STREET LIGHTING, APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.

4 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT A DISTANCE OF MINIMUM OF 6 INCHES AWAY FROM THE BACK OF CURB TO THE CENTER LINE OF CONDUIT, AND MINIMUM 24 INCHES DOWN MEASURED FROM THE TOP OF CURB OR FINISHED GRADE TO THE TOP OF CONDUIT.

5 DEPTH OF CONDUIT INSTALLED BELOW STREETS, HIGHWAYS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE) IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

6 CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.

7 WHEN THERE IS MORE THAN ONE CONDUIT TO BE INSTALLED, PLACE ALL CONDUITS IN THE SAME TRENCH, OR BORE MULTIPLE CONDUITS TOGETHER AT THE SAME TIME.

8 CONDUIT INSTALLATION THAT REQUIRE TRENCHING SHALL NOT BE BACKFILLED PRIOR TO INSPECTION ON THE CONDUIT.

9 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

10 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

11 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

12 PRIOR TO CONDUIT ACCEPTANCE, ALL OPEN CONDUIT ENDS, AND UN-TERMINATED CONDUITS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

13 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 CONDUIT RUNS SHALL BE THE SAME SIZE CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR PULL BOX TO CONCRETE BASE, OR BASE-TO-BASE ETC.). UNLEASS OTHERWISE NOTED ON PLANS.

16 UNLESS THE CONDUIT IS DESIGNED AND SHOWN WITH BENDS ON THE PLANS, ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO CONCRETE BASE, AND PULL BOX TO ENCLOSURE. OTHERWISE IT MUST BE APPROVED BY THE STREET LIGHTING ENGINEER.

2

STREET LIGHTING GENERAL NOTES:

17 MINIMUM CONDUIT CLEARANCES FOR CONDUIT CROSSINGS AND PULL BOXES FROM THE FOLLOWING:
FIRE HYDRANTS: 6-FT TREE TRUNKS: 10-FT END OF DRIVEWAY FLARES: 6-FT
UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED AND WILL BE CONSIDERED INCIDENTAL TO THE BID ITEM BEING INSTALLED. COORDINATE ALL WORK NEAR GAS LINES WITH WE ENERGIES.

19 TYPICAL RECTANGULAR PULL BOXES / VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

20 TYPICAL CONDUIT INSTALLATION FROM THE PULL BOX TO A DIRECT BURIED STREET LIGHT POLE IS AS FOLLOWS: USE A NYLON LIQUIDTIGHT CONNECTOR (UL APPROVED) TO CONNECT THE 1 1/2-INCH LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT LFNC-B (UL APPROVED) TO THE PULL BOX AND CONNECT TO STREET LIGHT POLE BY STUBBING UP A MINIMUM OF 6 INCHES OF THE LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT (LFNC-B) INTO THE CABLE SLOT.

21 ALL CONDUITS AND JUNCTION BOXES EMBEDDED IN STRUCTURE SHALL BE PAID UNDER STRUCTURE PAY ITEMS. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EMBEDDED CONDUITS.

22 AT EVERY BRIDGE JOINT, EXPANSION/DEFLECTION FITTINGS MUST BE USED TO PREVENT DAMAGE TO CONDUIT AND LIGHTING CIRCUITS. THIS ITEM IS INCIDENTAL TO THE CONDUIT BID ITEM, AND SHALL BE PAID UNDER STRUCTURE PAY ITEMS.

23 THE SUPPORT CHANNELS FOR INSTALLATION OF CONDUITS, LUMINAIRES, JUNCTION BOXES AND ENCLOSURES SHALL BE STAINLESS STEEL UNISTRUT P1000 SERIES OR APPROVED EQUAL, CHANNELS SHALL BE SLOTTED OR PERFORATED.

24 ALL HDPE OR NONMETALLIC PVC CONDUITS THAT CONNECT TO PULL BOXES REQUIRE A PVC END BELL CONNECTOR INSIDE THE PULL BOX

25 PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINETS, PULL BOXES AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO ASSOCIATED CONDUIT PAY ITEM.

26 PROVIDE 3 INCH PVC SCHEDULE 40 CONDUIT ELBOWS IN ALL GROUND MOUNTED CONCRETE LIGHT BASES FOR CABLE IN DUCT TYPE INSTALLATION. THIS WORK IS INCIDENTAL TO CONCRETE BASES PAY ITEMS.

27 AT EACH SIGNAL STANDARD BASE PROVIDE 2 INCH PVC SCHEDULE 40 CONDUIT FROM PULL BOX TO SIGNAL STANDARD BASE. INSTALLATION OF PULL BOX AND CONDUIT ARE INCIDENTAL TO SIGNAL STANDARD BASE INSTALLATION WORK.

28 CONDUCTOR COLORS: 240/480, 1 PHASE - BLACK (HOT) // WHITE (NEUTRAL) // RED (HOT) // GREEN (GROUND).

29 INSTALL COMMON GROUND CONDUCTOR IN CONDUIT WHERE MULTIPLE BRANCH CIRCUITS CONDUCTORS ARE INSTALLED IN SAME CONDUIT AND SPLICE THE GROUND CONDUCTOR WITH TAP CONNECTOR IN PULLBOX.

30 PROVIDE MINIMUM CABLE/CONDUCTOR(S) SLACK AS NOTED BELOW:
PULL BOXES: 3-FT EMBEDDED JUNCTION BOXES: 3-FT
DISTRIBUTION CENTER/LOAD CENTER: 10-FT BREAK AWAY TRANSFORMER BASE: 2-FT

31 UNDERGROUND WIRE & CONDUIT SHOWN ON PLANS TO BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.

32 LIGHT POLES INSTALLED BEHIND THE CURB NEED TO BE SET 30 INCHES BACK FROM FACE OF CURB TO CENTER OF POLE, SO TO MEET THE MINIMUM DISTANCE OF 24 INCHES FROM THE CURB FACE TO THE CURB SIDE FACE OF THE POLE.

33 ON ALL NEW STREET LIGHT POLES A PLAQUE WITH THE POLE NUMBER AS SHOWN ON THE PLANS SHALL BE AFFIXED ONTO THE POLE SHAFT.

34 ALL WIRE CONNECTIONS REQUIRE ANTI-OXIDANT TO BE APPLIED TO THE CONNECTIONS

35 ALL HARDWARE NUT AND BOLT CONNECTIONS REQUIRE ANTI SEIZE TO BE APPLIED TO THEM

STREET LIGHTING GENERAL NOTES:

36 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND PULL BOXES/ VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - NEAL KARWEIK (OFFICE 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - WILLIE COTTON (OFFICE) 414-286-5997 (CELL) 414-708-1629
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - RUDY GUTIERREZ (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

37 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES / VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - NEAL KARWEIK (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - WILLIE COTTON (OFFICE) 414-286-5997 (CELL) 414-708-1629
STREET LIGHTING - STEVEN RHODA (OFFICE) 414-286-5942 (CELL) 414-708-4251
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - RUDY GUTIERREZ (OFFICE) 414-286-5941 (CELL) 414-708-5148
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38 CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS FOR ALL WORK BEING DONE DETAILING THE FINAL PLACEMENT OF CONDUIT, CABLING, EQUIPMENT, AND GEOMETRIC MODIFICATIONS UNDER THE CONTRACT. PROVIDE (.PDF FORMAT) COPY CONFORMING TO CMM 1-65.14, OR RECORD ALL CHANGES IN RED INK ONLY ON THE AS-LET (DESIGN) PAPER DRAWINGS. THE CITY OF MILWAUKEE DPW ENGINEER WILL REJECT AS-BUILTS WITH INCOMPLETE OR INCORRECT CONTENT OR NOT CONFORMING TO CMM STANDARDS.

39 CONTRACTOR TO DELIVER THE FOLLOWING REMOVED STREET LIGHTING MATERIALS:
-ALUMINUM AND WOOD POLES
-LUMINAIRE BRACKET ARMS
-LUMINAIRES
-BREAKAWAY TRANSFORMER PEDESTALS
-WIRING PEDESTALS (GREEN IN COLOR)
TO CITY OF MILWAUKEE STREET LIGHTING YARD AT 1540 W. CANAL ST.
CALL RICO LOPEZ AT 414-286-5983 (CANAL OFFICE) OR 414-286-6123 (DPW FIELD OFFICE) OR DISPATCHER AT 414-286-5944
THREE (3) WORKING BEFORE TO COORDINATE DELIVERY OF MATERIALS

40 CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSAL OF CONCRETE POLES, CONCRETE BASES, AND WIRING.

41 CONTRACTOR SHALL DISPOSE OF REMOVED EXISTING LAMPS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

42 ONLY WHEN THE CITY OF MILWAUKE IS FURNISHING MATERIALS FOR A PROJECT THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE STREET LIGHTING SHOP YARD CONTACT PERSON FOUR (4) WORKING DAYS BEFORE, AND WILL NEED TO PROVIDE THE EXACT QUANTITY OF MATERIALS NEEDED. THE ADVANCE NOTICE WILL ALLOW THE SHOP TO GATHER THE REQUEST ITEMS FOR THE CONTRACTOR TO PICK UP AND SIGN FOR TAKING POSSESSION OF THE MATERIALS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MATERIALS THAT THEY TAKE POSSESSION OF AND FOR THE ANY RETURNING OF ANY UNSED MATERIALS BACK TO THE SHOP IN GOOD CONDITION. IF ANY MATERIALS COME BACK DAMAGED OR BROKEN THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING THE BROKEN OR DAMAGED ITEMS.

STREET LIGHTING SHOP YARD CONTACT PERSON:
NEAL KARWEIK 414-286-5943 (OFFICE) 414-708-4245 (CELL)
ALL THE MATERIALS MUST BE EITHER PICKED OR DROPPED OFF ALL AT ONE TIME.
THE STREET LIGHTING SHOP YARD HOURS FOR PICKING UP MATERIALS IS FROM 8AM TO 2PM:
MONDAY THROUGH FRIDAY.

CONTRACTOR MUST BE OUT OF THE SHOP YARD BY 2PM NO LATER.

STREET LIGHTING GENERAL NOTES:

2

AS-BUILT GUIDELINES:

PROVIDE AS-BUILT DRAWINGS DETAILING THE FINAL PLACEMENT OF CONDUIT, CABLING, EQUIPMENT, AND GEOMETRIC MODIFICATIONS UNDER THE CONTRACT. PROVIDE PDF COPY CONFORMING TO CMM 1-65.14, OR RECORD ALL CHANGES IN RED INK ONLY ON THE AS-LET (DESIGN) PAPER DRAWINGS. THE ENGINEER WILL REJECT AS-BUILTS WITH INCOMPLETE OR INCORRECT CONTENT OR NOT CONFORMING TO CMM STANDARDS.

IT IS CRITICAL THAT THE CONTRACTOR WORK ON THE AS-BUILT DRAWINGS WHILE THE JOB IS PROGRESSING, SO CHANGES ARE DOCUMENTED WHILE THEY ARE STILL FRESH IN YOUR MIND.

IF THERE IS A STRUCTURE DRAWING, INCLUDE ALL STRUCTURES DRAWING SHEETS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSERT ANY ADDENDUM OR REPLACEMENT DRAWING SHEETS. TO DO THIS, RENUMBER THEM SIMILARLY TO THE ORIGINAL DRAWING SHEET.
FOR EXAMPLE:
REVISED SHEET 5 WOULD REPLACE SHEET 5. HOWEVER, ALL THE ORIGINAL SHEETS SHALL REMAIN IN THE AS-BUILT. IF THE SHEET HAS BEEN REPLACED CROSS IT OUT WITH AN X AND INDICATE THE NUMBER OF ITS REPLACEMENT SHEET. IF ADDITIONAL SHEETS WERE ADDED, INSERT THEM IN THE ORIGINAL LOCATION AND LABEL THEM WITH THE PREVIOUS SHEET NUMBER FOLLOWED BY AN "A", "B", "C", ETC.

NOTE THE SHEET CHANGES ON THE TITLE SHEET UNDER THE ORDER OF SHEETS.

THE TITLE SHEET OF THE AS-BUILT DRAWING SHOULD INCLUDE THE FOLLOWING INFORMATION:
AS-BUILT DRAWING
SUPERVISOR:
PROJECT MANAGER:
CONTRACTOR LEADER:
CONTRACTOR COMAPNY:
WORK STARTED:
WORK COMPLETED:

LINE OUT OR CROSS OUT ALL CHANGED INFORMATION AND WRITE-IN THE CORRECTED INFORMATION ABOVE THE ORIGINAL OR CLOSE TO IT WHEREVER POSSIBLE. USE BLANK SPACES ON THE DRAWING SO NOTES ARE NOT SUPERIMPOSED. DRAWINGS WITH EXCESSIVE DETAIL MAY REQUIRE AN ALTERNATE APPROACH. NUMBERED CHANGES OR ADDITIONS MAY BE SHOWN ON SUPPLEMENTAL NON-DRAWING SHEETS.

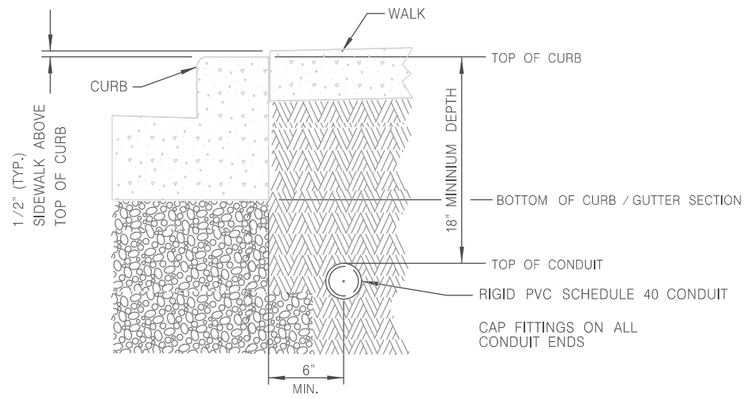
- LOCATE AND CLEARLY LABEL ALL CONDUIT RUNS, FITTINGS, SPLICE VAULTS, PULL BOXES, METER PEDESTALS, CONCRETE BASES, TRANSFORMERS, POLES AND OTHER APPURTENANCES IN TWO DIRECTIONS. SWING TIES SHOULD BE MADE FROM THE OBJECTS THAT ARE PERMANENT IN NATURE AND VISIBLE ON THE FINISHED SURFACE.
- STREET NAMES SHALL BE ON ALL SHEETS.
- SHOW ALL SIZES AND MATERIAL TYPES OF PIPES AND CONDUITS, IF CHANGED OR MODIFIED FROM ORIGINAL DESIGN.
- ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT (I.E., 205.3'). ALL VERTICAL DISTANCES SHALL BE TO THE NEAREST INCH (I.E., 24")
- SHOW LOCATION AND ELEVATIONS ON CONDUIT AND FITTINGS WHERE CHANGES OR DEFLECTIONS IN DIRECTION OCCUR.
- SPECIAL DETAIL DRAWINGS MAY BE REQUIRED WHERE INSTALLATIONS ARE NOT SHOWN ON APPROVED CONSTRUCTION DRAWINGS FOR WHATEVER REASON OR WHERE REQUIRED FOR CLARITY.
- TYPICAL SERVICE INSTALLATION DETAILS WITH DEVIATIONS FROM ORIGINAL PLANS OR STANDARD DETAILS SHALL BE NOTED ON AS-BUILT DRAWINGS.
- NO ARBITRARY MARK-UPS WILL BE PERMITTED.

IF THERE ARE NO CORRECTIONS OR ADDITIONS TO THE AS-LET PLAN(S) PUT "NO CHANGE" ON THE SHEET WITH ALL OTHER REQUIRED AS-BUILT INFORMATION.

SEND TO:
CITY OF MILWAUKEE
INFRASTRUCTURE SERVICES DIVISION
TRANSPORTATION SECTION
STREET LIGHTING & CUC MANAGER
841 NORTH BROADWAY, ROOM 920
MILWAUKEE, WISCONSIN 53202

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



100 DETAIL "A"

NOT TO SCALE

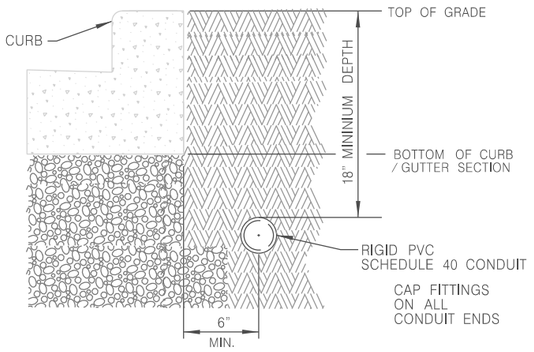
TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

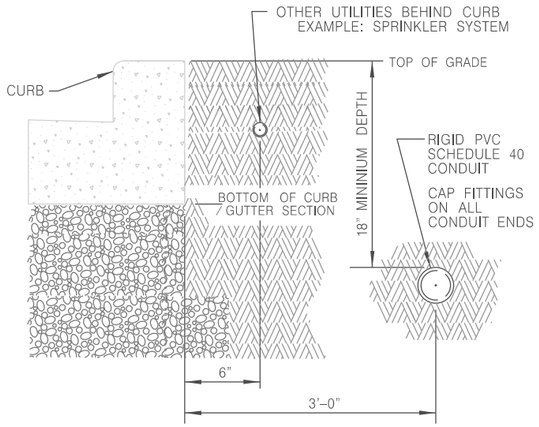
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "C"

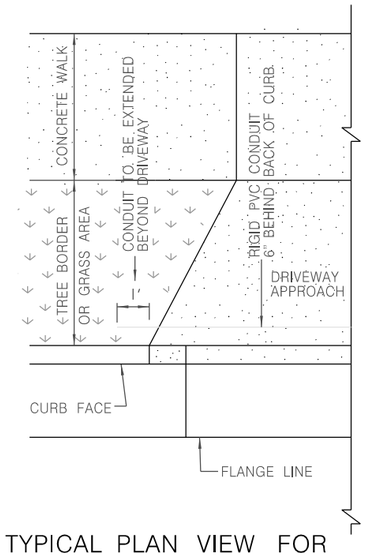


100 DETAIL "B" & "C"

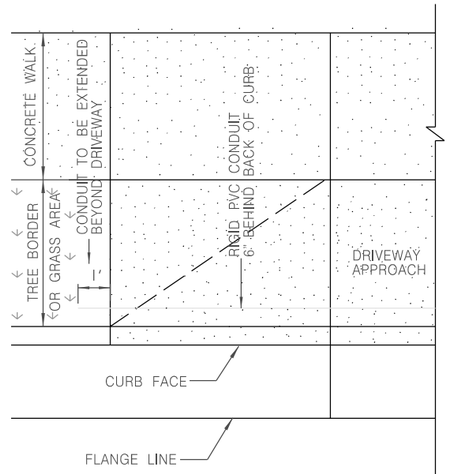
NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

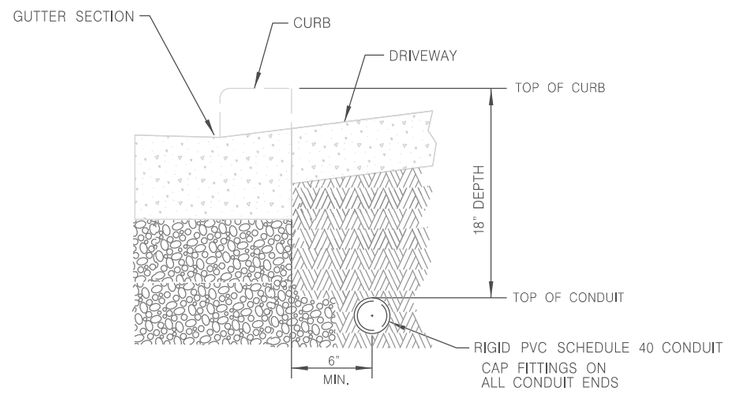


TYPICAL PLAN VIEW FOR
FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR
DEPRESSED DRIVEWAY

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



101 DETAIL

NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

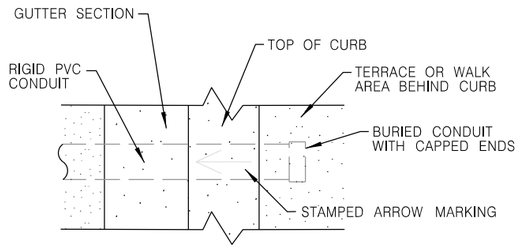
SHEET 3 OF 10

PROJECT NO: 2984-00-74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 126	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

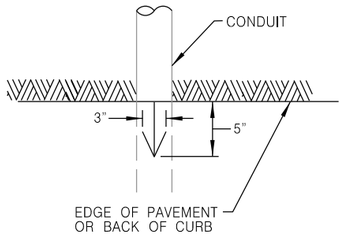


TOP VIEW OF CURB STAMPING

NOT TO SCALE

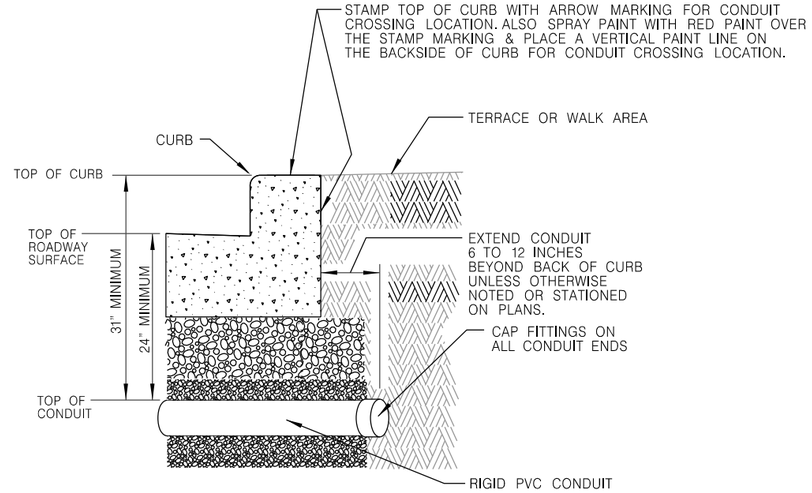
NOTE:

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4–INCH TO 3/8–INCH DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER THE PAVEMENT.



ARROW MARK

NOT TO SCALE



102

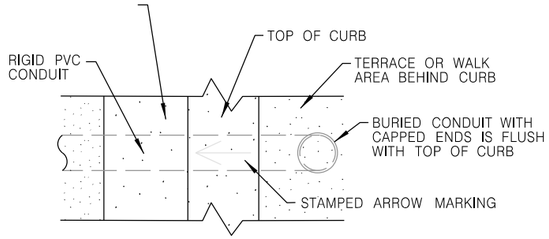
DETAIL VERSION #1

TYPICAL CONDUIT INSTALLATION FOR CROSSING ROADWAYS

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2

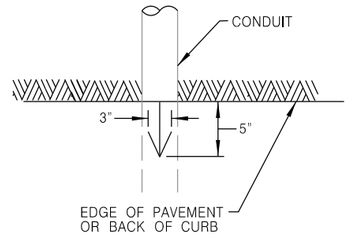


TOP VIEW OF CURB STAMPING

NOT TO SCALE

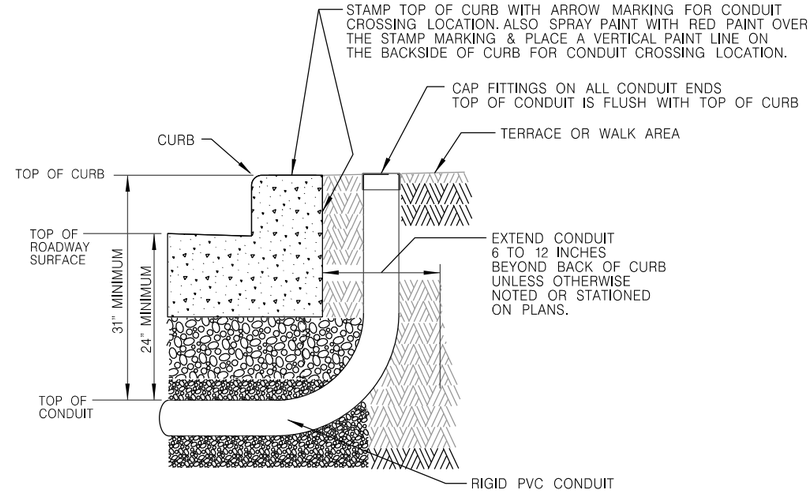
NOTE:

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4–INCH TO 3/8–INCH DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER THE PAVEMENT.



ARROW MARK

NOT TO SCALE



102

DETAIL VERSION #2

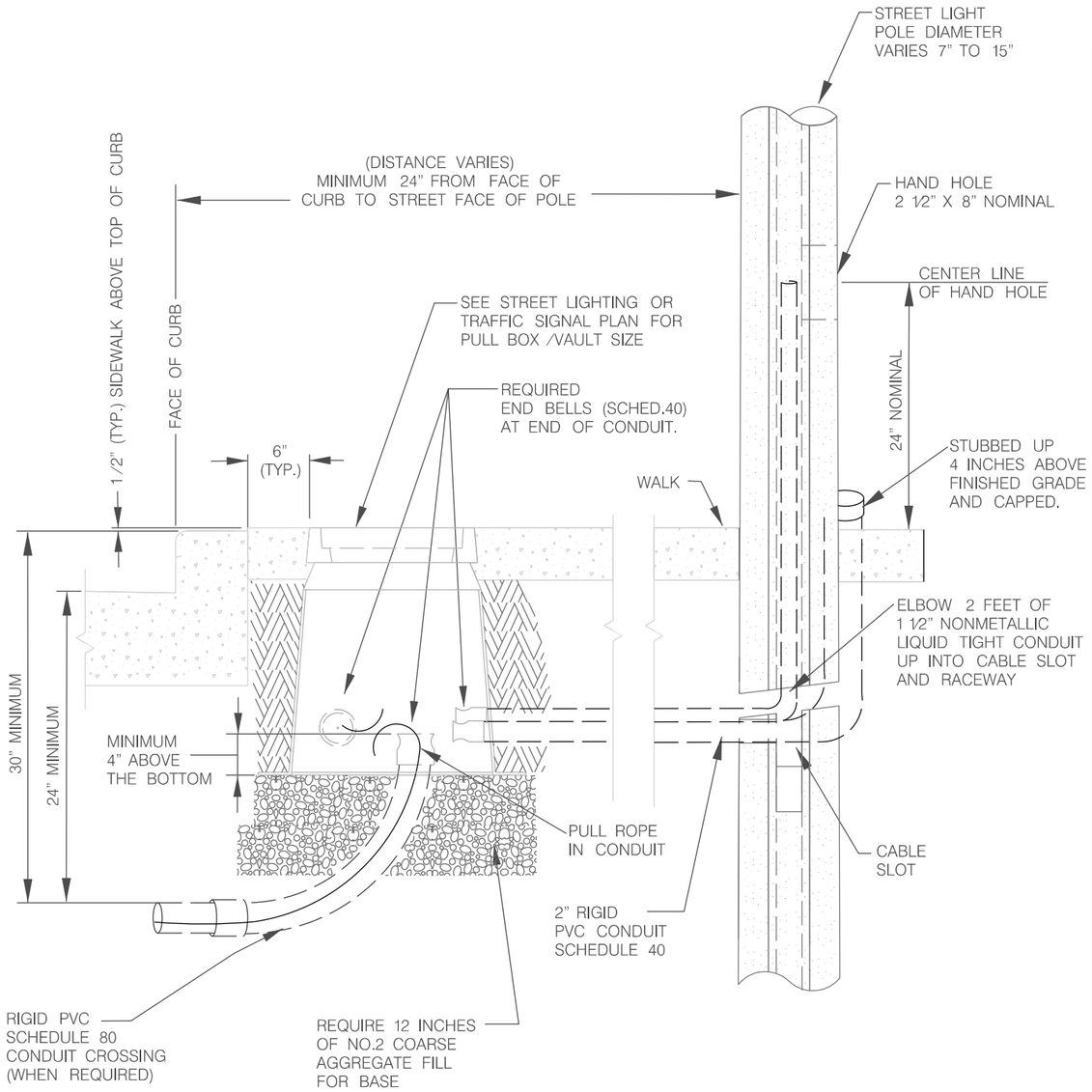
TYPICAL CONDUIT INSTALLATION FOR CROSSING ROADWAYS

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

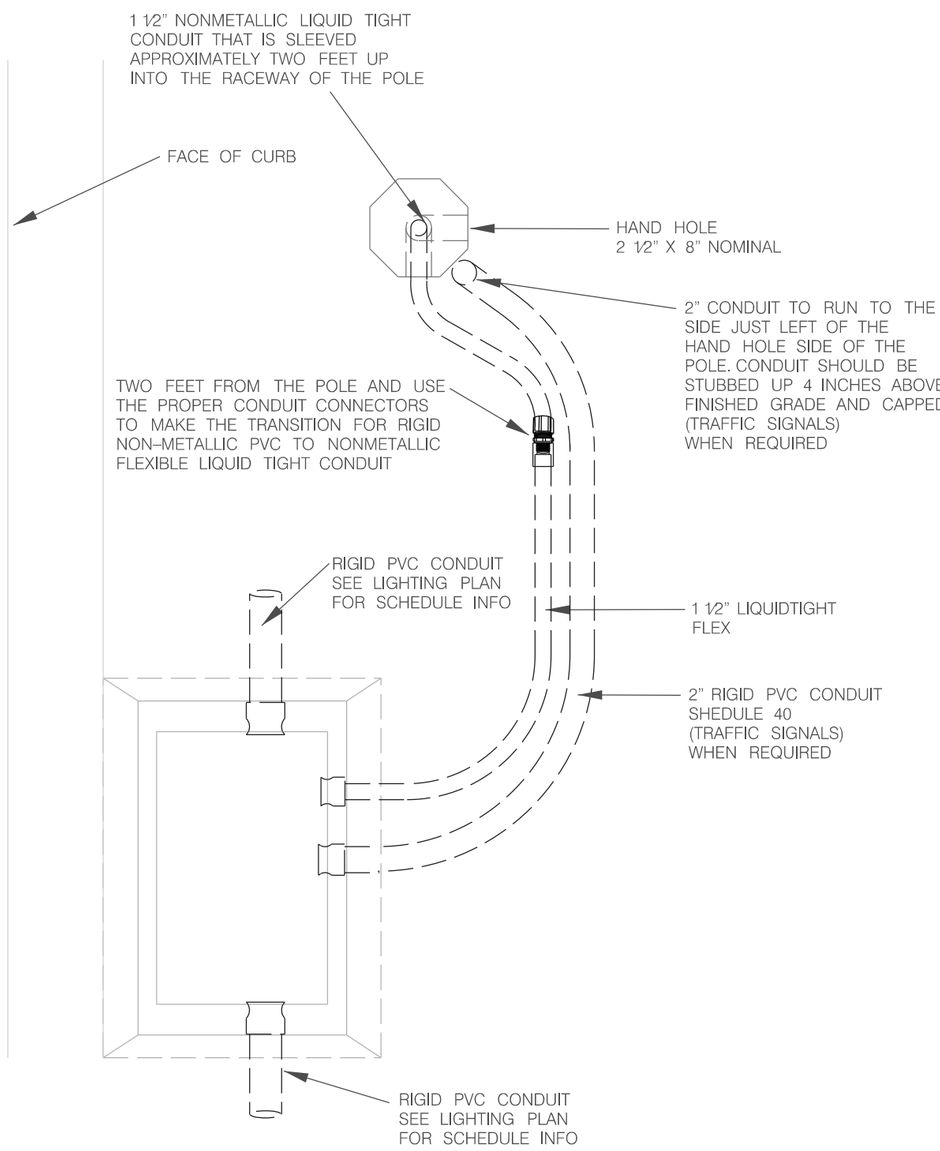
SHEET 4 OF 10

2



SECTION VIEW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

108A

DETAIL VERSION

TYPICAL CONDUIT INSTALLATION
FROM PULL BOX / VAULT TO POLE

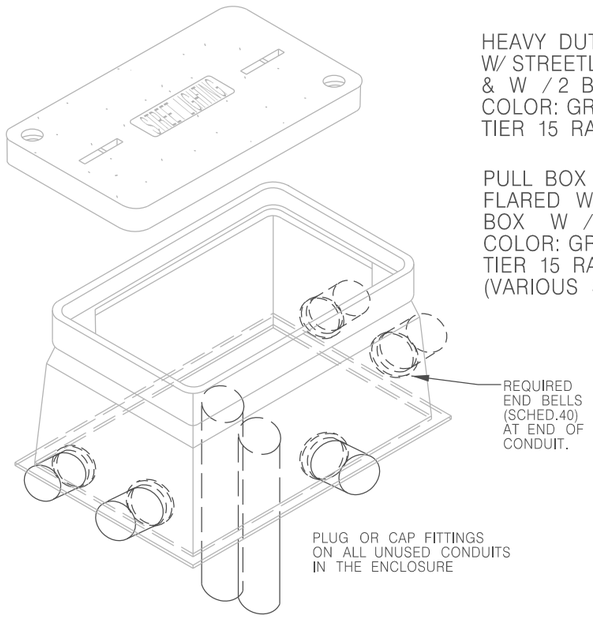
NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

PROJECT NO: 2984-00-74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 128	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

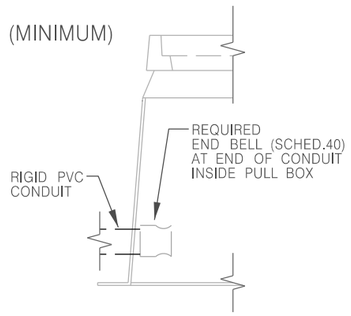


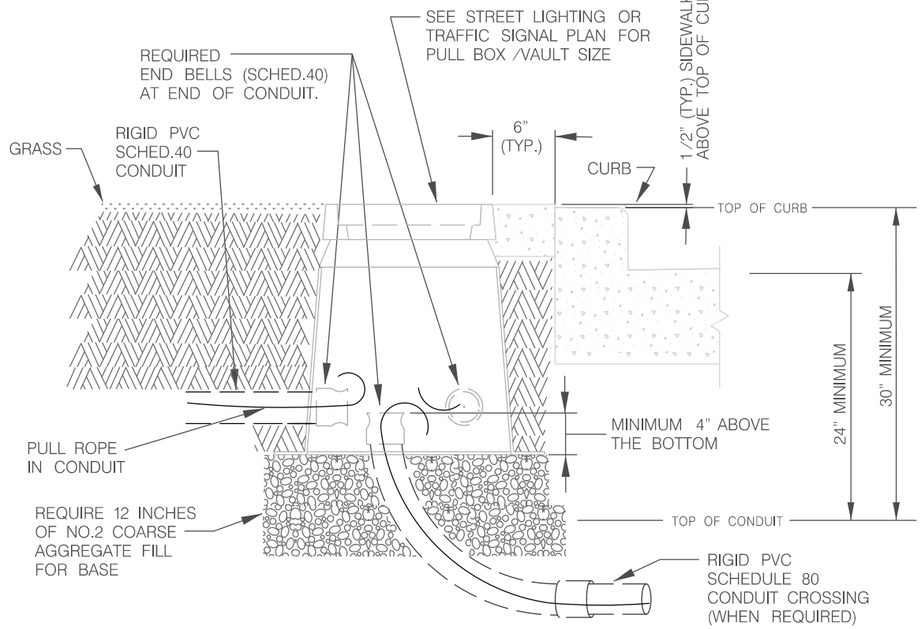
HEAVY DUTY COVER
W/ STREETLIGHTING LOGO
& W / 2 BOLTS
COLOR: GRAY
TIER 15 RATING (MINIMUM)

PULL BOX /VAULT
FLARED WALL
BOX W / NO BASE
COLOR: GRAY
TIER 15 RATING (MINIMUM)
(VARIOUS SIZES)

REQUIRED
END BELLS
(SCHED.40)
AT END OF
CONDUIT.

PLUG OR CAP FITTINGS
ON ALL UNUSED CONDUITS
IN THE ENCLOSURE





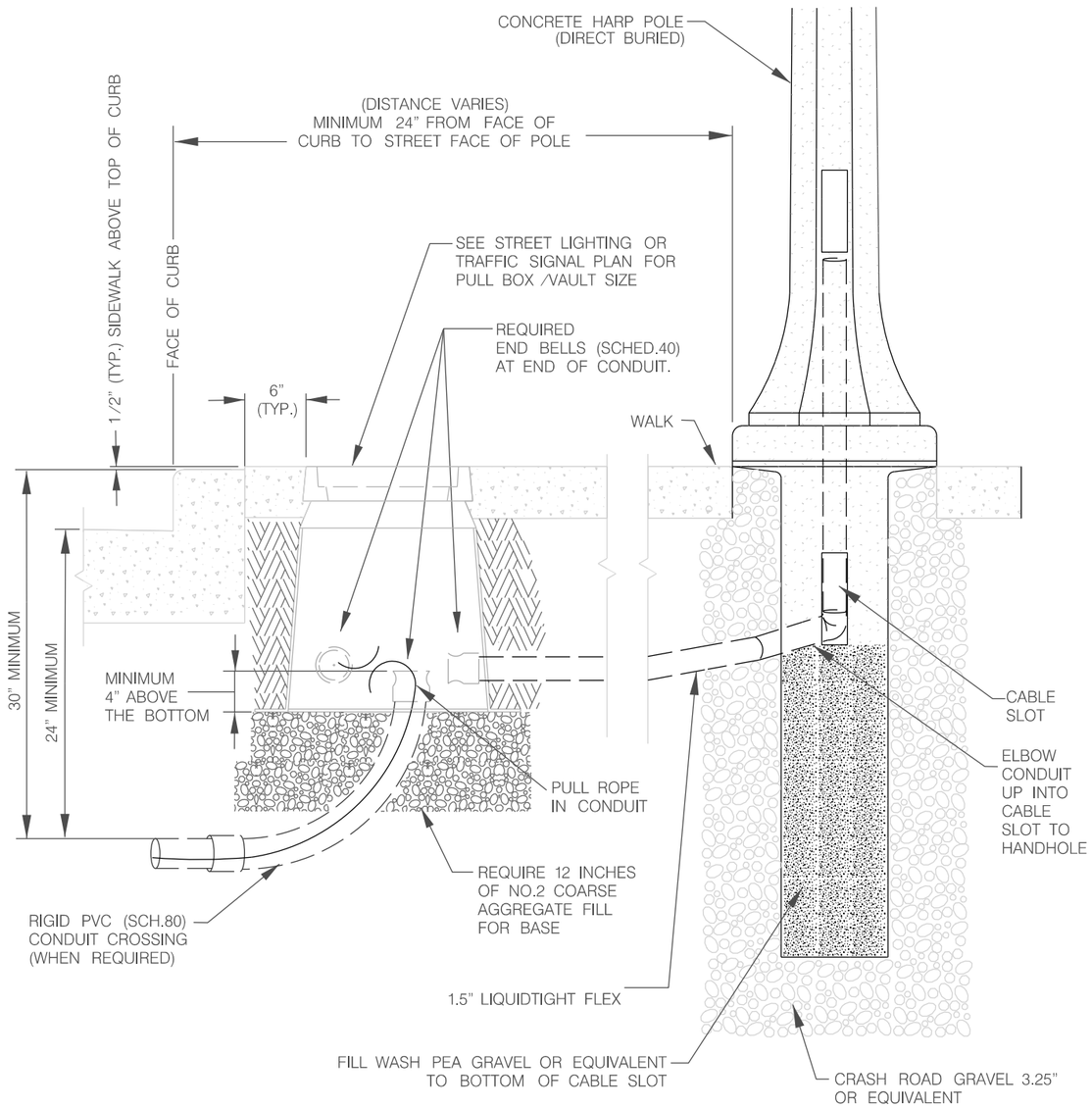
112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION
IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

2



123 DETAIL

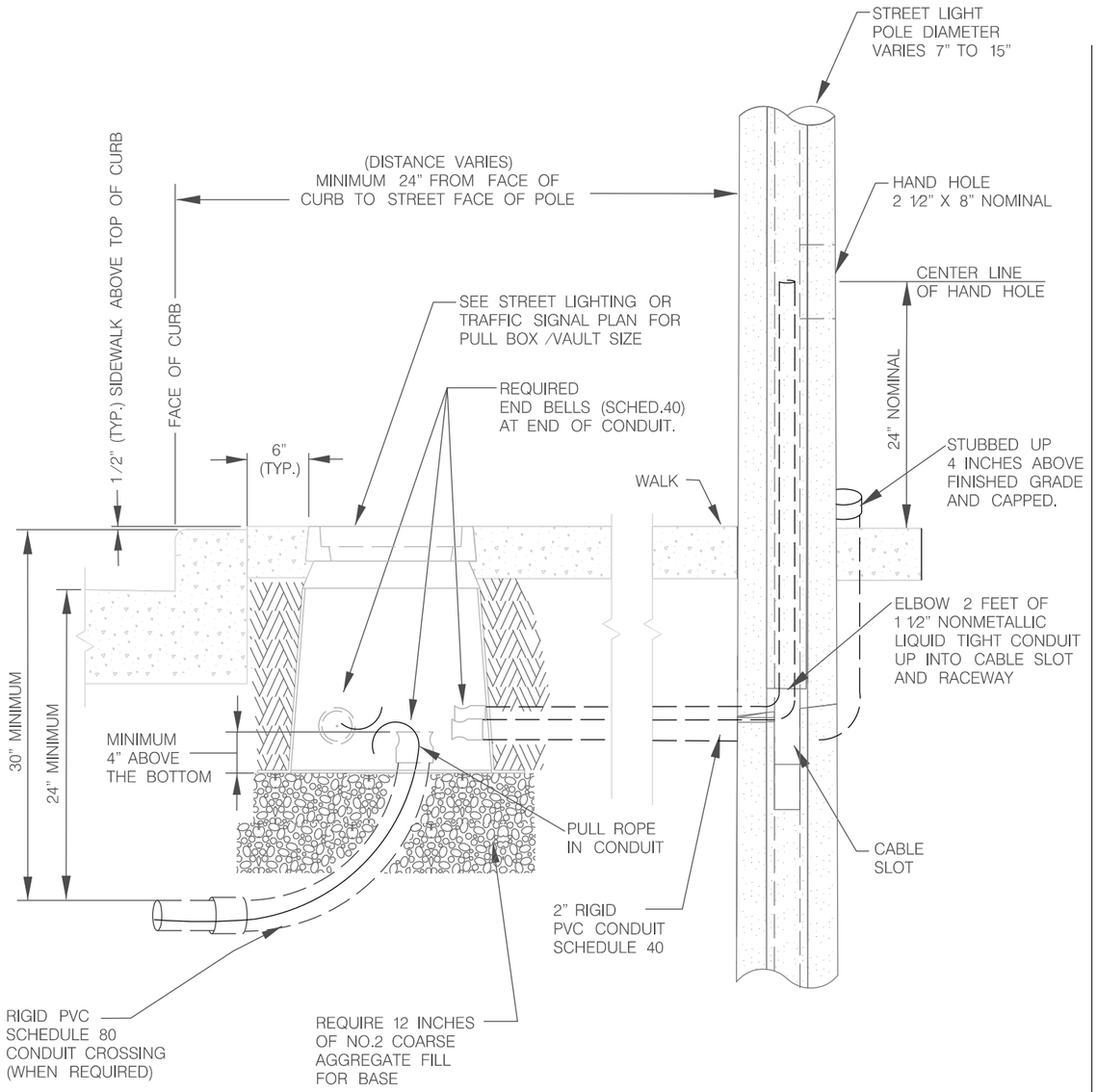
TYPICAL CONDUIT INSTALLATION
FROM PULL BOX TO HARP POLES

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

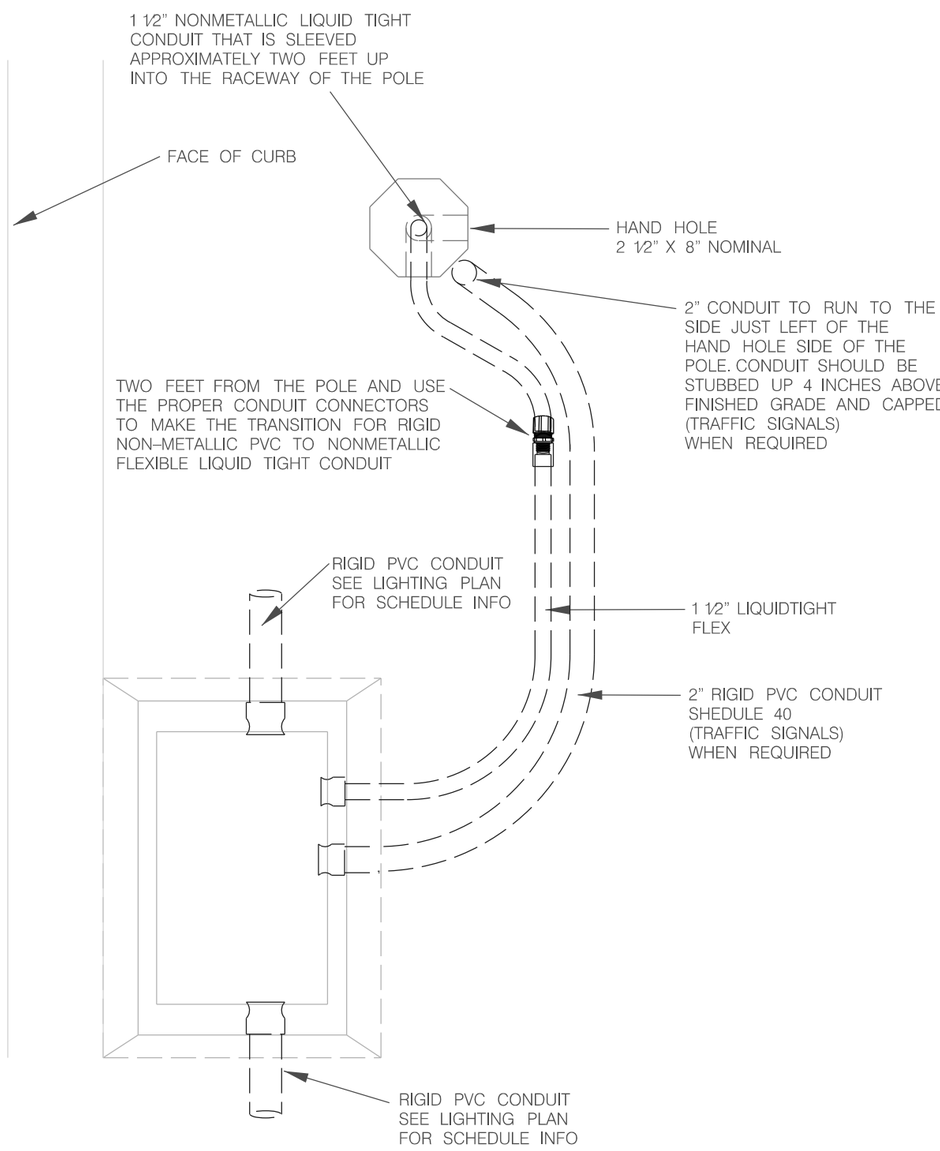
SHEET 6 OF 10

2



SECTION VIEW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

108A

DETAIL VERSION

TYPICAL CONDUIT INSTALLATION FROM PULL BOX / VAULT TO POLE

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

SHEET 7 OF 10

PROJECT NO: 2984-00-74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 130	E

POLE TOP: 5 3/8" FL/FL

CAST ALUM. 4 FIN CAP

(2) 3/8"-16 UNC STAR INSERTS x 1" DEEP (SEE POLE TOP DETAIL)

[B-D] 1 1/2" x 3" THROUGH WIRING APERTURE

SMOOTH AND CLEAR TO RACEWAY

15'

(2) 3/8" INSERTS ON A 3 5/8" DIA. BOLT CIRCLE

POLE TOP DETAIL

MIN 1 1/2" ø RACEWAY FROM POLE TOP TO H.H.BOX - MUST BE STRAIGHT & BLOWN CLEAN

COLOR & FINISH:
S35 ASH WHITE
WHITE-0-00-LS

COATINGS REQUIRED:
-1 COAT ANTI-GRAFFITI ACRYLIC FULL LENGTH

MIN 28 DAY COMP STRENGTH 8,000 psi
POLE WARRANTY - LIFETIME

LOADING:	10 SQ FT AT 90 MPH + 30% GUST
DESIGN SPEC:	AASHTO LTS 5-2007
WORKING LOAD:	400 LBS
ULT GRND LINE. MOMENT:	21,600 FT-LBS
SECTION:	OCTAGONAL
COLOR:	ASH WHITE
FINISH:	POLISHED
POLE LENGTH:	31' 0"
POLE TOP:	5 3/8" FL/FL
POLE BUTT:	9 1/4" FL/FL
POLE TAPER:	1/8"/FT
APPROX. WGT.:	1,316 lbs
RACEWAY:	1 1/2" TO POLE TOP
RACEWAY:	MIN 3" HH TO APER
QUANTITY:	1

NOTES:
1) RACEWAY TO BE CLEAR OF SHARP EDGES & DEBRIS
2) MIN. 1 1/2 " RACEWAY FROM POLE TOP TO H.H.BOX
3) MIN. 3" RACEWAY FROM B/G APERTURES TO H.H.BOX

31' 0"

[B] 3 1/2" x 10 1/2" RECESSED ZINC H.H.BOX & COVERPLATE C/W #18-8 ST. STL. BUTTON HEAD TORX T27H TAMPERPROOF SCREWS & GROUND WIRE

[A] SMALL NAMEPLATE (C/W 1/8" STAMPED LETTERS & MFG DATE)

MIN 3" ID CONDUIT RACEWAY FROM B/G APERTURES TO H.H.BOX

6"

2' 0" (REF.)

30 1/2"

12 1/2" (REF.)

GRADE

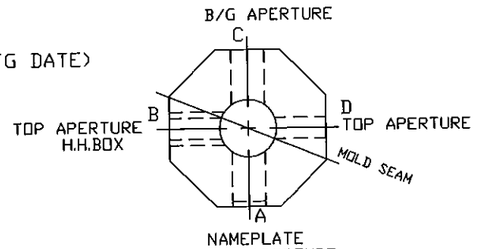
[A-C] 2 1/2" x 9" WIRING APERTURE BOTH SIDES

5' 0" (REF)

3' 11 1/2"

QC TO LABEL "TYPE A-26"

B/G APERTURE



NAMEPLATE B/G APERTURE

TOP VIEW

POLE TOP: 9" DIA.

1/2" THK X 6 1/2" FAB. ALUM. PLATE (SEE PLATE DETAIL)

1 1/2" IPS (1.9" O.D.) (SEE TENON DETAIL)

NOTE: TOP OF POLE MUST BE STRAIGHT AND PARALLEL WITH GROUND

(4) 3/8" RICHMOND 'LONG' INSERTS ON A 4 7/8" ø B.C.

15' 0"

1 1/2" NPS (NATIONAL PIPE STRAIGHT (1.9" O.D.) ALUM. TENON C/W 1 1/2"L STRAIGHT PIPE THREADS

1 1/2" STD GALV HEX NUT TO FIT 1 1/2" NOM THREADS

7 1/2"

1/2"

NOTE: 3/8" ST. STL FLAT HEAD BOLTS TO MOUNT PLATE TO POLE

(4) 3/8" RICHMOND INSERTS

12"

(4) 3/8" ø THREADED RODS x 12"

BOLT ON TENON DETAIL

SIDE VIEW

1/2"

(4) 7/16" ø COUNTERSUNK HOLES ON A 4 7/8" ø BOLT CIRCLE

6 1/2" ø

2" ø HOLE

TOP VIEW

PLATE DETAIL
1/2" THK. ALUM. PLATE

MIN 1 1/2" ø RACEWAY FROM POLE TOP TO H.H.BOX - MUST BE STRAIGHT & BLOWN CLEAN

MIN 28 DAY COMP STRENGTH 8,000 psi
POLE WARRANTY - LIFETIME

COLOR & FINISH:
ETCHED FINISH
COLOR: E35 ASH WHITE

ANTI-GRAFFITI GLOSS FULL LENGTH

[A] 2 5/8" x 8" ZINC RECESSED H.H.BOX & COVERPLATE C/W GROUND WIRE & 18-8 ST.STL. BUTTONHEAD TORX T27H TAMPERPROOF SCREWS

3" ID CONDUIT CAST IN FROM TOP OF APERTURES TO BTM OF HH BOX

21"

[A] SMALL NAMEPLATE (C/W 1/8" STAMPED LETTERS & MFG DATE)

20" DIA

13 1/2"

[B-D] (2) - 2 1/2" X 9" **special** WIRING APERTURES @ 180° APART.

4' 0"

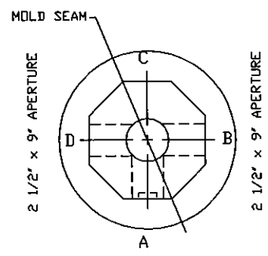
TYPE H-17

LABEL POLE BUTT 'TYPE H-17'

10"

LOADING:	5 SQ FT AT 90 MPH + 30% GUST
DESIGN SPEC:	AASHTO LTS 5-2007
WORKING LOAD:	400 LBS
ULT GRND LINE. MOMENT:	7,800 FT-LBS
SECTION:	OCTAGONAL
COLOR:	ASH WHITE
FINISH:	ETCHED
POLE LENGTH:	19' 0"
POLE TOP:	9" DIA
POLE BUTT:	10" DIA
SHAFT TAPER:	APPROX 3/16"/FT
APPROX. WGT.:	1,150 lbs
RACEWAY:	1 1/2" TO POLE TOP
RACEWAY:	MIN 3" HH TO APER
QUANTITY:	-

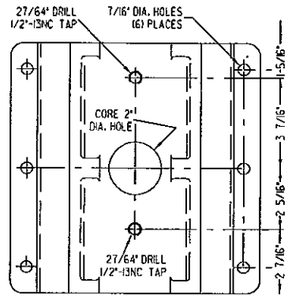
NOTES:
1) RACEWAY TO BE CLEAR OF SHARP EDGES & DEBRIS
2) MIN. 1 1/2 " RACEWAY FROM POLE TOP TO H.H.BOX
3) MIN. 3" RACEWAY FROM B/G APERTURES TO H.H.BOX
4) POLE TOP TO BE FLUSH
5) POLES TO BE INDIVIDUALLY BLOCKED & WRAPPED @ RESTING POINTS

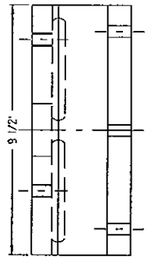


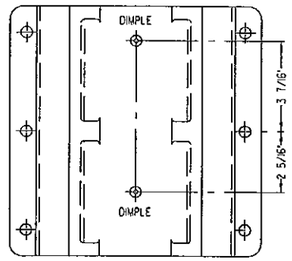
H.H. BOX & NAMEPLATE TYPICAL CROSS-SECTION

SHEET 8 OF 10

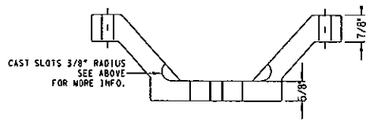
PROJECT NO: 2984-00-74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET E







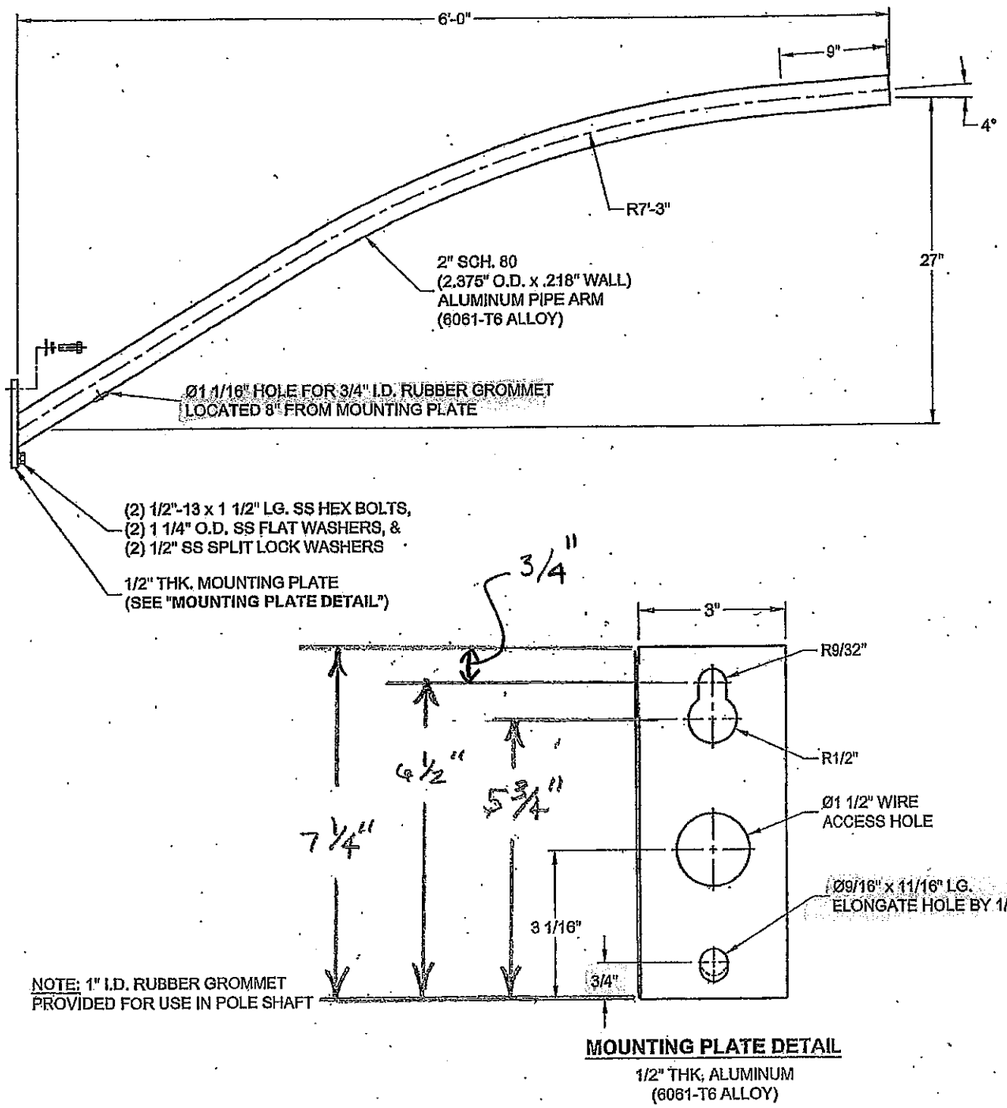
THIS BRACKET'S DIMENSIONS ARE THE SAME AS THE ONE TO LEFT BUT WITHOUT 2" CORE HOLE AND THE TWO TAP HOLES



NOTE:
BRACKET SHALL BE CAST FROM ASTM #319 OR 356 T6 ALUMINUM ALLOY

DETAIL VERSION

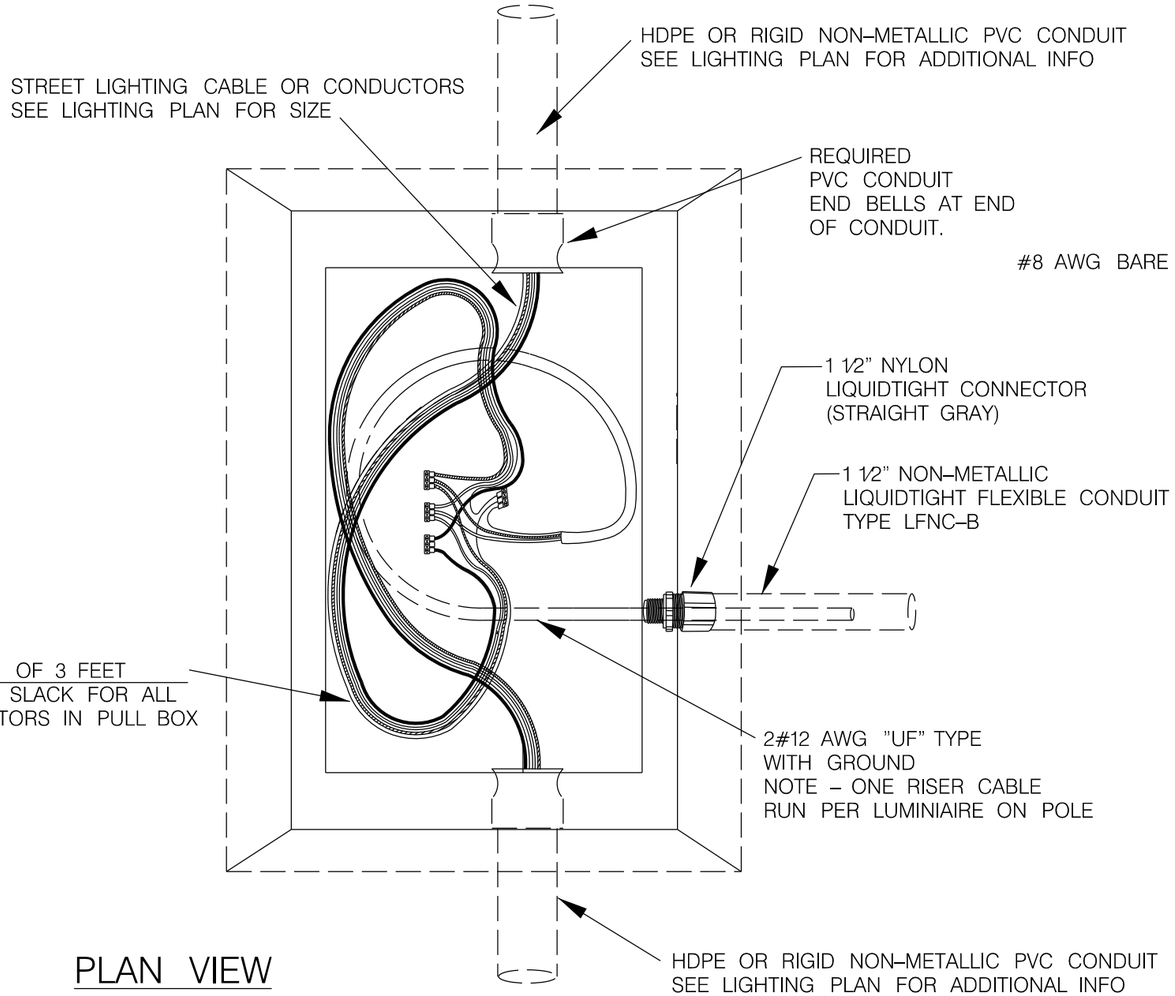
SINGLE
BRACKET CLAMPS



DETAIL VERSION

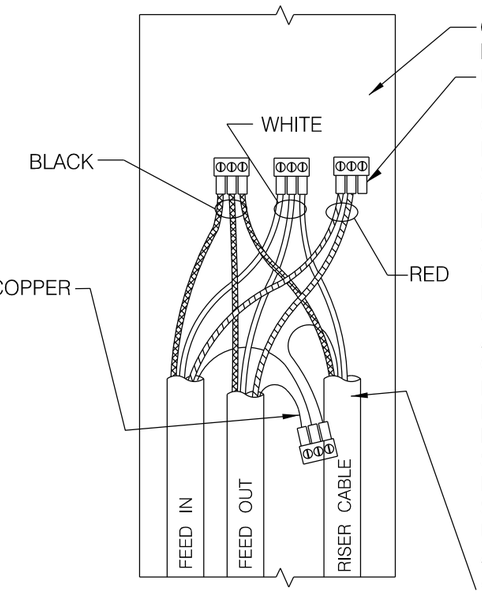
6' SINGLE MEMBER ARM

PROJECT NO: 2984-00-74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET	E



PLAN VIEW

NOT TO SCALE



DETAIL "A"

CONNECTIONS WITHIN PULL BOX

NOT TO SCALE

CIRCUIT SHOULD BE IDENTIFIED INSIDE PULL BOX

USE:
POLARIS EDGE CONNECTOR (ISPB2)
OR
MORRIS PRODUCTS SUBMERSIBLE INSULATED STREETLIGHTING CONNECTOR,
OR
EQUAL
3, 4, OR 6 PORT PRE–INSULATED CONNECTOR OR EQUAL.
DESIGNED FOR USE IN BELOW GRADE BOXES, DIRECT BURIAL AND SUBMERSIBLE
CONDUCTORS RANGE FROM #2⁄0–#14
RATED FOR 600 VOLTS
DUAL RATED FOR CU. OR AL.
INSULATED WITH HIGH DIELECTRIC STRENGTH ABRASION AND CHEMICAL RESISTANT RUBBER
SET SCREWS OR APPROVED EQUAL
UL 486D LISTED FOR DIRECT BURIAL AND SUBMERSIBLE APPLICATIONS

"RISER CABLE"
2#12 AWG TYPE "UF" WITH GROUND
CABLE WITHOUT SPLICES TO HAND HOLE ON POLE (PER LUMINAIRE)

NOTES:

PULL ROPE /TAPE SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS–BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.

PROVIDE MINIMUM WIRE SLACK FOR PULL BOXES: 3–FT ONE WAY IN OR OUT

PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINETS, PULL BOXES AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO ASSOCIATED CONDUIT PAY ITEM.

IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES /VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP MANAGERS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK. THESE NAMES AND NUMBERS CAN BE FOUND ON THE STREET LIGHTING GENERAL NOTES SHEET, ITEM#23.

142A

DETAIL

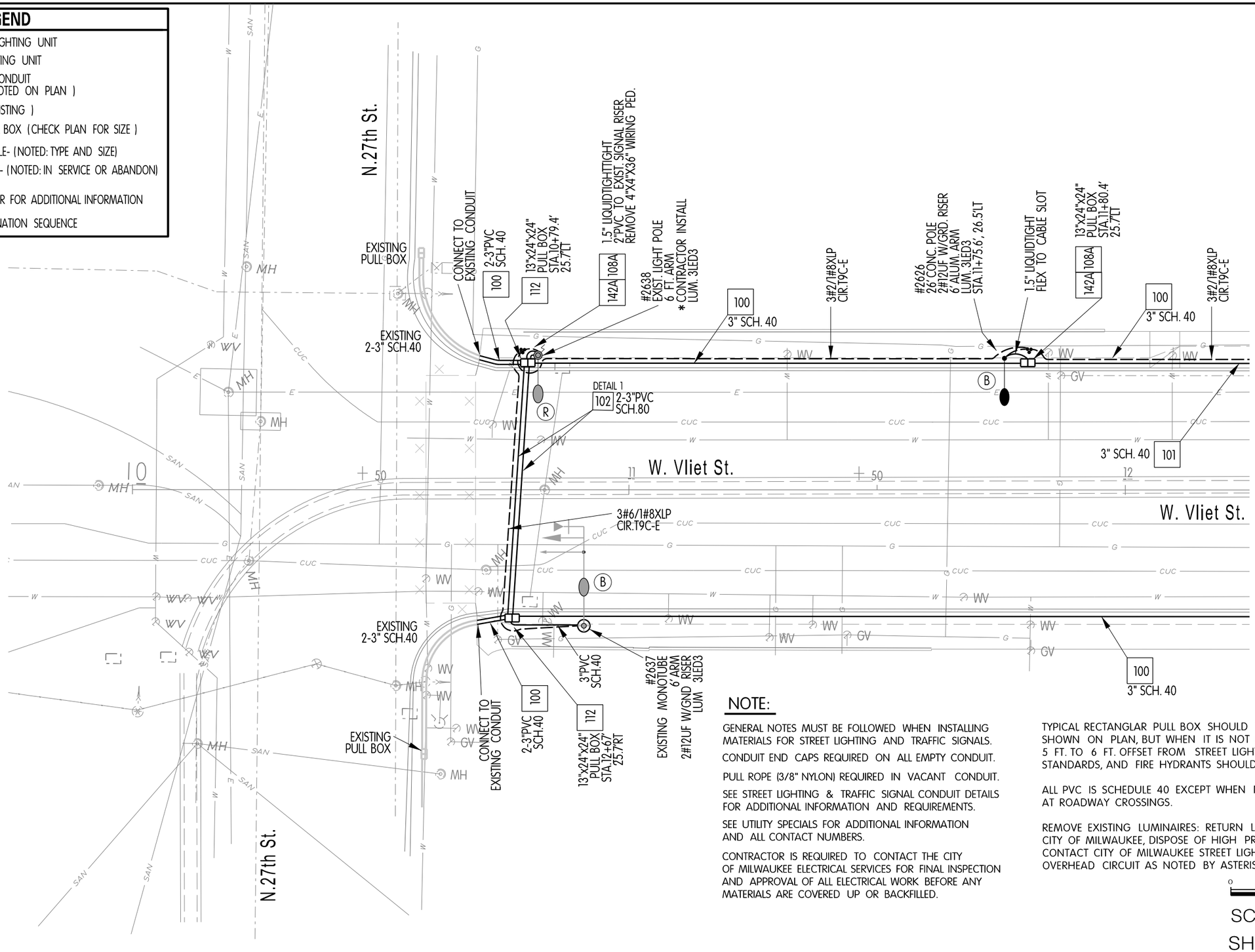
TYPICAL WATERTIGHT MULTI–PORT CONNECTIONS

SPLICING CONDUCTORS WITHIN THE PULL BOX

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20

SCALE, FEET

SHEET 1 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 134	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn PLOT DATE : 22–JUN–2022 14:33 PLOT BY : lhickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
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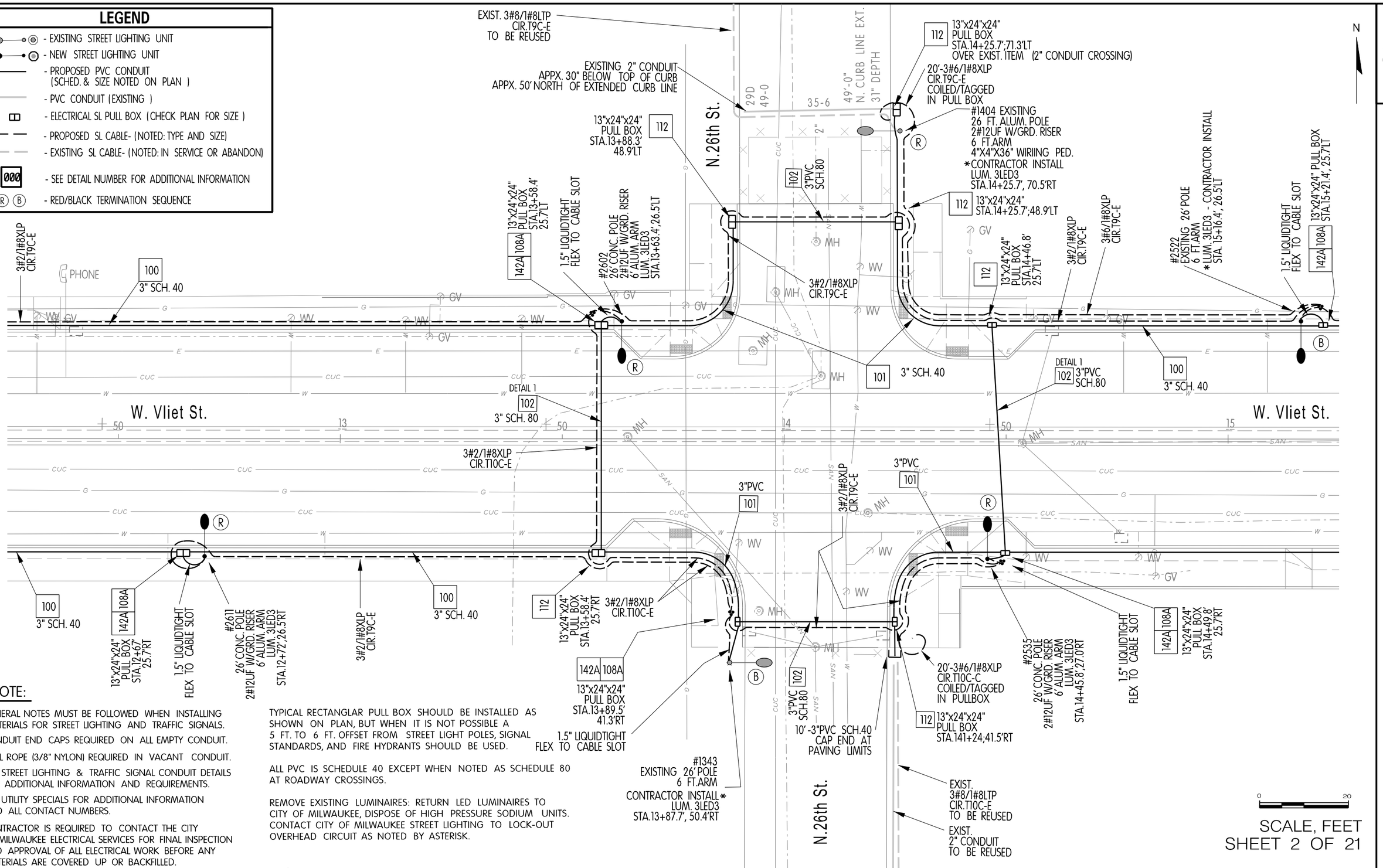
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



SHEET 2 OF 21

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

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PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 135	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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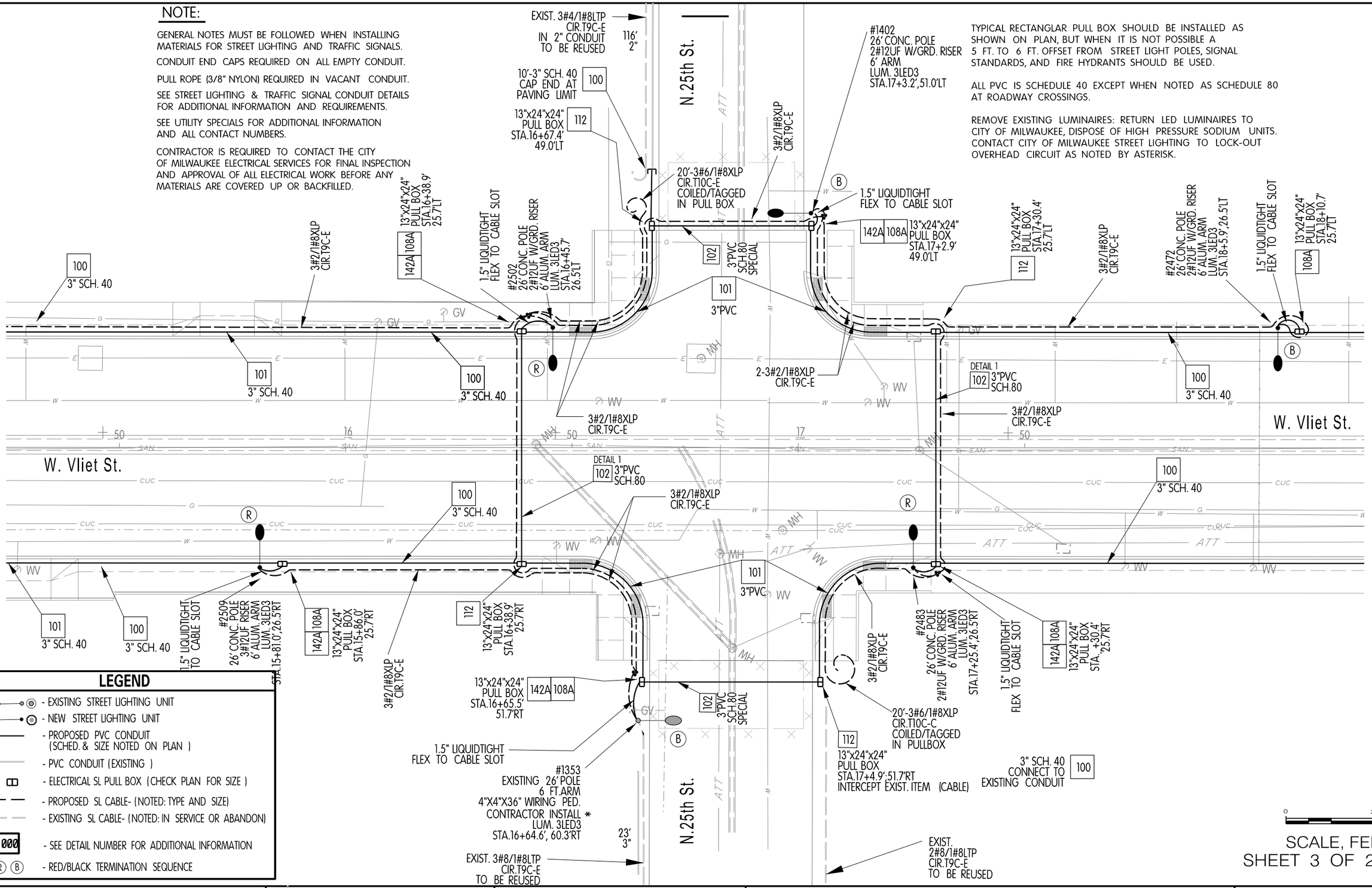

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 3 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 136	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

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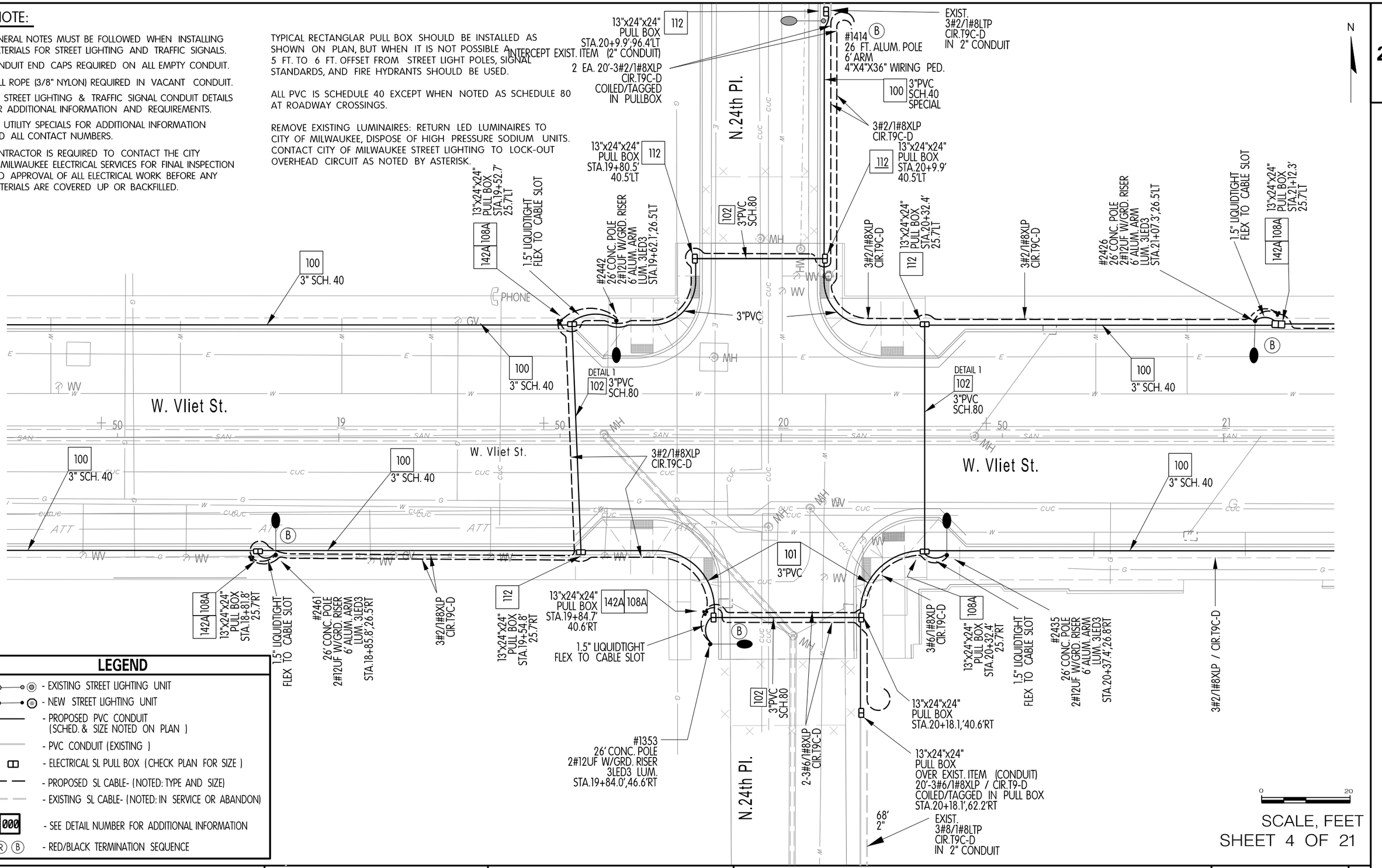

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
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- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 4 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 137	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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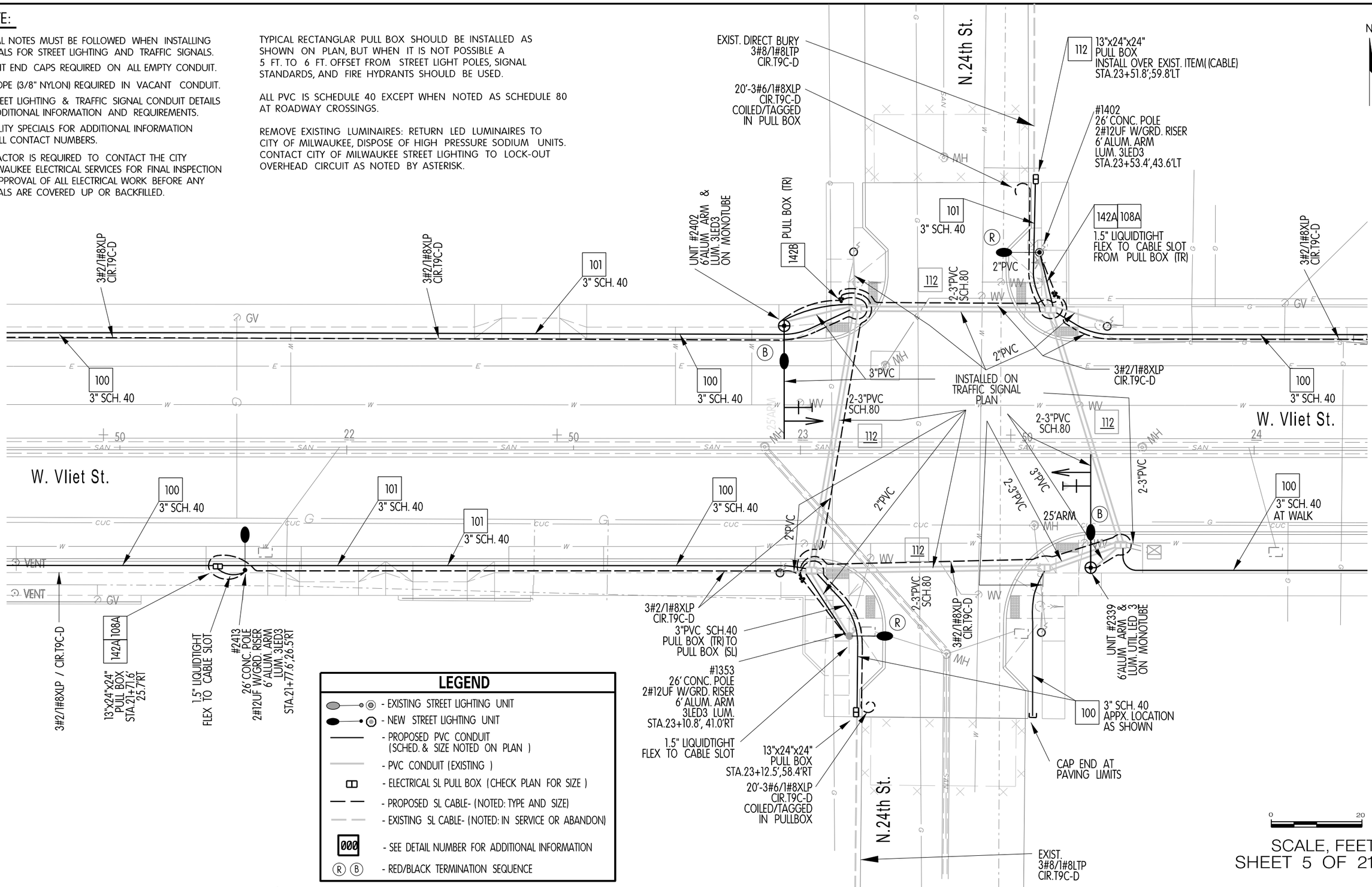

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 5 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 138	E

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
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- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

N

#2320 EXISTING 26' POLE 6 FT.ARM * CONTRACTOR INSTALL LUM. 3LED3 STA.24+56.3, 26.2'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

142A 108A 13"x24"x24" PULL BOX STA.24+61.3' 25.7'LT

3#2/1#8XLP CIR.T9C-D

100 3" SCH. 40 AT WALK

3#2/1#8XLP CIR.T9C-D

#2302 EXISTING 26' POLE 6 FT.ARM * CONTRACTOR INSTALL LUM. 3LED3 STA.26+50.1', 26.0'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

142A 108A 13"x24"x24" PULL BOX STA.26+55.1';25.7'LT

3#2/1#8XLP CIR.T9C-D

101 3"PVC

3#2/1#8XLP CIR.T9C-D

DETAIL 1 102 3"PVC SCH.80

W. Vliet St.

100 3" SCH. 40 AT WALK

100 3" SCH. 40 AT WALK

100 3" SCH. 40 AT WALK

#2313 EXISTING 26'POLE 6 FT.ARM CONTRACTOR INSTALL * LUM. 3LED3 STA.25+45.2', 25.8'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

13"x24"x24" PULL BOX STA.25+50.2' 25.7'RT 108A

3#2/1#8XLP CIR.T9C-D

112 13"x24"x24" PULL BOX STA.26+55.2' 25.9'RT

3#2/1#8XLP CIR.T9C-D

#2239 EXISTING 26'POLE 6 FT.ARM CONTRACTOR INSTALL LUM. 3LED3 STA.27+11.2', 25.7'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

142A 108A 13"x24"x24" PULL BOX STA.27+16.2' 25.7'RT

N. 23RD ST.

0 20

SCALE, FEET

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

SHEET 6 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 139	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn PLOT DATE : 22–JUN–2022 14:45 PLOT BY : lhickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

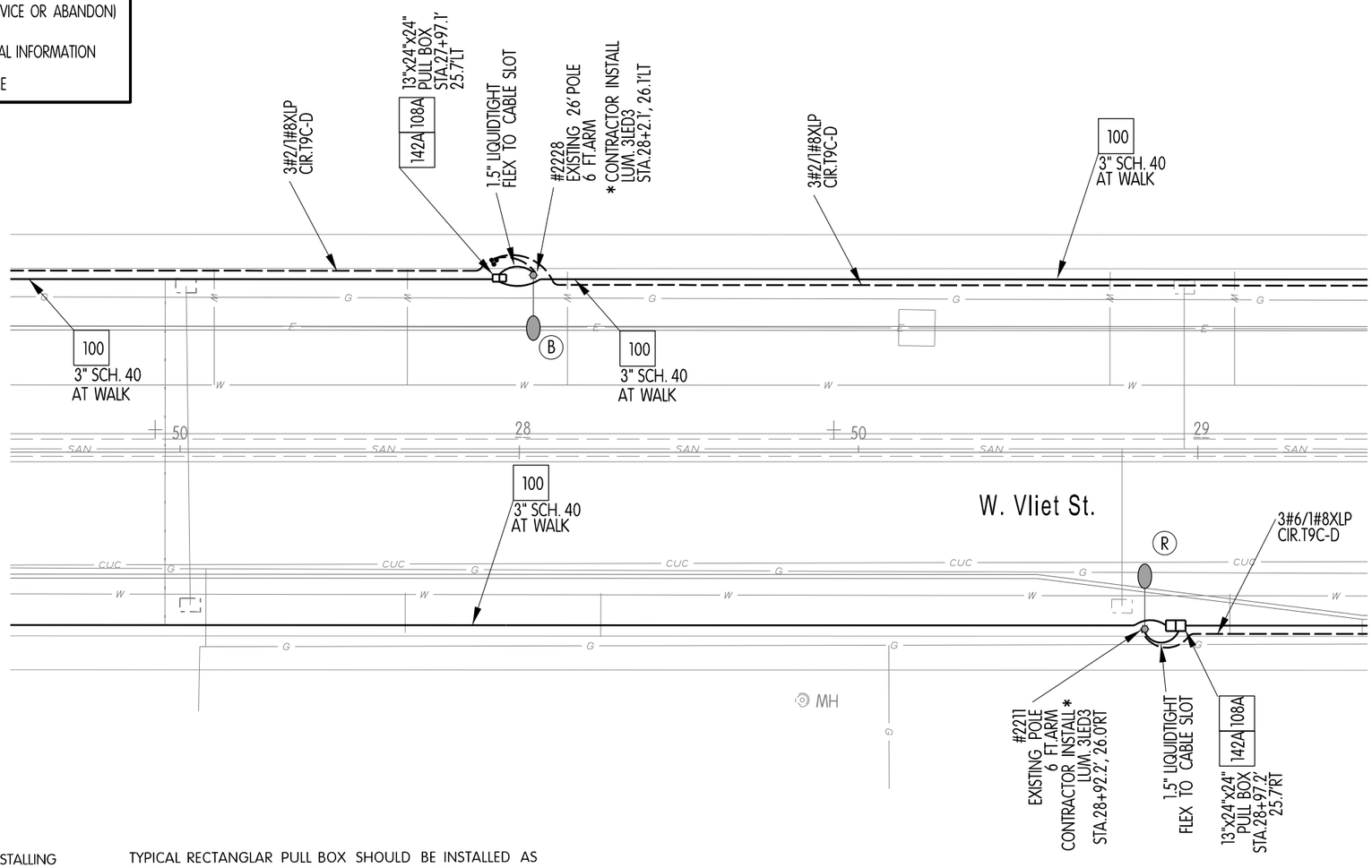
2

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

N

2



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0 20

SCALE, FEET

SHEET 7 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 140	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

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N.22nd St.

W. Vliet St.

EXIST. 2#8/1#8LTP CIR.T9C-F TO REMAIN

#1404 26 FT. ALUM. EXIST. TO REMAIN *CONTRACTOR INSTALL LUM. 3LED3 STA.30+33.0', 62.0'RT

CAP END 3' NORTH OF POLE

13"x24"x24" PULL BOX STA.29+97.6' 47.0'LT 112

3#2/1#8XLP CIR.T9C-D

DETAIL 1 102 3"PVC SCH.80

100 3" SCH. 40

13"x24"x24" PULL BOX STA.30+33.0';47.1'LT 112

100 3" SCH. 40 AT WALK

3#2/1#8XLP CIR.T9C-D

142A 108A 13"x24"x24" PULL BOX STA.29+67.7' 25.7'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#2202 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.29+74.2', 26.2'LT

101 3"PVC

13"x24"x24" PULL BOX STA.30+54.9' 25.7'LT 112

3#2/1#8XLP CIR.T9C-D

100 3" SCH. 40

#2126 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.31+38.9', 25.9'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

108A 13"x24"x24" PULL BOX STA.31+43.9' 25.7'LT

DETAIL 1 102 3"PVC SCH.80

3#2/1#8XLP CIR.T9C-D

DETAIL 1 102 3"PVC SCH.80

3#6/1#8XLP CIR.T9C-D

3#2/1#8XLP CIR.T9C-D

3#8/1#8XLP CIR.T9C-D IN PVC TO UNIT #2137

100 3" SCH. 40

100 3" SCH. 40 AT WALK

112 13"x24"x24" PULL BOX STA.29+97.7';45.3'RT

142A 108A

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

3#2/1#8XLP CIR.T9C-D

100 3"PVC AT WALK

142A 108A 13"x24"x24" PULL BOX STA.30+50.9' 25.7'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#2137 25' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.30+54.9', 26.2'RT

#1337 EXISTING 26' POLE 2#12UF W/GRD. RISER 6 FT. ARM * CONTRACTOR INSTALL LUM. 3LED3 STA.29+96.4', 50.0'RT

30'-3#6/1#8XLP CIR.T9C-D COILED/TAGGED IN PULL BOX

112 13"x24"x24" PULL BOX STA.30+37.2' 48.7'RT

3#8/1#8LTP CIR.T9C-D AT WALK TO BE DISCONTINUED

20'-3" PVC SPECIAL AT WALK CAP END AT PAV. LIMIT

3#8/1#8LTP CIR.T9C-D AT WALK TO REMAIN IN SERVICE

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

0 20

SCALE, FEET

SHEET 8 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 141	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn PLOT DATE : 22–JUN–2022 14:52 PLOT BY : lhickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

N

N.21st St.

W. Vliet St.

3#6/1#8LTP CIR.T9C-C TO BE DISCONTINUED

20'-3" PVC SPECIAL CAP END AT PAV. LIMIT

13"x24"x24" PULL BOX 142A 108A STA.33+31.4';45.8'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#1401 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.33+30.5' 40.8'LT

DETAIL 1 102 3"PVC SCH.80

3#2/1#8XLP CIR.T10C-E

112 13"x24"x24" PULL BOX STA.33+66.8' 45.8'LT

13"x24"x24" PULL BOX STA.33+93.8' 25.7'LT

3#2/1#8XLP CIR.T10C-E

13"x24"x24" PULL BOX 142A 108A STA.34+67.9' 25.7'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#2028 EXISTING 26' POLE 6 FT.ARM *CONTRACTOR INSTALL LUM. 3LED3 STA.34+72.9', 26.0'LT

#2104 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.33+6.9', 26.5'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

13"x24"x24" PULL BOX 108A STA.33+15.4' 25.7'LT

100 3" SCH. 40 AT WALK

101 3"PVC

3#2/1#8XLP CIR.T10C-E

100 3" SCH. 40 AT WALK

DETAIL 1 102 3"PVC SCH.80

DETAIL 1 102 3"PVC SCH.80

100 3" SCH. 40 AT WALK

13"x24"x24" PULL BOX 108A STA.32+17.9', 25.7'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#2111 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.32+22.9', 26.2'RT

3#2/1#8XLP CIR.T10C-E

112 13"x24"x24" PULL BOX STA.33+15.4' 25.7'RT

142A 108A 13"x24"x24" PULL BOX STA.33+32.1' 45.5'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#1361 EXISTING 26' POLE 6 FT.ARM CONTRACTOR INSTALL* 3LED3 LUMIN. STA.33+32.1', 48.8'RT

101 3"PVC

102 3"PVC SCH.80

3#2/1#8XLP CIR.T10C-E

30'-3#6/1#8XLP CIR.T10C-E COILED/TAGGED IN PULLBOX

112 13"x24"x24" PULL BOX STA.33+67.5' 49.7'RT

100 20'-3" SCH. 40 SPECIAL

CAP END AT PAVING LIMITS

EXISTING 3#8/1#8LTP CIR.T9C-E

#2037 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.33+88.8' 26.2'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

13"x24"x24" PULL BOX 142A 108A STA.33+93.8' 25.7'RT

3#2/1#8XLP CIR.T10C-E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20

SCALE, FEET

SHEET 9 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 142	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn PLOT DATE : 22–JUN–2022 14:53 PLOT BY : lnickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

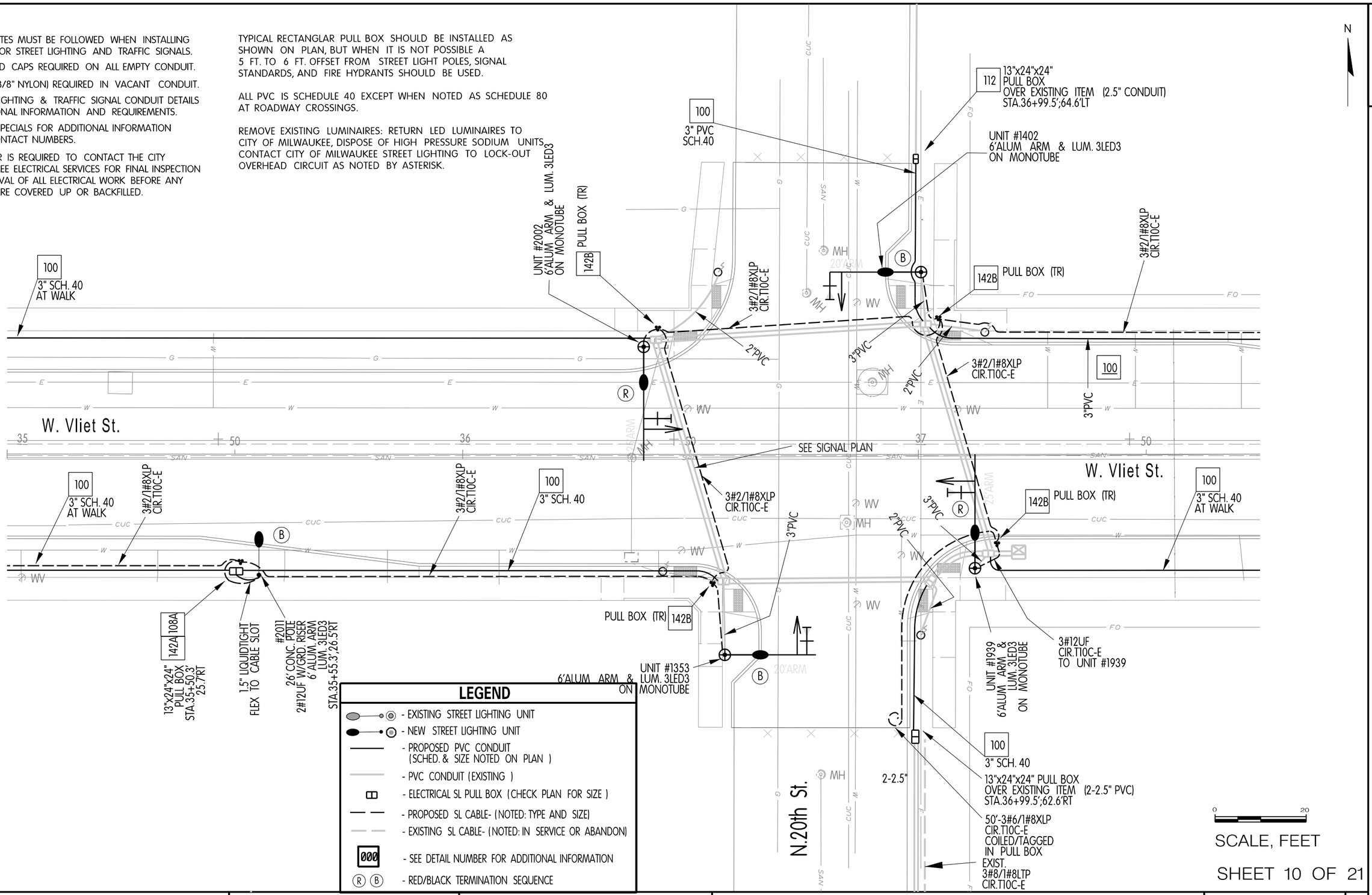
SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.



LEGEND

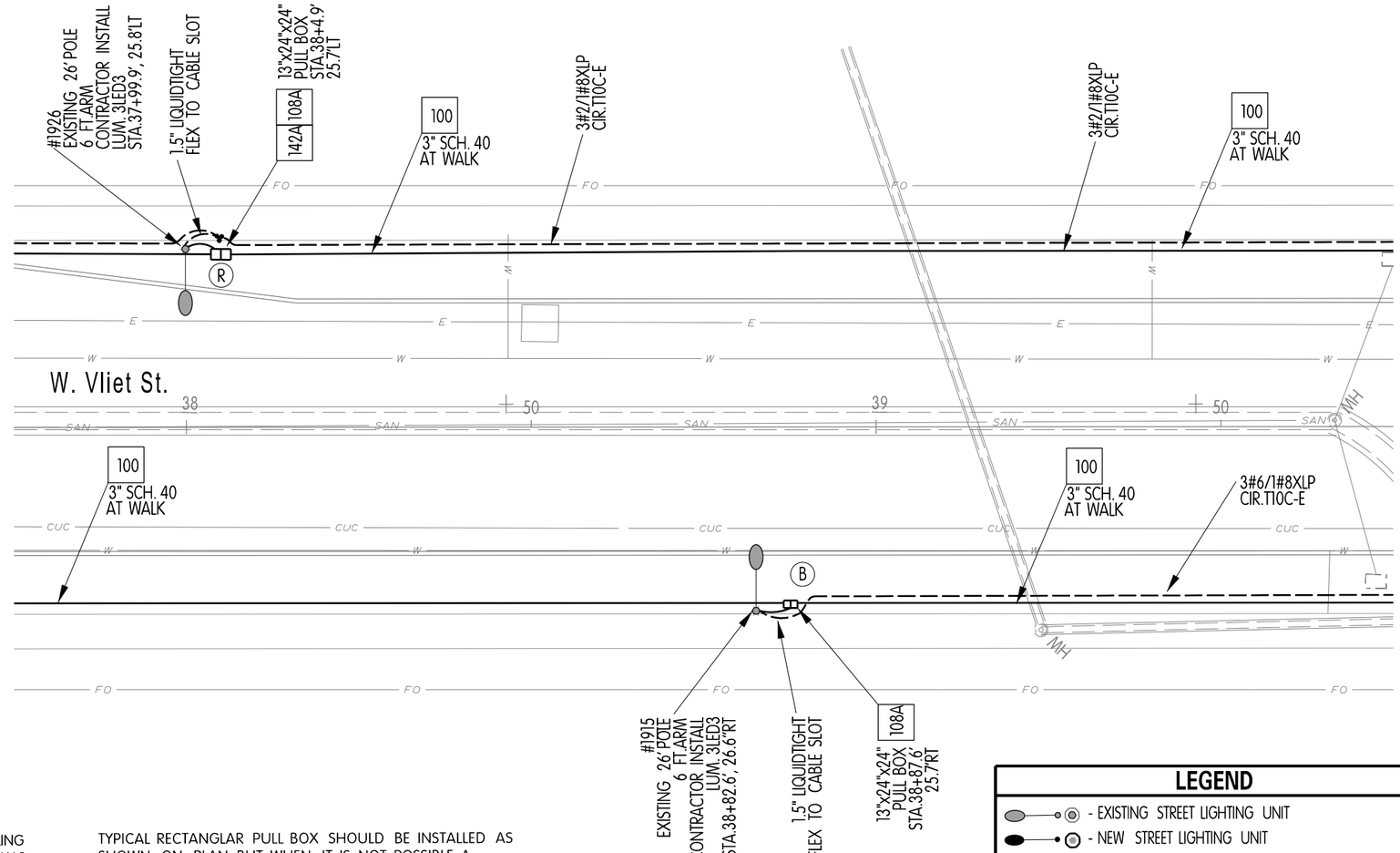
- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 10 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 143	E

2

N



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

0 20

SCALE, FEET

SHEET 11 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 144	E

2

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

N

#1906 EXISTING 26' POLE 6 FT ARM
CONTRACTOR INSTALL LUM. 3LED3 STA.39+79.4' 26.4'LT
1.5" LIQUIDTIGHT FLEX TO CABLE SLOT
142A 108A 13"X24"X24" PULL BOX STA.39+84.4' 25.7'LT
100 3" SCH. 40 AT WALK
112 13"X24"X24" PULL BOX STA.40+39.3' 25.7'LT
3#2/1#8XLP CIR.T10C-E
100 3" SCH. 40 AT WALK
#1822 EXISTING 26' POLE 6 FT ARM
CONTRACTOR INSTALL LUM. 3LED3 * STA.41+29.2', 25.8'LT
1.5" LIQUIDTIGHT FLEX TO CABLE SLOT
142A 108A 13"X24"X24" PULL BOX STA.41+34.2' 25.7'LT
100 3" SCH. 40 AT WALK
3#2/1#8XLP CIR.T10C-E
100 3" SCH. 40 AT WALK

PHONE
MH
W. Vliet St.
40 50 41 50 42 5
3#6/1#8XLP CIR.T10C-E
DETAIL 1
102 3"PVC SCH.80
W. VLIET ST.
100 3" SCH. 40 AT WALK
100 3" SCH. 40 AT WALK
100 3" SCH. 40 AT WALK
CUC
WV
MH
FO
E
W

142A 108A 13"X24"X24" PULL BOX STA.40+39.3' 25.7'RT
1.5" LIQUIDTIGHT FLEX TO CABLE SLOT
#1833 EXISTING 26' POLE 6 FT.ARM
CONTRACTOR INSTALL * LUM. 3LED3 STA.40+43.3', 26.9'RT
108A 13"X24"X24" PULL BOX STA.42+11.7' 25.7'RT
1.5" LIQUIDTIGHT FLEX TO CABLE SLOT
#1811 EXISTING 26' POLE 6 FT.ARM
CONTRACTOR INSTALL LUM. 3LED3 STA.42+16.7', 26.5'RT
3#6/1#8XLP CIR.T10C-E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20
SCALE, FEET

SHEET 12 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 145	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn
PLOT DATE : 22–JUN–2022 15:10
PLOT BY : lhickm
PLOT NAME : _____
PLOT SCALE : 1:20
WISDOT SHEET

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

N

#1403 26 FT. CONCRETE 150W HPS EXISTING OVERHEAD ALL TO REMAIN CONTRACTOR INSTALL * LUM. 3LED3 STA.33+32.1', 48.8'RT

100 3"PVC SCH.40 SPECIAL

112 13"x24"x24" PULL BOX STA.43+39.8' 111.4'LT

EXISTING 3#8/1#8LTP CIR.T10C-E TO BE REUSED

20'-3#6/1#8XLP CIR.T10C-E COILED/TAGGED IN PULLBOX

N.18th St.

20'-3#6/1#8XLP CIR.T10C-E COILED/TAGGED IN PULLBOX

112 13"x24"x24" PULL BOX STA.43+20.8';49.9'LT

DETAIL 1 102 3"PVC SCH.80

3#2/1#8XLP CIR.T10C-E

10' - 3" PVC SPECIAL CAP END STA.43+59.4' 53.0'LT

112 13"x24"x24" PULL BOX STA.43+57.7' 47.3'LT

100 3" SCH. 40 AT WALK

142A 108A 13"x24"x24" PULL BOX STA.42+94.7' 25.7'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#1802 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.42+99.7', 26.5'LT

3#6/1#8XLP CIR.T10C-E

3#2/1#8XLP CIR.T10C-E

112 13"x24"x24" PULL BOX STA.43+81.4' 25.7'LT

3#6/1#8XLP CIR.T10C-E

3#2/1#8XLP CIR.T10C-E

108A 123 13"x24"x24" PULL BOX STA.44+50.4' 25.7'LT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#1730 EXISTING 26' POLE 6 FT.ARM * CONTRACTOR INSTALL LUM. 3LED3 STA.44+55.4', 26.0'LT

3#2/1#8XLP CIR.T10C-E

100 3" SCH. 40 AT WALK

101 3"PVC SCH.40

DETAIL 1 102 3"PVC SCH.80

W. Vliet St.

100 3" SCH. 40 AT WALK

DETAIL 1 102 3"PVC SCH.80

100 3" SCH. 40 AT WALK

3"PVC SCH.40 101

3#2/1#8XLP CIR.T10C-E

100 3" SCH. 40 AT WALK

W. Vliet St.

3#6/1#8XLP CIR.T10C-E

112 13"x24"x24" PULL BOX STA. 42+89.7' 25.7'RT

112 13"x24"x24" PULL BOX STA.43+19.7',50.0'RT

3#6/1#8XLP CIR.T10C-E

DETAIL 1 102 3"PVC SCH.80

20' EA.-3#6/1#8XLP CIR.T10C-E COILED, TAGGED IN PULLBOX

#1355 EXISTING 26'ALUM. POLE 6 FT.ARM * CONTRACTOR INSTALL- LUM. 3LED3 STA.43+19.5', 54.7'RT

N.18th St.

142A 108A 13"x24"x24" PULL BOX STA.43+75.4' 25.7'RT

1.5" LIQUIDTIGHT FLEX TO CABLE SLOT

#1735 26' CONC. POLE 2#12UF W/GRD. RISER 6' ALUM. ARM LUM. 3LED3 STA.43+80.4',26.5'RT

112 13"x24"x24" PULL BOX STA.43+56.8',50.0'RT

0 20

SCALE, FEET

SHEET 13 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 146	E

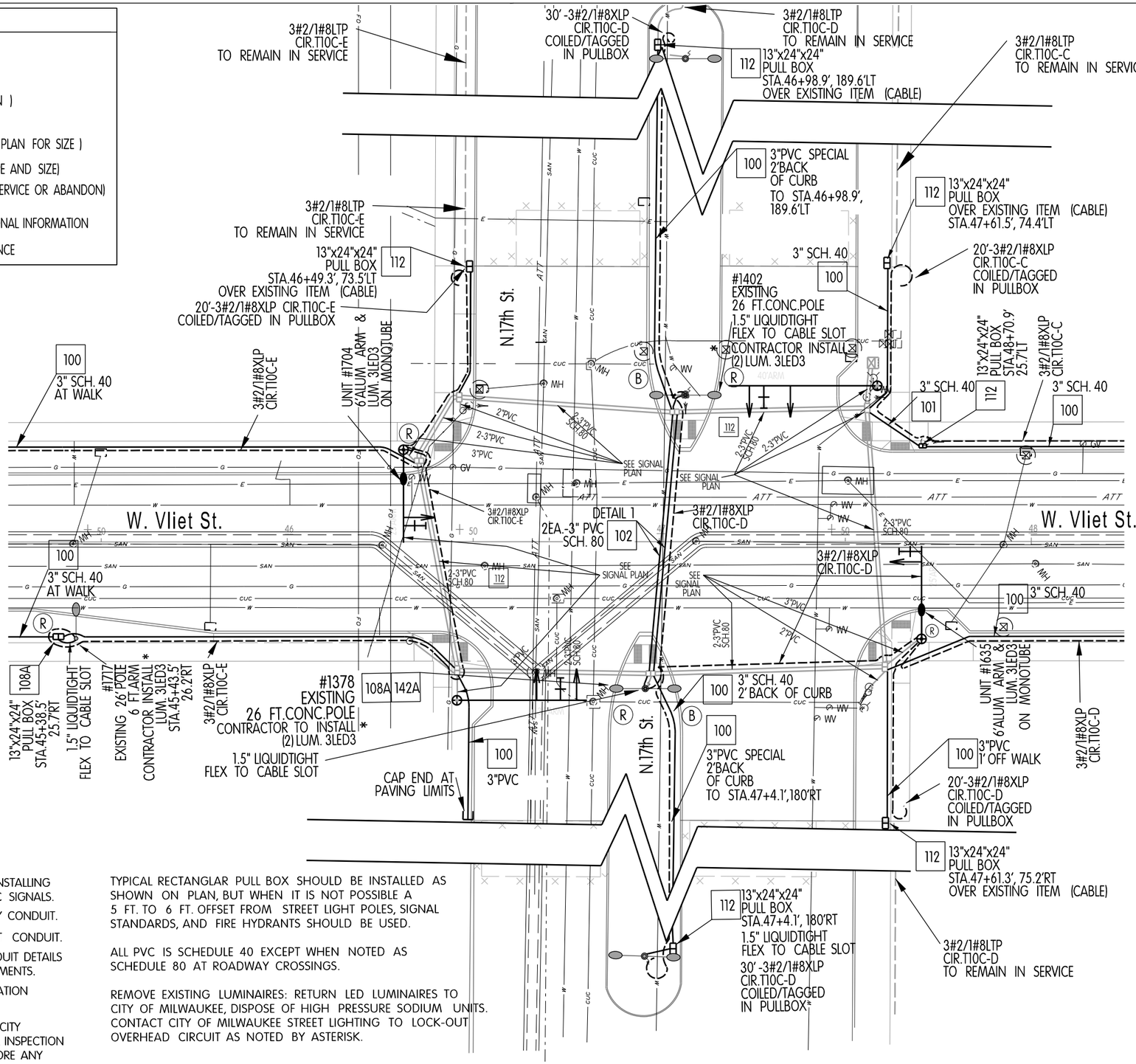
FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn

PLOT DATE : 22–JUN–2022 15:11 PLOT BY : lnickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR PULL BOX SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

SHEET 14 OF 21

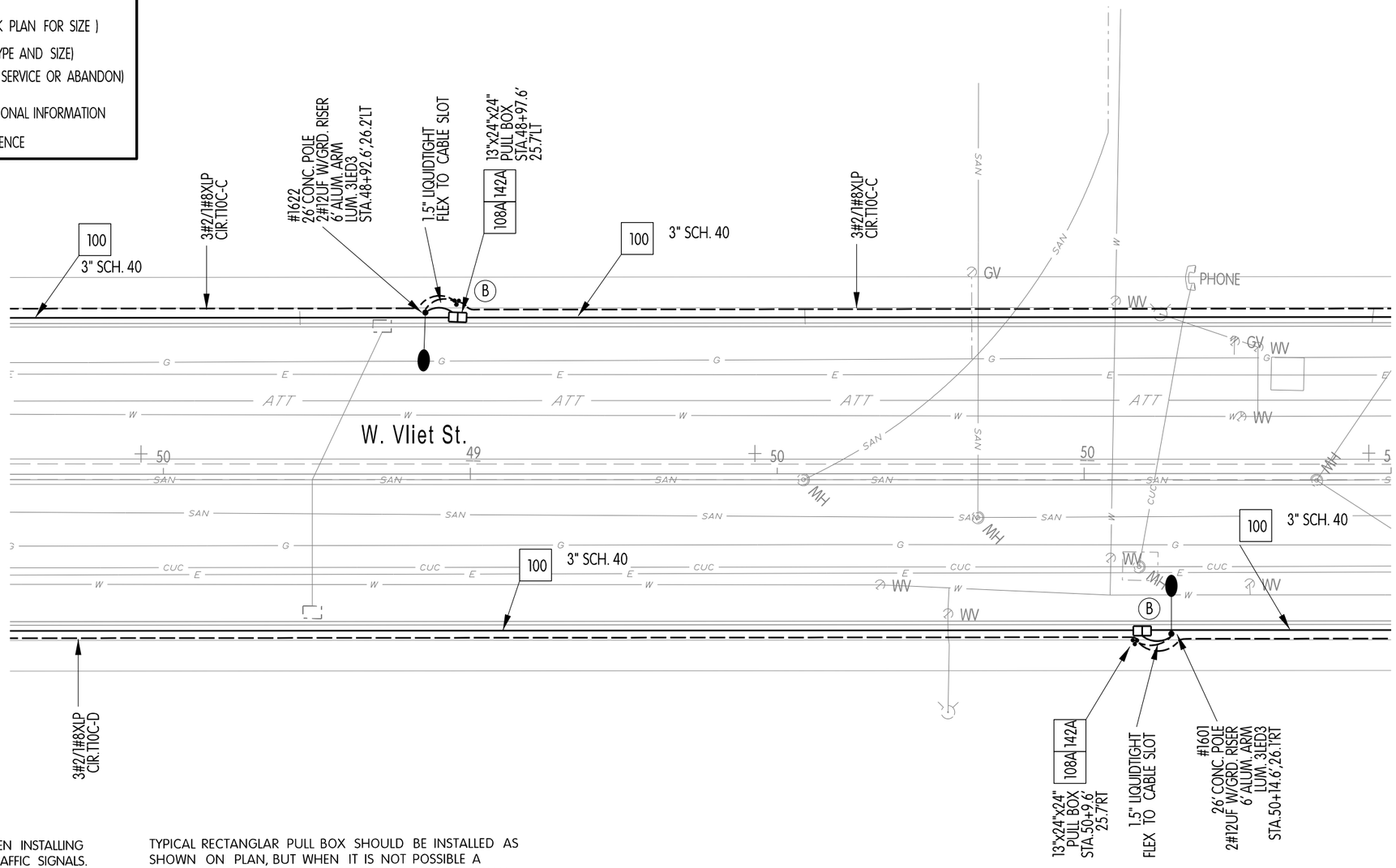
PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 147	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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0 20

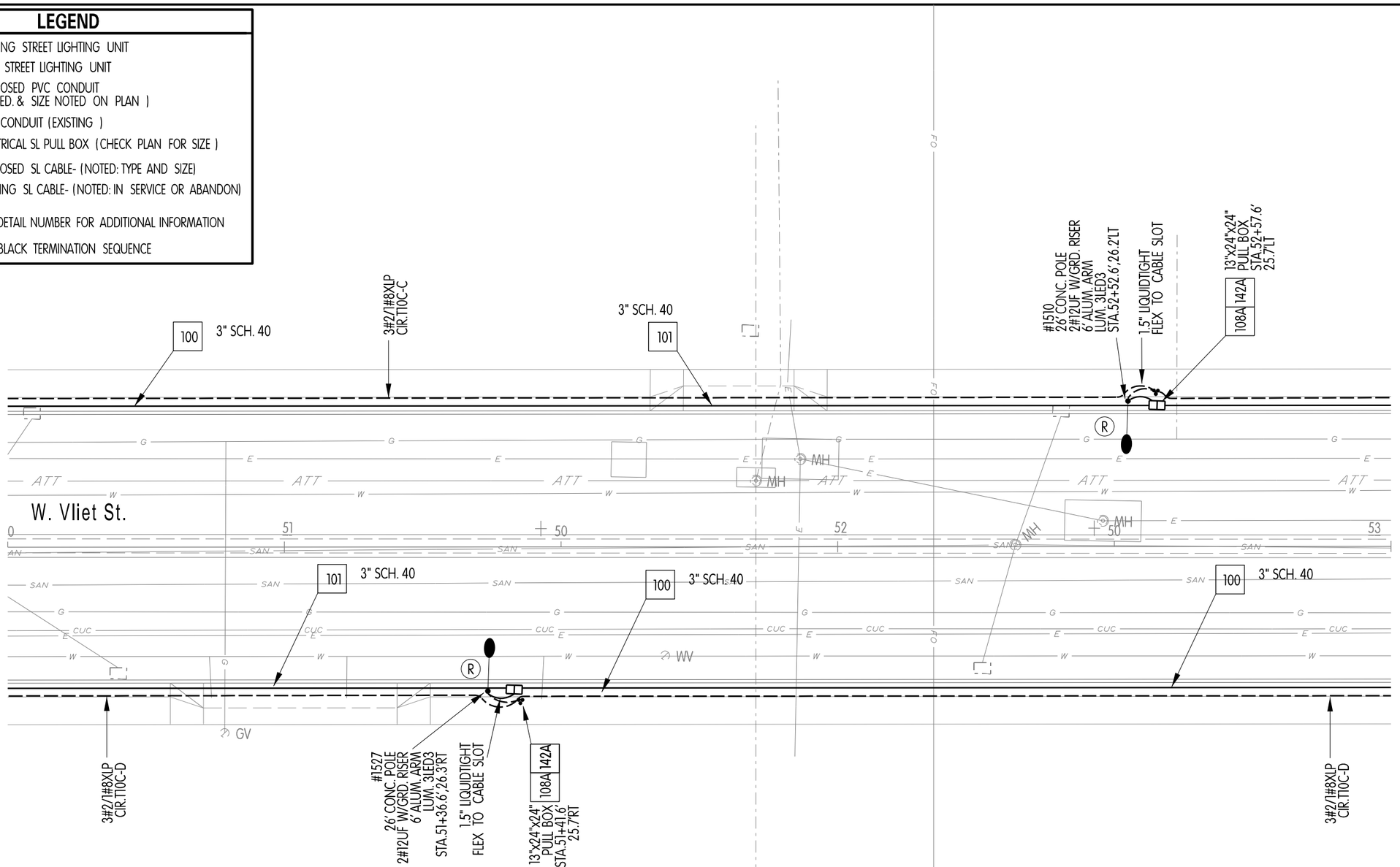
SCALE, FEET

SHEET 15 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 148	E

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

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SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

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ALL PVC IS SCHEDULE 40 EXCEPT WHEN NOTED AS SCHEDULE 80 AT ROADWAY CROSSINGS.

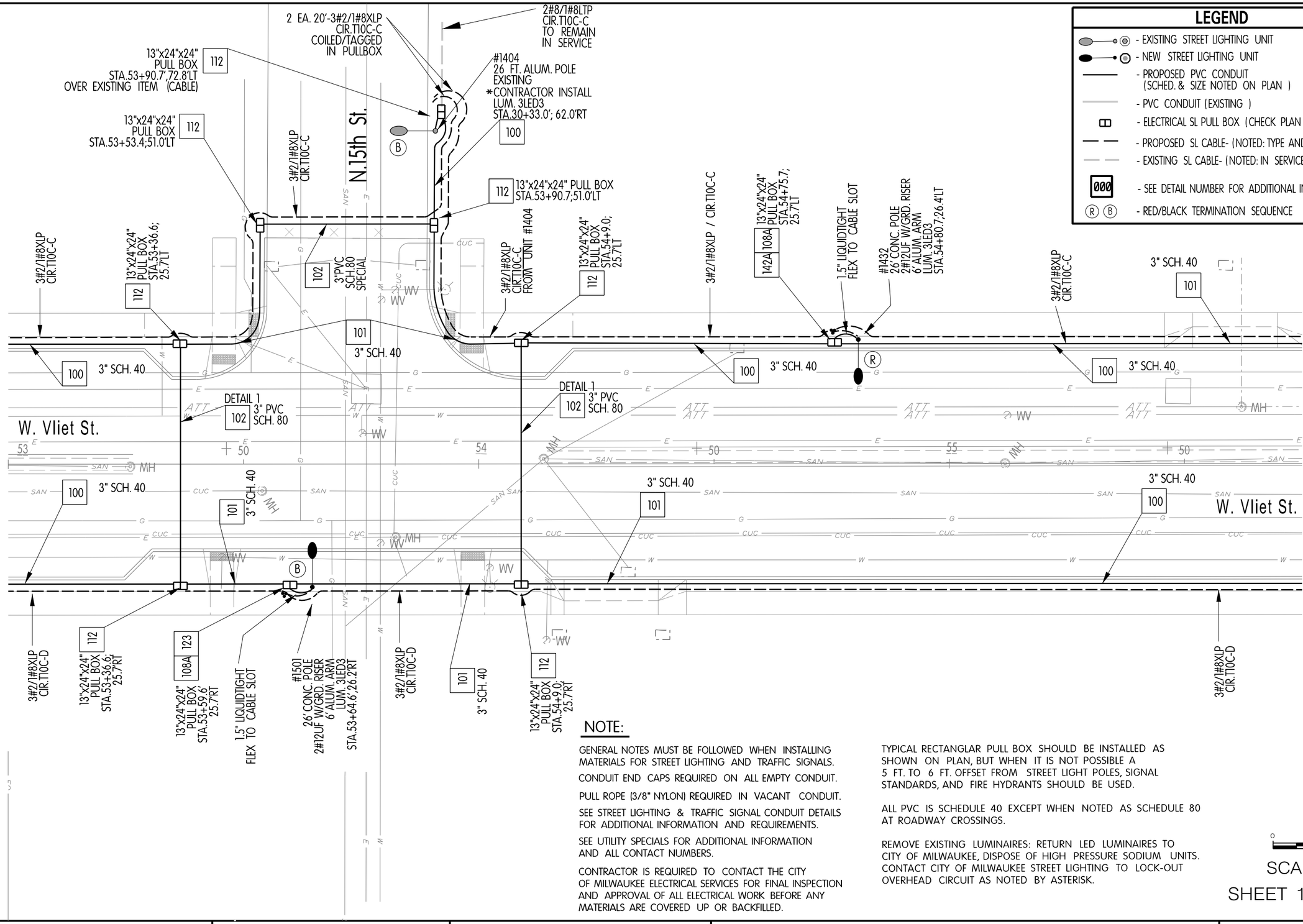
REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20

SCALE, FEET

SHEET 16 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 149	E



LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20

SCALE, FEET

SHEET 17 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 150	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn

PLOT DATE : 22–JUN–2022 15:18 PLOT BY : lnickm PLOT NAME : _____ PLOT SCALE : 1:20

WISDOT SHEET

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

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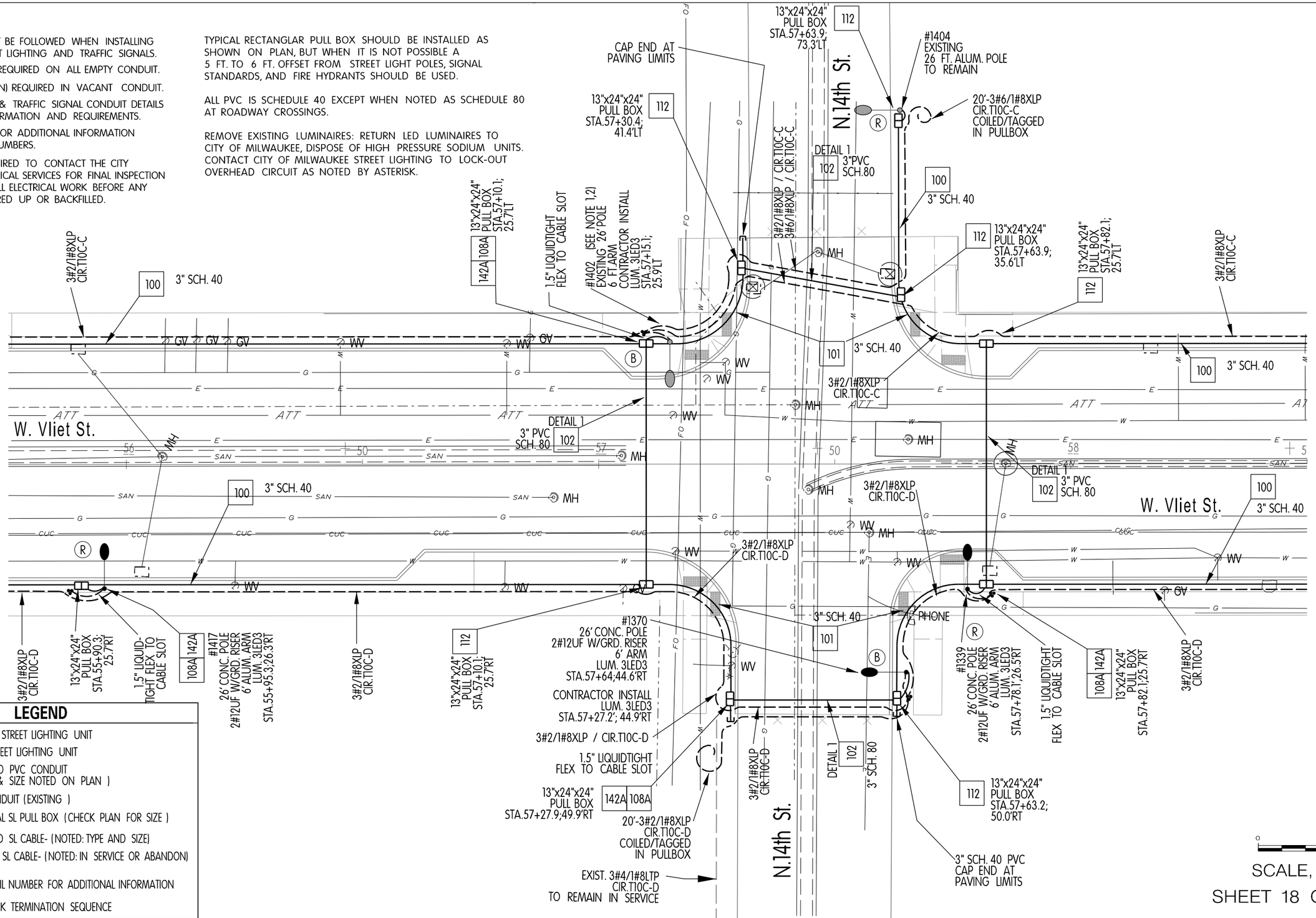


LEGEND

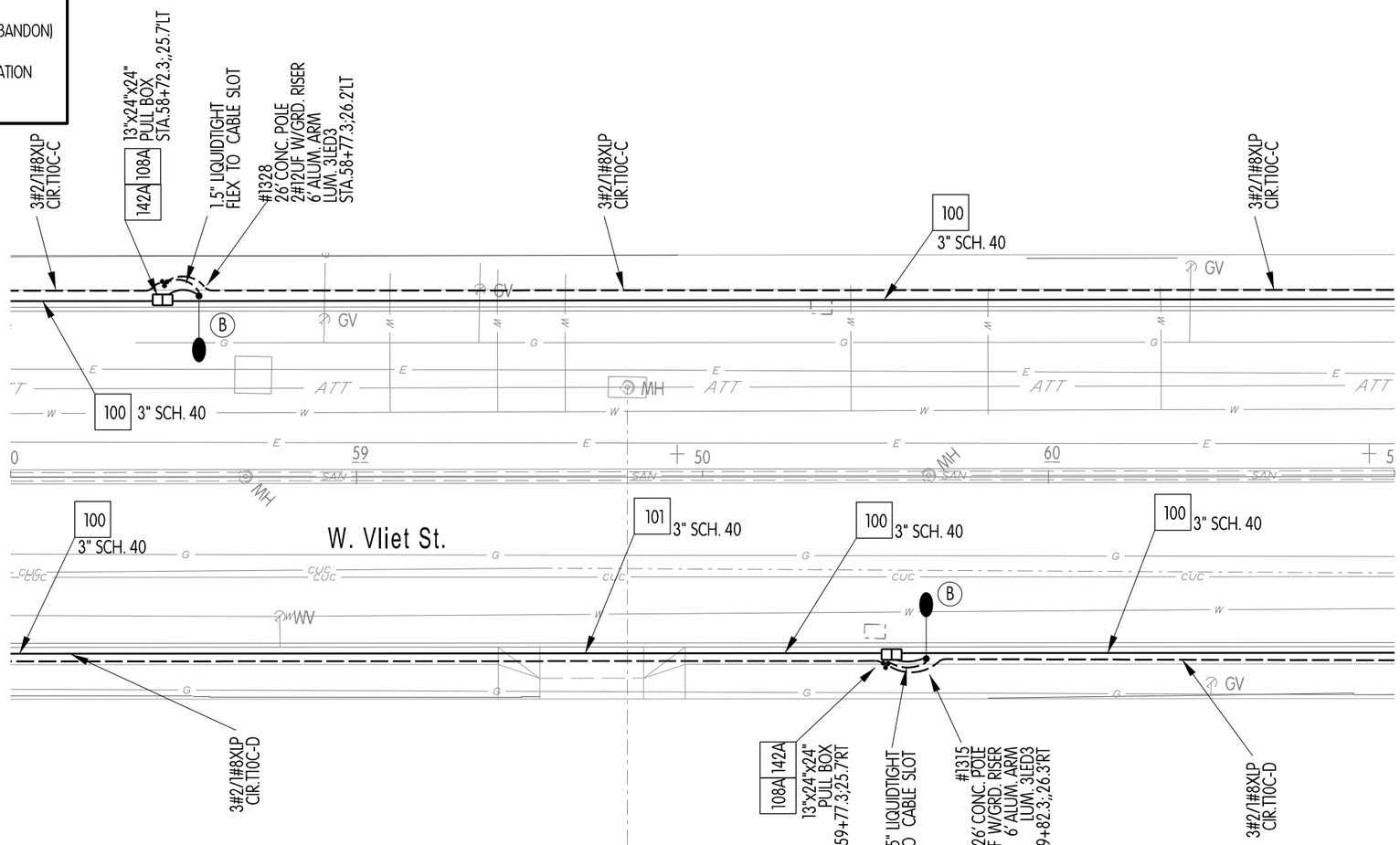
- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 18 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 151	E

LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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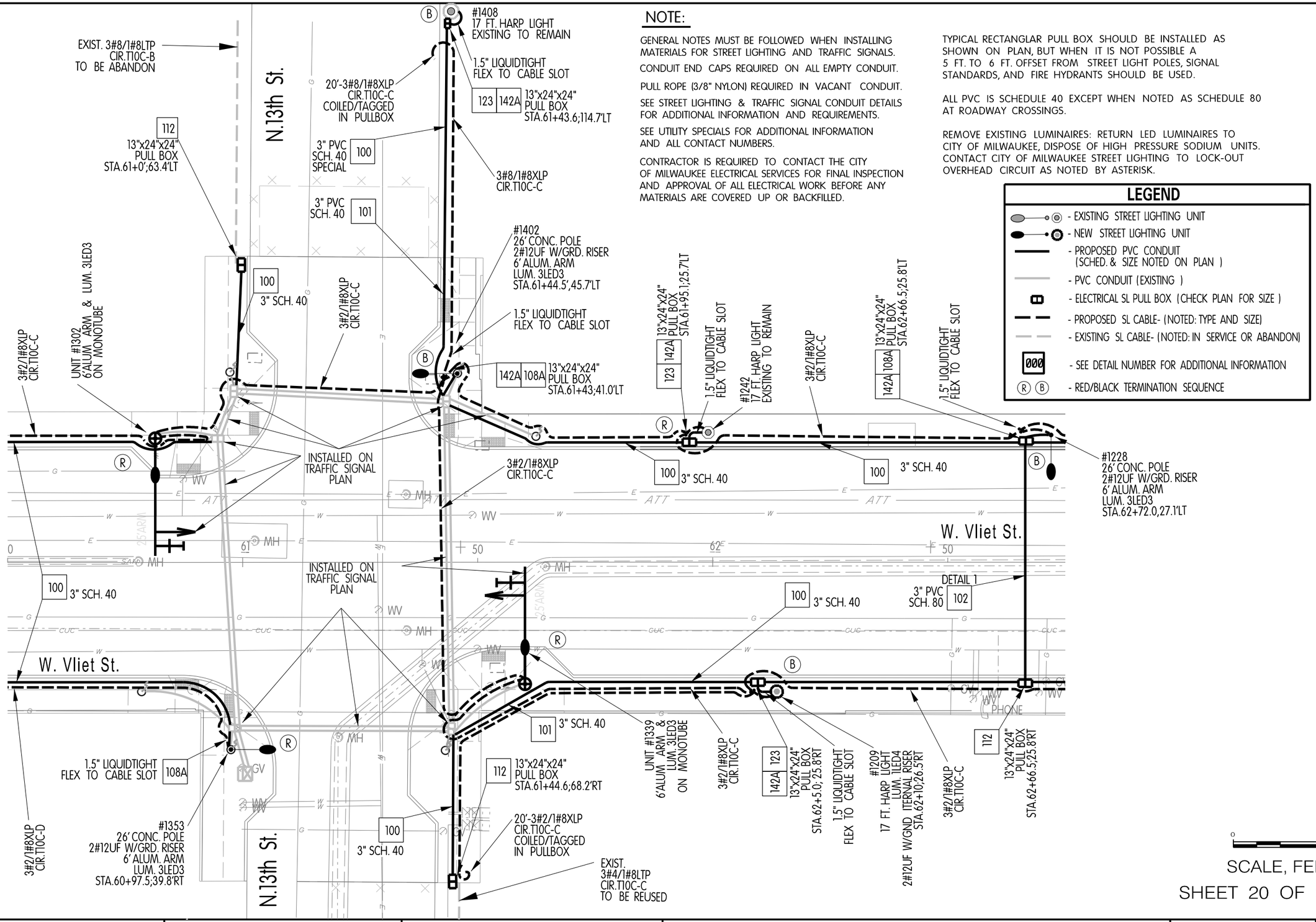
REMOVE EXISTING LUMINAIRES: RETURN LED LUMINAIRES TO CITY OF MILWAUKEE, DISPOSE OF HIGH PRESSURE SODIUM UNITS. CONTACT CITY OF MILWAUKEE STREET LIGHTING TO LOCK-OUT OVERHEAD CIRCUIT AS NOTED BY ASTERISK.

0 20

SCALE, FEET

SHEET 19 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 152	E



NOTE:

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CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

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LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE

SHEET 20 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 153	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn
PLOT DATE : 28–JUL–2022 06:52
PLOT BY : lnickm
PLOT NAME : _____
PLOT SCALE : 1:20
WISDOT SHEET

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN VACANT CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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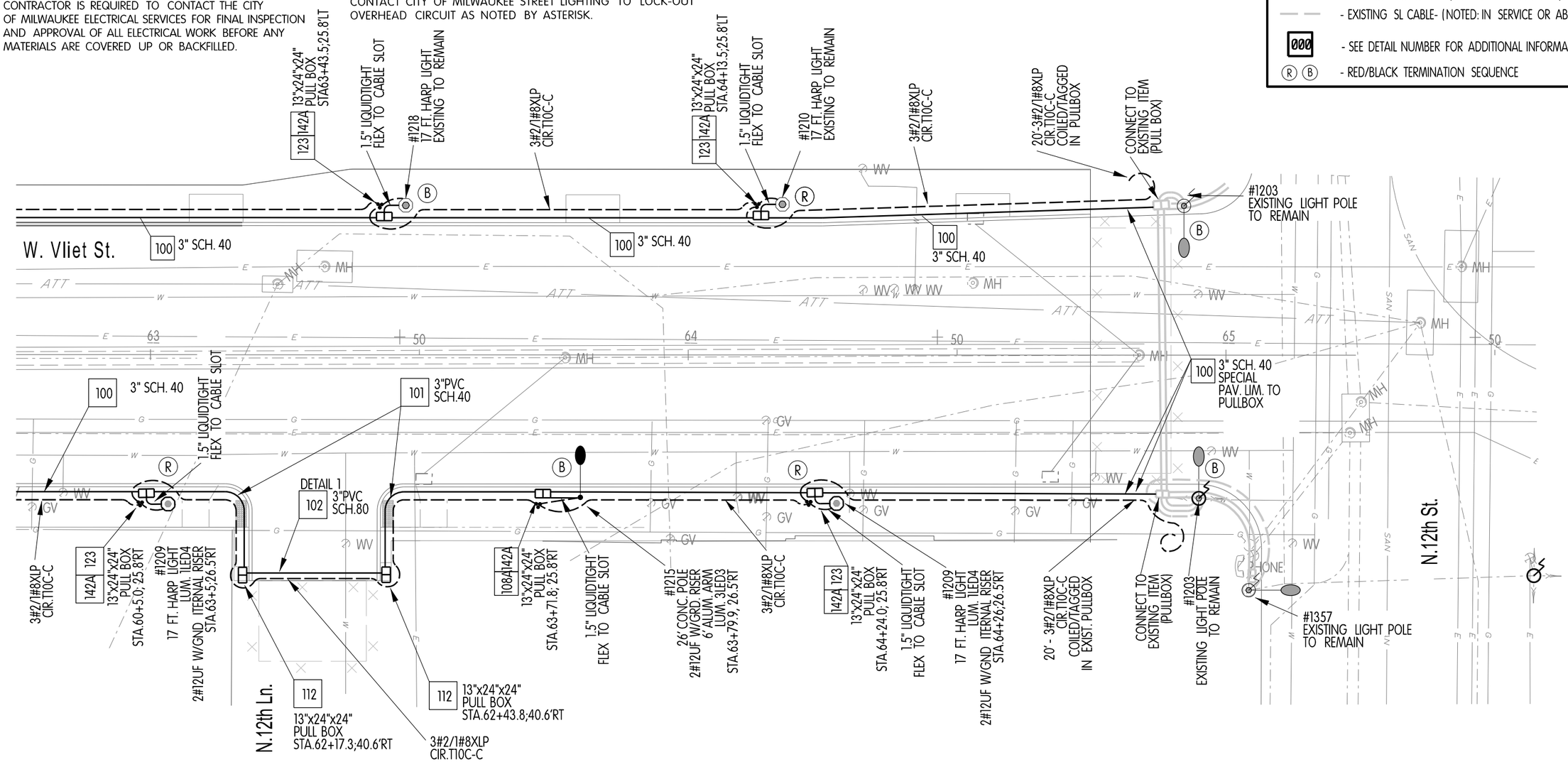
LEGEND

- EXISTING STREET LIGHTING UNIT
- NEW STREET LIGHTING UNIT
- PROPOSED PVC CONDUIT (SCHED. & SIZE NOTED ON PLAN)
- PVC CONDUIT (EXISTING)
- ELECTRICAL SL PULL BOX (CHECK PLAN FOR SIZE)
- PROPOSED SL CABLE- (NOTED: TYPE AND SIZE)
- EXISTING SL CABLE- (NOTED: IN SERVICE OR ABANDON)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- (R) (B) - RED/BLACK TERMINATION SEQUENCE



SHEET 21 OF 21

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 154	E

FILE NAME : W:\bes_WisDot\2023\(2984–00–73) wVliet St – 27th to 12th\NEW 2022\Vliet Perm. UG–final submit.dgn
PLOT DATE : 22–JUN–2022 15:28
PLOT BY : lnickm
PLOT NAME : _____
PLOT SCALE : 1:20
WISDOT SHEET

2

N

N.27th St.

PULL BOX

2-3"PVC

LIGHT POLE #2638
TO REMAIN
STA.10+79.4',25.7'LT

REMOVE
3#6AL
CIR.T9C-E

REMOVE #2624
35'WOOD POLE, 6' ARM
250W HPS
STA.11+75.6', 26.5'LT

REMOVE
3#6AL
CIR.T9C-E

REMOVE #2610
35'WOOD POLE
6' ARM, 250W HPS
STA.12+80.9', 26.5'LT

REMOVE
3#6AL
CIR.T9C-E

60'
105'
105'
130'

REMOVE
3#6AL
CIR.T9C-E

W. VLIET ST.

MONOTUBE #2637
TO REMAIN
STA.12+67',25.7'RT

PULL BOX

2-3"PVC

REMOVE #2601
35' WOOD POLE
12' ARM
250W HPS
STA.13+89.5',39.0'RT

#1343 TO REMAIN
26' ALUM., 6' MITCHELL ARM
REMOVE SECONDARY RISER
STA.13+90.5',50.0'RT

20'

PROTECT AND ADJUST
EXISTING CIRCUITRY
CAUTION

REMOVE
3#6AL
CIR.T9C-E

CIRCUIT TO
BE REUSED

ACTIVE CIRCUIT

REMOVE
10'-3#6AL
CIR.T9C-E

PROTECT AND ADJUST
EXISTING CIRCUITRY
CAUTION

N.26th St.

REMOVE 35'WP
STA.14+25.7',76.3'LT

#1404 TO REMAIN
26' ALUM., 6' MITCHELL ARM
4"x4"x36" WIRING PED
REMOVE SECONDARY RISER
STA.14+25.7',71.3'LT

125'
100'

REMOVE
3#6AL
CIR.T9C-E

REMOVE #2534
35'WOOD POLE, 6' ARM
250W HPS
STA. 14+35.4', 26.5'LT

#2522 TO REMAIN
26' CONCRETE POLE
6' ARM
STA.15+14.4', 25.7'LT

REMOVE #2508
35'WOOD POLE, 6' ARM
250W HPS
STA. 16+12.0', 26.5'LT

70'
105'

REMOVE
3#6AL
CIR.T9C-E

REMOVE
3#6AL
CIR.T9C-E

W. VLIET ST.

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
17 EA	WOOD POLES, CLASS 3
90 LF	2-2-4 TRIPLEX
350 LF	4-4-6 TRIPLEX
1400 LF	3#6 TRIPLEX & 3#12 UF
13 EA	6' ARM, HPS LUM.
5 EA	RISER

N.25th St.

CIRCUIT TO
BE REUSED

REMOVE 35'WOOD POLE
SECONDARY RISER
STA.16+67.4',49.0'LT

2"PVC

REMOVE 3#6AL
CIR.T9C-E

REMOVE #1402
45'WOOD POLE
6' ARM, 250W HPS3
4"X4"X36" WIRING PED.
STA.17+2.9',49.0'LT

40'

REMOVE #2482
35'WOOD POLE
6'WP ARM
250W HPS
STA.17+30.4',25.7'LT

REMOVE #2472
35'WOOD POLE, 6' ARM
250W HPS

REMOVE
3#6AL
CIR.T9C-D

REMOVE #2460
35'WOOD POLE, 6' ARM
250W HPS

REMOVE
3#6AL
CIR.T9C-D

REMOVE #2440
35'WOOD POLE
12' ARM
250W HPS
STA.19+62.1',26.5'LT

70'

REMOVE
2#4/1#6AL
CIR.T9C-E

120'

REMOVE 3#6AL
CIR.T9C-E

90'
90'

W. VLIET ST.

90'

REMOVE 3#6AL
CIR.T9C-E

#1353 TO REMAIN
26' CONCRETE POLE
6' ARM, 4"X4"X36" PED.
REMOVE SECONDARY
RISER
STA.16+65.5'
51.7'RT

REMOVE
35'WOOD POLE
STA.17+4.9',51.7'RT

45'

PROTECT AND ADJUST
EXISTING CIRCUITRY
CAUTION

CIRCUIT TO
BE REUSED

CAUTION

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.

PROTECT AND ADJUST
EXISTING CIRCUITRY
CAUTION

REMOVE
2#2/1#4AL
CIR.T9C-D

10'

#1414 TO REMAIN
26' ALUM., 6' ARM
4"x4"x36" WIRING PED.
REMOVE SECONDARY
RISER
STA.20+9.9',99.5'LT

REMOVE 35'WOOD POLE
STA.20+9.9',95.5'LT

75'

N.24th Pl.

115'

REMOVE #2428
35'WOOD POLE
250W HPS
STA.20+87.3',26.5'LT

REMOVE
2#4/1#6AL
CIR.T9C-D

REMOVE #2414
35'WOOD POLE
6' ARM, 250W HPS
STA.22+05.3',26.5'LT

REMOVE
2#4/1#6AL
CIR.T9C-D

125'
110'

W. VLIET ST.

105'

REMOVE
2#4/1#6AL
CIR.T9C-D

REMOVE
3#6AL
CIR.T9C-D

N.24th Pl.

3#6AL
CIR.T9C-D
DISCONNECT
BY CITY FORCES

PROTECT AND ADJUST
EXISTING CIRCUITRY
CAUTION

REMOVE #1352
35'WOOD POLE
6' ARM, 250W HPS
STA.20+18.1',62.2'RT

NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

SCALE, FEET 0 40

SHEET 1 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 155	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

N

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
10 EA	WOOD POLES, CLASS 3
0 LF	2-2-4 TRIPLEX
0 LF	4-4-6 TRIPLEX
1900 LF	3#6 TRIPLEX & 3#12 UF
9 EA	6' ARM, HPS LUM.
5 EA	RISER

PROTECT AND ADJUST EXISTING CIRCUITRY CAUTION

REMOVE 35' WOOD POLE SECONDARY RISER STA.23+53.5';108.0'LT

REMOVE 3#6AL CIR.T9C-D

REMOVE #2400 35' WOOD POLE 12' ARM, 250W HPS 8' ARM,250W HPS STA.23+03.5';33.0'LT

REMOVE 3#6AL CIR.T9C-D

REMOVE #1347 35' WOOD POLE 6 ARM, 250W HPS SECONDARY RISER STA.23+53.5';108.0'LT

N.24th St.

W. VLIET ST.

95'

100'

130'

30'

110'

120'

85'

110'

110'

25' ARM

PHONE

REMOVE 35' WOOD POLE STA.24+30.5';28.0'LT

#2330 TO REMAIN 26' CONCRETE POLE 6' ARM STA.24+53.5';28.0'LT

REMOVE 3#6AL CIR.T9C-D

#2313 TO REMAIN 26' CONCRETE POLE 6 FT.ARM STA.25+47.5';26.0'RT

#2302 TO REMAIN 26' CONCRETE POLE 6 FT.ARM STA.26+55.1';25.7'LT

N.23rd. St.

#2239 TO REMAIN 26' CONCRETE POLE 6 FT.ARM STA.27+16.2';25.7'RT

#2228 TO REMAIN 26' CONCRETE POLE 6 FT.ARM STA.28+2.1', 26.1'LT

REMOVE 3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-D

#1404 TO REMAIN 26 FT.ALUM. POLE 6' ARM

N.22nd St.

REMOVE #2206 35' WOOD POLE 6' ARM, 250W HPS UP. END ARM STA.29+62.2';26.2'LT

REMOVE #2135 35' WOOD POLE, 6' ARM. 250W HPS STA.30+54.9';25.7'LT

REMOVE #2120 35' WOOD POLE 6' ARM 250W HPS STA.31+77.0';25.7'LT

REMOVE #2106 35' WOOD POLE 6' ARM, 250W HPS STA.32+96.0';26.5'LT

PROTECT AND ADJUST EXISTING CIRCUITRY CAUTION

REMOVE #1405 35'WP 6'UB,253.B SECONDARY RISER STA.33+30.5';40.8'LT

N.21st. St.

REMOVE #2038 35' WOOD POLE, 6' ARM 250W HPS STA.33+93.8';25.7'LT

#2028 TO REMAIN 26' CONCRETE POLE 6 FT.ARM

W. VLIET ST.

105'

125'

125'

95'

90'

130'

90'

70'

50'

3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-D

REMOVE 3#6AL CIR.T9C-C

REMOVE 3#6AL CIR.T10C-F

#2211 TO REMAIN EXISTING POLE 6 FT.ARM STA.28+92.2', 26.0'RT

REMOVE 3#6AL CIR.T9C-D

#1337 TO REMAIN 26' CONCRETE POLE 6 FT.ARM 4"X4"X36" WIRING PED. REMOVE SECONDARY RISER STA.29+96.4', 50.0'RT

PROTECT AND ADJUST EXISTING CIRCUITRY CAUTION

REMOVE 3#6AL CIR.T9C-D

PROTECT AND ADJUST EXISTING CIRCUITRY CAUTION

REMOVE 35'WP SECONDARY RISER STA.30+37.2';102.07'RT

22nd St.

#1361 TO REMAIN 26' ALUMINUM POLE 6' ARM

3#6AL CIR.T9C-D DISCONNECT BY CITY FORCES

WE-ENERGIES WP #17-02332 CROSS ARM REMOVED BY CITY FORCES

N.21st. St.

CAUTION

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.

SCALE, FEET 0 40

SHEET 2 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 156	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

N

#1413 TO REMAIN
26' CONCRETE POLE
6' ARM, 250W HPS
4"X4"X36" WIRING PED
100A 120V SIGNAL SERVICE METER
SECONDARY TRAFFIC RISER
REMOVE
SECONDARY RISER
STA.36+55.5';164.6'LT

REMOVE
3#6AL
CIR.T10C-F

REMOVE
3#6AL
CIR.T10C-F

REMOVE
3#6AL
CIR.T10C-F

REMOVE #2016
35' WOOD POLE, 6' ARM
250W HPS
STA.35+44.3';25.7'LT

REMOVE #2004
35' WOOD POLE
6' ARM
250W HPS
STA.36+30.3';25.7'LT

REMOVE
35' WOOD POLE
STA.37+02.5';70.0'LT

REMOVE #1404
35' WOOD POLE
6' ARM, 250W HPS
STA.37+02.5';70.0'LT

#1926 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.37+99.9', 25.8'LT

#1906 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.39+79.4';26.4'LT

#1822 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.41+29.2', 25.8LT

REMOVE #1800
35' WOOD POLE, 6' ARM

N. 20th. St.

105'

St.

30'

80'

90'

70'

100'

105'

115'

90'

105'

110'

110'

W. VLIET ST.

W. VLIET ST.

REMOVE
3#6AL
CIR.T10C-F

REMOVE #1361
35' WOOD POLE
6' ARM.,250W HPS
STA.36+51.5';33.5'RT

135'

N.20th. St.

REMOVE
3#6AL
CIR.T10C-F

PROTECT AND ADJUST
EXISTING CIRCUITRY

CAUTION

REMOVE #1935
35' WOOD POLE
6' ARM, 250W HPS
STA.37+20.6', 26.6'RT

REMOVE
3#6AL
CIR.T10C-E

#1915 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.38+82.6', 26.6'RT

REMOVE
3#6AL
CIR.T10C-E

#1833 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.40+43.3', 26.9'RT

#1811 TO REMAIN
26' CONCRETE POLE
6' FT ARM
STA.42+16.7', 26.5'RT

#1344 TO REMAIN
26' CONCRETE POLE
6' ARM, 250W HPS
4"X4"X36" WIRING PED
REMOVE SECONDARY RISER
STA.36+99.5';62.6'RT

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 3
0 LF	2-2-4 TRIPLEX
0 LF	4-4-6 TRIPLEX
1325 LF	3#6 TRIPLEX & 3#12 UF
5 EA	6' ARM, HPS LUM.
2 EA	RISER

CAUTION

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.

SCALE, FEET 0 50

SHEET 3 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 157	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

N

W. Kneeland St.
N. 18th St.
N. 17th St.
W. VLIET ST.

#1802 TO REMAIN 26'CONCRETE POLE 6' FT.ARM, HPS LUMINAIRE HEAD SPLICE TO REMAIN
#1426 26'DOUBLE UNIT CONCETE POLE 2-6' ARMS, 2-HPS LUMINAIRES 4"X4"X36" WIRING PEDESTAL
AL TRIPLEX CIR.T10C-E TO BE REMOVED BY CITY FORCES
EXIST. #1403 26 FT. CONCRETE 150W HPS TO REMAIN
3#8/1#8LTP CIR.T10C-E
35'WOOD POLE TO BE REMOVED BY CITY FORCES
PROTECT AND ADJUST EXISTING CIRCUITRY
CAUTION
EXISTING 3#8/1#8LTP CIR.T10C-E TO BE REUSED
REMOVE 3#6AL CIR.T10C-E THRU TREE
REMOVE #1800 35'WOOD POLE, 6' ARM 250W HPS STA.42+99.7',26.5'LT
REMOVE 3#6AL CIR.T10C-E
REMOVE 2#4/1#6AL CIR.T10C-E
#1730 TO REMAIN 26'CONCRETE POLE 6' FT.ARM, STA.44+55.0',26.5'LT
REMOVE 2#4/1#4AL CIR.T10C-E
REMOVE 35' WOOD POLE STA.45+43.0',28.5'LT
#1355 TO REMAIN 26'ALUM., 6' ARM 250W HPS 4"X4"X36" WIRING PED. MOVE SECONDARY RISER STA.43+19.5', 54.7'RT
REMOVE 3#6AL CIR.T10C-E
REMOVE #1733 35'WOOD POLE 6'ARM, 250W HPS STA.43+75.4',25.7'RT
#1717 TO REMAIN 26'CONCRETE POLE 6' ARM STA.45+43.0',26.5'RT
#1414 TO REMAIN 26'CONCRETE POLE 2-8' ARMS, 2-HPS LUM. 4"X4"X36" WIRING PED. REMOVE SECONDARY RISER STA.47+7.5', 187.0'LT
3#2/1#8LTP CIR.T10C-E TO REMAIN IN SERVICE
REMOVE 35'WOOD POLE SECONDARY RISER STA.46+49.5',84.5'LT
REMOVE 2#4/1#6AL CIR.T10C-E
REMOVE #1704 26'CONCRETE TRAFFIC 6' ARM RETURN TO CANAL STA.46+37.0',26.5'LT
REMOVE 2#4/1#6AL CIR.T10C-E
#1378 EXISTING 26'CONCRETE POLE 2-8' ARMS STA.30+33.0', 62.0'RT
REMOVE 3#12UF CIR.T10C-D
3#8/1#8LTP CIR.T10C-D TO REMAIN IN SERVICE
PROTECT AND ADJUST EXISTING CIRCUITRY
CAUTION
#1358 TO REMAIN 26'CONCRETE POLE 2-8' ARMS
3#2/1#8LTP CIR.T10C-D TO REMAIN IN SERVICE
REMOVE 3#12UF CIR.T10C-D
REMOVE 35'WOOD POLE SECONDARY RISER STA.47+57', 79.2'RT
REMOVE 2#4/1#6AL CIR.T10C-D
REMOVE #1633 35'WOOD POLE 6' ARM, HPS LUM. STA.47+82.4',25.7'RT
#1402 TO REMAIN 26 FT.CONC.POLE 2-8' ARMS, 4"X4"X36" WIRING PED.
REMOVE 2#2/1#4AL CIR.T10C-D
REMOVE 2#2/1#4AL CIR.T10C-D
REMOVE 35'WOOD POLE AFTER TRAFFIC SIGNALS STA.47+57',45'LT
REMOVE 2#4/1#4AL CIR.T10C-C
REMOVE 2#2/1#4AL CIR.T10C-D
3#2/1#8LTP CIR.T10C-C TO REMAIN IN SERVICE
REMOVE 2#2/1#4AL CIR.T10C-C
REMOVE #1626 35'WOOD POLE 6' ARM, HPS LUM. STA.48+79.4',25.7'LT
REMOVE 2#2/1#4AL CIR.T10C-C
REMOVE #1602 35'WOOD POLE 6' ARM, HPS LUM. STA.49+92.4',25.7'RT
REMOVE 2#2/1#4AL CIR.T10C-D
REMOVE 2#4/1#6AL CIR.T10C-D
REMOVE 2#2/1#4AL CIR.T10C-C

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
10 EA	WOOD POLES, CLASS 3
850 LF	2-2-4 TRIPLEX
700 LF	4-4-6 TRIPLEX
500 LF	3#6 TRIPLEX & 3#12 UF
5 EA	6' ARM, HPS LUM.
5 EA	RISER

CAUTION
THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.

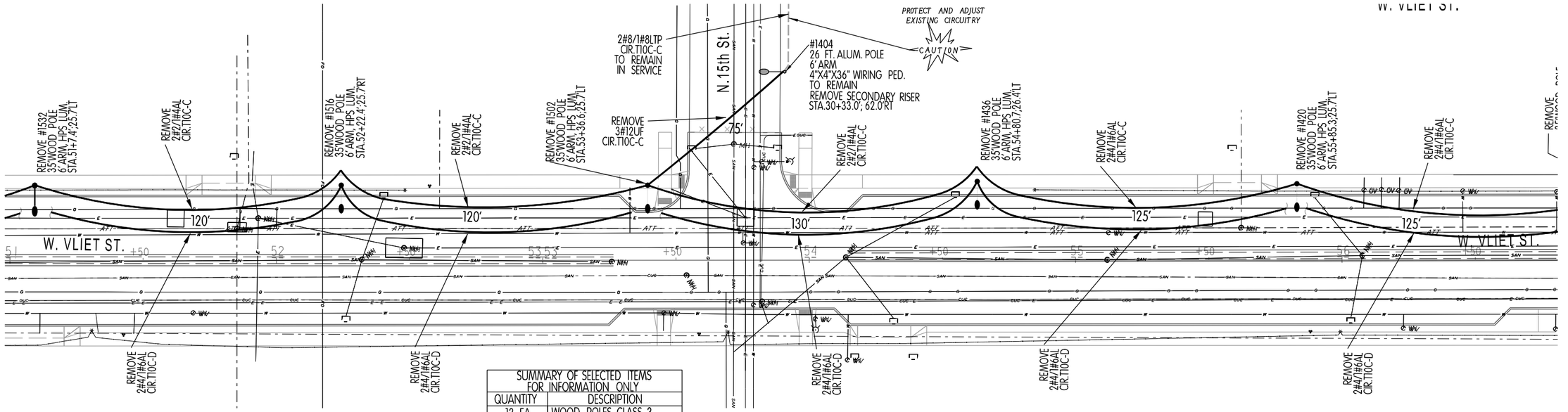
SCALE, FEET 0 50

SHEET 4 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 158	E

FILE NAME : $$.....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

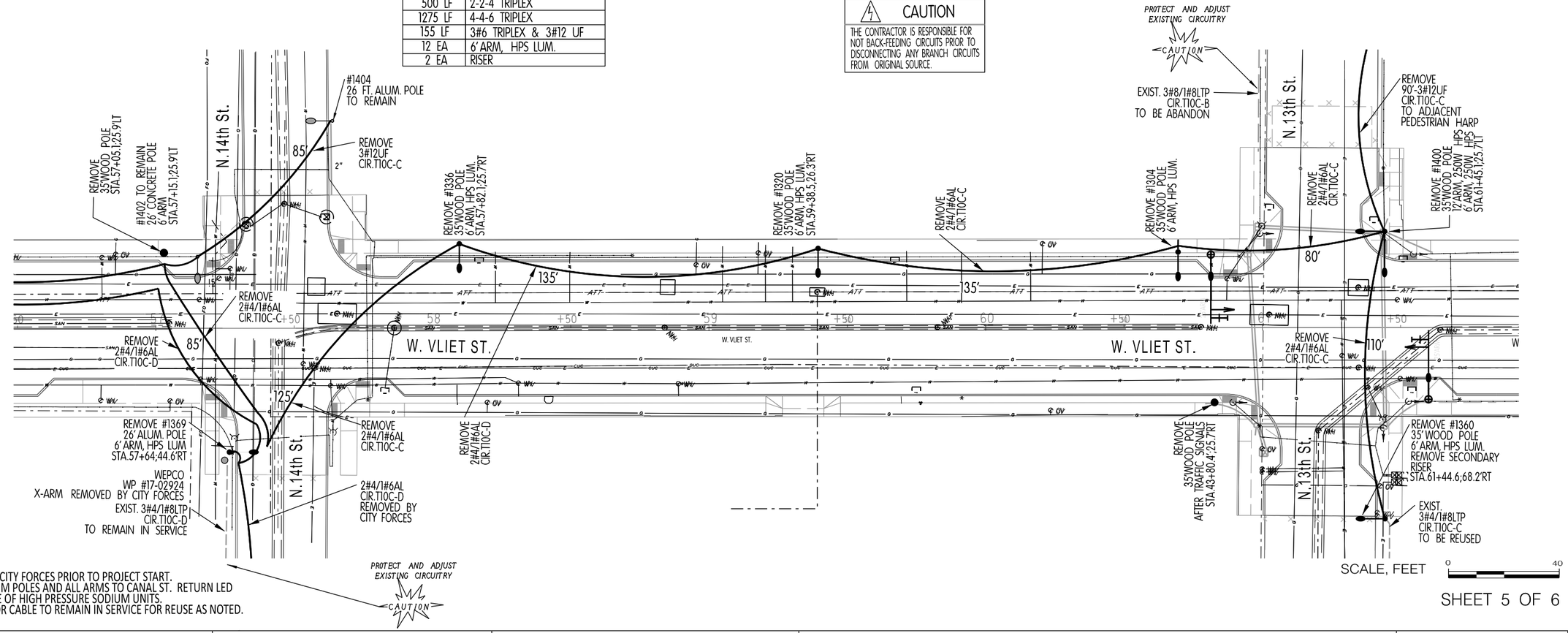
WISDOT SHEET



SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
13 EA	WOOD POLES, CLASS 3
500 LF	2-2-4 TRIPLEX
1275 LF	4-4-6 TRIPLEX
155 LF	3#6 TRIPLEX & 3#12 UF
12 EA	6' ARM, HPS LUM.
2 EA	RISER

CAUTION

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.



NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

SCALE, FEET 0 40

SHEET 5 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 159	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

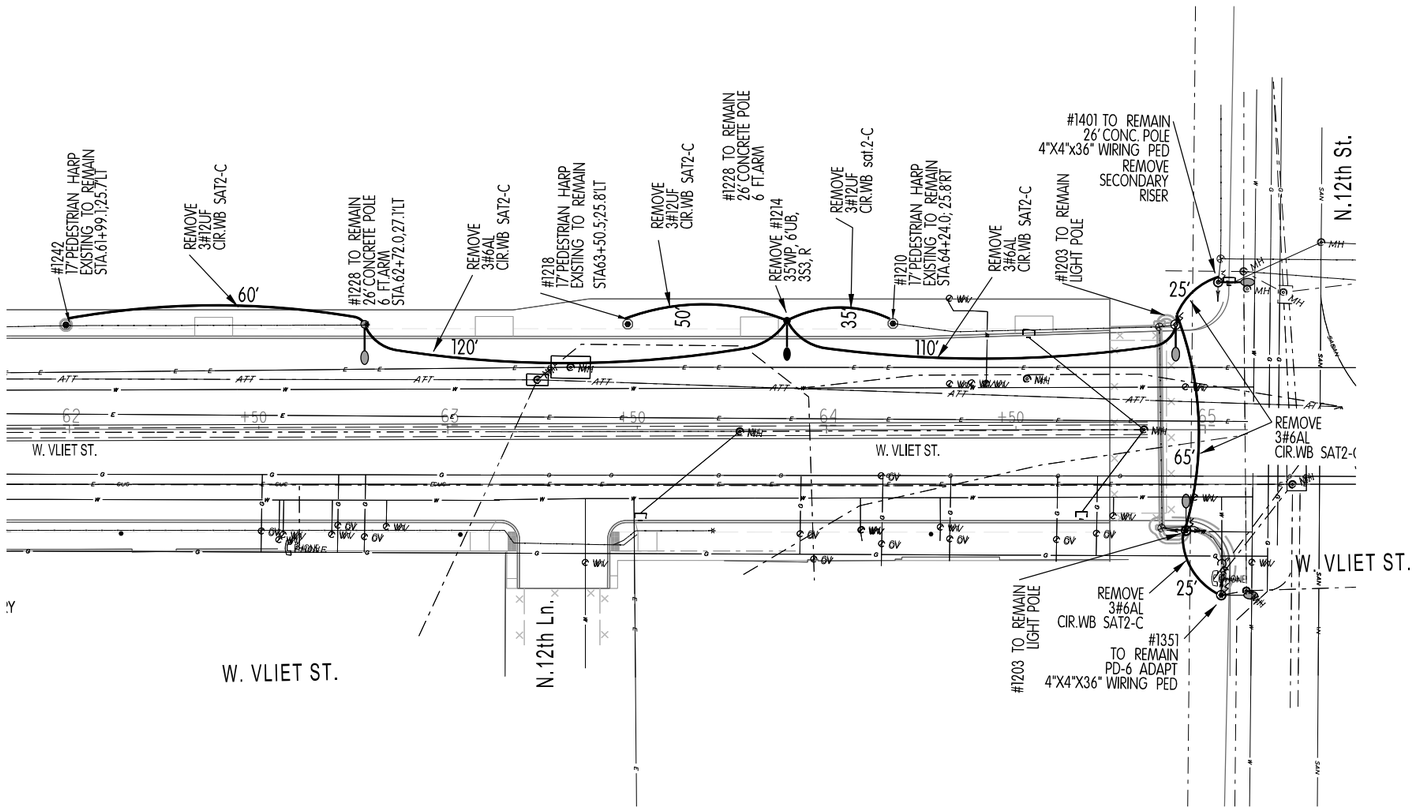
2

CAUTION

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACK-FEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM ORIGINAL SOURCE.

NOTES:
1. TEMPORARY LIGHTING BY CITY FORCES PRIOR TO PROJECT START.
2. RETURN WOOD, ALUMINUM POLES AND ALL ARMS TO CANAL ST. RETURN LED LUMINAIRES AND DISPOSE OF HIGH PRESSURE SODIUM UNITS.
3. EXISTING CONDUIT AND/OR CABLE TO REMAIN IN SERVICE FOR REUSE AS NOTED.

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
1 EA	WOOD POLES, CLASS 3
0 LF	2-2-4 TRIPLEX
0 LF	4-4-6 TRIPLEX
330 LF	3#6 TRIPLEX & 3#12 UF
1 EA	6' ARM, HPS LUM.
1 EA	RISER



SCALE, FEET 0 40

SHEET 6 OF 6

PROJECT NO: 2984–00–74	HWY: W. VLIET ST.	COUNTY: MILWAUKEE	REMOVING TEMPORARY STREET LIGHTING PLAN	SHEET 160	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT SHEET

2

TRAFFIC & STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

1 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2 LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3 TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4 DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT A DISTANCE OF 6 INCHES AWAY FROM THE BACK OF CURB TO THE CENTER LINE OF CONDUIT, AND 18 INCHES DOWN MEASURED FROM THE TOP OF CURB OR FINISHED GRADE TO THE TOP OF CONDUIT.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE INSTALLED, PLACE ALL CONDUITS IN THE SAME TRENCH.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 THE CONTRACTOR OR HIS SUBCONTRACTOR MUST MAKE SURE THE AREA BEHIND CURB AND/OR TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

10 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13 CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16 WHEN ENDS OF CONDUIT DO NOT CONNECT TO A PULL BOX / VAULT AND WILL END UP UNDER CONCRETE WALK. THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17 ALL PIPE CROSSINGS AND PULL BOXES / VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19 TYPICAL RECTANGULAR PULL BOXES / VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

TRAFFIC & STREET LIGHTING GENERAL NOTES:

20 LIGHT POLES AND TRAFFIC STANDARDS INSTALLED BEHIND THE CURB MUST MEET A MINIMUM DISTANCE OF 24 INCHES FROM THE FACE OF CURB TO THE CURB SIDE FACE OF THE POLE OR TRAFFIC STANDARD.

21 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND PULL BOXES/ VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

22 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES / VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251
STREET LIGHTING - GEORGE BERDINE (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

23 CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

2

2

TRAFFIC & STREET LIGHTING GENERAL NOTES:

As-Built Guidelines:

Provide as-built drawings detailing the final placement of conduit, cabling, equipment, and geometric modifications under the contract. Provide PDF copy conforming to CMM 1-65.14, or record all changes in Red ink Only on the As-Let (Design) paper drawings. The engineer will reject as-builts with incomplete or incorrect content or not conforming to CMM standards.

It is critical that the Contractor work on the As-Built drawings while the job is progressing, so changes are documented while they are still fresh in your mind.

If there is a structure drawing, include all structures drawing sheets. It is the responsibility of the Contractor to insert any addendum or replacement drawing sheets. To do this, renumber them similarly to the original drawing sheet.

For example, "Revised Sheet 5" would replace sheet 5. However all original sheets shall remain in the As-Built. If the sheet has been replaced cross it out with an x and indicate the number of its replacement sheet. If additional sheets were added insert them in the logical location and label them with the previous sheet number followed by an "A","B","C", etc.

Note the sheet changes on the title sheet under the ORDER OF SHEETS.

The title sheet of the As-Built drawing should include the following info:

AS-BUILT DRAWING
SUPERVISER:
PROJECT MANAGER:
CONTRACTOR LEADER:
CONTRACTOR COMPANY:
WORK STARTED:
WORK COMPLETED:

Line out or cross out all changed information and write-in the corrected information above the original or close to it where ever possible. Use blank spaces on the drawing so notes are not superimposed. Drawings with excessive detail may require an alternate approach. Numbered changes or additions may-be shown on supplemental non-drawing sheets.

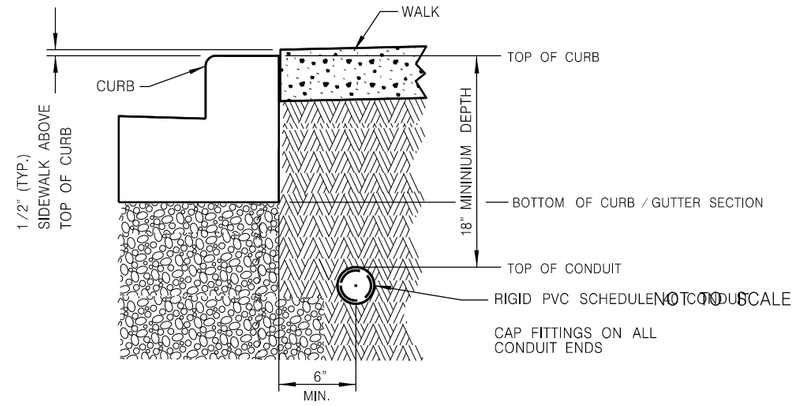
< Locate and clearly label all conduit runs, fittings, splice vaults, pull boxes, meter pedestals, concrete bases, transformers, poles and other appurtenances in two directions. Swing ties should be made from objects that are permanent in nature and visible on the finished surface.
< Street names shall be on all sheets.
< Show all sizes and material types of pipes and conduits, if changed or modified from original design.
< All horizontal distances shall be shown to the nearest tenth of a foot (i.e., 205.3'). All vertical distances shall be shown to the nearest inch (i.e., 24").
< Show location and elevations on pipes and fittings where changes or deflections in direction occur.
< Special detail drawings may be required where installations are not shown on approved construction drawings for whatever reason or where required for clarity.
< Typical service installation details with deviations from original plans or standard details shall be noted on as-built drawings.
< No arbitrary mark-ups will be permitted.

If there are no corrections or additions to the As-Let plan(s) put "NO CHANGE" on the sheet with other required As-Built information.

Send to:
City of Milwaukee
Infrastructure Services Division
Transportation Section
Street Lighting & CUC Engineering Manager
841 N. Broadway (Room 920)
Milwaukee, WI. 53202

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



100 DETAIL "A" — NOT TO SCALE

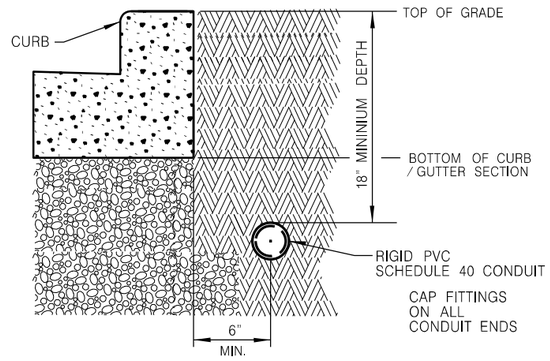
TYPICAL CONDUIT INSTALLATION BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

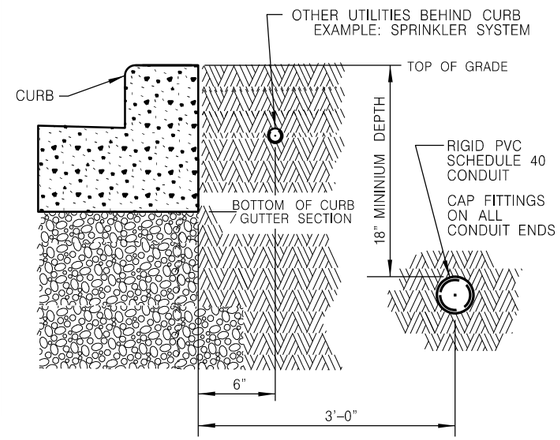
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



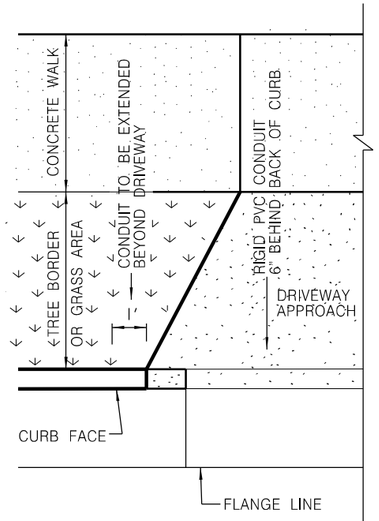
DETAIL "C"



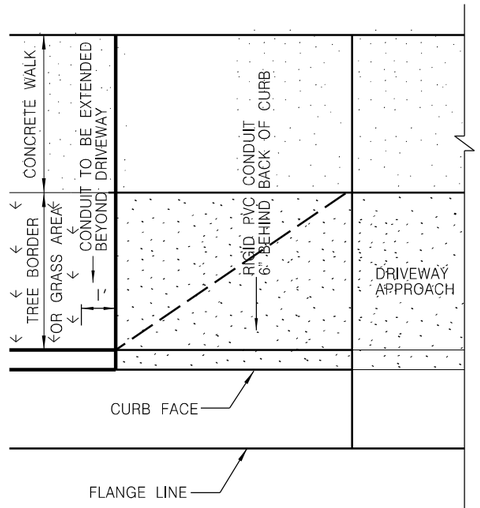
100 DETAIL "B" & "C" — NOT TO SCALE

TYPICAL CONDUIT INSTALLATION BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

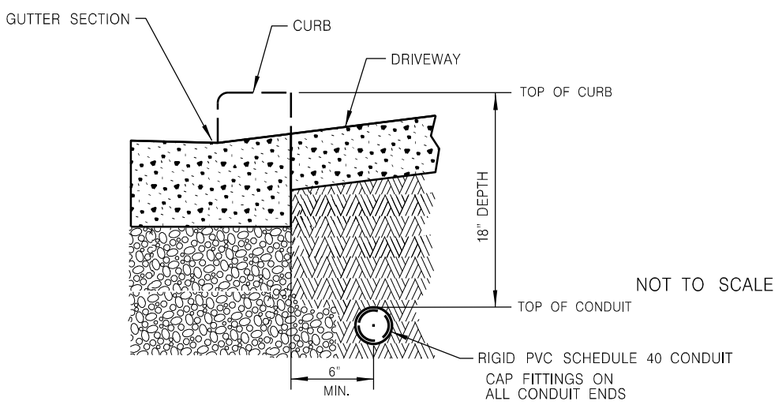


TYPICAL PLAN VIEW FOR FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR DEPRESSED DRIVEWAY

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



NOT TO SCALE

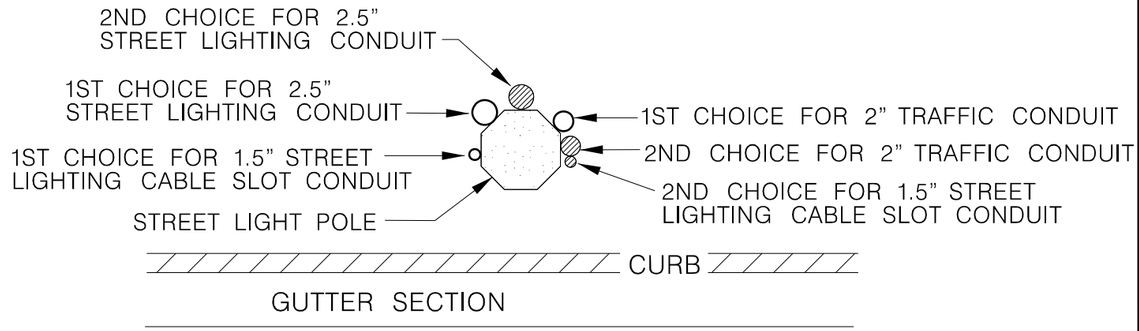
101 DETAIL

TYPICAL CONDUIT INSTALLATION UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

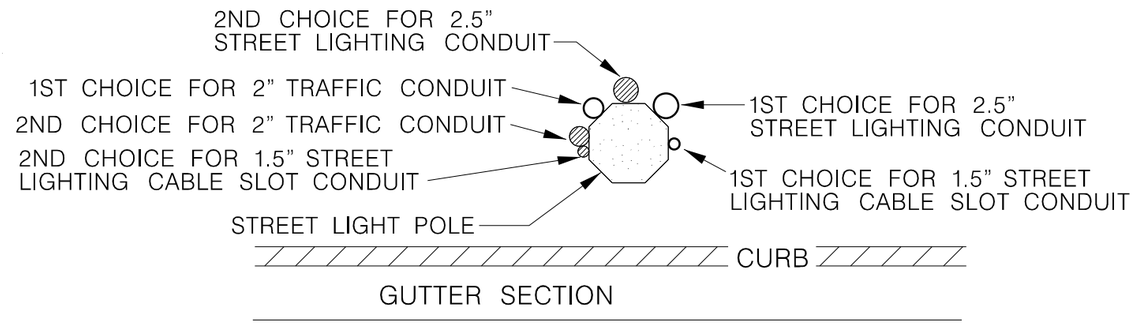
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2

NOTE: CAP FITTINGS ON CONDUIT ENDS



DIRECTION OF TRAFFIC AT CURB



DIRECTION OF TRAFFIC AT CURB

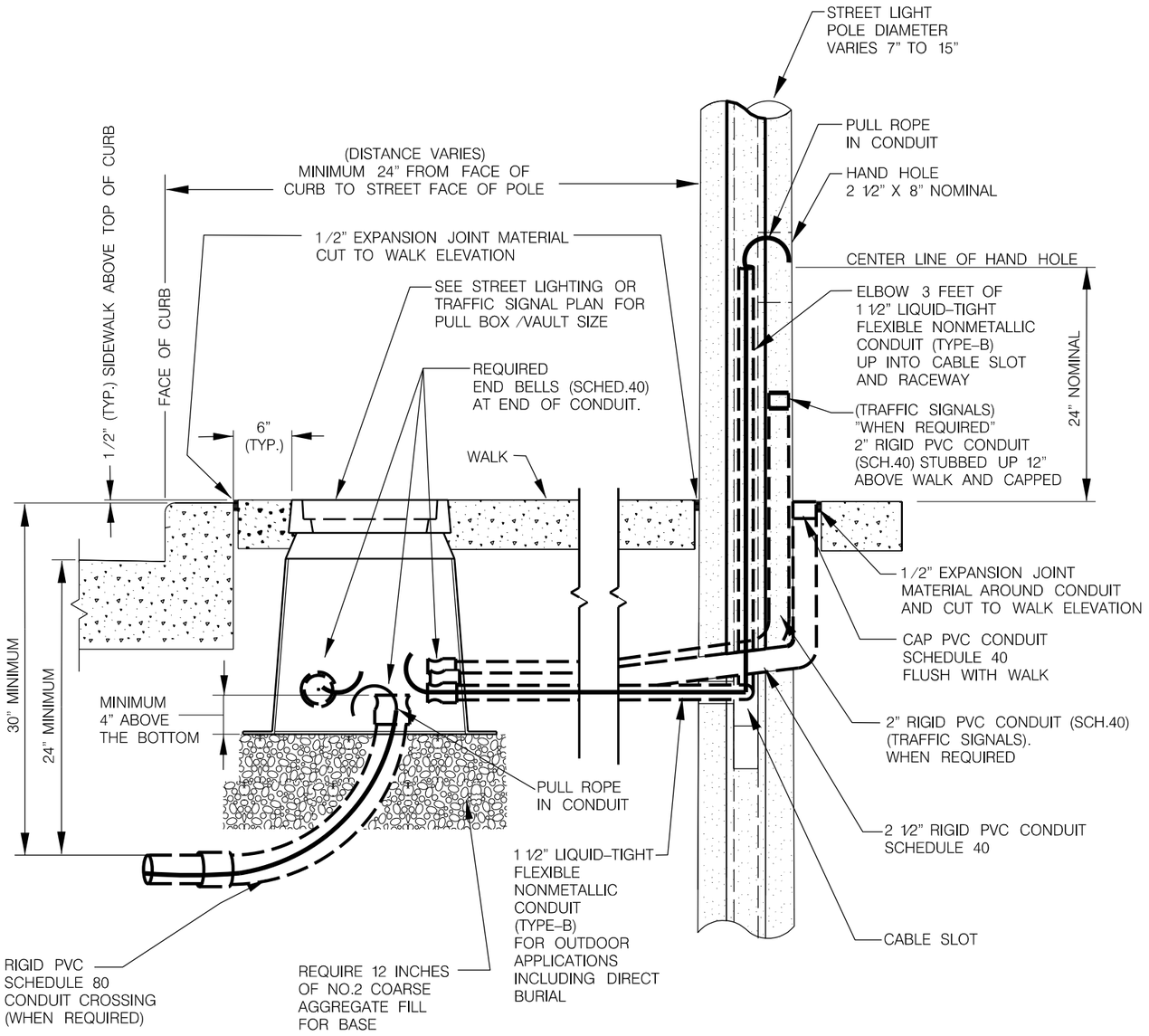
104 DETAIL

TYPICAL TRAFFIC SIGNAL RISER AND STREET LIGHTING CONDUIT LOCATIONS ON LIGHT POLES DEPENDING ON DIRECTION OF TRAFFIC AT CURB

NOT TO SCALE

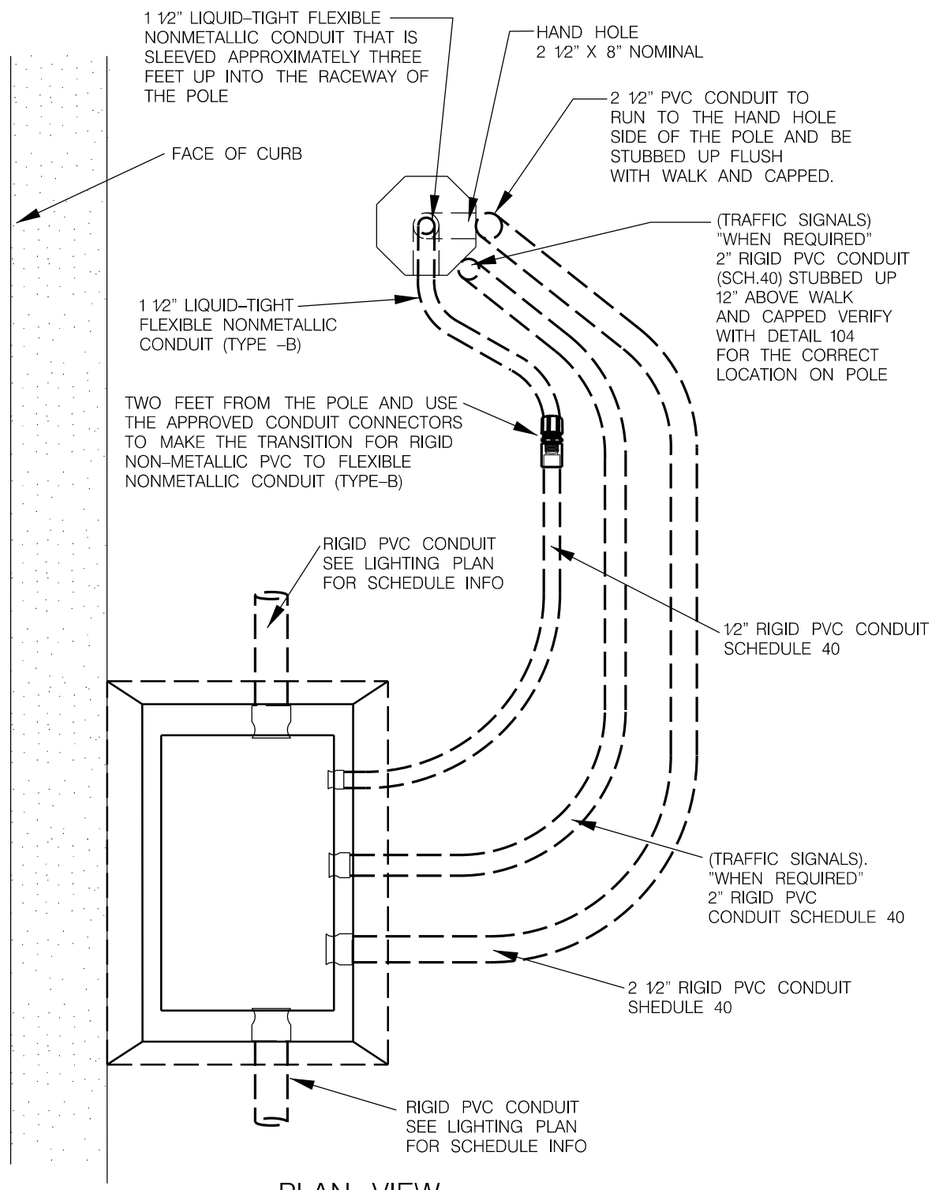
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC / STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2



SECTION VIEW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

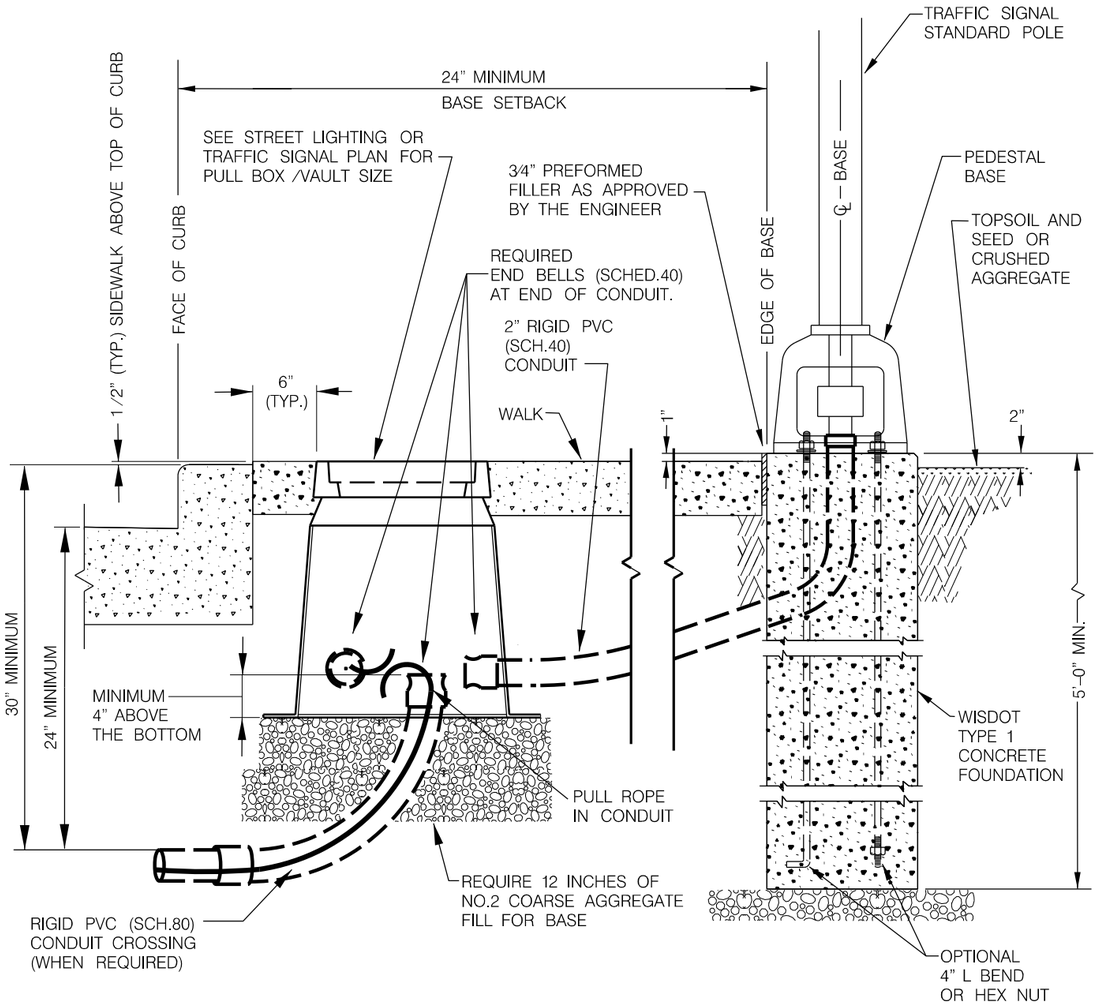
2

108A DETAIL VERSION

TYPICAL CONDUIT INSTALLATION FROM PULL BOX / VAULT TO POLE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

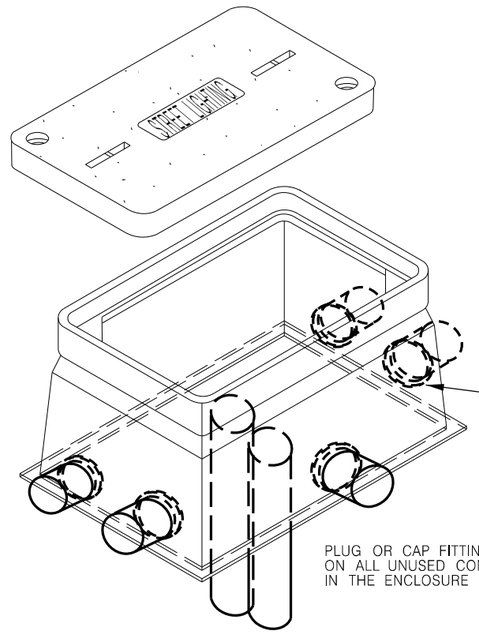


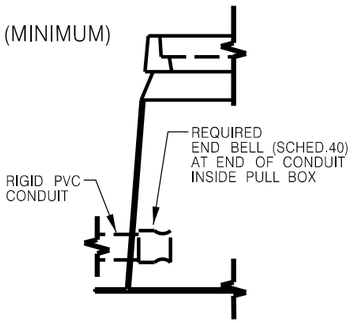
109 DETAIL

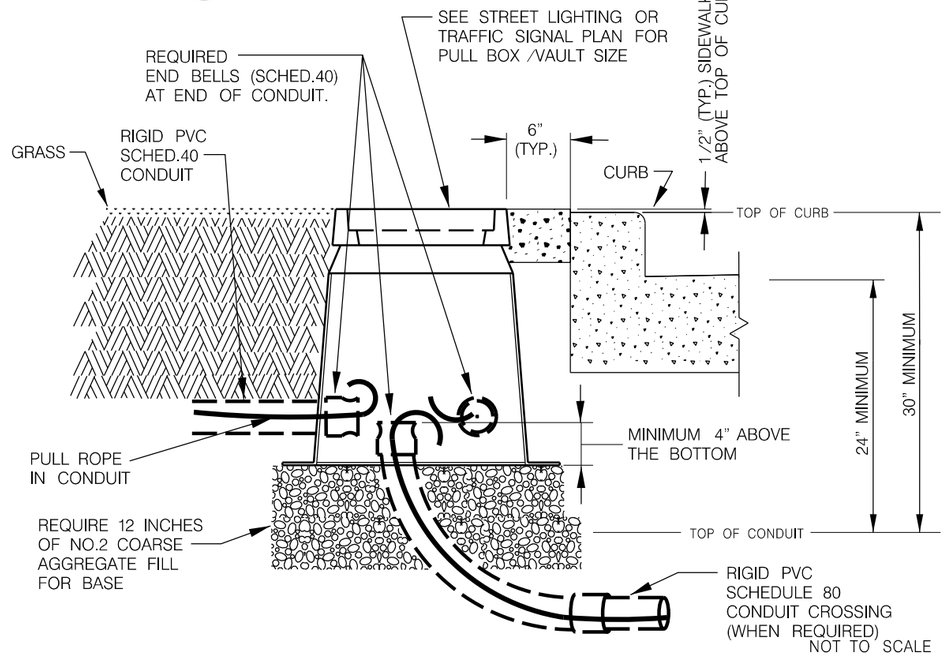
TYPICAL CONDUIT INSTALLATION FROM PULL BOX /VAULT TO SIGNAL STANDARD AND TYPICAL BASE INSTALLATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE







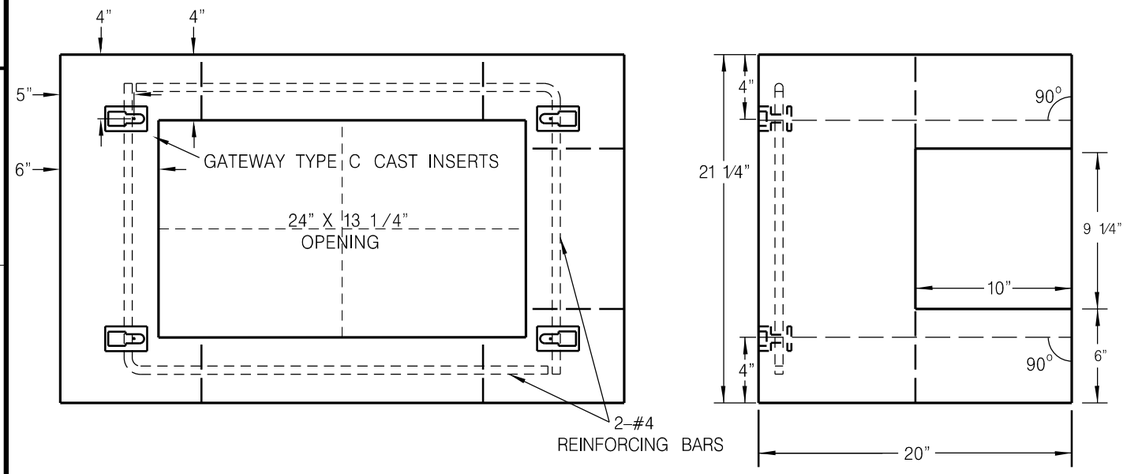
NOT TO SCALE

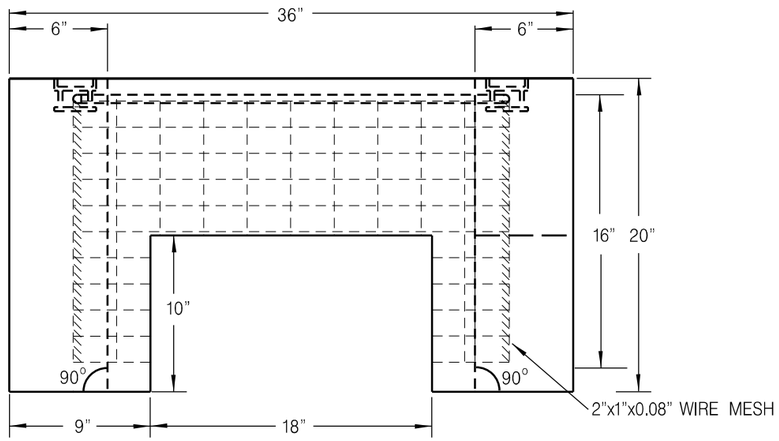
112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE





NOT TO SCALE

6 BAG MIX #1 STONE

COMM. CODE XXXX-XXX				
PRE-CAST CONCRETE FOUNDATION				
TRAFFIC SIGNAL CABINETS P1 AND P2				
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES D.P.W. CITY OF MILWAUKEE				
TRAFFIC CONTROL MATERIAL				
DATE 8-30-16	SCALE N.T.S.	DRAWN JAR/JO	CHECKED SCB	APPROVED JCB
SUPERSEDES	REVISED DATE	DRG.		
SUPERSEDED BY	NEW DRG.	C-16-500-T		

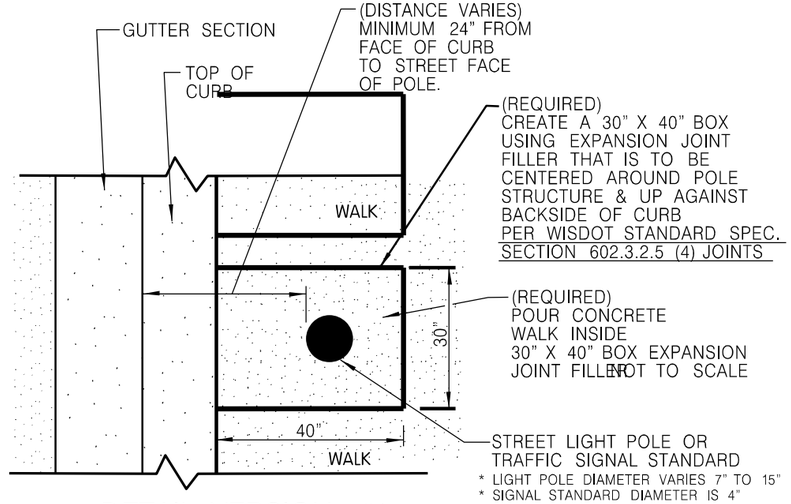
125 DETAIL

TYPICAL TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC SIGNAL FORCES.
CONTACT DISPATCHER AT (414) 286-3687 FOR SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.



122 DETAIL VERSION #1

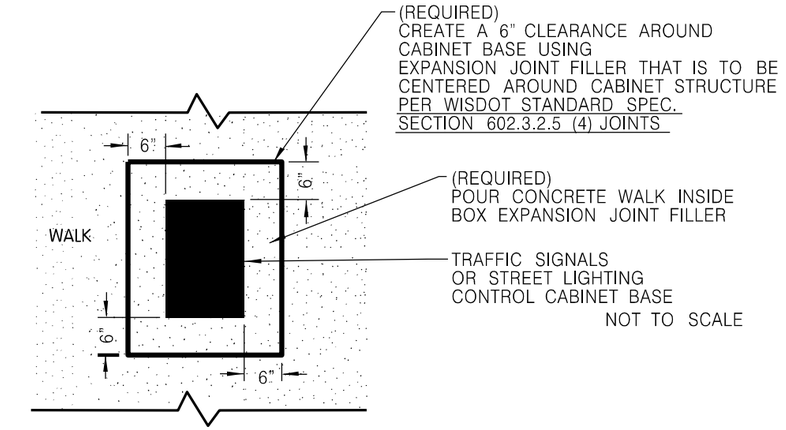
NOT TO SCALE

TYPICAL 30" X 40" BOX EXPANSION JOINT FILLER AROUND STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.



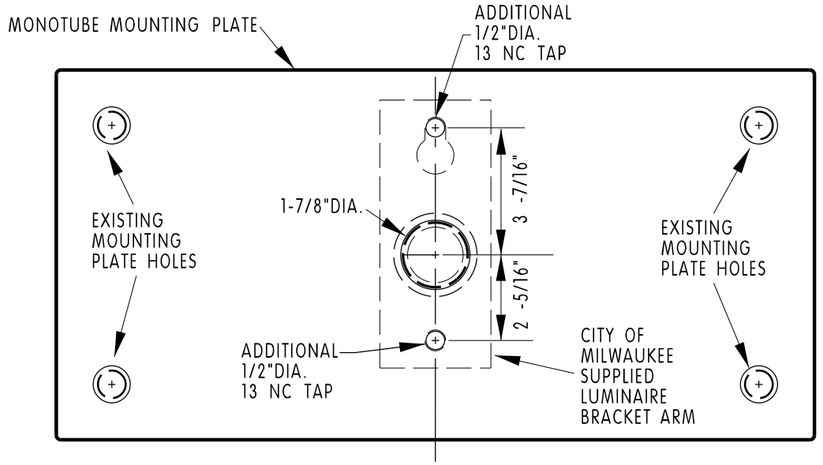
NOT TO SCALE

122 DETAIL VERSION #2

NOT TO SCALE

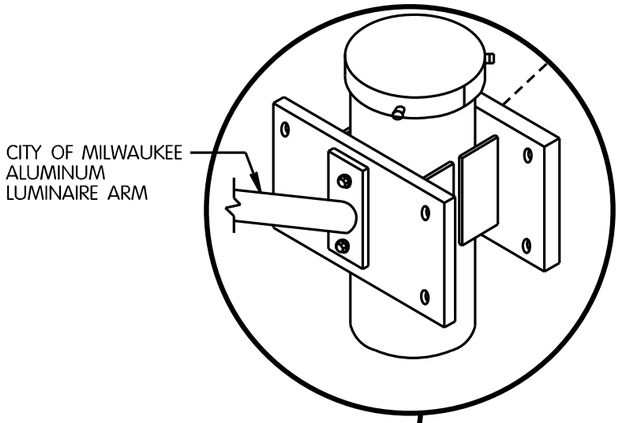
TYPICAL BOX EXPANSION JOINT FILLER AROUND TRAFFIC SIGNAL OR STREET LIGHTING CONTROL CABINET

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

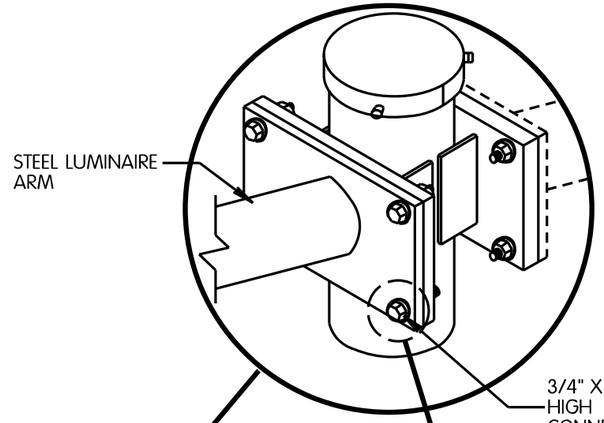


ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE

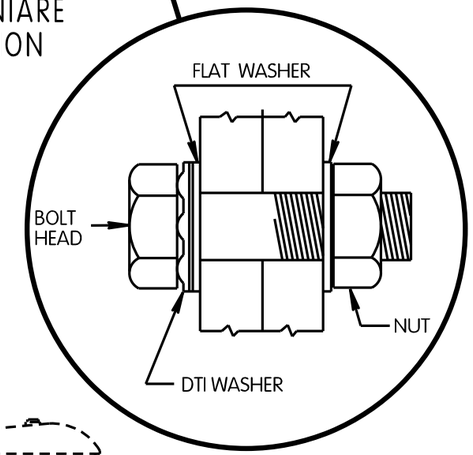
NOT TO SCALE



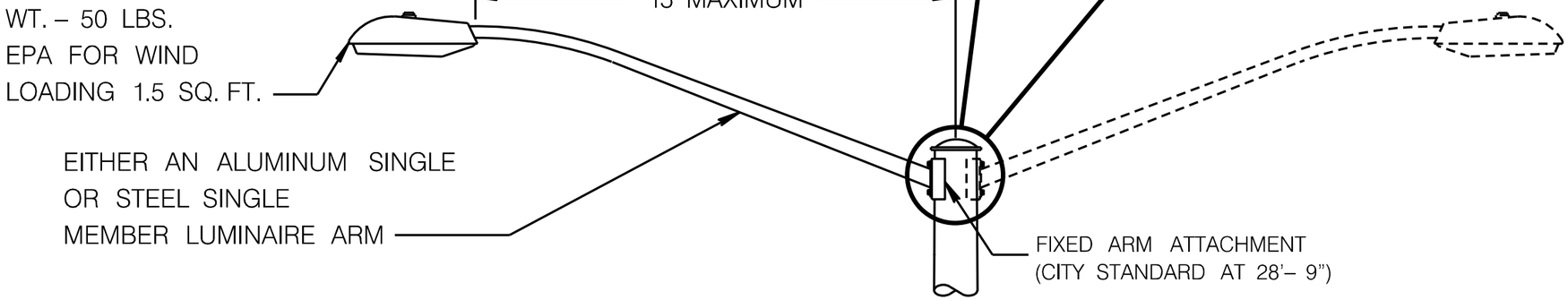
ALUMINUM LUMINIARE ARM OPTION



STEEL LUMINIARE ARM OPTION



RECOMMENDED BOLT ASSEMBLY DETAIL

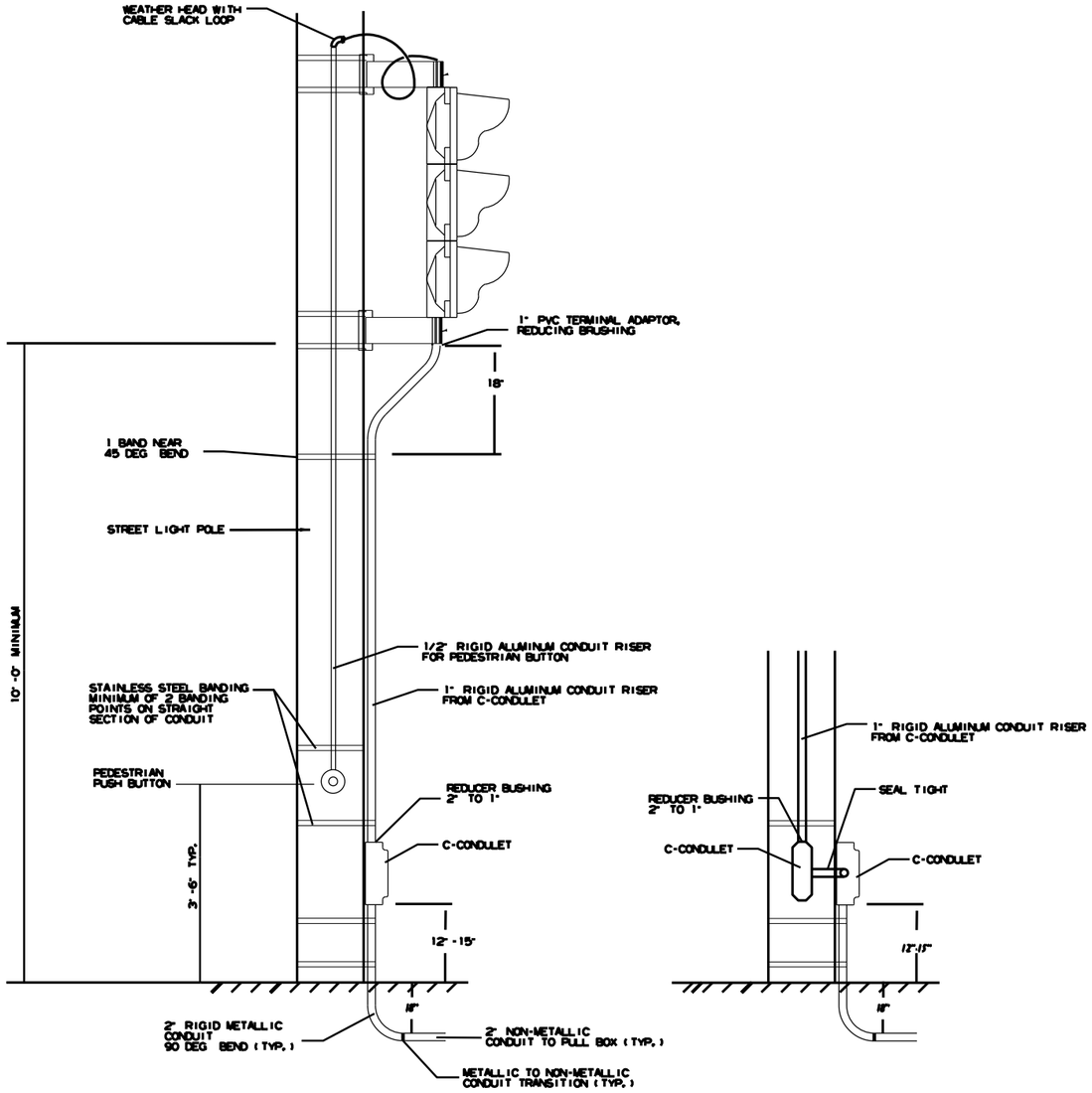


ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE FOR

POLES: TYPE 10
TYPE 10 SPECIAL
TYPE 13

NOT TO SCALE

2



OPTION 1

OPTION 2

ELECTRICAL RISER

NTS

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

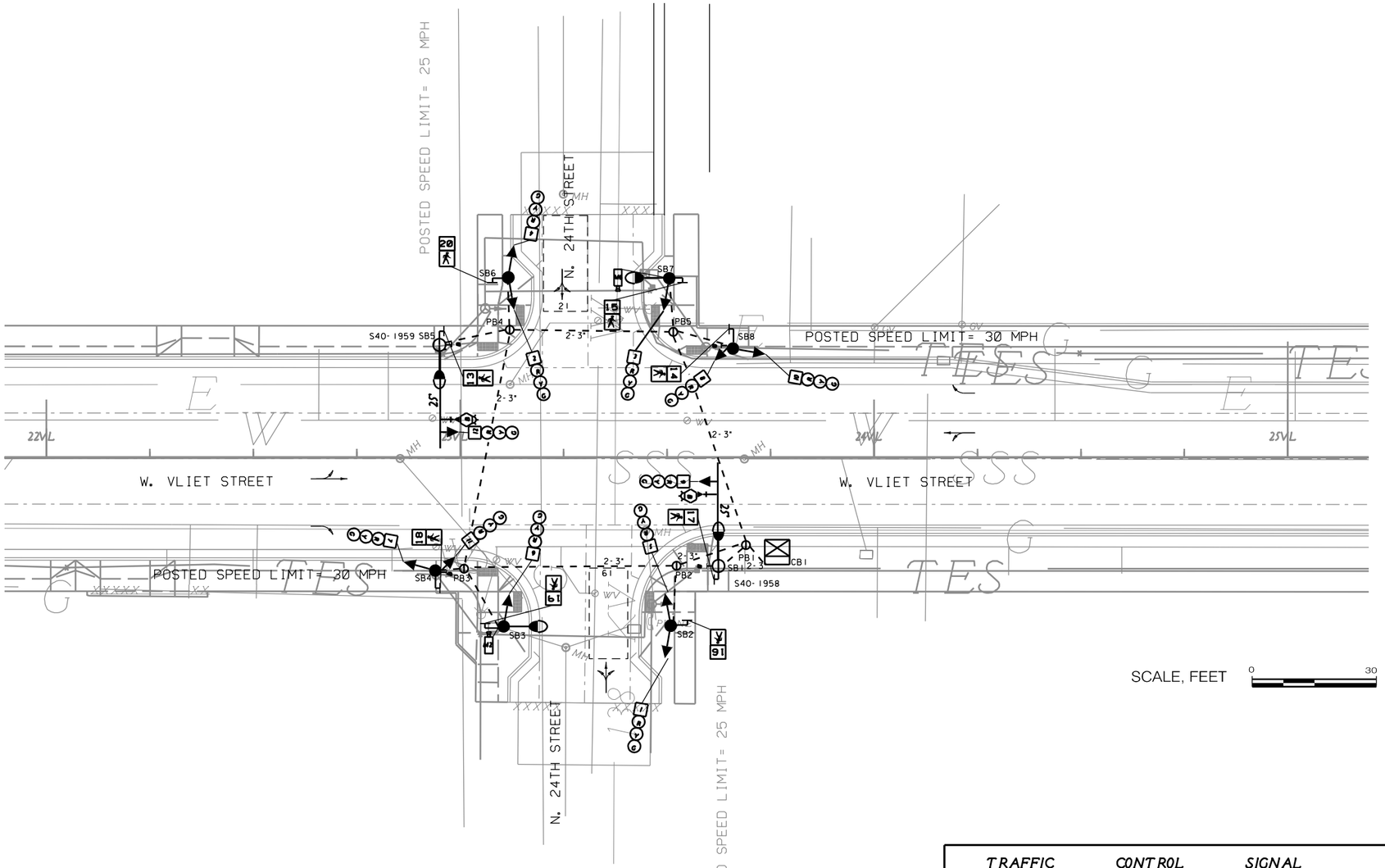
ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL

N

LEGEND

- SERVICE POLE
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- MONOTUBE BASE, POLE, 35'-55' ARM
- MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- CITY OF MILWAUKEE LUMINAIRE
- CONFIRMATION LIGHT
- MICROWAVE VEHICLE DETECTOR
- VAULT (17"X30"X24")
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" / WALK INDICATOR 12"
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL

W. VLIET ST. & N. 24TH ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO.

REGION CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: KAP
REVISED BY:

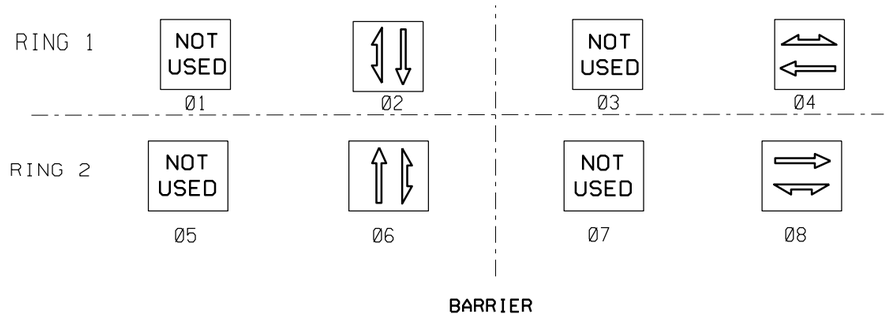
PAGE 1 OF 1

PROJECT NO:2984-00-74	HWY:WEST VLIET STREET	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL PLAN	SHEET OF	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2984-00-93 Vliet 27th to 12th\VLIET STREET.dgn PLOT DATE : 25-MAY-2022 08:18 PLOT BY : Kpfeif PLOT NAME : PLOT SCALE : 1:29.9999

2

SEQUENCE OF OPERATION



	HEAD NUMBERS	FLASH
Ø1		
Ø2	4, 5, 6	R
Ø3		
Ø4	10, 11, 12	Y
Ø5		
Ø6	1, 2, 3	R
Ø7		
Ø8	7, 8, 9	Y
Ø2P	19, 20	
Ø4P	13, 14	
Ø6P	15, 16	
Ø8P	17, 18	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR		21		61				
CALLED PHASE		2		6				
CALL OPTION		X		X				
DELAY TIME								
EXTENTION OPTION		X		X				
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	x
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	CHANNEL A	CHANNEL B
MOVEMENT		← →
PHASE		4·8

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	x
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S.
SIGNAL SYSTEM *:	SS.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6		X
3				
4	X	8	PED.	X
5				
6		2		X
7				
8	X	4	PED.	X

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE LIGHTING CABINET	x

W. VLIET ST. & N. 24TH ST.
MILWAUKEE COUNTY

SIGNAL NO.

CONTROLLER TYPE: ECONOLITE

DATE PAGE NO. OF

PROJECT NO: 2984-00-74	HWY: WEST VLIET STREET	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET 170	E

PROJECT ID:	2984-00-74
INTERSECTION:	W. VLIET ST. & N. 24TH ST.

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: 5/10/2022

CB TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		15	9	8	RED	ORG	GRN							
			17	8							BLU	BLK		
			BUTTON	6									WHT/BLK	
SB2		15	1	6	RED	ORG	GRN							
			5	2	RED/BLK	ORG/BLK	GRN/BLK							
			16	6							BLU	BLK		
SB3		12	6	2	RED	ORG	GRN							
			19	2							BLU	BLK		
SB4		15	7	8	RED	ORG	GRN							
			11	4	RED/BLK	ORG/BLK	GRN/BLK							
			18	8							BLU	BLK		
			BUTTON	2									WHT/BLK	
SB5		15	12	4	RED	ORG	GRN							
			13	4							BLU	BLK		
			BUTTON	2									WHT/BLK	
SB6		15	2	6	RED	ORG	GRN							
			4	2	RED/BLK	ORG/BLK	GRN/BLK							
			20	2							BLU	BLK		
SB7		12	3	6	RED	ORG	GRN							
			15	6							BLU	BLK		
SB8		15	8	8	RED	ORG	GRN							
			10	4	RED/BLK	ORG/BLK	GRN/BLK							
			14	4							BLU	BLK		
			BUTTON	6									WHT/BLK	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

EMERGENCY VEHICLE PREEMPTION AND UF 2-12 CONFIRMATION	
FROM	TO
CB1	SB1
SB1	HEAD 'B'
CB1	SB5
SB5	HEAD 'B'

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

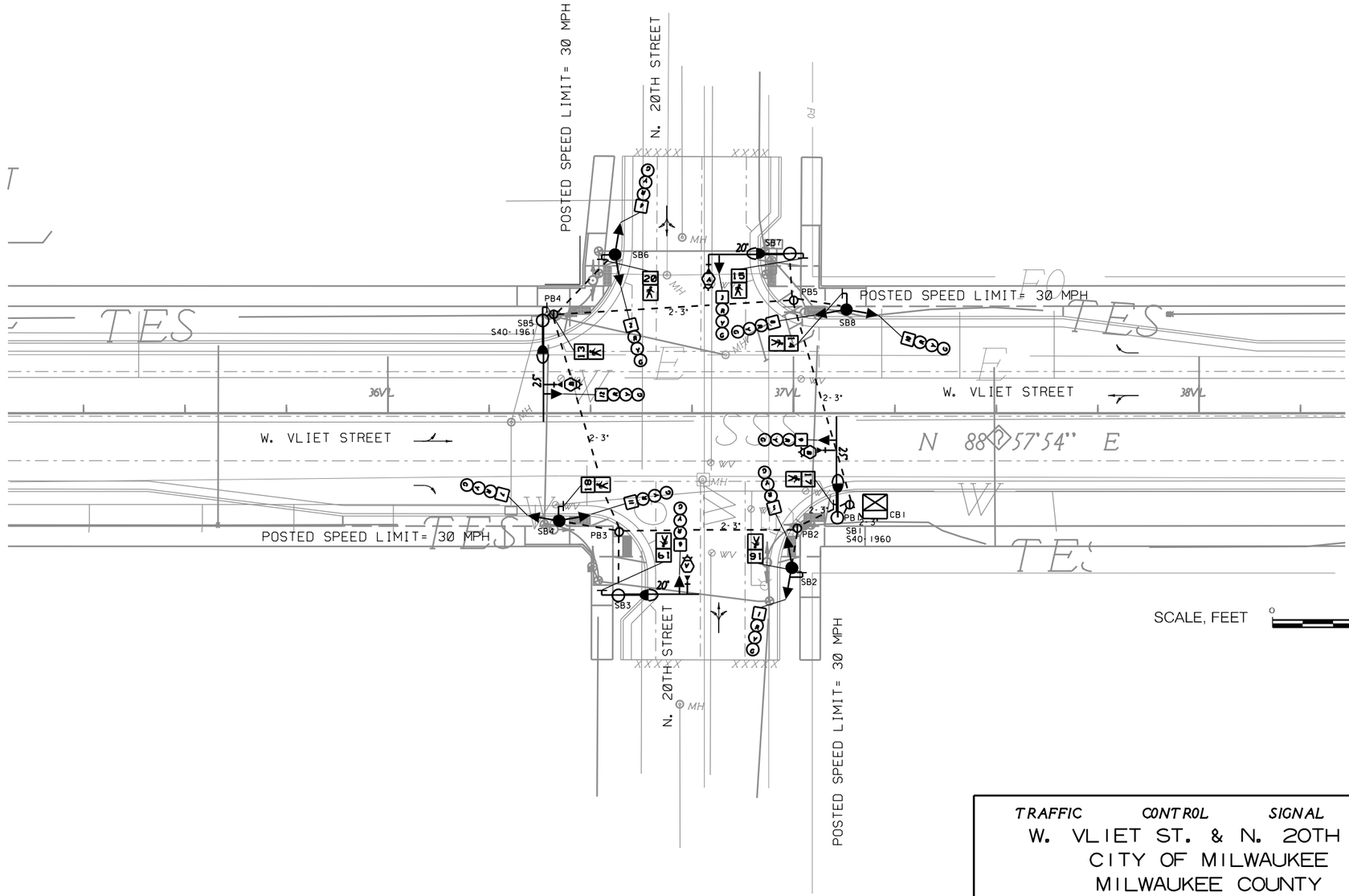
SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL

N



LEGEND

- SERVICE POLE
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- MONOTUBE BASE, POLE, 35'-55' ARM
- MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- CITY OF MILWAUKEE LUMINAIRE
- CONFIRMATION LIGHT
- MICROWAVE VEHICLE DETECTOR
- VAULT (17' X30' X24')
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

W. VLIET ST. & N. 20TH ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO.

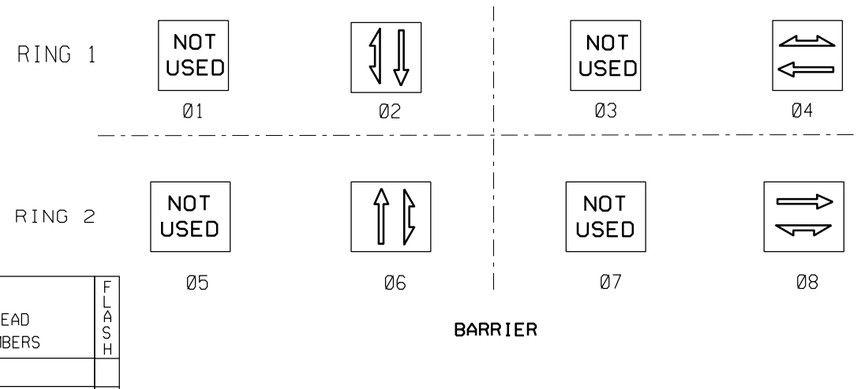
REGION CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: KAP
REVISED BY:

PAGE 1 OF 1

PROJECT NO:2984-00-74	HWY:WEST VLIET STREET	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL PLAN	SHEET OF 172	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2984-00-93 Vliet 27th to 12th\VLIET STREET.dgn
PLOT DATE : 25-MAY-2022 08:20
PLOT BY : Kpfeif
PLOT NAME :
PLOT SCALE : 1:29.9999
WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION



	HEAD NUMBERS	FLASH
Ø1		
Ø2	4, 5, 6	R
Ø3		
Ø4	10, 11, 12	Y
Ø5		
Ø6	1, 2, 3	R
Ø7		
Ø8	7, 8, 9	Y
Ø2P	19, 20	
Ø4P	13, 14	
Ø6P	15, 16	
Ø8P	17, 18	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	x
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	CHANNEL A	CHANNEL B
MOVEMENT	↓↑	← →
PHASE	2-6	4-8

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	PED.	X
3				
4		8	PED.	X
5				
6	X	2	PED.	X
7				
8		4	PED.	X

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	x
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S.
SIGNAL SYSTEM *:	SS. .

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE LIGHTING CABINET	x

W. VLIET ST. & N. 20TH ST.
MILWAUKEE COUNTY

SIGNAL NO.

CONTROLLER TYPE: ECONOLITE

DATE PAGE NO. OF

PROJECT NO: 2984-00-74	HWY: WEST VLIET STREET	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET 173	E

PROJECT ID:	2984-00-74
INTERSECTION:	W. VLIET ST. & N. 20TH ST.

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: 2/28/2022

CB TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	9	8	RED	ORG	GRN							
			17	8							BLU	BLK		
SB2		15	1	6	RED	ORG	GRN							
			5	2	RED/BLK	ORG/BLK	GRN/BLK							
			16	6							BLU	BLK		
SB3		12	6	2	RED	ORG	GRN							
			19	2							BLU	BLK		
SB4		15	7	8	RED	ORG	GRN							
			11	4	RED/BLK	ORG/BLK	GRN/BLK							
			18	8							BLU	BLK		
SB5		12	12	4	RED	ORG	GRN							
			13	4							BLU	BLK		
SB6		15	2	6	RED	ORG	GRN							
			4	2	RED/BLK	ORG/BLK	GRN/BLK							
			20	2							BLU	BLK		
SB7		12	3	6	RED	ORG	GRN							
			15	6							BLU	BLK		
SB8		15	8	8	RED	ORG	GRN							
			10	4	RED/BLK	ORG/BLK	GRN/BLK							
			14	4							BLU	BLK		

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

EMERGENCY VEHICLE PREEMPTION AND UF 2-12 CONFIRMATION	
FROM	TO
CB1	SB3
SB3	HEAD 'A'
CB1	SB7
SB7	HEAD 'A'
CB1	SB1
SB1	HEAD 'B'
CB1	SB5
SB5	HEAD 'B'

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

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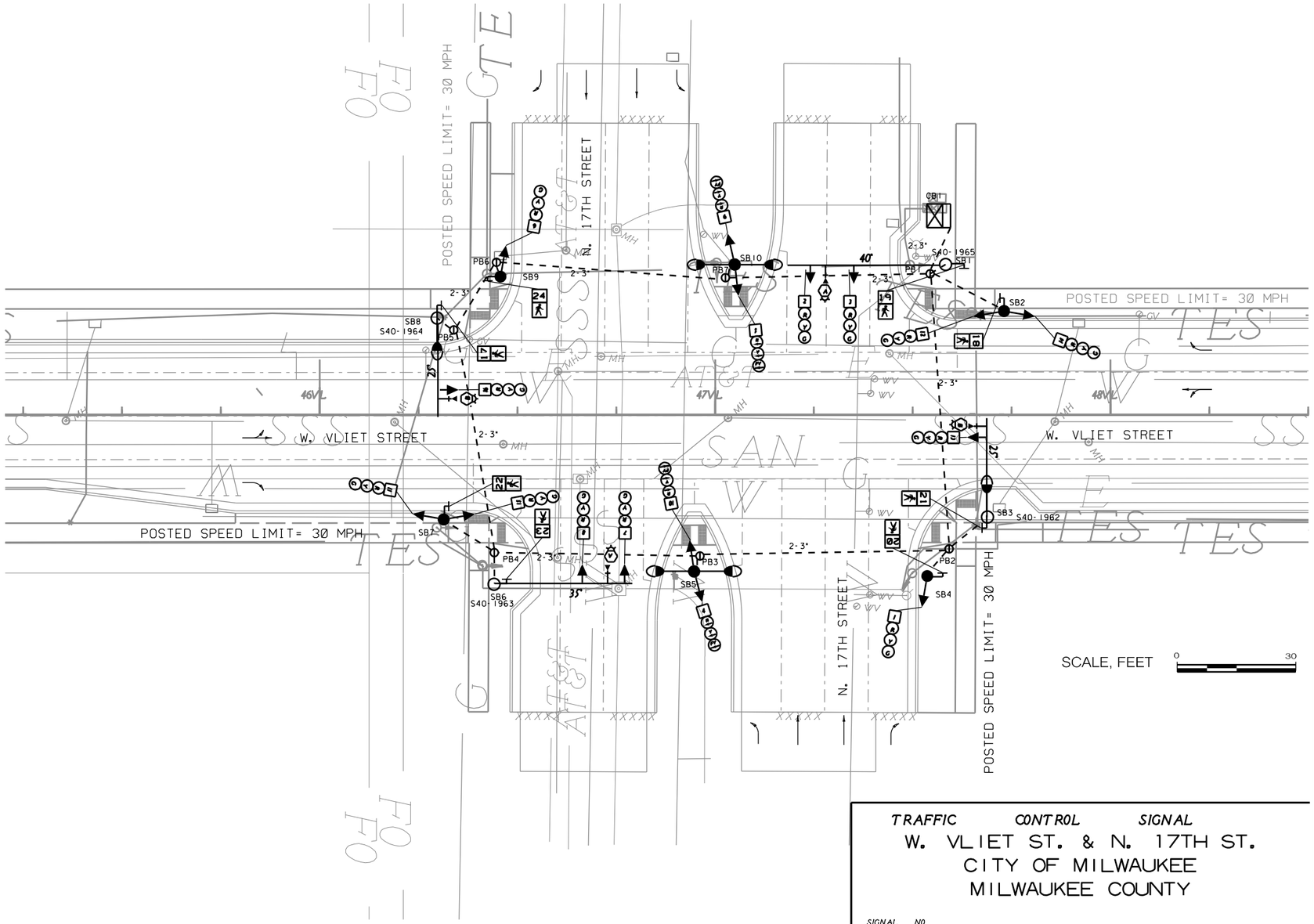
N

LEGEND

- SERVICE POLE
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- MONOTUBE BASE, POLE, 35'-55' ARM
- MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- CITY OF MILWAUKEE LUMINAIRE
- CONFIRMATION LIGHT
- MICROWAVE VEHICLE DETECTOR
- VAULT (17"X30"X24")
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12"
  WALK INDICATOR 12"
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL

W. VLIET ST. & N. 17TH ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO.

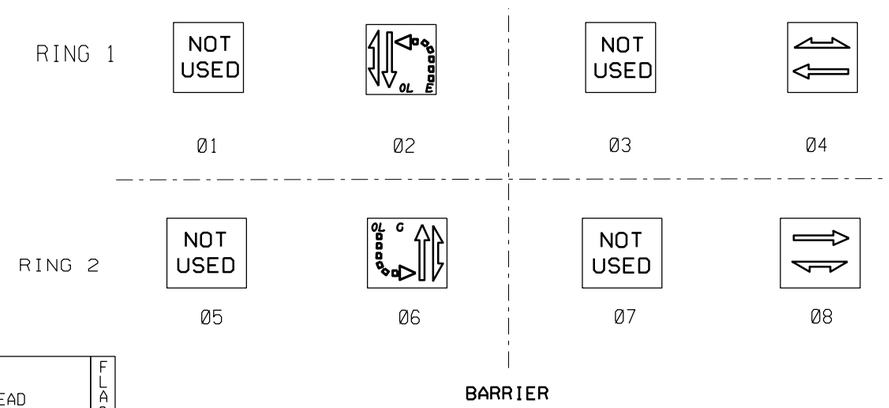
REGION CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: KAP
REVISED BY:

PAGE 1 OF 1

PROJECT NO:2984-00-74	HWY:WEST VLIET STREET	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL PLAN	SHEET OF 175	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2984-00-93 Vliet 27th to 12th\VLIET STREET.dgn
PLOT DATE : 25-MAY-2022 08:20
PLOT BY : Kpfeif
PLOT NAME :
PLOT SCALE : 1:29.9999

SEQUENCE OF OPERATION



	HEAD NUMBERS	FLASH
OLE	4, 5	R
Ø2	6, 7, 8	R
Ø3		
Ø4	14, 15, 16	R
OLG	9, 10	R
Ø6	1, 2, 3	R
Ø7		
Ø8	11, 12, 13	R
Ø2P	23, 24	
Ø4P	17, 18	
Ø6P	19, 20	
Ø8P	21, 22	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	x
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	CHANNEL A	CHANNEL B
MOVEMENT	↓↑	← →
PHASE	2-6	4-8

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	PED.	X
3				
4		8	PED.	X
5				
6	X	2	PED.	X
7				
8		4	PED.	X

OVERLAPS

OL "E" NORTHBOUND FYA
OL "G" SOUTHBOUND FYA

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	x
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S.	
SIGNAL SYSTEM *: SS. .	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE LIGHTING CABINET	x

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

W. VLIET ST. & N. 17TH ST.
MILWAUKEE COUNTY

SIGNAL NO.

CONTROLLER TYPE: ECONOLITE

DATE PAGE NO. OF

PROJECT NO: 2984-00-74 | HWY: WEST VLIET STREET | COUNTY: MILWAUKEE | SEQUENCE OF OPERATIONS | SHEET 176 | E

PROJECT ID:	2984-00-74
INTERSECTION:	W. VLIET ST. & N. 17TH ST.

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: 5/10/2022

CB TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		15	2	6	RED	ORG	GRN							
			3	6	RED/BLK	ORG/BLK	GRN/BLK							
			19	6							BLU	BLK		
SB2		15	12	8	RED	ORG	GRN							
			14	4	RED/BLK	ORG/BLK	GRN/BLK							
			18	4							BLU	BLK		
SB3		12	13	8	RED	ORG	GRN							
			21	8							BLU	BLK		
SB4		15	1	6	RED	ORG	GRN							
			20	6							BLU	BLK		
SB5		12	4	OLE				RED	ORG	GRN				
			10	OLG				RED/BLK	ORG/BLK	GRN/BLK				
SB6		15	7	2	RED	ORG	GRN							
			8	2	RED/BLK	ORG/BLK	GRN/BLK							
			23	2							BLU	BLK		
SB7		15	11	8	RED	ORG	GRN							
			15	4	RED/BLK	ORG/BLK	GRN/BLK							
			22	8							BLU	BLK		
SB8		12	16	4	RED	ORG	GRN							
			17	4							BLU	BLK		
SB9		15	6	2	RED	ORG	GRN							
			24	2							BLU	BLK		
SB10		12	5	OLE				RED	ORG	GRN				
			9	OLG				RED/BLK	ORG/BLK	GRN/BLK				

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
CB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

EMERGENCY VEHICLE PREEMPTION AND UF 2-12 CONFIRMATION	
FROM	TO
CB1	SB1
SB1	HEAD 'A'
CB1	SB6
SB6	HEAD'A'
CB1	SB3
SB3	HEAD 'B'
CB1	SB8
SB8	HEAD 'B'

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

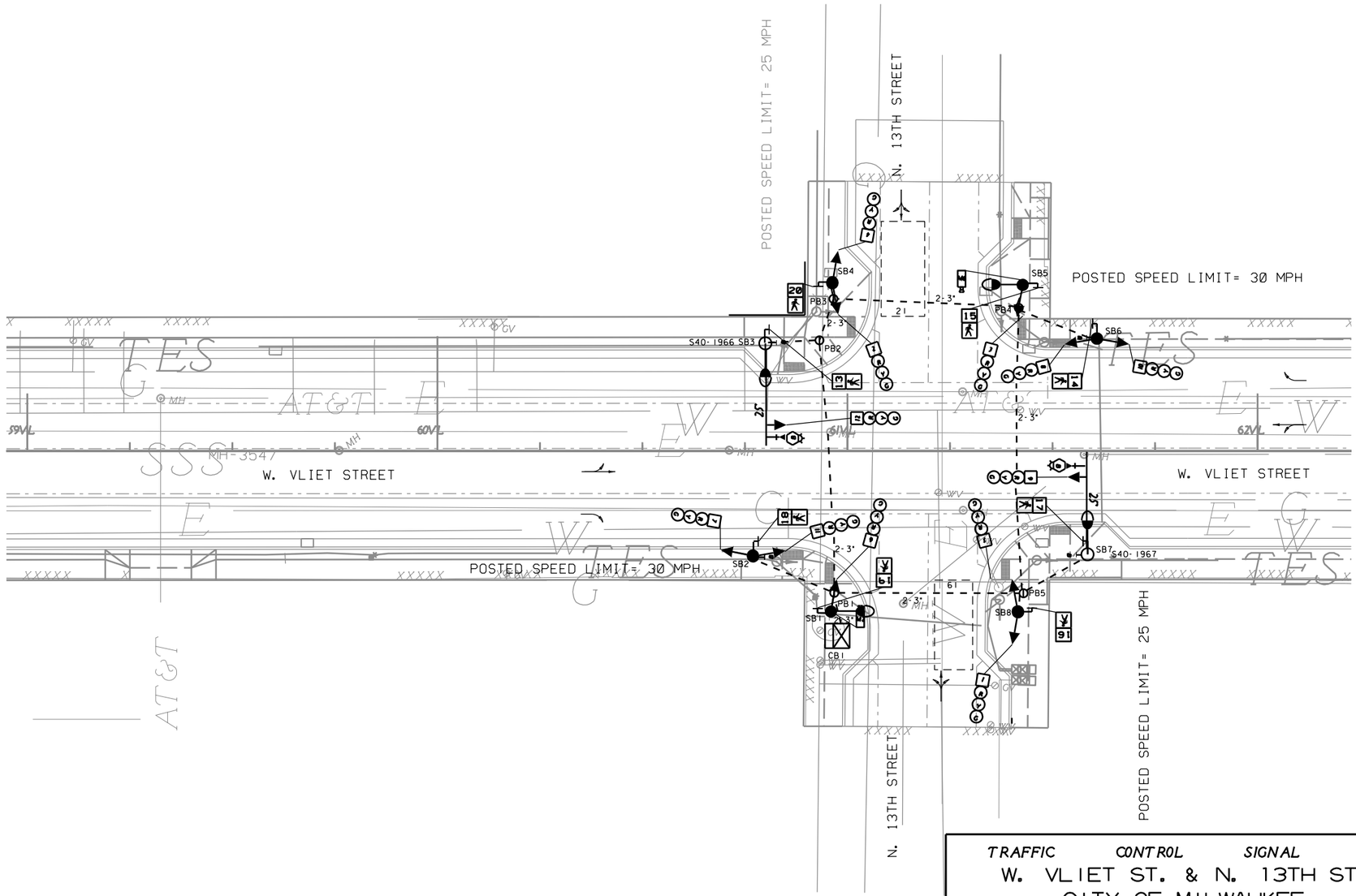
SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL

N



SCALE, FEET 0 30

LEGEND

- SERVICE POLE
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- MONOTUBE BASE, POLE, 35'-55' ARM
- MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- CITY OF MILWAUKEE LUMINAIRE
- CONFIRMATION LIGHT
- MICROWAVE VEHICLE DETECTOR
- VAULT (17" X30" X24")
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- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

W. VLIET ST. & N. 13TH ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO.

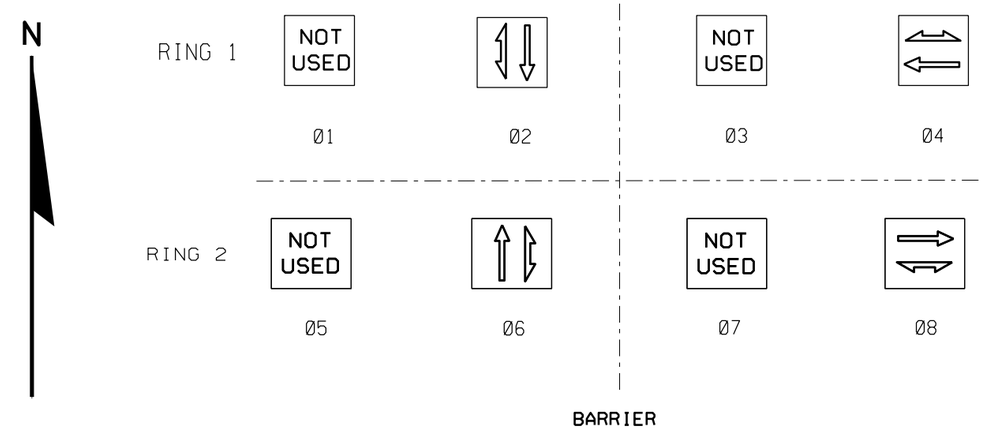
REGION CONTACT: *JOSEPH BLAKEMAN*
DESIGNED BY: KAP
REVISED BY:

PAGE 1 OF 1

PROJECT NO:2984-00-74	HWY:WEST VLIET STREET	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL PLAN	SHEET OF 178	E

2

SEQUENCE OF OPERATION



TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	x
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S.	
SIGNAL SYSTEM #: SS. .	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6		X
3				
4	X	8	PED.	X
5				
6		2		X
7				
8	X	4	PED.	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	x
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	CHANNEL A	CHANNEL B
MOVEMENT		← →
PHASE		4-8

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4, 5, 6	R
Ø3		
Ø4	10, 11, 12	R
Ø5		
Ø6	1, 2, 3	R
Ø7		
Ø8	7, 8, 9	R
Ø2P	19, 20	
Ø4P	13, 14	
Ø6P	15, 16	
Ø8P	17, 18	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR		21		61				
CALLED PHASE		2		6				
CALL OPTION		X		X				
DELAY TIME								
EXTENTION OPTION		X		X				
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE LIGHTING CABINET	x

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

W. VLIET ST. & N. 13TH ST.
MILWAUKEE COUNTY

SIGNAL NO.

CONTROLLER TYPE: ECONOLITE

DATE

PAGE NO. OF

PROJECT NO: 2984-00-74	HWY: WEST VLIET STREET	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET 179	E

PROJECT ID:	2984-00-74
INTERSECTION:	W. VLIET ST. & N. 13TH ST.

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: 2/28/2022

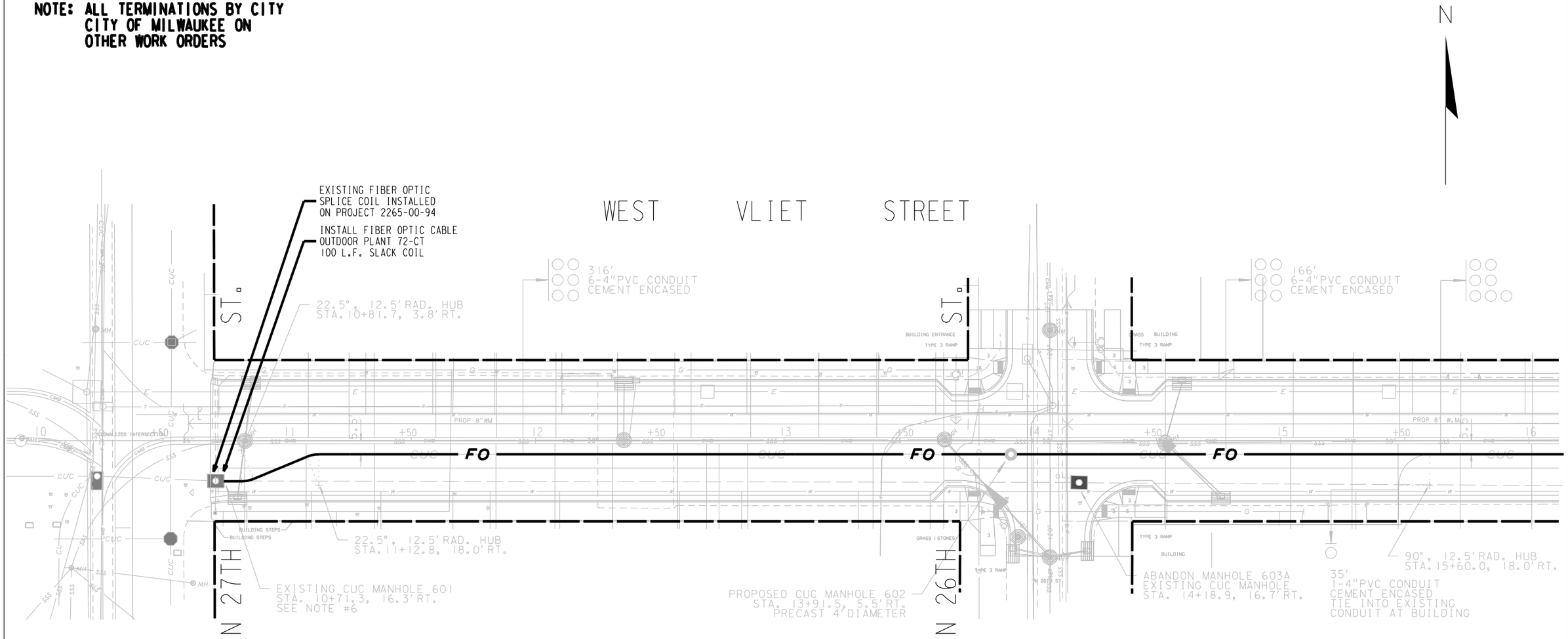
CB TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	6	2	RED	ORG	GRN							
			19	2							BLU	BLK		
SB2		15	7	8	RED	ORG	GRN							
			11	4	RED/BLK	ORG/BLK	GRN/BLK							
			18	8							BLU	BLK		
SB3		12	12	4	RED	ORG	GRN							
			13	4							BLU	BLK		
SB4		15	2	6	RED	ORG	GRN							
			4	2	RED/BLK	ORG/BLK	GRN/BLK							
			20	2							BLU	BLK		
SB5		12	3	6	RED	ORG	GRN							
			15	6							BLU	BLK		
SB6		15	8	8	RED	ORG	GRN							
			10	4	RED/BLK	ORG/BLK	GRN/BLK							
			14	4							BLU	BLK		
SB7		12	9	8	RED	ORG	GRN							
			17	8							BLU	BLK		
SB8		15	1	6	RED	ORG	GRN							
			5	2	RED/BLK	ORG/BLK	GRN/BLK							
			16	6							BLU	BLK		

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

EMERGENCY VEHICLE PREEMPTION AND UF 2-12 CONFIRMATION	
FROM	TO
CB1	SB3
SB3	HEAD 'B'
CB1	SB7
SB7	HEAD 'B'

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——
NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
OTHER WORK ORDERS



NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED TES MANHOLE
	EXISTING TES MANHOLE
— CUC —	EXISTING CONDUIT
— — —	ABANDONED CONDUIT

SHEET 1 OF 10

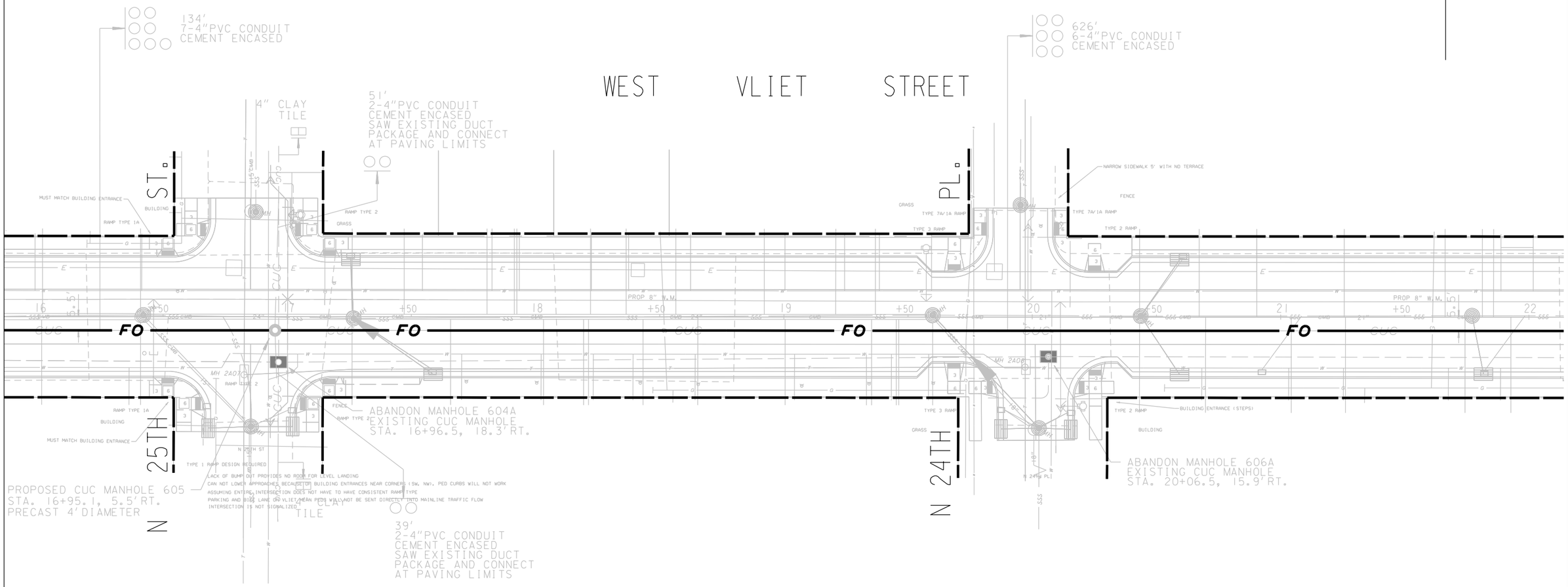
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 181	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
OTHER WORK ORDERS

N



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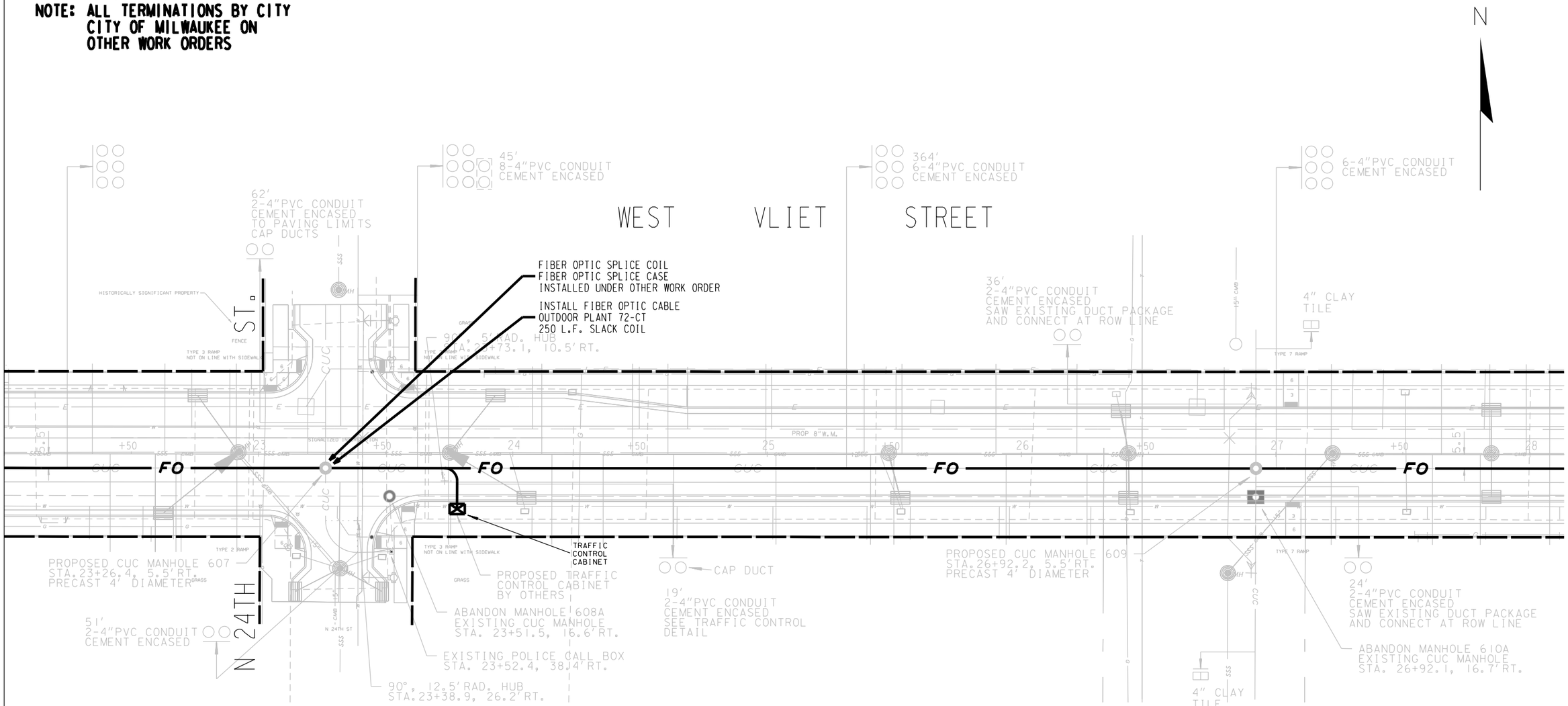
○	PROPOSED TES MANHOLE
■	EXISTING TES MANHOLE
—— cuc ——	EXISTING CONDUIT
— — — -	ABANDONED CONDUIT

SHEET 2 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 182	E

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
OTHER WORK ORDERS



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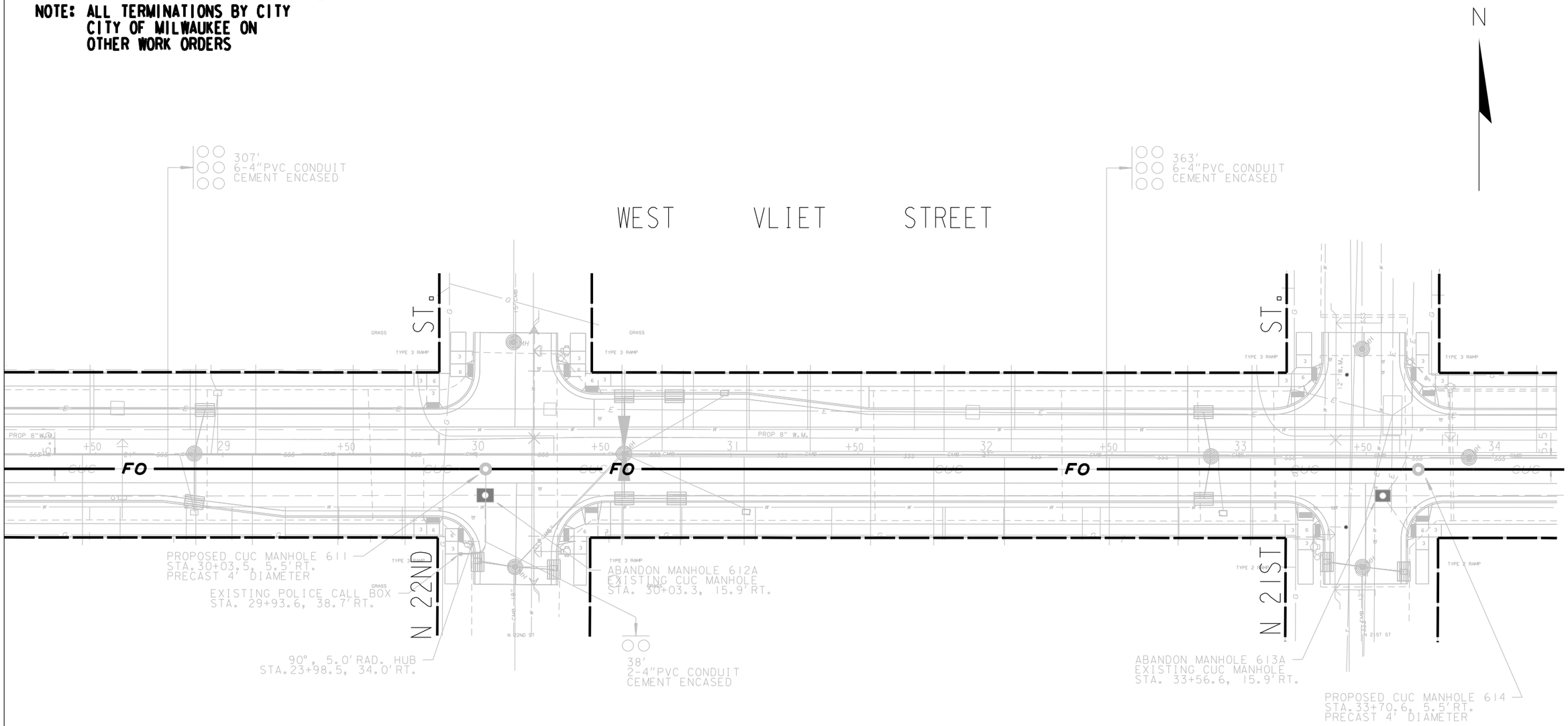
	PROPOSED TES MANHOLE
	EXISTING TES MANHOLE
—— cuc ——	EXISTING CONDUIT
— — — -	ABANDONED CONDUIT

SHEET 3 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 183	E

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
OTHER WORK ORDERS



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	EXISTING TES MANHOLE
— cuc —	EXISTING CONDUIT
— — — -	ABANDONED CONDUIT

SHEET 4 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 184	E

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
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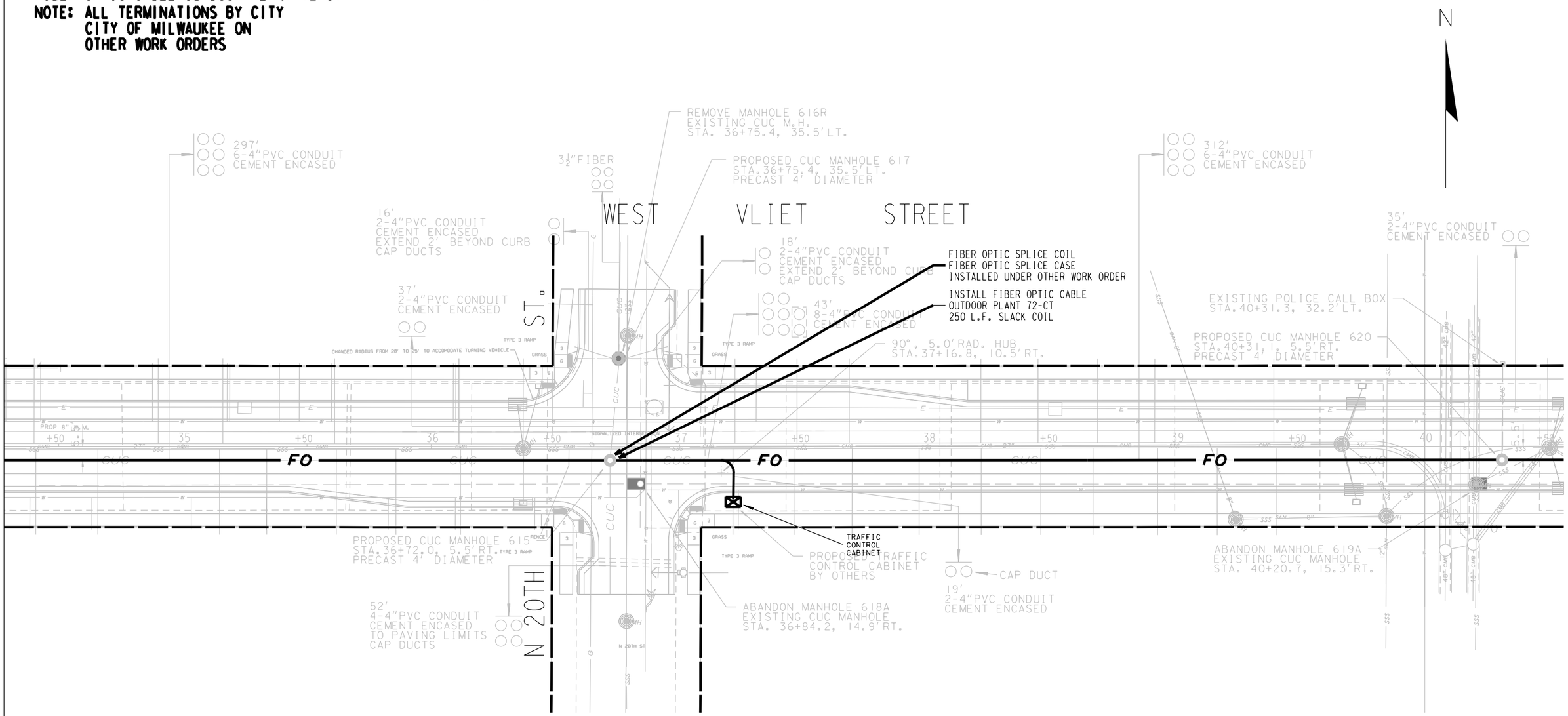

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	EXISTING TES MANHOLE
—— cuc ——	EXISTING CONDUIT
— — — -	ABANDONED CONDUIT

SHEET 5 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 185	E

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
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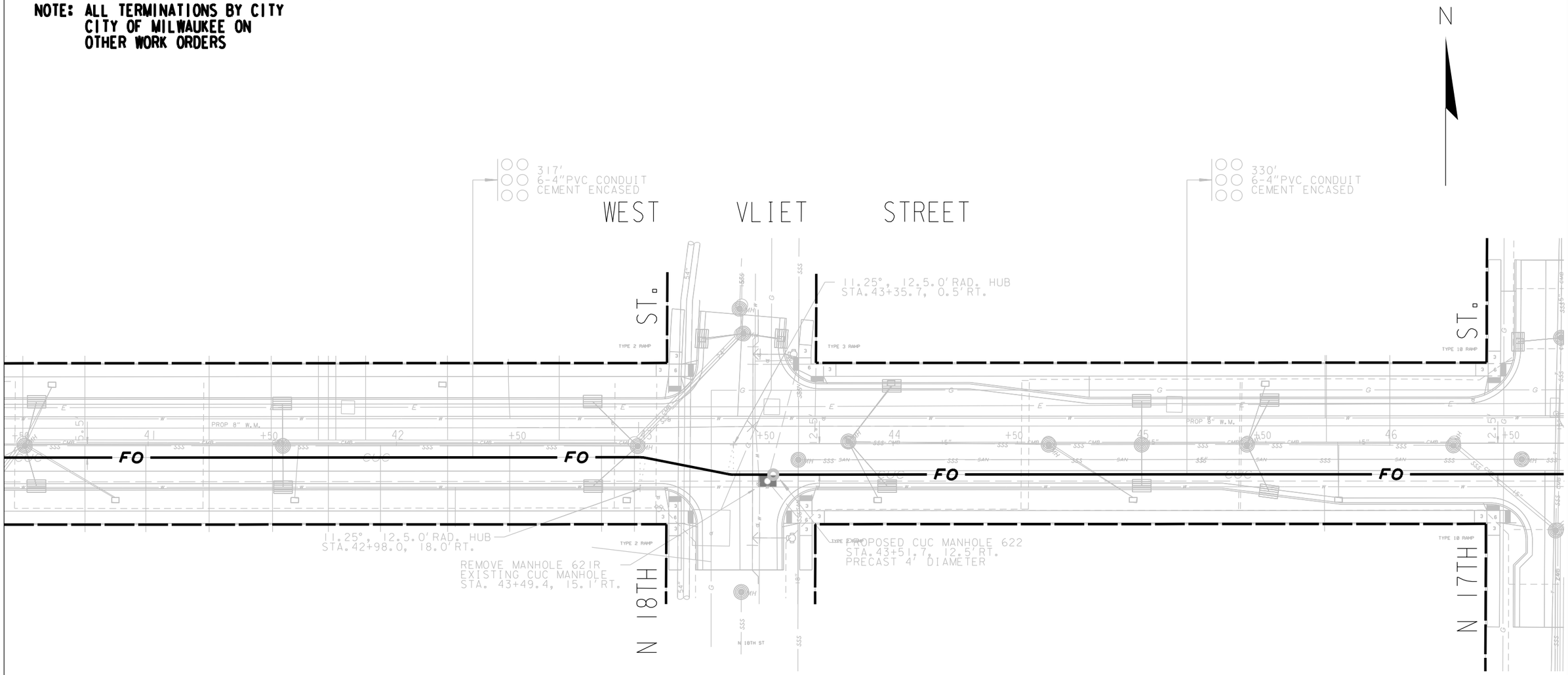

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—— cuc ——	EXISTING CONDUIT
— — — -	ABANDONED CONDUIT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 186	E

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

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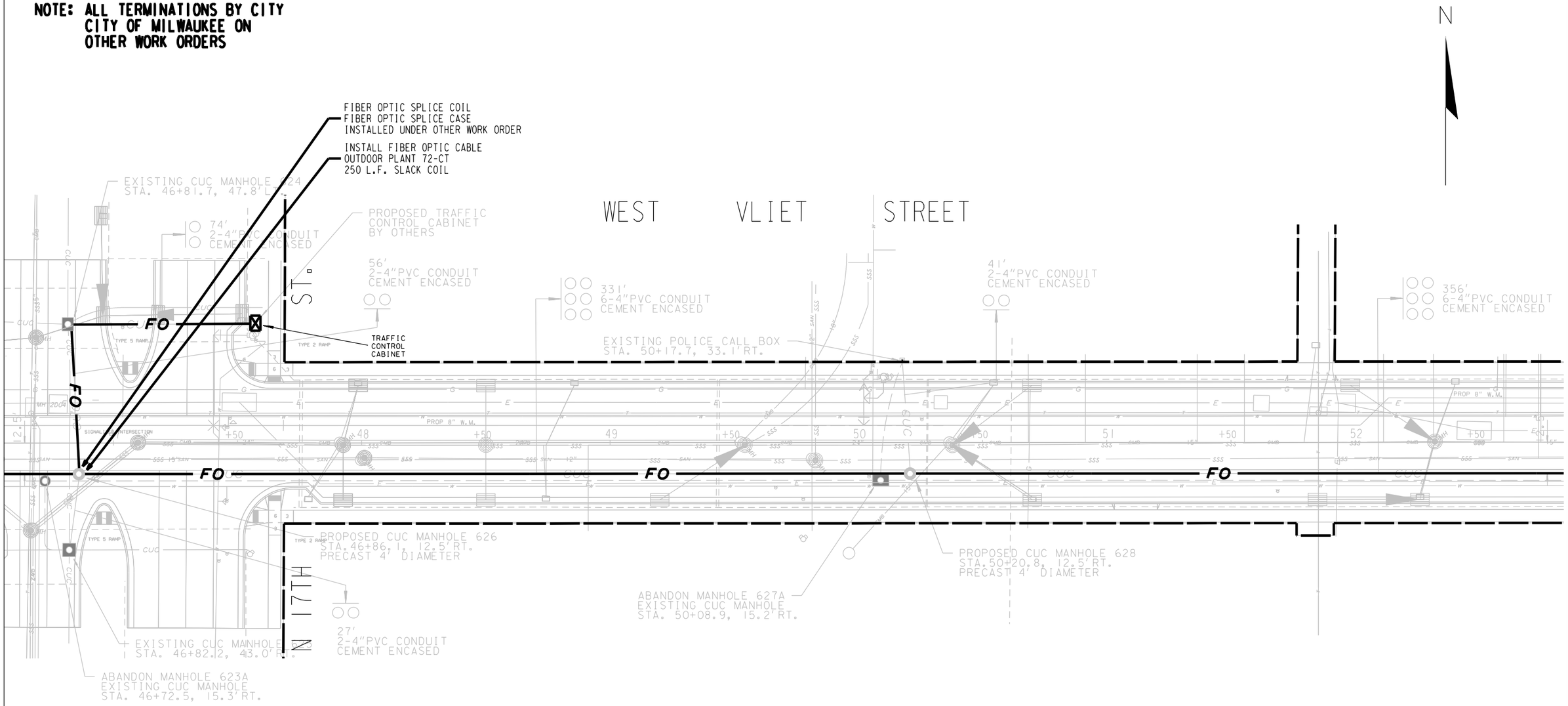

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— — — -	ABANDONED CONDUIT

SHEET 7 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 187	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——
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CITY OF MILWAUKEE ON
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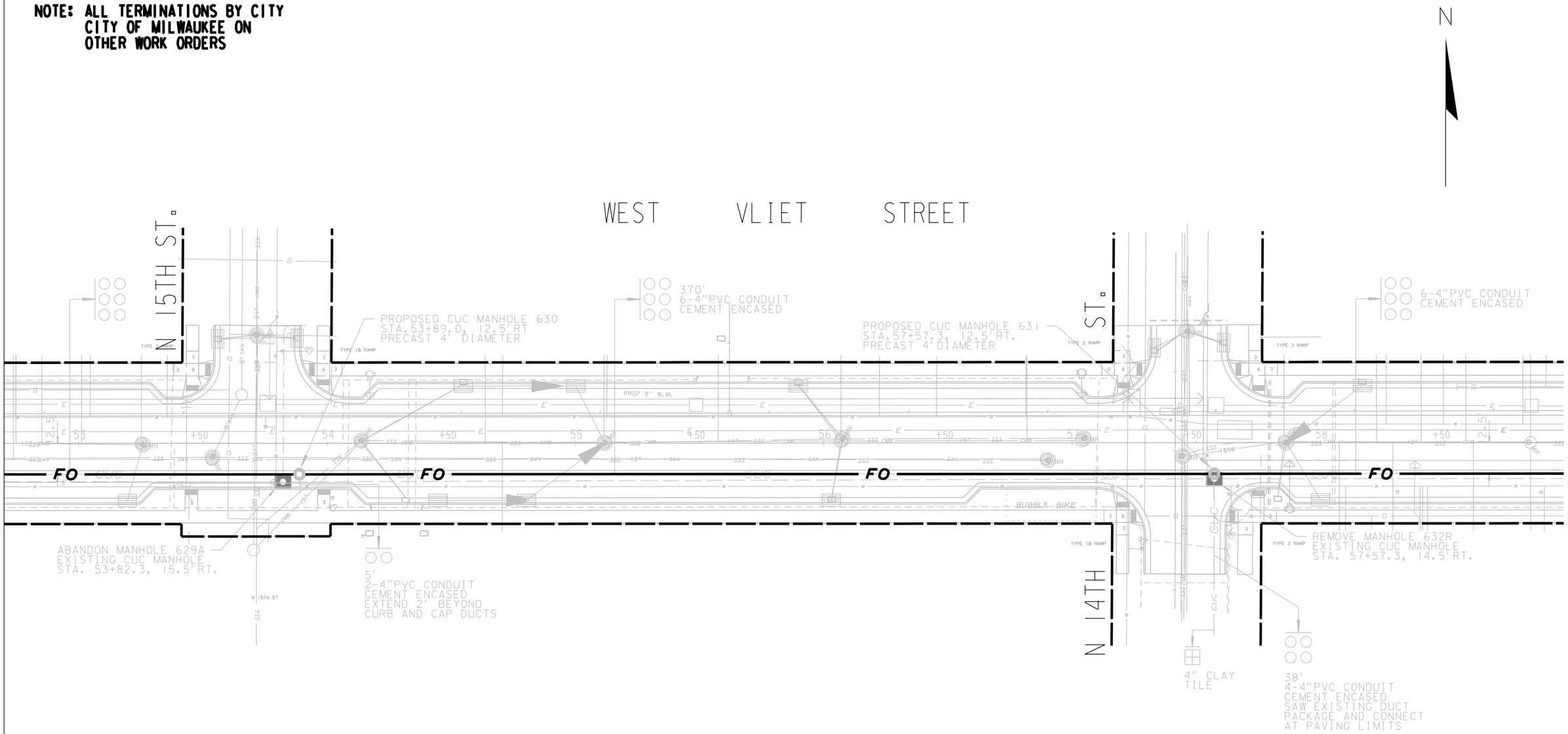

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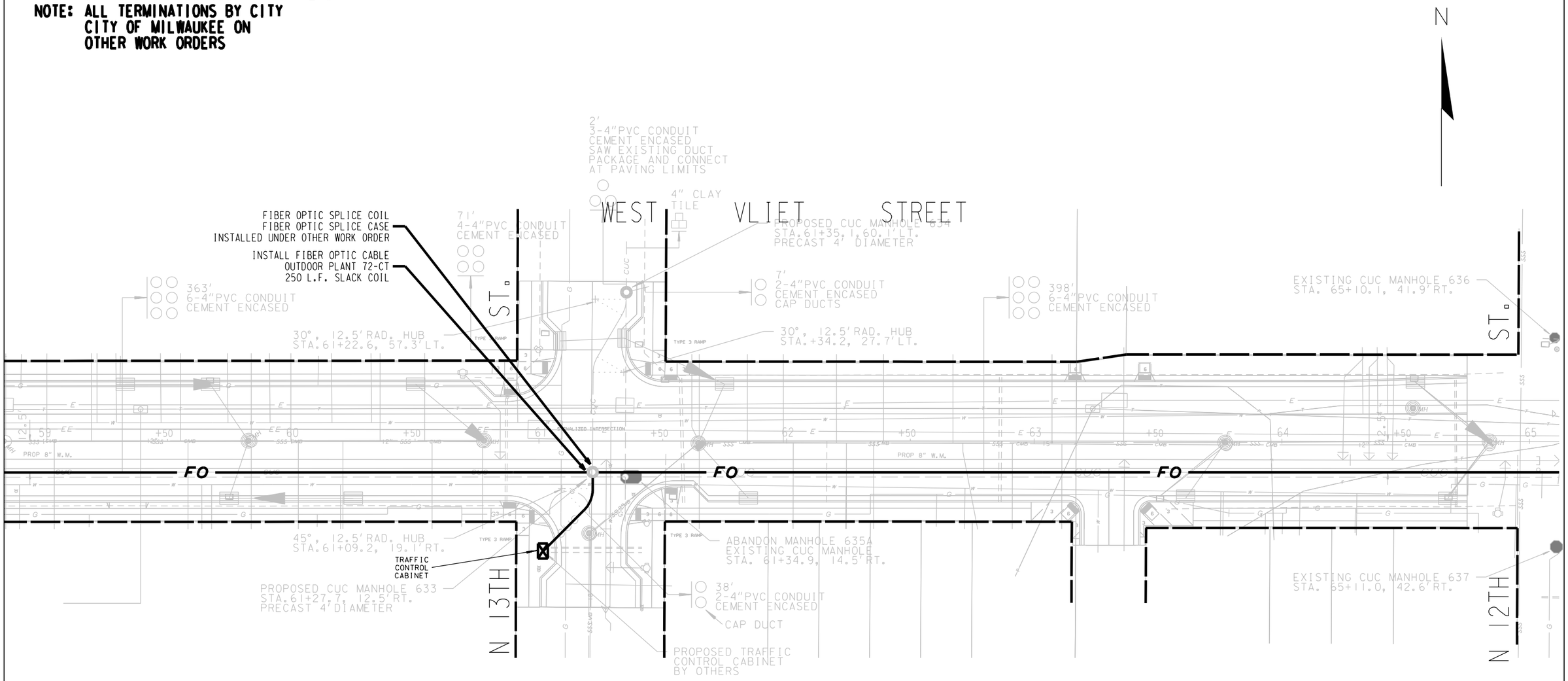
—— CUC ——	EXISTING CONDUIT
—— —— ——	ABANDONED CONDUIT

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 188	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— *FO* ——

NOTE: ALL TERMINATIONS BY CITY CITY OF MILWAUKEE ON OTHER WORK ORDERS



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— — — -	ABANDONED CONDUIT

SHEET 9 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 189	E

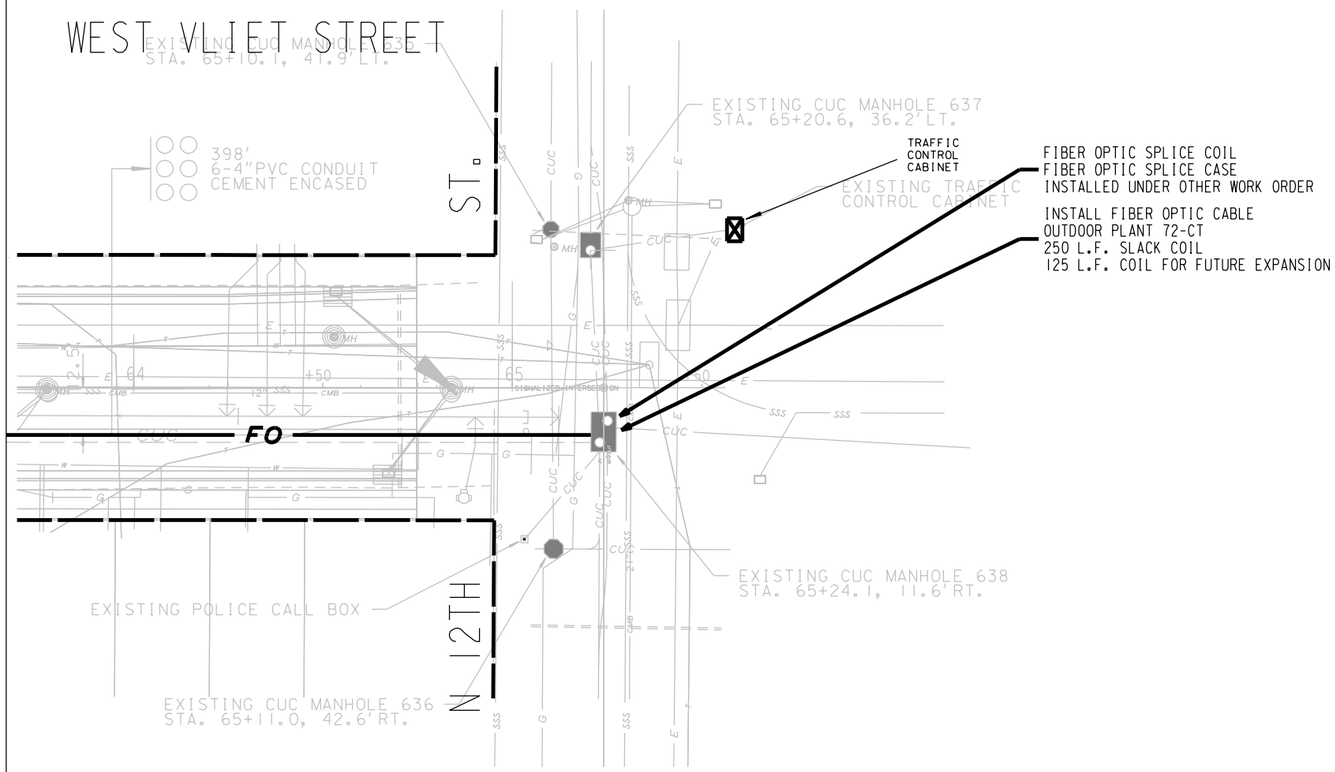
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTE: ALL TERMINATIONS BY CITY
CITY OF MILWAUKEE ON
OTHER WORK ORDERS

N



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SHEET 10 OF 10

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC INTERCONNECT PLAN	SHEET 190	E

2

WEST VLIET STREET

N

316'
6-4"PVC CONDUIT
CEMENT ENCASED

166'
6-4"PVC CONDUIT
CEMENT ENCASED

22.5°, 12.5' RAD. HUB
STA. 10+81.7, 3.8' RT.

22.5°, 12.5' RAD. HUB
STA. 11+12.8, 18.0' RT.

EXISTING CUC MANHOLE 601
STA. 10+71.3, 16.3' RT.
SEE NOTE #6

PROPOSED CUC MANHOLE 602
STA. 13+91.5, 5.5' RT.
PRECAST 4' DIAMETER

ABANDON MANHOLE 603A
EXISTING CUC MANHOLE
STA. 14+18.9, 16.7' RT.

35'
1-4"PVC CONDUIT
CEMENT ENCASED
TIE INTO EXISTING
CONDUIT AT BUILDING

90°, 12.5' RAD. HUB
STA. 15+60.0, 18.0' RT.

N 27TH ST.

N 26TH ST.

PROP 8" W.M.

5.5'

CUC

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●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 1 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 191	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 10-16.DGN

2

WEST VLIET STREET

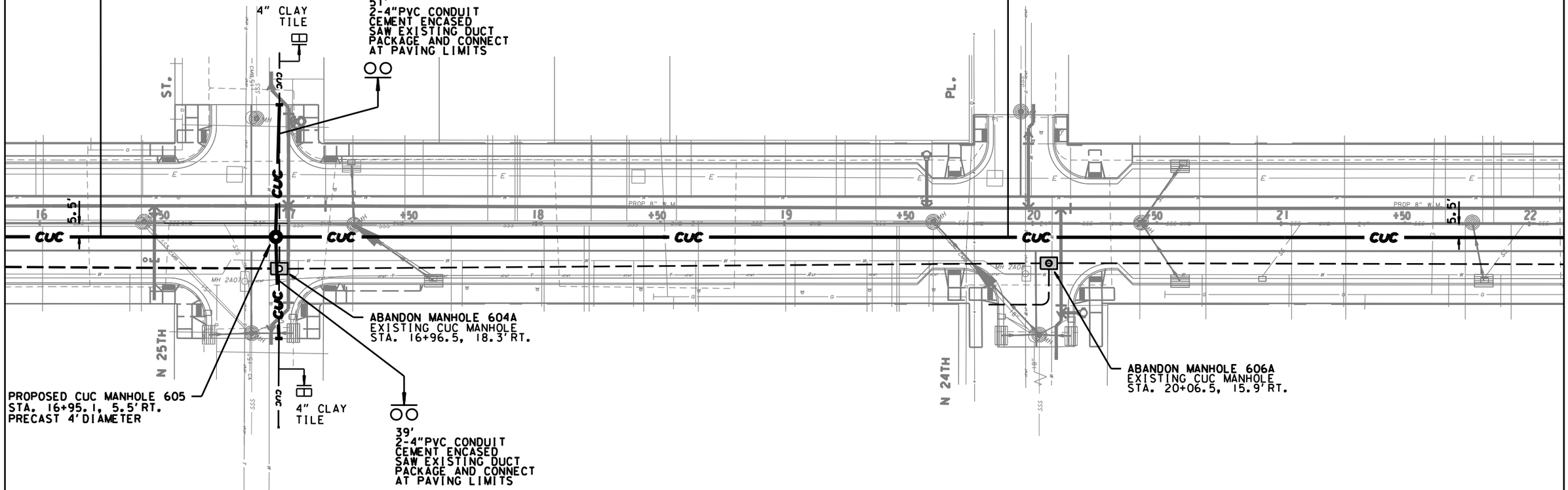
N

134'
7-4"PVC CONDUIT
CEMENT ENCASED

4" CLAY TILE

51'
2-4"PVC CONDUIT
CEMENT ENCASED
SAW EXISTING DUCT
PACKAGE AND CONNECT
AT PAVING LIMITS

626'
6-4"PVC CONDUIT
CEMENT ENCASED



ABANDON MANHOLE 604A
EXISTING CUC MANHOLE
STA. 16+96.5, 18.3'RT.

PROPOSED CUC MANHOLE 605
STA. 16+95.1, 5.5'RT.
PRECAST 4' DIAMETER

4" CLAY TILE

39'
2-4"PVC CONDUIT
CEMENT ENCASED
SAW EXISTING DUCT
PACKAGE AND CONNECT
AT PAVING LIMITS

ABANDON MANHOLE 606A
EXISTING CUC MANHOLE
STA. 20+06.5, 15.9'RT.

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 2 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 192	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 16-22.DGN

2

WEST VLIET STREET

N

62'
2-4"PVC CONDUIT
CEMENT ENCASED
TO PAVING LIMITS
CAP DUCTS

45'
8-4"PVC CONDUIT
CEMENT ENCASED

364'
6-4"PVC CONDUIT
CEMENT ENCASED

6-4"PVC CONDUIT
CEMENT ENCASED

36'
2-4"PVC CONDUIT
CEMENT ENCASED
SAW EXISTING DUCT PACKAGE
AND CONNECT AT ROW LINE

4" CLAY
TILE

ST.

90°, 5' RAD. HUB
STA. 23+73.1, 10.5' RT.

PROPOSED CUC MANHOLE 607
STA. 23+26.4, 5.5' RT.
PRECAST 4' DIAMETER

N 24TH

51'
2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED TRAFFIC
CONTROL CABINET
BY OTHERS

ABANDON MANHOLE 608A
EXISTING CUC MANHOLE
STA. 23+51.5, 16.6' RT.

EXISTING POLICE CALL BOX
STA. 23+52.4, 38.4' RT.

90°, 12.5' RAD. HUB
STA. 23+38.9, 26.2' RT.

CAP DUCT
19'
2-4"PVC CONDUIT
CEMENT ENCASED
SEE TRAFFIC CONTROL
DETAIL

PROPOSED CUC MANHOLE 609
STA. 26+92.2, 5.5' RT.
PRECAST 4' DIAMETER

24'
2-4"PVC CONDUIT
CEMENT ENCASED
SAW EXISTING DUCT PACKAGE
AND CONNECT AT ROW LINE

ABANDON MANHOLE 610A
EXISTING CUC MANHOLE
STA. 26+92.1, 16.7' RT.

4" CLAY
TILE

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 3 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 193	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 22-28.DGN

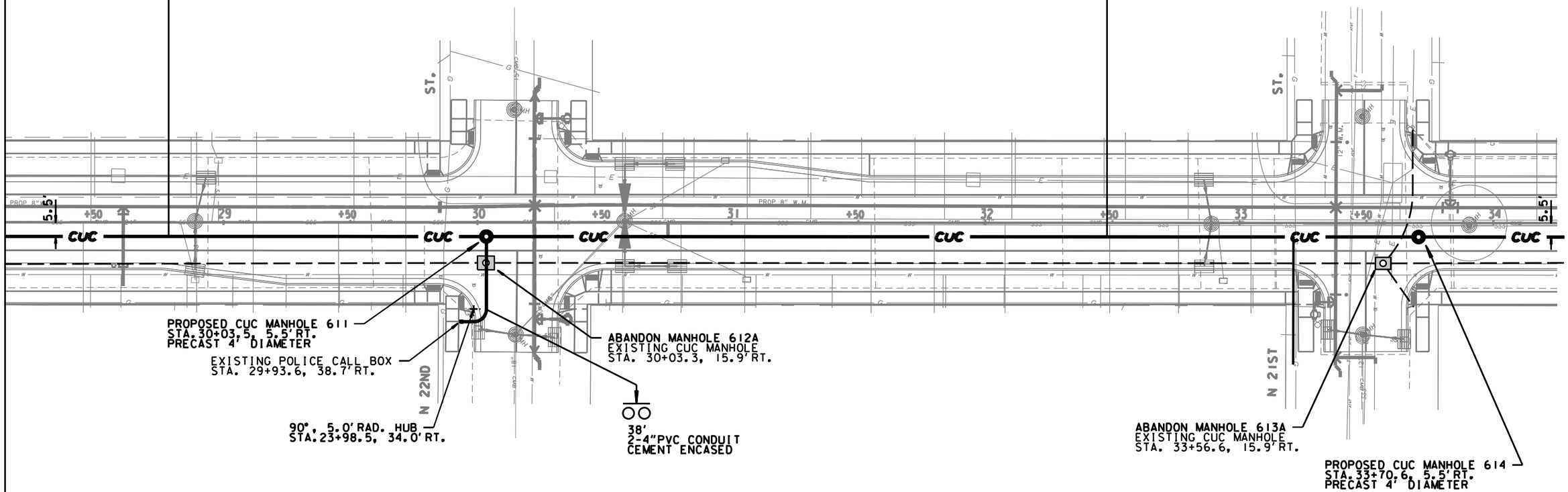
2

WEST VLIET STREET

N

307'
6-4"PVC CONDUIT
CEMENT ENCASED

363'
6-4"PVC CONDUIT
CEMENT ENCASED



PROPOSED CUC MANHOLE 611
STA. 30+03.5, 5.5' RT.
PRECAST 4' DIAMETER

EXISTING POLICE CALL BOX
STA. 29+93.6, 38.7' RT.

90°, 5.0' RAD. HUB
STA. 23+98.5, 34.0' RT.

ABANDON MANHOLE 612A
EXISTING CUC MANHOLE
STA. 30+03.3, 15.9' RT.

38'
2-4"PVC CONDUIT
CEMENT ENCASED

ABANDON MANHOLE 613A
EXISTING CUC MANHOLE
STA. 33+56.6, 15.9' RT.

PROPOSED CUC MANHOLE 614
STA. 33+70.6, 5.5' RT.
PRECAST 4' DIAMETER

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

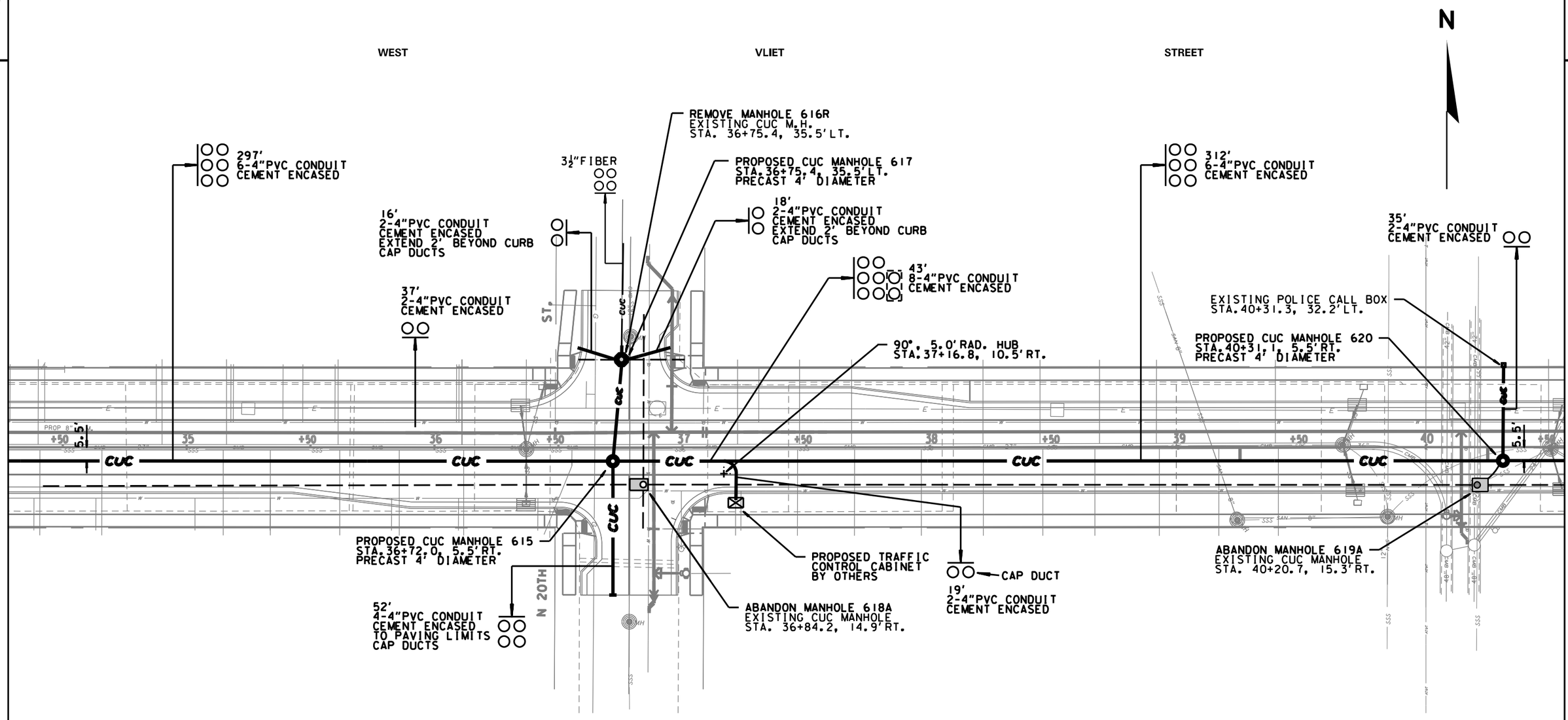
SHEET 4 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 194	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 28-34.DGN

2

WEST VLIET STREET



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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 5 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 195	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 34-40.DGN

2

WEST VLIET STREET

N

317'
6-4"PVC CONDUIT
CEMENT ENCASED

330'
6-4"PVC CONDUIT
CEMENT ENCASED

11.25°, 12.5.0' RAD. HUB
STA. 43+35.7, 0.5' RT.

11.25°, 12.5.0' RAD. HUB
STA. 42+98.0, 18.0' RT.

REMOVE MANHOLE 621R
EXISTING CUC MANHOLE
STA. 43+49.4, 15.1' RT.

PROPOSED CUC MANHOLE 622
STA. 43+51.7, 12.5' RT.
PRECAST 4' DIAMETER

N 18TH ST.

N 17TH ST.

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 6 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 196 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 40-46.DGN

2

WEST VLIET STREET

N

331'
6-4"PVC CONDUIT
CEMENT ENCASED

356'
6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE 624
STA. 46+81.7, 47.8'LT.

74'
2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED TRAFFIC
CONTROL CABINET
BY OTHERS

56'
2-4"PVC CONDUIT
CEMENT ENCASED

41'
2-4"PVC CONDUIT
CEMENT ENCASED

EXISTING POLICE CALL BOX
STA. 50+17.7, 33.1'RT.

ST.

N 17TH

PROPOSED CUC MANHOLE 626
STA.46+86.1, 12.5'RT.
PRECAST 4' DIAMETER

PROPOSED CUC MANHOLE 628
STA.50+20.8, 12.5'RT.
PRECAST 4' DIAMETER

ABANDON MANHOLE 627A
EXISTING CUC MANHOLE
STA. 50+08.9, 15.2'RT.

27'
2-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE 625
STA. 46+82.2, 43.0'RT.

ABANDON MANHOLE 623A
EXISTING CUC MANHOLE
STA. 46+72.5, 15.3'RT.

NOTES:

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LEGEND

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●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 7 OF 13

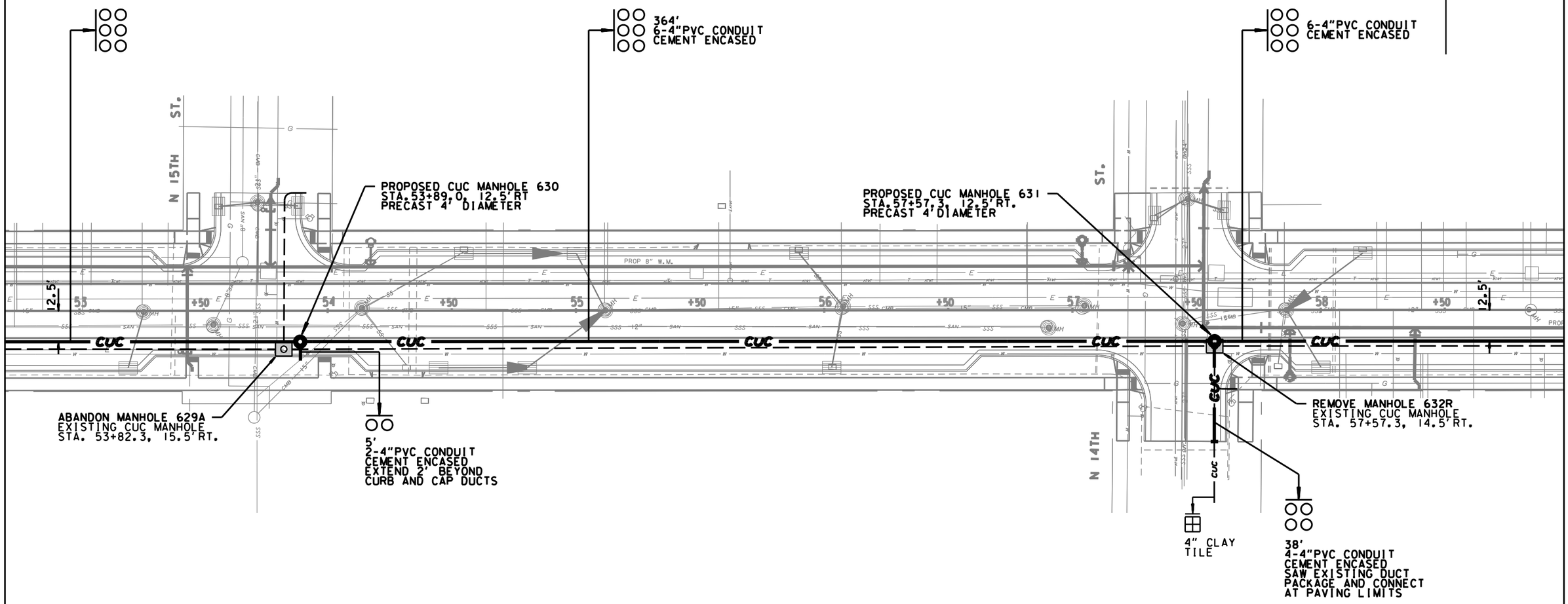
STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 197	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 46-52.DGN

2

WEST VLIET STREET

N



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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 8 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 198	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 52-58.DGN

2

WEST VLIET STREET

N

376'
6-4"PVC CONDUIT
CEMENT ENCASED

2'
3-4"PVC CONDUIT
CEMENT ENCASED
SAW EXISTING DUCT
PACKAGE AND CONNECT
AT PAVING LIMITS

4" CLAY
TILE

7'
2-4"PVC CONDUIT
CEMENT ENCASED
CAP DUCTS

PROPOSED CUC MANHOLE 634
STA. 61+35.1, 60.1'LT.
PRECAST 4' DIAMETER

22.5°, 12.5' RAD. HUB
STA. 61+47.5, 54.1'LT.

70'
4-4"PVC CONDUIT
CEMENT ENCASED

22.5°, 12.5' RAD. HUB
STA. 61+27.8, 36.5'RT.

PROPOSED CUC MANHOLE 633
STA. 61+40.5, 12.5'RT.
PRECAST 4' DIAMETER

379'
6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE 636
STA. 65+10.1, 41.9'RT.

REMOVE MANHOLE 635R
EXISTING CUC MANHOLE
STA. 61+34.9, 14.5'RT.

3'-8-4"PVC CONDUIT
CEMENT ENCASED

CAP DUCT
48'
2-4"PVC CONDUIT
CEMENT ENCASED

45°, 5.0' RAD. HUB
STA. 61+35.6, 17.5'RT.

PROPOSED TRAFFIC
CONTROL CABINET
BY OTHERS

EXISTING CUC MANHOLE 637
STA. 65+11.0, 42.6'RT.

N 13TH ST.

N 12TH ST.

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

SHEET 9 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO:

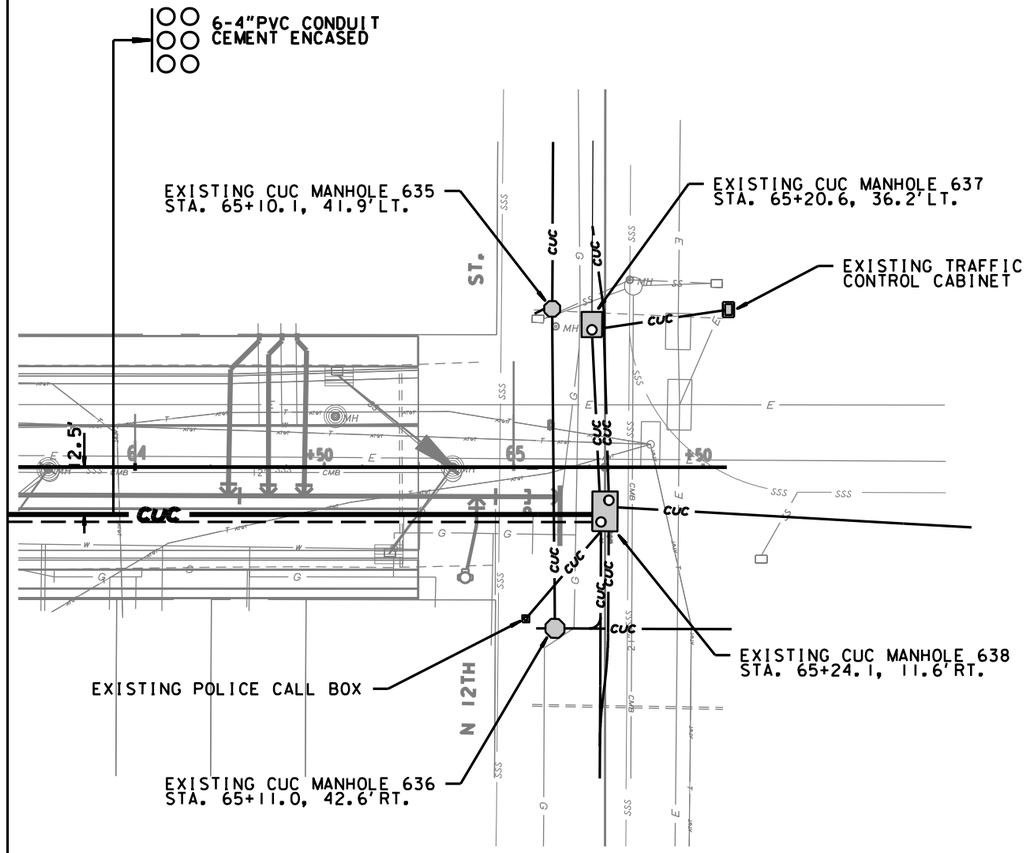
E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 58-64 REV.DGN

2

WEST VLIET STREET

N



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LEGEND

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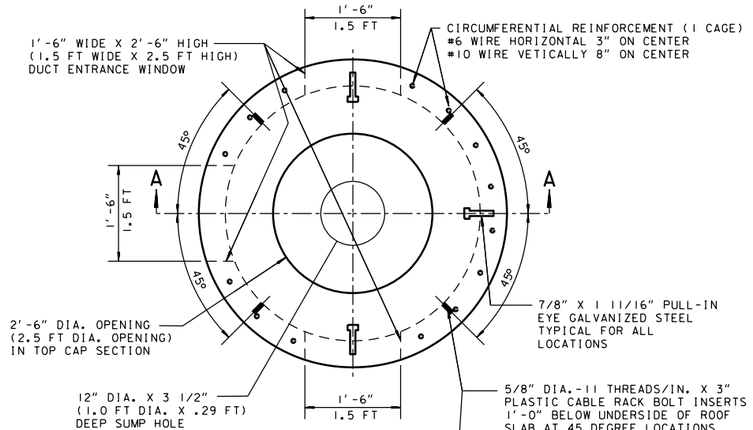
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — ·	ABANDONED CONDUIT

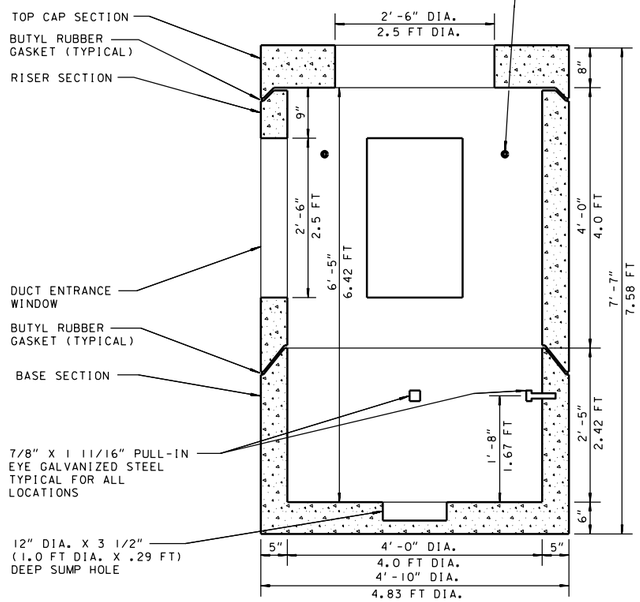
SHEET 10 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 200	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\STA 64-65.DGN



TOP VIEW



SECTION VIEW "A-A"

N.T.S.

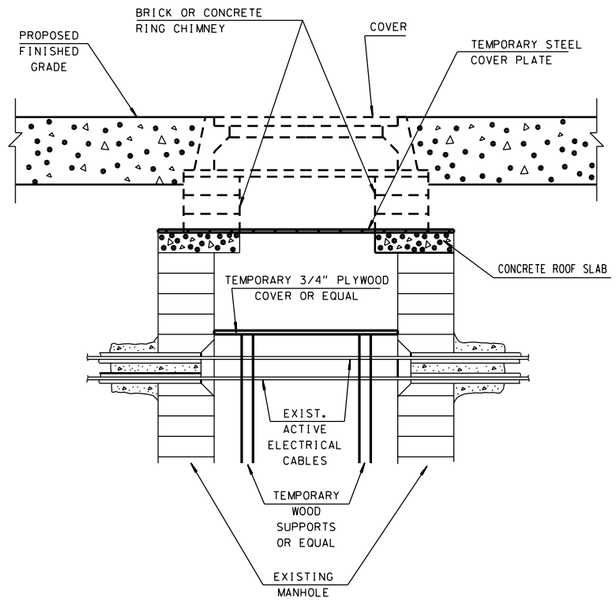
NOTES:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP". THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER.

REINFORCING IN THE FLOOR & TOP CAP SECTION SHALL CONFORM TO ASTM SPECIFICATION C-478.

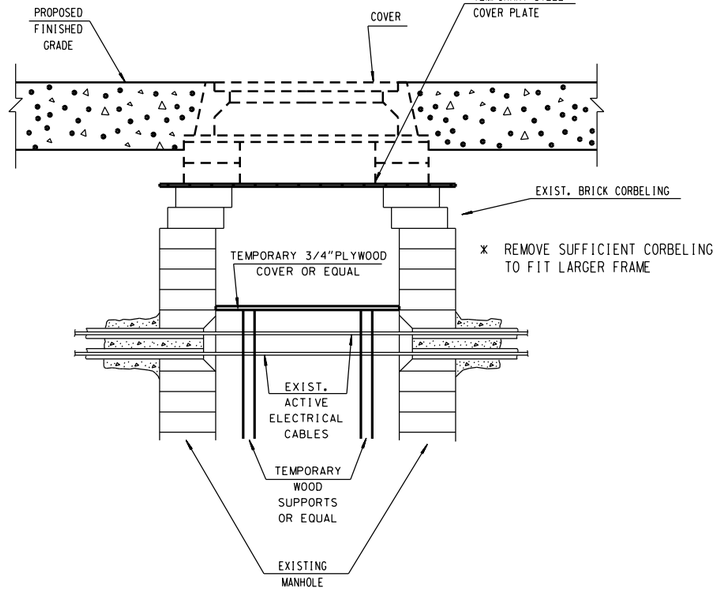
SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREA AND THE SIZE, LOCATION, SHAPE AND NUMBER OF WINDOWS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

3 WINDOW OPENING
4' DIA. X 6'-5" HEADROOM
PRECAST CONCRETE MANHOLE

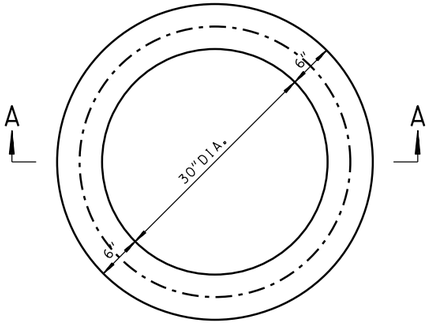
4' DIAMETER CUC MANHOLE



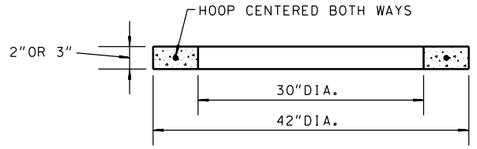
BLOCK OR PRECAST MANHOLE



BRICK ROUND MANHOLE



PLAN



SECTION A-A

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

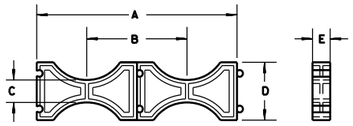
CONCRETE ADJUSTING RING

ADJUSTING CUC MANHOLES

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UG CONDUIT DETAILS (CUC)	SCALE FEET	SHEET NO: 201	E

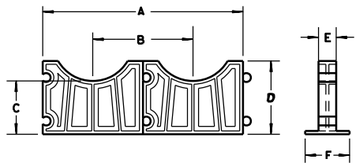
FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\DETAILS A.DGN

COND.	3"	4"
A	10 ¼"	12 ¼"
B	5 ⅛"	6 ⅛"
C	1 ½"	1 ½"
D	5.13"	6.13"
E	1"	1"



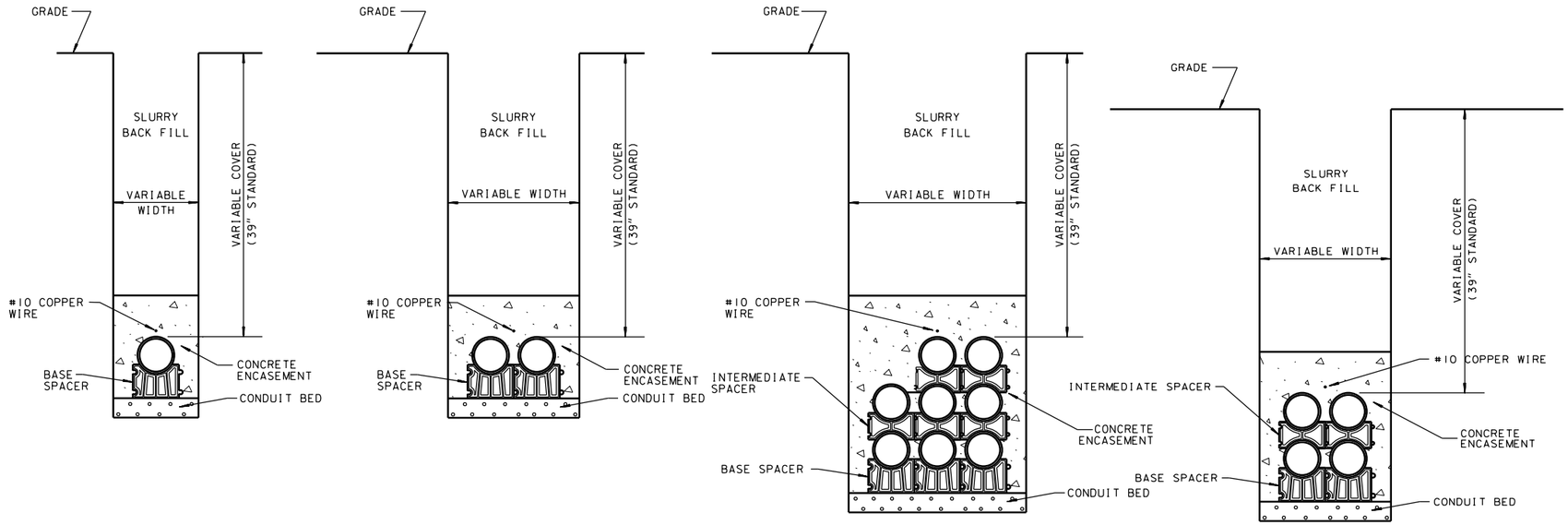
INTERMEDIATE SPACER

COND.	3"	4"
A	10 ¼"	12 ¼"
B	5.13"	6.13"
C	3"	3"
D	4 ¾"	5.31"
E	1"	1"
F	3"	3"

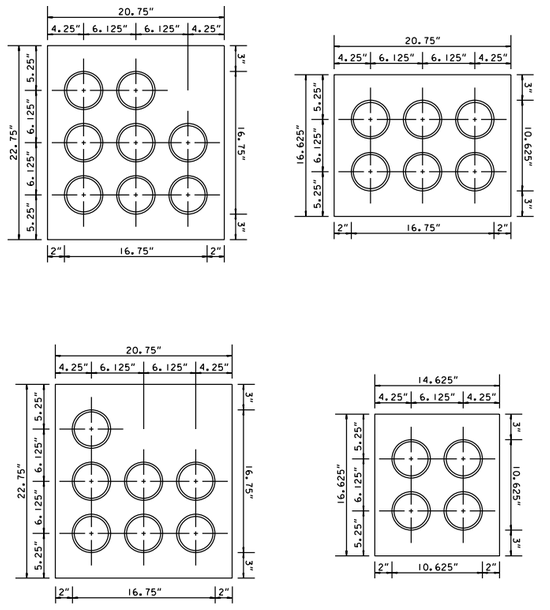


BASE SPACER

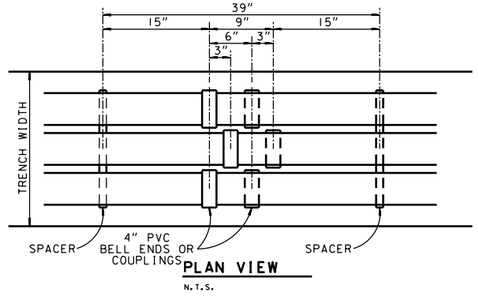
INTERMEDIATE AND BASE SPACER DETAIL

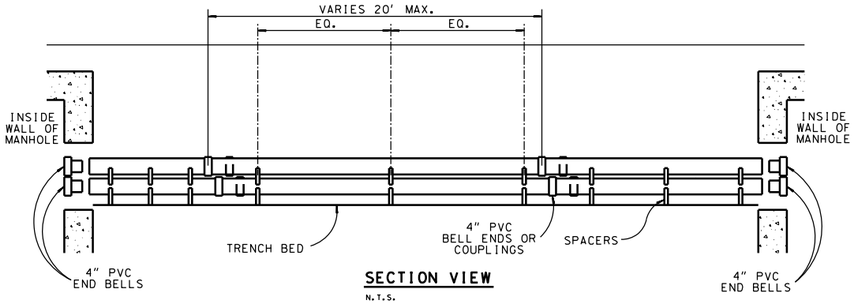


CROSS SECTION VIEW, TYP.
N.T.S.



CROSS SECTION VIEW
N.T.S.



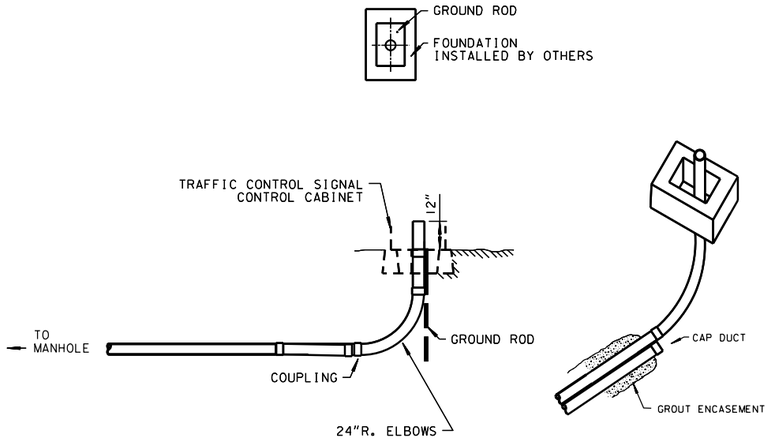


DUCT INSTALLATION DETAIL

SHEET 12 OF 13

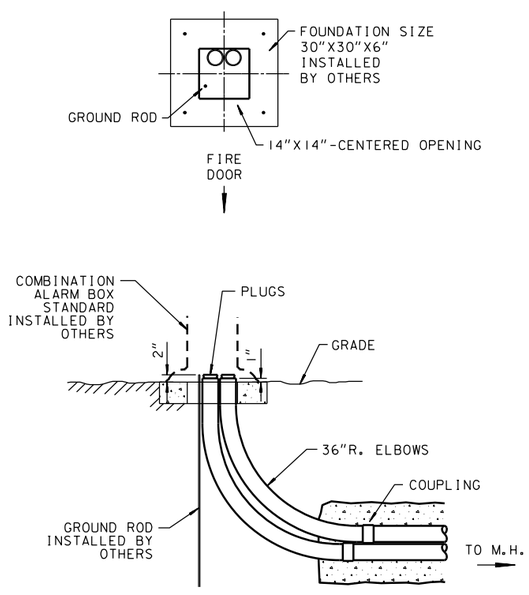
STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UG CONDUIT DETAILS (CUC)	SCALE FEET	SHEET NO: 202	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\DETAILS B.DGN



TRAFFIC CONTROL CABINET

FOR REFERENCE ONLY



POLICE CALL BOX DETAIL

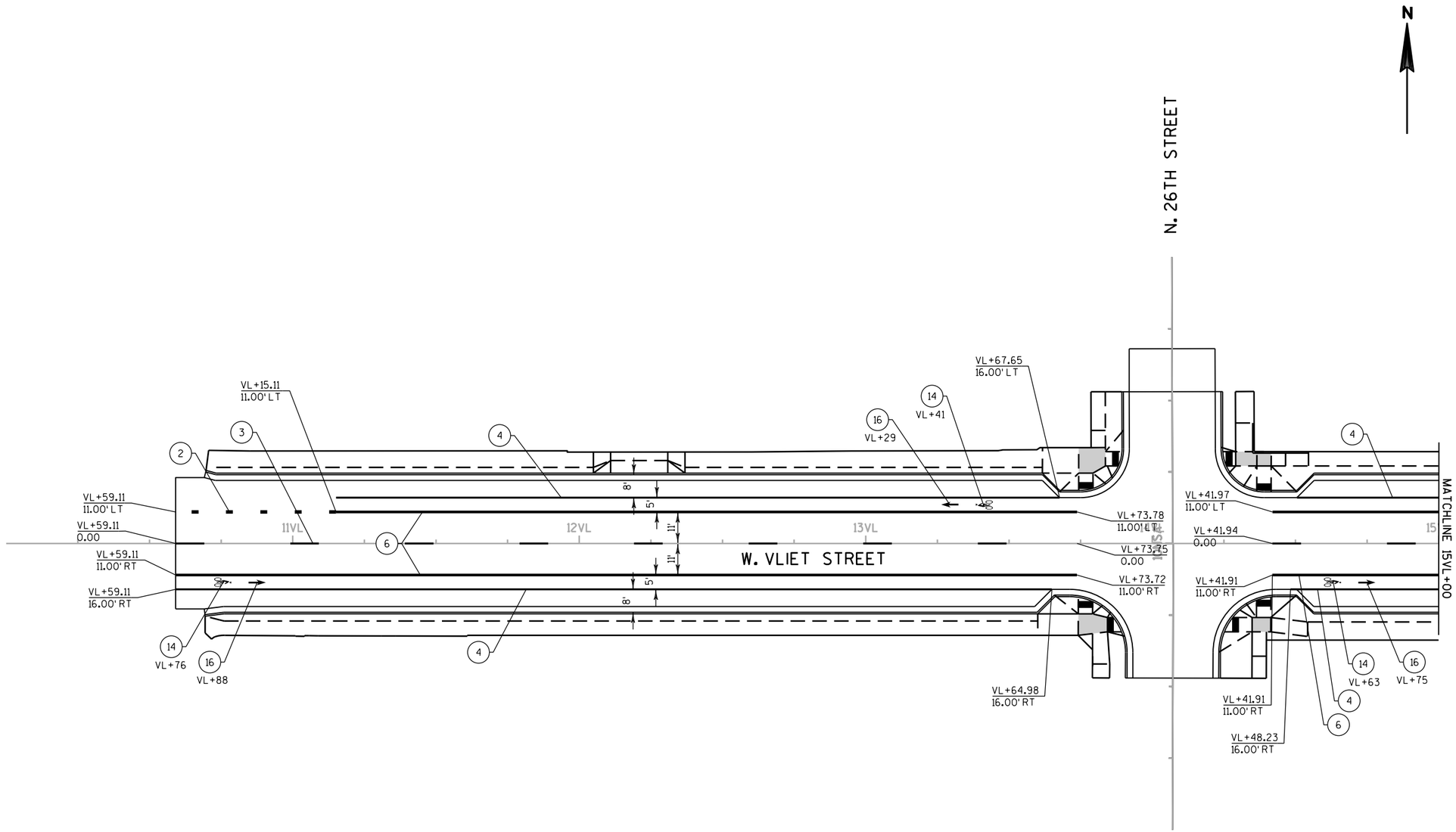
FOR REFERENCE ONLY

SHEET 13 OF 13

STATE PROJECT NUMBER 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CITY UG CONDUIT DETAILS (CUC)	SCALE FEET	SHEET NO: 203	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\VLIET 12_27\DGN\DETAILS C.DGN

2



LEGEND

(2) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)

(3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (WHITE)

(6) MARKING LINE EPOXY 6-INCH (WHITE)

(7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

(9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

(14) MARKING SYMBOL GROOVED PREFORMED PLASTIC

(16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 204	E

2

N

N. 25TH STREET

N. 24TH PLACE

W. VLIET STREET

MATCHLINE 15VL+00

MATCHLINE 21VL+00

15VL

16VL

18VL

19VL

20VL

21

VL+48.95
16.00' LT

VL+48.95
11.00' LT

VL+48.96
0.00

VL+68.96
11.00' RT

VL+68.96
16.00' RT

VL+48.96
11.00' RT

VL+99.98
16.00' LT

VL+99.98
11.00' LT

VL+19.98
11.00' LT

VL+19.95
0.00

VL+19.91
11.00' RT

VL+19.89
16.00' RT

VL+53

VL+65

VL+59.55
16.00' LT

VL+65.55
11.00' LT

VL+65.53
0.00

VL+65.52
11.00' RT

VL+59.51
16.00' RT

VL+35.62
16.00' LT

VL+28.16
11.00' LT

VL+28.23
0.00

VL+28.31
11.00' RT

VL+35.81
16.00' RT

VL+61

VL+73

LEGEND

(2) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(2 FT LINE 6 FT SKIP)

(3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW)
(10 FT LINE 30 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (WHITE)

(6) MARKING LINE EPOXY 6-INCH (WHITE)

(7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

(9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

(14) MARKING SYMBOL GROOVED PREFORMED PLASTIC

(16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 205	E

2

N

N. 24TH STREET

W. VLIET STREET

MATCHLINE 21VL+00

MATCHLINE 27VL+00

VL+26.80
41.58' LT

VL+45.73
11.00' LT

VL+05.15
16.00' LT

VL+05.16
11.00' LT

VL+65.73
11.00' LT

VL+01.17
0.00

VL+61.76
0.00

VL+01.18
11.00' RT

VL+61.79
11.00' RT

VL+21.16
16.00' RT

VL+21.16
11.00' RT

VL+37.25
41.58' RT

VL+60

VL+72

VL+95

VL+07

22VL

24VL

25VL

26VL

LEGEND

2 MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(2 FT LINE 6 FT SKIP)

3 MARKING LINE EPOXY 4-INCH (DASHED YELLOW)
(10 FT LINE 30 FT SKIP)

4 MARKING LINE EPOXY 4-INCH (WHITE)

6 MARKING LINE EPOXY 6-INCH (WHITE)

7 MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

9 MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

14 MARKING SYMBOL GROOVED PREFORMED PLASTIC

16 MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 206	E

2

N

N. 22ND STREET

MATCHLINE 27VL+00

MATCHLINE 33VL+00

W. VLIET STREET

28VL

29VL

31VL

32VL

33

VL+35

VL+47

VL+79.74
11.00' LT

VL+79.74
0.00

VL+79.74
11.00' RT

VL+99.74
11.00' RT

VL+48.20
11.00' LT

VL+48.20
0.00

VL+48.20
11.00' RT

VL+28.20
11.00' LT

VL+77

VL+89

VL+81

VL+93

VL+42.99
11.00' RT

LEGEND

(2) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(2 FT LINE 6 FT SKIP)

(3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW)
(10 FT LINE 30 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (WHITE)

(6) MARKING LINE EPOXY 6-INCH (WHITE)

(7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

(9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

(11) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH (WHITE)

(14) MARKING SYMBOL GROOVED PREFORMED PLASTIC

(16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 207	E

2

N

N. 21ST STREET

N. 20TH STREET

W. VLIET STREET

MATCHLINE 33VL+00

MATCHLINE 39VL+00

VL+42.12
39.08' LT

VL+55.90
11.00' LT

VL+22.36
11.00' LT

VL+75.90
11.00' LT

VL+75.61
0.00

VL+22.67
0.00

VL+22.99
11.00' RT

VL+75.68
11.00' RT

VL+56.78
36.58' RT

VL+08

VL+20

VL+01

VL+13

VL+70.27
41.58' LT

VL+45.87
11.00' LT

VL+61.87
11.00' RT

VL+41.87
0.00

VL+41.87
11.00' RT

VL+13.77
11.00' LT

VL+93.77
11.00' LT

VL+13.73
0.00

VL+09.69
11.00' RT

VL+87.04
39.08' RT

VL+43

VL+55

34VL

35VL

36VL

37VL

38VL

39

11'

5'

2'

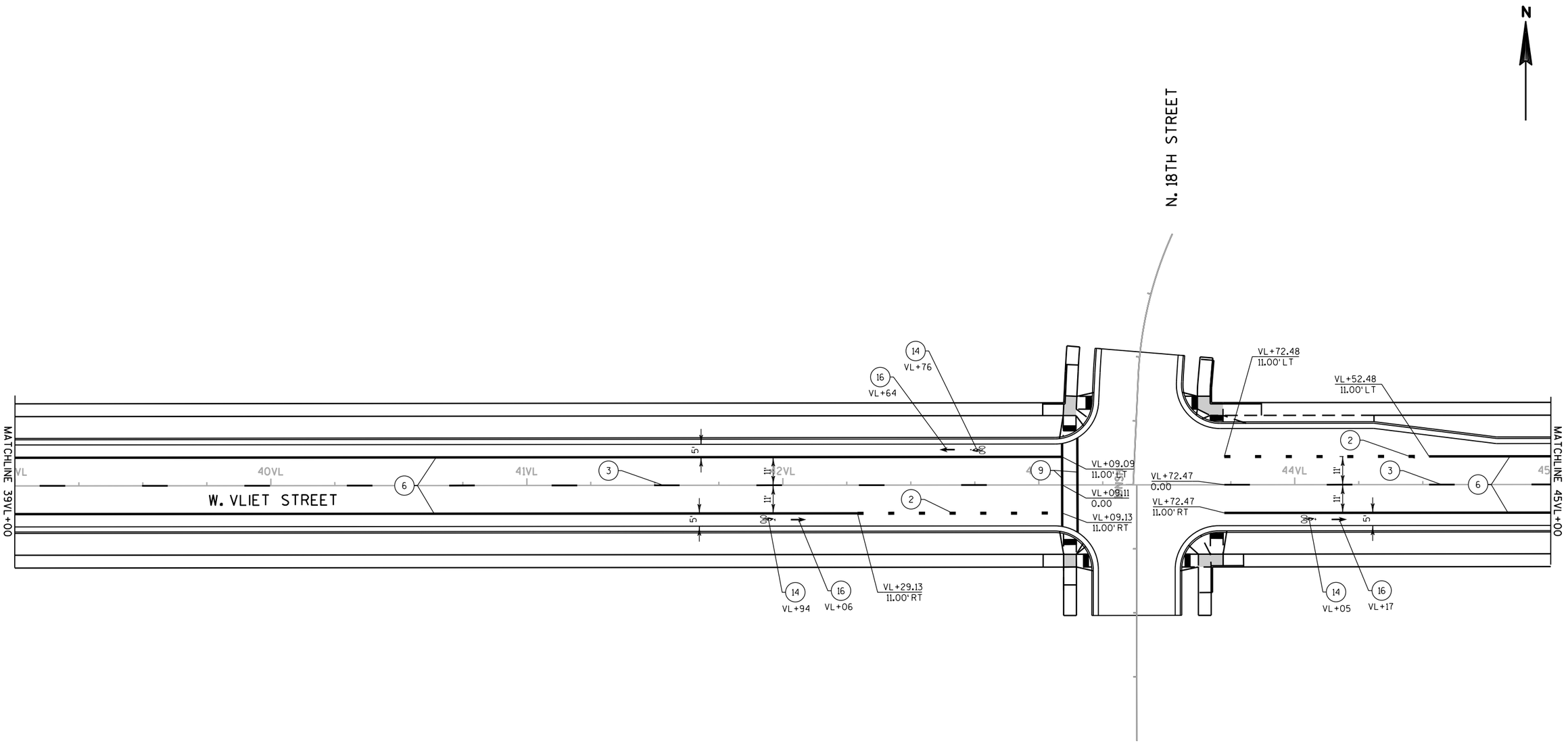
LEGEND

2	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)
3	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)
4	MARKING LINE EPOXY 4-INCH (WHITE)
6	MARKING LINE EPOXY 6-INCH (WHITE)
7	MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)
9	MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
14	MARKING SYMBOL GROOVED PREFORMED PLASTIC
16	MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\1012s02405_pm.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

2

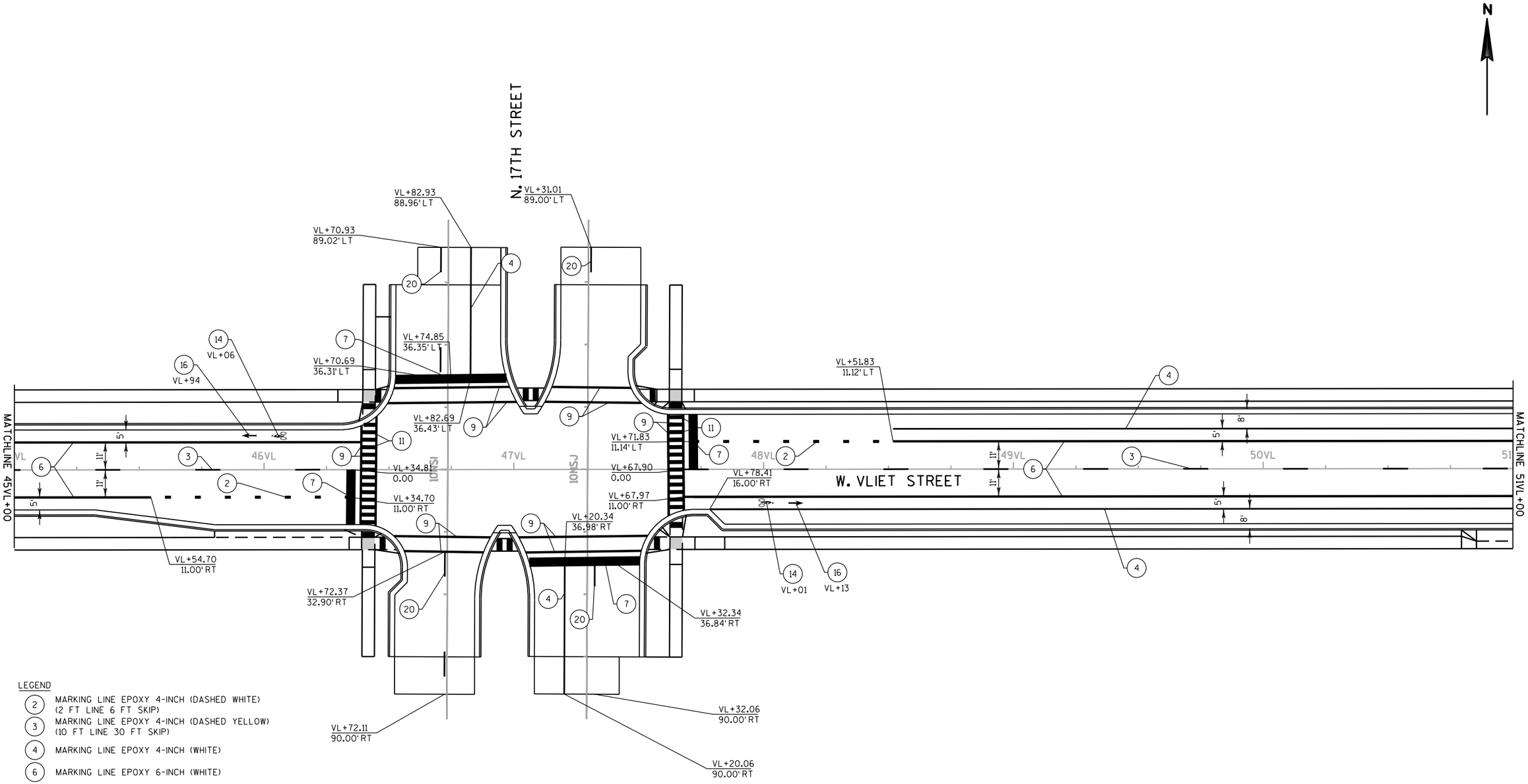


LEGEND

- (2) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)
- (3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)
- (4) MARKING LINE EPOXY 4-INCH (WHITE)
- (6) MARKING LINE EPOXY 6-INCH (WHITE)
- (7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)
- (9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
- (14) MARKING SYMBOL GROOVED PREFORMED PLASTIC
- (16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 209	E

2

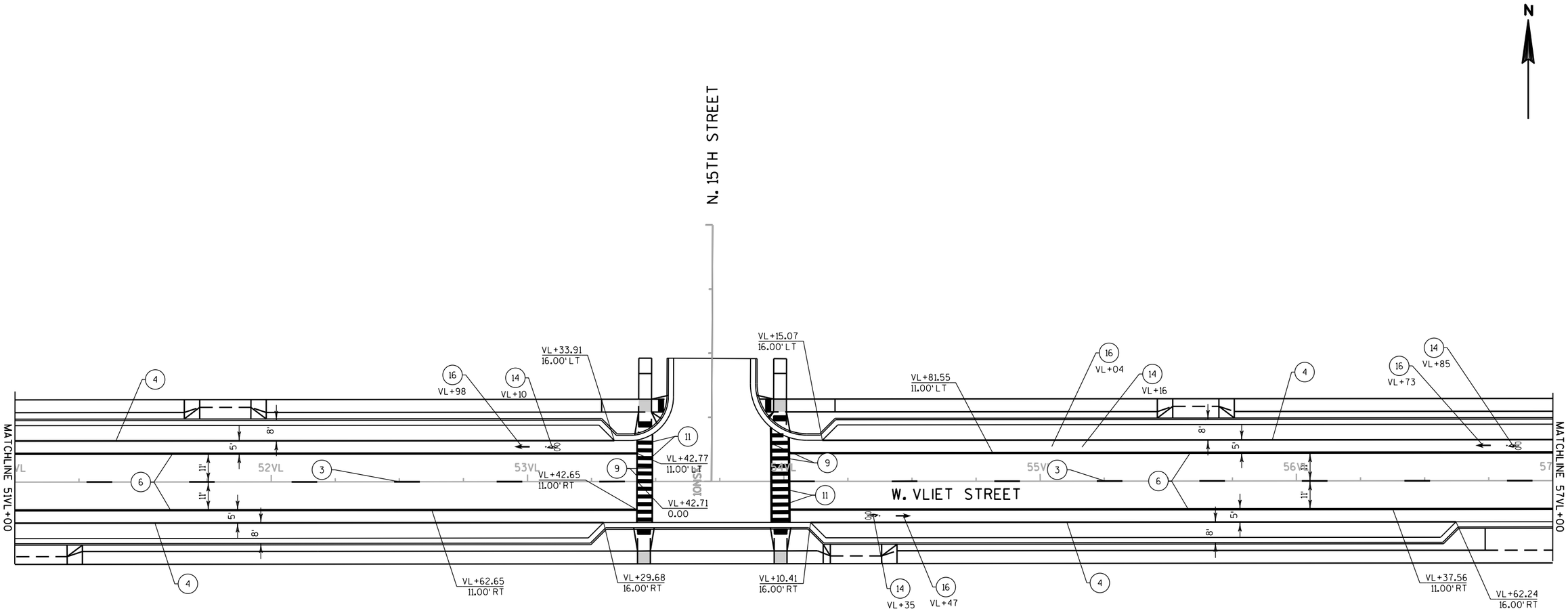


LEGEND

2	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)
3	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)
4	MARKING LINE EPOXY 4-INCH (WHITE)
6	MARKING LINE EPOXY 6-INCH (WHITE)
7	MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)
8	MARKING LINE EPOXY 8-INCH (WHITE)
9	MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
11	MARKING CROSSWALK CONTINENTAL BARS GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
14	MARKING SYMBOL GROOVED PREFORMED PLASTIC
16	MARKING ARROW GROOVED PREFORMED PLASTIC
20	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (10 FT LINE 30 FT SKIP)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 210	E

2

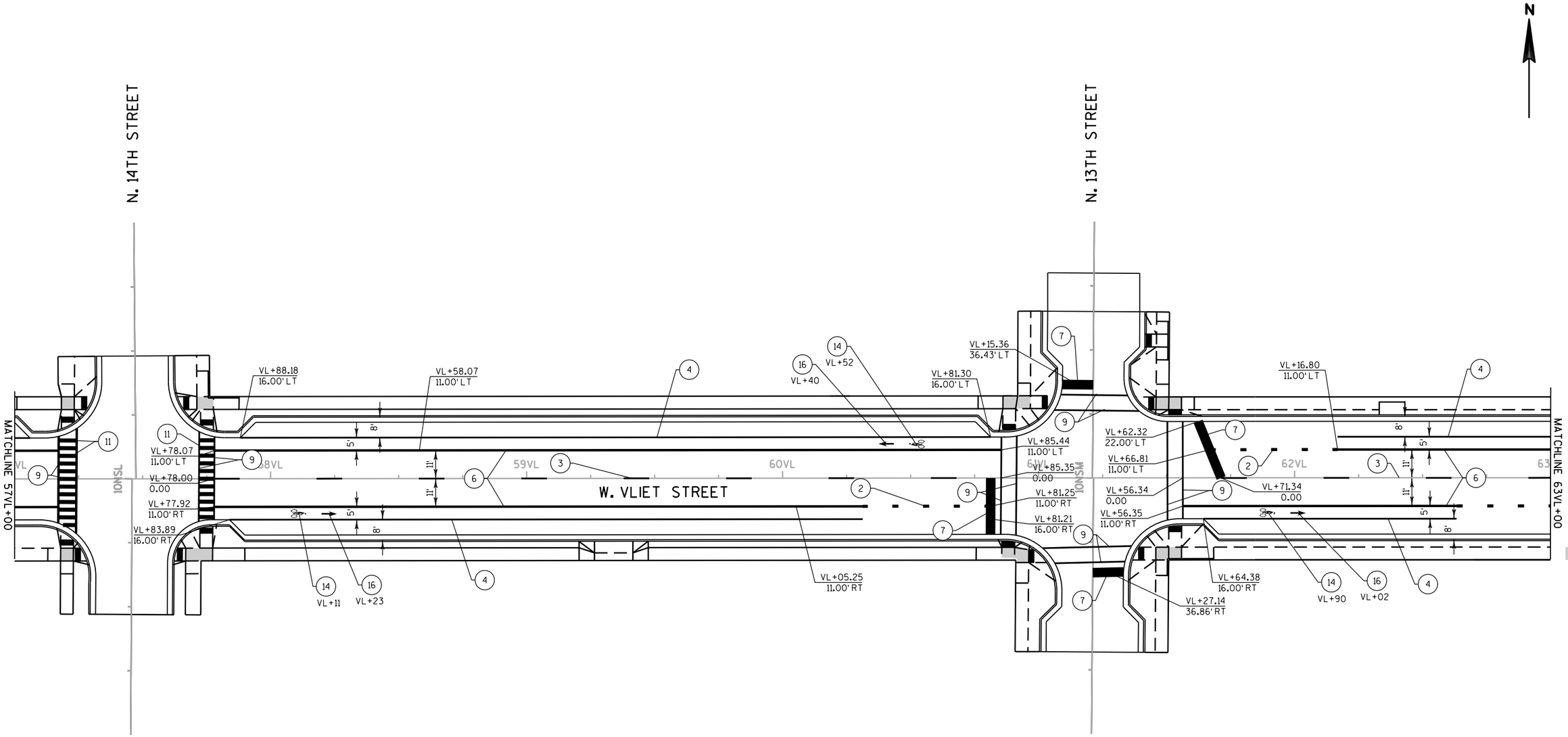


LEGEND

- (3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)
- (4) MARKING LINE EPOXY 4-INCH (WHITE)
- (6) MARKING LINE EPOXY 6-INCH (WHITE)
- (7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)
- (9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
- (11) MARKING CROSSWALK CONTINENTAL BARS GROOVED PREFORMED PLASTIC 12-INCH (WHITE)
- (14) MARKING SYMBOL GROOVED PREFORMED PLASTIC
- (16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 211	E

2



LEGEND

(2) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)

(3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (WHITE)

(6) MARKING LINE EPOXY 6-INCH (WHITE)

(7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

(9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

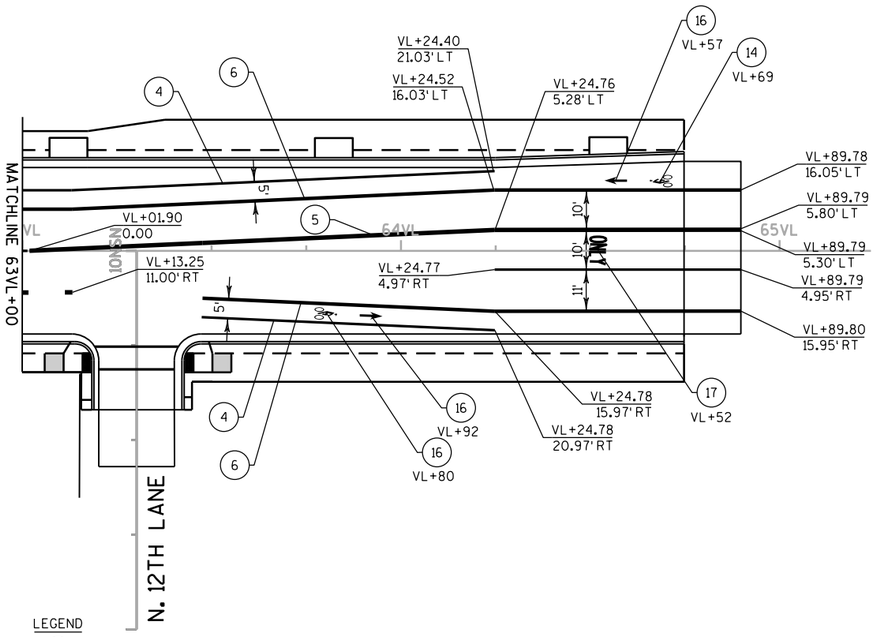
(11) MARKING CROSSWALK CONTINENTAL BARS GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

(14) MARKING SYMBOL GROOVED PREFORMED PLASTIC

(16) MARKING ARROW GROOVED PREFORMED PLASTIC

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 212	E

2



LEGEND

(2) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)

(3) MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (10 FT LINE 30 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (WHITE)

(5) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

(6) MARKING LINE EPOXY 6-INCH (WHITE)

(7) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH (WHITE)

(9) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH (WHITE)

(14) MARKING SYMBOL GROOVED PREFORMED PLASTIC

(16) MARKING ARROW GROOVED PREFORMED PLASTIC TYPE 2

(17) MARKING WORD GROOVED PREFORMED PLASTIC (WHITE)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PAVEMENT MARKINGS: VLIET	SHEET 213	E

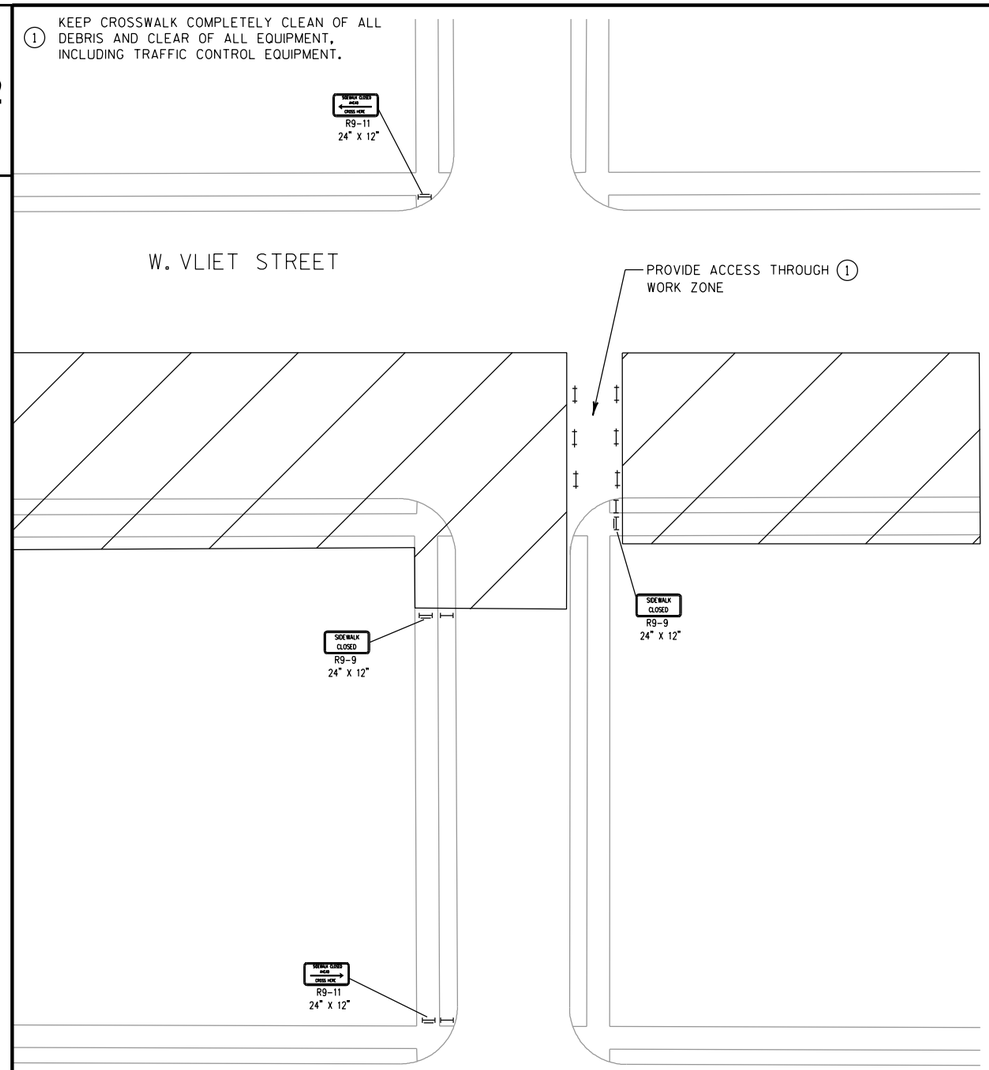
2

TRAFFIC CONTROL NOTES

1. MAINTAIN ONE 11-FOOT MINIMUM LANE AT ALL TIMES
2. TRAFFIC CONTROL DRUMS ARE SPACED AT 25'O.C. EXCEPT AT DRIVEWAYS AND INTERSECTIONS. WHERE THE SPACING IS 10'O.C.
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS PAID FOR AS "TRAFFIC CONTROL COVERING SIGNS TYPE II".
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCE OF OPERATION.
7. "WO SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
8. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
9. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
10. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
11. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
12. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT.
13. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION. FOR PROPERTIES WITH MULTIPLE DRIVEWAYS, ONLY ONE DRIVEWAY CAN BE CLOSED/WORKED ON AT ANY TIME.
14. CONTACT THE CITY OF MILWAUKEE TO PLACE TEMPORARY NO PARKING SIGNS WITHIN THE PROJECT LIMITS PRIOR TO SETTING UP WORK ZONES AND SHIFTING TRAFFIC. PROVIDE 5 DAY NOTICE PRIOR TO WHEN PLACEMENT OF SIGNS IS NEEDED AND FOR EACH STAGE TRANSITION. CONTACT MIKE CHANESKE AT 414-286-5695 TO COORDINATE TEMPORARY NO PARKING SIGN PLACEMENT.
15. WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE PREVIOUS STAGE FOR THAT SEGMENT OR AS DIRECTED BY THE ENGINEER.

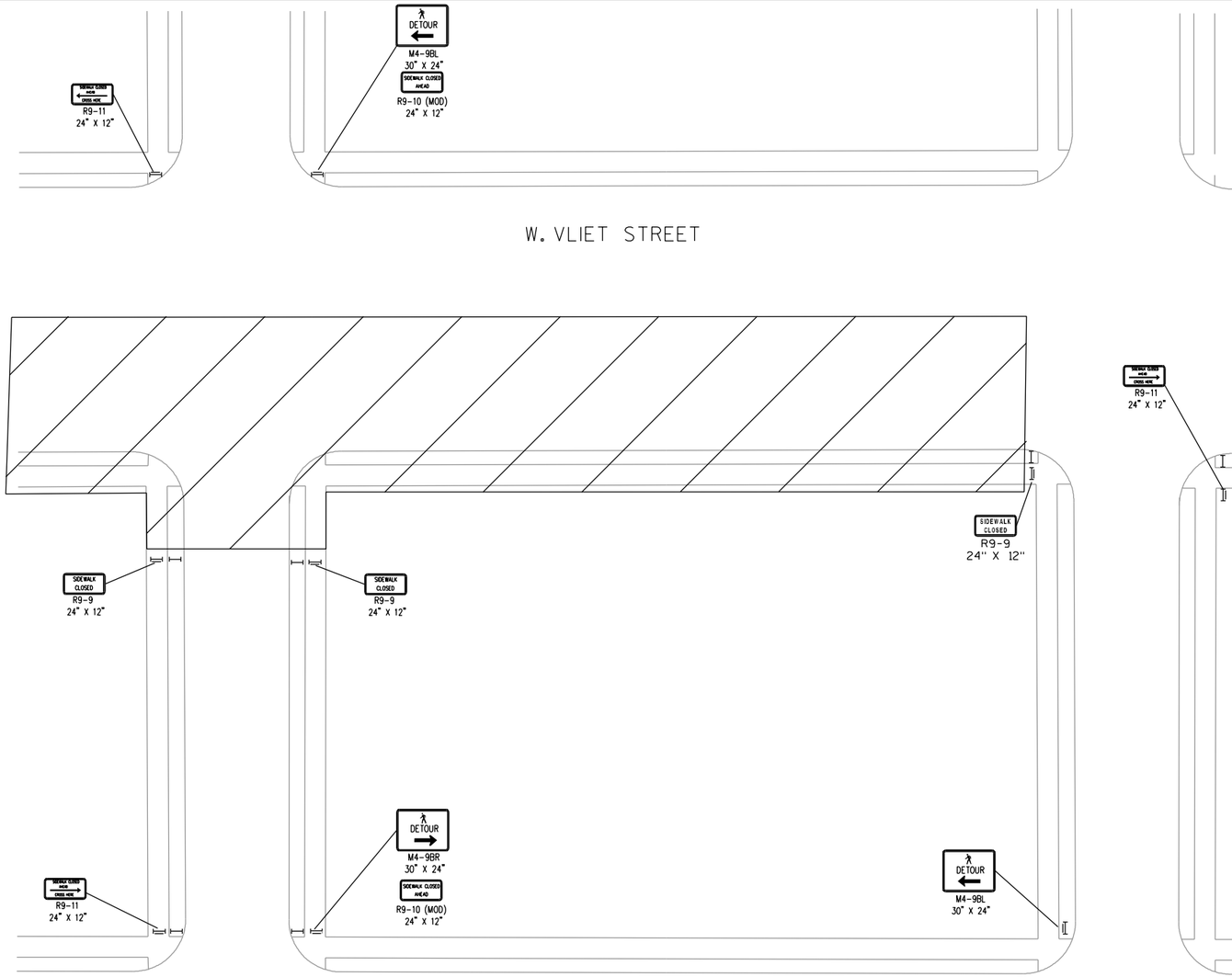
TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE II WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- PCMS — TRAFFIC CONTROL SIGNS PORTABLE CHANGABLE MESSAGE
- TRAFFIC FLOW ARROW
- WORK ZONE THIS STAGE
- ASPHALTIC SURFACE TEMPORARY, 5-INCHES



PARTIAL SIDEWALK CLOSURE - NO DETOUR

TYPICAL SIDEWALK CLOSURE WHEN ONLY CLOSING ONE SIDE OF THE INTERSECTION



FULL SIDEWALK CLOSURE - DETOUR

TYPICAL SIDEWALK DETOUR WHEN COMPLETELY CLOSING ONE OF THE SIDE ROADS

GENERAL NOTES

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FULLY ACCESSIBLE, SAFE, AND DIRECT PASSAGE FOR PEDESTRIANS THROUGH THE TEMPORARY WORK ZONE, WHICH MUST BE FULLY COMPLIANT WITH ACCESS REQUIREMENTS FOR PEOPLE WITH DISABILITIES, AS SPECIFIED IN THE AMERICANS WITH DISABILITIES ACT. ALL TRAFFIC CONTROL DEVICES USED TO PROVIDE AND MAINTAIN SAFE ACCESS MUST BE FULLY CONSISTENT WITH SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES INCLUDED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SPECIFIC LOCATIONS FOR PEDESTRIAN ACCESS ACCOMMODATIONS ARE TO BE MAINTAINED DURING CONSTRUCTION, PER DIRECTION OF THE CITY OF MILWAUKEE CONSTRUCTION SUPERVISOR AND THE FIELD INSPECTOR.

PEDESTRIAN ACCOMMODATION NOTES

1. MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES BY ONLY CLOSING ONE SIDE OF THE INTERSECTION AT A TIME OR BY DETOURING PEDESTRIANS TO NEXT SIDE STREET. DO NOT CLOSE TWO ADJACENT SIDE ROADS AT THE SAME TIME.
2. SEE STANARD DETAIL DRAWING "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL NOTES	SHEET 215	E

2

W. KNEELAND STREET

N. 15TH STREET

N. 12TH STREET

W. VLIET STREET

N. 17TH STREET

IH-43

N. 14TH STREET

N. 13TH STREET

N. 12TH LANE

W. MCKINLEY AVENUE

W. JUNEAU AVENUE

DO NOT ENTER
COVER SIGN

ONE WAY
COVER SIGN

W6-3
36" X 36"

STOP
R1-1
30" X 30"

DO NOT ENTER
R5-1
30" X 30"

END ONE WAY
R6-7
24" X 30"

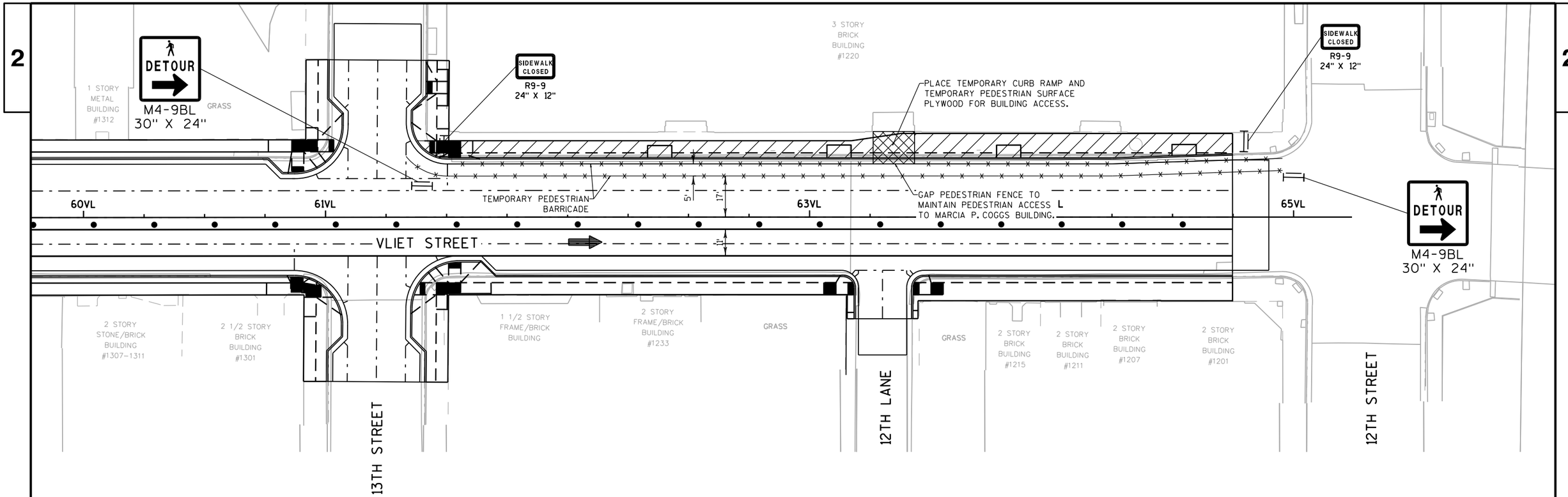
GENERAL NOTES

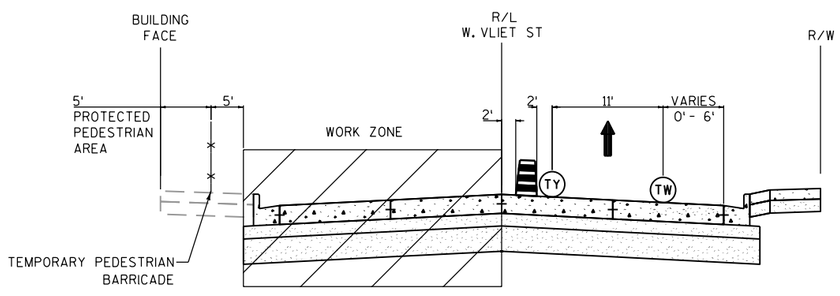
CONVERT N. 14TH STREET TO TWO-WAY TRAFFIC BETWEEN W. VLIET STREET AND W. JUNEAU AVENUE DURING CONSTRUCTION STAGE 2A & 2B.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

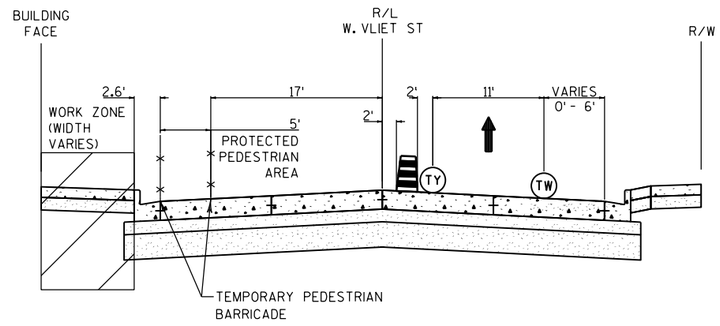
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL NOTES	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Electrical Drawings\Plan Sheets\63342_TCP01_tc.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 150:1





STAGING TYPICAL SECTION - SIDEWALK
W. VLIET STREET
STAGE 2 (NOTE 1)
BETWEEN 13TH STREET AND 12TH STREET
(MARCIA P. COGGS HUMAN SERVICE CENTER)



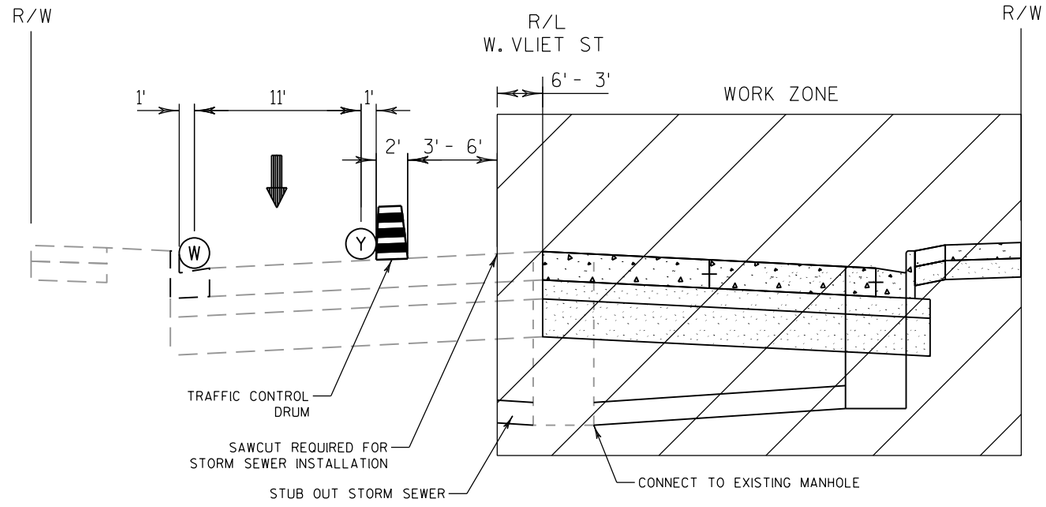
STAGING TYPICAL SECTION - SIDEWALK
W. VLIET STREET
STAGE 2 (NOTE 2)
BETWEEN 13TH STREET AND 12TH STREET
(MARCIA P. COGGS HUMAN SERVICE CENTER)

PEDESTRIAN ACCOMMODATION NOTES

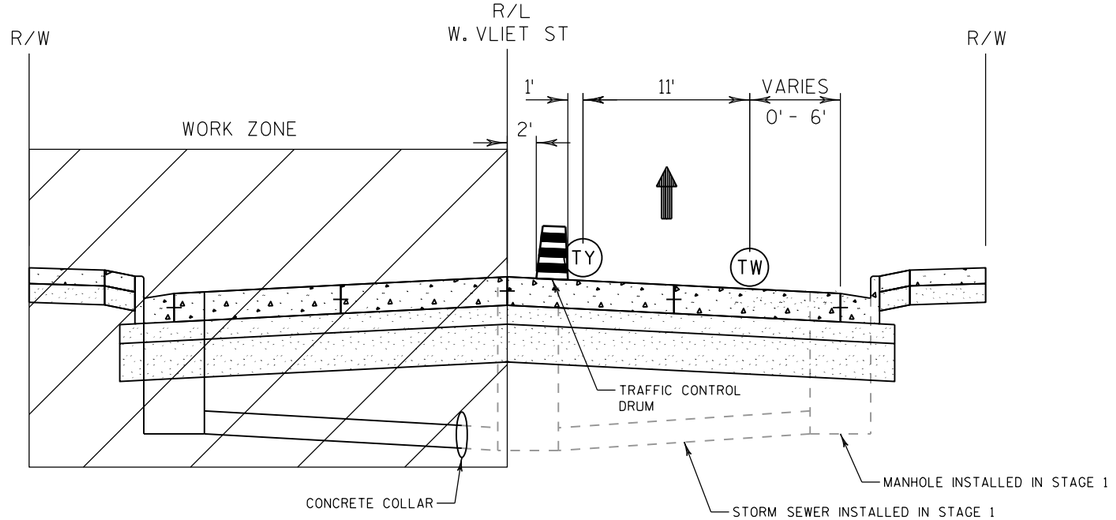
1. MAINTAIN EXISTING SIDEWALK ACCESS ALONG VLIET STREET, IN FRONT OF MARCIA P. COGGS HUMAN SERVICES CENTER, WHILE ROADWAY IS BEING RECONSTRUCTED, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. ONCE ROADWAY PAVEMENT IS COMPLETED, RECONSTRUCT SIDEWALK AND MAINTAIN PEDESTRIAN ACCESS TO MARCIA P. COGGS HUMAN SERVICES CENTER BY DETOURING PEDESTRIANS TO THE FINISHED ROADWAY PAVEMENT AS DETAILED IN PLANS. PROVIDE TEMPORARY CURB RAMPS AND TEMPORARY PEDESTRIAN SURFACE THROUGH THE WORK ZONE (WHERE NEEDED) TO MAINTAIN ACCESS TO BUILDING.
3. REFER TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

(TW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
(TY) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL NOTES	SHEET 217 E



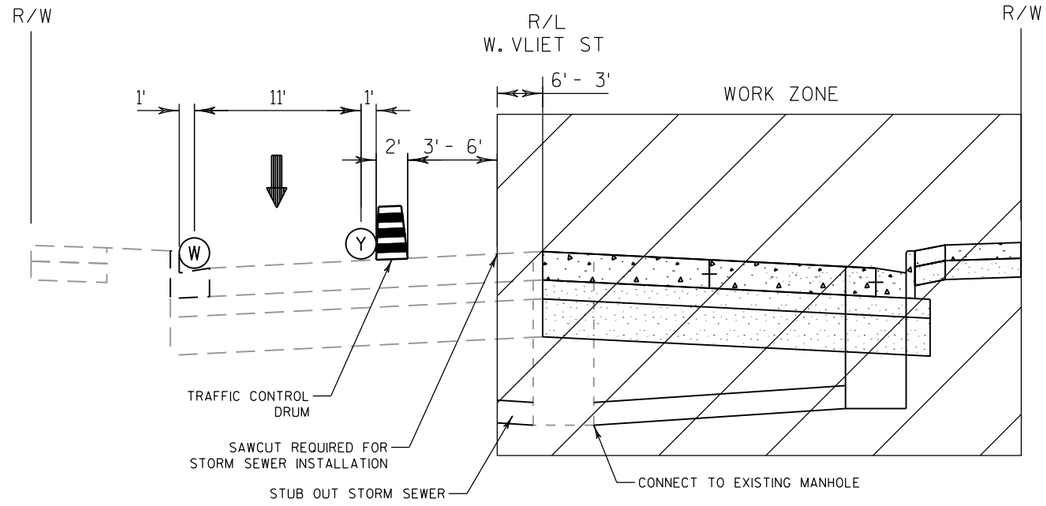
STAGE 1A/1B
W. VLIET STREET
STA 46VL+00 TO STA 64VL+75 (STAGE 1A/1B)



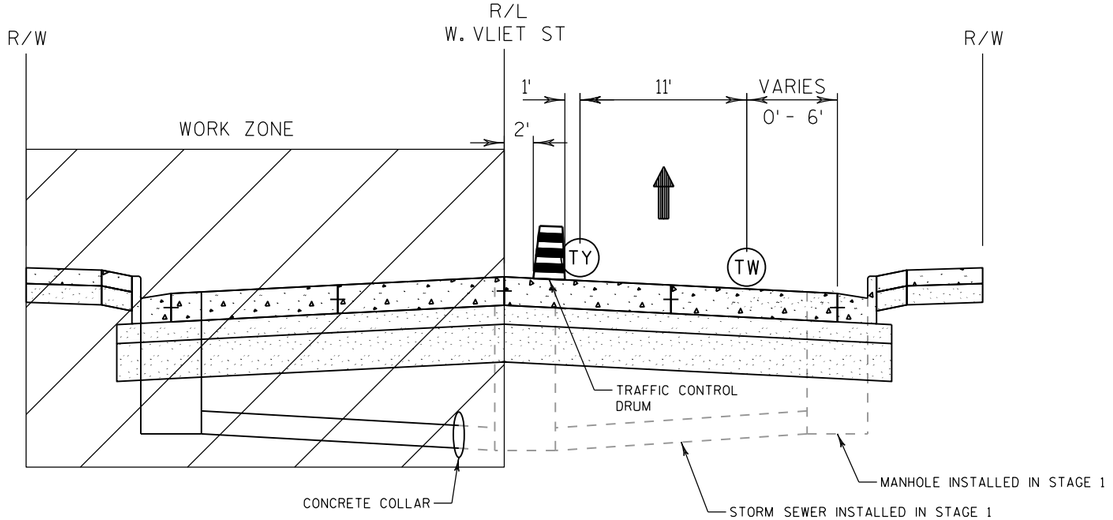
STAGE 2A/2B
W. VLIET STREET
STA 46VL+00 TO STA 64VL+75 (STAGE 2A/2B)

(W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
(Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
(TW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
(TY) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL: TYPICAL SECTIONS	SHEET 218	E



STAGE 3
W. VLIET STREET
STA 10VL+69 TO STA 46VL+00 (STAGE 3)

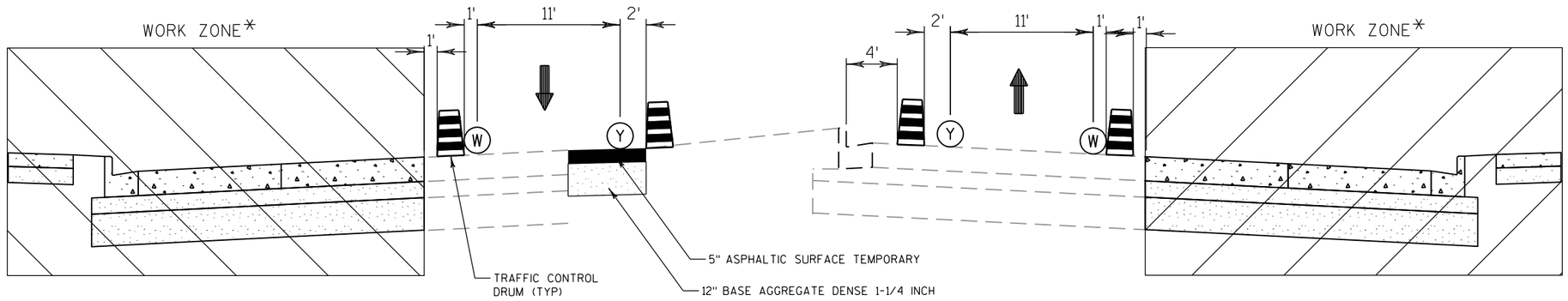


STAGE 4
W. VLIET STREET
STA 10VL+69 TO STA 46VL+00 (STAGE 4)

(W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
(Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
(TW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
(TY) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

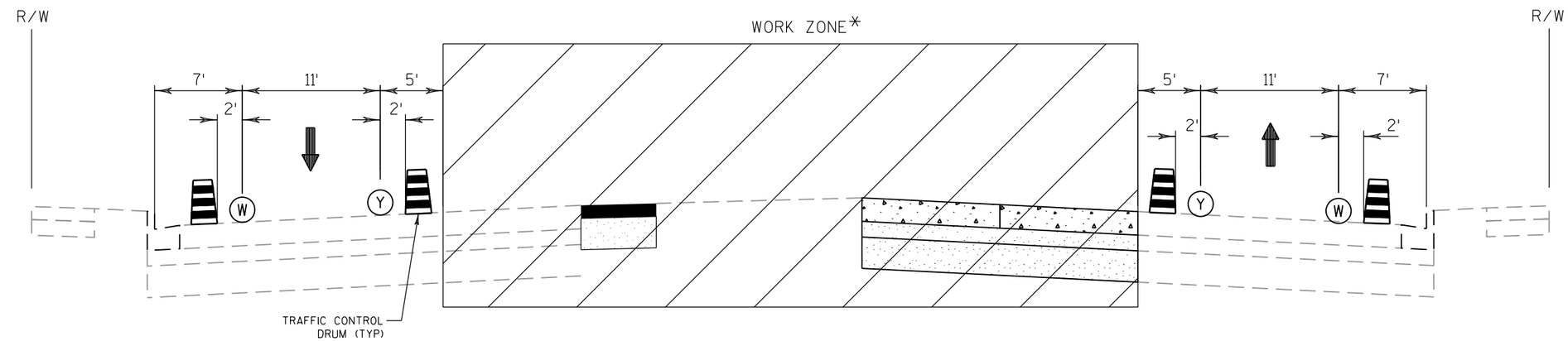
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL: TYPICAL SECTIONS	SHEET 219	E

2



STAGE 1A
17TH STREET

* WORK ZONE ONLY PRESENT SOUTH OF VLIET STREET



STAGE 1B
17TH STREET

(W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

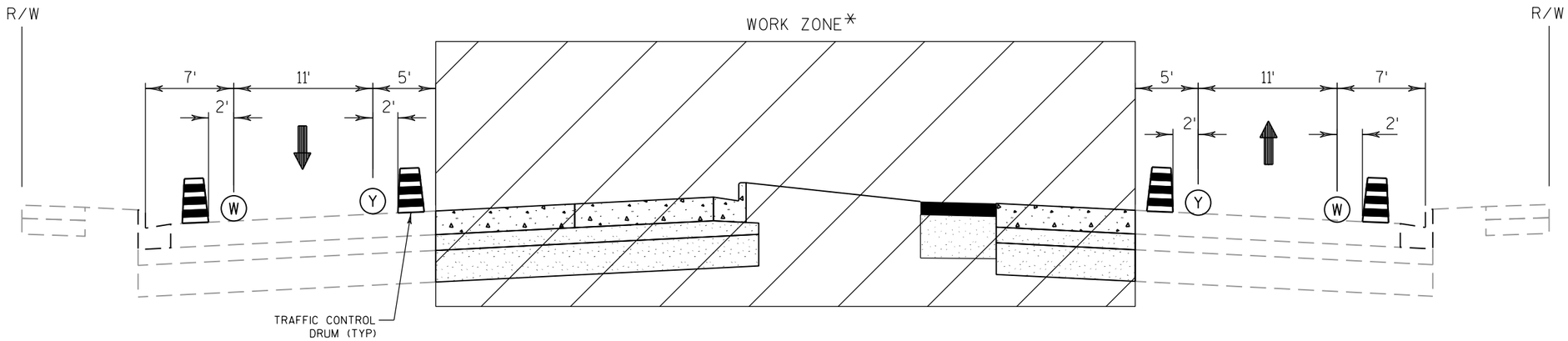
(Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

(TW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

(TY) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

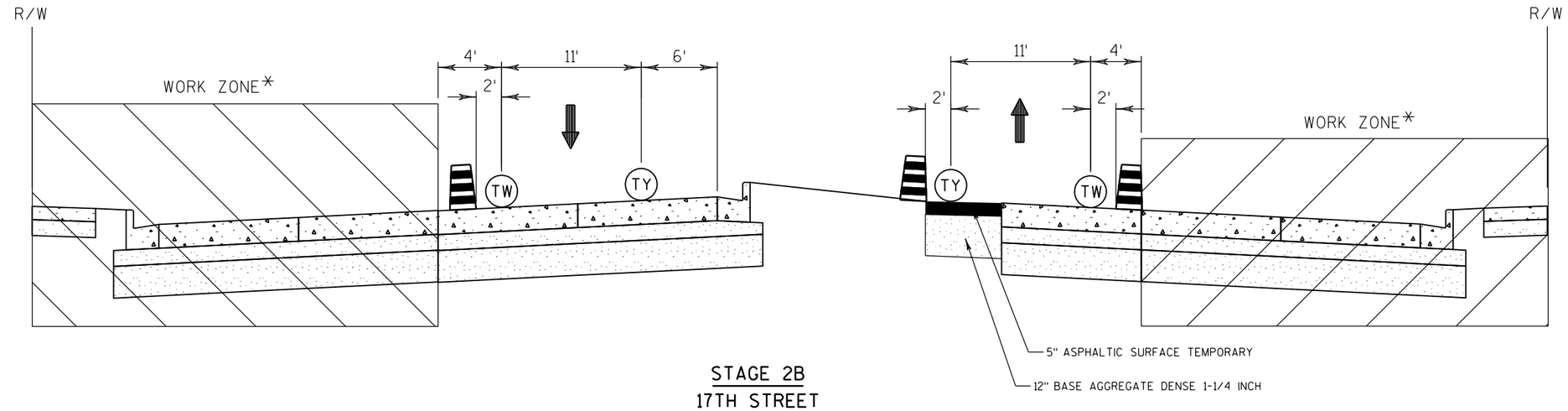
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL: TYPICAL SECTIONS	SHEET 220	E

2



STAGE 2A
17TH STREET

* WORK ZONE ONLY PRESENT NORTH OF VLIET STREET



STAGE 2B
17TH STREET

(W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

(Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

(TW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

(TY) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

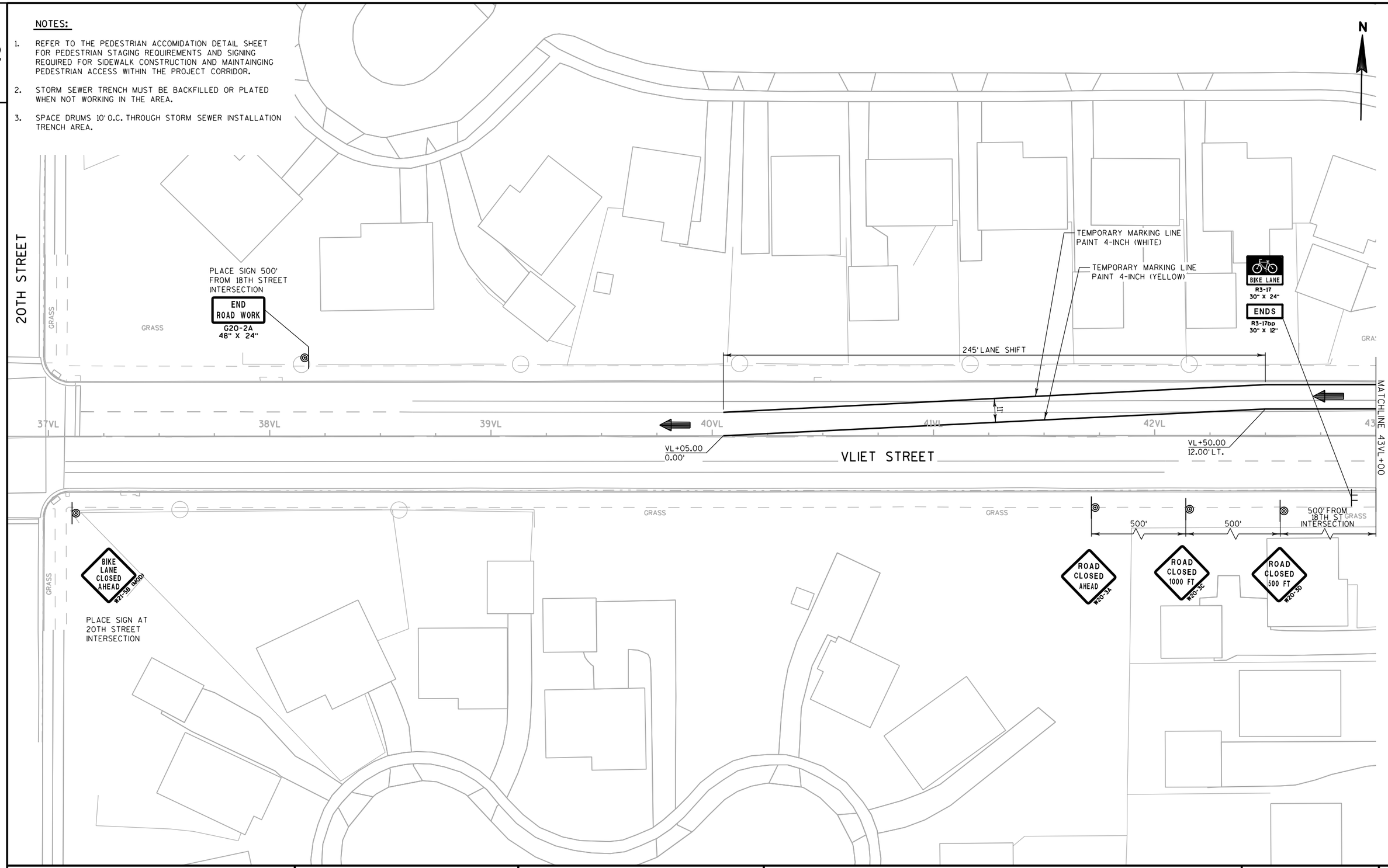
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL: TYPICAL SECTIONS	SHEET 221	E

2

2

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

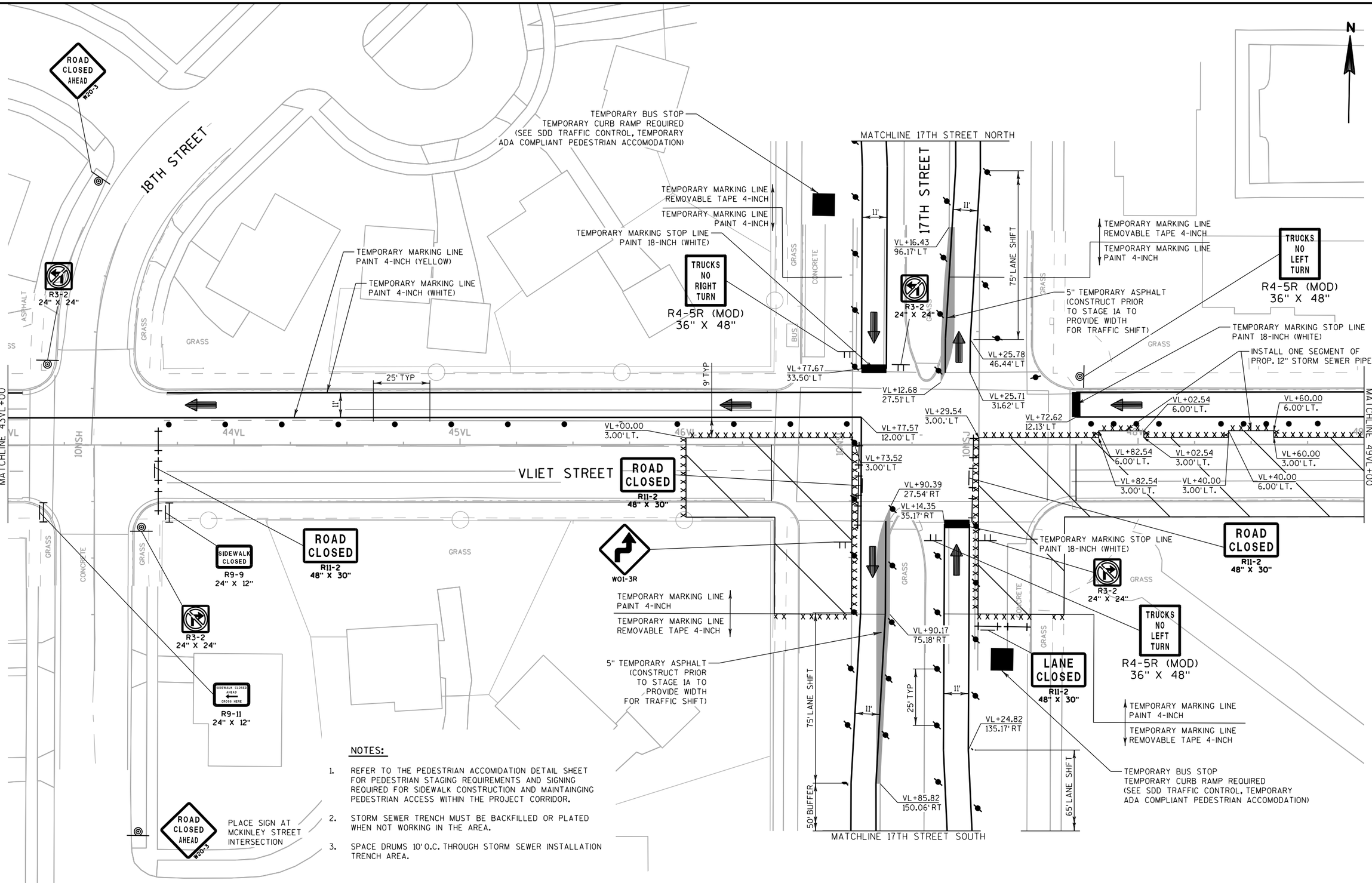


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 222	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\113058002001_s1.dgn PLOT DATE : 7/6/2022 PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



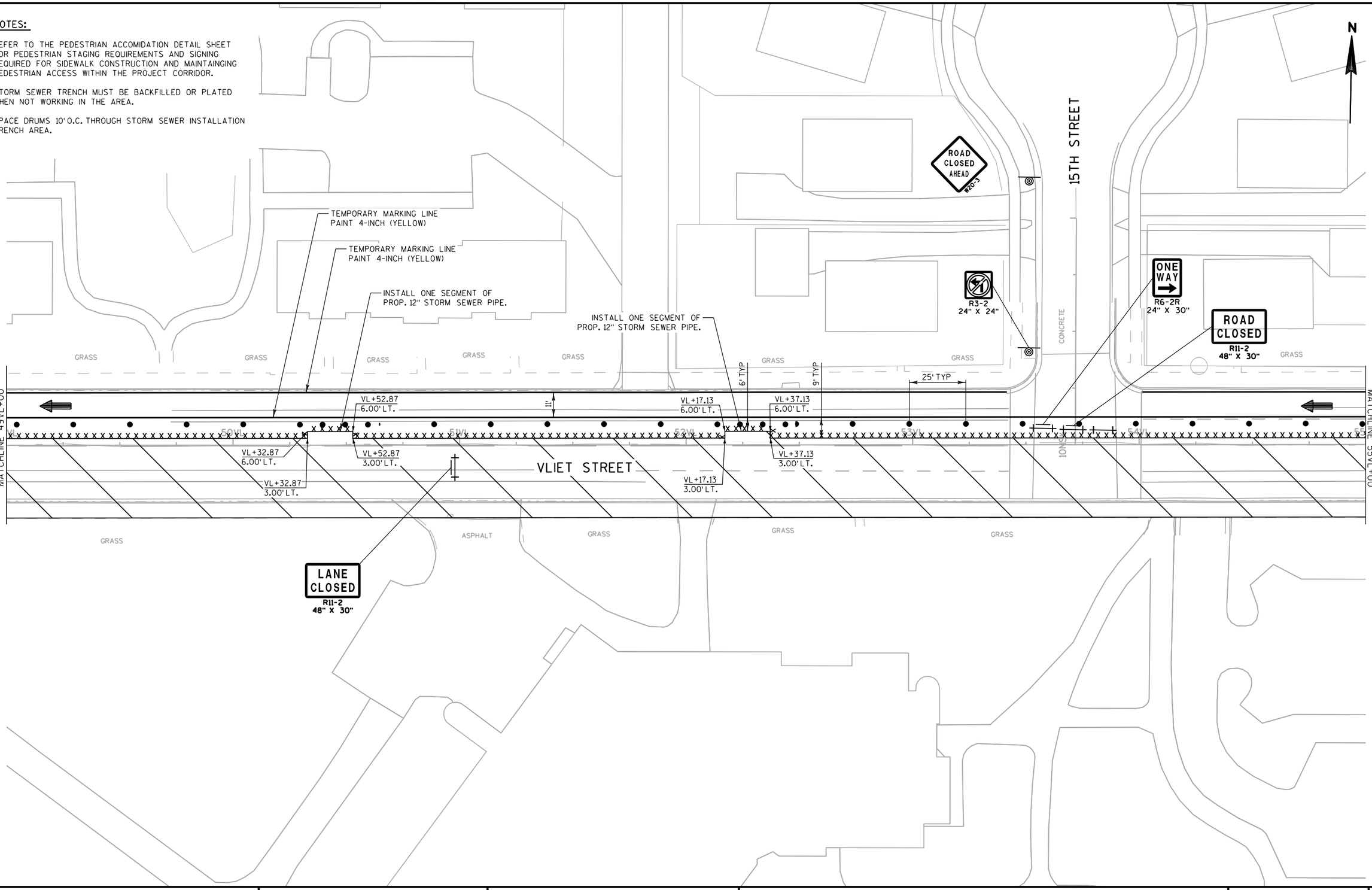
NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 223	E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 224	E

2

2

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

14TH STREET

N

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

1 STORY BRICK BUILDING

1 STORY BRICK/FRAME BUILDING

3 STORY BRICK/CONC. BUILDING #1322-1324

1 STORY METAL STRUCTURE

1 STORY METAL BUILDING #1312

GRASS

25' TYP

9' TYP

6' TYP

11'

MATCHLINE 55VL+00

MATCHLINE 61VL+00

VL+01.86 6.00'LT.

VL+21.86 6.00'LT.

VL+97.63 6.00'LT.

VL+17.63 6.00'LT.

VL+81.23 6.00'LT.

VL+01.23 6.00'LT.

VL+72.68 6.00'LT.

VL+92.68 6.00'LT.

VL+67.80 6.00'LT.

VL+87.80 6.00'LT.

VL+01.86 3.00'LT.

VL+21.86 3.00'LT.

VL+97.63 3.00'LT.

VL+17.63 3.00'LT.

VL+81.23 3.00'LT.

VL+01.23 3.00'LT.

VL+72.68 3.00'LT.

VL+92.68 3.00'LT.

VL+67.80 3.00'LT.

VL+87.80 3.00'LT.

VLIET STREET

57VL

58VL

59VL

60VL

61VL

3 STORY STUCCO/BRICK BUILDING #1335

1 1/2 STORY STONE/BRICK/FRAME BUILDING #1327-1323

2 STORY STONE/BRICK BUILDING #1307-1311

2 1/2 STORY BRICK BUILDING #1301

CONCRETE PAVEMENT GAP

ROAD WORK AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 225 E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

ROAD CLOSED AHEAD W20-3
PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD WORK AHEAD W20-3
PLACE SIGN AT CHERRY STREET INTERSECTION

13TH STREET

12TH STREET

ONE WAY
R6-2R
24" X 30"

ROAD CLOSED
R11-2
48" X 30"

3 STORY BRICK BUILDING #1220

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

R3-2
24" X 24"

25' TYP

6' TYP

9' TYP

11'

VL+54.39
6.00' LT.

VL+54.39
3.00' LT.

VL+74.39
3.00' LT.

VL+74.39
6.00' LT.

MATCHLINE 61VL+00

62VL

63VL

64VL

65VL

VLIET STREET

1 1/2 STORY FRAME/BRICK BUILDING

2 STORY FRAME/BRICK BUILDING #1233

GRASS

CONCRETE PAVEMENT GAP

GRASS

2 STORY BRICK BUILDING #1215

2 STORY BRICK BUILDING #1211

2 STORY BRICK BUILDING #1207

2 STORY BRICK BUILDING #1201

R3-2
24" X 24"

LANE CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

12TH LANE

BIKE LANE
R3-17
30" X 24"

ENDS
R3-17DD
30" X 12"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

180' LANE SHIFT

MATCHLINE A

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

ROAD CLOSED AHEAD W20-3
PLACE SIGN AT MCKINLEY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3
PLACE SIGN AT MCKINLEY STREET INTERSECTION

ROAD WORK AHEAD W20-3
PLACE SIGN AT MCKINLEY STREET INTERSECTION

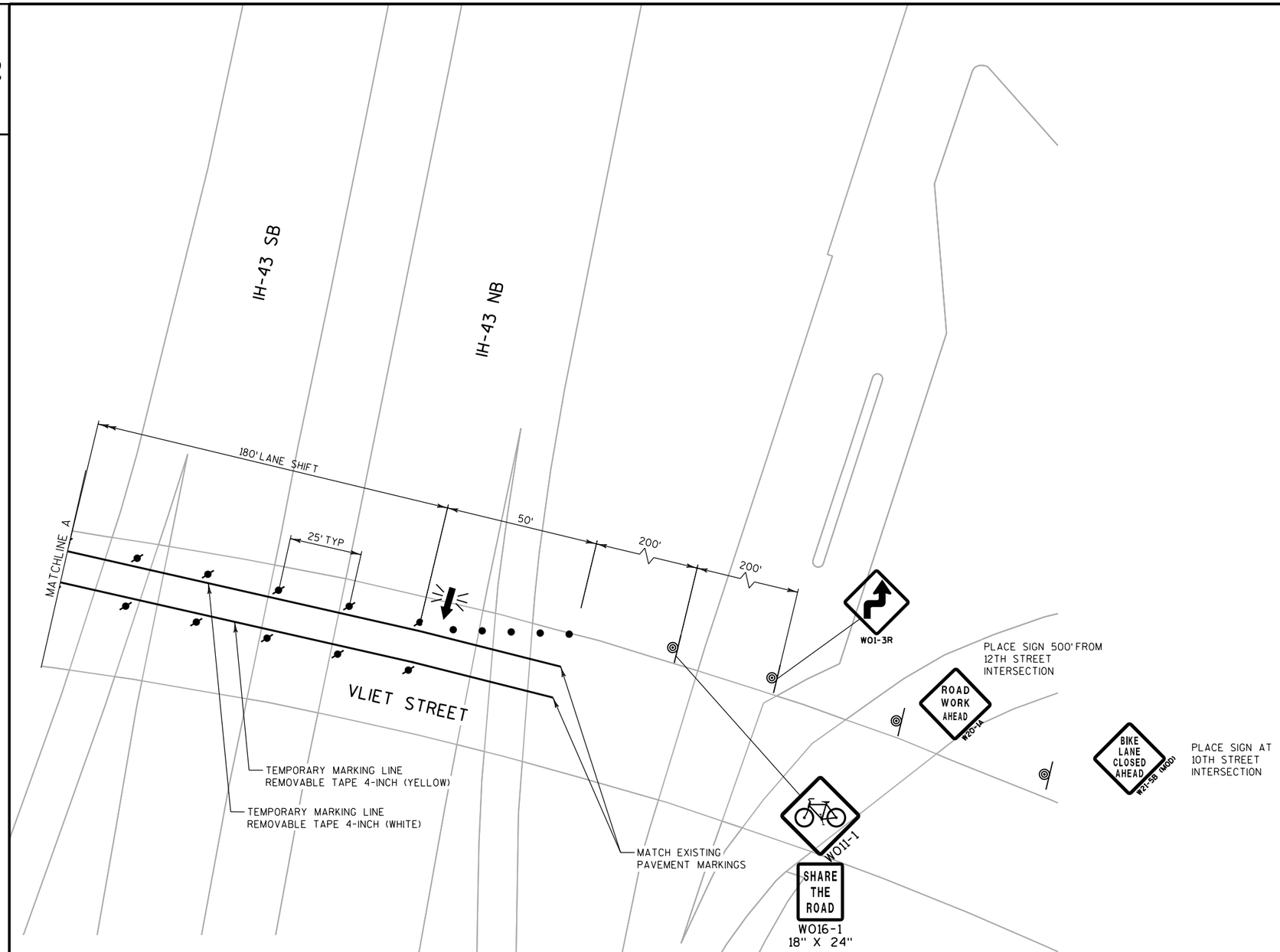
N

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic Control\113d30024005_s1.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



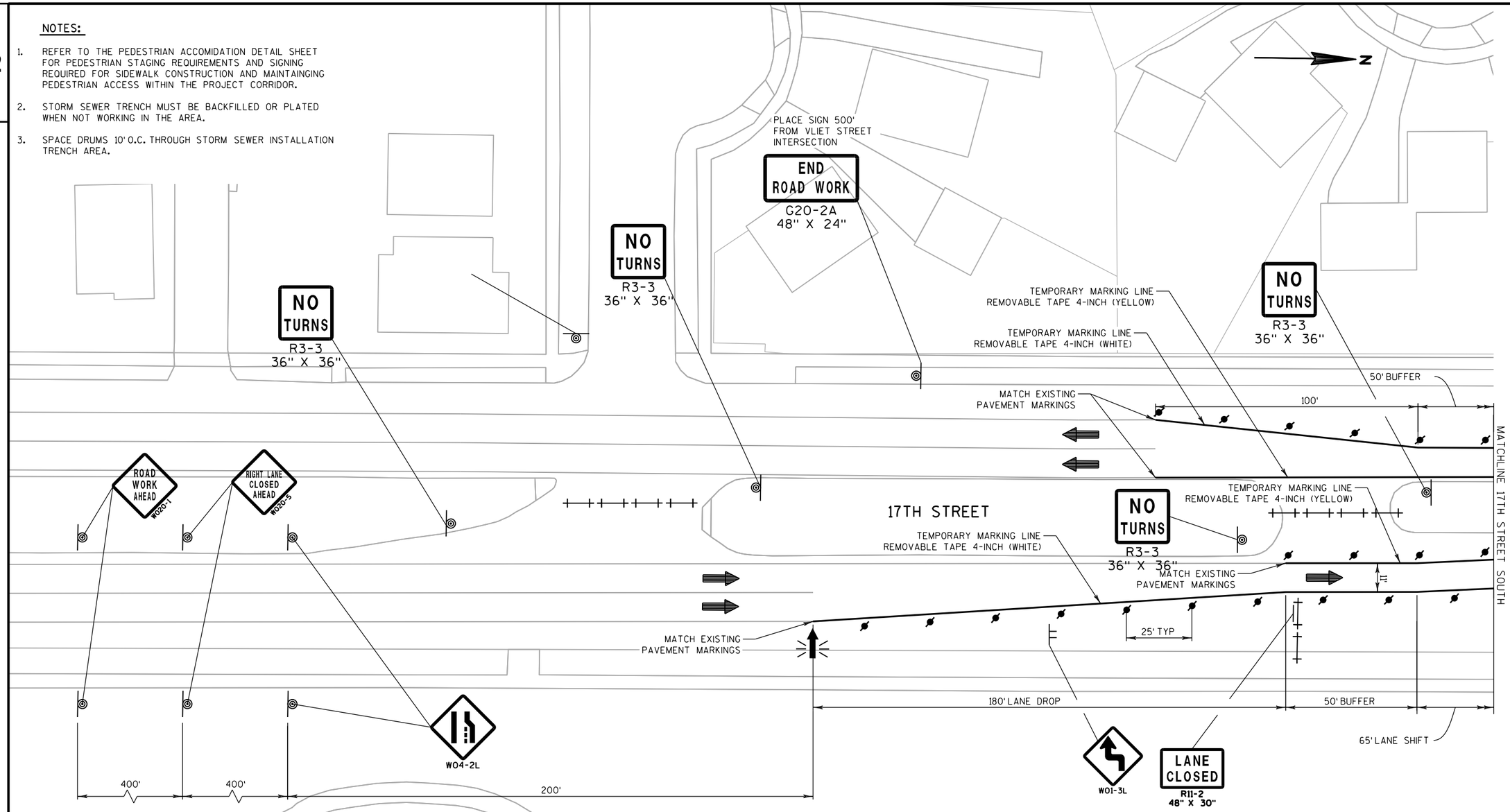
NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 227	E

NOTES:

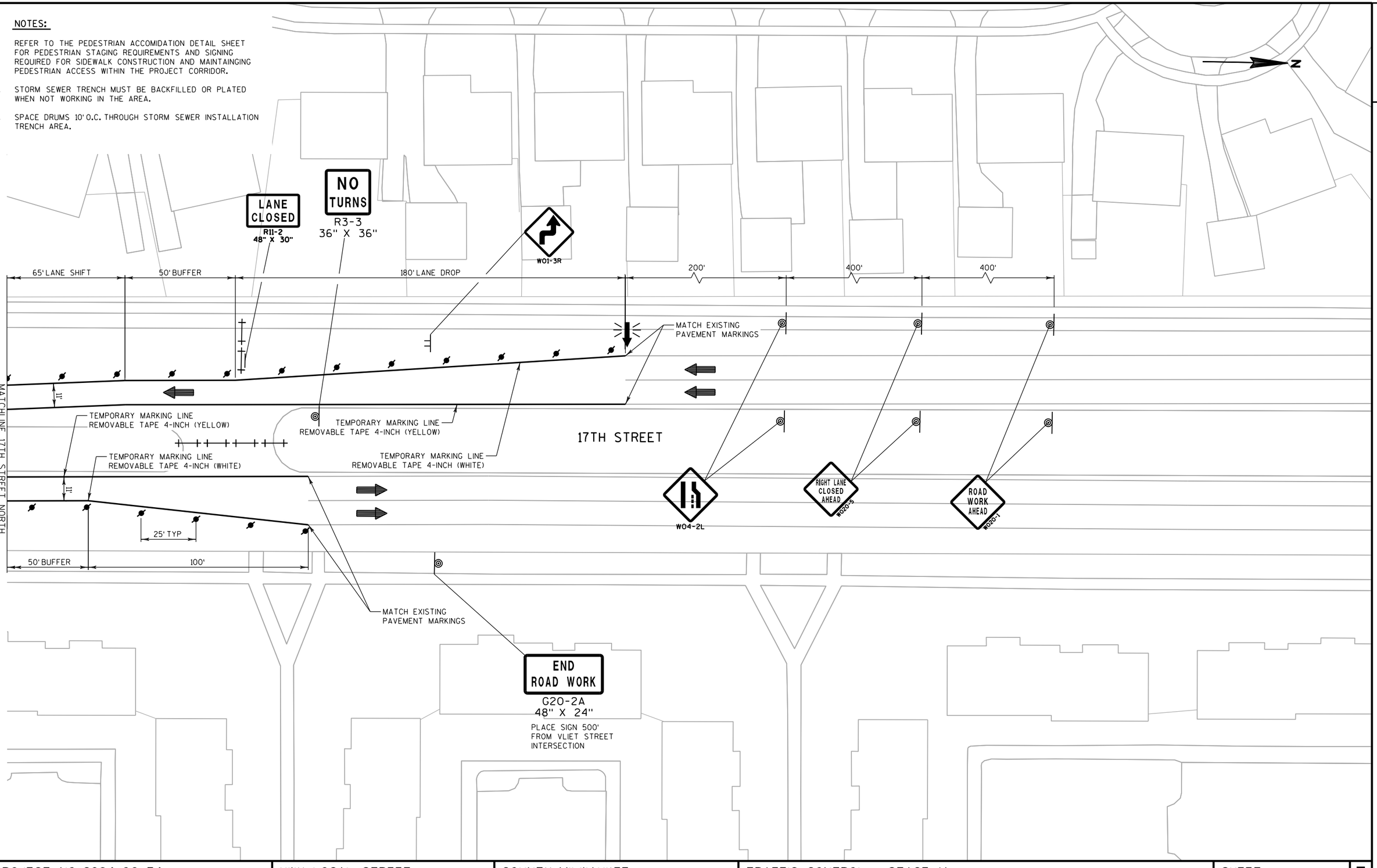
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 228 E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\113d56024008_s1.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

N

PLACE SIGN 500' FROM VLIET STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

R3-2
24" X 24"

NO TURNS
R3-3
36" X 36"

NO TURNS
R3-3
36" X 36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

MATCH EXISTING
PAVEMENT MARKINGS

100'
DOWNSTREAM TAPER

ROAD WORK AHEAD
W20-1

LEFT LANE CLOSED AHEAD
W20-5

W4-2R

17TH STREET

100'

MATCHLINE 1B1

MATCH EXISTING
PAVEMENT MARKINGS

180' LANE DROP

200'

400'

400'

W1-3R

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 230	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\Traffic Control\1146d38024009_s1.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

N

W01-3R

NO TURNS
R3-3
36" X 36"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH (WHITE)

TEMPORARY BUS STOP
TEMPORARY CURB RAMP REQUIRED
(SEE SDD TRAFFIC CONTROL, TEMPORARY
ADA COMPLIANT PEDESTRIAN ACCOMODATION)

TEMPORARY MARKING LINE
PAINT 4-INCH

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH

49'VL

100'
DOWNSTREAM TAPER

50' BUFFER

123' LANE SHIFT

122' LANE SHIFT

50' BUFFER

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

VL+57.37
32.00' RT

VL+68.67
33.50' LT

11'

10'NSI

BUS

CONCRETE

GRASS

KEEP TEMP ASPHALT
FOR STAGE 2B TRAFFIC

LANE CLOSED
R11-2L
48" X 30"

25' TYP

MATCHLINE 1B1

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

R3-2
24" X 24"

KEEP TEMP ASPHALT
FOR STAGE 2B TRAFFIC

LANE CLOSED
R11-2L
48" X 30"

17TH STREET

MATCHLINE 1B2

VL+45.68
23.12' LT

VL+34.33
35.17' RT

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

50'

122' LANE SHIFT

100'

123' LANE SHIFT

50' BUFFER

100'
DOWNSTREAM TAPER

R3-2
24" X 24"

R3-2
24" X 24"

W01-3L

TEMPORARY MARKING LINE
PAINT 4-INCH

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH

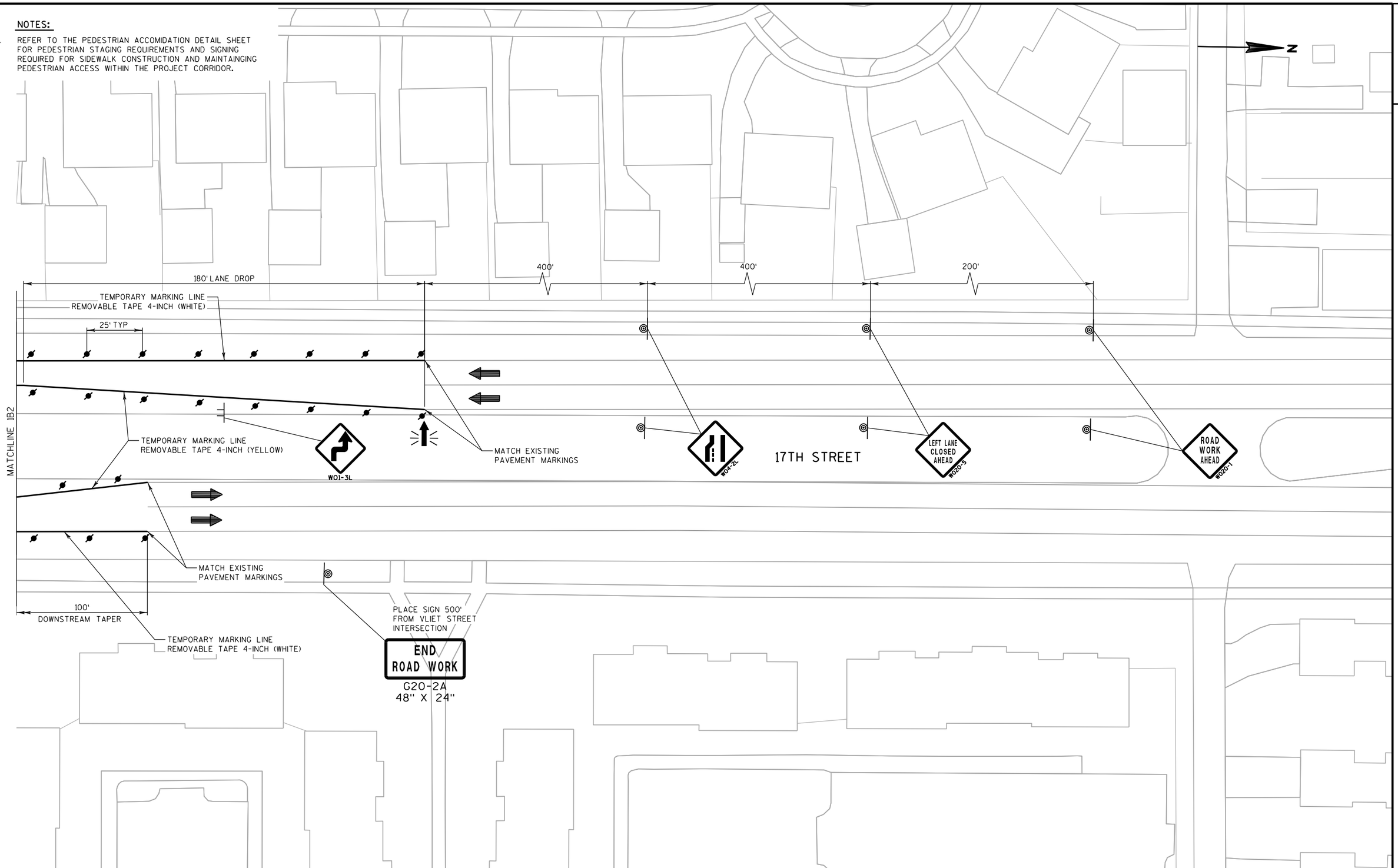
TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH (WHITE)

TRAFFIC CONTROL DEVICES ON
VLIET STREET ARE IN THE
SAME LOCATION AS STAGE 1A

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 231	E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

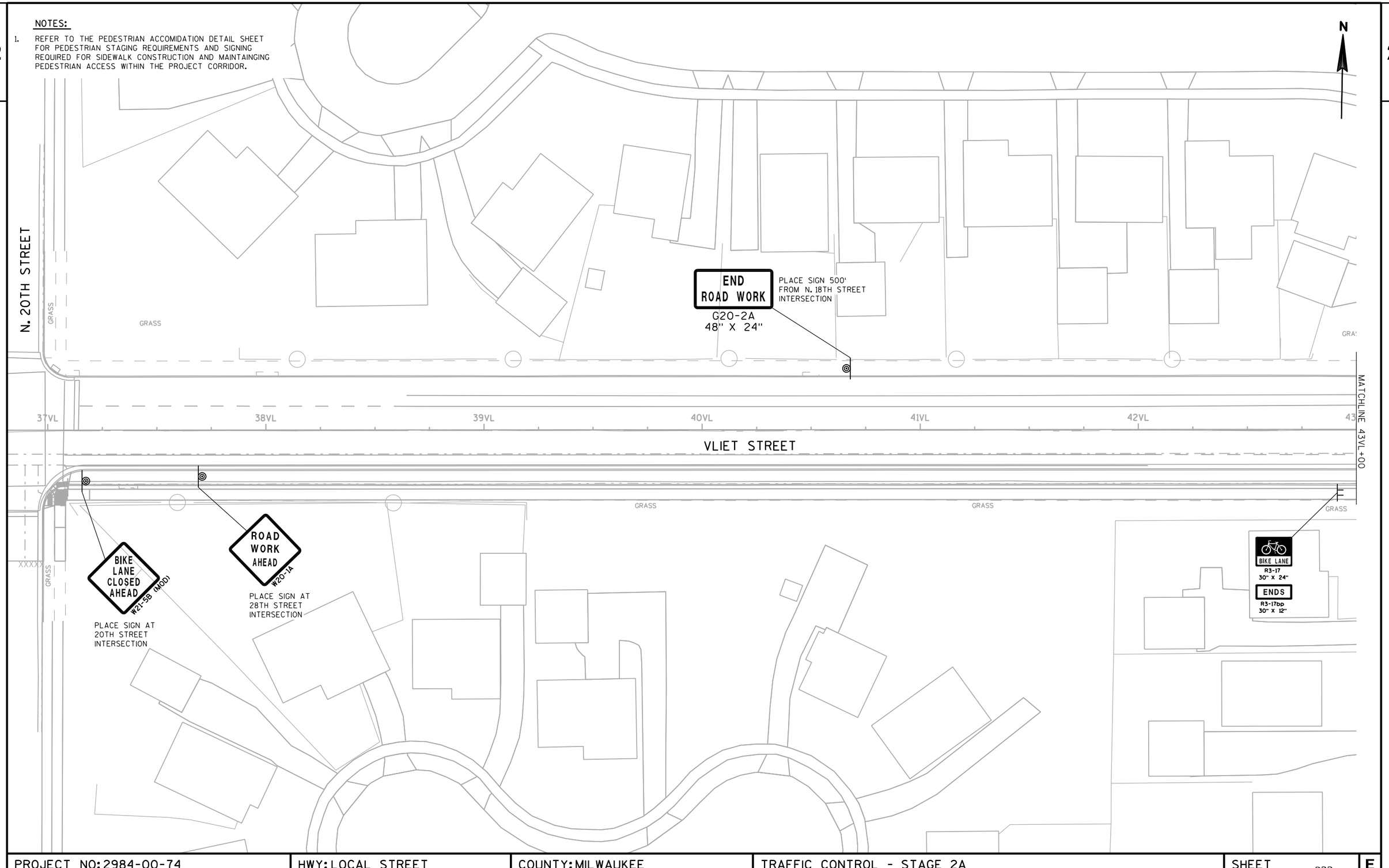


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 232 E

2

NOTES:

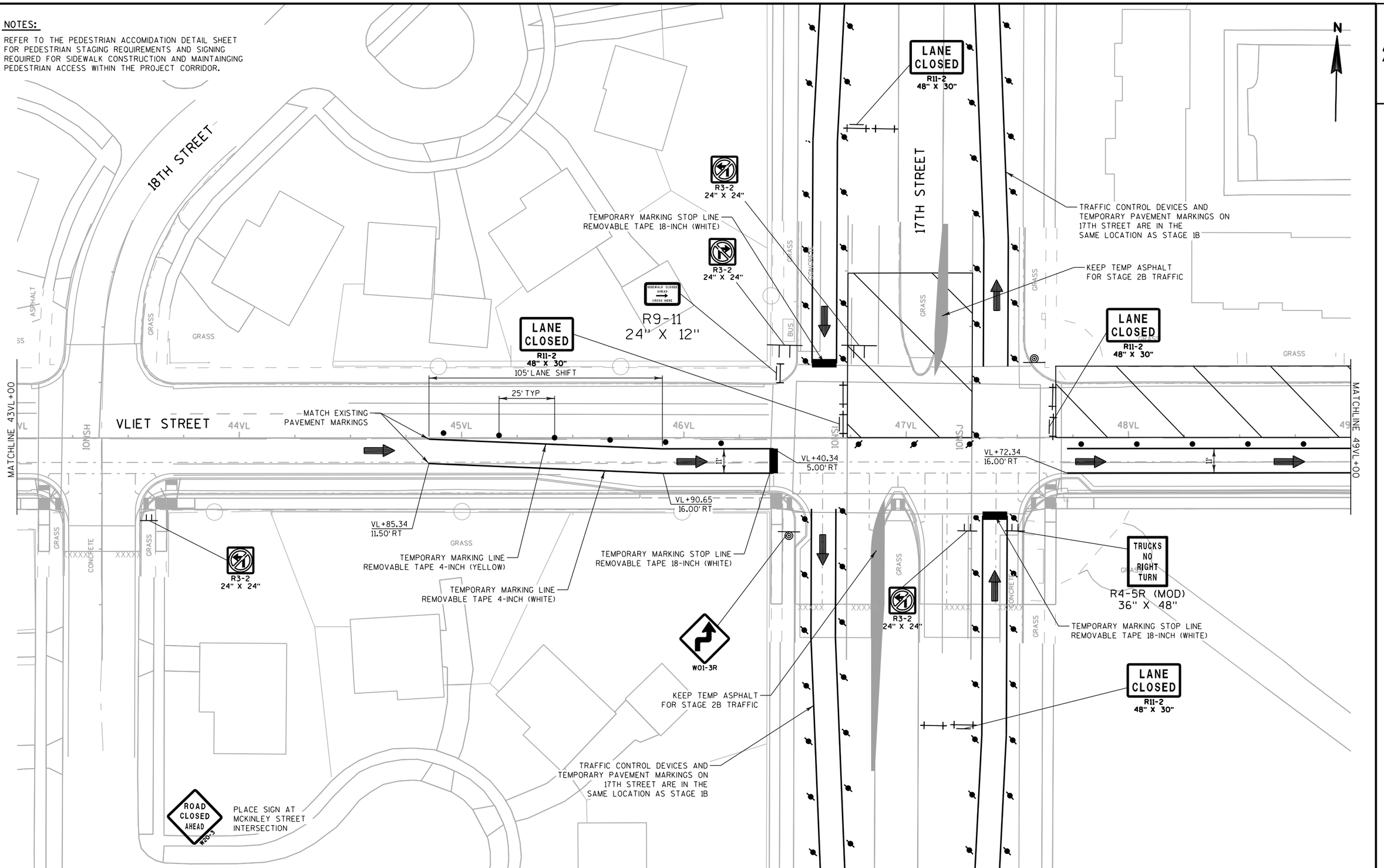
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 233 E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



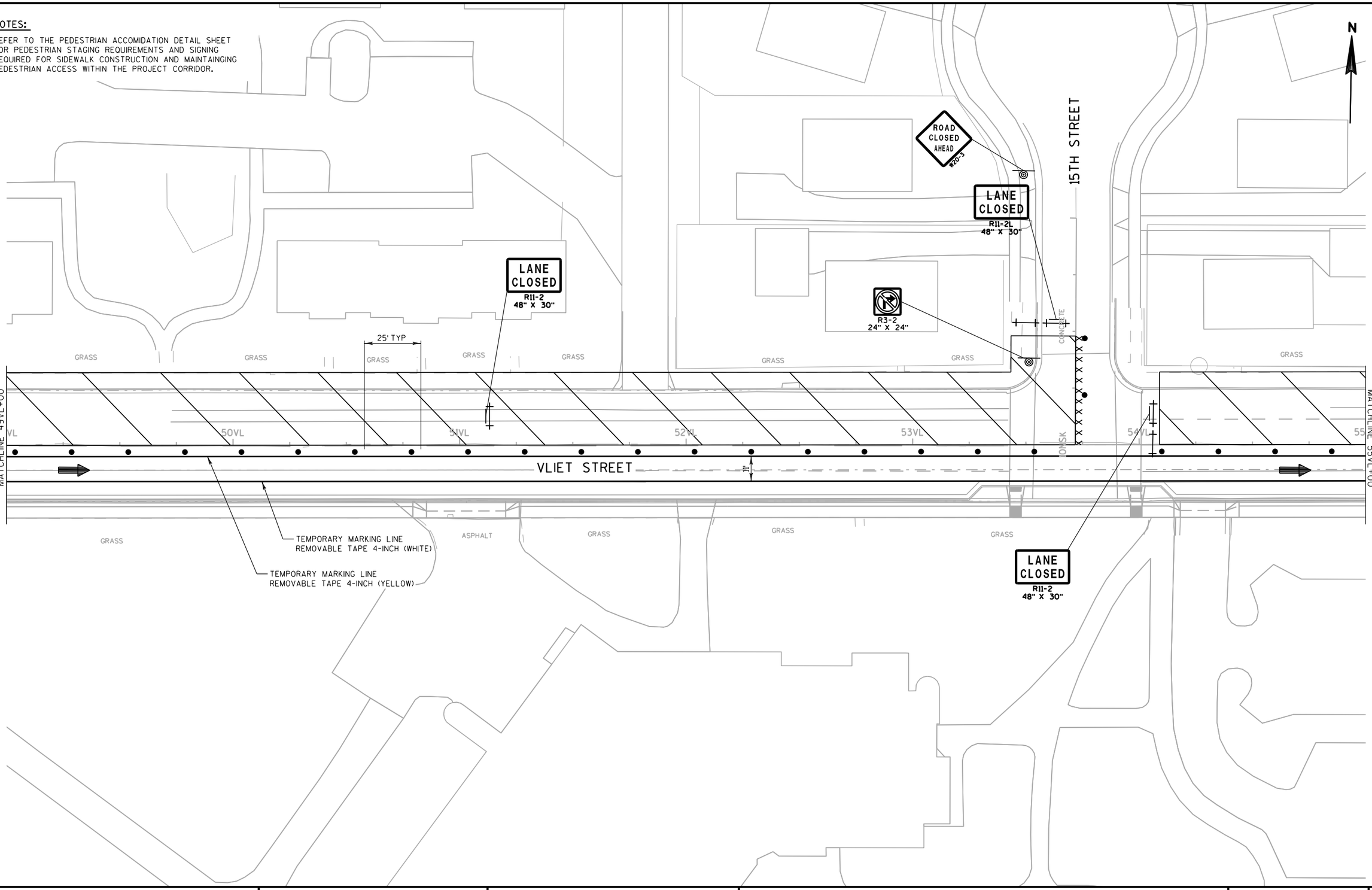
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 234 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\2120556.02\2013_s2.dgn
Thursday, June 23, 2022 7:36:37 AM BY : ecastellan
PLOT NAME :
PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Sheets\Traffic Control\2984-00-74_TC_Stage2A_s2.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD WORK AHEAD W20-3

14TH STREET

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ONE WAY R6-2R 24" X 30"

LANE CLOSED R11-2 48" X 30"

CONCRETE PAVMENT GAP

1 STORY BRICK BUILDING

1 STORY BRICK BUILDING

1 STORY BRICK/STONE /FRAME BUILDING

1 STORY BRICK BUILDING

2 STORY BRICK/FRAME BUILDING #1328

3 STORY BRICK/CONC. BUILDING #1322-1324

1 STORY METAL STRUCTURE

1 STORY METAL BUILDING #1312

GRASS

GRASS 25' TYP

GRASS

MATCHLINE 55VL+00

56VL

57VL

58VL

59VL

60VL

MATCHLINE 61VL+00

11'

VLIET STREET

11'

GRASS

R3-2 24" X 24"

GRASS

R3-2 24" X 24"

3 STORY STUCCO/BRICK BUILDING #1335

1 1/2 STORY STONE/BRICK/FRAME BUILDING #1327-1323

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

2 STORY STONE/BRICK BUILDING #1307-1311

2 1/2 STORY BRICK BUILDING #1301

R3-2 24" X 24"

GRASS

ROAD WORK AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Products\2132202415_s2.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

ROAD CLOSED AHEAD W20-3
PLACE SIGN AT CHERRY STREET INTERSECTION

13TH STREET

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

ONE WAY
R6-2R
24" X 30"

3 STORY BRICK BUILDING #1220

SIDEWALK CLOSED
R9-9
24" X 12"

R3-2
24" X 24"

25' TYP

ROAD WORK AHEAD W20-3
PLACE SIGN AT CHERRY STREET INTERSECTION

R3-2
24" X 24"

12TH STREET

BIKE LANE
R3-17
30" X 24"

ENDS
R3-17bp
30" X 12"

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

500' 500' 500'

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

MATCHLINE 61VL+00

62VL 63VL 64VL 65VL

VLIET STREET

1 1/2 STORY FRAME/BRICK BUILDING

2 STORY FRAME/BRICK BUILDING #1233

GRASS

R3-2
24" X 24"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

2 STORY BRICK BUILDING #1215

2 STORY BRICK BUILDING #1211

2 STORY BRICK BUILDING #1207

2 STORY BRICK BUILDING #1201

12TH LANE

R3-2
24" X 24"

END ROAD WORK
G20-2A
48" X 24"

BIKE LANE CLOSED AHEAD W21-5B (MOD)
PLACE SIGN AT 10TH STREET INTERSECTION

ROAD CLOSED AHEAD W20-3
PLACE SIGN AT MCKINLEY STREET INTERSECTION

ROAD WORK AHEAD W20-3
PLACE SIGN AT MCKINLEY STREET INTERSECTION

N

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 237 E

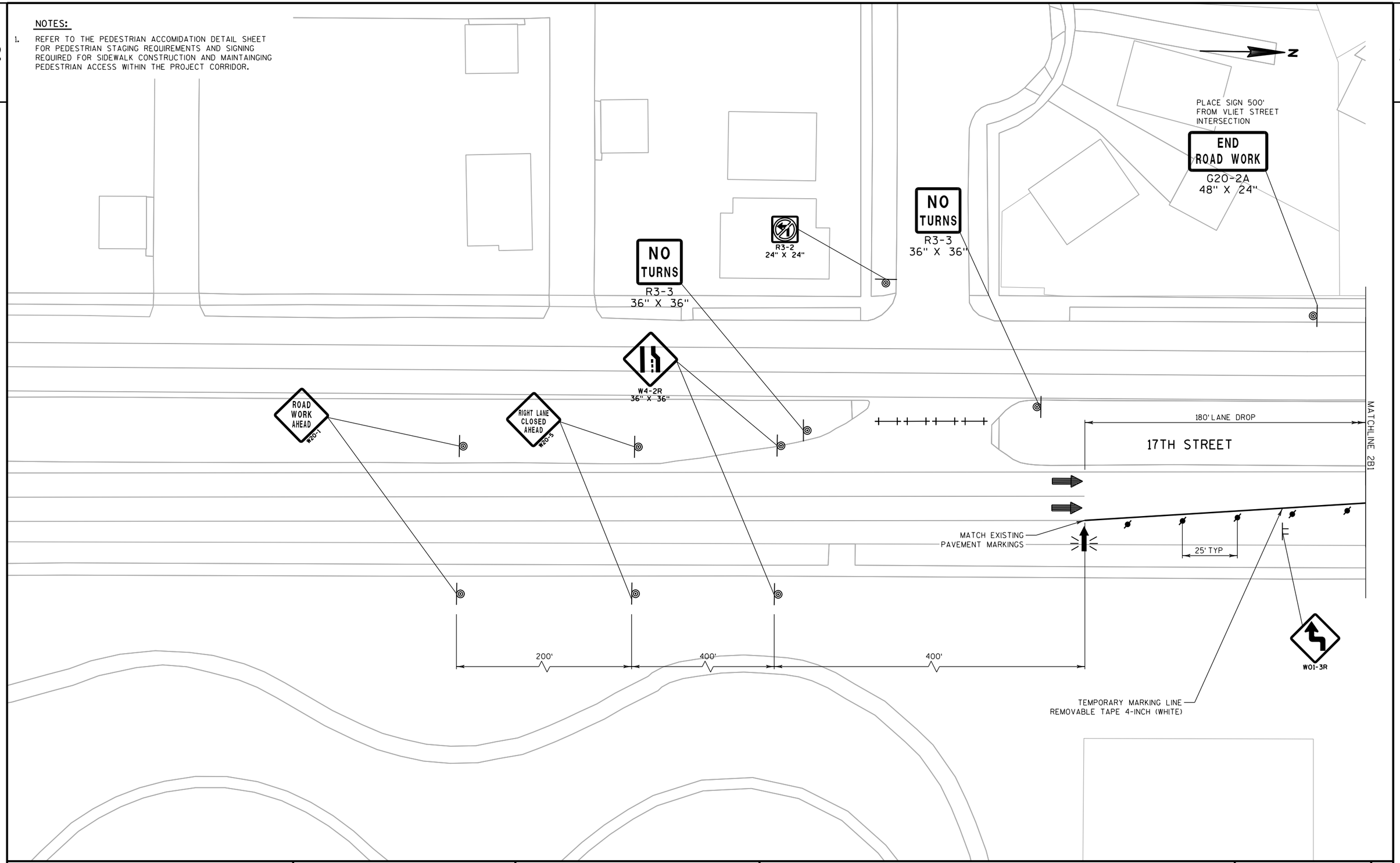
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\212cd4026016_s2.dgn
PLOT DATE : 7/06/2022 11:09:40 AM
PLOT BY : ecastellan
PLOT NAME :
PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET 238	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic Control\Stage 2\63342_TC_STG2B_20221213_s2B1.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

N

VLIET STREET

17TH STREET

NO TURNS
R3-3
36" X 36"

CONSTRUCT TEMPORARY ASPHALT FOR STAGE 3 TRAFFIC

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

100' | 50' BUFFER | 115' LANE SHIFT

MATCH EXISTING PAVEMENT MARKINGS

VL+79.42
34.84' RT

11'

180' LANE DROP

25' TYP

MATCHLINE 2B1

VL+14.34
36.81' RT

VL+73.52
0.00'

VL+88.69
36.29' LT

VL+14.71
31.68' LT

SIDEWALK CLOSED
R9-9
24" X 12"

R3-2
24" X 24"

LANE CLOSED
R11-2
48" X 30"

TEMPORARY BUS STOP
TEMPORARY CURB RAMP REQUIRED
(SEE SDD TRAFFIC CONTROL, TEMPORARY
ADA COMPLIANT PEDESTRIAN ACCOMODATION)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

65' LANE SHIFT | 50' | 180' LANE DROP

MATCHLINE 2B2

MATCH EXISTING PAVEMENT MARKINGS

25' TYP

75' LANE SHIFT | 50' BUFFER | 100'

50' BUFFER | 65' LANE SHIFT

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH (WHITE)

TRAFFIC CONTROL DEVICES ON VLIET STREET ARE IN THE SAME LOCATION AS STAGE 2A

BUS

CONCRETE

GRASS

10NSJ

47VL

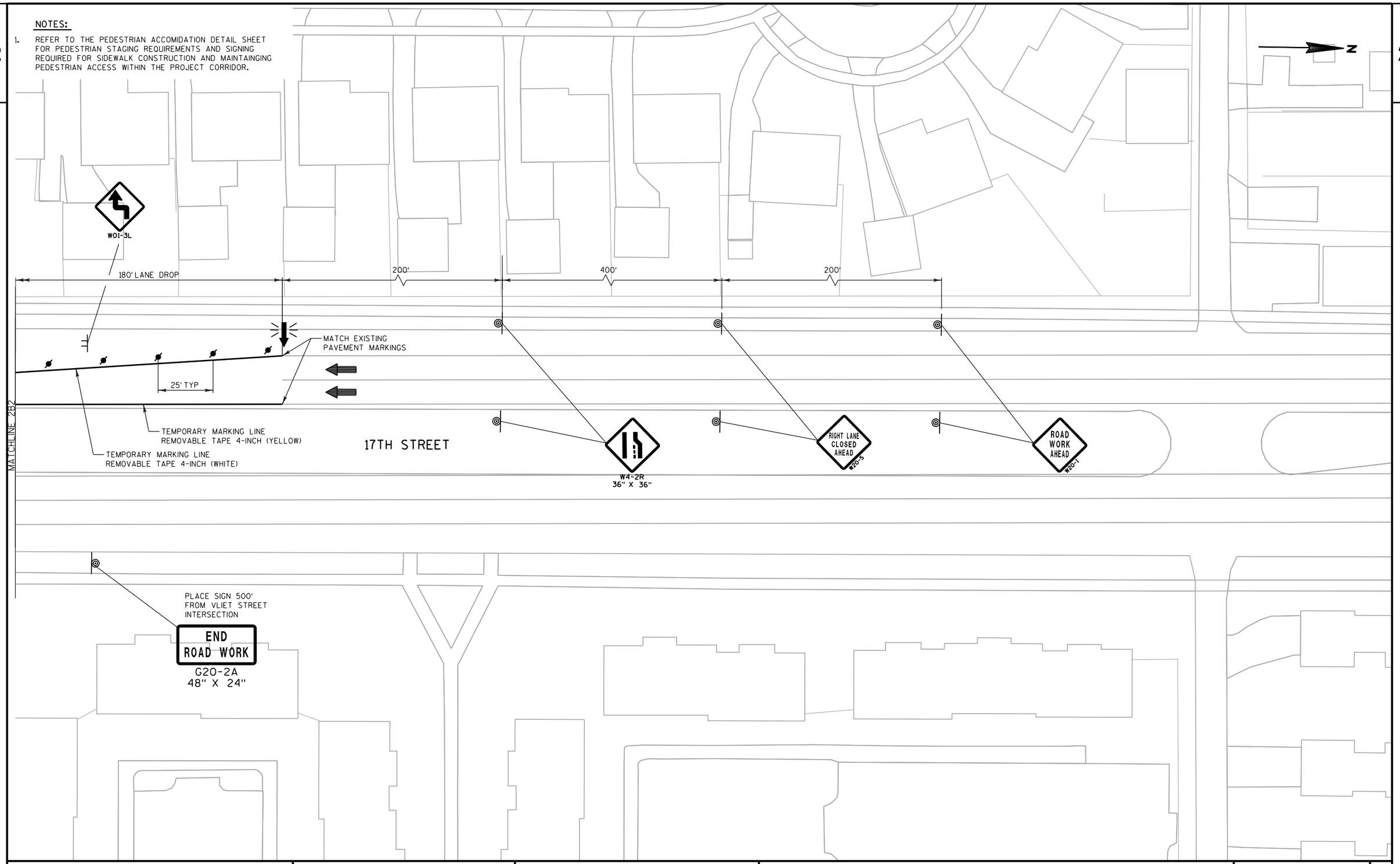
48VL

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic\Drawings\TCP_STG2B_20240618_s2.dgn PLOT DATE : 26 Jun 2024 PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

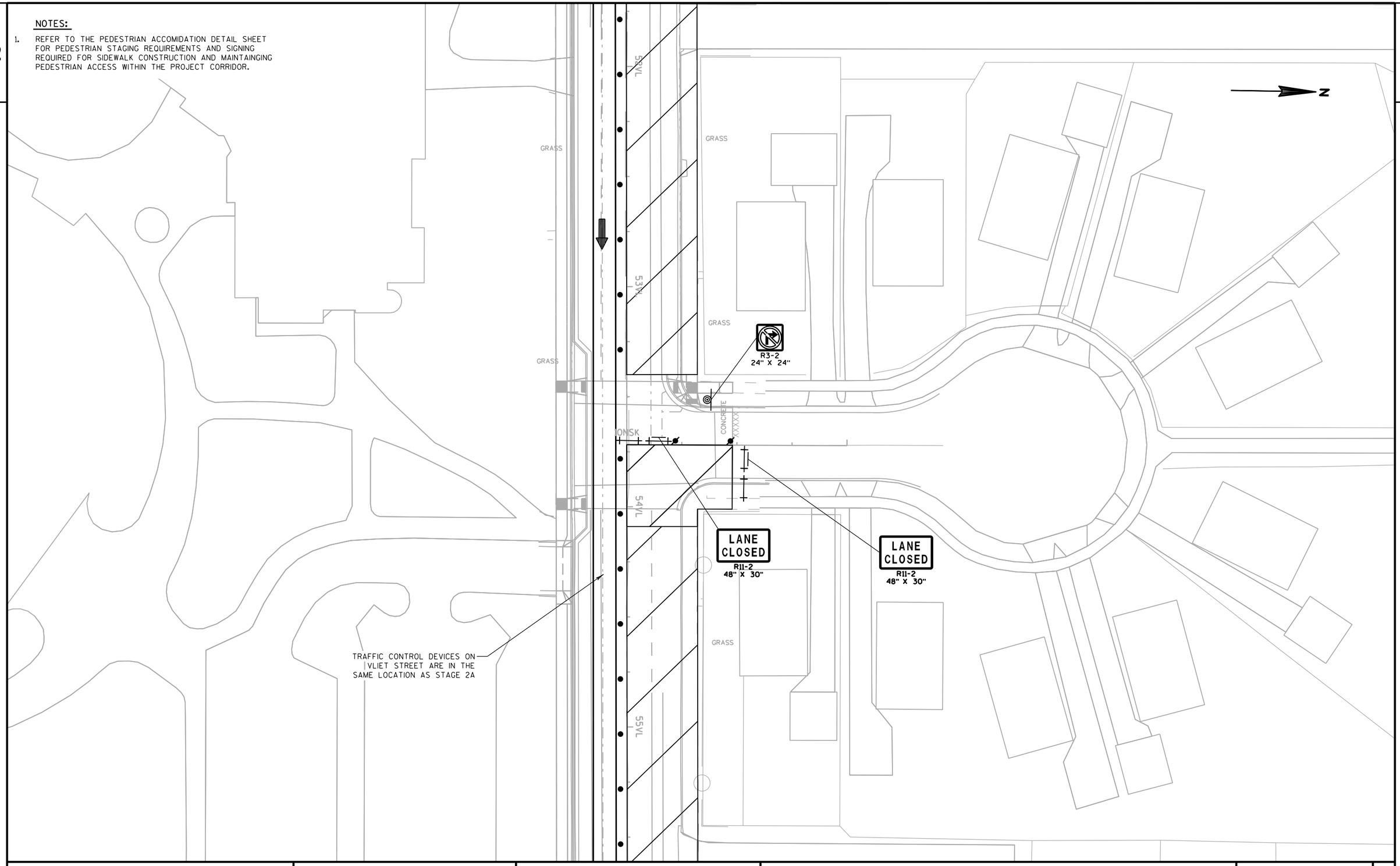


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET 240 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic Control\2984-00-74_TC_2B_s2.dgn PLOTTED : 7/26/2022 2:13:03 PM BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



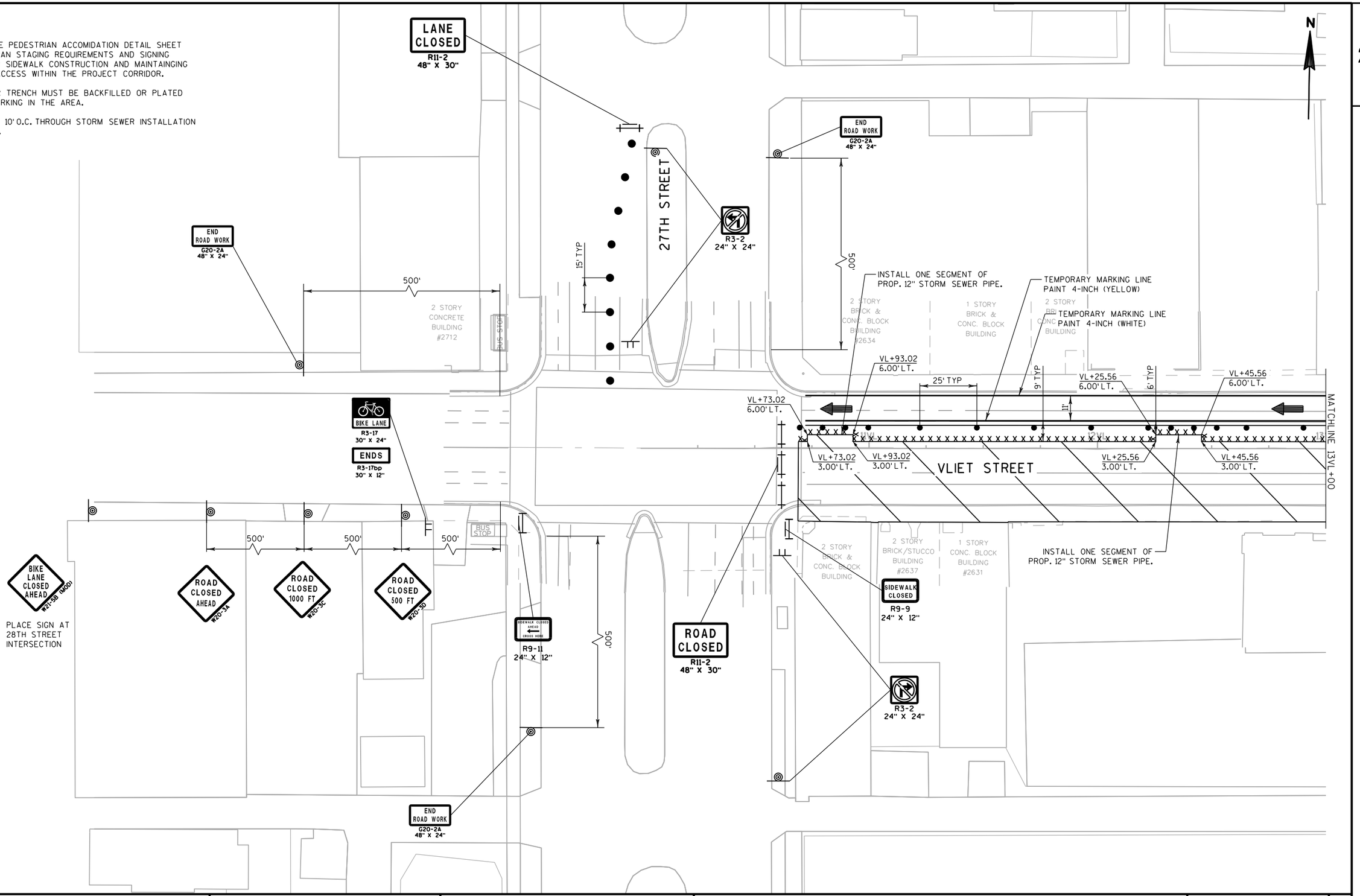
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET 241 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Electrical Drawings\Traffic Control\63342_TC_Stage2B_20240220_s2.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 242	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic\Sheets\TCP_Stage3_20210402_s3.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

2

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

26TH STREET

25TH STREET

N

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

1 STORY BRICK/CONC. BUILDING #2608

1 STORY STUCCO BUILDING #2600

1 STORY BRICK BUILDING

1 STORY BRICK BUILDING #2526

1 1/2 STORY BRICK BUILDING #2506

2 1/2 STORY BRICK/STUCCO BUILDING #2500

6' TYP

9' TYP

11'

25' TYP

MATCHLINE 13VL+00

MATCHLINE 19VL+00

VL+43.57 6.00'LT.

VL+43.57 3.00'LT.

VL+63.57 6.00'LT.

VL+63.57 3.00'LT.

VL+16.75 6.00'LT.

VL+16.75 3.00'LT.

VL+36.75 6.00'LT.

VL+36.75 3.00'LT.

VLIET STREET

CONC

GRASS

CONCRETE

1 STORY CONC. BLOCK BUILDING #2605

1 STORY BRICK BUILDING #2527

2 1/2 STORY BRICK BUILDING #2515

#2513 #2511 #2509 #2505

3 STORY BRICK BUILDING

2 STORY BRICK BUILDING #2463-65

PLACE SIGN AT MCKINLEY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 243 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\2984-00-74_s3.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

24TH PLACE

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

24TH STREET

N

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

25' TYP

11'

9' TYP

6' TYP

GRASS

ASPHALT

GRASS

GRASS

MATCHLINE 19VL+00

MATCHLINE 25VL+00

VL+33.67 6.00'LT.

VL+33.67 3.00'LT.

VL+53.67 6.00'LT.

VL+53.67 3.00'LT.

VL+82.11 6.00'LT.

VL+82.11 3.00'LT.

VL+02.11 6.00'LT.

VL+02.11 3.00'LT.

VL+65.31 6.00'LT.

VL+65.31 3.00'LT.

VL+85.31 6.00'LT.

VL+85.31 3.00'LT.

21VL

22VL

23VL

24VL

25VL

10NB

VLIET STREET

GRASS

R3-2 24" X 24"

GRASS

GRASS

2 STORY BRICK/STONE BUILDING

1 STORY STUCCO/BRICK BUILDING

CONC.

GRASS

ASPHALT

1 STORY CONC. BLOCK BUILDING #2499

GRASS

ASPHALT

LANE CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 244 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2\13d18.02_20230523_s3.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

23RD STREET

22ND STREET

N

TEMPORARY MARKING LINE
PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

ASPHALT

INSTALL ONE SEGMENT OF
PROP. 12" STORM SEWER PIPE.

INSTALL ONE SEGMENT OF
PROP. 12" STORM SEWER PIPE.

INSTALL ONE SEGMENT OF
PROP. 12" STORM SEWER PIPE.

INSTALL ONE SEGMENT
OF PROP. 12" STORM
SEWER PIPE.

ROAD
CLOSED
R11-2
48" X 30"

GRASS

25' TYP

6' TYP

9' TYP

11'

MATCHLINE 25VL+00

MATCHLINE 31VL+00

VL+32.11
6.00'LT.

VL+52.11
6.00'LT.

VL+74.80
6.00'LT.

VL+78.81
6.00'LT.

VL+48.00
6.00'LT.

VL+32.11
3.00'LT.

VL+52.11
3.00'LT.

VL+74.80
3.00'LT.

VL+94.80
3.00'LT.

VL+78.81
3.00'LT.

VL+98.81
3.00'LT.

VL+48.00
3.00'LT.

VL+68.00
3.00'LT.

VL+94.80
6.00'LT.

VL+98.81
6.00'LT.

VL+68.00
6.00'LT.

VLIET STREET

10' TYP

R3-2
24" X 24"

CONCRETE PAVEMENT GAP

ROAD
CLOSED
R11-2
48" X 30"

ROAD
WORK
AHEAD
W20-3

PLACE SIGN AT
MCKINLEY STREET
INTERSECTION

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 245 E

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

21ST STREET

20TH STREET

N

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

INSTALL ONE SEGMENT OF PROP. 12" STORM SEWER PIPE.

ROAD CLOSED R11-2 48" X 30"

25' TYP

6' TYP

9' TYP

11'

MATCHLINE 31VL+00

MATCHLINE 37VL+00

VL+78.99 6.00'LT.

VL+78.99 3.00'LT.

VL+98.99 3.00'LT.

VL+98.99 6.00'LT.

VL+27.07 6.00'LT.

VL+27.07 3.00'LT.

VL+47.07 3.00'LT.

VL+47.07 6.00'LT.

VLIET STREET

LANE CLOSED R11-2 48" X 30"

GRASS

ASPHALT

CONCRETE

NOTES:

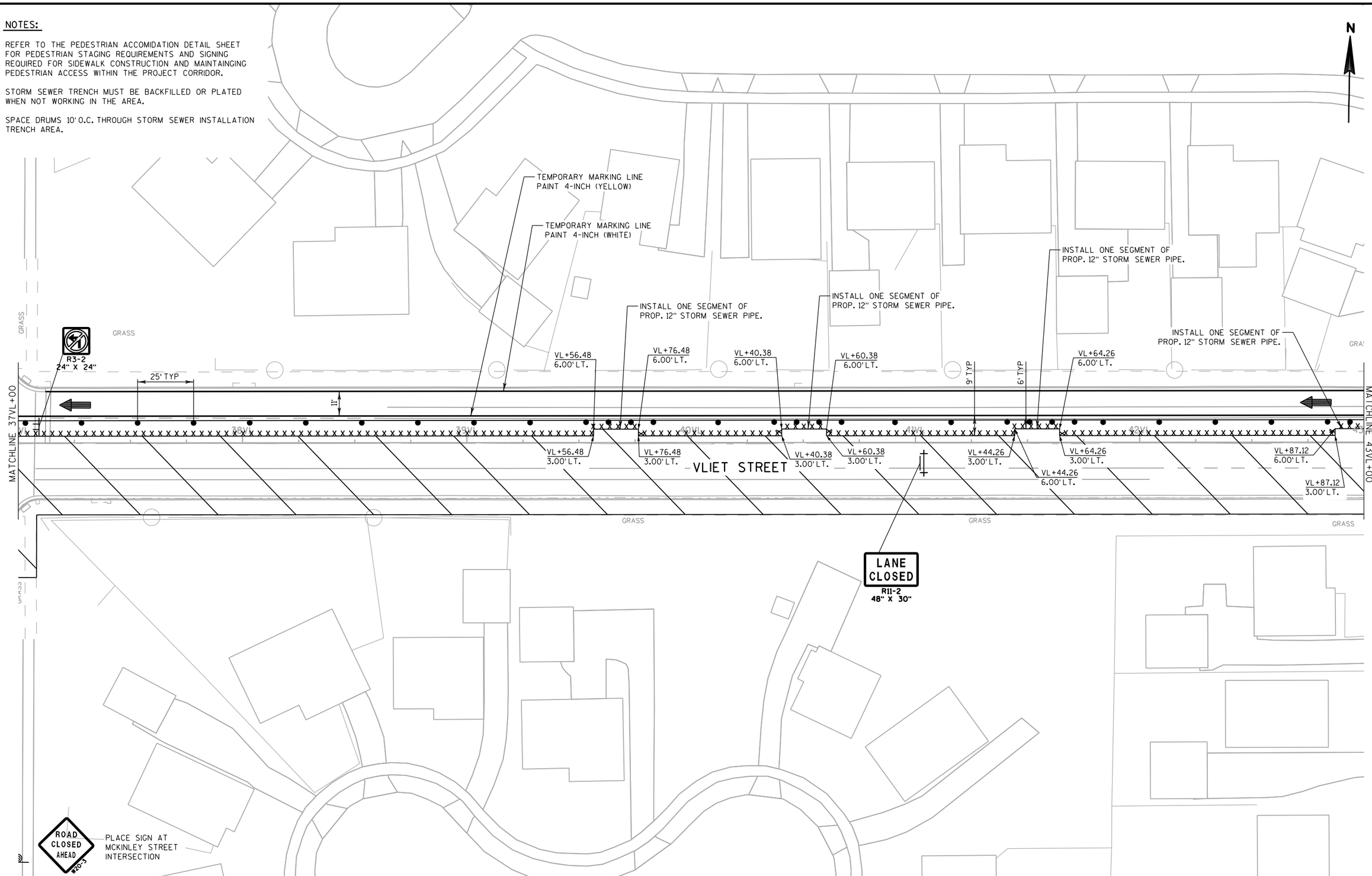
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PLACE SIGN AT MCKINLEY STREET INTERSECTION

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 246 E

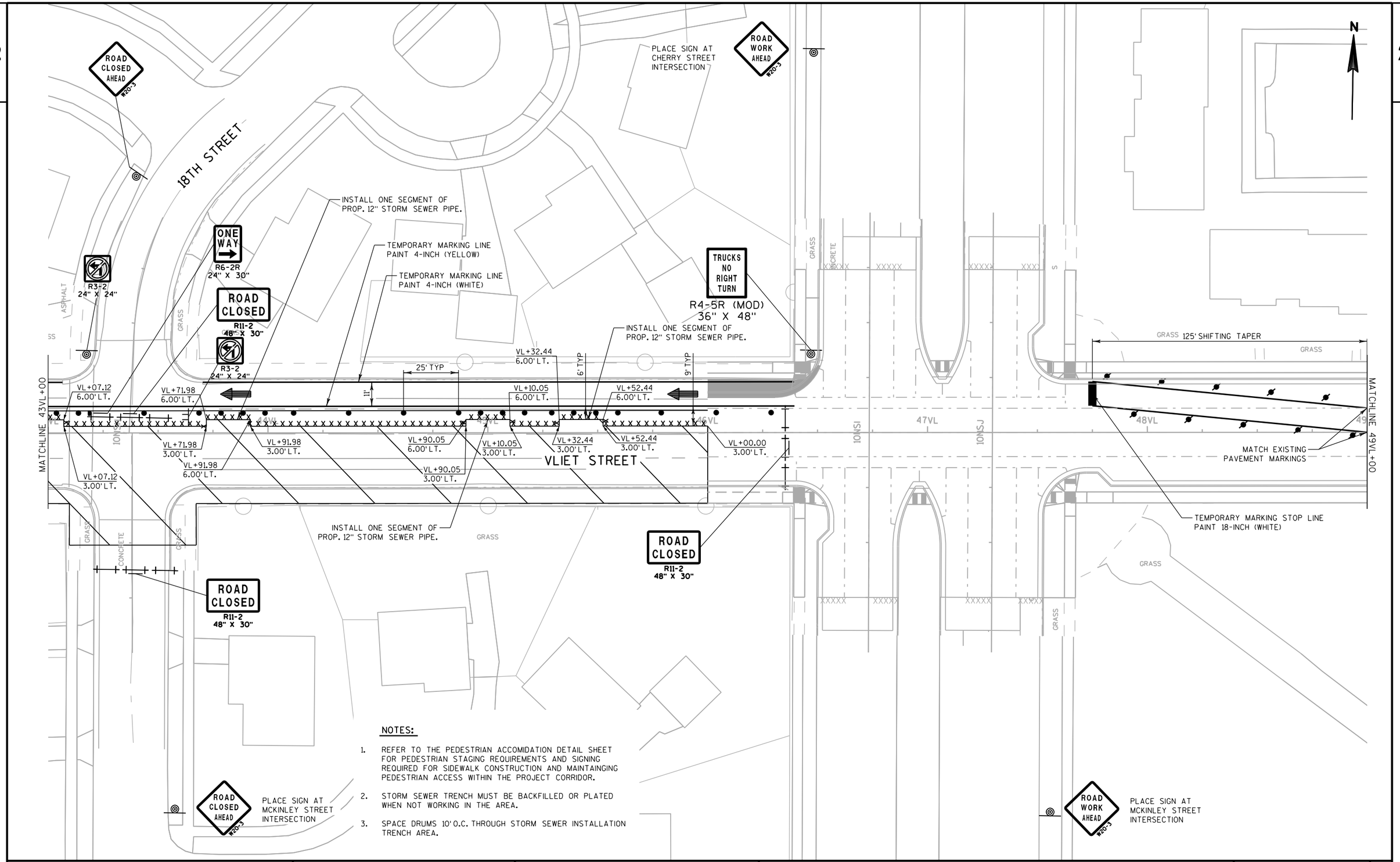
NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 247 E

2



NOTES:

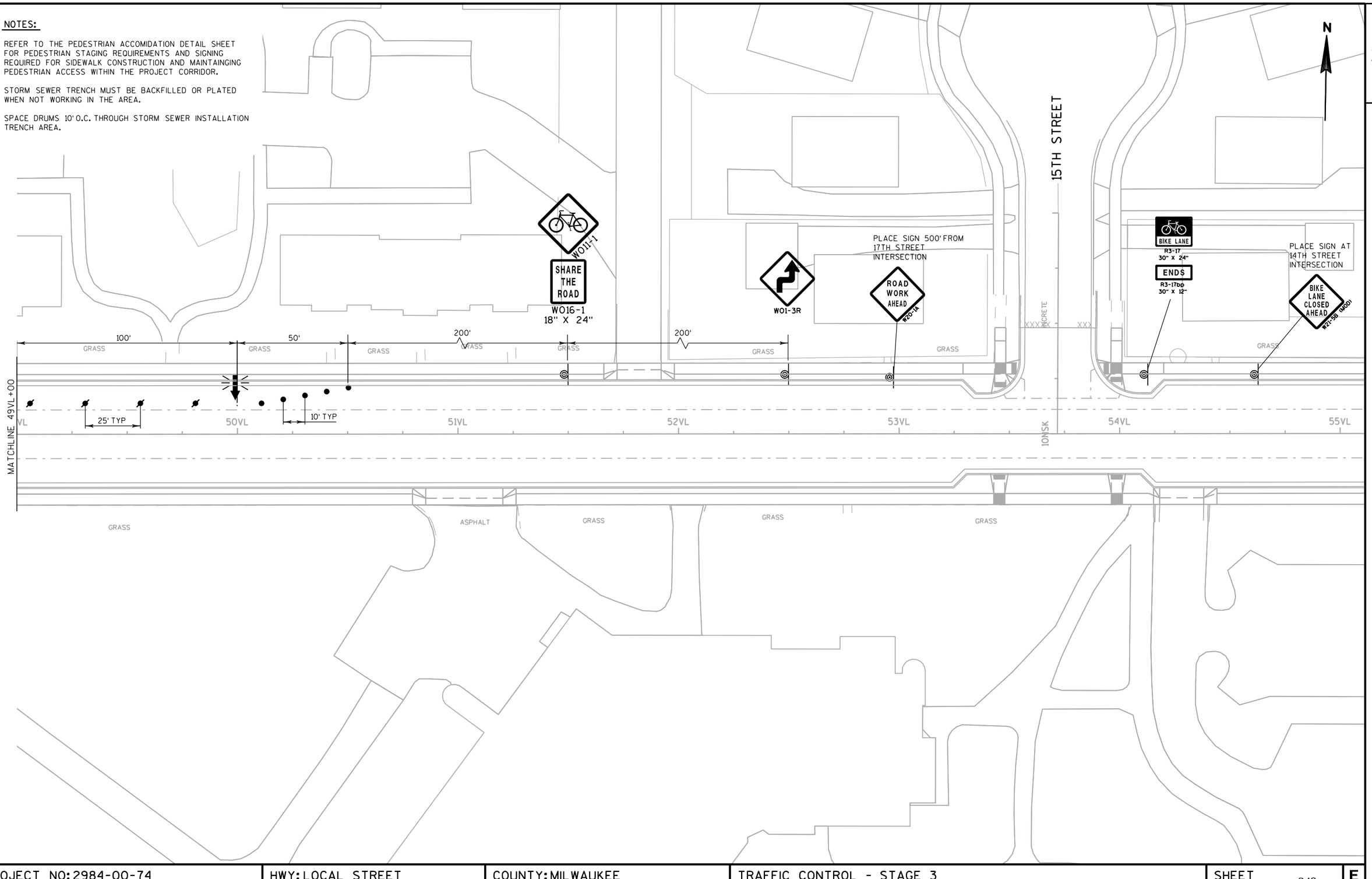
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 248 E

2

NOTES:

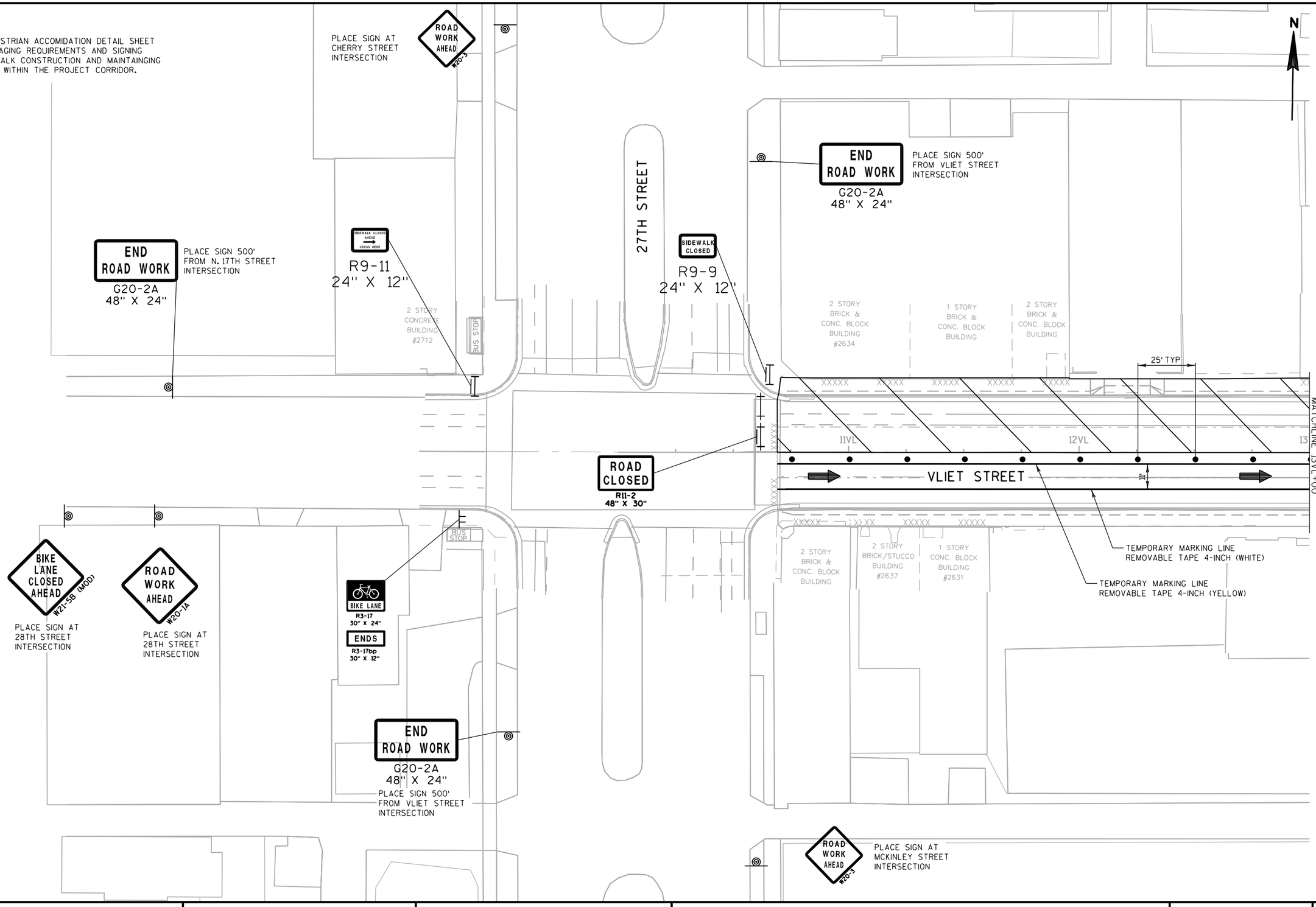
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.
2. STORM SEWER TRENCH MUST BE BACKFILLED OR PLATED WHEN NOT WORKING IN THE AREA.
3. SPACE DRUMS 10' O.C. THROUGH STORM SEWER INSTALLATION TRENCH AREA.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 249	E

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 250 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\E Traffic Control\63342_TCP_Stage4_s4.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

26TH STREET

25TH STREET

N

ROAD CLOSED
R11-2
48" X 30"

ONE WAY
R6-2R
24" X 30"

1 STORY BRICK/CONC. BUILDING #2608

1 STORY STUCCO BUILDING #2604

1 STORY BRICK BUILDING

1 STORY BRICK BUILDING #2526

2 1/2 STORY BRICK BUILDING #2506

2 1/2 STORY BRICK/STUCCO BUILDING #2500

25' TYP

MATCHLINE 13VL+00

14VL

15VL

16VL

17VL

18VL

MATCHLINE 19VL+00

VLIET STREET

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

1 STORY CONC. BLOCK BUILDING #2605

R3-2
24" X 24"

1 STORY BRICK BUILDING #2527

#2513

#2509

#2505

3 STORY BRICK BUILDING

CONCRETE

GRASS

2 STORY BRICK BUILDING #2463-65

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PLACE SIGN AT MCKINLEY STREET INTERSECTION

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 251	E

2

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

24TH PLACE

24TH STREET

N

ROAD CLOSED R11-2 48" X 30"

LANE CLOSED R11-2 48" X 30"

ONE WAY R6-2R 24" X 30"

25' TYP

MATCHLINE 19VL+00

MATCHLINE 25VL+00

19VL 20VL 21VL 22VL 23VL 24VL

VLIET STREET

11'

GRASS

ASPHALT

CONC.

2 STORY BRICK/STONE BUILDING

1 STORY CONC. BLOCK BUILDING #2499

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

R3-2 24" X 24"

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PLACE SIGN AT MCKINLEY STREET INTERSECTION

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 252	E

2

23RD STREET

22ND STREET

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

N

ROAD CLOSED R11-2 48" X 30"

CONCRETE PAVMENT GAP

ROAD CLOSED R11-2 48" X 30"

ONE WAY R6-2R 24" X 30"

ASPHALT

GRASS

25' TYP

MATCHLINE 25VL+00

25VL

26VL

27VL

28VL

29VL

30VL

31VL

MATCHLINE 31VL+00

VLIET STREET

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

R3-2 24" X 24"

R3-2 24" X 24"

ROAD CLOSED AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 253	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\3122d2024032_s4.dgn PLOT DATE : 26 Jun 2024 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

21ST STREET

PLACE SIGN AT CHERRY STREET INTERSECTION

ROAD CLOSED AHEAD W20-3

N

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

ONE WAY R6-2R 24" X 30"

LANE CLOSED R11-2 48" X 30"

25' TYP

GRASS

MATCHLINE 31VL+00

32VL

33VL

34VL

35VL

36VL

MATCHLINE 37VL+00

VLIET STREET

11'

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

R3-2 24" X 24"

R3-2 24" X 24"

R3-2 24" X 24"

ASPHALT

CONCRETE

XXXXX

ROAD CLOSED AHEAD W20-3

PLACE SIGN AT MCKINLEY STREET INTERSECTION

NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

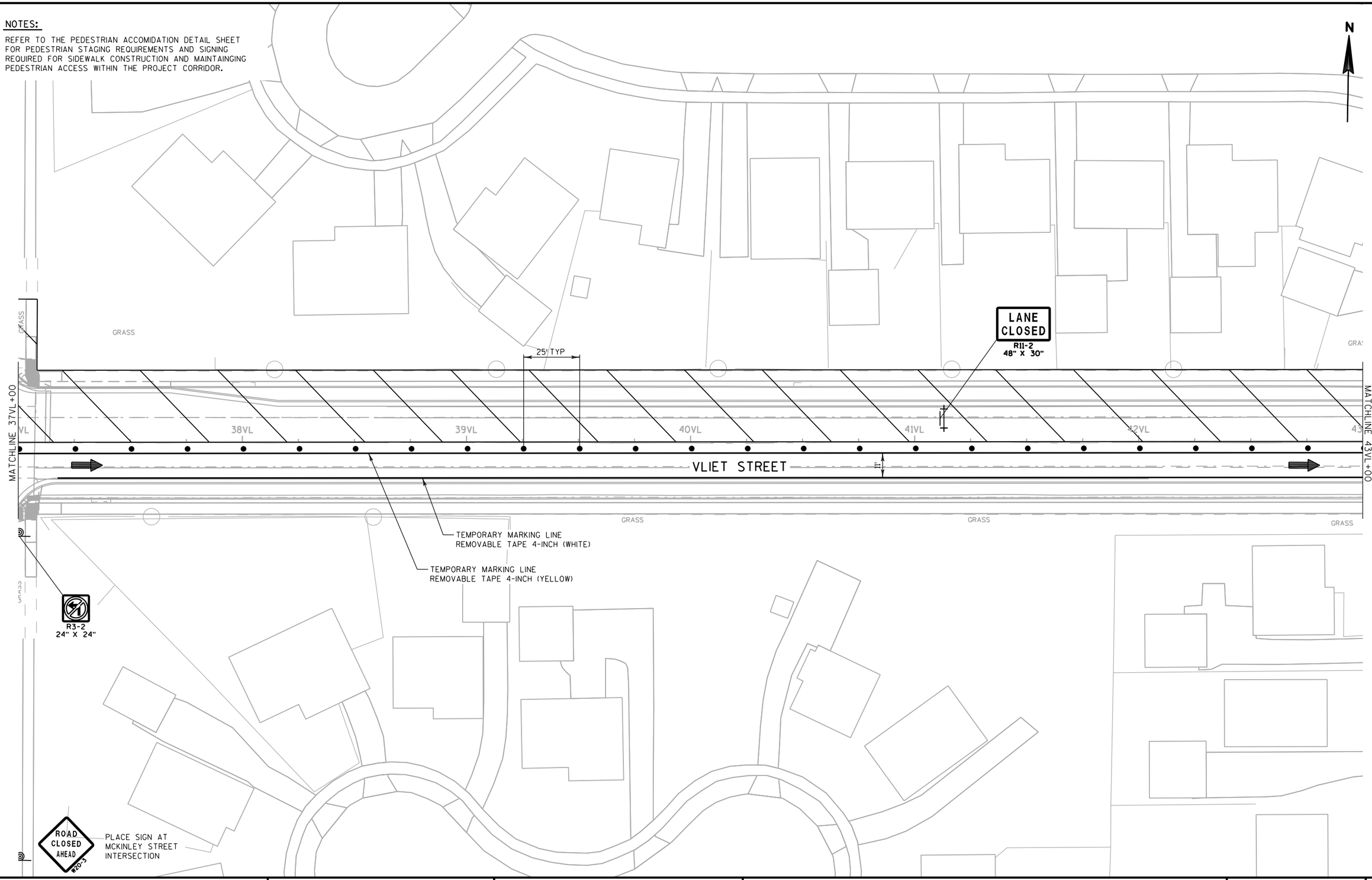
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 254	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Set Production\3122c15.02\4033_s4.dgn PLOT DATE : 7/6/2022 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:

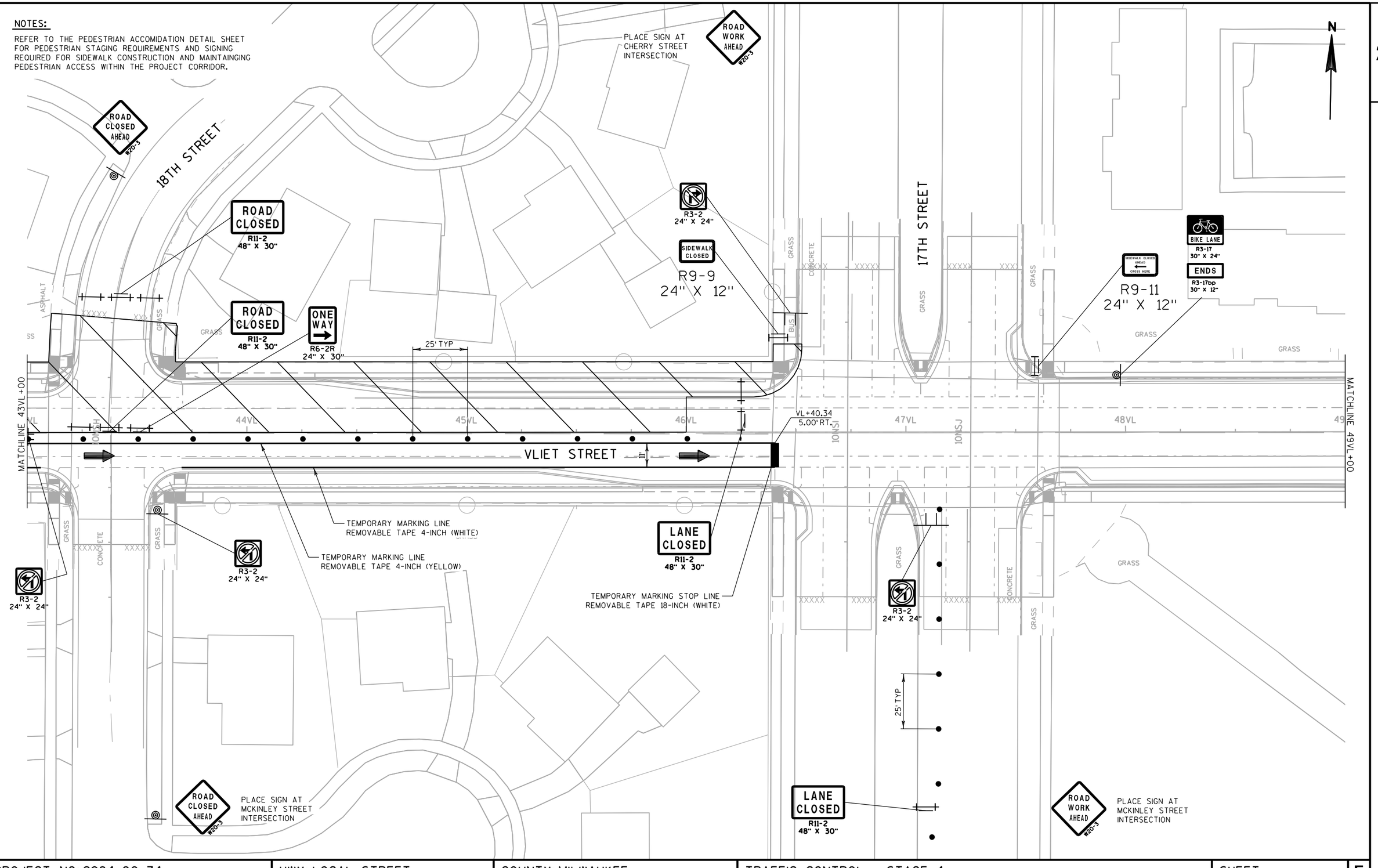
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 255	E

NOTES:

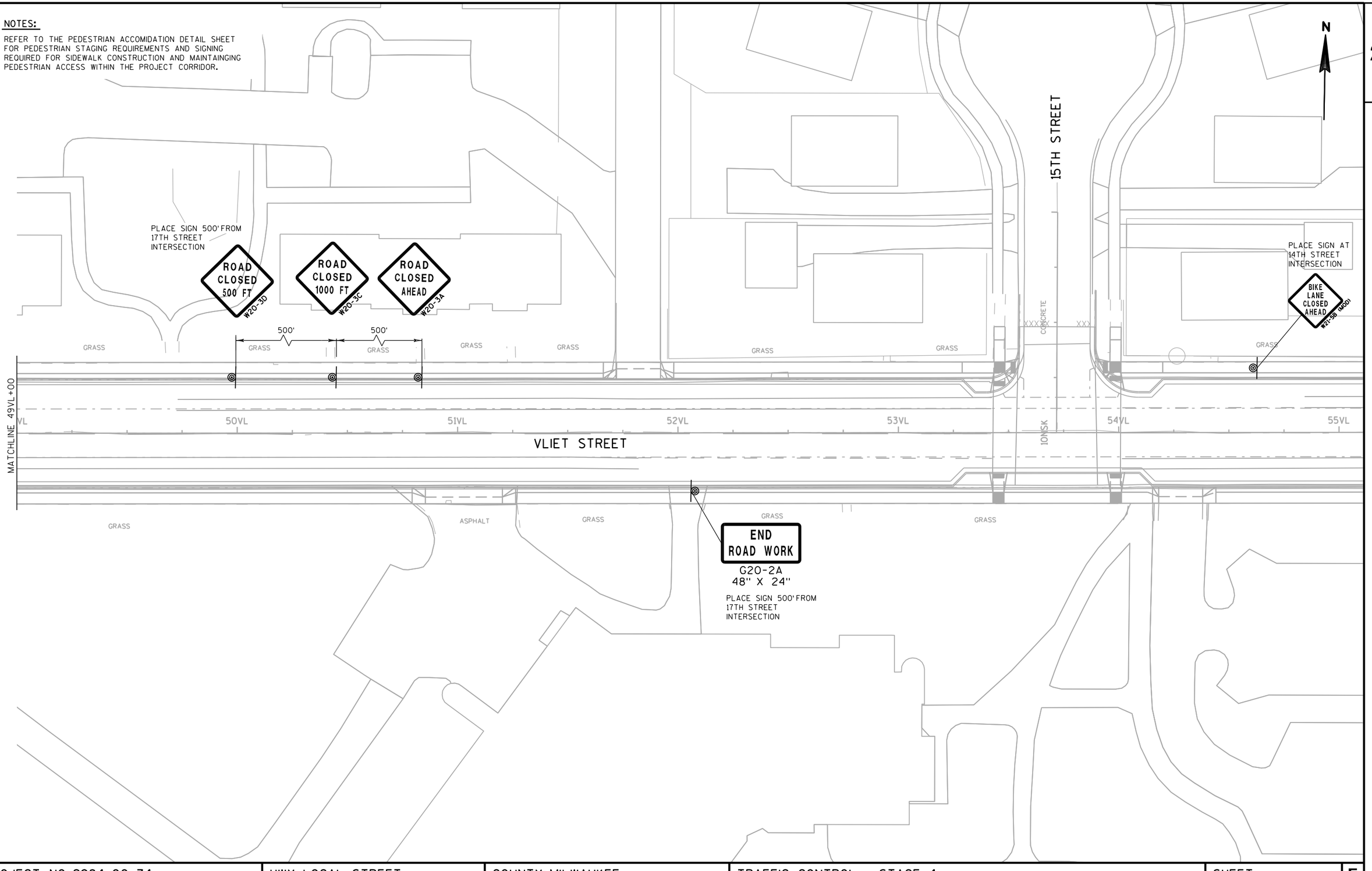
1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 256	E

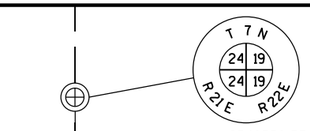
NOTES:

1. REFER TO THE PEDESTRIAN ACCOMIDATION DETAIL SHEET FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINGING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 257 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Traffic\Sheets\TC_S4_20240036_s4.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1



X = 2548538.37
Y = 390630.35

N

N. 27TH STREET

N. 26TH STREET

N. 25TH STREET

N. 24TH PLACE

N. 24TH STREET

PI = STA 11NSA+00.00
X = 2548939.1225
Y = 389047.3690

BEGIN ALIGNMENT
STA. 10VL+00.00
X = 2548534.1072
Y = 388940.1908

BM 1

CP 27

CP 26

VL = STA 14VL+07.10
NSA = STA 10NSA+00.00
X = 2548941.1387
Y = 388947.3900

PI = STA 11NSB+00.00
X = 2549217.3939
Y = 389052.2906

VL = STA 16VL+85.23
NSB = STA 10NSB+00.00
X = 2549219.2292
Y = 388952.3074

CP 25

PI = STA 11NSC+00.00
X = 2549527.4298
Y = 389057.7736

BM 2

VL = STA 19VL+95.12
NSC = STA 10NSC+00.00
X = 2549529.0684
Y = 388957.7871

VL = STA 23VL+32.42
NSD = STA 10NSD+00.00
X = 2549861.058
Y = 388963.944

PI = STA 11NSD+00.00
X = 2549864.2668
Y = 389063.7304

CP 24

12VL 14VL 16VL 18VL 20VL 22VL 24VL

10NSA 10NSB 10NSC 10NSD

N88°59'13"E

W. VLIET STREET

BEGIN PROJECT 2984-00-74
STA. 10VL+69.11
X = 2548603.206
Y = 388941.413

R/L W. VLIET STREET

VL = STA 14VL+07.33
NSA = STA 10NSA+00.00
X = 2548941.3746
Y = 388947.3935

PI = STA 9NSA+00.00
X = 2548942.8773
Y = 388847.4048

VL = STA 16VL+85.30
NSB = STA 10NSB+00.00
X = 2549219.2960
Y = 388952.3086

PI = STA 9NSB+00.00
X = 2549220.8511
Y = 388852.3207

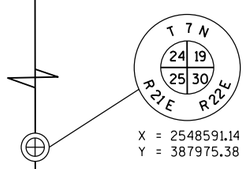
PI = STA 9NSC+00.00
X = 2549537.5185
Y = 388857.9229

VL = STA 20VL+01.16
NSC = STA 10NSC+00.00
X = 2549535.1087
Y = 388957.8939

VL = STA 23VL+32.14
NSD = STA 10NSD+00.00
X = 2549866.0387
Y = 388963.7465

PI = STA 9NSD+00.00
X = 2549862.780
Y = 388833.953

SECTION LINE 2665.49 N1°08'04"W



X = 2548591.14
Y = 387975.38

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1	-	-	93.65	SE QUAD AT 27TH ST. NE BOLT ON THE TRAFFIC SIGNAL.
BM 2	-	-	103.55	SE QUAT AT 24TH STREET. "X" ON STEP FOR BUILDING 2435.
CP 24	388995.719	2549894.557	104.026	CUT CROSS AT NE CORNER OF VLIET/24TH ST. 0.58'S. OF BACK OF E/W SIDEWALK AND 2.08'E. OF BACK OF N/S SIDEWALK.
CP 25	388984.209	2549246.851	100.120	CUT CROSS AT NE CORNER OF VLIET/25TH ST. 0.70'S. OF BACK OF E/W SIDEWALK AND 1.16'E. OF BACK OF N/S SIDEWALK.
CP 26	388978.989	2548969.776	98.034	CUT CROSS AT NE CORNER OF VLIET/26TH ST. 0.82'S. OF BACK OF E/W SIDEWALK AND 0.72'E. OF BACK OF N/S SIDEWALK.
CP 27	388972.219	2548601.808	92.241	CUT CROSS AT NE CORNER OF VLIET/27TH ST. 3.22'SOUTHWESTERLY OF THE SW CORNER OF A 7.5'WOOD COLUMN CORNER AND 5.5'NORTHWESTERLY OF THE NW FACE OF A LIGHT/TRAFFIC POLE.

2

N

T 7 N
19 19
19 19
R 22 E

X = 2551188.53
Y = 390667.90

N. 22ND STREET

N. 21ST STREET

N. 20TH STREET

PI = STA 11NSE+00.00
X = 2550547.7210
Y = 389075.8086

VL = STA 30VL+14.91
NSE = STA 10NSE+00.00
X = 2550548.7084
Y = 388975.8270

PI = STA 11NSF+00.00
X = 2550881.1196
Y = 389081.7142

VL = STA 33VL+49.10
NSF = STA 10NSF+00.00
X = 2550882.8376
Y = 388981.7289

PI = STA 11NSG+00.00
X = 2551211.0188
Y = 389087.5471

VL = STA 36VL+78.57
NSG = STA 10NSG+00.00
X = 2551212.2541
Y = 388987.5548

CP 23 CP 22 CP 21 CP 20 CP 19

26VL 28VL 30VL 32VL 34VL 36VL 38VL 40VL

10NSE 10NSF 10NSG

N88°59'13"E

W. VLIET STREET

BM 3

R/L W. VLIET STREET

PI = STA 9NSF+00.00
X = 2550885.3917
Y = 388881.7586

PI = STA 36VL+78.79
X = 2551212.48
Y = 388987.56

PI = STA 9NSG+0.00
X = 2551214.0014
Y = 388887.5700

PI = STA 9NSE+00.00
X = 2550550.4463
Y = 388875.8386

VL = STA 30VL+15.75
NSE = STA 10NSE+00.00
X = 2550549.5441
Y = 388975.8345

VL = STA 33VL+49.72
NSF = STA 10NSF+00.00
X = 2550883.4645
Y = 388981.7400

VL = STA 36VL+78.60
NSG = STA 10NSG+00.00
X = 2551212.2945
Y = 388987.5554

SECTION LINE

2653.27
N0°48'53"W

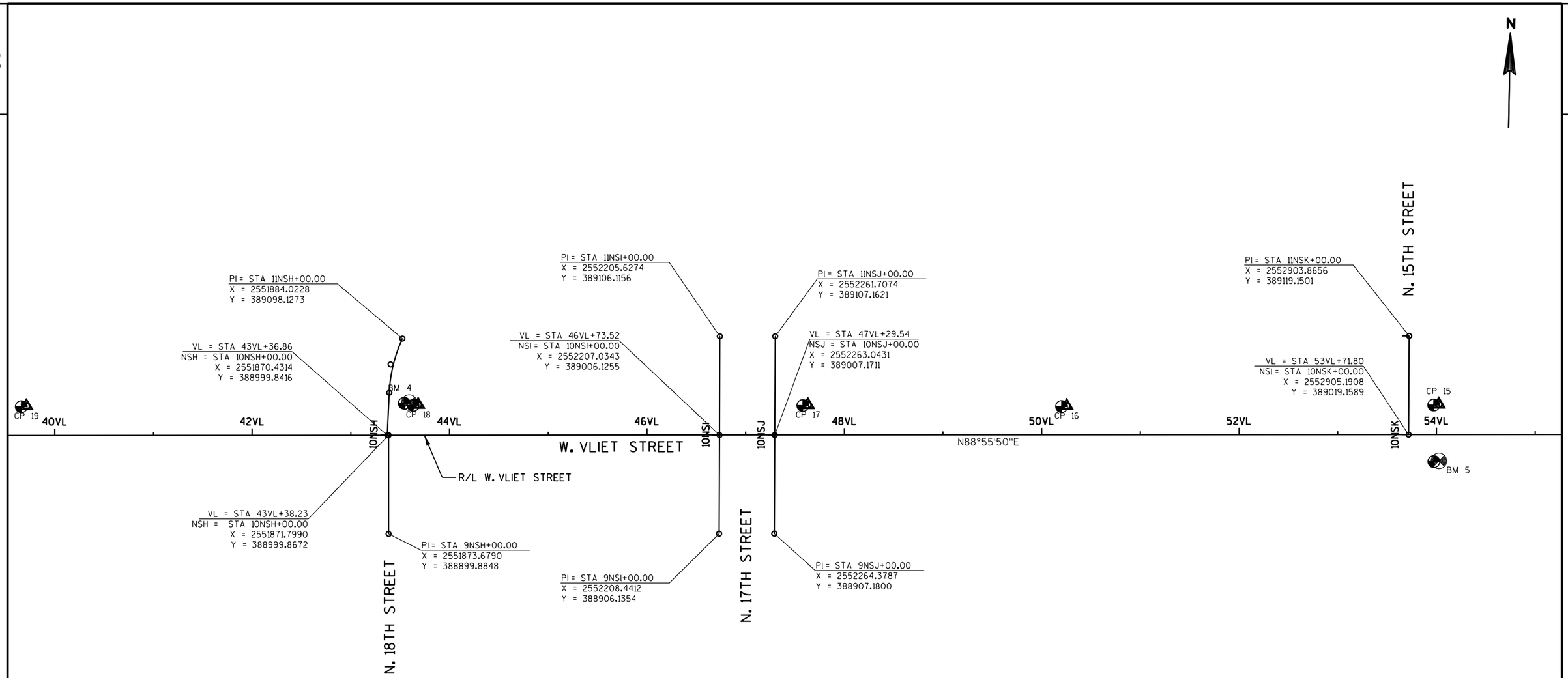
T 7 N
19 19
30 30
R 22 E

X = 2551226.26
Y = 388014.90

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 3	-	-	106.82	NE QUAD AT 22ND STREET. "X" ON STEP FOR BUILDING 2125-29.
CP 19	389022.821	2551504.319	98.835	CUT CROSS ON N. SIDE OF VLIET ST. 1.88' S. OF BACK OF E/W SIDEWALK AND 8.08' NW. OF THE NW FACE OF A CONCRETE LIGHTPOLE.
CP 20	389018.058	2551178.014	103.817	CUT CROSS AT NW CORNER OF VLIET/20TH ST. 0.84' S. OF BACK OF E/W SIDEWALK AND 4.12' W. OF BACK OF THE SW CHAMFERED CORNER OF A WALL.
CP 21	389012.869	2550910.735	106.683	CUT CROSS AT NE CORNER OF VLIET/21ST ST. 1.21' S. OF BACK OF E/W SIDEWALK AND 1.63' E. OF BACK OF N/S SIDEWALK.
CP 22	389008.139	2550578.080	105.863	CUT CROSS AT NE CORNER OF VLIET/22ND ST. 0.24' S. OF BACK OF E/W SIDEWALK AND 1.13' E. OF EASTERLY CHAMFERED CORNER OF THE SIDEWALK.
CP 23	389002.091	2550233.385	105.118	CUT CROSS AT NW CORNER OF VLIET/23RD ST. 0.31' S. OF BACK OF E/W SIDEWALK AND 2.89' W. OF FACE OF SIDEWALK ON E. SIDE OF 23RD ST.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	ALIGNMENT DETAILS	SHEET 259	E

2



POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 4	-	-	100.26	NW QUAD AT 18TH ST. AND KNEELAND. NE FLANGE BOLT ON FIRE HYDRANT.
CP 15	389050.383	2552935.167	100.890	CUT CROSS AT NE CORNER OF VLIET/15TH ST. 1.27'S. OF BACK OF E/W SIDEWALK AND 1.11'E. OF FACE OF N/S SIDEWALK.
CP 16	389042.054	2552558.186	99.752	CUT CROSS ON N. SIDE OF VLIET ST IN FRONT OF 1540 VLIET ST. 2.5'S. OF BACK OF E/W SIDEWALK AND 3.6'E. OF THE W. LINE OF THE 2 STORY BUILDING AT 1540 VLIET ST.
CP 17	389038.325	2552296.036	99.483	CUT CROSS AT NE CORNER OF VLIET/17TH ST. 1.0'S. OF BACK OF E/W SIDEWALK AND 0.64'E. OF FACE OF N/S SIDEWALK.
CP 18	389031.371	2551901.263	98.810	CUT CROSS AT NE CORNER OF VLIET/18TH ST. 0.57'S. OF BACK OF E/W SIDEWALK AND 0.75'E. OF BACK OF N/S SIDEWALK.
CP 19	389022.821	2551504.319	98.835	CUT CROSS ON N. SIDE OF VLIET ST. 1.88'S. OF BACK OF E/W SIDEWALK AND 8.08'NW. OF THE NW FACE OF A CONCRETE LIGHTPOLE.

2

T 7 N
19 20
19 20
R 22 E

X = 2553828.28
Y = 390703.15

N

N. 14TH STREET

N. 13TH STREET

SECTION LINE

2645.98
N0°45'18"E

PI = STA 11NSL+00.00
X = 2553278.1420
Y = 389126.1363

VL = STA 57VL+45.91
NSL = STA 10NSL+00.00
X = 2553279.2425
Y = 389026.1419

VL = STA 57VL+47.37
NSL = STA 10NSL+00.00
X = 2553280.7019
Y = 389026.1691

PI = STA 11NSM+00.00
X = 2553653.2814
Y = 389133.1388

VL = STA 61VL+21.09
NSM = STA 10NSM+00.00
X = 2553654.3550
Y = 389033.1446

VL = STA 61VL+21.43
NSM = STA 10NSM+00.00
X = 2553654.6932
Y = 389033.1509

END ALIGNMENT
STA 65VL+24.17
X = 2554057.3661
Y = 389040.3293

CP 14

CP 13

CP 12

56VL

58VL

60VL

62VL

64VL

10NSL

10NSM

10NSN

W. VLIET STREET

N88°59'16"E

R/L W. VLIET STREET

PI = STA 61VL+84.54
X = 2553717.80
Y = 389034.33

END PROJECT 2984-00-74
STA. 64VL+74.79
X = 2554007.997
Y = 389039.457

VL = STA 63VL+30.24
NSN = STA 10NSN+00.00
X = 2553863.3960
Y = 389036.9017

PI = STA 9NSL+00.00
X = 2553280.4884
Y = 388926.1489

PI = STA 9NSM+00.00
X = 2553655.7320
Y = 388933.1563

PI = STA 9NSN+00.00
X = 2553865.1628
Y = 388936.9173

N. 12TH LANE

T 7 N
19 20
30 29
R 22 E

X = 2553863.15
Y = 388057.40

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 5	-	-	106.81	LIGHT POLE IN PARKING LOT FOR KING PARK. "X" NE CORNER OF BASE.
CP 12	289073.147	2554094.822	103.843	CUT CROSS AT NE CORNER OF VLIET/12TH ST. 5.15' S. OF SOUTHERLY FACE OF CONCRETE RETAINING WALL AND 3.5' NORTHEASTERLY OF THE NORTHERNLY CORNER OF THE ADA RAMP.
CP 13	289063.942	2553625.100	102.785	CUT CROSS AT NW CORNER OF VLIET/13TH ST. 1.14' S. OF BACK OF E/W SIDEWALK AND 0.82' E. OF BACK OF N/S SIDEWALK.
CP 14	389056.232	2553251.989	101.872	CUT CROSS AT NW CORNER OF VLIET/14TH ST. 2.97' S. OF SE CORNER OF CONCRETE BUILDING AND 6.19' NE OF NW CORNER OF CONCRETE STREET LIGHT.

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	ALIGNMENT DETAILS	SHEET 261	E

2984-00-74

Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	33,725.000	33,725.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	976.000	976.000
0006	204.0155	Removing Concrete Sidewalk	SY	8,482.000	8,482.000
0008	204.0195	Removing Concrete Bases	EACH	24.000	24.000
0010	204.0200	Removing Railroad Track	LF	2,292.000	2,292.000
0012	204.0210	Removing Manholes	EACH	3.000	3.000
0014	204.0215	Removing Catch Basins	EACH	76.000	76.000
0016	204.0245	Removing Storm Sewer (size) 001. 6-Inch - 18-Inch	LF	1,556.000	1,556.000
0018	204.0250	Abandoning Manholes	EACH	12.000	12.000
0020	205.0100	Excavation Common	CY	25,550.000	25,550.000
0022	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1,923.000	1,923.000
0024	213.0100	Finishing Roadway (project) 001. 2984-00-74	EACH	1.000	1.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	37,300.000	37,300.000
0028	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	24.000	24.000
0030	415.0080	Concrete Pavement 8-Inch	SY	26,915.000	26,915.000
0032	415.0210	Concrete Pavement Gaps	EACH	5.000	5.000
0034	415.1080	Concrete Pavement HES 8-Inch	SY	250.000	250.000
0036	416.0170	Concrete Driveway 7-Inch	SY	200.000	200.000
0038	416.0610	Drilled Tie Bars	EACH	324.000	324.000
0040	416.0620	Drilled Dowel Bars	EACH	98.000	98.000
0042	465.0105	Asphaltic Surface	TON	183.000	183.000
0044	465.0125	Asphaltic Surface Temporary	TON	38.000	38.000
0046	465.0310	Asphaltic Curb	LF	50.000	50.000
0048	520.8000	Concrete Collars for Pipe	EACH	31.000	31.000
0050	601.0331	Concrete Curb & Gutter 31-Inch	LF	11,533.000	11,533.000
0052	601.0600	Concrete Curb Pedestrian	LF	563.000	563.000
0054	602.0410	Concrete Sidewalk 5-Inch	SF	68,314.000	68,314.000
0056	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	1,030.000	1,030.000
0058	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	2,618.000	2,618.000
0060	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	62.000	62.000
0062	611.2004	Manholes 4-FT Diameter	EACH	8.000	8.000
0064	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0066	611.8110	Adjusting Manhole Covers	EACH	68.000	68.000
0068	616.0700.S	Fence Safety	LF	1,500.000	1,500.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0072	620.0300	Concrete Median Sloped Nose	SF	44.000	44.000
0074	623.0200	Dust Control Surface Treatment	SY	39,094.000	39,094.000
0076	624.0100	Water	MGAL	34.000	34.000
0078	625.0100	Topsoil	SY	5,800.000	5,800.000
0080	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0082	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0084	628.7005	Inlet Protection Type A	EACH	114.000	114.000
0086	628.7010	Inlet Protection Type B	EACH	50.000	50.000
0088	628.7015	Inlet Protection Type C	EACH	121.000	121.000
0090	631.1000	Sod Lawn	SY	5,800.000	5,800.000
0092	632.0101	Trees (species) (size) (root) 001. Shagbark Hickory, 3", B&B	EACH	3.000	3.000
0094	632.0101	Trees (species) (size) (root) 002. Common Baldcypress, 3", B&B	EACH	3.000	3.000
0096	632.0101	Trees (species) (size) (root) 003. Shademaster Honeylocust, 3", B&B	EACH	5.000	5.000
0098	632.0101	Trees (species) (size) (root) 004. American Hornbeam, 3", B&B	EACH	6.000	6.000

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Line	Item	Item Description	Unit	Total	Qty
0100	632.0101	Trees (species) (size) (root) 005. Callery Pear, 3", B&B	EACH	5.000	5.000
0102	632.0101	Trees (species) (size) (root) 006. Autumn Blaze Maple, 3.5", B&B	EACH	6.000	6.000
0104	632.0101	Trees (species) (size) (root) 007. Sunburnt Honeylocust, 3", B&B	EACH	3.000	3.000
0106	632.0101	Trees (species) (size) (root) 008. Accolade Elm, 3", B&B	EACH	4.000	4.000
0108	632.0101	Trees (species) (size) (root) 009. American Sweetgum Cherokee, 3", B&B	EACH	3.000	3.000
0110	632.0101	Trees (species) (size) (root) 010. American Sweetgum Moraine, 3", B&B	EACH	3.000	3.000
0112	632.0101	Trees (species) (size) (root) 011. Tulip Tree, 3", B&B	EACH	6.000	6.000
0114	632.0101	Trees (species) (size) (root) 012. Northern Red Oak, 3", B&B	EACH	3.000	3.000
0116	632.0101	Trees (species) (size) (root) 013. Cumulus Serviceberry, 3", B&B	EACH	3.000	3.000
0118	632.0101	Trees (species) (size) (root) 014. Kentucky Coffeetree, 3", B&B	EACH	3.000	3.000
0120	632.0101	Trees (species) (size) (root) 015. Butternut, 3", B&B	EACH	2.000	2.000
0122	632.0101	Trees (species) (size) (root) 016. Ironwood, 3", B&B	EACH	3.000	3.000
0124	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000
0126	642.5201	Field Office Type C	EACH	1.000	1.000
0128	643.0300	Traffic Control Drums	DAY	64,200.000	64,200.000
0130	643.0410	Traffic Control Barricades Type II	DAY	33,700.000	33,700.000
0132	643.0420	Traffic Control Barricades Type III	DAY	42,000.000	42,000.000
0134	643.0705	Traffic Control Warning Lights Type A	DAY	49,100.000	49,100.000
0136	643.0715	Traffic Control Warning Lights Type C	DAY	22,800.000	22,800.000
0138	643.0800	Traffic Control Arrow Boards	DAY	571.000	571.000
0140	643.0900	Traffic Control Signs	DAY	52,000.000	52,000.000
0142	643.0920	Traffic Control Covering Signs Type II	EACH	29.000	29.000
0144	643.1050	Traffic Control Signs PCMS	DAY	60.000	60.000
0146	643.3105	Temporary Marking Line Paint 4-Inch	LF	11,659.000	11,659.000
0148	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	18,445.000	18,445.000
0150	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	33.000	33.000
0152	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	77.000	77.000
0154	643.5000	Traffic Control	EACH	1.000	1.000
0156	644.1410	Temporary Pedestrian Surface Asphalt	SF	5,750.000	5,750.000
0158	644.1420	Temporary Pedestrian Surface Plywood	SF	70.000	70.000
0160	644.1601	Temporary Pedestrian Curb Ramp	DAY	25.000	25.000
0162	644.1810	Temporary Pedestrian Barricade	LF	1,030.000	1,030.000
0164	646.1020	Marking Line Epoxy 4-Inch	LF	6,227.000	6,227.000
0166	646.9000	Marking Removal Line 4-Inch	LF	450.000	450.000
0168	646.9100	Marking Removal Line 8-Inch	LF	340.000	340.000
0170	650.4000	Construction Staking Storm Sewer	EACH	113.000	113.000
0172	650.4500	Construction Staking Subgrade	LF	6,322.000	6,322.000
0174	650.7000	Construction Staking Concrete Pavement	LF	6,322.000	6,322.000
0176	650.8501	Construction Staking Electrical Installations (project) 001. 2984-00-74	EACH	1.000	1.000
0178	650.9000	Construction Staking Curb Ramps	EACH	100.000	100.000
0180	650.9500	Construction Staking Sidewalk (project) 001. 2984-00-74	EACH	1.000	1.000
0182	650.9911	Construction Staking Supplemental Control (project) 001. 2984-00-74	EACH	1.000	1.000
0184	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	300.000	300.000
0186	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	13,245.000	13,245.000
0188	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	4,515.000	4,515.000
0190	652.0615	Conduit Special 3-Inch	LF	1,350.000	1,350.000
0192	654.0101	Concrete Bases Type 1	EACH	16.000	16.000
0194	654.0110	Concrete Bases Type 10	EACH	10.000	10.000
0196	654.0120	Concrete Bases Type 10-Special	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0198	655.0230	Cable Traffic Signal 5-14 AWG	LF	2,070.000	2,070.000
0200	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,435.000	1,435.000
0202	655.0270	Cable Traffic Signal 15-14 AWG	LF	2,090.000	2,090.000
0204	655.0305	Cable Type UF 2-12 AWG Grounded	LF	5,115.000	5,115.000
0206	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,890.000	1,890.000
0208	655.0900	Traffic Signal EVP Detector Cable	LF	1,715.000	1,715.000
0210	657.0100	Pedestal Bases	EACH	16.000	16.000
0212	657.0347	Poles Type 9-Special	EACH	2.000	2.000
0214	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	16.000	16.000
0216	657.0520	Monotube Arms 20-FT	EACH	2.000	2.000
0218	657.0525	Monotube Arms 25-FT	EACH	8.000	8.000
0220	657.0536	Monotube Arms 35-FT-Special	EACH	1.000	1.000
0222	657.0541	Monotube Arms 40-FT-Special	EACH	1.000	1.000
0224	658.0173	Traffic Signal Face 3S 12-Inch	EACH	52.000	52.000
0226	658.0412	Pedestrian Signal Face 12-Inch	EACH	32.000	32.000
0228	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000
0230	658.5070	Signal Mounting Hardware (location) 001. Vliet & 24th	EACH	1.000	1.000
0232	658.5070	Signal Mounting Hardware (location) 002. Vliet & 20th	EACH	1.000	1.000
0234	658.5070	Signal Mounting Hardware (location) 003. Vliet & 17th	EACH	1.000	1.000
0236	658.5070	Signal Mounting Hardware (location) 004. Vliet & 13th	EACH	1.000	1.000
0238	674.0300	Remove Cable	LF	200.000	200.000
0240	690.0250	Sawing Concrete	LF	8,922.000	8,922.000
0242	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	8,074.000	8,074.000
0244	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0246	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,800.000	4,800.000
0248	SPV.0060	Special 001. Internal Sanitary Manhole Seals	EACH	8.000	8.000
0250	SPV.0060	Special 002. Adjusting Water Box	EACH	1.000	1.000
0252	SPV.0060	Special 005. Temporary Bus Loading Zone	EACH	4.000	4.000
0254	SPV.0060	Special 006. Installing City-Furnished Bike Rack	EACH	10.000	10.000
0256	SPV.0060	Special 007. Utility Line Opening (ULO)	EACH	16.000	16.000
0258	SPV.0060	Special 008. Water Main Protection	EACH	1.000	1.000
0260	SPV.0060	Special 050. Marking Symbol Grooved Preformed Plastic	EACH	28.000	28.000
0262	SPV.0060	Special 051. Marking Arrow Grooved Preformed Plastic	EACH	28.000	28.000
0264	SPV.0060	Special 052. Marking Word Grooved Preformed Plastic	EACH	1.000	1.000
0266	SPV.0060	Special 102. Inlet Cover Type MS 57	EACH	104.000	104.000
0268	SPV.0060	Special 103. Manhole Cover Type MS 58-A	EACH	75.000	75.000
0270	SPV.0060	Special 110. Catch Basin Type 44A	EACH	86.000	86.000
0272	SPV.0060	Special 112. Storm Inlet Type 45A	EACH	18.000	18.000
0274	SPV.0060	Special 201. Install Precast Control Cabinet Base	EACH	4.000	4.000
0276	SPV.0060	Special 205. ATC Controller And Cabinet Installed	EACH	4.000	4.000
0278	SPV.0060	Special 212. Fiber Optic Patch Panel	EACH	4.000	4.000
0280	SPV.0060	Special 213. Ethernet Switch	EACH	4.000	4.000
0282	SPV.0060	Special 218. EVP 1 Channel 1 Direction Infrared Detector	EACH	12.000	12.000
0284	SPV.0060	Special 221. EVP Phase Selector Card 4 Channel	EACH	4.000	4.000
0286	SPV.0060	Special 223. EVP Confirmation Light Assembly	EACH	12.000	12.000
0288	SPV.0060	Special 226. Vehicular Microwave Detection System	EACH	2.000	2.000
0290	SPV.0060	Special 228. Electrical Riser	EACH	6.000	6.000
0292	SPV.0060	Special 267. Pedestrian Countdown Signal Face 12-Inch	EACH	32.000	32.000
0294	SPV.0060	Special 274. Poles Type 10 Modified Special 26 Ft	EACH	10.000	10.000

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Line	Item	Item Description	Unit	Total	Qty
0296	SPV.0060	Special 302. Pull Boxes 13-Inch X 24-Inch X 24-Inch	EACH	130.000	130.000
0298	SPV.0060	Special 303. Pull Boxes 17-Inch X 30-Inch X 24-Inch	EACH	23.000	23.000
0300	SPV.0060	Special 310. Remove Poles	EACH	57.000	57.000
0302	SPV.0060	Special 312. Install Poles (A26 Gray Concrete, Direct Bury)	EACH	43.000	43.000
0304	SPV.0060	Special 317. Install H17 Concrete Pole Includes Riser Cable	EACH	3.000	3.000
0306	SPV.0060	Special 343. Water Tight Splices & Connections	EACH	220.000	220.000
0308	SPV.0060	Special 345. Luminaire Arm Single Member 6-Ft.	EACH	54.000	54.000
0310	SPV.0060	Special 355. Install A21-A26 Mounting Clamp (Single Bracket)	EACH	54.000	54.000
0312	SPV.0060	Special 376. Luminaire Utility 3LED	EACH	82.000	82.000
0314	SPV.0060	Special 387. Remove Luminaire Complete	EACH	32.000	32.000
0316	SPV.0060	Special 400. Adjusting CUC Manhole Covers	EACH	18.000	18.000
0318	SPV.0060	Special 401. 4' Diameter Manhole Type CUC	EACH	15.000	15.000
0320	SPV.0060	Special 425. Installing Conduit Into Existing Manhole	EACH	4.000	4.000
0322	SPV.0060	Special 426. Sawing Concrete Encased Duct Package	EACH	6.000	6.000
0324	SPV.0060	Special 864. Luminaire Historic Milwaukee Harp LED0(38W/240V Type IV Black MKE LED Harp)	EACH	3.000	3.000
0326	SPV.0090	Special 002. Marking Line Epoxy 6-Inch	LF	7,575.000	7,575.000
0328	SPV.0090	Special 052. Marking Crosswalk Grooved Preformed Plastic 12-Inch	LF	2,596.000	2,596.000
0330	SPV.0090	Special 053. Marking Stop Line Grooved Preformed Plastic 24-Inch	LF	375.000	375.000
0332	SPV.0090	Special 054. Marking Crosswalk Grooved Preformed Plastic Ladder Pattern 24-Inch	LF	56.000	56.000
0334	SPV.0090	Special 055. Marking Crosswalk Continental Bars Grooved Preformed Plastic 12-Inch	LF	462.000	462.000
0336	SPV.0090	Special 201. Install Fiber Optic Cable Outdoor Plant 72-Ct Contractor Supplied	LF	5,910.000	5,910.000
0338	SPV.0090	Special 314. Remove Aerial Cable	LF	9,410.000	9,410.000
0340	SPV.0090	Special 319. Liquidtight Flexible Nonmetallic Conduit 1 ½-Inch	LF	2,250.000	2,250.000
0342	SPV.0090	Special 322. Electrical Cable In Duct Type 3#6/1#8 XLP	LF	1,500.000	1,500.000
0344	SPV.0090	Special 324. Electrical Cable In Duct Type 3#2/1#8 XLP	LF	12,000.000	12,000.000
0346	SPV.0090	Special 401. 1-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	35.000	35.000
0348	SPV.0090	Special 402. 2-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	656.000	656.000
0350	SPV.0090	Special 403. 3-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	2.000	2.000
0352	SPV.0090	Special 404. 4-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	198.000	198.000
0354	SPV.0090	Special 406. 6-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	5,208.000	5,208.000
0356	SPV.0090	Special 407. 7-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	134.000	134.000
0358	SPV.0090	Special 408. 8-Duct Conduit, Cement Encased, 4-Inch Rigid Nonmetallic Conduit DB-60	LF	88.000	88.000
0360	SPV.0180	Special 001. Joint Sealing	SY	26,915.000	26,915.000
0362	SPV.0195	Special 001. Management Of Hazardous Solid Waste	TON	1,247.000	1,247.000

REMOVING CONCRETE PAVEMENT

ROADWAY	STATION-STATION	OFFSET	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
CAT 0010				
STAGE 1				
VLIET ST	46VL+00 - 64VL+74	LT & RT	6,796	--
VLIET ST	64VL+74 - 64VL+89	RT	--	38
17TH STREET SB	9NSI+10 - 9NSI+25	RT	--	53
17TH STREET NB	9NSJ+10 - 9NSJ+25	RT	--	57
12TH LANE	9NSN+43 - 9NSN+58	RT	--	33
STAGE 1 SUBTOTAL			**6,796**	**181**
STAGE 2				
VLIET ST	10VL+71 - 64VL+74	LT & RT	5,430	--
VLIET ST	64VL+74 - 64VL+89	LT	--	39
17TH STREET SB	10NSI+74 - 10NSI+89	LT	--	55
17TH STREET NB	10NSJ+74 - 10NSJ+89	LT	--	53
13TH STREET	10NSM+65 - 10NSM+80	LT	--	60
STAGE 2 SUBTOTAL			**5,430**	**207**
STAGE 3				
VLIET ST	10VL+59 - 10VL+69	RT	--	25
VLIET ST	46VL+00 - 64VL+74	LT & RT	12,111	--
25TH STREET	9NSB+38 - 9NSB+53	RT	--	53
24TH PLACE	9NSC+35 - 9NSC+50	RT	--	43
24TH STREET	9NSD+26 - 9NSD+41	RT	--	53
22ND STREET	9NSE+34 - 9NSE+49	RT	--	47
21ST STREET	9NSF+34 - 9NSF+49	RT	--	47
STAGE 3 SUBTOTAL			**12,111**	**268**
STAGE 4				
VLIET ST	10VL+59 - 10VL+69	LT	--	39
VLIET ST	10VL+71 - 46VL+00	LT & RT	9,388	--
26TH STREET	10NSA+53 - 10NSA+68	LT	--	50
25TH STREET	10NSB+48 - 10NSB+63	LT	--	47
24TH PLACE	10NSC+44 - 10NSC+59	LT	--	37
24TH STREET	10NSD+59 - 10NSD+74	LT	--	53
22ND STREET	10NSE+49 - 10NSE+64	LT	--	47
21ST STREET	10NSF+49 - 10NSF+64	LT	--	47
STAGE 4 SUBTOTAL			**9,388**	**320**
PROJECT 2984-00-74 TOTAL			**33,725**	**976**

REMOVING CONCRETE SIDEWALK

ROADWAY	STATION-STATION	OFFSET	204.0155 SY
CAT 0010			
STAGE 1			
VLIET ST	46VL+00 - 46VL+48	RT	59
	47VL+53 - 57VL+29	RT	799
	57VL+63 - 61VL+00	RT	315
	61VL+42 - 63VL+19	RT	180
	63VL+43 - 64VL+75	RT	137
STAGE 1 SUBTOTAL			**1,490**
STAGE 2			
VLIET ST	46VL+00 - 46VL+51	LT	78
	47VL+62 - 53VL+54	LT	525
	53VL+90 - 57VL+31	LT	291
	57VL+63 - 61VL+00	LT	321
	61VL+41 - 64VL+75	LT	345
STAGE 2 SUBTOTAL			**1,560**
STAGE 3			
VLIET ST	10VL+70 - 13VL+19	RT	263
	14VL+24 - 16VL+67	RT	250
	17VL+04 - 19VL+86	RT	243
	20VL+17 - 23VL+13	RT	284
	23VL+50 - 29VL+98	RT	526
	30VL+32 - 33VL+33	RT	248
	33VL+66 - 36VL+59	RT	246
	36VL+99 - 43VL+21	RT	495
	43VL+58 - 46VL+00	RT	193
STAGE 3 SUBTOTAL			**2,748**
STAGE 4			
VLIET ST	10VL+71 - 13VL+90	LT	261
	14VL+24 - 16VL+69	LT	222
	17VL+02 - 19VL+82	LT	220
	20VL+08 - 23VL+13	LT	261
	23VL+52 - 29VL+98	LT	520
	30VL+32 - 33VL+32	LT	246
	33VL+66 - 36VL+69	LT	253
	37VL+99 - 43VL+22	LT	516
	43VL+58 - 46VL+00	LT	185
STAGE 4 SUBTOTAL			**2,684**
PROJECT 2984-00-74 TOTAL			**8,482**

REMOVING RAILROAD TRACK

ROADWAY	STATION-STATION	OFFSET	204.0200 LF
CAT 0010			
STAGE 1			
VLIET ST	10VL+69 - 27VL+67	8.6' RT	1,698
VLIET ST	30VL+10 - 36VL+04	8.6' RT	594
STAGE 1 SUBTOTAL			**2,292**
PROJECT 2984-00-74 TOTAL			**2,292**

Category	Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100 Cut (CY) (2)	Fill (CY)	Expanded Fill (CY) 1.20 Expansion Factor	Mass Ordinate +/- (4)	Comment:
0010	1	46VL+00 - 64VL+75	VLIET STREET	3,865	23	28	3,838	
		9NSI+25 - 9NSI+84	17TH STREET SB	206	1	1	205	
		9NSJ+25 - 9NSJ+84	17TH STREET NB	281	1	1	280	
		9NSL+47 - 9NSL+84	14TH STREET	120	1	2	118	
		9NSM+32 - 9NSM+84	13TH STREET	182	0	0	182	
		9NSN+58 - 9NSN+78	12TH LANE	35	0	0	35	
	Project 2984-00-73 - Division 1 Subtotal			4,690	27	32	4,658	
0010	2	46VL+00 - 64VL+75	VLIET STREET	3,875	24	29	3,847	
		10NSI+16 - 10NSI+74	17TH STREET SB	287	1	2	286	
		10NSJ+16 - 10NSJ+74	17TH STREET NB	198	1	1	197	
		10NSK+16 - 10NSK+47	15TH STREET	103	2	2	101	
		10NSL+16 - 10NSL+48	14TH STREET	110	0	0	110	
		10NSM+16 - 10NSM+65	13TH STREET	177	0	0	177	
	Project 2984-00-73 - Division 2 Subtotal			4,750	28	33	4,717	
0010	3	10VL+69 - 46VL+00	VLIET STREET	6,919	179	215	6,704	
		9NSA+53 - 9NSA+84	26TH STREET	114	1	2	113	
		9NSB+53 - 9NSB+78	25TH STREET	101	0	0	101	
		9NSC+50 - 9NSC+84	24TH PLACE	104	1	2	102	
		9NSD+41 - 9NSD+84	24TH STREET	155	0	0	155	
		9NSE+49 - 9NSE+84	22ND STREET	120	1	1	119	
		9NSF+49 - 9NSF+84	21ST STREET	150	0	0	150	
		9NSG+40 - 9NSG+84	20TH STREET	172	0	0	172	
		9NSH+49 - 9NSH+84	18TH STREET	149	0	0	149	
	Project 2984-00-73 - Division 3 Subtotal			7,983	183	220	7,763	
0010	4	10VL+69- 46VL+00	VLIET STREET	7,053	149	179	6,875	
		10NSA+16 - 10NSA+53	26TH STREET	141	1	1	140	
		10NSB+22 - 10NSB+48	25TH STREET	98	3	4	95	
		10NSC+16 - 10NSC+44	24TH PLACE	98	0	0	98	
		10NSD+22 - 10NSD+59	24TH STREET	148	0	0	148	
		10NSE+16 - 10NSE+49	22ND STREET	113	1	1	112	
		10NSF+16 - 10NSF+49	21ST STREET	152	0	0	152	
		10NSG+16 - 10NSG+64	20TH STREET	199	0	1	198	
		10NSH+16 - 10NSH+52	18TH STREET	125	0	0	125	
	Project 2984-00-73 - Division 4 Subtotal			8,127	155	186	7,941	

Project 2984-00-74 Totals **25,550**

1) Excavation Common = Cut. Item number 205.0100.
2) Cut volume includes concrete and asphaltic surface material.
3) The Mass Ordinate is calculated by division. A positive quantity indicates an excess of material within the Division and a negative quantity indicates a shortage of material within the Division.
4) The required Fill quantity is assumed to be available from Excavation Common quantity.

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 9/15/2022 2:33:53 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

REMOVING CATCH BASINS

ROADWAY	STATION	OFFSET	204.0215 REMOVING CATCH BASINS EACH
CAT 0010			
STAGE 1			
VLIET ST	47VL+71.87	23.49' RT	1
	48VL+74.22	22.51' RT	1
	50VL+69.95	22.83' RT	1
	52VL+26.12	23.99' RT	1
	54VL+31.74	22.97' RT	1
	56VL+03.26	22.73' RT	1
	57VL+82.84	22.61' RT	1
	59VL+74.90	22.35' RT	1
	61VL+54.08	22.46' RT	1
	63VL+50.85	23.10' RT	1
	64VL+67.34	22.64' RT	1
STAGE 1 SUBTOTAL			**11**
STAGE 2			
VLIET ST	46VL+45.69	40.30' LT	1
	47VL+91.96	23.23' LT	1
	48VL+85.65	23.16' LT	1
	50VL+54.38	23.16' LT	1
	52VL+40.37	24.49' LT	1
	53VL+55.96	42.02' LT	1
	53VL+88.12	42.26' LT	1
	54VL+54.90	24.62' LT	1
	55VL+89.80	24.38' LT	1
	57VL+32.84	37.08' LT	1
	57VL+61.23	40.32' LT	1
	58VL+15.00	23.00' LT	1
	59VL+67.18	24.56' LT	1
	61VL+02.56	43.53' LT	1
	61VL+40.43	38.96' LT	1
	61VL+50.92	24.86' LT	1
	64VL+53.41	25.33' LT	1
STAGE 2 SUBTOTAL			**17**
STAGE 3			
VLIET ST	10VL+73.39	23.07' RT	1
	13VL+92.94	45.75' RT	1
	14VL+15.63	44.91' RT	1
	14VL+69.29	22.95' RT	1
	16VL+61.13	36.77' RT	1
	16VL+95.39	38.37' RT	1
	17VL+51.90	23.01' RT	1
	19VL+80.80	38.25' RT	1
	20VL+08.98	39.45' RT	1
	20VL+85.88	23.07' RT	1

REMOVING CATCH BASINS (CONT.)

ROADWAY	STATION	OFFSET	204.0215 REMOVING CATCH BASINS EACH
VLIET ST	21VL+75.40	23.54' RT	1
	23VL+08.30	40.99' RT	1
	23VL+42.04	41.43' RT	1
	25VL+46.04	23.51' RT	1
	26VL+36.17	23.78' RT	1
	27VL+44.88	23.67' RT	1
	28VL+82.20	23.85' RT	1
	29VL+93.60	42.89' RT	1
	30VL+99.40	23.66' RT	1
	32VL+87.08	24.08' RT	1
	33VL+29.06	43.19' RT	1
	33VL+58.25	47.18' RT	1
	36VL+30.38	24.06' RT	1
	39VL+65.87	23.73' RT	1
	40VL+80.20	23.82' RT	1
	41VL+52.42	23.92' RT	1
	42VL+86.13	23.89' RT	1
	43VL+87.12	23.83' RT	1
	44VL+89.99	23.76' RT	1
	45VL+72.70	23.65' RT	1
STAGE 3 SUBTOTAL			**30**
STAGE 4			
VLIET ST	10VL+76.96	24.00' LT	1
	12VL+33.84	23.67' LT	1
	14VL+53.67	23.68' LT	1
	17VL+18.91	23.78' LT	1
	20VL+54.05	23.60' LT	1
	24VL+16.80	23.37' LT	1
	26VL+30.69	22.61' LT	1
	27VL+44.27	23.38' LT	1
	28VL+91.38	23.18' LT	1
	30VL+90.86	23.16' LT	1
	36VL+36.94	22.86' LT	1
	39VL+68.27	22.95' LT	1
	40VL+54.67	22.62' LT	1
	42VL+11.90	22.73' LT	1
	43VL+16.25	40.87' LT	1
	43VL+48.20	41.07' LT	1
	43VL+92.54	23.24' LT	1
	45VL+43.20	23.08' LT	1
STAGE 4 SUBTOTAL			**18**
PROJECT 2984-00-74 TOTAL			**76**

REMOVING STORM SEWER

ROADWAY	STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 6-INCH - 18-INCH LF
CAT 0010			
STAGE 1			
VLIET ST	47VL+93	20' LT	25
	48VL+74	22' RT	21
	50VL+38	22' RT	38
	52VL+32	23' LT	25
	54VL+14	22' RT	29
	56VL+08	22' RT	24
	57VL+86	22' RT	22
	63VL+77	22' RT	34
	64VL+84	22' RT	27
STAGE 1 SUBTOTAL			**245**
STAGE 2			
VLIET ST	47VL+93	23' LT	25
	48VL+74	23' LT	27
	50VL+38	23' LT	29
	52VL+32	21' RT	22
	54VL+14	24' LT	47
	56VL+08	23' LT	28
	64VL+84	24' LT	39
17TH ST	10NSH+42	20' LT	15
15TH ST	10NSK+44	15' LT	14
	10NSK+44	14' RT	15
14TH ST	10NSL+45	13' LT	15
	10NSL+45	13' RT	14
STAGE 2 SUBTOTAL			**290**
STAGE 3			
VLIET ST	10VL+83	22' RT	22
	14VL+54	21' RT	30
	17VL+28	21' RT	38
	21VL+08	21' RT	27
	21VL+98	22' RT	28
	23VL+99	21' RT	23
	25VL+48	21' RT	23
	26VL+42	22' RT	22
	27VL+51	24' LT	23
	28VL+89	23' RT	23

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REMOVING STORM SEWER (CONT.)

ROADWAY	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 6-INCH - 18-INCH LF
VLIET ST	30VL+58	21' RT	53
	36VL+37	21' RT	21
	39VL+66	21' RT	23
	40VL+50	22' RT	41
	43VL+82	22' RT	25
	44VL+63	22' RT	40
	45VL+79	22' RT	21
26TH ST	9NSA+53	15' RT	15
	9NSA+53	15' RT	15
25TH ST	9NSB+56	15' RT	17
24TH PL	9NSC+55	12' LT	16
	9NSC+55	13' RT	13
24TH ST	9NSD+55	15' LT	16
	9NSD+55	15' RT	16
22ND ST	9NSE+56	14' LT	14
	9NSE+56	13' RT	14
21ST ST	56NSF+56	14' LT	13
	56NSF+56	14' RT	15
STAGE 3 SUBTOTAL			**645**
STAGE 4			
VLIET ST	10VL+83	23' LT	24
	14VL+54	23' RT	25
	17VL+27	24' LT	24
	20VL+44	23' LT	29
	26VL+42	24' LT	24
	27VL+51	23' RT	25
	28VL+98	24' LT	24
	30VL+58	21' LT	46
	36VL+37	23' LT	25
	39VL+66	23' LT	24
	40VL+50	23' LT	26
	43VL+82	23' LT	28
	45VL+42	23' LT	25
18TH ST	10NSH+44	14' LT	15
	10NSH+44	14' RT	14
STAGE 2 SUBTOTAL			**376**
PROJECT 2984-00-74 TOTAL			**1,556**

EXCAVATION, HAULING, AND DISPOSING OF PETROLEUM CONTAMINATED SOIL

ROADWAY	STATION-STATION	OFFSET	205.0501.S TON	COMMENTS
CAT 0010				
VLIET ST	14VL+05 - 14VL+50	15' RT - 60' RT	149	3' - 7' BELOW GRADE
	16VL+20 - 16VL+70	5' LT - 40' LT	76	1' - 6' BELOW GRADE
	27VL+55 - 28VL+15	5' RT - 27' LT	152	1' - 8' BELOW GRADE
	42VL+55 - 43VL+10	0' - 35' RT	40	2.5' - 8' BELOW GRADE
	46VL+00 - 46VL+45	0' - 32' RT	111	1' - 6' BELOW GRADE
	46VL+45 - 47VL+95	0' - 70' LT	1,233	1' - 8' BELOW GRADE
	47VL+55 - 47VL+95	0' - 32' RT	162	1' - 8' BELOW GRADE
PROJECT 2984-00-74 TOTAL			**1,923**	

FINISHING ROADWAY

STATION-STATION	213.0100 2984-00-74 EACH
CAT 0010	
10VL+69 - 64VL+75	1
PROJECT 2984-00-74 TOTAL	**1**

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SUBSTRUCTURE

ROADWAY	STATION-STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
CAT 0010					
STAGE 1					
VLIET STREET	46VL+00 - 67VL+75	RT	6,023	6,023	--
	46VL+00 - 46VL+54	RT	22	66	--
	47VL+53 - 57VL+29	RT	209	628	--
	57VL+62 - 61VL+06	RT	90	271	--
	61VL+36 - 63VL+18	RT	72	217	--
	63VL+43 - 64VL+75	RT	49	148	--
STAGE 1 SUBTOTAL			**6,465**	**7,353**	**--**
STAGE 2					
VLIET STREET	46VL+00 - 64VL+75	LT	5,898	5,898	--
	46VL+00 - 46VL+50	LT	24	71	--
	46VL+91 - 47VL+01	RT	2	5	--
	47VL+01 - 47VL+12	LT	2	5	--
	47VL+49 - 53VL+54	LT	129	386	--
	53VL+90 - 57VL+31	LT	80	240	--
	57VL+63 - 61VL+07	LT	92	275	--
	61VL+36 - 64VL+75	LT	116	347	--
STAGE 2 SUBTOTAL			**6,343**	**7,227**	**--**

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 9/23/2022 3:34:21 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

SUBSTRUCTURE (CONT.)

ROADWAY	STATION-STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
STAGE 3					
VLIET STREET	10VL+69 - 46VL+00	RT	9,636	9,636	--
	10VL+69 - 13VL+90	RT	96	289	--
	14VL+24 - 16VL+67	RT	93	278	--
	17VL+04 - 19VL+86	RT	90	271	--
	20VL+17 - 23VL+18	RT	114	342	--
	23VL+45 - 29VL+98	RT	143	430	--
	30VL+32 - 33VL+33	RT	68	204	--
	33VL+66 - 36VL+65	RT	72	216	--
	36VL+98 - 43VL+21	RT	128	383	--
	43VL+56 - 46VL+00	RT	55	164	--
STAGE 3 SUBTOTAL			**10,495**	**12,213**	**--**
STAGE 4					
VLIET STREET	10VL+69 - 46VL+00	LT	9,747	9,747	--
	10VL+69 - 13VL+89	LT	103	310	--
	14VL+25 - 16VL+69	LT	84	253	--
	17VL+02 - 19VL+82	LT	87	261	--
	20VL+09 - 23VL+19	LT	102	305	--
	23VL+46 - 29VL+99	LT	147	442	--
	30VL+32 - 33VL+32	LT	71	212	--
	33VL+66 - 36VL+59	LT	66	198	--
	36VL+93 - 43VL+21	LT	136	409	--
	46VL+00 - 46VL+50	LT	55	164	--
STAGE 4 SUBTOTAL			**10,598**	**12,301**	**--**
UNDISTRIBUTED			**3,399**	**--**	**34**
PROJECT 2984-00-74 TOTAL			**37,300**	**39,094**	**34**

CONCRETE PAVEMENT ITEMS

ROADWAY	STATION-STATION	OFFSET	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	416.0170 CONCRETE DRIVEWAY 7-INCH SY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
CAT 0010						
STAGE 1						
VLIET STREET	46VL+00 - 64VL+75	RT	5,203	--	--	--
	46VL+92 - 47VL+01	RT	--	--	--	22
	50VL+79 - 51VL+26	RT	--	--	32	--
	54VL+15 - 54VL+44	RT	--	--	19	--
	59VL+20 - 59VL+47	RT	--	--	16	--
STAGE 1 SUBTOTAL			**5,203**	**--**	**67**	**22**
STAGE 2						
VLIET STREET	46VL+00 - 64VL+75	LT	5,264	--	--	--
	47VL+02 - 47VL+11	LT	--	--	--	22
	51VL+73 - 51VL+92	LT	--	--	20	--
	55VL+50 - 55VL+70	LT	--	--	18	--
STAGE 2 SUBTOTAL			**5,264**	**--**	**38**	**22**
STAGE 3						
VLIET STREET	10VL+69 - 46VL+00	RT	8,170	--	--	--
	15VL+13 - 15VL+41	RT	--	--	20	--
	21VL+83 - 22VL+09	RT	--	--	14	--
	22VL+09 - 22VL+33	RT	--	--	15	--
STAGE 3 SUBTOTAL			**8,170**	**--**	**49**	**--**
STAGE 4						
VLIET STREET	10VL+69 - 46VL+00	LT	8,278	--	--	--
	12VL+11 - 12VL+31	LT	--	--	19	--
	15VL+68 - 15VL+80	LT	--	--	13	--
	22VL+34 - 22VL+47	LT	--	--	14	--
STAGE 4 SUBTOTAL			**8,278**	**--**	**46**	**--**
UNDISTRIBUTED			**--**	250	--	**--**
PROJECT 2984-00-74 TOTAL			**26,915**	**250**	**200**	**44**

CONCRETE PAVEMENT GAPS

ROADWAY	STATION-STATION	OFFSET	415.0210 CONCRETE PAVEMENT GAPS EACH
CAT 0010			
STAGE 1			
14TH STREET	9NSL+47 - 9NSL+84	RT/LT	1
12TH LANE	9NSN+58 - 9NSN+78	RT/LT	1
STAGE 1 SUBTOTAL			**2**
STAGE 2			
14TH STREET	10NSL+16 - 10NSL+48	RT/LT	1
STAGE 2 SUBTOTAL			**1**
STAGE 3			
22ND STREET	9NSE+49 - 9NSE+84	RT/LT	1
STAGE 3 SUBTOTAL			**1**
STAGE 4			
22ND STREET	10NSE+16 - 10NSE+49	RT/LT	1
STAGE 4 SUBTOTAL			**1**
PROJECT 2984-00-74 TOTAL			**5**

DRILLED TIE BARS

ROADWAY	STATION	OFFSET	416.0620 DRILLED DOWEL BARS EACH	416.0610 DRILLED TIE BARS EACH
CAT 0010				
STAGE 1				
VLIET ST	64VL+75	RT	--	7
17TH STREET	9NSI+25	RT/LT	--	27
14TH STREET	9NSL+47	RT/LT	--	10
14TH STREET	9NSL+47 - 9NSL+84	RT/LT	23	--
13TH STREET	9NSM+32	RT/LT	--	13
12TH LANE	9NSN+58	RT/LT	--	7
12TH LANE	9NSN+58 - 9NSN+78	RT/LT	12	--
STAGE 1 SUBTOTAL			**35**	**64**
STAGE 2				
VLIET ST	64VL+75	LT	--	8
17TH STREET	10NSI+74	RT/LT	--	27
15TH STREET	10NSK+47	RT/LT	--	11
14TH STREET	10NSL+48	RT/LT	--	9
14TH STREET	10NSL+16 - 10NSL+48	RT/LT	20	--
13TH STREET	10NSM+65	RT/LT	--	13
STAGE 2 SUBTOTAL			**20**	**68**
STAGE 3				
VLIET ST	10VL+69	RT	--	7
VLIET ST	46VL+00	RT	--	6
26TH STREET	9NSA+53	RT/LT	--	10
25TH STREET	9NSB+53	RT/LT	--	11
24TH PLACE	9NSC+50	RT/LT	--	9
24TH STREET	9NSD+41	RT/LT	--	11
22ND STREET	9NSE+49	RT/LT	--	10
22ND STREET	9NSE+49 - 9NSE+84	RT/LT	22	--
21ST STREET	9NSF+49	RT/LT	--	10
20TH STREET	9NSG+40	RT/LT	--	12
18TH STREET	9NSH+49	RT/LT	--	11
STAGE 3 SUBTOTAL			**22**	**97**

DRILLED TIE BARS (CONT.)

ROADWAY	STATION	OFFSET	416.0620 DRILLED DOWEL BARS EACH	416.0610 DRILLED TIE BARS EACH
STAGE 4				
VLIET ST	10VL+69	LT	--	8
VLIET ST	46VL+00	LT	--	4
26TH STREET	10NSA+53	RT/LT	--	11
25TH STREET	10NSB+48	RT/LT	--	10
24TH PLACE	10NSC+44	RT/LT	--	8
24TH STREET	10NSD+59	RT/LT	--	11
22ND STREET	10NSE+49	RT/LT	--	10
22ND STREET	10NSE+16 - 10NSE+49	RT/LT	21	--
21ST STREET	10NSF+49	RT/LT	--	10
20TH STREET	10NSG+64	RT/LT	--	12
18TH STREET	10NSH+52	RT/LT	--	11
STAGE 4 SUBTOTAL			**21**	**95**
PROJECT 2984-00-74 TOTAL			**98**	**324**

ASPHALTIC SURFACE

ROADWAY	STATION-STATION	OFFSET	465.0105 ASPHALTIC SURFACE TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0310 ASPHALTIC CURB LF
CAT 0010					
STAGE 1					
VLIET ST	64VL+74 - 64VL+89	RT	7	--	--
	63VL+75 - 64VL+00	RT	--	--	25
17TH STREET SB	9NSI+10 - 9NSI+25	RT	9	--	--
	8NSI+50-9NSI+73	LT	--	17	--
17TH STREET NB	9NSJ+10 - 9NSJ+25	RT	10	--	--
	10NSJ+27-10NSJ+96	RT	--	9	--
12TH LANE	9NSN+43 - 9NSN+58	RT	6	--	--
STAGE 1 SUBTOTAL			32	26	25
STAGE 2					
VLIET ST	64VL+74 - 64VL+89	RT	7	--	--
	63VL+75 - 64VL+00	LT	--	--	25
	46VL+00 - 46VL+52	LT	12	12	--
17TH STREET SB	10NSI+74 - 10NSI+89	LT	10	--	--
17TH STREET NB	10NSJ+74 - 10NSJ+89	LT	9	--	--
13TH STREET	10NSM+65 - 10NSM+80	LT	11	--	--
STAGE 2 SUBTOTAL			49	12	25
STAGE 3					
VLIET ST	10VL+59 - 10VL+69	RT	5	--	--
25TH STREET	9NSB+38 - 9NSB+53	RT	9	--	--
24TH PLACE	9NSC+35 - 9NSC+50	RT	8	--	--
24TH STREET	9NSD+26 - 9NSD+41	RT	9	--	--
22ND STREET	9NSE+34 - 9NSE+49	RT	8	--	--
21ST STREET	9NSF+34 - 9NSF+49	RT	8	--	--
STAGE 3 SUBTOTAL			47	--	--
STAGE 4					
VLIET ST	10VL+59 - 10VL+69	RT	7	--	--
26TH STREET	10NSA+53 - 10NSA+68	LT	9	--	--
25TH STREET	10NSB+48 - 10NSB+63	LT	8	--	--
24TH PLACE	10NSC+44 - 10NSC+59	LT	6	--	--
24TH STREET	10NSD+59 - 10NSD+74	LT	9	--	--
22ND STREET	10NSE+49 - 10NSE+64	LT	8	--	--
21ST STREET	10NSF+49 - 10NSF+64	LT	8	--	--
STAGE 4 SUBTOTAL			55	--	--
UNDISTRIBUTED					
PROJECT 2984-00-74 TOTAL			**183**	**38**	**50**

CURB & GUTTER ITEMS

ROADWAY	STATION-STATION	OFFSET	601.0331 CONCRETE CURB AND GUTTER 31-INCH LF	601.0600 CONCRETE CURB PEDESTRIAN LF
CAT 0010				
STAGE 1				
VLIET STREET	46VL+00 - 46VL+55	RT	102	--
	46VL+87 - 47VL+06	RT	107	--
	47VL+52 - 57VL+29	RT	1,062	--
	57VL+62 - 61VL+06	RT	414	--
	61VL+35 - 63VL+19	RT	246	--
	61VL+51 - 61VL+68	RT	--	24
	63VL+42 - 64VL+75	RT	148	--
STAGE 1 SUBTOTAL			**2,079**	**24**
STAGE 2				
VLIET STREET	46VL+00 - 46VL+51	LT	98	--
	46VL+97 - 47VL+17	LT	106	--
	47VL+53 - 53VL+55	LT	679	--
	57VL+76 - 57VL+88	LT	--	22
	53VL+89 - 57VL+32	LT	391	--
	57VL+62 - 61VL+07	LT	413	--
	61VL+35 - 64VL+75	LT	377	--
	61VL+51 - 61VL+51	LT	--	15
STAGE 2 SUBTOTAL			**2,064**	**37**
STAGE 3				
VLIET ST	10VL+69 - 13VL+91	RT	345	--
	14VL+23 - 16VL+67	RT	283	--
	17VL+04 - 19VL+86	RT	328	--
	17VL+13 - 17VL+29	RT	--	32
	20VL+16 - 23VL+19	RT	361	--
	20VL+28 - 20VL+33	RT	--	13
	22VL+88 - 23VL+05	RT	--	32
	23VL+45 - 29VL+99	RT	710	--
	26VL+99 - 27VL+15	RT	--	16
	30VL+31 - 33VL+33	RT	353	--
	30VL+43 - 30VL+53	RT	--	22
	33VL+66 - 36VL+66	RT	359	--
	36VL+35 - 36VL+52	RT	--	25
	36VL+98 - 43VL+21	RT	684	--
	43VL+56 - 46VL+00	RT	272	--
	43VL+67 - 43VL+80	RT	--	23
STAGE 3 SUBTOTAL			**3,695**	**162**

CURB & GUTTER ITEMS (CONT.)

ROADWAY	STATION-STATION	OFFSET	601.0331 CONCRETE CURB AND GUTTER 31-INCH LF	601.0600 CONCRETE CURB PEDESTRIAN LF
STAGE 4				
VLIET ST	10VL+70 - 13VL+90	LT	352	--
	14VL+24 - 16VL+69	LT	294	--
	14VL+35 - 14VL+55	LT	--	29
	17VL+01 - 19VL+82	LT	322	--
	17VL+12 - 17VL+28	LT	--	28
	19VL+61 - 19VL+76	LT	--	15
	20VL+08 - 23VL+13	LT	364	--
	20VL+14 - 20VL+33	LT	--	31
	23VL+50 - 29VL+99	LT	710	--
	23VL+59 - 23VL+79	LT	--	25
	30VL+31 - 33VL+33	LT	343	--
	30VL+43 - 30VL+60	LT	--	31
	33VL+01 - 33VL+23	LT	--	38
	33VL+65 - 36VL+60	LT	352	--
	33VL+75 - 33VL+92	LT	--	31
	36VL+38 - 36VL+50	LT	--	25
	36VL+98 - 43VL+33	LT	693	--
	37VL+08 - 37VL+19	LT	--	26
	43VL+02 - 43VL+11	LT	--	24
	43VL+56 - 46VL+00	LT	265	--
	43VL+67 - 43VL+87	LT	--	37
STAGE 4 SUBTOTAL			**3,695**	**340**
PROJECT 2984-00-74 TOTAL			**11,533**	**563**

CONCRETE SIDEWALK

ROADWAY	STATION-STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF
CAT 0010				
STAGE 1				
VLIET ST	46VL+00- 46VL+54	RT	590	20
VLIET ST	46VL+91 - 47VL+02	RT	43	20
VLIET ST	47VL+23 - 50VL+85	RT	1,937	20
VLIET ST	52VL+12 - 54VL+18	RT	1,599	20
VLIET ST	54VL+38 - 57VL+29	RT	1,956	20
VLIET ST	57VL+62 - 59VL+27	RT	1,038	20
VLIET ST	59VL+41 - 61VL+04	RT	1,259	20
VLIET ST	61VL+36 - 63VL+18	RT	1,937	30
VLIET ST	63VL+43 - 64VL+75	RT	1,332	10
STAGE 1 SUBTOTAL			**11,690**	**180**
STAGE 2				
VLIET ST	43VL+57 - 46VL+00	LT	641	20
VLIET ST	47VL+01 - 47VL+12	LT	43	20
VLIET ST	47VL+49 - 51VL+73	LT	2,341	20
VLIET ST	51VL+92 - 53VL+54	LT	952	20
VLIET ST	53VL+90 - 55VL+50	LT	922	20
VLIET ST	55VL+70 - 57VL+31	LT	1,074	20
VLIET ST	57VL+63 - 61VL+07	LT	2,458	40
VLIET ST	61VL+36 - 64VL+75	LT	3,121	30
STAGE 2 SUBTOTAL			**11,552**	**190**
STAGE 3				
VLIET ST	10VL+70 - 13VL+90	RT	2,603	20
VLIET ST	14VL+24 - 15VL+19	RT	1,166	20
VLIET ST	15VL+34 - 16VL+67	RT	1,155	20
VLIET ST	17VL+04 - 19VL+86	RT	2,424	40
VLIET ST	20VL+17 - 21VL+90	RT	1,732	20
VLIET ST	22VL+02 - 22VL+14	RT	67	--
VLIET ST	22VL+24 - 23VL+18	RT	1,009	20
VLIET ST	23VL+45 - 29VL+99	RT	3,854	50
VLIET ST	30VL+32 - 33VL+33	RT	1,830	40
VLIET ST	33VL+66 - 36VL+65	RT	1,928	40
VLIET ST	36VL+98 - 43VL+21	RT	3,445	40
VLIET ST	43VL+56 - 46VL+00	RT	1,462	20
STAGE 3 SUBTOTAL			**22,675**	**330**

CONCRETE SIDEWALK (CONT.)

ROADWAY	STATION-STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
STAGE 4				
VLIET ST	10VL+70 - 12VL+11	LT	1,071	--
VLIET ST	12VL+31 - 13VL+90	LT	1,553	20
VLIET ST	14VL+24 - 15VL+68	LT	1,314	20
VLIET ST	15VL+80 - 16VL+69	LT	833	20
VLIET ST	17VL+02 - 19VL+82	LT	2,319	40
VLIET ST	20VL+09 - 22VL+34	LT	1,862	20
VLIET ST	22VL+47 - 23VL+19	LT	748	20
VLIET ST	23VL+46 - 29VL+99	LT	3,961	50
VLIET ST	30VL+32 - 33VL+32	LT	1,869	40
VLIET ST	33VL+66 - 36VL+59	LT	1,752	40
VLIET ST	36VL+93 - 43VL+21	LT	3,657	40
VLIET ST	43VL+57 - 46VL+50	LT	1,457	20
STAGE 4 SUBTOTAL			**22,397**	**330**
PROJECT 2984-00-74 TOTAL			**68,314**	**1,030**

STORM SEWER PIPES

PIPE ID	SLOPE	INVERT ELEVATION INLET	INVERT ELEVATION DISCHARGE	STRUCTURE FROM	STRUCTURE TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	REMARKS
CAT 0010									
STAGE 1									
P95	0.50%	93.92	93.72	IN75	IN78	41	--	--	
P96	0.50%	89.50	89.39	IN78	MH42	24	--	--	
P100	0.52%	89.75	89.71	STUB	MH37	7	--	--	STAGE 1 BREAK, 6.0' LT
P107	0.50%	91.42	91.39	STUB	MH46	7	--	--	STAGE 1 BREAK, 6.0' LT
P108	0.50%	95.00	94.83	IN84	IN103	36	--	--	
P109	0.50%	91.50	91.32	IN103	MH46	39	--	--	
P120	0.50%	94.55	94.45	IN48	MH37	22	--	--	
P125	0.50%	91.50	91.38	IN91	MH51	27	--	--	
P127	0.50%	92.14	92.11	STUB	MH53	7	--	--	STAGE 1 BREAK, 6.0' LT
P128	0.50%	97.37	97.08	IN105	IN93	59	--	--	
P129	0.50%	92.12	92.01	IN93	MH53	25	--	--	
P130	0.50%	92.30	92.25	STUB	MH54	9	--	--	STAGE 1 BREAK, 6.0' LT
P133	0.50%	91.92	91.88	STUB	MH55	8	--	--	STAGE 1 BREAK, 6.0' LT
P134	0.50%	92.60	92.47	IN98	MH55	30	--	--	
P135	0.62%	93.50	93.38	IN99	MH56	23	--	--	
P136	0.50%	93.60	93.47	IN101	MH58	29	--	--	
P137	0.50%	93.39	93.37	STUB	MH58	5	--	--	STAGE 1 BREAK, 6.0' LT
P142	0.50%	97.19	97.08	IN93A	IN93	25	--	--	
P143	0.50%	94.15	93.92	IN75A	IN75	48	--	--	
P146	0.50%	95.15	95	IN84A	IN84	32	--		
P171	0.50%	89.23	89.20	STUB	MH218	7	--	--	STAGE 1 BREAK, 6.0' LT
P172	0.50%	89.50	89.31	IN71	MH39	41	--	--	
P173	0.50%	89.30	89.20	IN70	MH218	22	--	--	
P175	0.50%	89.38	89.32	STUB	MH41	12	--	--	STAGE 1 BREAK, 6.0' LT
P177	0.50%	89.50	89.32	IN76	MH41	39	--	--	
P178	0.54%	89.36	89.31	STUB	MH42	10	--	--	STAGE 1 BREAK, 6.0' LT
P181	0.50%	89.90	89.80	IN80	MH43	23	--	--	
P186	0.50%	91.93	91.90	STUB	MH47	6	--	--	STAGE 1 BREAK, 6.0' LT
P187	0.50%	92.04	93.93	IN86	MH47	25	--	--	
P191	0.50%	91.57	91.52	STUB	MH51	10	--	--	STAGE 1 BREAK, 6.0' LT
STAGE 1 SUBTOTAL						**698**	**--**	**--**	
STAGE 2									
P98	0.55%	90.50	90.43	IN81	MH121	16	--	--	
P99	0.60%	90.50	90.42	IN82	MH121	16	--	--	
P100	0.52%	89.82	89.75	IN49	STUB	18	--	1	STAGE 1 BREAK, 6.0' LT
P106	0.50%	96.24	95.89	IN83	IN102	73	--	--	
P107	0.50%	91.50	91.42	IN102	STUB	19	--	1	STAGE 1 BREAK, 6.0' LT

STORM SEWER PIPES (CONT.)

PIPE ID	SLOPE	INVERT ELEVATION INLET	INVERT ELEVATION DISCHARGE	STRUCTURE FROM	STRUCTURE TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	REMARKS
P122	0.50%	90.50	90.44	IN89	MH122	15	--	--	
P126	0.50%	97.30	97.14	IN104	IN92	34	--	--	
P127	0.50%	92.23	92.14	IN92	STUB	20	--	1	STAGE 1 BREAK, 6.0' LT
P130	0.50%	92.41	92.30	IN94	STUB	27	--	1	STAGE 1 BREAK, 6.0' LT
P131	0.50%	96.75	96.63	IN95	IN96	26	--	--	
P132	0.50%	96.53	96.32	IN96	IN97	45	--	--	
P133	0.50%	92.00	91.92	IN97	STUB	19	--	1	STAGE 1 BREAK, 6.0' LT
P137	0.50%	93.55	93.39	IN100	STUB	34	--	1	STAGE 1 BREAK, 6.0' LT
P140	0.50%	95.50	95.44	IN106	MH122	14	--	--	
P144	0.50%	96.44	96.32	IN97A	IN97	25	--	--	
P145	0.50%	93.53	93.38	IN100A	MH56	33	--	--	
P162	0.50%	91.50	91.43	IN62	MH120	17	--	--	
P163	0.54%	90.15	90.02	IN63	MH120	28	--	--	
P164	0.55%	90.33	90.21	IN64	IN63	23	--	--	
P165	0.69%	90.55	90.33	IN65	IN64	34	--	--	
P167	0.55%	94.91	94.65	IN66	IN63	49	--	--	
P171	0.50%	89.3	89.23	IN72	STUB	17	--	1	STAGE 1 BREAK, 6.0' LT
P175	0.50%	89.50	89.38	IN74	STUB	28	--	1	STAGE 1 BREAK, 6.0' LT
P178	0.54%	89.50	89.36	IN77	STUB	29	--	1	STAGE 1 BREAK, 6.0' LT
P186	0.50%	92.02	91.93	IN85	STUB	22	--	1	STAGE 1 BREAK, 6.0' LT
P191	0.50%	91.70	91.57	IN90	STUB	28	--	1	STAGE 1 BREAK, 6.0' LT
STAGE 2 SUBTOTAL						**709**	**--**	**11**	
STAGE 3									
P56	0.51%	82.56	82.46	IN10	MH10	23	--	--	
P57	0.52%	82.66	82.63	STUB	MH10	6	--	--	STAGE 1 BREAK, 6.0' LT
P58	0.51%	90.02	90.01	STUB	MH200	6	--	--	STAGE 1 BREAK, 6.0' LT
P59	0.70%	93.20	93.06	IN14	MH12	23	--	--	
P60	0.50%	93.08	93.04	STUB	MH12	7	--	--	STAGE 1 BREAK, 6.0' LT
P61	0.52%	90.41	90.38	STUB	MH14	7	--	--	STAGE 1 BREAK, 6.0' LT
P62	0.50%	89.54	89.36	IN16	MH14	39	--	--	
P63	0.53%	92.99	92.95	STUB	MH16	7	--	--	STAGE 1 BREAK, 6.0' LT
P65	0.50%	98.37	98.27	IN19	MH202	24	--	--	
P66	0.86%	98.77	98.56	IN21	MH18	28	--	--	
P67	0.87%	98.62	98.56	STUB	MH18	7	--	--	STAGE 1 BREAK, 6.0' LT
P68	0.50%	99.32	99.24	IN22	MH203	18	--	--	
P69	0.52%	93.69	93.61	IN67	MH103	17	--	--	
P71	0.50%	92.89	92.60	MH105	MH15	--	62	--	
P73	0.53%	99.71	99.68	STUB	MH19	6	--	--	STAGE 1 BREAK, 6.0' LT
P75	0.50%	99.52	99.45	IN26	MH204	18	--	--	
P76	0.54%	99.48	99.45	STUB	MH204	6	--	--	STAGE 1 BREAK, 6.0' LT
P77	0.66%	99.93	99.82	IN27	MH205	19	--	--	
P78	0.52%	99.86	99.83	STUB	MH205	6	--	--	STAGE 1 BREAK, 6.0' LT
P79	0.50%	100.82	100.74	IN30	MH21	18	--	--	
P80	0.53%	100.78	100.75	STUB	MH21	5	--	--	STAGE 1 BREAK, 6.0' LT
P83	0.50%	101.66	101.59	IN33	MH207	17	--	--	
P84	0.50%	99.20	99.10	IN34	MH23	22	--	--	
P85	0.56%	94.24	94.20	STUB	MH23	7	--	--	STAGE 1 BREAK, 6.0' LT
P86	0.50%	93.61	93.53	IN36	MH25	19	--	--	

STORM SEWER PIPES (CONT.)

PIPE ID	SLOPE	INVERT ELEVATION INLET	INVERT ELEVATION DISCHARGE	STRUCTURE FROM	STRUCTURE TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	REMARKS
P87	0.51%	89.09	89.06	STUB	MH25	5	--	--	STAGE 1 BREAK, 6.0' LT
P88	0.54%	92.90	92.83	IN39	MH28	17	--	--	
P89	0.50%	96.91	96.85	IN52	MH105	15	--	--	
P90	0.50%	93.14	93.07	IN40	MH208	16	--	--	
P91	0.60%	88.49	88.45	STUB	MH28	7	--	--	STAGE 1 BREAK, 6.0' LT
P92	0.50%	88.76	88.73	STUB	MH208	7	--	--	STAGE 1 BREAK, 6.0' LT
P93	0.50%	93.44	93.34	IN42	MH29	24	--	--	
P94	0.50%	93.53	93.43	IN43	MH31	24	--	--	
P97	0.50%	89.15	89.11	STUB	MH33	7	--	--	STAGE 1 BREAK, 6.0' LT
P101	0.76%	92.96	92.89	IN53	MH105	13	--	--	
P102	0.55%	98.09	97.95	IN18	MH16	28	--	--	
P104	0.50%	98.47	98.44	STUB	MH17	7	--	--	STAGE 1 BREAK, 6.0' LT
P105	0.50%	98.62	98.45	IN2	MH17	38	--	--	
P110	0.71%	100.09	100.00	IN57	MH110	15	--	--	
P111	0.50%	100.96	100.82	IN32	IN30	30	--	--	
P112	0.50%	101.33	101.31	STUB	MH207	6	--	--	STAGE 1 BREAK, 6.0' LT
P113	0.50%	87.94	87.89	STUB	MH29	10	--	--	STAGE 1 BREAK, 6.0' LT
P114	0.50%	88.98	88.95	STUB	MH31	7	--	--	STAGE 1 BREAK, 6.0' LT
P117	0.50%	87.20	87.17	STUB	MH2	6	--	--	STAGE 1 BREAK, 6.0' LT
P118	0.50%	93.84	93.77	IN45	MH2	17	--	--	
P119	0.52%	93.78	93.69	IN47	MH33	21	--	--	
P141	0.50%	99.59	99.52	IN23	MH19	17	--	--	
P150	0.52%	91.00	90.94	IN50	MH100	15	--	--	
P151	0.51%	87.67	87.61	IN51	MH100	15	--	--	
P154	0.50%	95.06	94.98	IN54	MH107	20	--	--	
P155	0.50%	94.39	94.31	IN55	MH107	19	--	--	
P156	0.61%	100.07	100.00	IN56	MH110	15	--	--	
P158	0.59%	96.69	96.63	IN58	MH112	14	--	--	
P159	0.57%	97.03	96.95	IN59	MH112	16	--	--	
P169	0.53%	90.04	89.97	IN68	MH103	17	--	--	
STAGE 3 SUBTOTAL						**823**	**62**	**--**	
STAGE 4									
P57	0.52%	82.73	82.66	IN11	STUB	17	--	1	STAGE 1 BREAK, 6.0' LT
P58	0.51%	90.11	90.02	IN12	STUB	17	--	1	STAGE 1 BREAK, 6.0' LT
P60	0.50%	93.15	93.08	IN13	STUB	18	--	1	STAGE 1 BREAK, 6.0' LT
P61	0.52%	90.49	90.41	IN15	STUB	17	--	1	STAGE 1 BREAK, 6.0' LT
P63	0.53%	93.08	92.99	IN17	STUB	21	--	1	STAGE 1 BREAK, 6.0' LT
P67	0.87%	98.78	98.62	IN20	STUB	22	--	1	STAGE 1 BREAK, 6.0' LT
P73	0.53%	99.75	99.71	IN24	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P76	0.54%	99.53	99.48	IN25	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P78	0.52%	99.90	99.86	IN28	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P80	0.53%	100.85	100.78	IN29	STUB	17	--	1	STAGE 1 BREAK, 6.0' LT
P81	0.50%	100.98	100.85	IN31	IN29	29	--	--	
P85	0.56%	94.28	94.24	IN35	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P87	0.51%	89.13	89.09	IN37	STUB	12	--	1	STAGE 1 BREAK, 6.0' LT
P91	0.60%	88.54	88.49	IN38	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P92	0.50%	88.80	88.76	IN41	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT

STORM SEWER PIPES (CONT.)

PIPE ID	SLOPE	INVERT ELEVATION INLET	INVERT ELEVATION DISCHARGE	STRUCTURE FROM	STRUCTURE TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	REMARKS
P97	0.50%	89.19	89.15	IN46	STUB	13	--	1	STAGE 1 BREAK, 6.0' LT
P104	0.50%	98.56	98.47	IN1	STUB	21	--	1	STAGE 1 BREAK, 6.0' LT
P112	0.50%	101.38	101.33	IN5	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P113	0.50%	88.00	87.94	IN6	STUB	16	--	1	STAGE 1 BREAK, 6.0' LT
P114	0.50%	89.08	88.98	IN44	STUB	22	--	1	STAGE 1 BREAK, 6.0' LT
P117	0.50%	87.24	87.20	IN7	STUB	11	--	1	STAGE 1 BREAK, 6.0' LT
P121	0.50%	89.20	89.08	IN44A	IN44	26	--		
P160	0.50%	93.78	93.71	IN60	MH117	17	--	--	
P161	0.52%	88.59	88.53	IN61	MH117	15	--	--	
STAGE 4 SUBTOTAL						**388**	**--**	**20**	
PROJECT 2984-00-74 TOTAL						**2,618**	**62**	**31**	

STORM SEWER ITEMS

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	INVERT OUT ELEV	611.2004 MANHOLE 4-FT DIAMETER EACH	611.2005 MANHOLE 5-FT DIAMETER EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.102 INLET COVER TYPE MS 57 EACH	SPV.0060.103 MANHOLE COVER TYPE MS 58-A EACH	SPV.0060.110 CATCH BASIN TYPE 44A EACH	SPV.0060.112 STORM INLET TYPE 45A EACH	NOTES
CAT 0010												
STAGE 1												
MH34	46VL+26	.9' RT	98.85	-	--	--	1	--	1	--	--	
MH35	46VL+53	6.5' RT	98.88	-	--	--	1	--	1	--	--	
MH36	47VL+10	.1' LT	99.11	-	--	--	1	--	1	--	--	
MH37	47VL+93	.9' RT	99.35	-	--	--	1	--	1	--	--	
IN48	47VL+93	24.0' RT	98.94	94.55	--	--	--	1	--	1	--	
MH38	48VL+01	6.0' RT	99.27	-	--	--	1	--	1	--	--	
MH218	48VL+50	.9' RT	99.33	86.20	1	--	--	--	1	--	--	
IN70	48VL+50	24.0' RT	98.87	89.30	--	--	--	1	--	1	--	
IN71	49VL+20	24.0' RT	99.02	89.50	--	--	--	1	--	1	--	
MH39	49VL+54	1.0' RT	99.69	-	--	--	1	--	1	--	--	
MH40	49VL+83	7.1' RT	99.65	-	--	--	1	--	1	--	--	
MH41	50VL+38	1.1' RT	99.79	-	--	--	1	--	1	--	--	
IN76	50VL+70	24.0' RT	99.13	89.50	--	--	--	1	--	1	--	
IN75A	51VL+36	24.0' RT	99.15	94.15	--	--	--	1	--	--	1	
IN75	51VL+85	24.0' RT	99.20	93.92	--	--	--	1	--	--	1	
IN78	52VL+26	24.0' RT	99.38	89.50	--	--	--	1	--	1	--	
MH42	52VL+32	.3' LT	99.98	-	--	--	1	--	1	--	--	
IN80	53VL+20	24.0' RT	99.70	89.90	--	--	--	1	--	1	--	
MH43	53VL+26	.5' RT	100.36	-	--	--	1	--	1	--	--	
MH44	53VL+54	5.7' RT	100.33	-	--	--	1	--	1	--	--	

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 9/15/2022 2:33:53 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

STORM SEWER ITEMS (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	INVERT OUT ELEV	611.2004 MANHOLE 4-FT DIAMETER EACH	611.2005 MANHOLE 5-FT DIAMETER EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.102 INLET COVER TYPE MS 57 EACH	SPV.0060.103 MANHOLE COVER TYPE MS 58-A EACH	SPV.0060.110 CATCH BASIN TYPE 44A EACH	SPV.0060.112 STORM INLET TYPE 45A EACH	NOTES
IN84A	54VL+13	21.5' RT	100.15	95.15	--	--	--	1	--	--	1	
MH45	54VL+14	1.1' LT	100.75	-	--	--	1	--	1	--	--	
IN84	54VL+45	24.0' RT	100.27	95.00	--	--	--	1	--	--	1	
IN103	54VL+80	24.0' RT	100.37	91.50	--	--	--	1	--	1	--	
MH46	55VL+12	.1' LT	101.04	-	--	--	1	--	1	--	--	
IN86	56VL+03	24.0' RT	100.84	92.04	--	--	--	1	--	1	--	
MH47	56VL+08	1.6' LT	101.30	-	--	--	1	--	1	--	--	
MH48	56VL+90	7.0' RT	101.46	-	--	--	1	--	1	--	--	
MH49	57VL+05	1.8' LT	101.60	-	--	--	1	--	1	--	--	
MH50	57VL+44	5.4' RT	101.69	-	--	--	1	--	1	--	--	
MH51	57VL+86	.1' LT	101.86	-	--	--	1	--	1	--	--	
IN91	58VL+00	24.0' RT	101.37	91.50	--	--	--	1	--	1	--	
IN93A	59VL+50	24.0' RT	101.57	97.19	--	--	--	1	--	--	1	
IN93	59VL+75	24.0' RT	101.64	92.12	--	--	--	1	--	1	--	
MH53	59VL+83	.2' LT	102.36	-	--	--	1	--	1	--	--	
IN105	60VL+34	24.0' RT	101.83	97.37	--	--	--	1	--	--	1	
MH54	60VL+78	.2' LT	102.49	-	--	--	1	--	1	--	--	
MH55	61VL+64	.9' RT	102.80	-	--	--	1	--	1	--	--	
IN98	61VL+85	24.0' RT	102.20	92.60	--	--	--	1	--	1	--	
MH56	63VL+77	.5' RT	103.61	-	--	--	1	--	1	--	--	
IN99	64VL+00	24.0' RT	103.13	93.50	--	--	--	1	--	1	--	
IN101	64VL+67	24.0' RT	103.05	93.60	--	--	--	1	--	1	--	
MH58	64VL+84	0.0' RT	103.57	-	--	--	1	--	1	--	--	
MH119	9NSI+65	6.6' LT	98.55	-	--	--	1	--	1	--	--	
MH123	9NSM+65	.8' LT	101.96	-	--	--	1	--	1	--	--	
STAGE 1 SUBTOTAL					**1**	**--**	**25**	**19**	**26**	**13**	**6**	
STAGE 2												
IN49	47VL+99	24.0' LT	99.16	89.82	--	--	--	1	--	1	--	
IN72	48VL+50	24.0' RT	98.87	89.30	--	--	--	1	--	1	--	
IN74	50VL+70	24.0' LT	99.24	89.50	--	--	--	1	--	1	--	
IN77	52VL+01	24.0' RT	99.41	89.50	--	--	--	1	--	1	--	
IN83	54VL+27	24.0' LT	100.37	96.24	--	--	--	1	--	--	1	
IN102	55VL+00	24.0' LT	100.53	91.50	--	--	--	1	--	1	--	
IN85	55VL+90	24.0' LT	100.80	92.02	--	--	--	1	--	1	--	
IN90	58VL+17	24.0' LT	101.41	91.70	--	--	--	1	--	1	--	
IN104	59VL+33	24.0' LT	101.74	97.30	--	--	--	1	--	--	1	
IN92	59VL+67	24.0' LT	101.84	92.23	--	--	--	1	--	1	--	
IN94	60VL+50	24.0' LT	102.16	92.41	--	--	--	1	--	1	--	
IN97	61VL+75	24.0' LT	102.73	92.00	--	--	--	1	--	1	--	
IN97A	62VL+00	24.0' LT	102.66	96.44	--	--	--	1	--	--	1	
IN100A	64VL+00	24.0' LT	103.33	93.53	--	--	--	1	--	1	--	
MH57	64VL+53	13.4' LT	103.55	-	--	--	1	--	1	--	--	
IN100	64VL+54	24.9' LT	103.32	93.55	--	--	--	1	--	1	--	
IN62	10NSI+41	23.0' LT	99.15	91.50	--	--	--	1	--	1	--	
IN63	10NSI+42	24.0' RT	99.31	90.21	--	--	--	1	--	1	--	
MH120	10NSI+43	4.8' LT	99.44	-	--	--	1	--	1	--	--	
IN64	10NSJ+51	13.0' LT	99.84	90.33	--	--	--	1	--	--	1	

STORM SEWER ITEMS (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	INVERT OUT ELEV	611.2004 MANHOLE 4-FT DIAMETER EACH	611.2005 MANHOLE 5-FT DIAMETER EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.102 INLET COVER TYPE MS 57 EACH	SPV.0060.103 MANHOLE COVER TYPE MS 58-A EACH	SPV.0060.110 CATCH BASIN TYPE 44A EACH	SPV.0060.112 STORM INLET TYPE 45A EACH	NOTES
IN65	10NSJ+52	23.0' RT	99.42	90.55	--	--	--	1	--	--	1	
IN66	10NSI+92	23.0' RT	99.39	94.91	--	--	--	1	--	--	1	
IN81	10NSK+42	17.0' LT	100.19	90.50	--	--	--	1	--	1	--	
MH121	10NSK+44	.3' LT	100.74	-	--	--	1	--	1	--	--	
IN82	10NSK+42	17.0' RT	100.21	90.50	--	--	--	1	--	1	--	
IN106	10NSL+40	15.0' LT	101.52	95.50	--	--	--	1	--	1	--	
MH122	10NSL+45	.6' LT	101.73	-	--	--	1	--	--	--	--	
IN89	10NSL+40	15.0' RT	101.47	90.50	--	--	--	1	--	1	--	
IN95	10NSM+40	14.0' LT	102.64	96.75	--	--	--	1	--	--	1	
IN96	10NSM+42	14.0' RT	102.74	96.53	--	--	--	1	--	--	1	
STAGE 2 SUBTOTAL					**--**	**--**	**4**	**26**	**3**	**18**	**8**	
STAGE 3												
IN10	10VL+80	24.0' RT	92.4	82.56	--	--	--	1	--	1	--	
MH10	10VL+83	0.0' RT	92.63	-	--	--	1	--	1	--	--	
MH200	12VL+36	.3' LT	95.02	82.77	--	1	--	--	1	--	--	
MH11	13VL+65	.5' LT	96.85	84.50	--	--	1	--	1	--	--	
MH12	14VL+54	1.0' RT	97.91	-	--	--	1	--	1	--	--	
IN14	14VL+59	24.0' RT	97.62	93.20	--	--	--	1	--	1	--	
MH13	16VL+42	.6' LT	99.63	-	--	--	1	--	1	--	--	
MH14	17VL+27	.7' RT	100.02	-	--	--	1	--	1	--	--	
IN16	17VL+59	24.0' RT	100.06	89.54	--	--	--	1	--	1	--	
MH15	19VL+60	.8' LT	102.13	-	--	--	1	--	1	--	--	
MH16	20VL+44	.4' LT	102.68	-	--	--	1	--	1	--	--	
IN18	20VL+59	24.0' RT	102.39	98.09	--	--	--	1	--	1	--	
MH202	21VL+77	.6' LT	103.33	91.37	1	--	--	--	1	--	--	
IN19	21VL+82	24.0' RT	102.94	98.37	--	--	--	1	--	1	--	
IN2	22VL+63	24.0' RT	103.10	98.62	--	--	--	1	--	1	--	
MH17	22VL+92	.7' LT	103.42	-	--	--	1	--	1	--	--	
MH18	23VL+75	.6' LT	103.69	-	--	--	1	--	1	--	--	
IN21	23VL+96	18.0' RT	103.46	98.77	--	--	--	1	--	1	--	
MH203	25VL+48	.5' LT	104.29	93.51	1	--	--	--	1	--	--	
IN22	25VL+52	18.0' RT	103.95	99.32	--	--	--	1	--	1	--	
MH19	26VL+42	.4' LT	104.59	-	--	--	1	--	1	--	--	
IN23	26VL+43	18.0' RT	104.24	99.59	--	--	--	1	--	1	--	
MH20	27VL+22	.5' LT	104.70	-	--	--	1	--	1	--	--	
MH204	27VL+85	.5' LT	104.56	94.75	1	--	--	--	1	--	--	
IN26	27VL+85	18.0' RT	104.21	99.52	--	--	--	1	--	1	--	
MH205	28VL+89	.5' LT	104.98	94.45	1	--	--	--	1	--	--	
IN27	28VL+89	19.6' RT	104.60	99.93	--	--	--	1	--	1	--	
MH21	30VL+58	.6' LT	105.64	-	--	--	1	--	1	--	--	
IN30	30VL+58	18.0' RT	105.49	100.82	--	--	--	1	--	1	--	
IN32	30VL+88	18.0' RT	105.43	100.96	--	--	--	1	--	--	1	
IN33	32VL+86	18.0' RT	105.96	101.66	--	--	--	1	--	1	--	
MH207	32VL+89	.4' RT	106.22	92.70	1	--	--	--	1	--	--	
MH22	33VL+91	.8' RT	105.84	-	--	--	1	--	1	--	--	
MH23	36VL+37	.1' RT	103.94	-	--	--	1	--	1	--	--	
IN34	36VL+37	24.0' RT	103.80	99.20	--	--	--	1	--	1	--	

STORM SEWER ITEMS (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	INVERT OUT ELEV	611.2004 MANHOLE 4-FT DIAMETER EACH	611.2005 MANHOLE 5-FT DIAMETER EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.102 INLET COVER TYPE MS 57 EACH	SPV.0060.103 MANHOLE COVER TYPE MS 58-A EACH	SPV.0060.110 CATCH BASIN TYPE 44A EACH	SPV.0060.112 STORM INLET TYPE 45A EACH	NOTES
MH24	39VL+24	29.4' RT	99.38	-	--	--	1	--	1	--	--	
MH25	39VL+67	1.0' LT	98.54	-	--	--	1	--	1	--	--	
IN36	39VL+72	18.0' RT	98.11	93.61	--	--	--	1	--	1	--	
MH26	39VL+85	28.1' RT	98.74	-	--	--	1	--	1	--	--	
MH27	40VL+21	15.3' RT	97.62	-	--	--	1	--	1	--	--	
MH28	40VL+50	.7' RT	97.77	-	--	--	1	--	1	--	--	
IN39	40VL+55	18.0' RT	97.41	92.90	--	--	--	1	--	1	--	
MH208	41VL+54	.8' RT	98.06	83.72	1	--	--	--	1	--	--	
IN40	41VL+54	18.0' RT	97.72	93.14	--	--	--	1	--	1	--	
IN42	42VL+79	18.0' RT	97.74	93.44	--	--	--	1	--	1	--	
MH29	42VL+97	1.0' RT	98.04	-	--	--	1	--	1	--	--	
MH30	43VL+62	6.5' RT	98.29	-	--	--	1	--	1	--	--	
MH31	43VL+82	.8' LT	98.44	-	--	--	1	--	1	--	--	
IN43	43VL+98	18.0' RT	98.14	93.53	--	--	--	1	--	1	--	
MH32	44VL+63	.5' RT	98.58	-	--	--	1	--	1	--	--	
MH2	45VL+00	.5' RT	98.47	87.07	1	--	--	--	1	--	--	
IN45	45VL+00	18.0' RT	98.07	93.84	--	--	--	1	--	1	--	
MH33	45VL+42	.5' RT	98.60	-	--	--	1	--	1	--	--	
IN47	45VL+51	20.4' RT	98.16	93.78	--	--	--	1	--	1	--	
MH100	9NSA+53	.2' LT	97.34	-	--	--	1	--	1	--	--	
IN50	9NSA+55	16.0' LT	96.89	91.00	--	--	--	1	--	1	--	
MH101	9NSA+61	12.9' LT	96.98	-	--	--	1	--	1	--	--	
IN51	9NSA+55	16.0' RT	97.24	87.67	--	--	--	1	--	1	--	
IN67	9NSB+55	18.0' LT	99.15	93.69	--	--	--	1	--	1	--	
IN68	9NSB+55	18.0' RT	99.48	90.04	--	--	--	1	--	1	--	
MH103	9NSB+56	.0' RT	99.79	-	--	--	1	--	1	--	--	
IN52	9NSC+55	15.0' LT	102.34	96.91	--	--	--	1	--	1	--	
IN53	9NSC+55	15.0' RT	102.51	92.96	--	--	--	1	--	1	--	
MH105	9NSC+55	1.3' RT	102.74	-	--	--	1	--	1	--	--	
IN54	9NSD+46	18.0' LT	103.86	95.06	--	--	--	1	--	1	--	
IN55	9NSD+47	18.0' RT	103.86	94.39	--	--	--	1	--	1	--	OFFSET STRUCTURE TO AVOID 138 KV LINE.
MH107	9NSD+55	.4' RT	104.12	-	--	--	1	--	1	--	--	
IN57	9NSE+55	16.0' RT	105.44	100.09	--	--	--	1	--	1	--	
MH110	9NSE+56	.3' RT	105.84	-	--	--	1	--	1	--	--	
IN56	9NSE+58	16.0' LT	105.39	100.07	--	--	--	1	--	1	--	
IN59	9NSF+54	16.0' RT	106.17	97.03	--	--	--	1	--	1	--	
MH112	9NSF+56	1.2' LT	106.67	-	--	--	1	--	1	--	--	
IN58	9NSF+58	16.0' LT	106.15	96.69	--	--	--	1	--	1	--	OFFSET STRUCTURE TO AVOID PROPOSED WATERMAIN
STAGE 3 SUBTOTAL					**7**	**1**	**31**	**34**	**39**	**33**	**1**	
STAGE 4												
IN11	10VL+85	24.0' LT	92.15	82.73	--	--	--	1	--	1	--	
IN12	12VL+36	24.0' LT	94.54	90.11	--	--	--	1	--	1	--	
IN13	14VL+60	24.0' LT	97.48	93.15	--	--	--	1	--	1	--	
IN15	17VL+26	23.1' LT	99.81	90.49	--	--	--	1	--	1	--	
IN17	20VL+59	24.0' RT	102.29	93.08	--	--	--	1	--	1	--	

STORM SEWER ITEMS (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	INVERT OUT ELEV	611.2004 MANHOLE 4-FT DIAMETER EACH	611.2005 MANHOLE 5-FT DIAMETER EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.102 INLET COVER TYPE MS 57 EACH	SPV.0060.103 MANHOLE COVER TYPE MS 58-A EACH	SPV.0060.110 CATCH BASIN TYPE 44A EACH	SPV.0060.112 STORM INLET TYPE 45A EACH	NOTES
IN1	22VL+76	24.0' LT	103.00	98.56	--	--	--	1	--	1	--	
IN20	23VL+93	24.0' LT	103.28	98.78	--	--	--	1	--	1	--	
IN24	26VL+39	18.0' LT	104.23	99.75	--	--	--	1	--	1	--	
IN25	27VL+85	18.0' LT	104.21	99.53	--	--	--	1	--	1	--	
IN28	28VL+93	18.0' LT	104.65	99.90	--	--	--	1	--	1	--	
IN29	30VL+58	24.0' LT	105.34	100.85	--	--	--	1	--	1	--	
IN31	30VL+87	24.0' LT	105.28	100.98	--	--	--	1	--	--	1	
IN5	32VL+86	18.0' LT	105.88	101.38	--	--	--	1	--	1	--	
IN35	36VL+35	18.0' LT	103.77	94.28	--	--	--	1	--	1	--	
IN37	39VL+72	18.0' LT	98.11	89.13	--	--	--	1	--	1	--	
IN38	40VL+55	18.0' LT	97.41	88.54	--	--	--	1	--	1	--	
IN41	41VL+54	18.0' LT	97.72	88.80	--	--	--	1	--	1	--	
IN6	42VL+79	18.0' LT	97.75	88.00	--	--	--	1	--	1	--	
IN44	44VL+00	24.0' LT	98.25	89.08	--	--	--	1	--	1	--	
IN44A	44VL+25	24.0' LT	98.25	89.20	--	--	--	1	--	--	1	
IN7A	44VL+72	18.8' LT	98.19	87.37	--	--	--	1	--	--	1	
IN7	45VL+00	18.0' LT	98.12	87.24	--	--	--	1	--	1	--	
IN46	45VL+52	18.0' LT	98.26	89.19	--	--	--	1	--	1	--	
MH102	10NSA+44	.2' RT	97.27	-	--	--	1	--	1	--	--	
MH104	10NSB+42	2.1' RT	99.44	-	--	--	1	--	1	--	--	
MH106	10NSC+45	.1' RT	102.11	-	--	--	1	--	1	--	--	
MH111	10NSE+44	.8' LT	105.22	-	--	--	1	--	1	--	--	
MH113	10NSF+42	.7' LT	106.11	-	--	--	1	--	1	--	--	
MH115	10NSG+45	.4' RT	103.01	-	--	--	1	--	1	--	--	
IN60	10NSH+41	17.0' LT	97.97	93.78	--	--	--	1	--	1	--	
IN61	10NSH+43	17.0' RT	97.96	88.59	--	--	--	1	--	1	--	
MH117	10NSH+44	.7' RT	98.24	-	--	--	1	--	1	--	--	
MH118	10NSH+54	1.7' LT	98.36	-	--	--	1	--	--	--	--	
STAGE 4 SUBTOTAL					**--**	**--**	**8**	**25**	**7**	**22**	**3**	
PROJECT 2984-00-74 TOTALS					**8**	**1**	**68**	**104**	**75**	**86**	**18**	

FENCE SAFETY

ROADWAY	616.0700.S FENCE SAFETY LF
CAT 0010	
PROJECT 2984-00-74	
UNDISTRIBUTED	1,500
PROJECT 2984-00-74 TOTAL	**1,500**

MOBILIZATION

ROADWAY	619.1000 MOBILIZATION EACH
PROJECT 2984-00-74	1
PROJECT 2984-00-74 TOTAL	**1**

FINISHING MATERIALS

ROADWAY	STATION	OFFSET	625.0100 TOPSOIL SY	631.1000 SOD LAWN SY
CAT 0010				
STAGE 1				
VLIET ST	46VL+44 - 46VL+55	32' RT	33	33
	46VL+87 - 47VL+06	32' RT	83	83
	47VL+53 - 47VL+62	32' RT	45	45
	47VL+67 - 50VL+79	19' RT	94	94
	51VL+26 - 50VL+90	19' RT	21	21
	52VL+48 - 53VL+43	19' RT	44	44
	53VL+48 - 53VL+96	19' RT	44	44
	54VL+01 - 54VL+15	19' RT	11	11
	54VL+44 - 56VL+74	19' RT	73	73
	57VL+23 - 57VL+29	32' RT	14	14
	57VL+62 - 57VL+67	32' RT	10	10
STAGE 1 SUBTOTAL			**472**	**472**
STAGE 2				
VLIET ST	46VL+00 - 46VL+40	19' LT	36	36
	46VL+45 - 46VL+47	61' LT	8	8
	46VL+97 - 47VL+16	33' LT	81	81
	47VL+48 - 47VL+62	32' LT	49	49
	47VL+67 - 51VL+66	25' LT	111	111
	51VL+98 - 53VL+43	19' LT	47	47
	53VL+48 - 53VL+54	32' LT	10	10
	53VL+89 - 53VL+96	32' LT	11	11
	54VL+01 - 55VL+46	19' LT	50	50
	55VL+76 - 57VL+18	19' LT	48	48
	57VL+78 - 60VL+85	19' LT	97	97
STAGE 2 SUBTOTAL			**548**	**548**
STAGE 3				
VLIET ST	13VL+84 - 13VL+90	31' RT	10	10
	23VL+61 - 27VL+04	19' RT	322	322
	27VL+10 - 29VL+75	19' RT	186	186
	29VL+39 - 29VL+99	40' RT	11	11
	30VL+32 - 30VL+38	39' RT	11	11
	30VL+53 - 33VL+23	19' RT	259	259
	33VL+29 - 33VL+33	32' RT	8	8
	33VL+66 - 33VL+70	32' RT	5	5
	33VL+75 - 36VL+46	19' RT	187	187
	36VL+57 - 36VL+65	35' RT	13	13

FINISHING MATERIALS (CONT.)

ROADWAY	STATION	OFFSET	625.0100 TOPSOIL SY	631.1000 SOD LAWN SY
VLIET ST	36VL+98 - 37VL+03	35' RT	14	14
	37VL+09 - 43VL+10	19' RT	565	565
	43VL+15 - 43VL+21	32' RT	12	12
	43VL+56 - 43VL+63	32' RT	13	13
	43VL+72 - 46VL+39	19' RT	180	180
STAGE 3 SUBTOTAL			**1,796**	**1,796**
STAGE 4				
VLIET ST	14VL+25 - 14VL+29	32' LT	10	10
	17VL+02 - 17VL+07	38' LT	5	5
	23VL+12 - 23VL+14	49' LT	2	2
	23VL+51 - 23VL+53	49' LT	3	3
	23VL+66 - 27VL+03	25' LT	250	250
	27VL+09 - 29VL+80	25' LT	255	255
	29VL+96 - 29VL+98	41' LT	4	4
	30VL+32 - 30VL+37	41' LT	7	7
	30VL+48 - 33VL+23	19' LT	187	187
	33VL+29 - 33VL+31	35' LT	6	6
	33VL+66 - 33VL+71	35' LT	6	6
	33VL+76 - 36VL+47	19' LT	253	253
	36VL+55 - 36VL+59	37' LT	9	9
	36VL+93 - 37VL+03	37' LT	19	19
	37VL+09 - 43VL+10	19' LT	495	495
	43VL+15 - 43VL+21	35' LT	12	12
	43VL+57 - 43VL+63	35' LT	10	10
	43VL+72 - 46VL+00	19' LT	144	144
STAGE 4 SUBTOTAL			**1,677**	**1,677**
UNDISTRIBUTED			**1,307**	**1,307**
PROJECT 2984-00-74 TOTAL			**5,800**	**5,800**

EROSION CONTROL

ROADWAY	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CAT 0010		
UNDISTRIBUTED	8	5
PROJECT 2984-00-74 TOTAL	**8**	**5**

INLET PROTECTION

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
CAT 0010					
STAGE 1					
VLIET ST	43VL+94	RT	--	1	--
	43VL+99	LT	--	1	--
	44VL+97	RT	--	1	--
	45VL+50	LT	--	1	--
	45VL+79	RT	--	1	--
	47VL+93	RT	1	--	1
	47VL+99	LT	--	1	--
	48VL+50	RT	1	--	1
	48VL+86	LT	--	1	--
	49VL+20	RT	1	--	1
	50VL+54	LT	--	1	--
	50VL+70	RT	1	--	1
	51VL+36	RT	1	--	1
	51VL+84	RT	1	--	1
	51VL+84	LT	--	1	--
	52VL+26	RT	1	--	1
	52VL+40	LT	--	1	--
	53VL+20	RT	1	--	1
	54VL+13	RT	1	--	1
	54VL+45	RT	1	--	1
	54VL+55	LT	--	1	--
	54VL+80	RT	1	--	1
	55VL+59	LT	--	1	--
	55VL+90	LT	--	1	--
	56VL+07	RT	1	--	1
	58VL+00	RT	1	--	1
	58VL+17	LT	--	1	--
	59VL+50	RT	1	--	1
	59VL+67	LT	--	1	--
	59VL+75	RT	1	--	1
	60VL+25	RT	1	--	1
	61VL+51	LT	--	1	--
	61VL+89	RT	1	--	1
	63VL+61	RT	1	--	1
	64VL+53	LT	--	1	--
	64VL+67	RT	1	--	1
	65VL+06	LT	--	1	--
	65VL+65	RT	--	1	--
17TH STREET SB	10NSH+41	LT	--	1	--
	10NSH+91	RT	--	1	--

INLET PROTECTION (CONT.)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
17TH STREET NB	10NSJ+49	RT	--	--	1
15TH STREET	10NSK+42	LT	--	1	--
	10NSK+42	RT	--	--	1
14TH STREET	10NSL+37	LT	--	1	--
	10NSL+40	RT	--	1	--
13TH STREET	10NSM+39	RT	--	1	--
	10NSM+43	LT	--	1	--
STAGE 1 SUBTOTAL			**19**	**26**	**21**
STAGE 2					
VLIET ST	47VL+99	LT	1	--	1
	48VL+50	LT	1	--	1
	50VL+70	LT	1	--	1
	52VL+01	LT	1	--	1
	54VL+27	LT	1	--	1
	55VL+00	LT	1	--	1
	55VL+90	LT	1	--	1
	58VL+17	LT	1	--	1
	59VL+33	LT	1	--	1
	59VL+57	LT	1	--	1
	60VL+50	LT	1	--	1
	61VL+75	LT	1	--	1
	62VL+00	LT	1	--	1
	64VL+00	LT	1	--	1
	64VL+54	LT	1	--	1
	65VL+06	LT	--	1	--
	65VL+54	LT	--	1	--
17TH STREET SB	10NSH+41	LT	1	--	1
	10NSH+51	RT	1	--	1
	10NSH+92	RT	1	--	1
17TH STREET NB	10NSJ+52	LT	1	--	1
	10NSJ+52	LT	1	--	1
15TH STREET	10NSK+42	RT	1	--	1
	10NSK+42	LT	1	--	1
14TH STREET	10NSL+40	RT	1	--	1
	10NSL+40	LT	1	--	1
13TH STREET	10NSM+40	LT	1	--	1
	10NSM+42	RT	1	--	1
STAGE 2 SUBTOTAL			**26**	**2**	**26**
STAGE 3 SUBTOTAL					
VLIET ST	10VL+56	RT	--	1	--
	10VL+80	RT	1	--	1
	10VL+87	LT	--	1	--
	12VL+40	LT	--	1	--
	14VL+60	LT	--	--	1

INLET PROTECTION (CONT.)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
VLIET ST	14VL+59	RT	1	--	1
	17VL+26	LT	--	1	--
	17VL+59	RT	1	1	--
	20VL+59	RT	1	--	1
	20VL+61	LT	--	1	--
	21VL+82	RT	1	--	1
	22VL+63	RT	1	--	1
	23VL+96	RT	1	--	1
	24VL+23	LT	--	1	--
	25VL+52	RT	1	--	1
	26VL+37	LT	--	1	--
	26VL+42	RT	1	--	1
	27VL+51	LT	--	1	--
	27VL+84	RT	1	--	1
	28VL+89	RT	1	--	1
	28VL+98	LT	--	1	--
	30VL+59	RT	1	--	1
	30VL+79	RT	1	--	1
	30VL+97	LT	--	1	--
	32VL+86	RT	1	--	1
	36VL+37	RT	1	--	1
	36VL+44	LT	--	1	--
	39VL+72	RT	1	--	1
	39VL+75	LT	--	1	--
	40VL+55	RT	1	--	1
	40VL+61	LT	--	1	--
	41VL+54	RT	1	--	1
	42VL+19	LT	--	1	--
	42VL+79	RT	1	--	1
	43VL+99	RT	1	--	1
	43VL+99	LT	--	1	--
	45VL+00	RT	1	--	1
	45VL+50	LT	--	1	--
	45VL+51	RT	1	--	1
26TH STREET	9NSA+55	LT	1	--	1
	9NSA+56	RT	1	--	1
25TH STREET	9NSB+55	LT	1	--	1
	9NSB+56	RT	1	--	1
24TH PLACE	19VL+87	RT	1	--	1
	20VL+16	LT	1	--	1
24TH STREET	9NSD+46	RT	1	--	1
	9NSD+46	LT	1	--	1
22ND STREET	9NSE+55	RT	1	--	1
	9NSE+58	LT	1	--	1
21ST STREET	9NSF+54	RT	1	--	1

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INLET PROTECTION (CONT.)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
	9NSF+58	LT	1	--	1
18TH STREET	10NSH+41	LT	--	--	1
	10NSH+43	RT	--	--	1
STAGE 3 SUBTOTAL			**34**	**17**	**36**
STAGE 4					
VLIET ST	10VL+85	LT	1	--	1
	12VL+36	LT	1	--	1
	14VL+60	LT	1	--	1
	17VL+26	LT	1	--	1
	20VL+59	LT	1	--	1
	22VL+76	LT	1	--	1
	23VL+93	LT	1	--	1
	26VL+39	LT	1	--	1
	27VL+85	LT	1	--	1
	28VL+93	LT	1	--	1
	30VL+58	LT	1	--	1
	30VL+78	LT	1	--	1
	32VL+86	LT	1	--	1
	36VL+35	LT	1	--	1
	39VL+67	LT	1	--	1
	40VL+55	LT	1	--	1
	41VL+54	LT	1	--	1
	42VL+79	LT	1	--	1
	43VL+99	LT	1	--	1
	44VL+25	LT	1	--	1
	44VL+72	LT	1	--	1
	45VL+00	LT	1	--	1
	45VL+51	LT	1	--	1
18TH STREET	10NSH+42	LT	1	--	1
	10NSH+43	LT	1	--	1
17TH STREET	10NSI+40	LT	--	--	1
	10NSI+42	RT	--	--	1
STAGE 4 SUBTOTAL			**25**	**--**	**27**
UNDISTRIBUTED			10	5	11
PROJECT 2984-00-74 TOTAL			**114**	**50**	**121**

TRAFFIC CONTROL ITEMS

ROADWAY	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH*	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II CYCLES*	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II SIGNS*	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
CAT 0010																				
STAGE 1																				
VLIET ST	44	158	6,952	66	2,904	56	2,464	45	1,980	20	880	1	44	91	4,004	5	1	5	12
17TH ST		203	8,932	4	176	34	1,496	38	1,672	203	8,932	4	176	59	2,596	--	--	--	6
STAGE 1 SUBTOTAL			**15,884**				**3,960**		**3,652**		**9,812**		**220**		**6,600**	**5**			**18**
STAGE 2																				
VLIET ST	49	76	--	67	3,283	48	2,352	37	1,813	--	--	--	--	94	4,606	14	1	14	12
17TH ST		199	9,751	1	49	37	1,813	41	2,009	199	9,751	4	196	58	2,842	--	--	--	--
STAGE 2 SUBTOTAL			**9,751**		**3,332**		**4,165**		**3,822**		**9,751**		**196**		**7,448**	**14**			**12**
STAGE 3																				
VLIET ST	73	277	20,221	122	8,906	105	7,665	79	5,767	15	1,095	1	73	169	12,337	5	1	5	18
STAGE 3 SUBTOTAL			**20,221**		**8,906**		**7,665**		**5,767**		**1,095**		**73**		**12,337**	**5**			**18**
STAGE 4																				
VLIET ST	82	151	12,382	124	10,168	104	8,528	78	6,396	--	--	1	82	168	13,776	5	1	5	12
STAGE 4 SUBTOTAL			**12,382**		**10,168**		**8,528**		**6,396**		**--**		**82**		**13,776**	**5**			**12**
UNDISTRIBUTED			**5,962**		**11,294**		**17,682**		**29,463**		**2,142**		**--**		**11,839**				
PROJECT 2984-00-74 TOTAL			**64,200**		**33,700**		**42,000**		**49,100**		**22,800**		**571**		**52,000**	**29**			**60**

* FOR INFORMATION ONLY

FIELD OFFICE

ROADWAY	642.5201 FIELD OFFICE TYPE C EACH
PROJECT 2984-00-74	1
PROJECT 2984-00-74 TOTAL	**1**

TRAFFIC CONTROL

ROADWAY	643.5000 TRAFFIC CONTROL EACH
PROJECT 2984-00-74	1
PROJECT 2984-00-74 TOTAL	**1**

PEDESTRIAN ACCOMODATIONS

ROADWAY	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1601 TEMPORARY CURB RAMP EACH	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
CAT 0010				
UNDISTRIBUTED	5,750	70	25	1,030
PROJECT 2984-00-74 TOTAL	**5,750**	**70**	**25**	**1,030**

PAVEMENT MARKING (CATEGORY 0010)

ROADWAY	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH 10 FT LINE YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH 2 FT LINE WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH 10 FT LINE WHITE LF	SPV.0090.002 MARKING LINE EPOXY 6-INCH WHITE LF
CAT 0010						
STAGE 2						
VLIET STREET	346	341	2,566	111	--	2,610
17TH STREET	--	--	76	--	43	--
13TH STREET	--	--	--	--	--	--
12TH LANE	--	--	--	--	--	--
STAGE 2 SUBTOTAL	**346**	**341**	**2,642**	**111**	**43**	**2,610**
STAGE 4						
VLIET STREET	--	757	1,722	265	--	4,965
24TH STREET	--	--	--	--	--	--
21ST STREET	--	--	--	--	--	--
20TH STREET	--	--	--	--	--	--
STAGE 4 SUBTOTAL	**--**	**757**	**1,722**	**265**	**--**	**4,965**
PROJECT 2984-00-74 TOTAL			**6,227**			**7,575**

PAVEMENT MARKING REMOVAL

ROADWAY	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF
CAT 0010		
STAGE 1A		
17TH STREET	450	340
STAGE 1A SUBTOTAL	**450**	**340**
PROJECT 2984-00-74 TOTAL	**450**	**340**

PAVEMENT MARKING (CATEGORY 0020)

ROADWAY	SPV.0060.050 MARKING SYMBOL GROOVED PREFORMED PLASTIC EACH	SPV.0060.051 MARKING ARROW GROOVED PREFORMED PLASTIC EACH	SPV.0060.052 MARKING WORD GROOVED PREFORMED PLASTIC EACH	SPV.0090.052 MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH WHITE LF	SPV.0090.053 MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH LF	SPV.0090.054 MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH WHITE LF	SPV.0090.055 MARKING CROSSWALK CONTINENTAL BARS GROOVED PREFORMED PLASTIC 12-INCH WHITE LF
CAT 0020							
STAGE 2							
VLIET STREET	10	9	1	595	90	--	462
17TH STREET	--	--	--	336	89	--	--
13TH STREET	--	--	--	121	24	--	--
12TH LANE	--	--	--	42	--	--	--
STAGE 2 SUBTOTAL	**10**	**9**	**1**	**1,094**	**203**	**--**	**462**
STAGE 4							
VLIET STREET	18	19	--	1,164	88	56	--
24TH STREET	--	--	--	94	22	--	--
21ST STREET	--	--	--	119	28	--	--
20TH STREET	--	--	--	125	34	--	--
STAGE 4 SUBTOTAL	**18**	**19**	**--**	**1,502**	**172**	**56**	**--**
PROJECT 2984-00-74 TOTAL	**28**	**28**	**1**	**2,596**	**375**	**56**	**462**

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TEMPORARY PAVEMENT MARKING

ROADWAY	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	643.3805 TEMPORARY MARKING STOP LINE PAINT 18-INCH WHITE LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF
CAT 0010						
STAGE 1A						
VLIET ST	2,130	2,375	11	280	282	--
17TH ST NB	271	224	22	878	1,060	--
STAGE 1A SUBTOTAL	**2,401**	**2,599**	**33**	**1,158**	**1,342**	**--**
STAGE 1B						
17TH ST NB	--	--	--	1,575	1,573	22
STAGE 1B SUBTOTAL	**--**	**--**	**--**	**1,575**	**1,573**	**22**
STAGE 2A						
VLIET ST	--	--	--	1,858	1,688	11
STAGE 2A SUBTOTAL	**--**	**--**	**--**	**1,858**	**1,688**	**11**
STAGE 2B						
17TH ST SB	--	--	--	1,097	1,279	22
STAGE 2B SUBTOTAL	**--**	**--**	**--**	**1,097**	**1,279**	**22**
STAGE 3						
VLIET STREET	3,092	3,567	--	126	126	11
STAGE 3 SUBTOTAL	**3,092**	**3,567**	**--**	**126**	**126**	**11**
STAGE 4						
VLIET STREET	--	--	--	3,571	3,052	11
STAGE 4 SUBTOTAL	**--**	**--**	**--**	**3,571**	**3,052**	**11**
TOTALS	**5,493**	**6,166**	**33**	**9,385**	**9,060**	**77**
PROJECT 2984-00-74 TOTALS	**11,659**		**33**	**18,445**		**77**

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CONSTRUCTION STAKING

ROADWAY	STATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500 CONSTRUCTION STAKING CONCRETE SIDEWALK EACH	650.9911 CONSTUCTION STAKING SUPPLEMENTAL CONTROL EACH
CAT 0010							
VLIET STREET	11VL+69 - 64VL+75	87	5,306	5,306	50	1	1
26TH STREET	9NSA+53 - 10NSA+53	2	68	68	4	--	--
25TH STREET	9NSB+53 - 10NSB+48	2	51	51	4	--	--
24TH PLACE	9NSC+50 - 10NSC+44	2	62	62	4	--	--
24TH STREET	9NSD+41 - 10NSD+59	2	80	80	4	--	--
22ND STREET	9NSE+49 - 10NSE+49	2	68	68	4	--	--
21ST STREET	9NSF+49 - 10NSF+49	2	68	68	4	--	--
20TH STREET	9NSG+40 - 10NSG+64	--	92	92	4	--	--
18TH STREET	9NSH+49 - 10NSH+52	2	71	71	4	--	--
17TH STREET SB	9NSI+25 - 10NSI+74	3	117	117	3	--	--
17TH STREET NB	9NSJ+25 - 10NSJ+74	2	118	118	3	--	--
15TH STREET	10NSK+16 - 10NSK+47	2	31	31	2	--	--
14TH STREET	9NSL+47 - 10NSL+48	3	69	69	4	--	--
13TH STREET	9NSM+32 - 10NSM+65	2	101	101	4	--	--
12TH LANE	9NSN+58 - 9NSN+78	--	20	20	2	--	--
PROJECT 2984-00-74 TOTAL		**113**	**6,322**	**6,322**	**100**	**1**	**1**

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 9/15/2022 2:33:53 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

SAWING ITEMS

STAGE	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	690.0250 SAWING CONCRETE LF
CAT 0010						
STAGE 1						
	VLIET ST	46VL+00	3' LT	46VL+00	32' RT	35
		46VL+00	3' LT	64VL+75	3' LT	1,935
		57VL+32	53' RT	57VL+60	53' RT	28
		58VL+26	53' RT	58VL+26	53' RT	100
		59VL+91	32' RT	60VL+91	68' RT	137
		61VL+00	68' RT	61VL+41	68' RT	41
		61VL+51	68' RT	62VL+55	68' RT	106
		63VL+20	42' RT	63VL+40	42' RT	20
		63VL+73	35' RT	64VL+75	34' RT	109
		64VL+75	3' LT	64VL+75	35' RT	38
	17TH ST SB	9NSH+25	14' RT	9NSH+25	24' LT	37
		9NSH+25	0' LT	10NSH+03	0' LT	78
	17TH ST NB	9NSJ+25	24' RT	9NSJ+26	25' LT	47
		9NSJ+25	0' LT	10NSJ+03	0' LT	78
STAGE 1 SUBTOTAL						**2,789**
STAGE 2						
	VLIET ST	56VL+42	32' LT	57VL+17	48' LT	91
		57VL+34	48' LT	57VL+60	48' LT	26
		57VL+76	48' LT	59VL+46	32' LT	187
		59VL+97	32' LT	60VL+19	32' LT	22
		61VL+04	65' LT	61VL+40	65' LT	36
		61VL+50	65' LT	64VL+75	35' LT	358
		64VL+75	3' LT	34VL+75	35' LT	35
	17TH ST SB	10NSH+03	0' LT	10NSH+74	0' LT	71
		10NSH+74	21' LT	10NSH+74	21' RT	42
	17TH ST NB	10NSJ+00	38' RT	10NSJ+32	38' RT	32
		10NSJ+03	0' LT	10NSJ+74	0' LT	71
		10NSJ+74	11' LT	10NSJ+74	21' RT	32
	15TH ST	10NSK+00	0' LT	10NSK+48	0' LT	48
		10NSK+03	37' RT	10NSK+32	37' RT	29
		10NSK+48	15' LT	10NSK+48	15' RT	30
STAGE 2 SUBTOTAL						**1,110**

SAWING ITEMS (CONT.)

STAGE	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	690.0250 SAWING CONCRETE LF
STAGE 3						
	VLIET ST	10VL+70	3' LT	10VL+70	23' RT	37
		10VL+70	3' LT	46VL+00	3' LT	3,651
		10VL+76	32' RT	11VL+61	32' RT	85
		14VL+40	47' RT	16VL+55	47' RT	246
		16VL+69	47' RT	17VL+01	47' RT	32
	VLIET ST	18VL+49	32' RT	18VL+79	32' RT	30
		19VL+86	50' RT	20VL+17	50' RT	31
		20VL+29	50' RT	20VL+91	35' RT	79
		21VL+22	34' RT	21VL+55	34' RT	33
		22VL+12	33' RT	22VL+41	33' RT	29
		23VL+16	59' RT	23VL+48	59' RT	37
		29VL+99	51' RT	30VL+32	51' RT	33
		33VL+33	51' RT	33VL+66	51' RT	33
		36VL+59	60' RT	36VL+98	60' RT	39
		43VL+21	51' RT	43VL+56	51' RT	35
STAGE 3 SUBTOTAL						**4,430**
STAGE 4						
	VLIET ST	10VL+70	0' LT	10VL+70	26' LT	23
		10VL+79	32' LT	11VL+96	32' LT	117
		12VL+96	32' LT	13VL+74	33' LT	79
		13VL+92	53' LT	14VL+22	53' LT	30
		14VL+47	33' LT	14VL+93	33' LT	46
		15VL+80	32' LT	16VL+55	48' LT	91
		16VL+69	48' LT	17VL+02	48' LT	33
		19VL+84	44' LT	20VL+06	44' LT	22
		23VL+16	59' LT	23VL+48	59' LT	32
		30VL+01	49' LT	30VL+29	49' LT	28
		33VL+35	49' LT	33VL+63	49' LT	28
		36VL+62	49' LT	36VL+96	49' LT	34
		43VL+25	53' LT	43VL+54	51' LT	30
STAGE 4 SUBTOTAL						**593**
PROJECT 2984-00-74 TOTAL						**8,922**

WATER MAIN PROTECTION

ROADWAY	SPV.0060.008 WATER MAIN PROTECTION EACH	NOTES
CAT 0010		
STAGE 3 SUBTOTAL		
21ST STREET	1	SW QUADRANT
STAGE 3 SUBTOTAL	**1**	
PROJECT 2984-00-74 TOTAL	**1**	

TEMPORARY BUS LOADING ZONE

ROADWAY	SPV.0060.005 TEMPORARY BUS LOADING ZONE EACH
CAT 0010	
STAGE 1	
17TH STREET	2
STAGE 1 SUBTOTAL	**2**
STAGE 2	
17TH STREET	2
STAGE 2 SUBTOTAL	**2**
PROJECT 2984-00-74 TOTAL	**4**

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 9/15/2022 2:33:53 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

UTILITY LINE OPENING (ULO)

ROADWAY	SPV.0060.007 UTILITY LINE OPENING (ULO) EACH
CAT 0010	
13TH STREET	4
17TH STREET	4
20TH STREET	4
24TH STREET	4
PROJECT 2984-00-74 TOTAL	**16**

MANAGEMENT OF HAZARDOUS SOLID WASTE

ROADWAY	STATION-STATION	OFFSET	SPV.0195.001 TON	COMMENT
CAT 0010				
VLIET ST	16VL+50 - 18VL+00	5' LT - 65' RT	807	1' - 12' BELOW GRADE
	46VL+40 - 47VL+50	0' - 72' RT	440	1' - 6' BELOW GRADE
PROJECT 2984-00-74 TOTAL			**1,247**	

NON-PARTICIPATING ITEMS

ROADWAY	SPV.0060.001 INTERNAL SANITARY MANHOLE SEALS EACH	SPV.0060.002 ADJUSTING WATER BOX EACH	SPV.0060.006 INSTALLING CITY-FURNISHED BIKE RACK EACH	SPV.0180.001 JOINT SEALING SY
CAT 0020				
VLIET STREET	8	1	10	26,915
PROJECT 2984-00-74 TOTAL	**8**	**1**	**10**	**26,915**

TREES

STREET	CAT 10 632.0101.001 SHAGBARK HICKORY 3" B&B EACH	CAT 10 632.0101.002 COMMON BALD-CYPRESS 3" B&B EACH	CAT 10 632.0101.003 SHADEMASTER HONEY-LOCUST 3" B&B EACH	CAT 10 632.0101.004 AMERICAN HORNBEAM 3" B&B EACH	CAT 10 632.0101.005 CALLERY PEAR 3" B&B EACH	CAT 10 632.0101.006. AUTUMN BLAZE MAPLE 3.5" B&B EACH	CAT 10 632.0101.007 SUNBURST HONEY-LOCUST 3" B&B EACH	CAT 10 632.0101.008 ACCOLADE ELM 3" B&B EACH
VLIET STREET	3	3	5	6	5	6	3	4

STREET	CAT 10 632.0101.009 AMERICAN SWEETGUM CHEROKEE 3" B&B EACH	CAT 10 632.0101.010 AMERICAN SWEETGUM MORAINE 3" B&B EACH	CAT 10 632.0101.011 TULIP TREE 3" B&B EACH	CAT 10 632.0101.012 NORTHERN RED OAK 3" B&B EACH	CAT 10 632.0101.013 CUMULUS SERVICE-BERRY 3" B&B EACH	CAT 10 632.0101.014 KENTUCKY COFFEE TREE 3" B&B EACH	CAT 10 632.0101.015 BUTTERNUT 3" B&B EACH	CAT 10 632.0101.016 IRONWOOD 3" B&B EACH
VLIET STREET	3	3	6	3	3	3	2	3

SURVEILLANCE AND CARE CYCLES

LOCATION	CAT 10 632.9101 PLANTING SURVEILLANCE & CARE CYCLES EACH
VLIET STREET	10

3

TREE PLANTING CHART

COMMON NAME	SCIENTIFIC NAME	SIZE PLANTED	ROOT ZONE MODE	HEIGHT	BALL (MIN. SIZE) DIA.	BALL (MIN. SIZE) DEPTH	HOLE (MIN. SIZE) DIA.	HOLE (MIN. SIZE) DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTION REQ'D	MULCH RING DIAMETER	REMARKS
SHAGBARK HICKORY	CARY OVATA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
COMMON BALDCYPRESS	TAXODIUM DISTICHUM	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
CALLERY PEAR	PYRUS CALLERANA CLEVELAND SELECT	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
AUTUMN BLAZE MAPLE	ACER FREEMANII AUTUMN BLAZE	3.5" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
SUNBURST HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
ACCOLADE ELM	ULMUS CARPINFOLIA ACCOLADE	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
AMERICAN SWEETGUM CHEROKEE	LIQUIDDAMBAR STYRACIFLUA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
AMERICAN SWEETGUM MORAINE	LIQUIDDAMBAR STYRACIFLUA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
TULIP TREE	LIRODENDRON TULIPFERA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
NORTHERN RED OAK	QUERCUS RUBRA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
CUMULUS SERVICE BERRY	AMELANCHIER ARBOREA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
BUTTERNUT	JUGLANS CINERA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
IRONWOOD	OSTRYA VIRGINIANA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY

STREET LIGHTING ITEMS

ROADWAY	650.8501 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2984-00-74) EACH	652.0615 CONDUIT SPECIAL 3-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0305* CABLE TYPE UF 2#12 AWG GROUDNED LF	652.0335* CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH LF	674.0300 REMOVE CABLE LF	SPV.0060.302 PULL BOXES 13-INCH X 24-INCH X 24-INCH EACH	SPV.0060.310 REMOVE POLES EACH	SPV.0060.312 INSTALL POLES (A26 GRAY CONCRETE, DIRECT BURY) EACH	SPV.0060.317 INSTALL H17 CONCRETE POLE INCLUDES RISER CABLE EACH	SPV.0060.343 WATER TIGHT SPLICES & CONNECTIONS EACH	SPV.0060.345 LUMINAIRE ARM SINGLE MEMBER 6-FT. EACH
CAT 0010												
VLIET ST	1	1,350	12,900	3,400	2,500	200	130	57	43	3	220	54
PROJECT 2984-00-74 TOTAL	**1**	**1,350**	**12,900**	**3,400**	**2,500**	**200**	**130**	**57**	**43**	**3**	**220**	**54**

*** ADDITIONAL QUANTITES SHOWN ELSEWHERE**

STREET LIGHTING ITEMS (CONTINUED)

SPV.0060.376 LUMINAIRE UTILITY 3LED EACH	SPV.0060.864 LUMINAIRE HISTORIC MILWAUKEE HARP LED 0 (38W/240V TYPE IV BLACK MILWAUKEE LED HARP) EACH	SPV.0060.387 REMOVE LUMINAIRE COMPLETE EACH	SPV.0060.355 INSTALL A21-A26 MOUNTING CLAMP (SINGLE BRACKET) EACH	SPV.0090.314 REMOVE AERIAL CABLE LF	SPV.0090.319 LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT 1 1/2-INCH LF	SPV.0090.322 ELECTRICAL CABLE 3#6/1#8 XLPE LF	SPV.0090.324 ELECTRICAL CABLE 3#2/1#8 XLPE LF
82	3	32	54	9,410	2,250	1,500	12,000
82	**3**	**32**	**54**	**9,410**	**2,250**	**1,500**	**12,000**

3

657.0100 PEDESTAL BASES
657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
657.0525 MONOTUBE ARM 25-FT
658.0500 PEDESTRIAN PUSH BUTTONS
SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
SPV.0060.223 EVP CONFIRMATION LIGHT
SPV.0060.228 ELECTRICAL RISER
SPV.0060.274 POLES TYPE 10 MODIFIED 26 FT

SIG. BASE NO.	PED. BASE EACH	13 FOOT STAND. EACH	25' ARM EACH	PUSH BUTTON EACH	EVP 1 DIRECTION DETECTOR EACH	EVP CONF. LIGHT EACH	ELEC-TRICAL RISER EACH	POLES TYPE 10 MODIFIED 26' EACH
1			1	1	1	1		1
2	1	1						
3							1	
4	1	1		1				
5			1	1	1	1		1
6	1	1						
7							1	
8	1	1		1				
SUBTOTAL	4	4	2	4	2	2	2	2

658.5070 SIGNAL MOUNTING HARDWARE (24TH)

	SIGNAL MOUNTING HARDWARE EACH
SUBTOTAL	1

SPV.0060.226 VEHICULAR MICROWAVE DETECTION SYSTEM

	VEHICULAR MICROWAVE DETECTION SYSTEM EACH
SUBTOTAL	1

658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH

3

SIG HEAD NO.	SIG BASE NO.	SIG. FACE 3S 12-INCH	PED FACE EACH	COUNT-DOWN FACE EACH
1	SB2	1		
2	SB6	1		
3	SB7	1		
4	SB6	1		
5	SB2	1		
6	SB3	1		
7	SB4	1		
8	SB8	1		
9	SB1	1		
10	SB8	1		
11	SB4	1		
12	SB5	1		
13	SB5		1	1
14	SB8		1	1
15	SB7		1	1
16	SB2		1	1
17	SB1		1	1
18	SB4		1	1
19	SB3		1	1
20	SB6		1	1
SUBTOTAL		12	8	8

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 24TH ST.

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH
652.0235 CONDUIT RIGID NONMETALLIC SHCEDULE 40 3 INCH
652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH

LOC.	TO	LOC.	SCH. 40 2 INCH	SCH. 40 3 INCH	SCH. 80 3 INCH	
CB1	TO	PB1			15	
PB1	TO	SB1			10	
PB1	TO	PB2			40	
PB2	TO	SB2		15		
PB2	TO	PB3				105
PB3	TO	SB3		20		
PB3	TO	SB4		10		
PB3	TO	PB4				115
PB4	TO	SB5			15	
PB4	TO	SB6		15		
PB4	TO	PB5				90
PB5	TO	SB7		15		
PB5	TO	SB8		15		
PB5	TO	PB1				110
		SUBTOTAL	90		80	420

SUMMARY OF MAJOR ITEMS FOR TRAFFIC SIGNAL CABLING

ITEM	DESCRIPITON	L.F
655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	430
655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	200
655.0270	CABLE TRAFFIC SIGNAL 15-14-AWG	540
655.0305*	CABLE TYPE UF 2-12 AWG GROUNDED	270
655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	440
655.0900	TRAFFIC SIGNAL EVP DETECTOR CABLE	270
SPV.0090.201	INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT CONTRACTOR SUPPLIED	5910

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SPV.0060.303 PULLBOXES
17-INCHX30-INCHX24-INCH

PULL BOX NO.	LOCATION	17"X30"X24" EACH
1	23+70', 21' RT	1
2	23+54',26' RT	1
3	23+02',27'RT	1
4	23+13', 31'LT	1
5	23+53', 30' LT	1
	SUBTOTAL	6

204.0195 REMOVING CONCRETE BASES

SIGNAL BASE NO.	LOCATION	EACH
SB2	23+52', 36' RT	1
SB4	23+00', 26' RT	1
SB6	23+12', 36' LT	1
SB8	23+64', 26' LT	1
	SUBTOTAL	8

654.0101 CONCRETE BASES TYPE 1
654.0110 CONCRETE BASES TYPE 10

SIGNAL BASE NO.	LOCATION	TYPE1 EACH	TYPE 10 EACH
1	23+64', 26' RT		1
2	23+53', 40' RT	1	
4	22+96', 27' RT	1	
5	22+96', 27' LT		1
6	23+13', 44' LT	1	
8	23+67', 27' LT	1	
	SUBTOTAL	4	2

SPV.0060.201 INSTALL CITY PRECAST CONTROLLER BASE
SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED
SPV.0060.212 FIBER OPTIC PATCH PANEL
SPV.0060.213 ETHERNET SWITCH
SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL

LOCATION	BASE EACH	CABINET EACH	PANEL EACH	SWITCH EACH	EVP CARD EACH
23+78', 22' RT	1	1	1	1	1
SUBTOTAL	1	1	1	1	1

* FINAL LOCATION TO BE DETERMINED BY ENGINEER IN FIELD

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 20TH ST.

657.0100 PEDESTAL BASES
657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
657.0520 MONOTUBE ARM 20-FT
657.0525 MONOTUBE ARM 25-FT
SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
SPV.0060.223 EVP CONFIRMATION LIGHT
SPV.0060.274 POLES TYPE 10 MODIFIED 26 FT

SIG. BASE NO.	PED. BASE EACH	13 FOOT STAND. EACH	20' ARM EACH	25' ARM EACH	EVP 1 DIRECTION DETECTOR EACH	EVP CONF. LIGHT EACH	POLES TYPE 10 MODIFIED 26' EACH
1				1	1	1	1
2	1	1					
3			1		1	1	1
4	1	1					
5				1	1	1	1
6	1	1					
7			1		1	1	1
8	1	1					
SUBTOTAL	4	4	2	2	4	4	4

658.5070 SIGNAL MOUNTING HARDWARE (20TH)

	SIGNAL MOUNTING HARDWARE EACH
SUBTOTAL	1

658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH

SIG HEAD NO.	SIG BASE NO.	SIG. FACE 3S 12-INCH	PED FACE EACH	COUNT-DOWN FACE EACH
1	SB2	1		
2	SB6	1		
3	SB7	1		
4	SB6	1		
5	SB2	1		
6	SB3	1		
7	SB4	1		
8	SB8	1		
9	SB1	1		
10	SB8	1		
11	SB4	1		
12	SB5	1		
13	SB5		1	1
14	SB8		1	1
15	SB7		1	1
16	SB2		1	1
17	SB1		1	1
18	SB4		1	1
19	SB3		1	1
20	SB6		1	1
SUBTOTAL		12	8	8

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 20TH ST.

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH
652.0235 CONDUIT RIGID NONMETALLIC SHCEDULE 40 3 INCH
652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH

LOC.	TO	LOC.	SCH. 40 2 INCH	SCH. 40 3 INCH	SCH. 80 3 INCH
CB1	TO	PB1		10	
PB1	TO	SB1		5	
PB1	TO	PB2		30	
PB2	TO	SB2	15		
PB2	TO	PB3			95
PB3	TO	SB3		20	
PB3	TO	SB4	15		
PB3	TO	PB4			110
PB4	TO	SB5		5	
PB4	TO	SB6	25		
PB4	TO	PB5			120
PB5	TO	SB7		15	
PB5	TO	SB8	15		
PB5	TO	PB1			110
		SUBTOTAL	70	85	435

SUMMARY OF MAJOR ITEMS FOR TRAFFIC SIGNAL CABLING

ITEM	DESCRIPITON	L.F
655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	530
655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	340
655.0270	CABLE TRAFFIC SIGNAL 15-14-AWG	380
655.0305*	CABLE TYPE UF 2-12 AWG GROUNDED	500
655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	400
655.0900	TRAFFIC SIGNAL EVP DETECTOR CABLE	500

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SPV.0060.303 PULLBOXES
17-INCHX30-INCHX24-INCH

PULL BOX NO.	LOCATION	17"X30"X24" EACH
1	37+15', 22' RT	1
2	37+02', 28' RT	1
3	36+58', 28' RT	1
4	36+42', 25' LT	1
5	37+01', 28' LT	1
	SUBTOTAL	5

204.0195 REMOVING CONCRETE BASES

SIGNAL BASE NO.	LOCATION	EACH
SB2	37+00', 36' RT	1
SB4	36+47',27' RT	1
SB6	36+57', 34' LT	1
SB8	37+10', 26' LT	1
	SUBTOTAL	4

654.0101 CONCRETE BASES TYPE 1
654.0110 CONCRETE BASES TYPE 10

SIGNAL BASE NO.	LOCATION	TYPE1 EACH	TYPE 10 EACH
1	37+12', 25' RT		1
2	37+01', 37' RT	1	
3	36+55', 44' RT		1
4	36+44', 26' RT	1	
5	36+40', 23' LT		1
6	36+57', 40' LT	1	
7	37+00', 40' LT		1
8	37+14', 27' LT	1	
	SUBTOTAL	4	4

SPV.0060.201 INSTALL CITY PRECAST CONTROLLER BASE
SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED
SPV.0060.212 FIBER OPTIC PATCH PANEL
SPV.0060.213 ETHERNET SWITCH
SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL

LOCATION	BASE EACH	CABINET EACH	PANEL EACH	SWITCH EACH	EVP CARD EACH
37+22', 21' RT	1	1	1	1	1
SUBTOTAL	1	1	1	1	1

* FINAL LOCATION TO BE DETERMINED BY ENGINEER IN FIELD

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 17TH ST.

657.0100 PEDESTAL BASES
657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
657.0525 MONOTUBE ARM 25'
657.0536 MONOTUBE ARM 35'-SPECIAL
657.0541 MONOTUBE ARM 40'-SPECIAL
SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
SPV.0060.223 EVP CONFIRMATION LIGHT
SPV.0060.228 ELECTRICAL RISER
657.0347 POLES TYPE 9-SPECIAL
SPV.0060.274 POLES TYPE 10 MODIFIED 26 FT

SIG. BASE NO.	PED. BASE EACH	13 FOOT STAND. EACH	25' ARM EACH	35' ARM SPECIAL EACH	40' ARM SPECIAL EACH	EVP 1 DIRECTION DETECTOR EACH	EVP CONF. LIGHT EACH	ELEC-TRICAL RISER EACH	POLES TYPE 9 SPECIAL EACH	POLES TYPE 10 MODIFIED 26' EACH
1					1	1	1		1	
2	1	1								
3			1			1	1			1
4	1	1								
5								1		
6				1		1	1		1	
7	1	1								
8			1			1	1			1
9	1	1								
10								1		
SUBTOTAL	4	4	2	1	1	4	4	2	2	2

658.5070 SIGNAL MOUNTING HARDWARE (17TH)

	SIGNAL MOUNTING HARDWARE EACH
SUBTOTAL	1

658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH

SIG HEAD NO.	SIG BASE NO.	SIG. FACE 3S 12-INCH	PED FACE EACH	COUNT DOWN FACE EACH
1	SB4	1		
2	SB1	1		
3	SB1	1		
4	SB5	1		
5	SB10	1		
6	SB9	1		
7	SB6	1		
8	SB6	1		
9	SB10	1		
10	SB5	1		
11	SB7	1		
12	SB2	1		
13	SB3	1		
14	SB2	1		
15	SB7	1		
16	SB8	1		
17	SB8		1	1
18	SB2		1	1
19	SB1		1	1
20	SB4		1	1
21	SB3		1	1
22	SB7		1	1
23	SB6		1	1
24	SB9		1	1
SUBTOTAL		16	8	8

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 17TH ST.

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH
652.0235 CONDUIT RIGID NONMETALLIC SHCEDULE 40 3 INCH
652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH

LOC.	TO	LOC.	SCH. 40 2 INCH	SCH. 40 3 INCH	SCH. 80 3 INCH
PB1	TO	SB1		5	
CB1	TO	PB1		25	
PB1	TO	SB2	22		
PB1	TO	PB2			140
PB2	TO	SB3		15	
PB2	TO	SB4	9		
PB2	TO	PB3			125
PB3	TO	SB5	4		
PB3	TO	PB4			105
PB4	TO	SB6		10	
PB4	TO	SB7	17		
PB4	TO	PB5			120
PB5	TO	SB8		10	
PB5	TO	PB6		45	
PB6	TO	SB9	4		
PB6	TO	PB7			120
PB7	TO	SB10	4		
PB7	TO	PB1			105
		TOTAL	60	110	715

SUMMARY OF MAJOR ITEMS FOR TRAFFIC SIGNAL CABLING

ITEM	DESCRIPITON	L.F
655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	680
655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	525
655.0270	CABLE TRAFFIC SIGNAL 15-14-AWG	790
655.0305*	CABLE TYPE UF 2-12 AWG GROUNDED	685
655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	600
655.0900	TRAFFIC SIGNAL EVP DETECTOR CABLE	685

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SPV.0060.303 PULLBOXES 17-INCHX30-INCHX24-INCH

PULL BOX NO.	LOCATION	17"X30"X24" EACH
1	47+56',36' LT	1
2	47+61', 34' RT	1
3	46+98', 35' RT	1
4	46+46',34' RT	1
5	46+35', 22' LT	1
6	46+46', 39' LT	1
7	47+04', 35' LT	1
	SUBTOTAL	7

204.0195 REMOVING CONCRETE BASES

SIGNAL BASE NO.	LOCATION	EACH
1	47+59', 36' LT	1
2	47+72', 26' LT	1
4	47+55',25' RT	1
6	46+47', 36' RT	1
7	46+37', 26' RT	1
9	46+49', 38' LT	1
	SUBTOTAL	6

* FINAL LOCATION TO BE DETERMINED BY ENGINEER IN FIELD

654.0101 CONCRETE BASES TYPE 1
654.0110 CONCRETE BASES TYPE 10
654.0120 CONCRETE BASES TYPE 10 SPECIAL

SIGNAL BASE NO.	LOCATION	TYPE1 EACH	TYPE 10 EACH	TYPE 10 SPECIAL EACH
1	47+58', 42' LT			1
2	47+74',26' LT	1		
3	47+70', 26' RT		1	
4	47+55', 41' RT	1		
6	46+45', 43' RT			1
7	46+33', 27' RT	1		
8	46+31', 24' LT		1	
9	46+47', 35' LT	1		
	SUBTOTAL	4	2	2

SPV.0060.201 INSTALL CITY PRECAST CONTROLLER BASE
SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED
SPV.0060.212 FIBER OPTIC PATCH PANEL
SPV.0060.213 ETHERNET SWITCH
SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL

LOCATION	BASE EACH	CABINET EACH	PANEL EACH	SWITCH EACH	EVP CARD EACH
47+57', 48' LT	1	1	1	1	1
SUBTOTAL	1	1	1	1	1

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 13TH ST.

657.0100 PEDESTAL BASES
657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
658.0500 PEDESTRIAN PUSH BUTTONS
657.0525 MONOTUBE ARMS 25-FT
SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
SPV.0060.223 EVP CONFIRMATION LIGHT
SPV.0060.226 VEHICULAR MICROWAVE DETECTOR
SPV.0060.228 ELECTRICAL RISER
SPV.0060.274 POLES TYPE 10 MODIFIED 26 FT

SIG. BASE NO.	PED. BASE EACH	13 FOOT STAND. EACH	25' ARM EACH	PUSH BUTTON EACH	EVP 1 DIRECTION DETECTOR EACH	EVP CONF. LIGHT EACH	ELECTRICAL RISER EACH	POLES TYPE 10 MODIFIED 26' EACH
1							1	
2	1	1		1				
3			1	1	1	1		1
4	1	1						
5							1	
6	1	1		1				
7			1	1	1	1		1
8	1	1						
SUBTOTAL	4	4	2	4	2	2	2	2

658.5070 SIGNAL MOUNTING HARDWARE (13TH)

	SIGNAL MOUNTING HARDWARE EACH
SUBTOTAL	1

SPV.0060.226 VEHICULAR MICROWAVE DETECTION SYSTEM

	VEHICULAR MICROWAVE DETECTION SYSTEM EACH
SUBTOTAL	1

658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH

SIG HEAD NO.	SIG BASE NO.	SIG. FACE 3S 12-INCH	PED. FACE EACH	COUNT-DOWN FACE EACH
1	SB8	1		
2	SB4	1		
3	SB5	1		
4	SB4	1		
5	SB8	1		
6	SB1	1		
7	SB2	1		
8	SB6	1		
9	SB7	1		
10	SB6	1		
11	SB2	1		
12	SB3	1		
13	SB3		1	1
14	SB6		1	1
15	SB5		1	1
16	SB8		1	1
17	SB7		1	1
18	SB2		1	1
19	SB1		1	1
20	SB4		1	1
SUBTOTAL		12	8	8

All Items on this page are Category 0010

TRAFFIC SIGNALS & INTERSECTION LIGHTING W. VLIET ST. & N. 13TH ST.

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH
652.0235 CONDUIT RIGID NONMETALLIC SHCEDULE 40 3 INCH
652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH

LOC.	TO	LOC.	SCH. 40 2 INCH	SCH. 40 3 INCH	SCH. 80 3 INCH
CB1	TO	PB1		15	
PB1	TO	SB1	5		
PB1	TO	SB2	25		
PB1	TO	PB2			125
PB2	TO	SB3		15	
PB2	TO	PB3		20	
PB3	TO	SB4	5		
PB3	TO	PB4			90
PB4	TO	SB5	10		
PB4	TO	SB6	25		
PB4	TO	PB5			140
PB5	TO	SB7		20	
PB5	TO	SB8	10		
PB5	TO	PB1			90
		SUBTOTAL	80	70	445

SUMMARY OF MAJOR ITEMS FOR TRAFFIC SIGNAL CABLING

ITEM	DESCRIPITON	L.F
655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	430
655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	370
655.0270	CABLE TRAFFIC SIGNAL 15-14-AWG	380
655.0305*	CABLE TYPE UF 2-12 AWG GROUNDED	260
655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	450
655.0900	TRAFFIC SIGNAL EVP DETECTOR CABLE	260

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SPV.0060.303 PULLBOXES
17-INCHX30-INCHX24-INCH

PULL BOX NO.	LOCATION	17"X30"X24" EACH
1	60+98',35' RT	1
2	60+94',26' LT	1
3	60+98',36' LT	1
4	61+43', 34' LT	1
5	61+44', 35' RT	1
	SUBTOTAL	5

204.0195 REMOVING CONCRETE BASES

SIGNAL BASE NO.	LOCATION	EACH
SB2	60+88.5', 25.9	1
SB4	60+99.1', 35.5	1
SB5	61+43.4', 35.3	1
SB6	61+51.4', 26.5	1
SB7	61+51.4', 25.8	1
SB8	61+44.2', 34.3	1
	SUBTOTAL	6

654.0101 CONCRETE BASES TYPE 1
654.0110 CONCRETE BASES TYPE 10

SIGNAL BASE NO.	LOCATION	TYPE1 EACH	TYPE 10 EACH
2	60+78', 26' RT	1	
3	60+81', 26' LT		1
4	60+97', 40' LT	1	
6	61+62', 27' LT	1	
7	61+60', 26' RT		1
8	61+43', 40' RT	1	
	SUBTOTAL	4	2

SPV.0060.201 INSTALL CITY PRECAST CONTROLLER BASE
SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED
SPV.0060.212 FIBER OPTIC PATCH PANEL
SPV.0060.213 ETHERNET SWITCH
SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL

LOCATION	BASE EACH	CABINE EACH	PANEL EACH	SWITCH EACH	EVP CARD EACH
61+01', 45' RT	1	1	1	1	1
SUBTOTAL	1	1	1	1	1

* FINAL LOCATION TO BE DETERMINED BY ENGINEER IN FIELD

All Items on this page are Category 0010

TRAFFIC SIGNALS TOTALS

204.0195 REMOVING CONCRETE BASES	654.0101 CONCRETE BASES TYPE 1	654.0110 CONCRETE BASES TYPE 10	657.0100 PEDESTAL BASES	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT	657.0520 MONOTUBE ARMS 20-FT	657.0525 MONOTUBE ARMS 25-FT	657.0536 MONOTUBE ARMS SPECIAL 35-FT	657.0541 MONOTUBE ARMS SPECIAL 40-FT	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH	658.0500 PEDESTRIAN PUSH BUTTONS	658.5070 SIGNAL MOUNTING HARDWARE
EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
24	16	10	16	16	2	8	1	1	52	32	8	4

SPV.0060.201 INSTALL CITY PRECAST CONTROLLER BASE	654.0120 CONCRETE BASES TYPE 10 SPECIAL	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED	SPV.0060.212 FIBER OPTIC PATCH PANEL	SPV.0060.213 ETHERNET SWITCH	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL	SPV.0060.223 EVP CONFIRMATION LIGHT	SPV.0060.226 VEHICULAR MICROWAVE DETECTION SYSTEM	SPV.0060.228 ELECTRICAL RISER	657.0347 POLES TYPE 9 SPECIAL	SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH	SPV.0060.274 POLES TYPE 10 MODIFIED 26 FT	SPV.0060.303 PULLBOXES 17"X30"X24"
EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
4	2	4	4	4	12	4	12	2	6	2	32	10	23

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0335* CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE	SPV.0090.201 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT CONTRACTOR SUPPLIED
LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
300	345	2015	2070	1435	2090	1715	1890	1715	5910

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

All Items on this page are Category 0010

CITY UNDERGROUND CONDUIT

LOCATION	CAT 10 REMOVING MANHOLES 204.0210 EACH	CAT 10 ABANDON MANHOLES 204.0250 EACH	CAT 10 ADJUSTING CUC MANHOLE COVERS SPV.0060.400 EACH	CAT 10 4' DIAMETER MANHOLE TYPE CUC SPV.0060.401 EACH	CAT 10 INSTALLING CONDUIT INTO EXISTING MANHOLE SPV.0060.425 EACH	CAT 10 SAWING CONCRETE ENCASED DUCT PACKAGE SPV.0060.426 EACH	CAT 10 1-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.401 LF	CAT 10 2-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.402 LF	CAT 10 3-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.403 LF	CAT 10 4-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.404 LF	CAT 10 6-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.406 LF	CAT 10 7-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.407 LF	CAT 10 8-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.408 LF
MANHOLE 601 @ STA 10 + 71.3, 16.3 RT			1 NEW COVER		1								
MANHOLE 601 TO MANHOLE 602											316		
MANHOLE 602 @ STA 13 + 91.5, 5.5 RT			1	1									
MANHOLE 602 TO MANHOLE 605											166		
MANHOLE 603A @ STA 14 + 18.9, 16.7 RT		1											
STA 15 + 16.0, 5.5 RT TO BUILDING							35						
STA 15 + 16.0, 5.5 RT TO MANHOLE 605												134	
MANHOLE 604A @ STA 16 + 96.5, 18.3 RT		1											
MANHOLE 605 @ STA 16 + 95.1, 5.5 RT			1	1									
MANHOLE 605 TO NORTH PAVING LIMITS						1		51					
MANHOLE 605 TO SOUTH PAVING LIMITS						1		39					
MANHOLE 605 TO MANHOLE 607											626		
MANHOLE 606A @ STA 20 + 06.5, 15.9 RT		1											
MANHOLE 607 @ STA 23 + 26.4, 5.5 RT			1	1									
MANHOLE 607 TO NORTH PAVING LIMITS								62					
MANHOLE 607 TO POLICE CALL BOX								51					
MANHOLE 607 TO STA 23 + 73.1, 5.5 RT													45
MANHOLE 608A @ STA 23 + 51.5, 16.6 RT		1											
STA 23 + 73.1, 5.5 RT TO TRAFFIC CABINET								19					
STA 23 + 73.1, 5.5 RT TO MANHOLE 609											364		
MANHOLE 609 @ STA 26 + 92.2, 5.5 RT			1	1									
MANHOLE 609 TO NORTH ROW LINE						1		36					
MANHOLE 609 TO SOUTH ROW LINE						1		24					
MANHOLE 610A @ STA 26 + 92.1, 16.7 RT		1											
MANHOLE 609 TO MANHOLE 611											307		
MANHOLE 611 @ STA 30 + 03.5, 5.5 RT			1	1									
MANHOLE 611 TO EXISTING CALL BOX								38					
MANHOLE 612A @ STA 30 + 03.3, 15.9 RT		1											
MANHOLE 611 TO MANHOLE 614											363		
MANHOLE 613A @ STA 33 + 56.6, 15.9 RT		1											
MANHOLE 614 @ STA 33 + 70.6, 5.5 RT			1	1									
MANHOLE 614 TO MANHOLE 615											297		
MANHOLE 615 @ STA 36 + 72.0, 5.5 RT			1	1									
MANHOLE 615 TO SOUTH PAVING LIMITS									52				
MANHOLE 615 TO MANHOLE 617									37				
MANHOLE 615 TO STA 37 + 16.8, 5.5 RT													43
MANHOLE 616R @ STA 36 + 75.4, 35.5 LT	1												
MANHOLE 617 @ STA 36 + 75.4, 35.5 LT			1	1									
MANHOLE 617 TO EAST CURB								18					
MANHOLE 617 TO WEST CURB								16					

CITY UNDERGROUND CONDUIT (CONT.)

LOCATION	CAT 10 REMOVING MANHOLES 204.0210 EACH	CAT 10 ABANDONDING MANHOLES 204.0250 EACH	CAT 10 ADJUSTING CUC MANHOLE COVERS SPV.0060.400 EACH	CAT 10 4' DIAMETER MANHOLE TYPE CUC SPV.0060.401 EACH	CAT 10 INSTALLING CONDUIT INTO EXISTING MANHOLE SPV.0060.425 EACH	CAT 10 SAWING CONCRETE ENCASED DUCT PACKAGE SPV.0060.426 EACH	CAT 10 1-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.401 LF	CAT 10 2-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.402 LF	CAT 10 3-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.403 LF	CAT 10 4-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.404 LF	CAT 10 6-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.406 LF	CAT 10 7-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.407 LF	CAT 10 8-DUCT CONDUIT CEMENT ENCASED DB-60 SPV.0090.408 LF
MANHOLE 618A @ STA 36 + 84.2, 14.9 RT		1											
STA 37 + 16.8, 5.5 RT TO TRAFFIC CABINET								19					
STA 37 + 16.8, 5.5 RT TO MANHOLE 620											312		
MANHOLE 619A @ STA 40 + 20.7, 15.3 RT		1											
MANHOLE 620 @ STA 40 + 31.1, 5.5 LT			1	1									
MANHOLE 620 TO POLICE CALL BOX								35					
MANHOLE 620 TO MANHOLE 621											317		
MANHOLE 621R @ STA 43 + 49.4, 15.1 RT	1												
MANHOLE 622 @ STA 43 + 51.7, 12.5 RT			1	1									
MANHOLE 622 TO MANHOLE 626											330		
MANHOLE 623A @ STA 46 + 72.5, 15.3 RT		1											
MANHOLE 624 @ STA 46 + 81.7, 47.8 LT			1 NEW COVER		1								
MANHOLE 624 TO MANHOLE 626								56					
MANHOLE 624 TO TRAFFIC CABINET								74					
MANHOLE 625 @ STA 46 + 82.2, 43.0 RT			1 NEW COVER		1								
MANHOLE 625 TO MANHOLE 626								27					
MANHOLE 626 @ STA 46 + 86.1, 12.5 RT			1	1									
MANHOLE 626 TO MANHOLE 628											331		
MANHOLE 627A @ STA 50 + 08.9, 15.2 RT		1											
MANHOLE 628 @ STA 50 + 20.8, 12.5 RT			1	1									
MANHOLE 628 TO POLICE CALL BOX								41					
MANHOLE 628 TO MANHOLE 630											356		
MANHOLE 629A @ STA 53 + 82.3, 15.5 RT		1											
MANHOLE 630 @ STA 53 + 89.0, 12.5 RT			1	1									
MANHOLE 630 TO SOUTH CURB								5					
MANHOLE 630 TO MANHOLE 631											364		
MANHOLE 631 @ STA 57 + 57.3, 12.5 RT			1	1									
MANHOLE 631 TO SOUTH PAVING LIMITS						1				38			
MANHOLE 631 TO MANHOLE 633											361		
MANHOLE 632R @ STA 57 + 57.3, 14.5 RT	1												
MANHOLE 633 @ STA 61 + 21.7, 12.5 RT			1	1									
MANHOLE 633 TO TRAFFIC CABINET								38					
MANHOLE 633 TO MANHOLE 634										71			
MANHOLE 634 @ STA 61 + 35.1, 60.1 RT													
MANHOLE 634 TO NORTH PAVING LIMITS						1			2				
MANHOLE 634 TO CURB								7					
MANHOLE 633 TO MANHOLE 638											398		
MANHOLE 638 @ STA 65 + 24.1, 11.6 RT					1								
PROJECT TOTAL	3	12	18	15	4	6	35	656	2	198	5208	134	88

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM1	10VL+59	39' RT	SE QUAD 27TH STREET, NE BOLT TRAFFIC SIGNAL	93.66

N. 27TH STREET

N. 26TH STREET

BEGIN PROJECT 2984-00-74
STA. 10VL+69.11
X = 2548603.206
Y = 388941.413

R/L W. VLIET STREET

W. VLIET STREET

11VL 12VL 13VL 14VL

TBM1

CITY OF MILWAUKEE COMMUNICATIONS

EXISTING R/W

WE ENERGIES - ELECTRIC

SLOPE INTERCEPTS (TYP.)

CITY OF MILWAUKEE TRAFFIC & LIGHTING CONDUIT

PETROLEUM-CONTAMINATED SOIL
STA 13VL+80 - STA 14VL+15
3 - 7 FEET BELOW GRADE

R/L 26TH STREET

CITY OF MILWAUKEE SEWERS

CITY OF MILWAUKEE CONDUIT

WE ENERGIES - GAS

MILWAUKEE WATER WORKS

SLOPE INTERCEPTS (TYP.)

EXISTING R/W

PETROLEUM-CONTAMINATED SOIL
STA 14VL+05 - STA 14VL+50
1 - 10 FEET BELOW GRADE

MATCHLINE 15VL+00

BUS STOP

CAUTION

5

N

BEGIN PROJECT 2984-00-74
STA 10VL+69.11

VPI STA 10+69.11
VPIEL 92.51

VPI STA 11+00.00
VPIEL 92.77

VPI STA 11+40.00
VPIEL 93.48

VPI STA 12+00.00
VPIEL 94.44

VPI STA 13+00.00
VPIEL 96.07

VPI STA 14+60.00
VPIEL 98.00

0.84%
1.78%
1.60%
1.63%
1.21%
0.79%

FINISHED PROFILE AT
R/L W. VLIET STREET

EXISTING PROFILE AT
R/L W. VLIET STREET

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

	9+00	10+00	11+00	12+00	13+00	14+00	15+00
EXISTING	91.5	92.1	92.8	93.6	94.4	95.2	96.0
FINISHED			92.77	93.64	94.44	95.26	96.07	96.67	97.28	97.88	98.32

102 100 98 96 94 92 90 88

PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 305 E

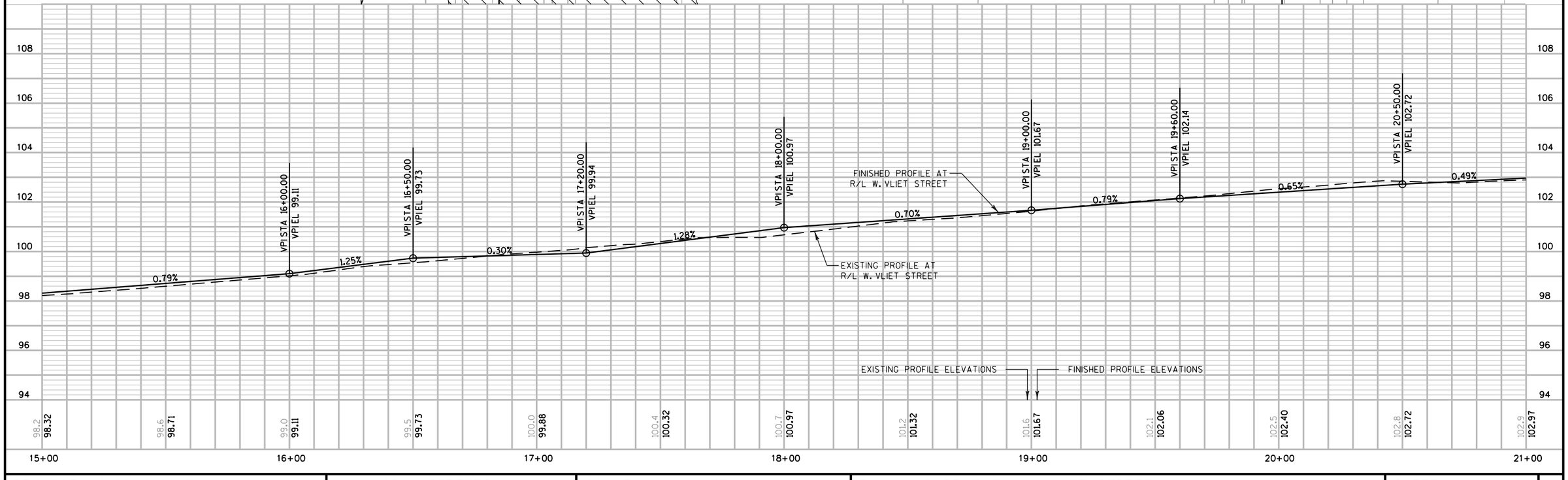
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Pr 3d 27x2023 12:56:35 PM dbaumann\P&P01_ppPlot.dgn

PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM2	20VL+34	34' RT	SE QUAD 24TH STREET, "X" ON STEP FOR BUILDING 2435	103.58

HISTORICAL BOUNDARY
PAUL JUNG FUNERAL HOME 2506 W. VLIET ST
PETROLEUM-CONTAMINATED SOIL STA 16VL+20 - STA 16VL+70 1 - 6 FEET BELOW GRADE
EXISTING R/W
N. 25TH STREET
R/L 25TH STREET
SLOPE INTERCEPTS (TYP.)
CITY OF MILWAUKEE SEWERS
EXISTING R/W
WE ENERGIES - ELECTRIC
R/L W. VLIET STREET
W. VLIET STREET
MATCHLINE 15VL+00
MATCHLINE 21VL+00
CITY OF MILWAUKEE TRAFFIC & LIGHTING CONDUIT
GRASS
EXISTING R/W
SOLID WASTE STA 16VL+50 - STA 18VL+00 1 - 12+ FEET BELOW GRADE
APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION 5/10/2017
WE ENERGIES - GAS
SLOPE INTERCEPTS (TYP.)
MILWAUKEE WATER WORKS
CITY OF MILWAUKEE CONDUIT
EXISTING R/W
R/L 24TH STREET
N. 24TH PLACE
HISTORICAL BOUNDARY
ST. MICHAEL'S ROMAN CATHOLIC CHURCH COMPLEX 1445 N. 24TH ST
EXISTING R/W
SLOPE INTERCEPTS (TYP.)
TBM2
N



PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 306 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data\P_3x22_2023_12_04_365702_pp.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

ST. MICHAEL'S ROMAN CATHOLIC CHURCH COMPLEX
1445 N. 24TH ST

N. 24TH STREET

R/L 24TH STREET

ATC MANAGEMENT UNDERGROUND TRANSMISSION

EXISTING R/W

CITY OF MILWAUKEE TRAFFIC & LIGHTING CONDUIT

HISTORICAL BOUNDARY

SLOPE INTERCEPTS (TYP.)

WE ENERGIES - ELECTRIC

MILWAUKEE WATER WORKS

N. 23RD STREET

ASPHALT

GRASS

MATCHLINE 21VL+00

R/L W. VLIET STREET

W. VLIET STREET

22VL

23VL

24VL

25VL

26VL

MATCHLINE 27VL+00

CONC. | GRASS | ASPHALT

CITY OF MILWAUKEE CONDUIT

CITY OF MILWAUKEE COMMUNICATION

WE ENERGIES - GAS

CITY OF MILWAUKEE SEWERS

SLOPE INTERCEPTS (TYP.)

EXISTING R/W

CAUTION

VPI STA 22+35.00
VPI EL 103.62

VPI STA 22+95.00
VPI EL 103.42

VPI STA 24+10.00
VPI EL 103.82

VPI STA 25+80.00
VPI EL 104.41

VPI STA 27+00.00
VPI EL 104.77

EXISTING PROFILE AT R/L W. VLIET STREET

FINISHED PROFILE AT R/L W. VLIET STREET

0.49%

+0.35%

0.35%

0.35%

0.30%

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

102.9 / 102.97	103.2 / 103.21	103.3 / 103.45	103.4 / 103.57	103.6 / 103.43	104.0 / 103.61	104.0 / 103.78
104.1 / 103.96	104.3 / 104.13	104.5 / 104.31	104.6 / 104.47	104.8 / 104.62	104.9 / 104.77	

110 108 106 104 102 100 98 96

21+00 22+00 23+00 24+00 25+00 26+00 27+00

PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Set\Profile Sheets\350703_pp.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM3	31VL+09	39' RT	SW QUAD 22ND STREET, "X" ON STEP FOR BUILDING 2125-29	106.82

N

MATCHLINE 27VL+00

MATCHLINE 33VL+00

R/L 22ND STREET

N. 22ND STREET

W. VLIET STREET

R/L W. VLIET STREET

27VL

28VL

29VL

30VL

31VL

32VL

33

CITY OF MILWAUKEE TRAFFIC & LIGHTING CONDUIT

EXISTING R/W

PETROLEUM-CONTAMINATED SOIL STA 27VL+55 - STA 28VL+15 1 - 8 FEET BELOW GRADE

MILWAUKEE WATER WORKS

WE ENERGIES - ELECTRIC

EXISTING R/W

CITY OF MILWAUKEE SEWERS

WE ENERGIES - GAS

CITY OF MILWAUKEE COMMUNICATIONS

SLOPE INTERCEPTS (TYP.)

SLOPE INTERCEPTS (TYP.)

TBM3

CITY OF MILWAUKEE CONDUIT

EXISTING R/W

EXISTING R/W

CAUTION

GRASS

MH

GV

WV

3.58'

6.3

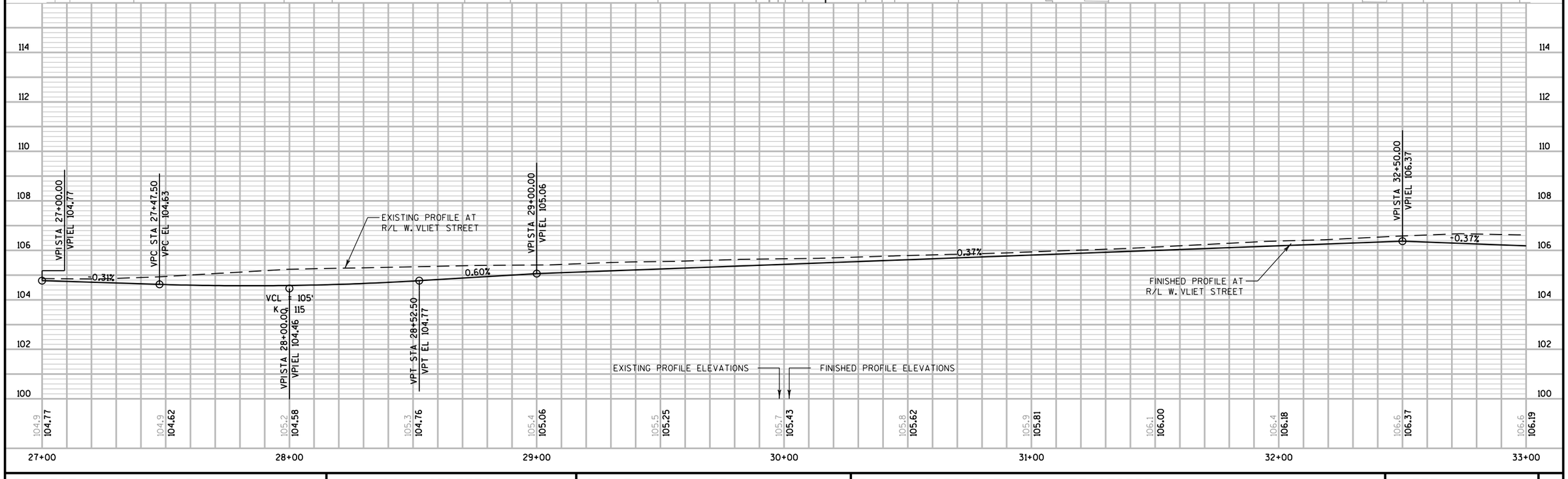
6.2

6'

5'

11'

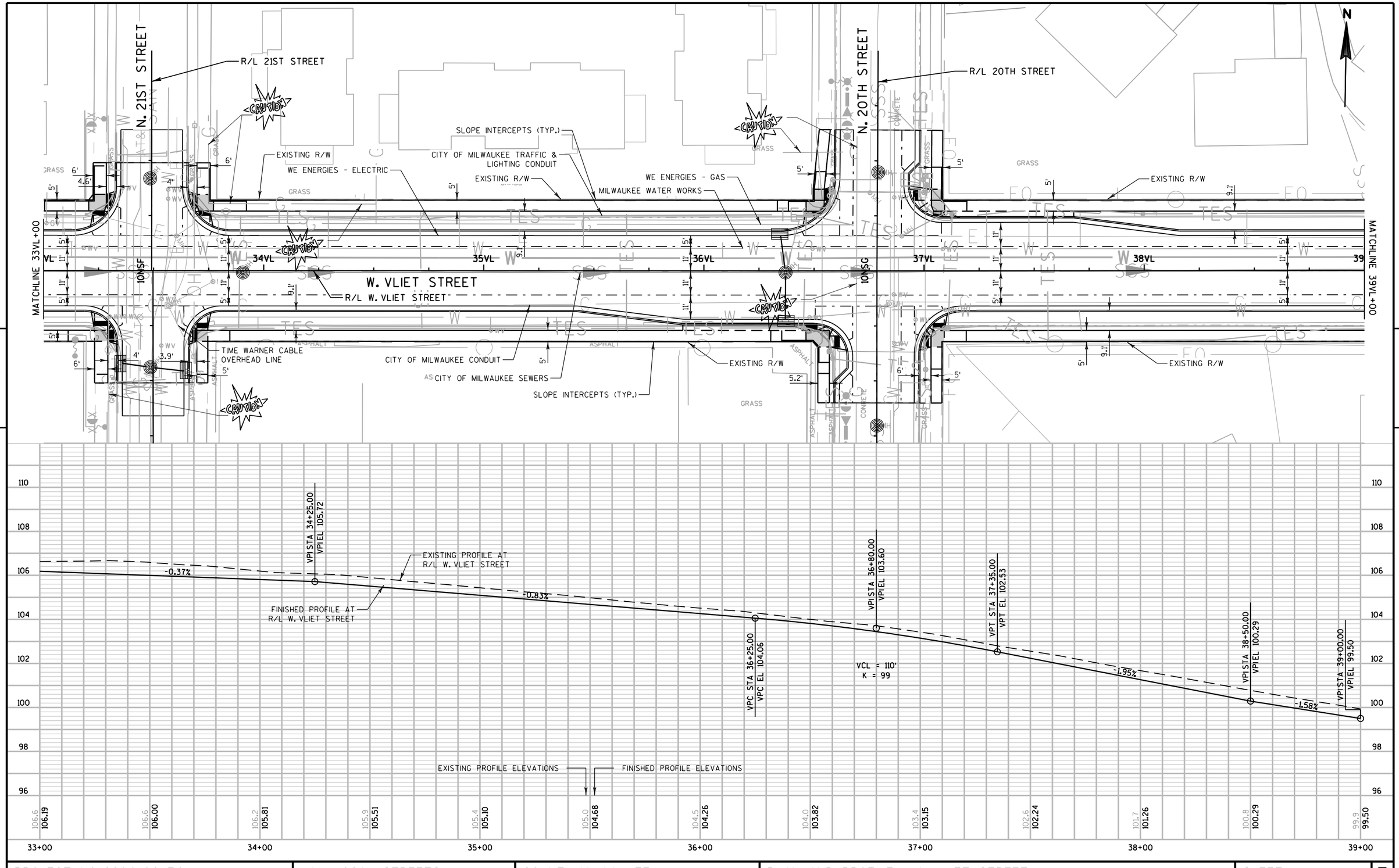
9.1'



PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 308 E

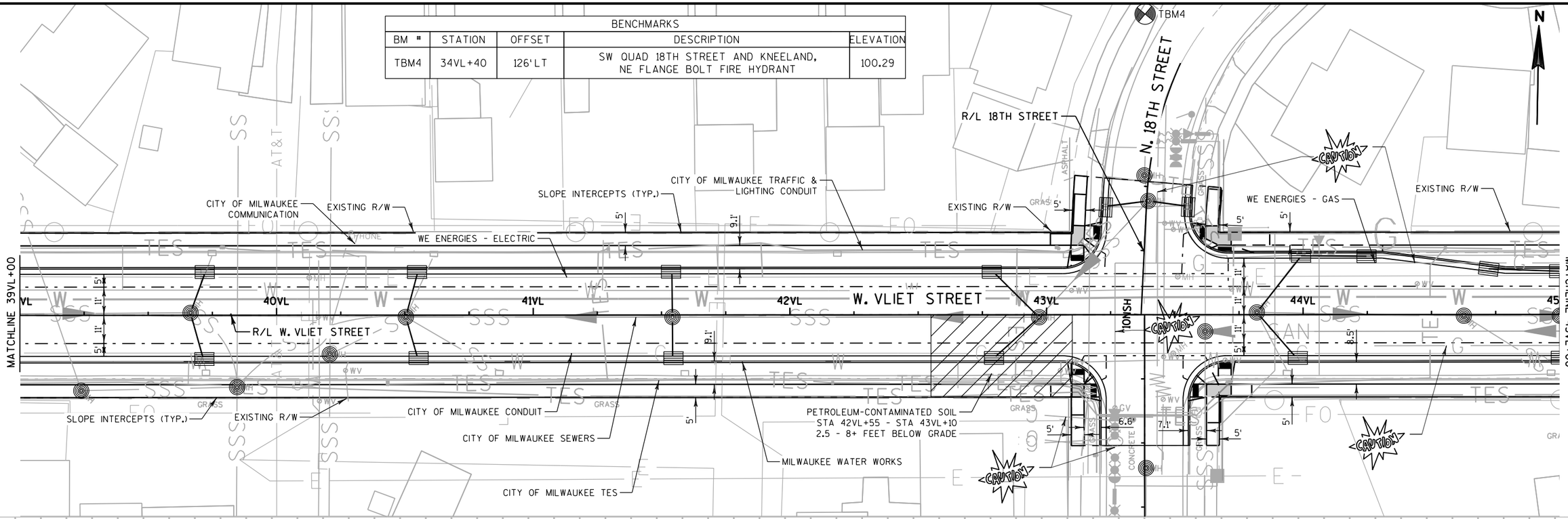
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod\22x34 12 Sht\060104_pp.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

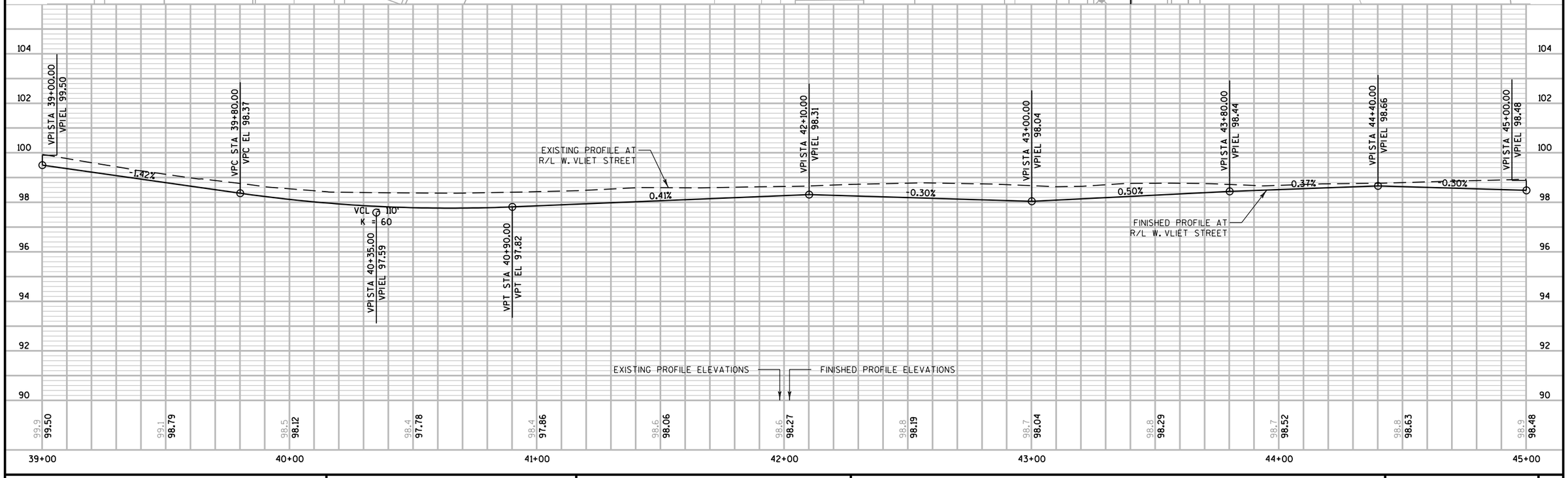
WISDOT/CADDS SHEET 40



PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 309 E

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM4	34VL+40	126'LT	SW QUAD 18TH STREET AND KNEELAND, NE FLANGE BOLT FIRE HYDRANT	100.29

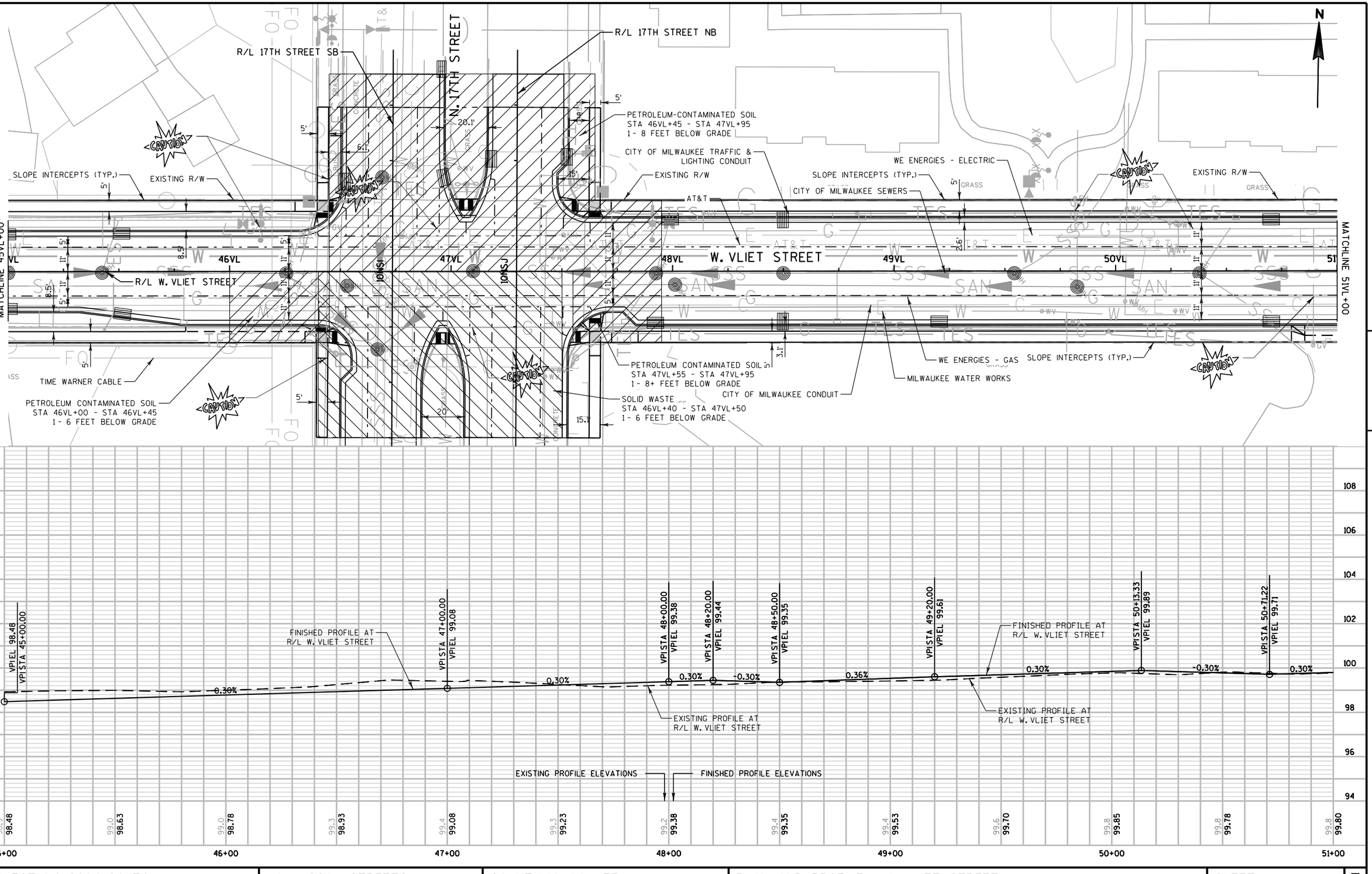




PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 310 E

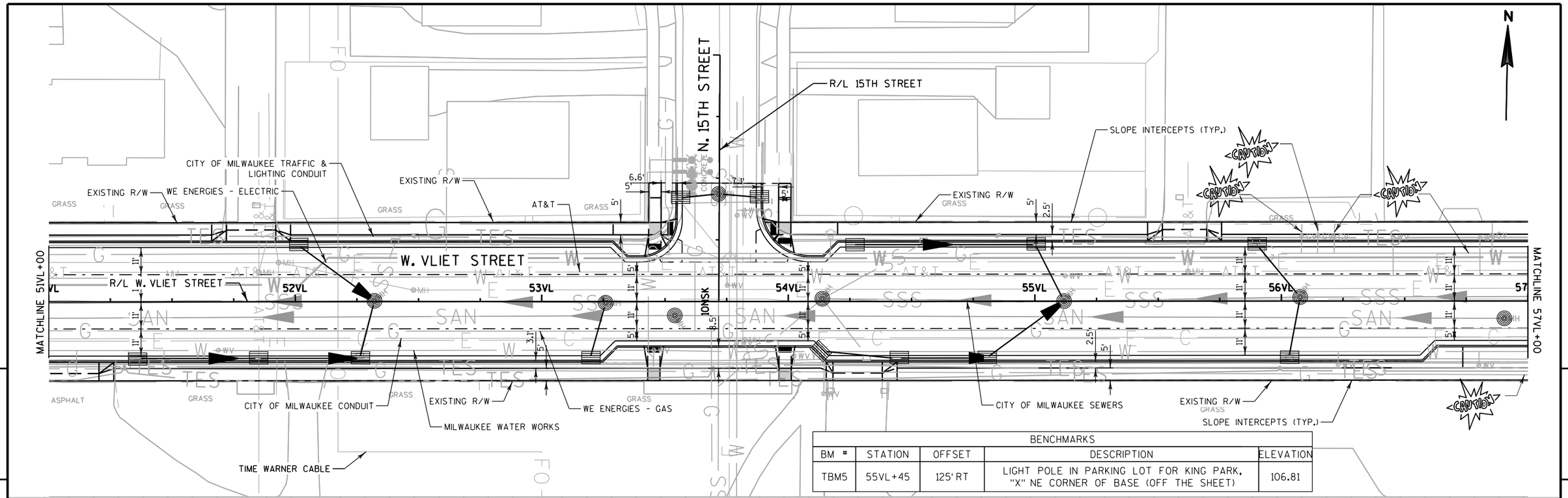
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod\2984-00-74_pp_plan.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

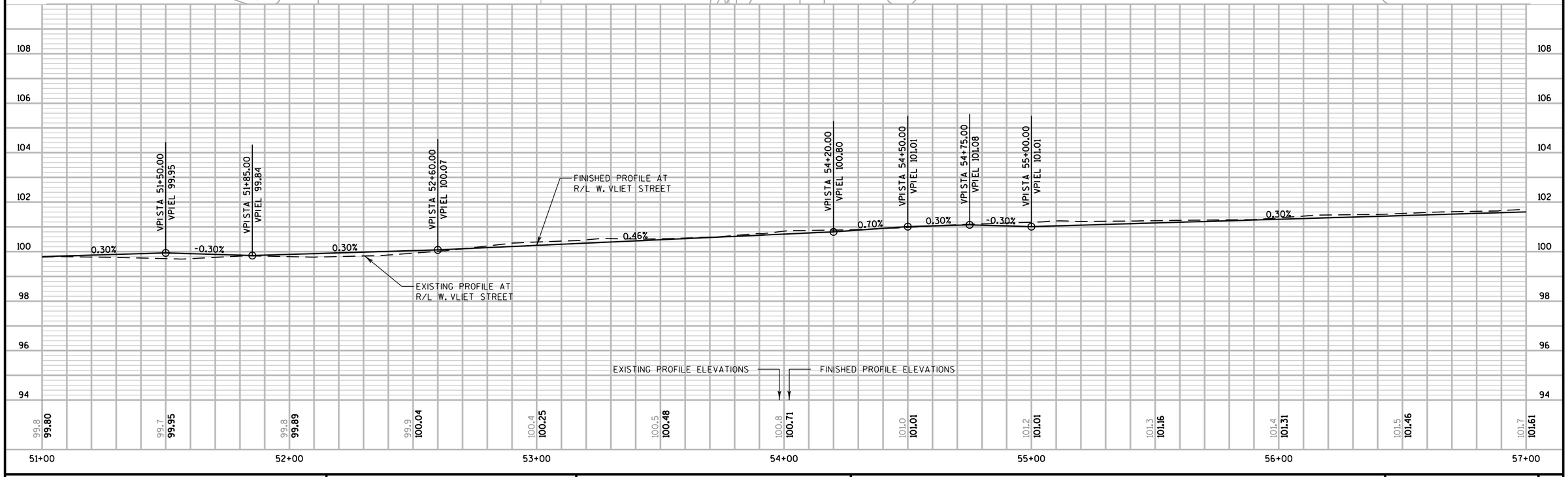


PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET E

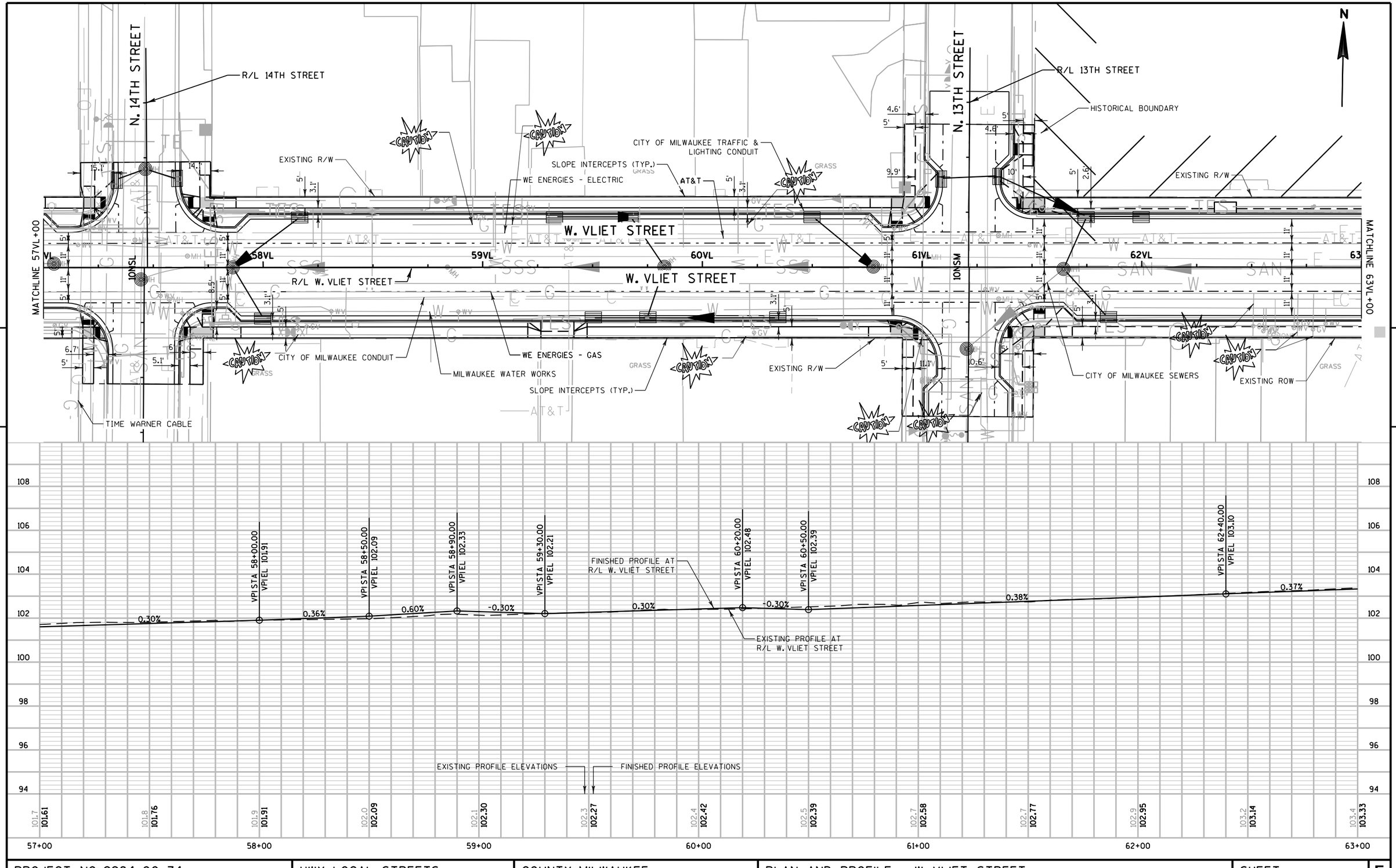
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2023_1_Sets\05M107_pp.dgn PLOTTED BY : dbaumann PLOT NAME : PLOT SCALE : 40:1



BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM5	55VL+45	125' RT	LIGHT POLE IN PARKING LOT FOR KING PARK, "X" NE CORNER OF BASE (OFF THE SHEET)	106.81



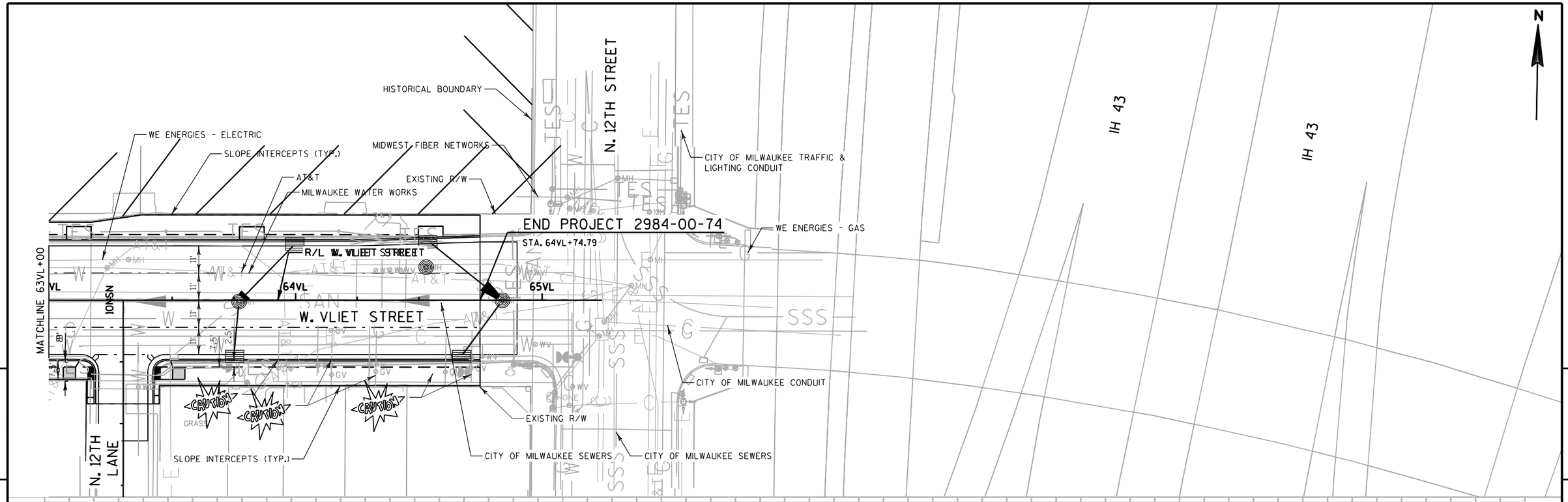
PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 312 E



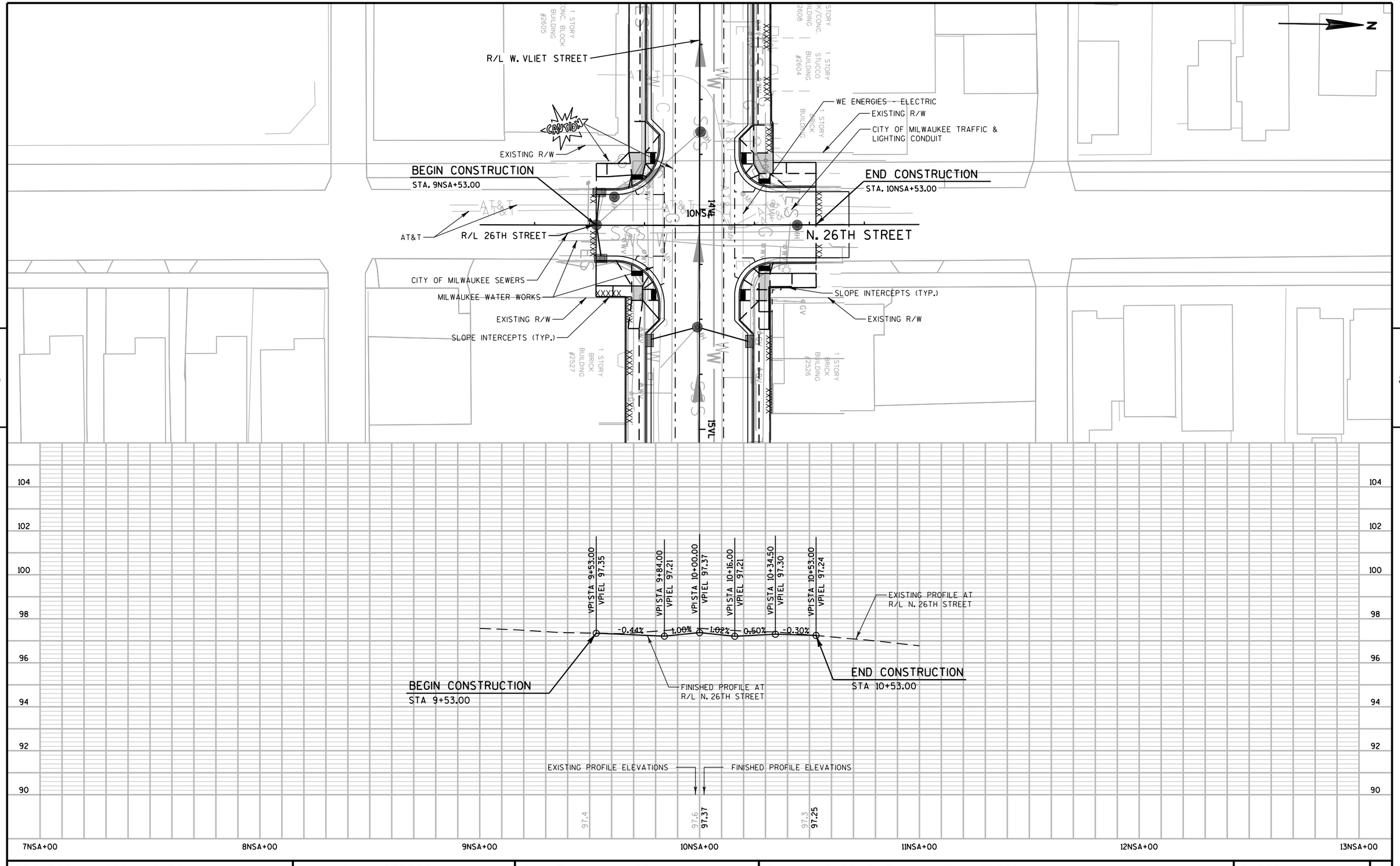
PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Sheets\Plan Sheets\PP_L01.dgn PLOTTED : Jan 27, 2023 - 12:56:55 PM BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



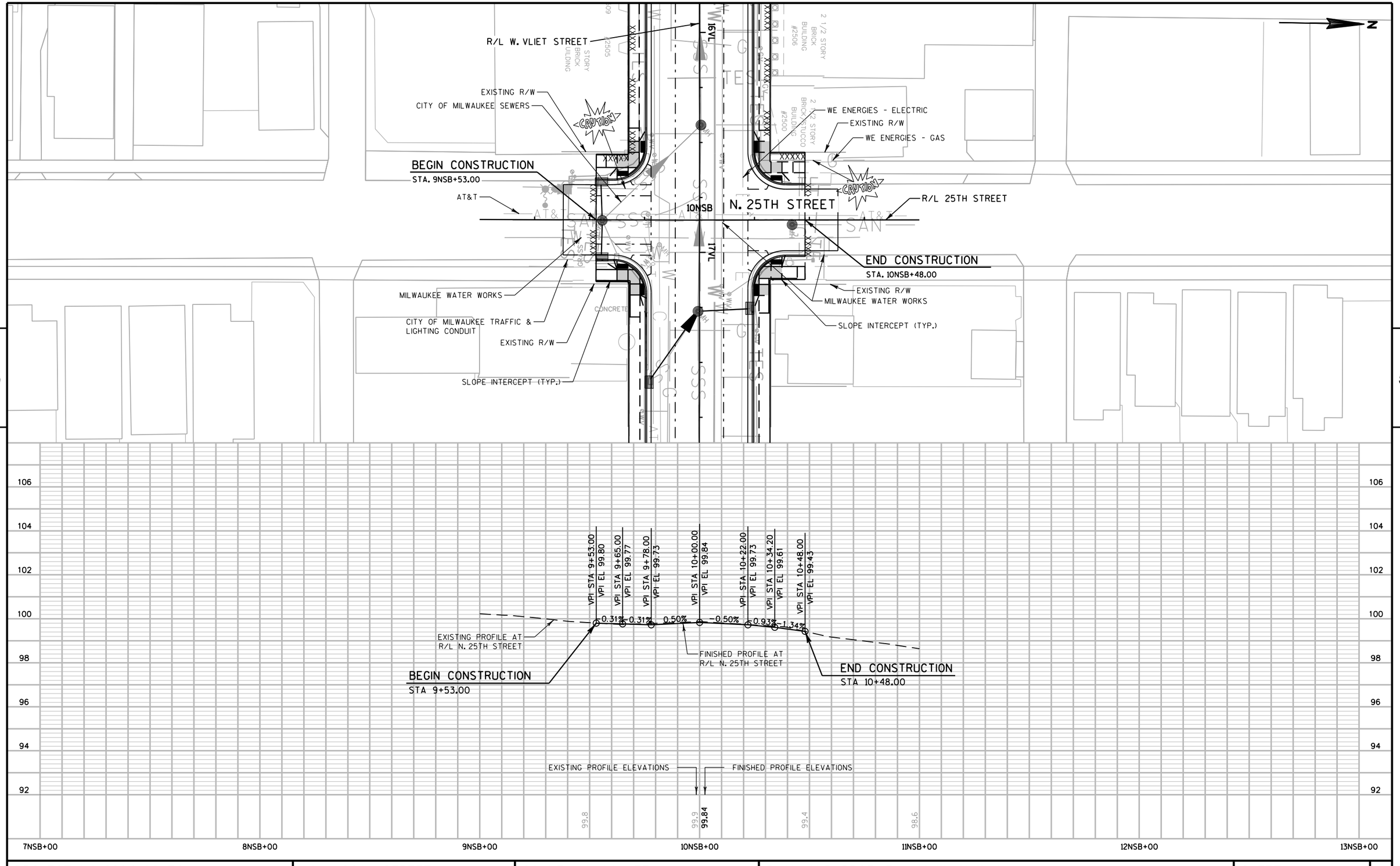
PROJECT NO: 2984-00-74	HWY: LOCAL STREETS	COUNTY: MILWAUKEE	PLAN AND PROFILE - W. VLIET STREET	SHEET 314 E



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 26TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\19\585041_pp11.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

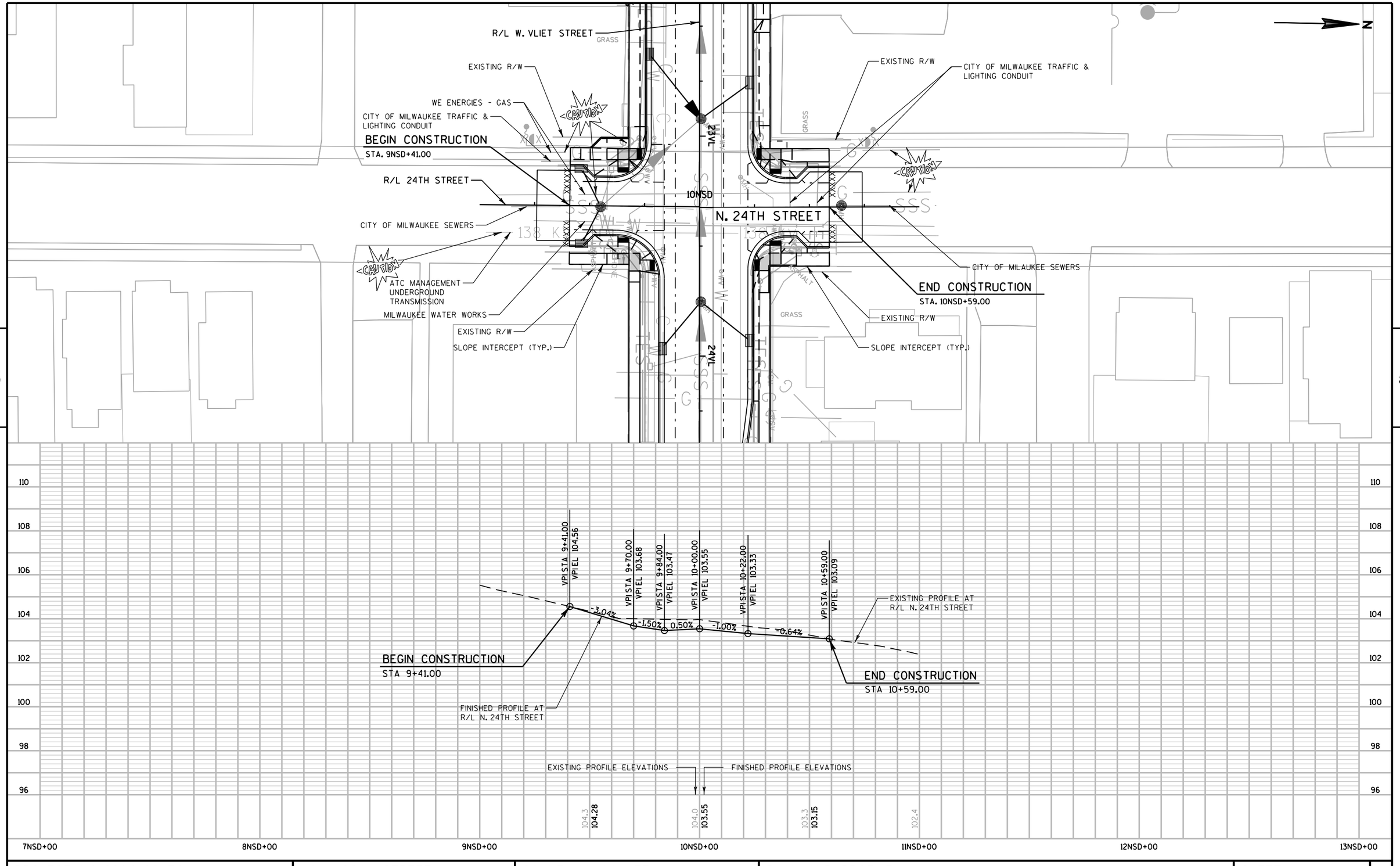
WISDOT/CADDS SHEET 40



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 25TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\s0054012_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

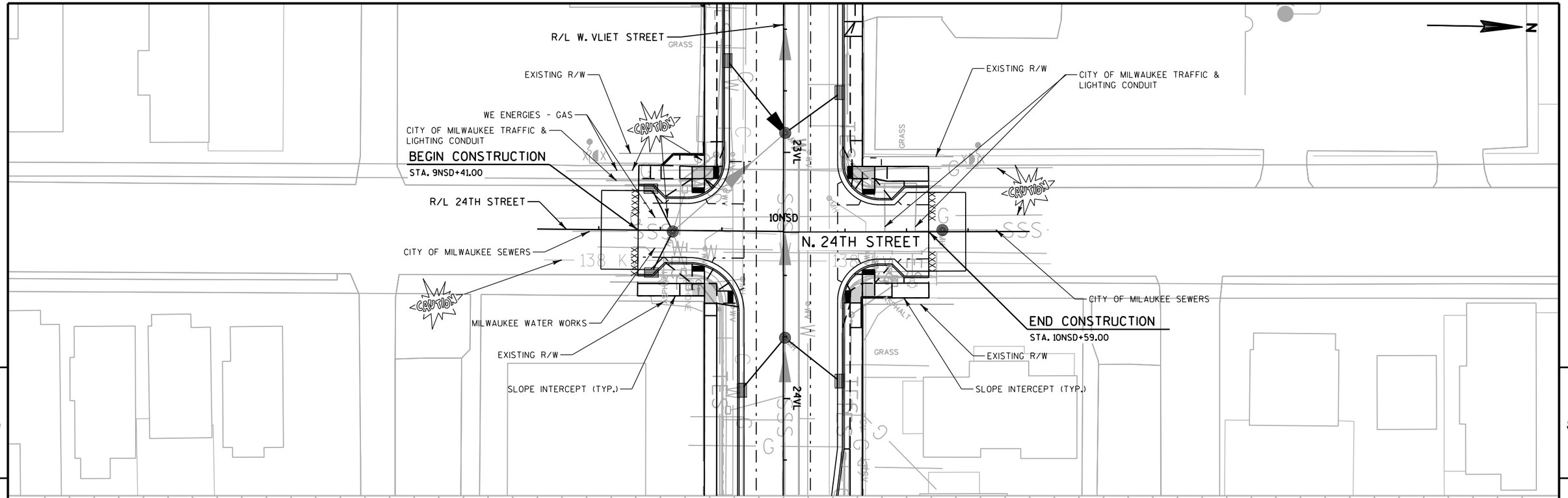
WISDOT/CADDS SHEET 40

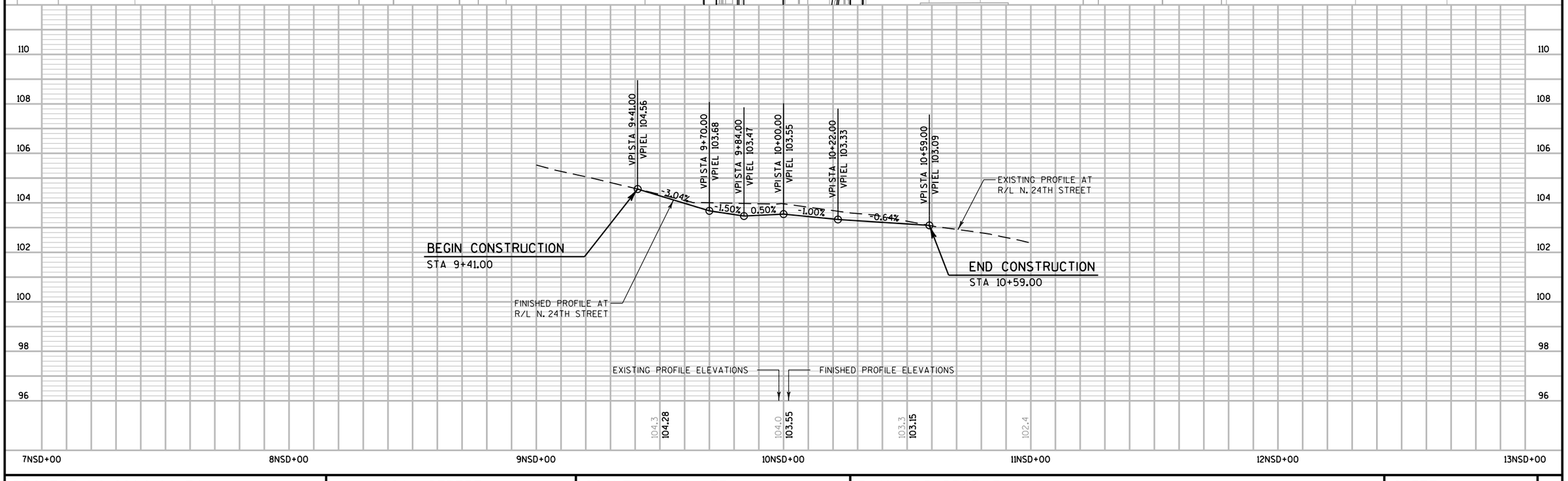


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 24TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\Plan Sheets\N14_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



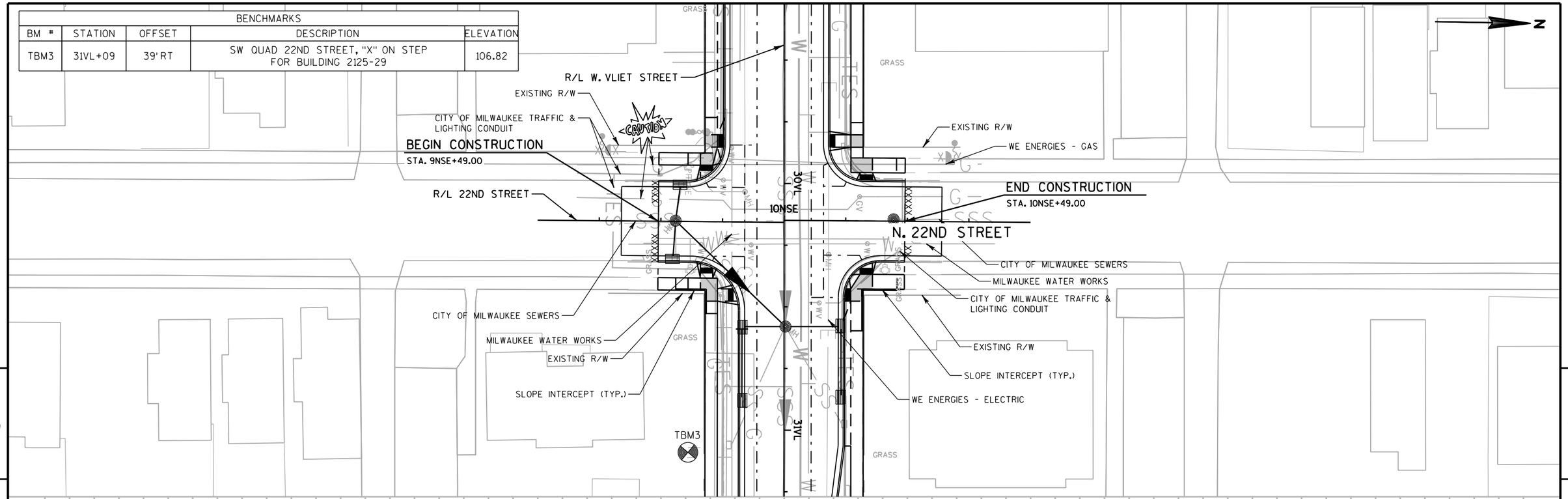


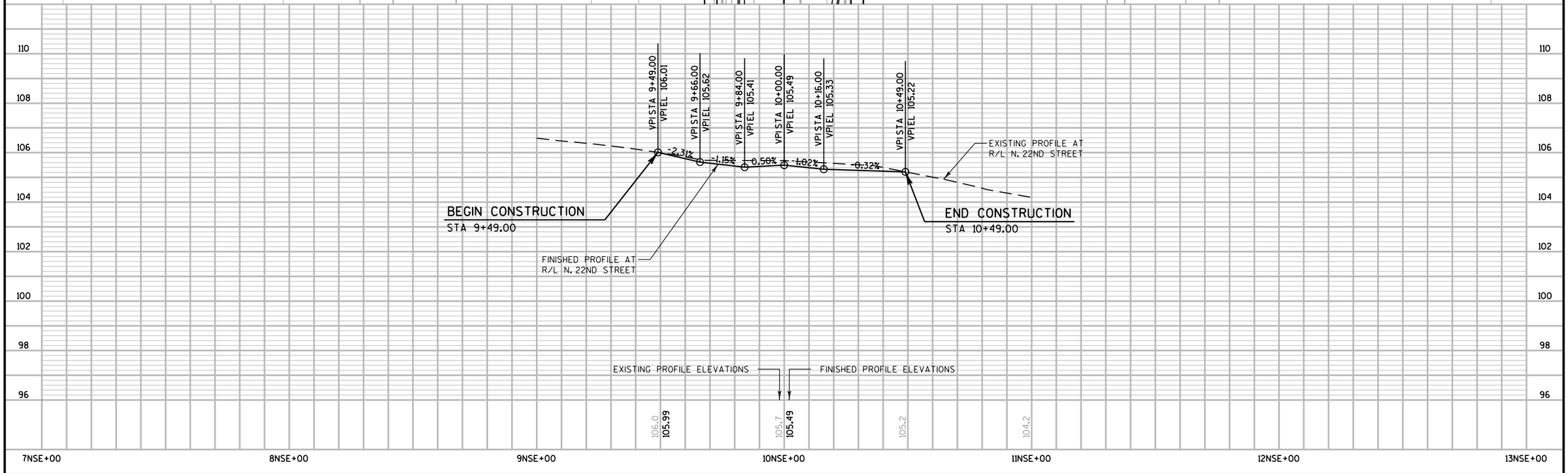
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 24TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\sl050114_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM3	31VL+09	39' RT	SW QUAD 22ND STREET, "X" ON STEP FOR BUILDING 2125-29	106.82

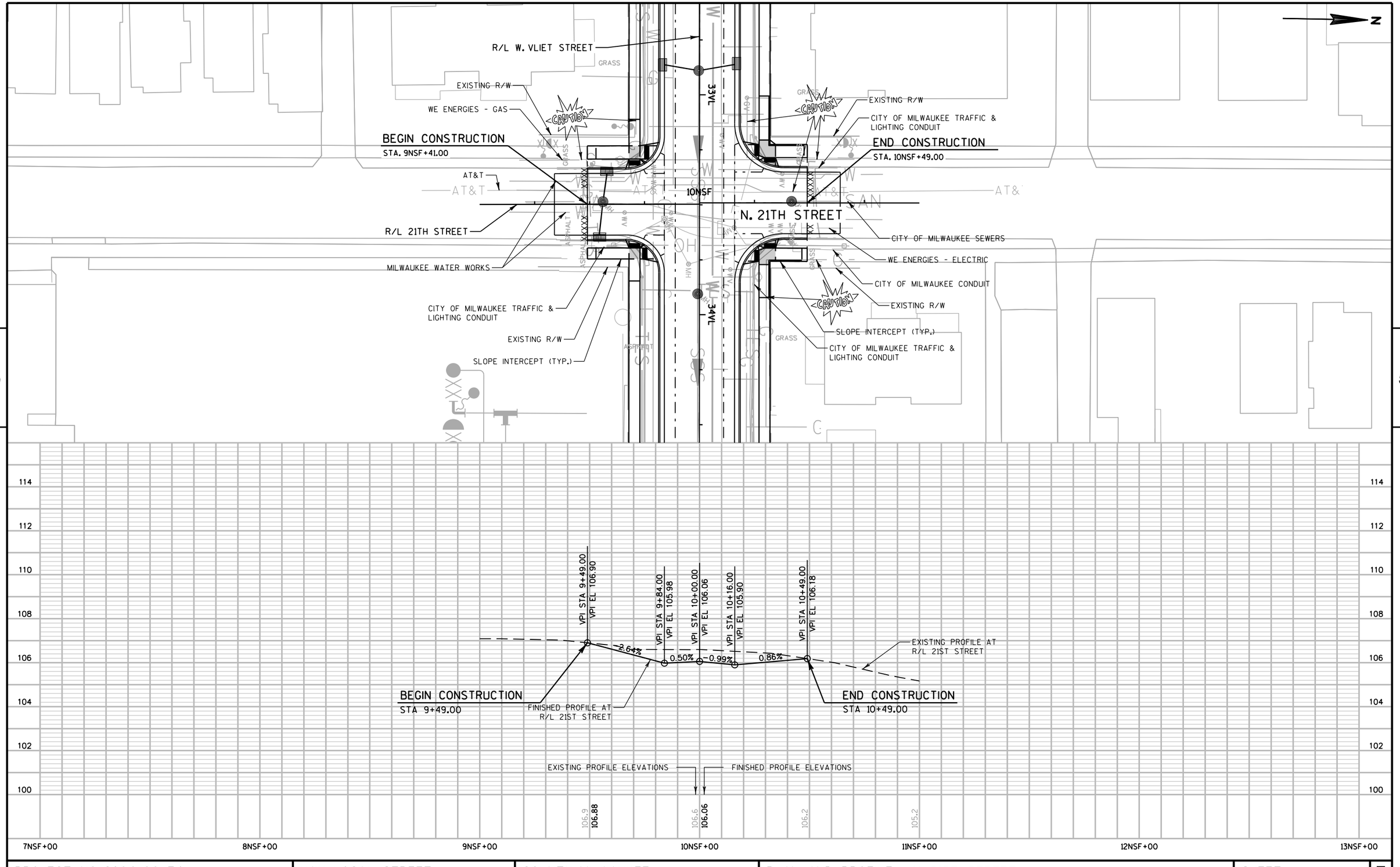




PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 22ND STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\sl050N15_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

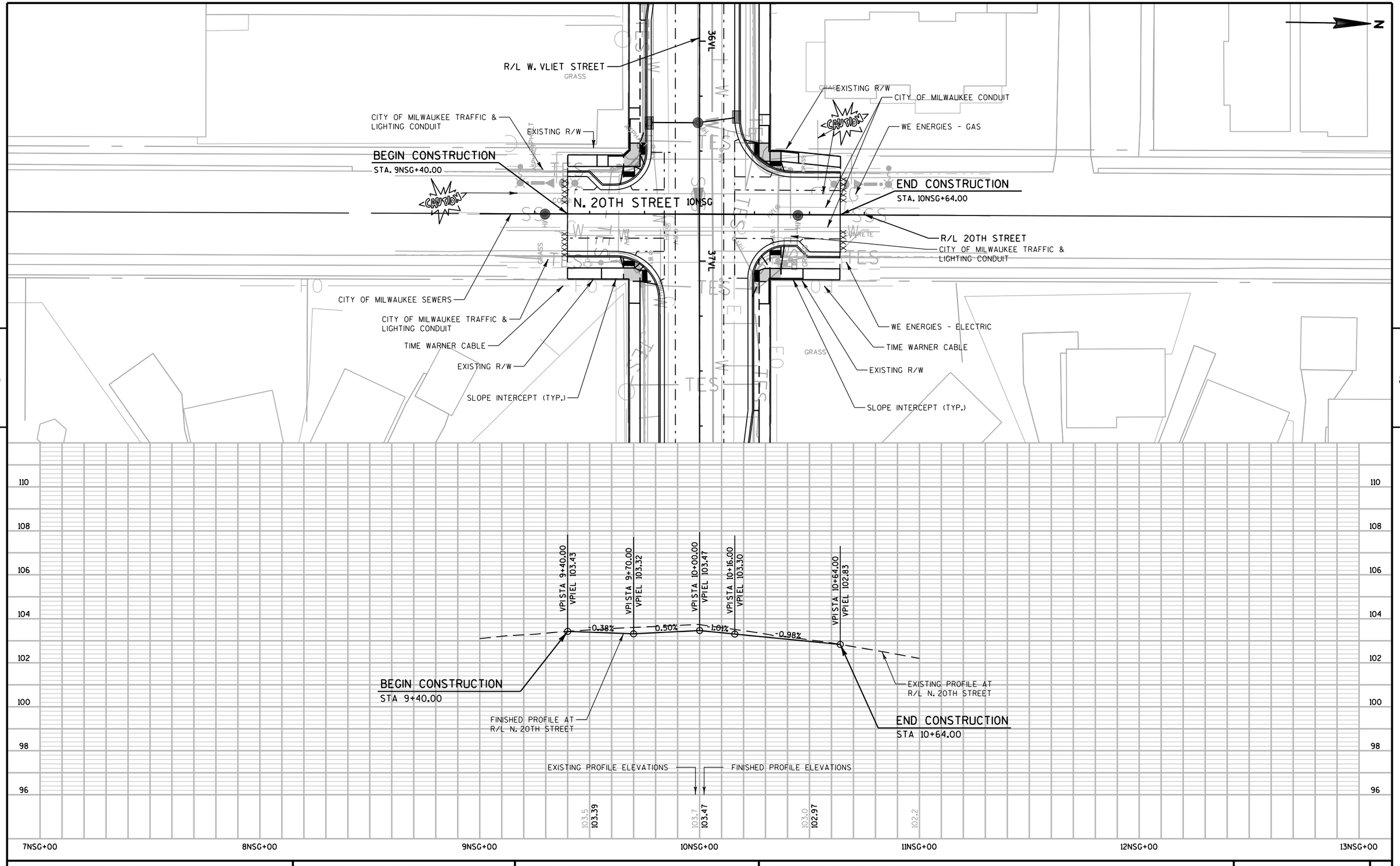
WISDOT/CADDS SHEET 40



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 21ST STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\sm050416_pp.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

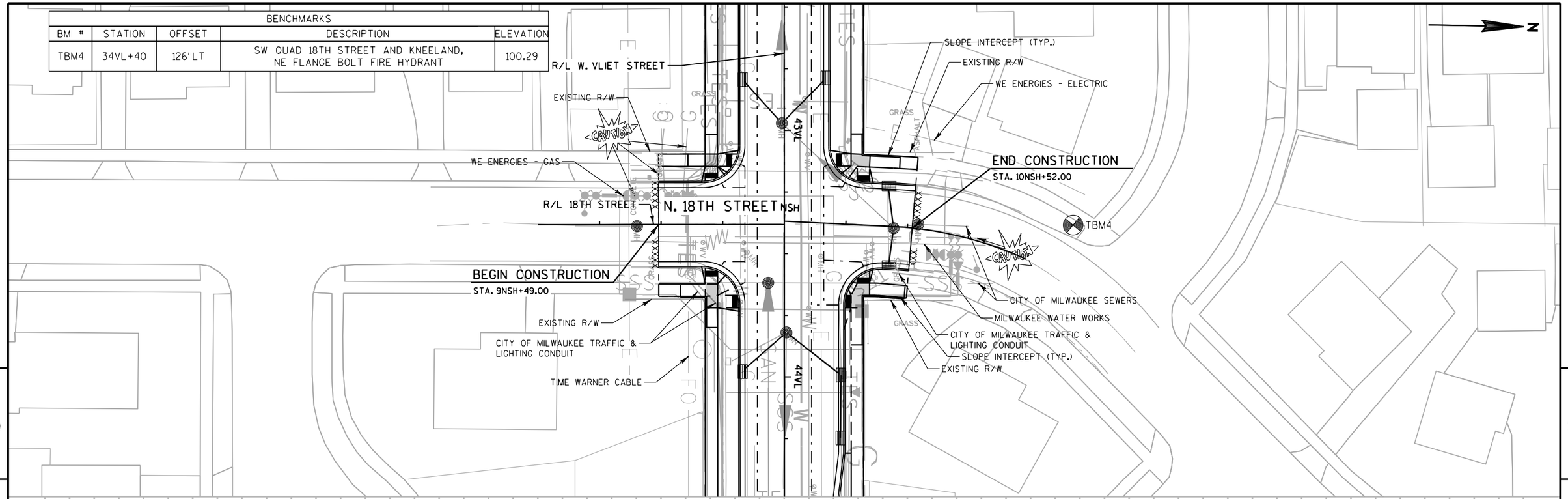


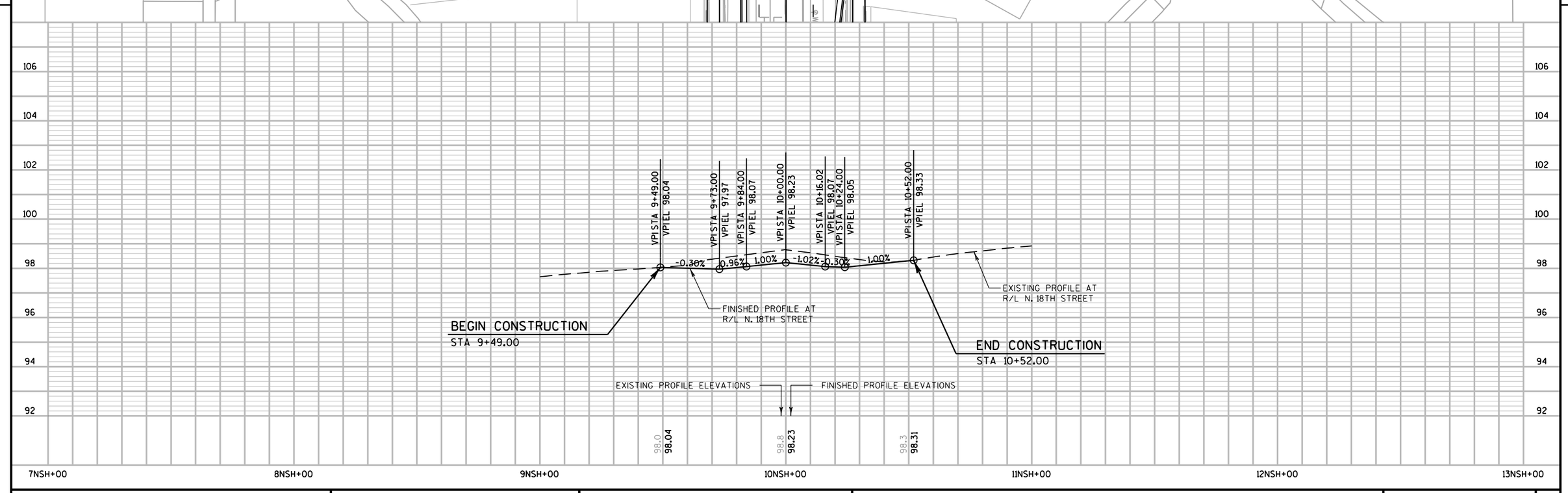
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 20TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 3\Dec2022\10120s1950N17_pp.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

BENCHMARKS				
BM #	STATION	OFFSET	DESCRIPTION	ELEVATION
TBM4	34VL+40	126'LT	SW QUAD 18TH STREET AND KNEELAND, NE FLANGE BOLT FIRE HYDRANT	100.29

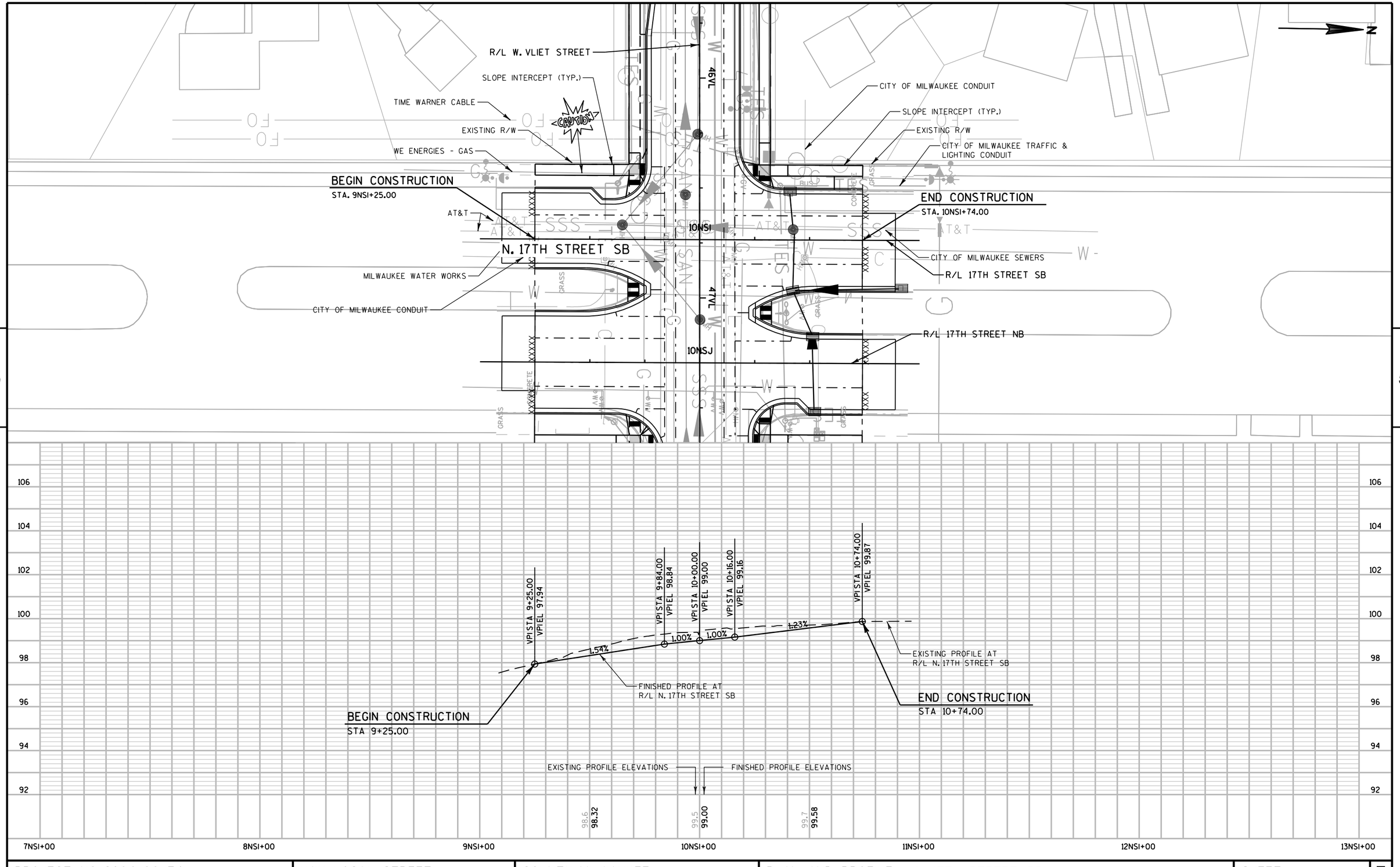




PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 18TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2022\10\20\s205N18_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

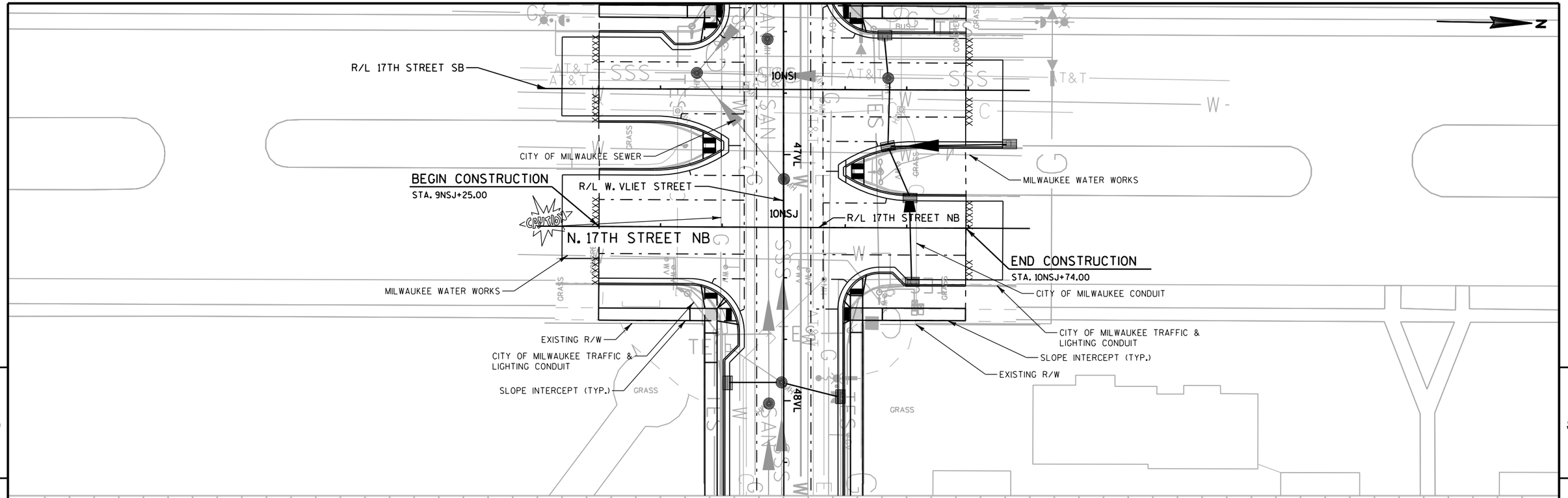
WISDOT/CADDS SHEET 40

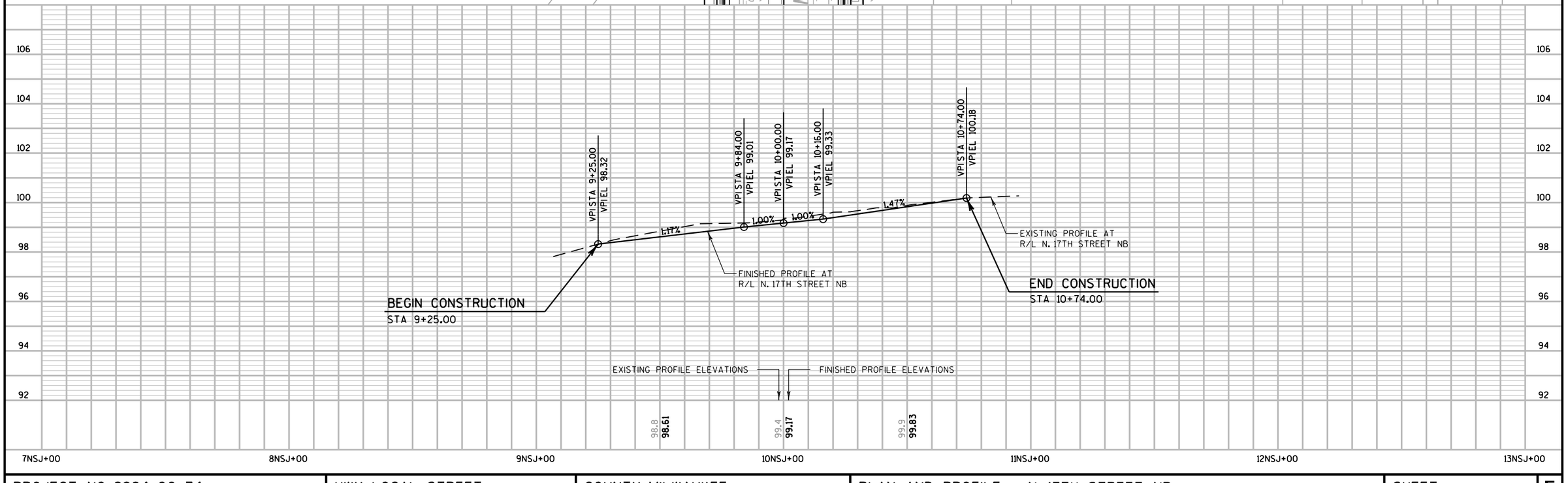


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 17TH STREET SB	SHEET E

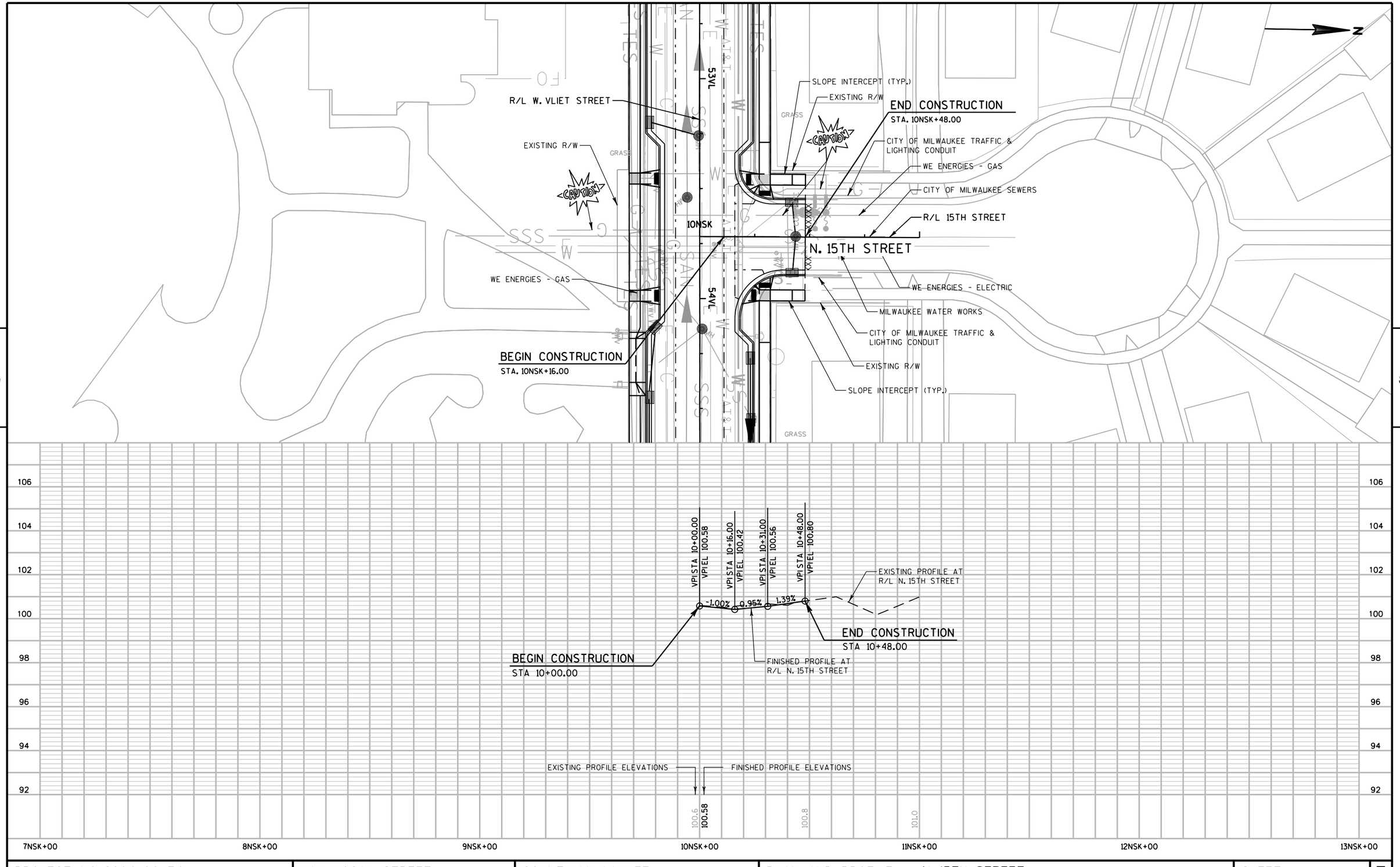
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\10120s05W19_pp.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40





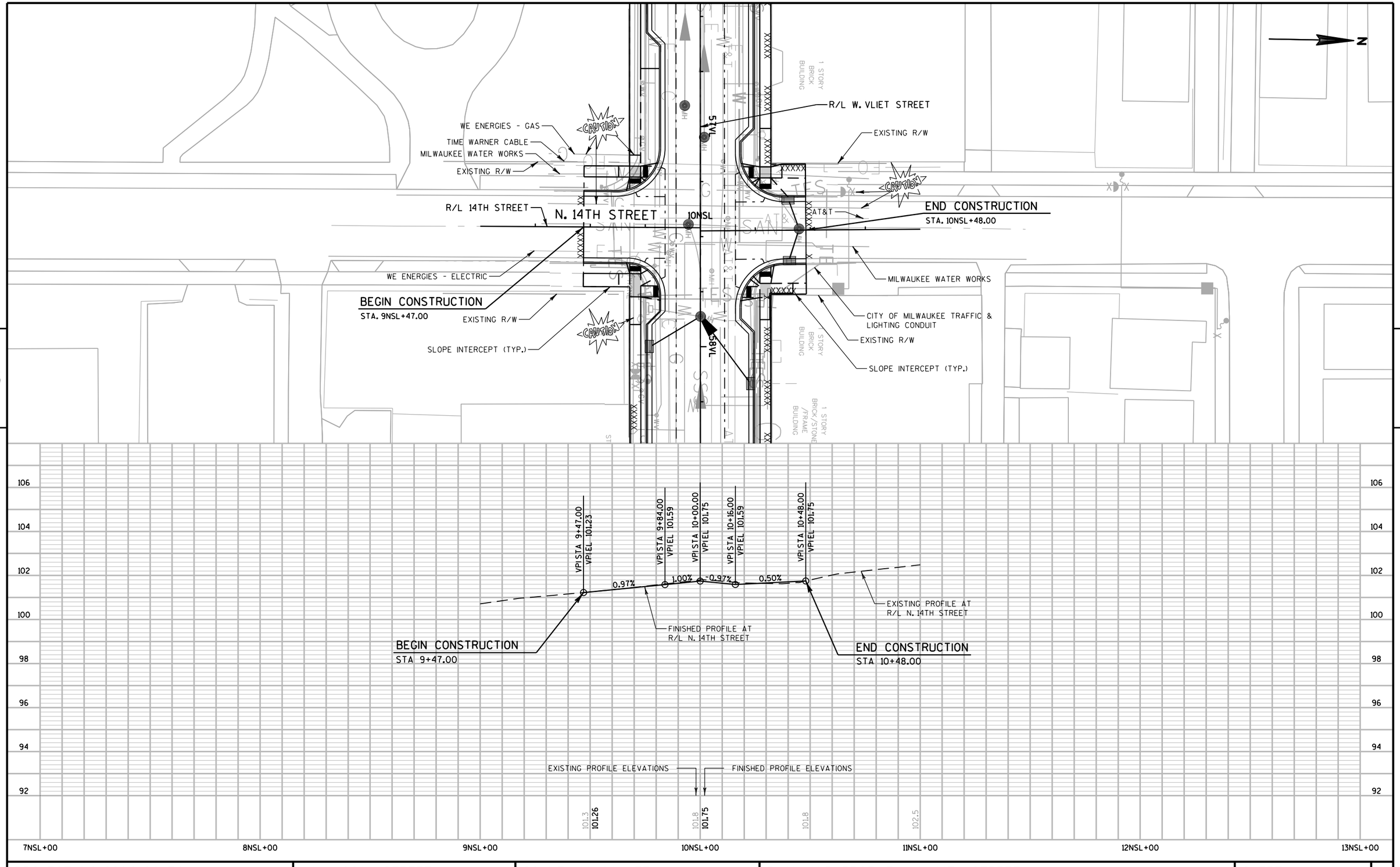
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 17TH STREET NB	SHEET 324 E



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 15TH STREET	SHEET E

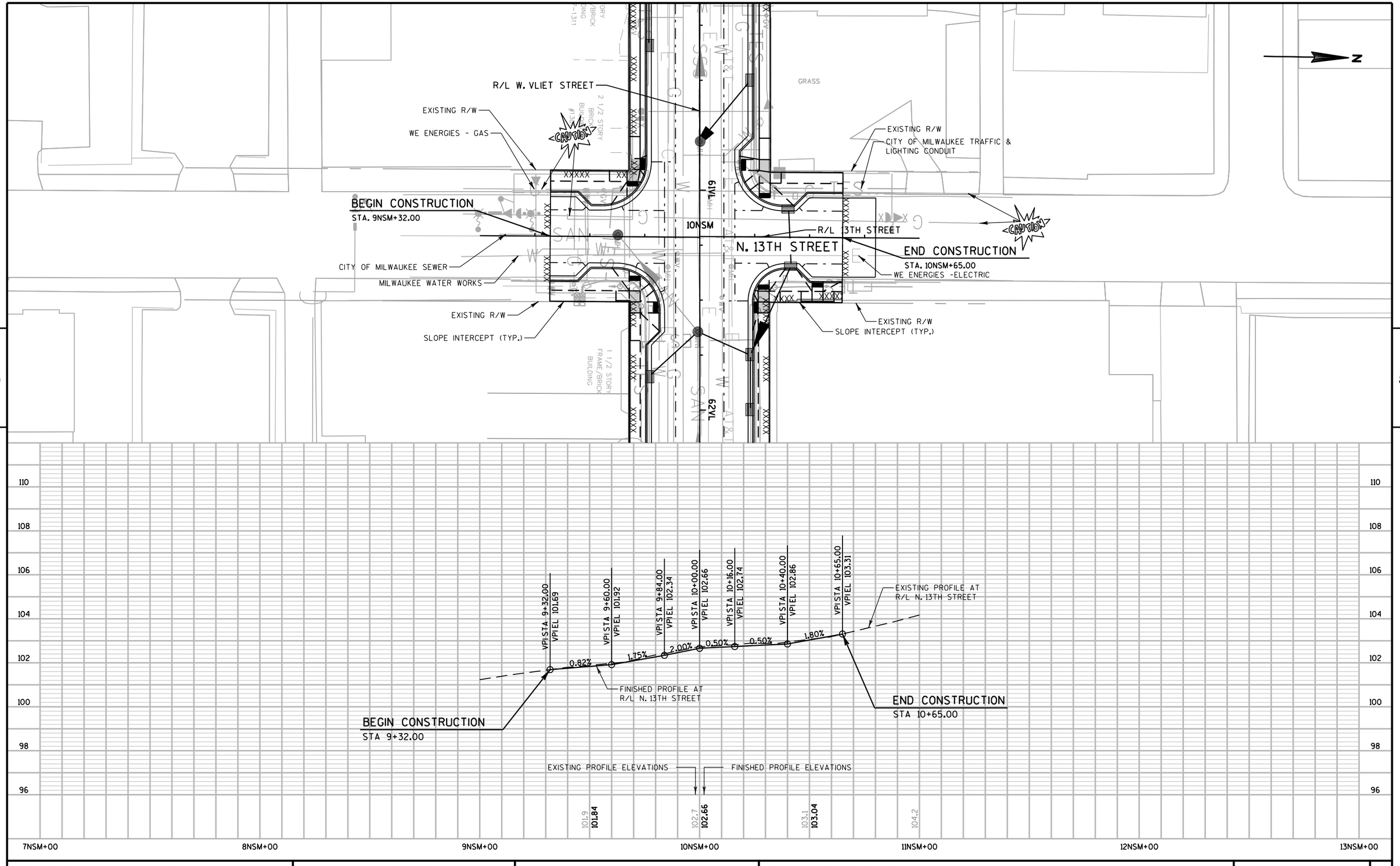
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package 2022\10_20s2054021_pp.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 14TH STREET	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2984-00-74_pp_P10.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1



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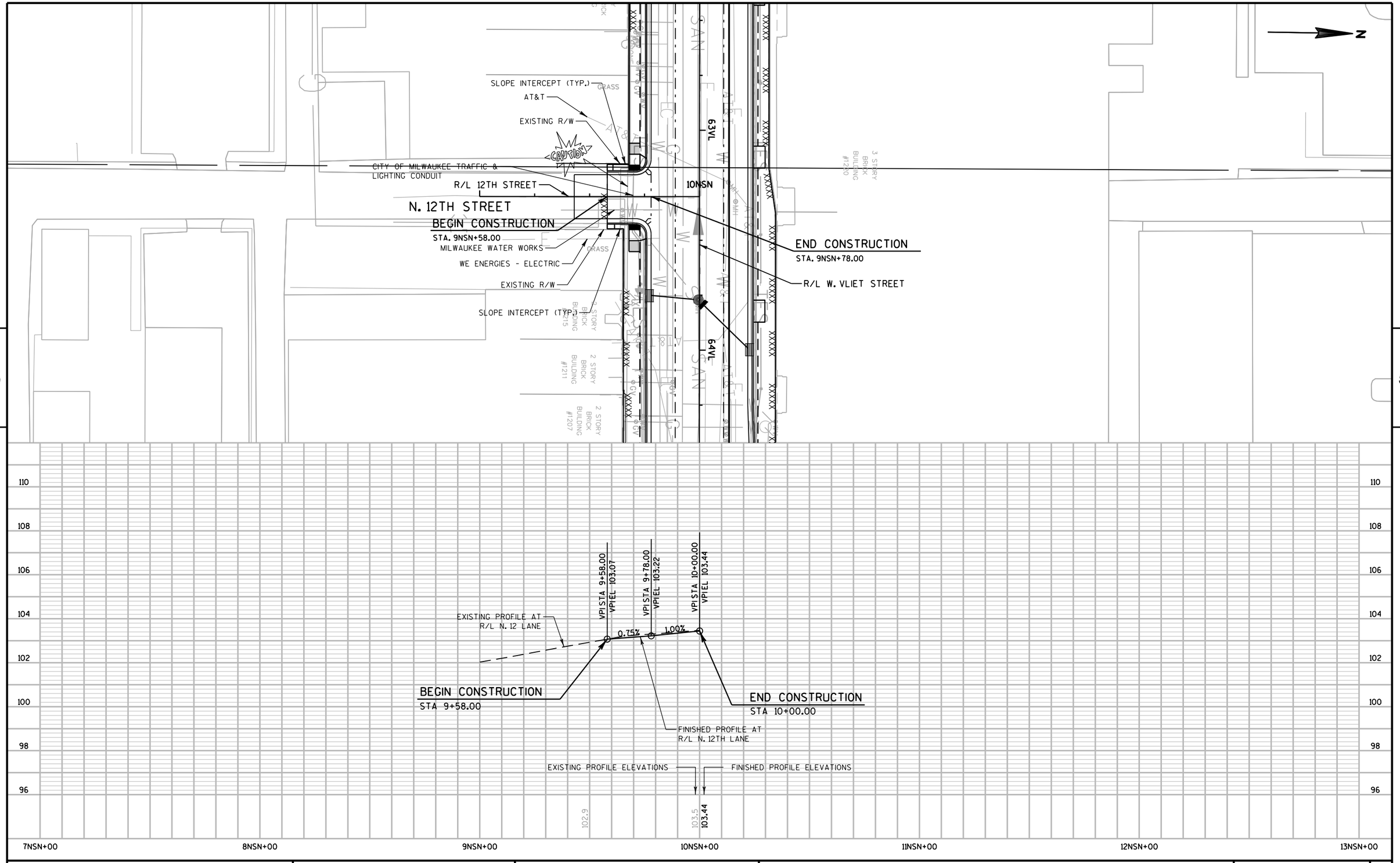
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prep\2984-00-74_PP10.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	PLAN AND PROFILE - N 12TH LANE	SHEET E

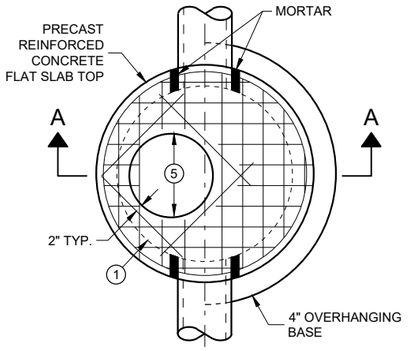
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Package\10120335011\24_pp1.dgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

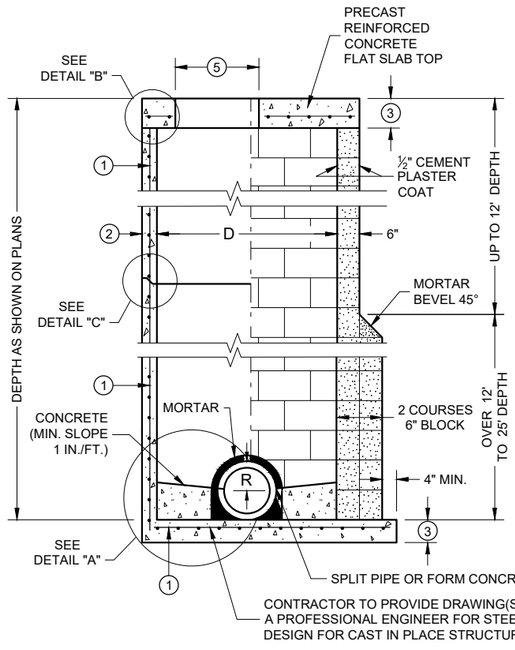
Standard Detail Drawing List

08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D18-03	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-03	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09E05-06	TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D40-04A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-04C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

6



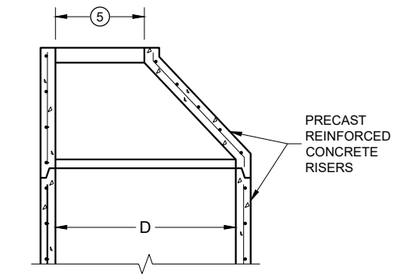
PLAN VIEW
CIRCULAR OPENING



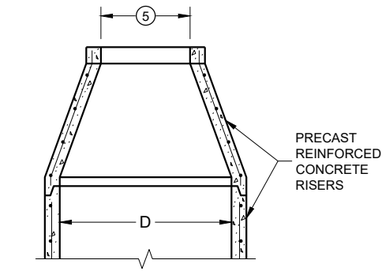
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

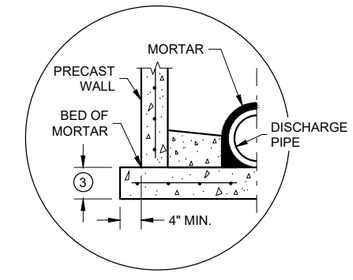
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

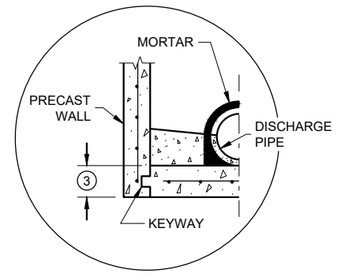
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

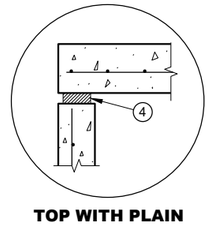


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

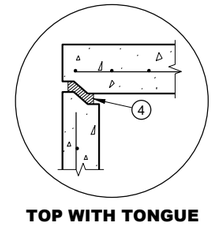


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

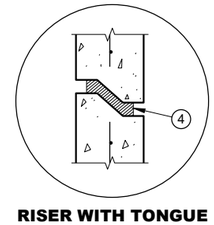
DETAIL "A"



TOP WITH PLAIN END JOINT

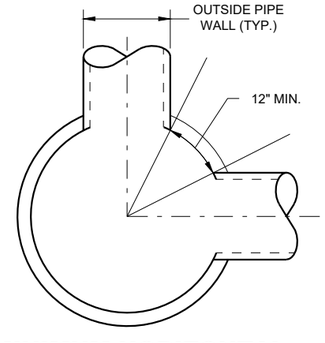


TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**



MINIMUM HORIZONTAL PIPE SEPARATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

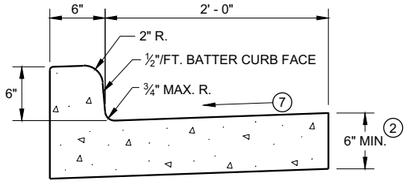
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
330
FHWA

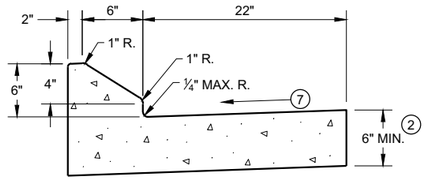
6

SDD 08B09 - 03

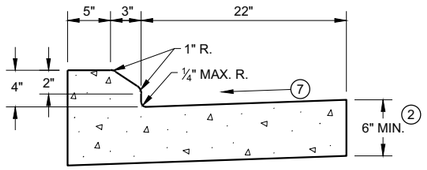
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER



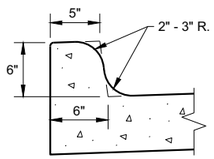
TYPES A (1) & D



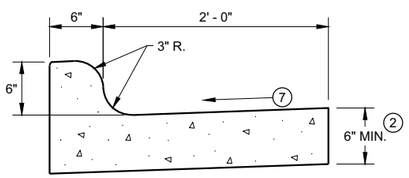
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

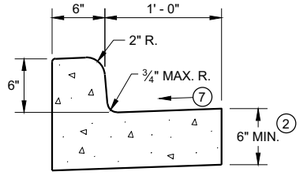


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



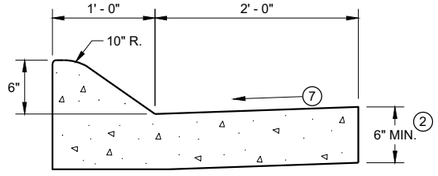
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

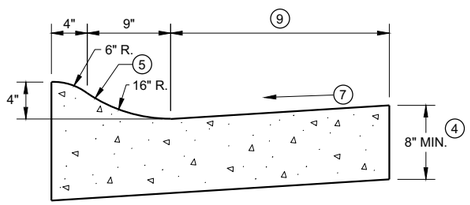
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

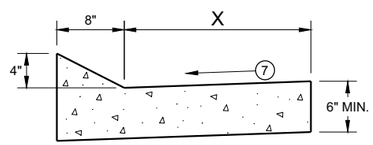
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

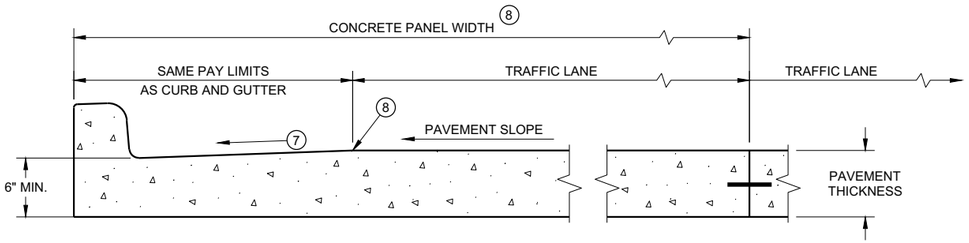


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

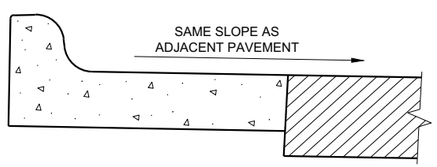
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

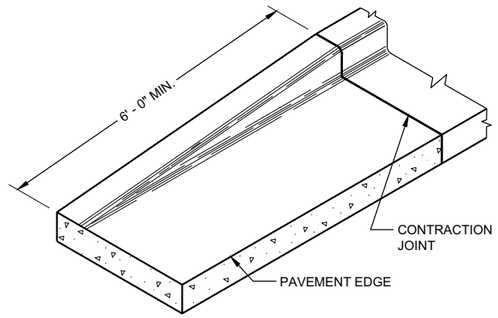
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

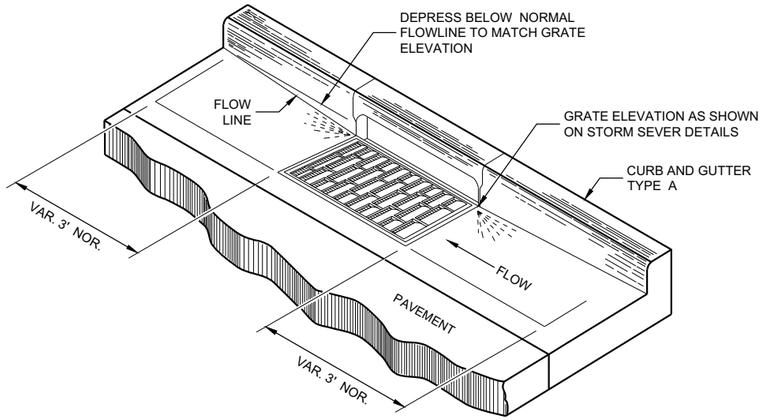
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

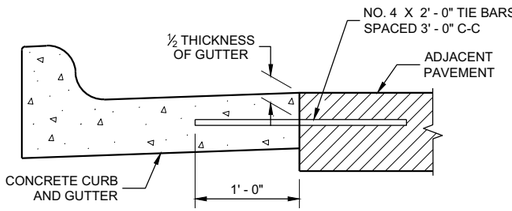
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

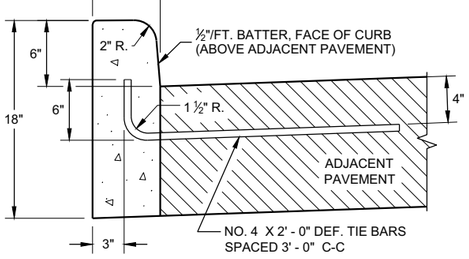
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

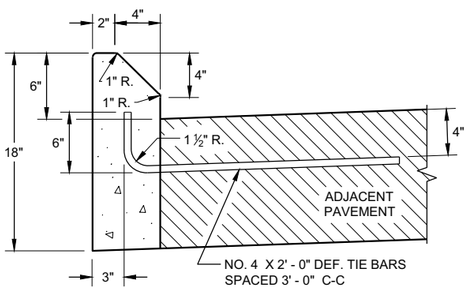
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

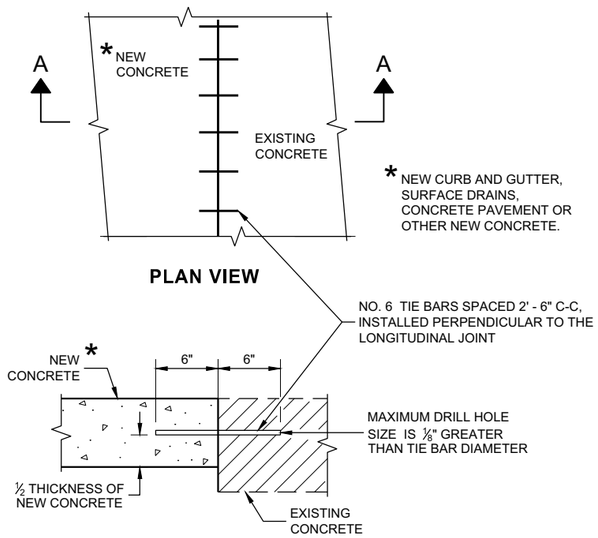


TYPES A (1) & D

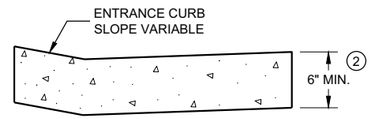


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD08D01 - 22b

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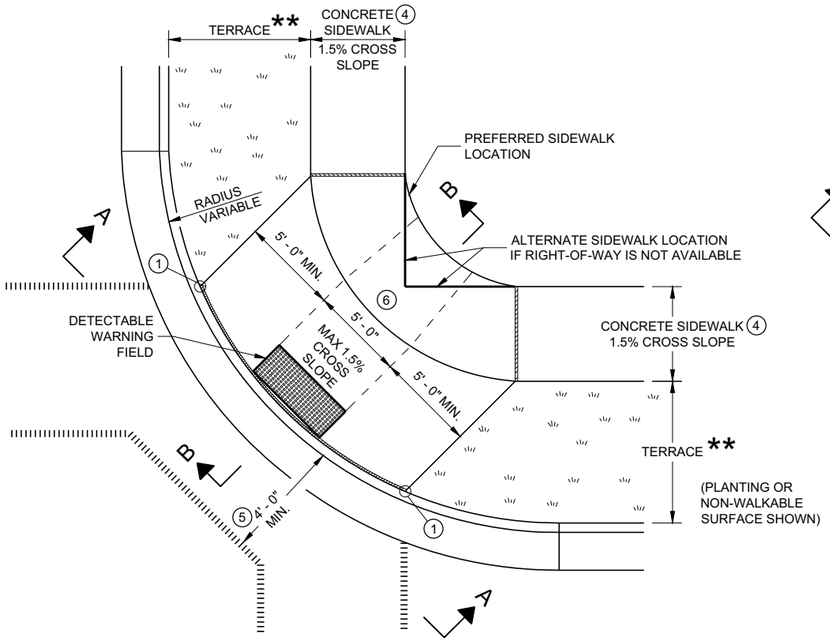
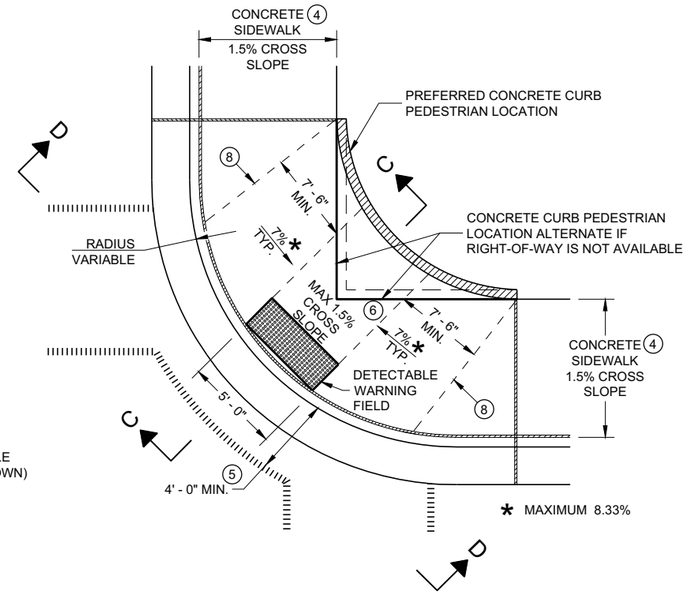
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

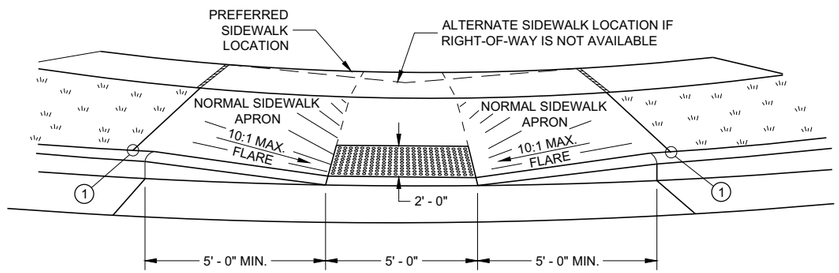
(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

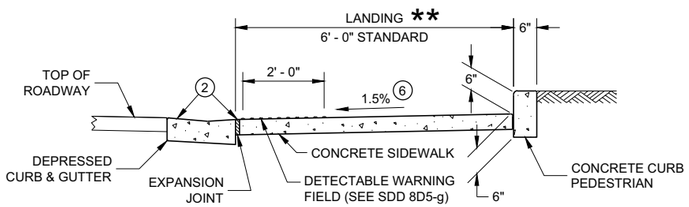
(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

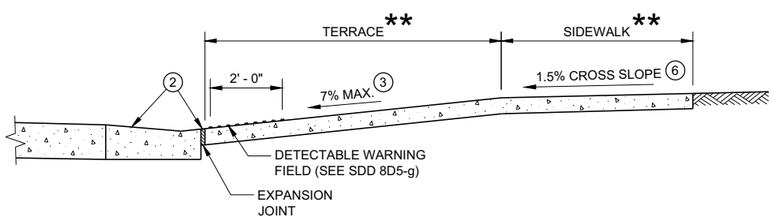


VIEW A - A FOR TYPE 1

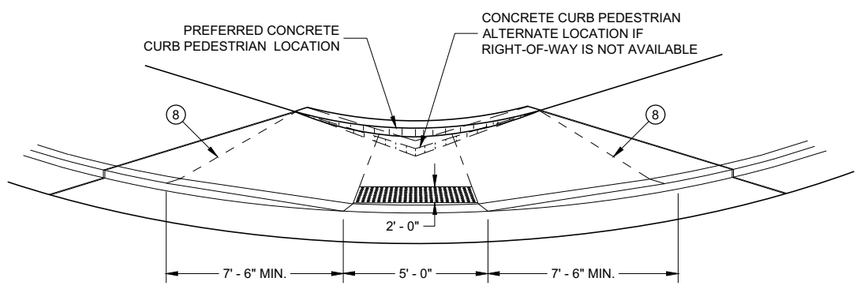


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

LEGEND

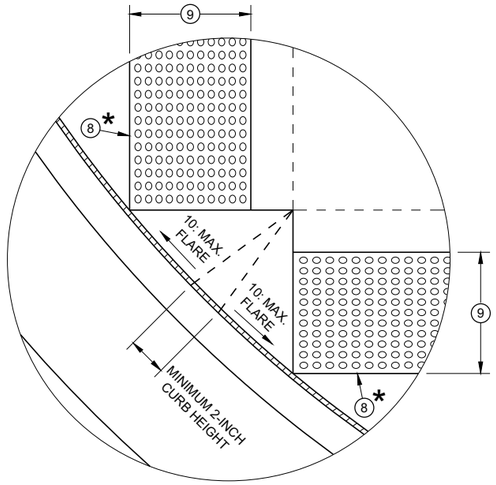
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 1 AND 1-A

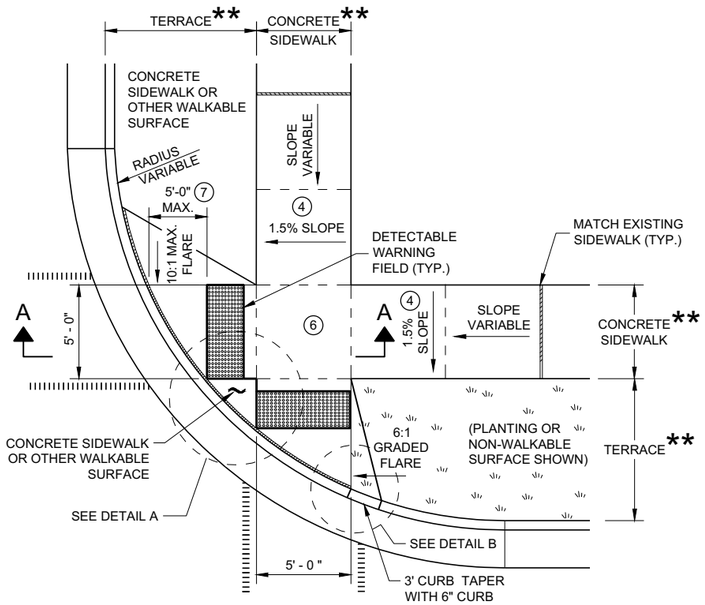
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

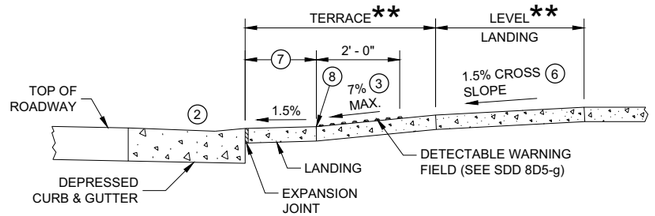
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

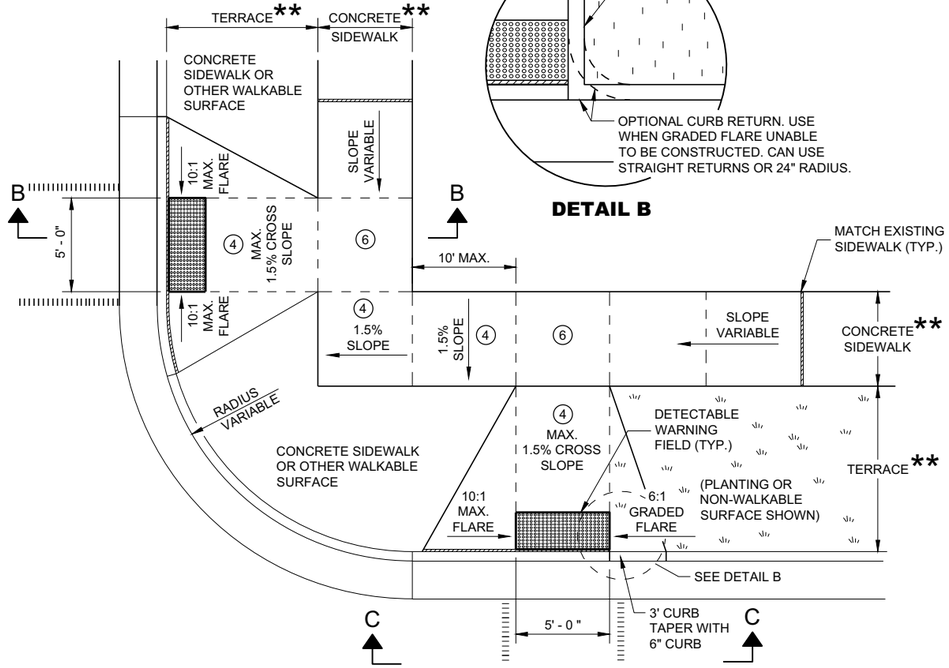
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



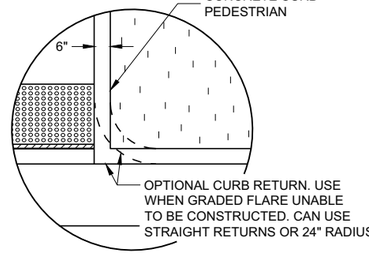
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



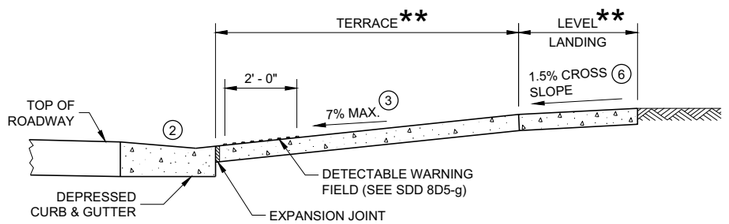
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



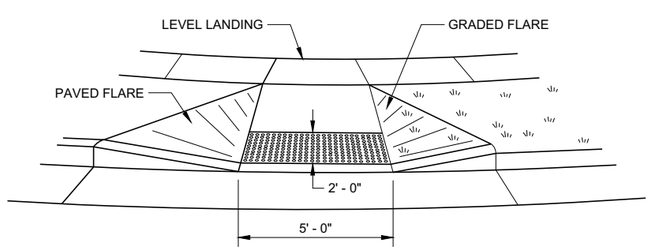
DETAIL B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

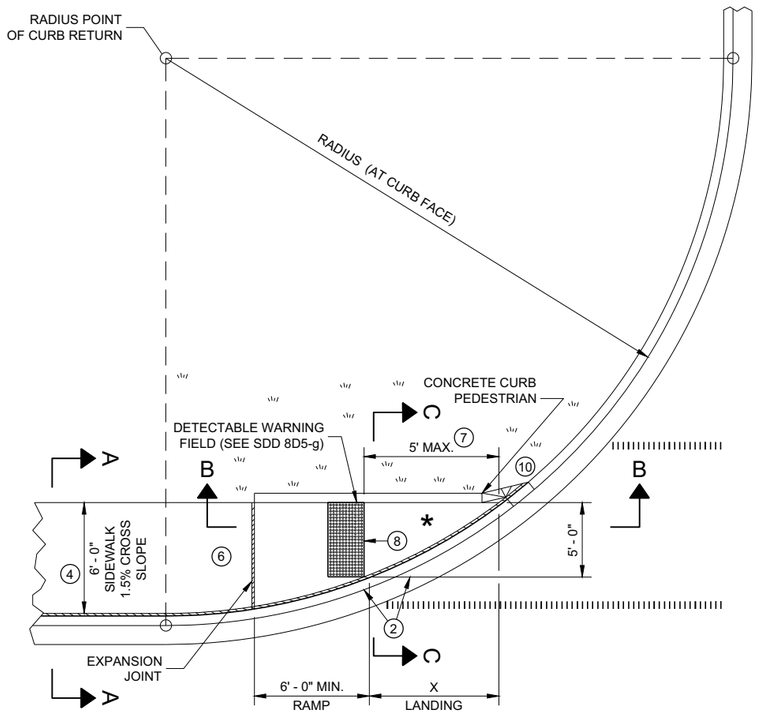
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

6

SDD 08D05 - 20b

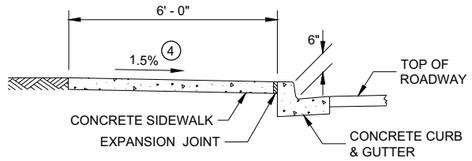


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

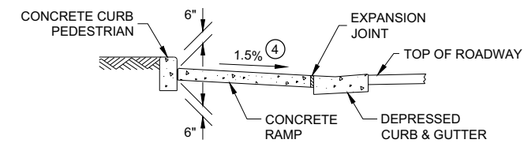
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

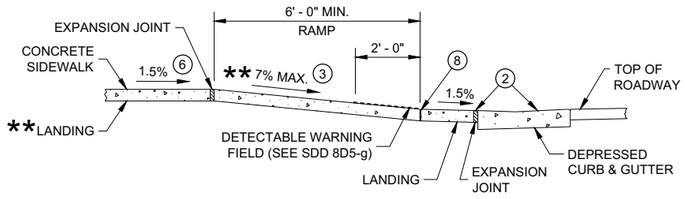
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



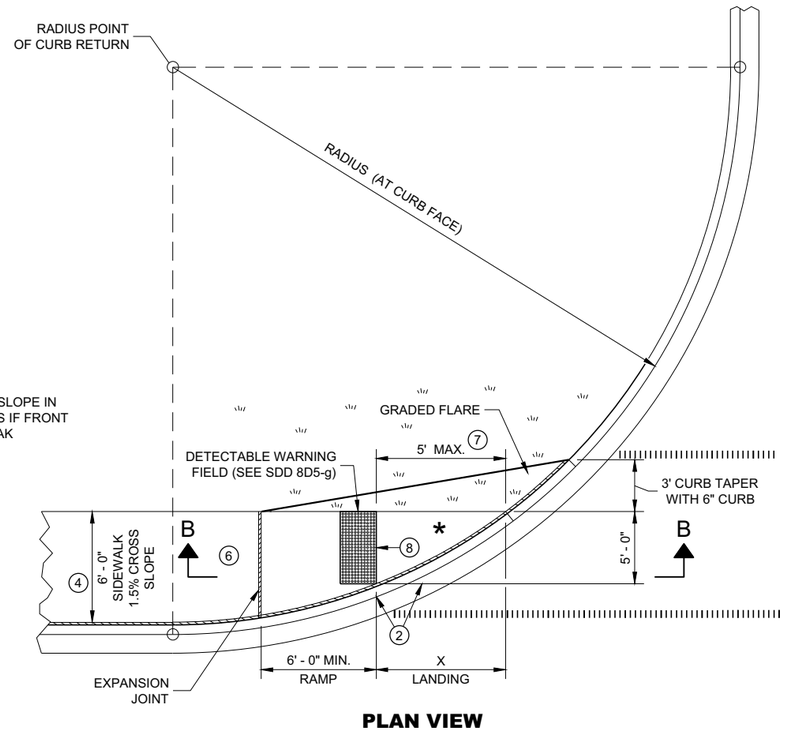
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

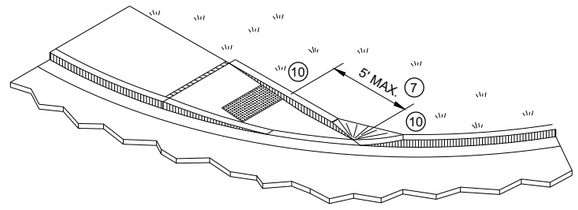
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

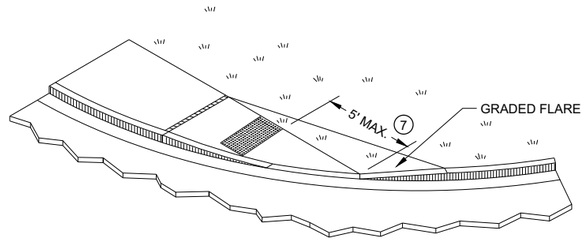


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



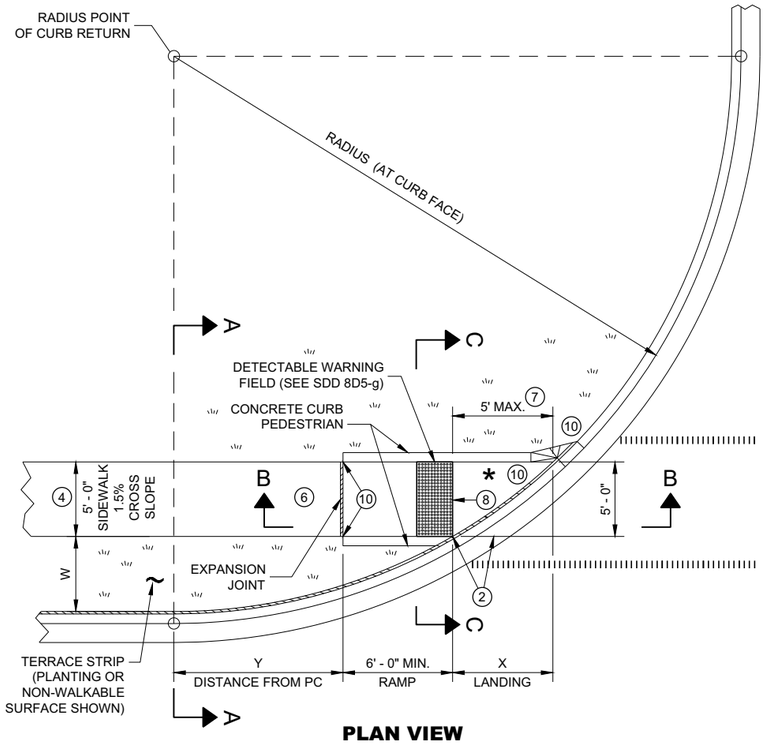
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

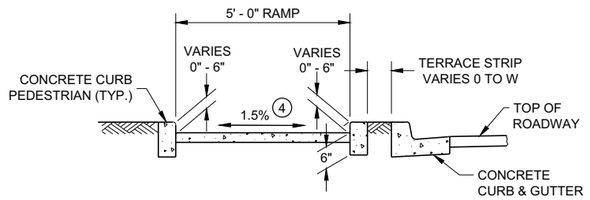


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

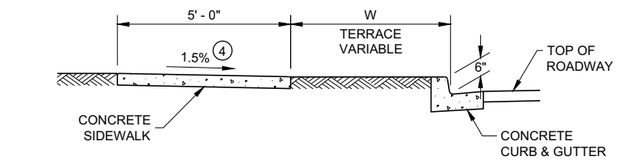
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

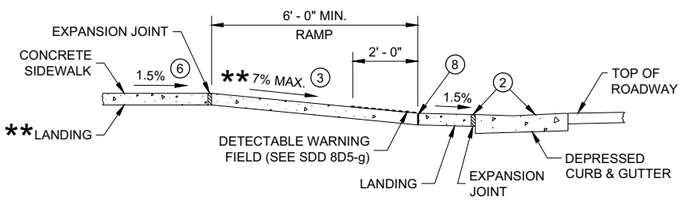
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



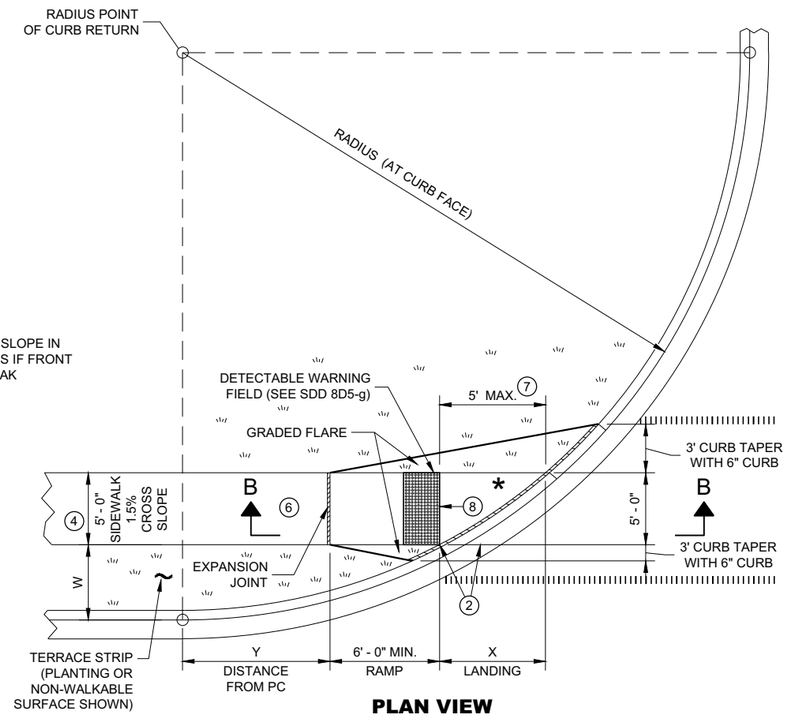
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

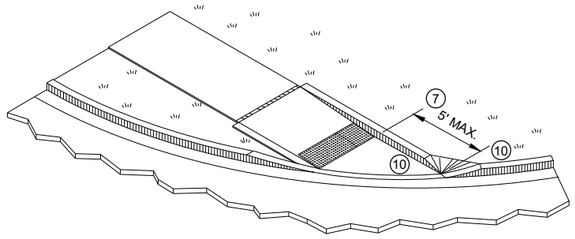
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

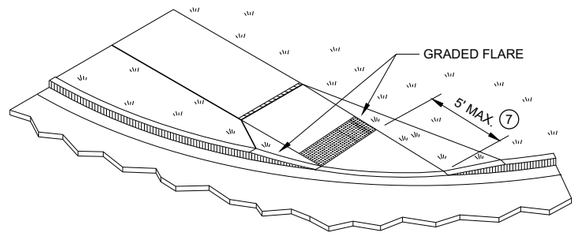


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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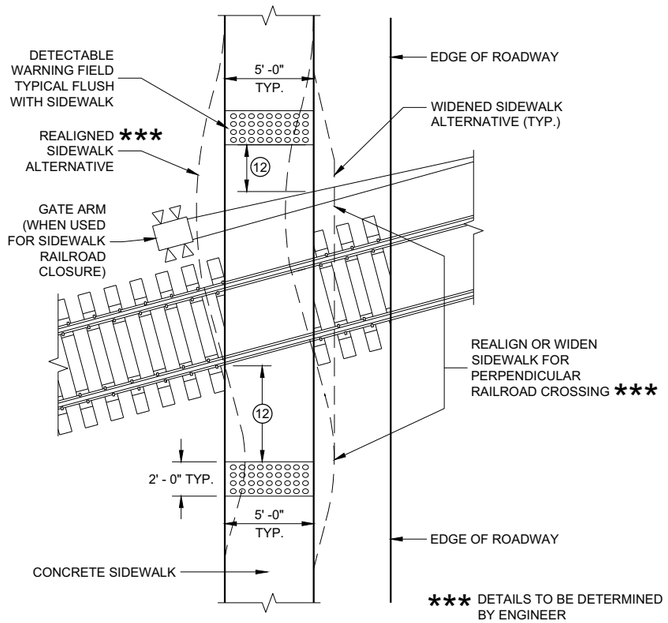
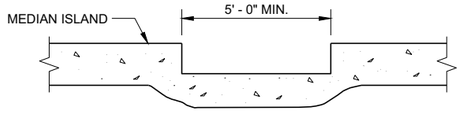
SDD 08D05 - 20d

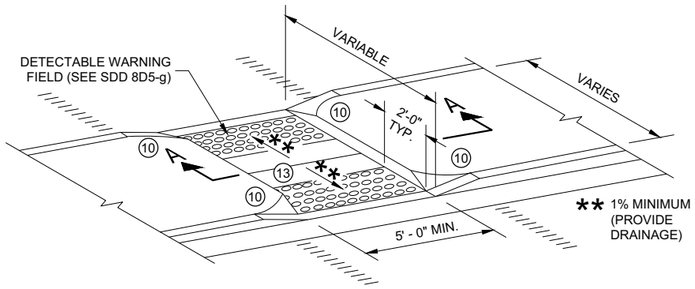


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

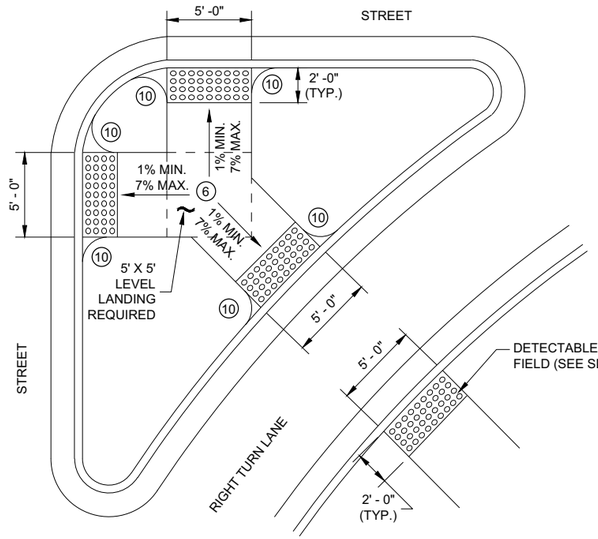
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

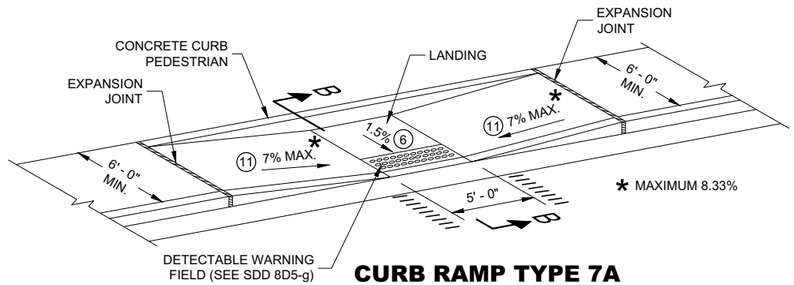
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

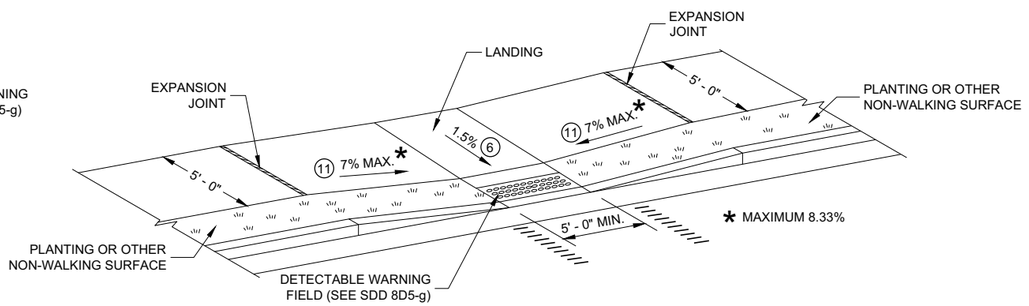
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

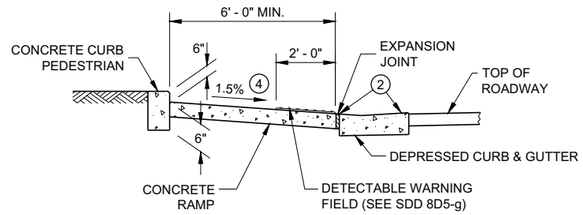
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
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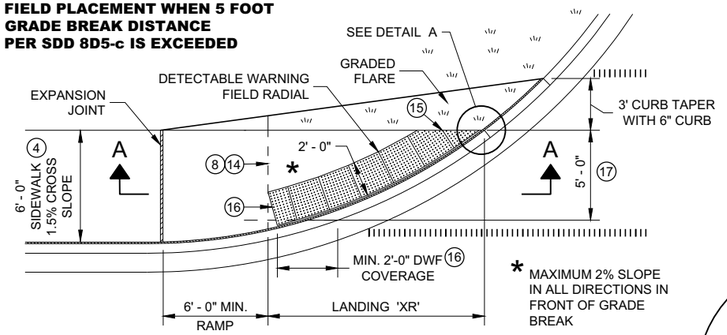
SDD 08D05 - 20e

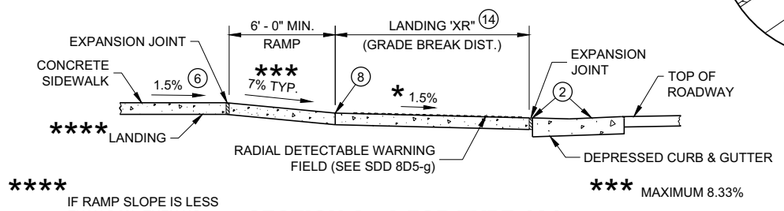
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

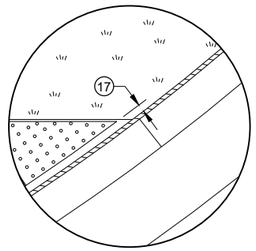
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

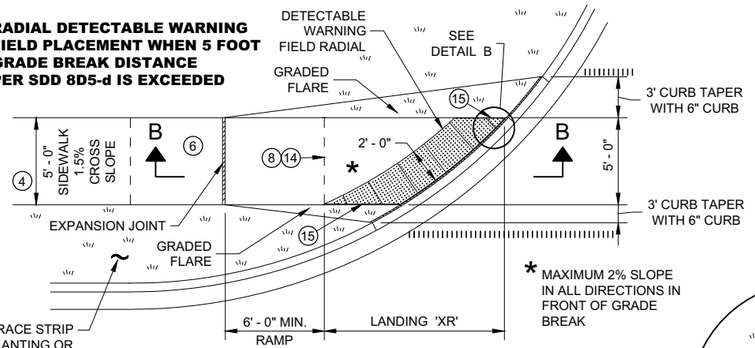
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

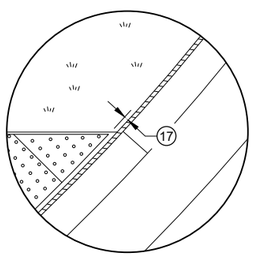
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



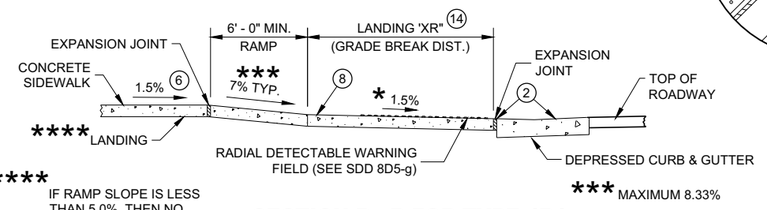
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

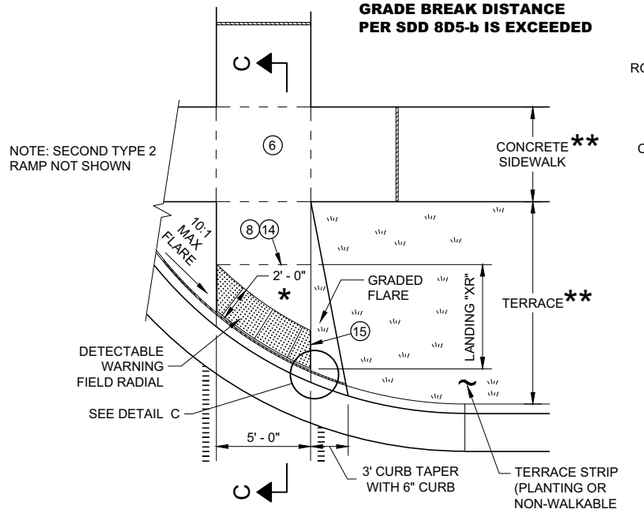


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

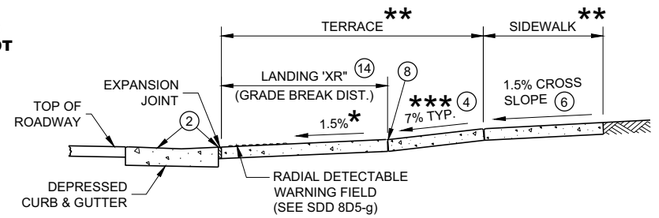


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

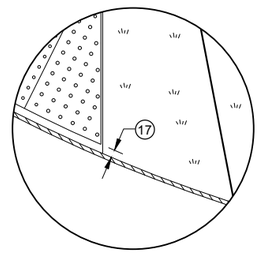


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
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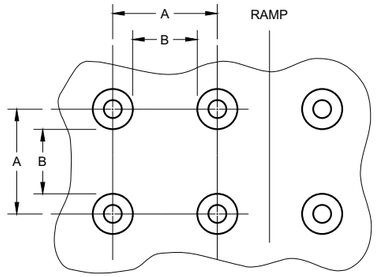
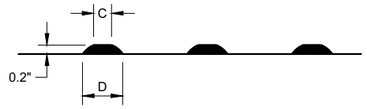
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

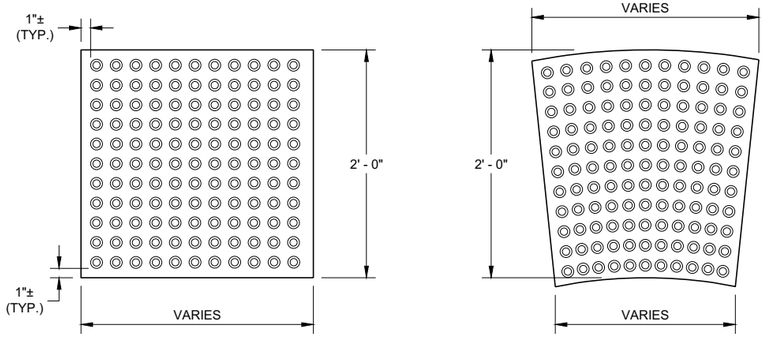


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

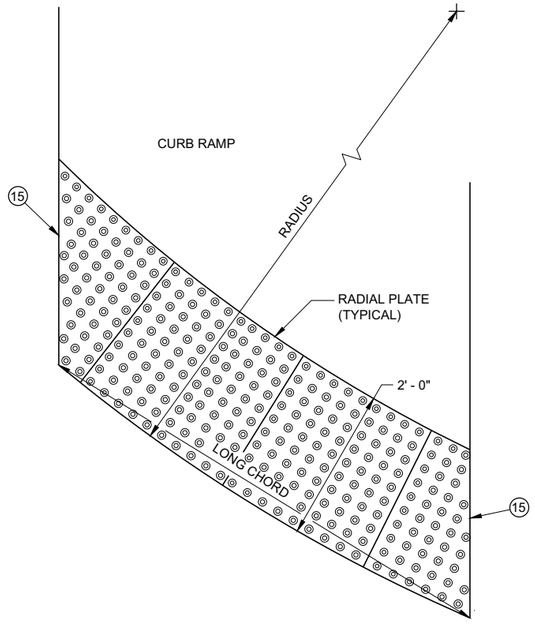
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

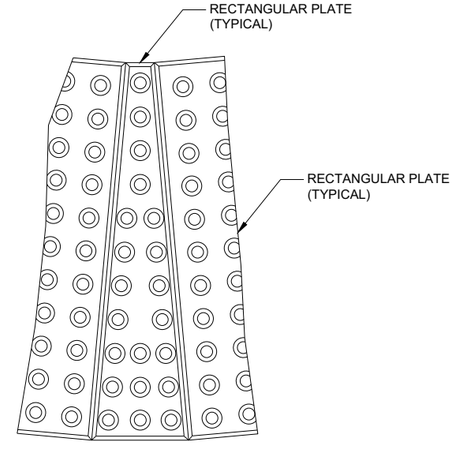
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

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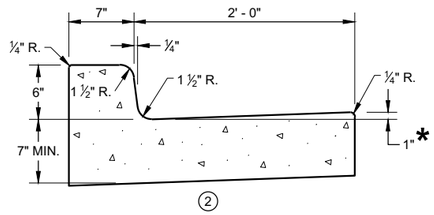
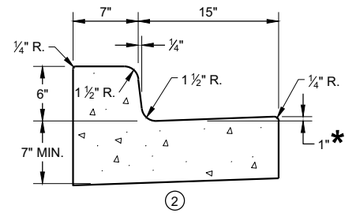
SDD 08D05 - 20g

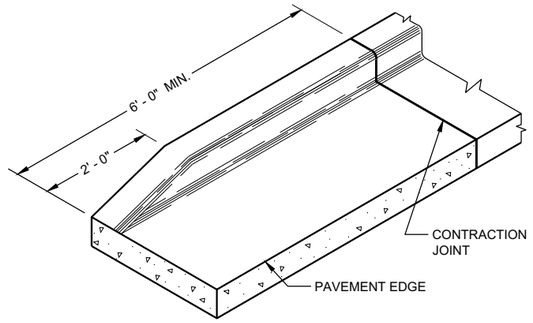


CONCRETE CURB AND GUTTER 31" ①

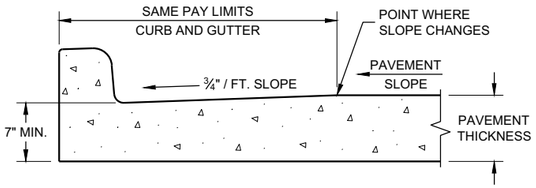
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



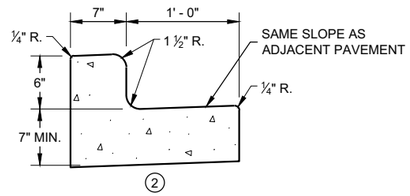
CONCRETE CURB AND GUTTER 22" ①



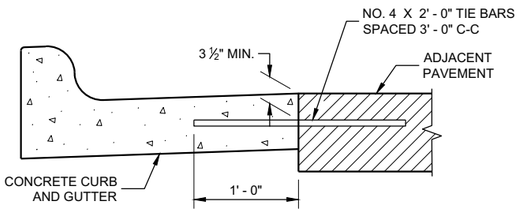
END SECTIONCURB AND GUTTER



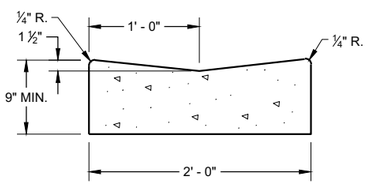
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



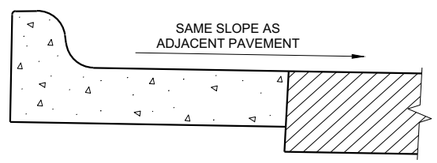
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

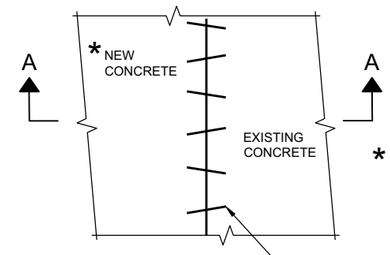
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

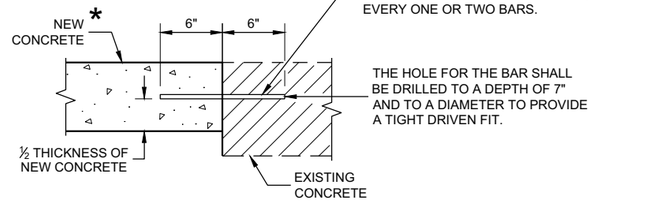
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

340

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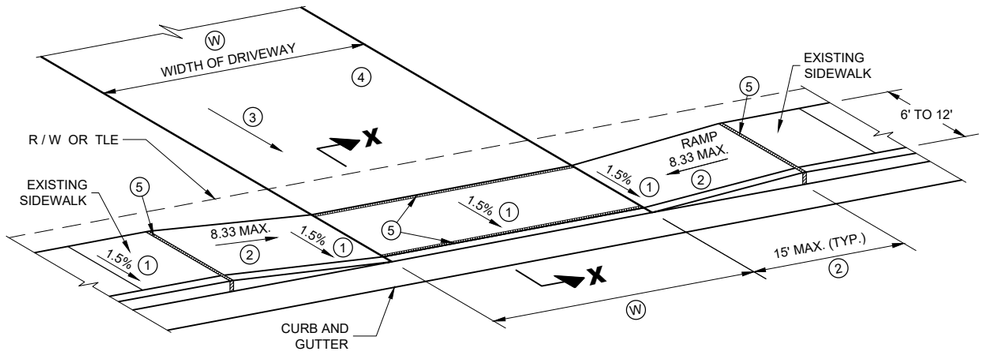
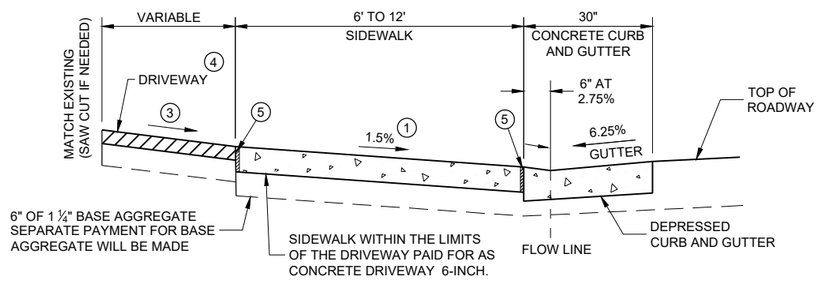
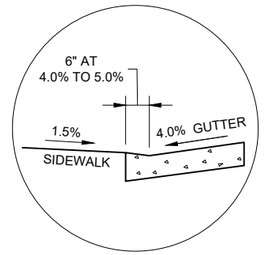
SDD 08D16 - 11



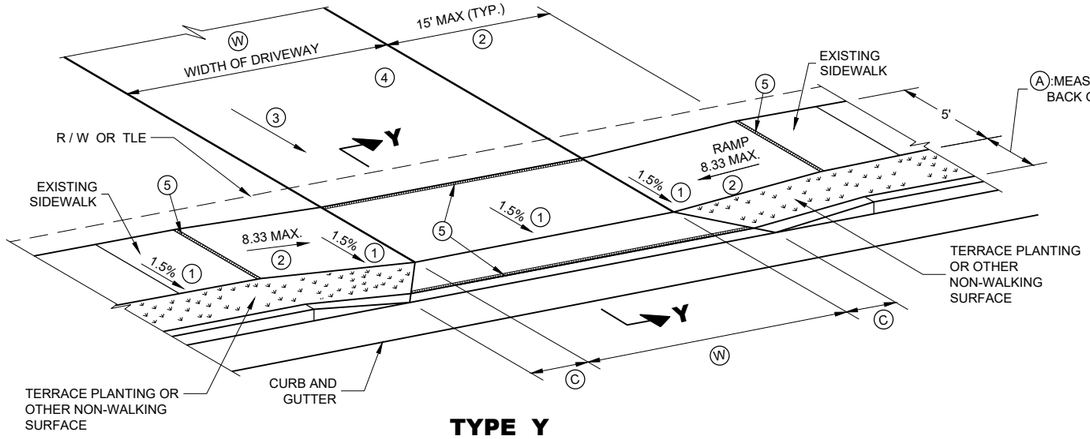
TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



SECTION X - X
4% GUTTER SLOPE



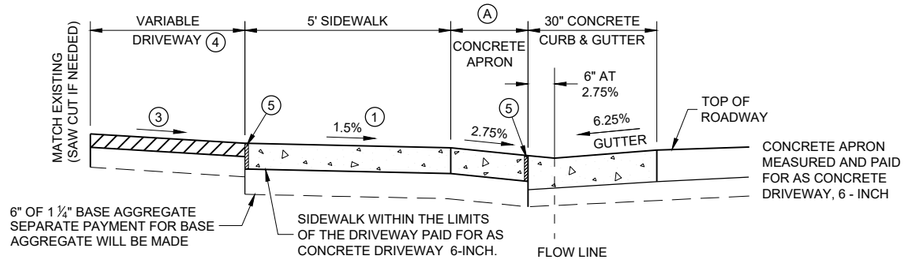
TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

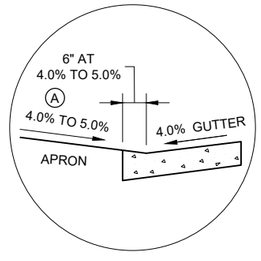
16' MIN. - 35' MAX. COMMERCIAL (CE)

TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

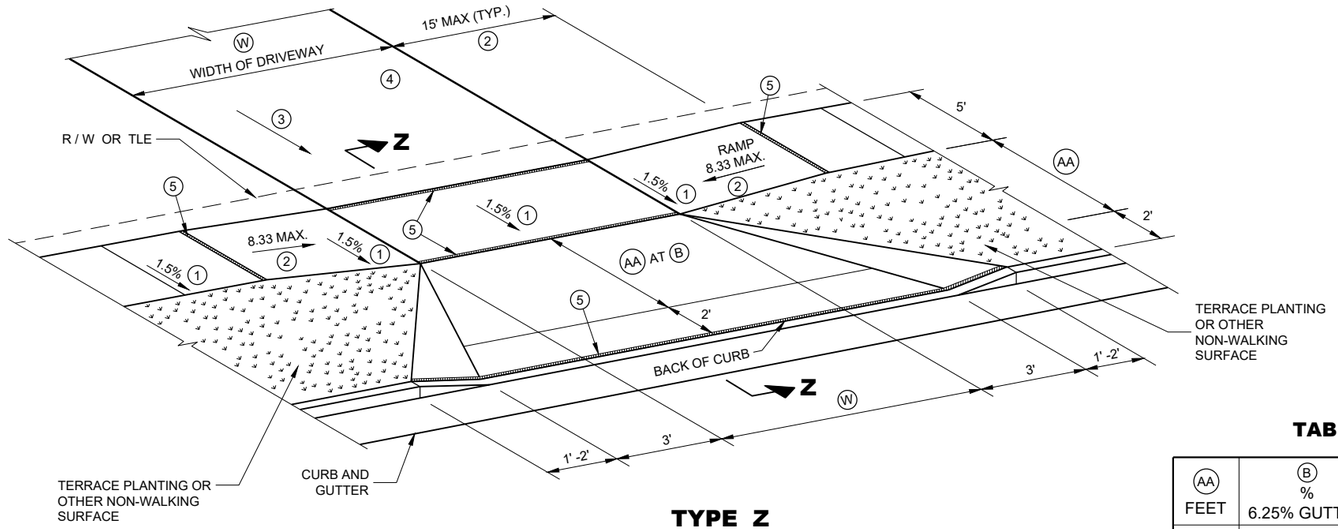
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D18 - 03

SDD 08D18 - 03



TYPE Z
SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

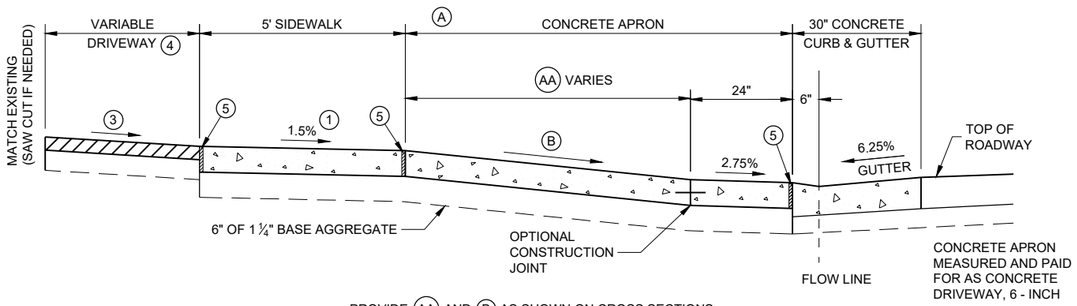
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

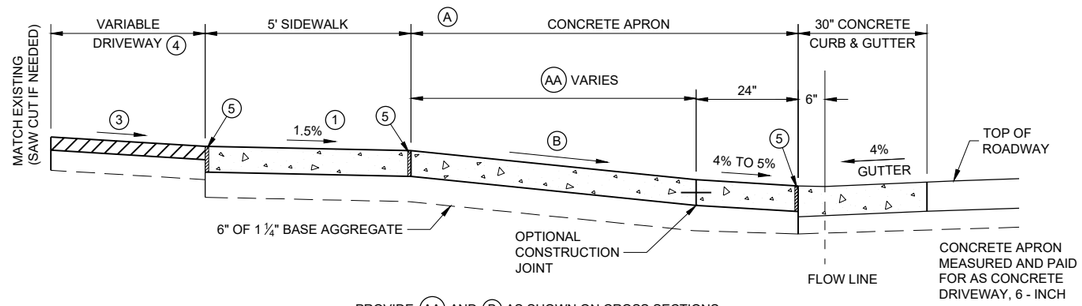
(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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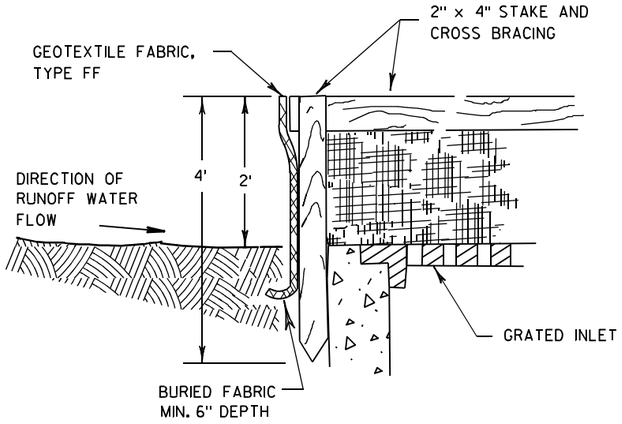
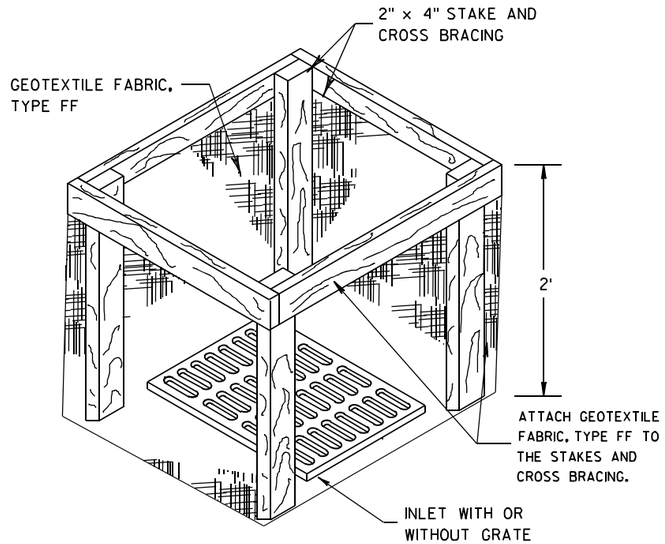
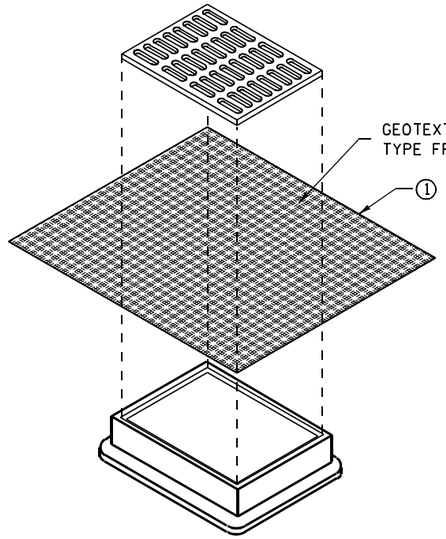
SDD 08D19 - 03



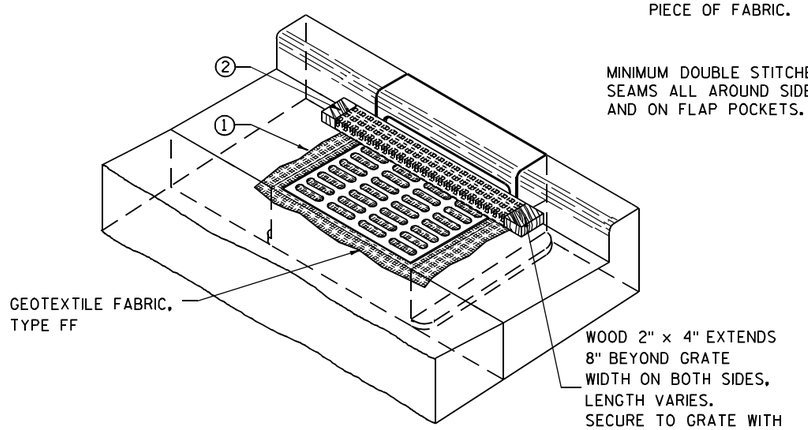


INLET PROTECTION, TYPE A

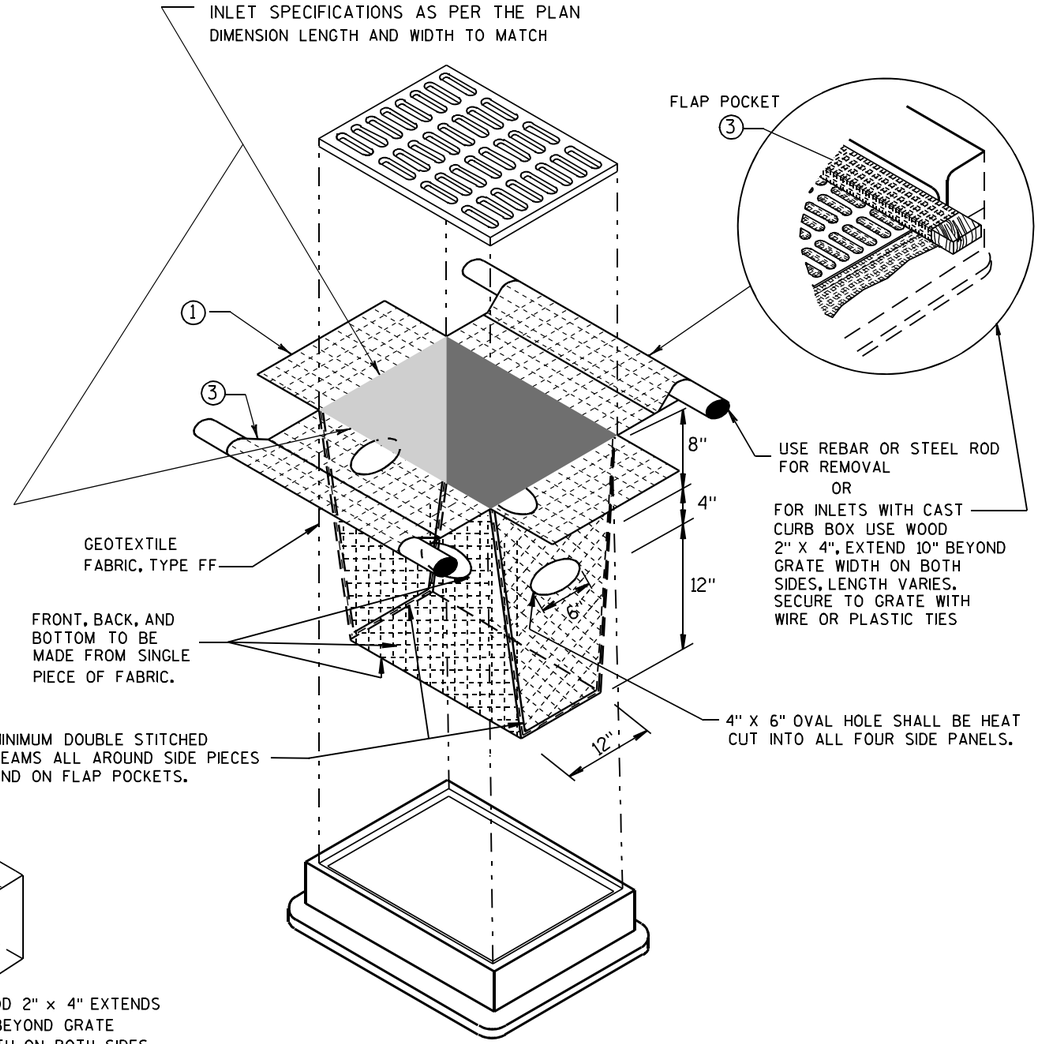


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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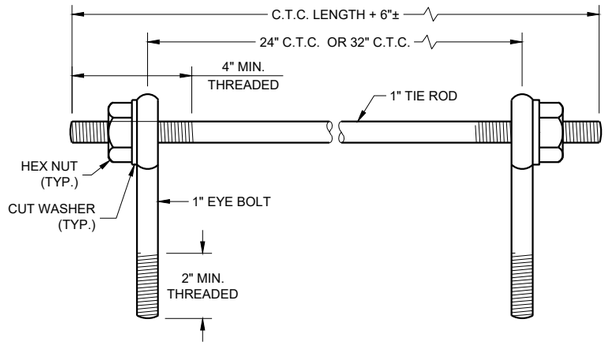
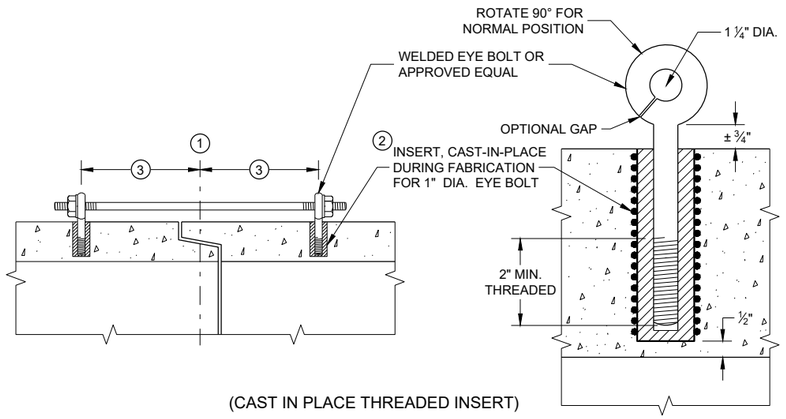
S.D.D. 8 E 10-2



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

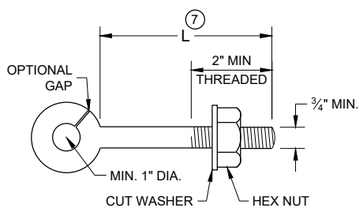
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

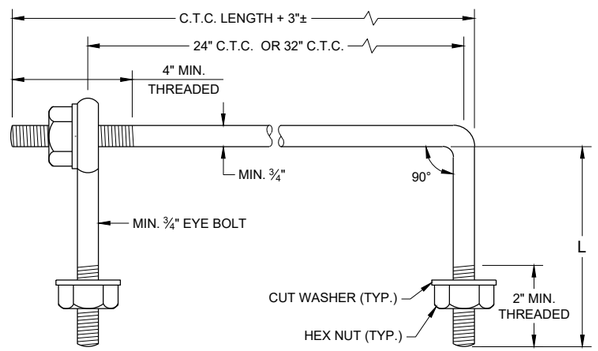
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

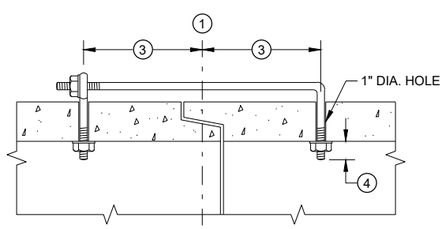


EYE BOLT (7)

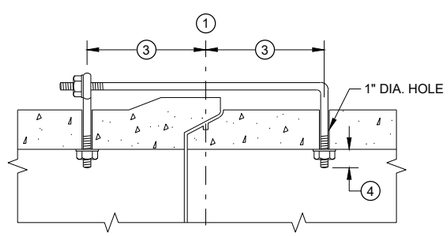
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

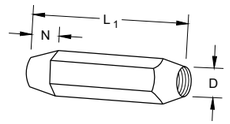
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



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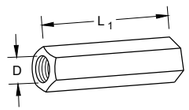
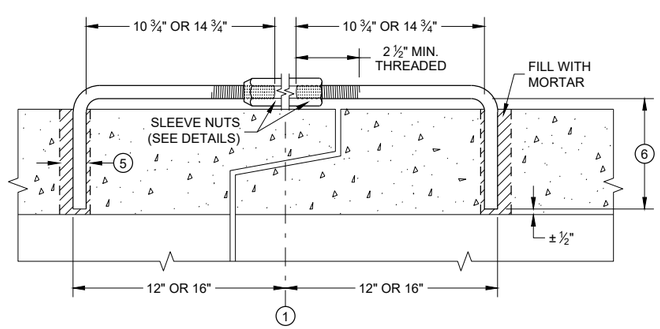


PLAIN

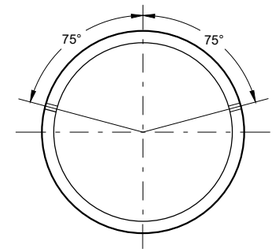
RIGHT AND LEFT THREADS

SLEEVE NUTS



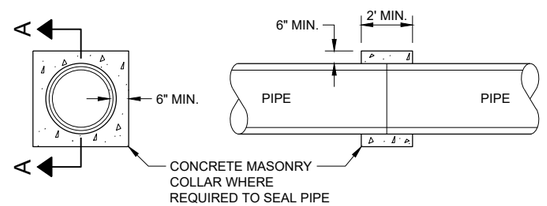
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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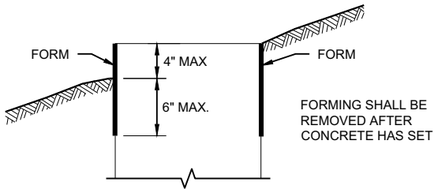
SDD 08F04 - 08

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

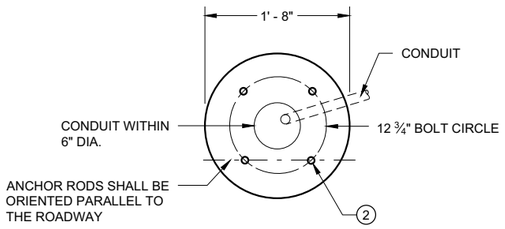
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

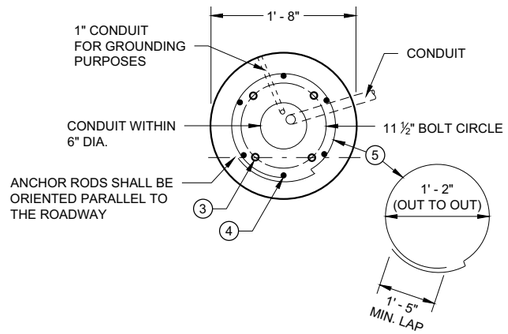
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

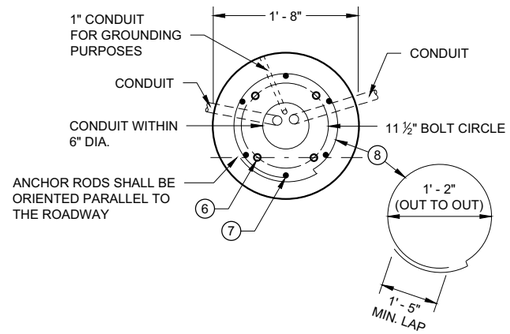
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

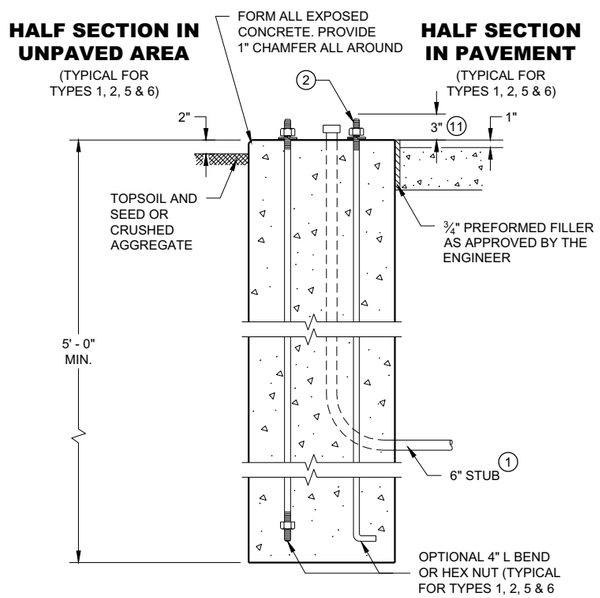
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

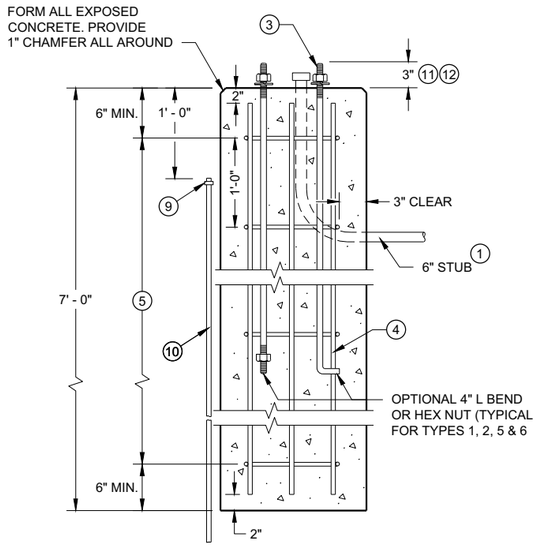




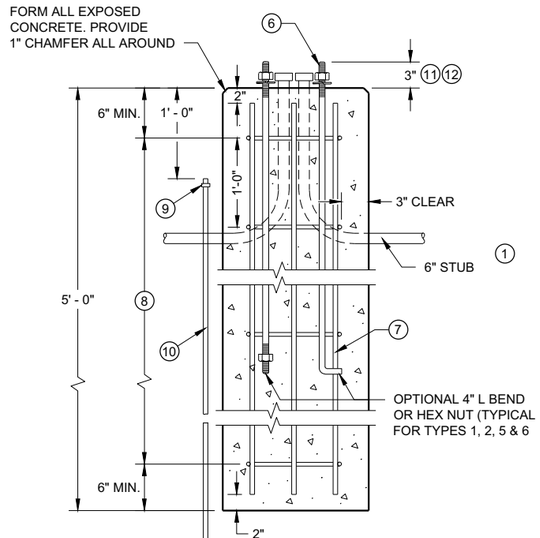




TYPE 1



TYPE 2



TYPE 5 & 6

1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 345

FHWA

6

SDD 09C02 - 09

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

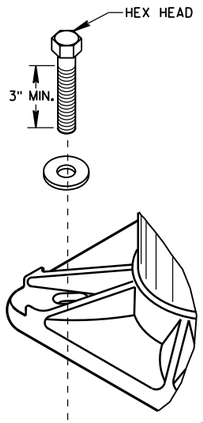
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

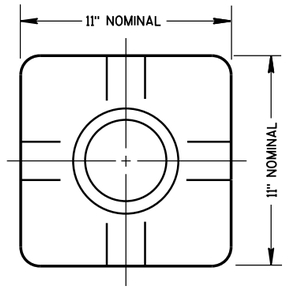
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

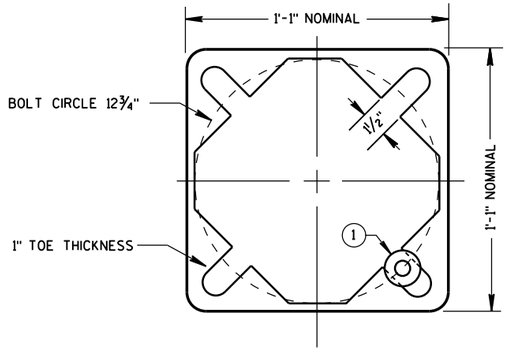
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

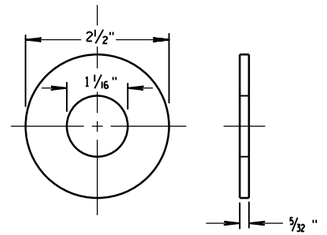




TOP VIEW
(PEDESTAL BASE)

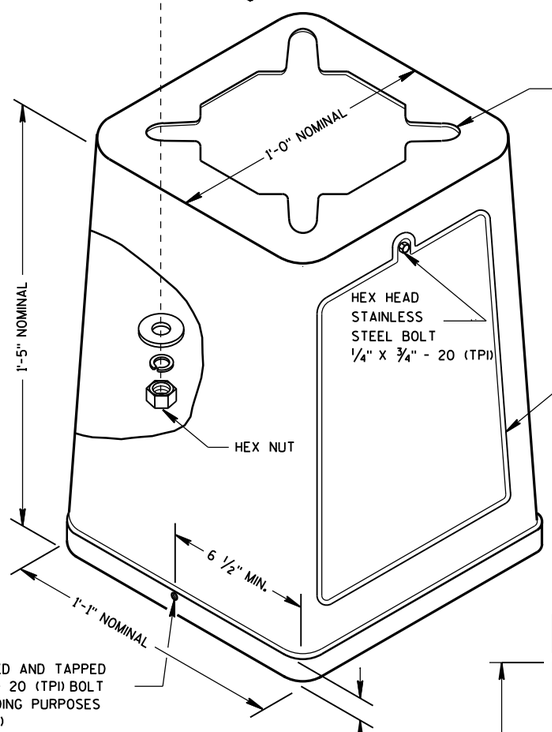


BOTTOM VIEW
(PEDESTAL BASE)

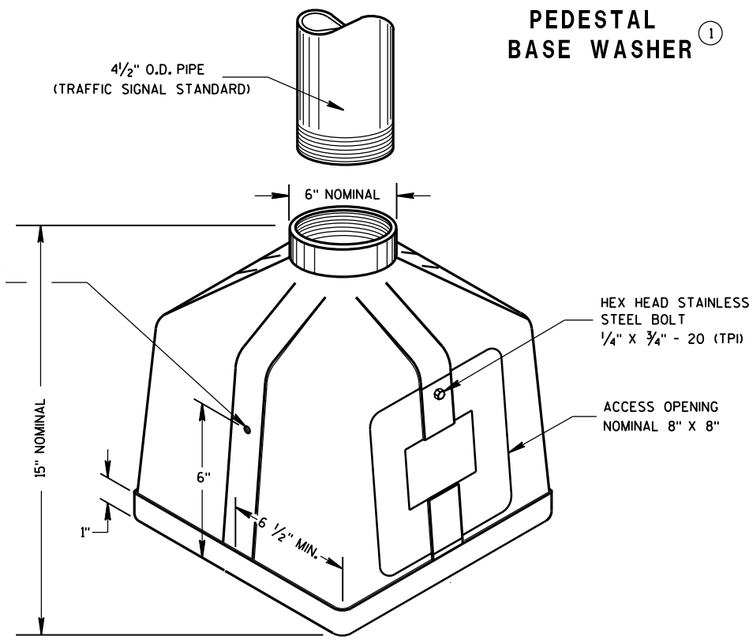


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

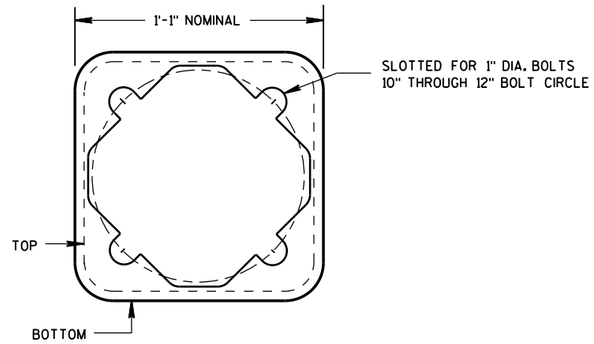
PEDESTAL BASE WASHER (1)



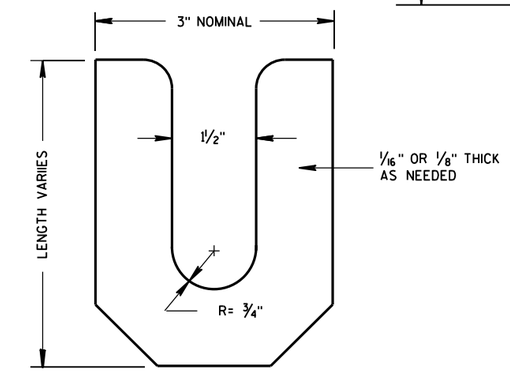
ISOMETRIC VIEW



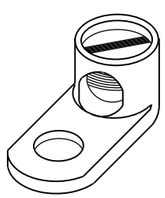
ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

S.D.D. 9 C 3-4

6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

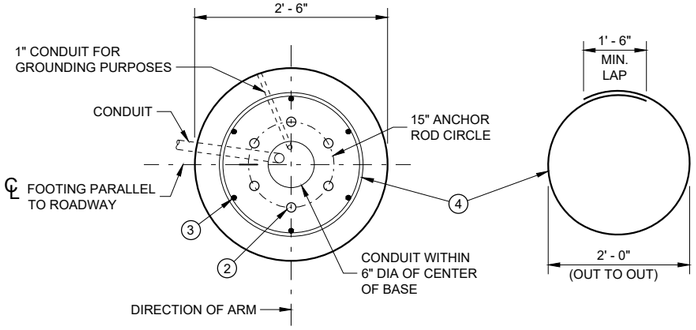
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

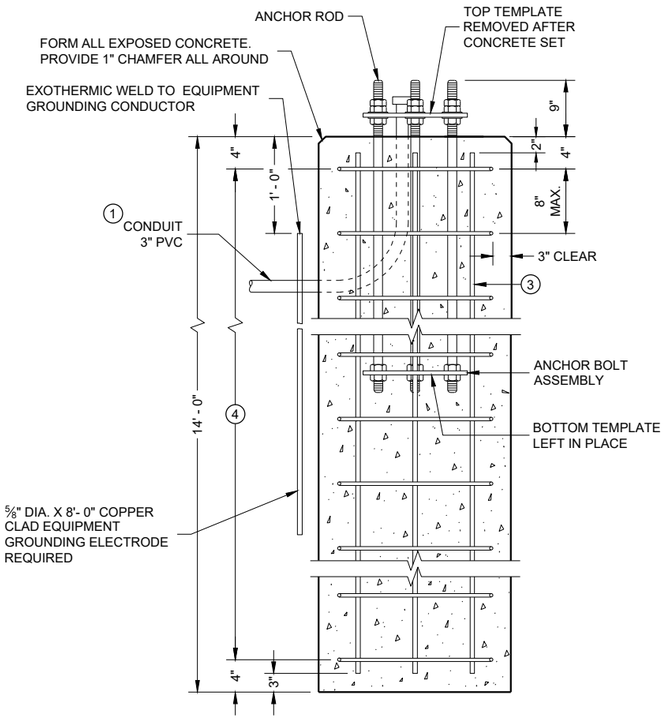
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

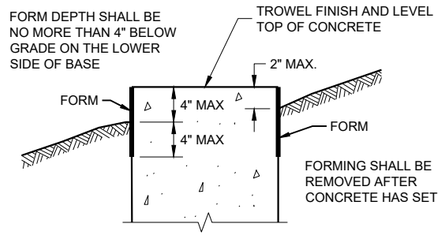
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



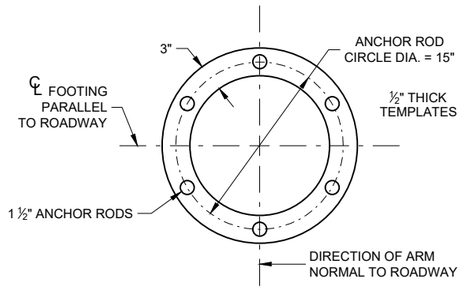


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

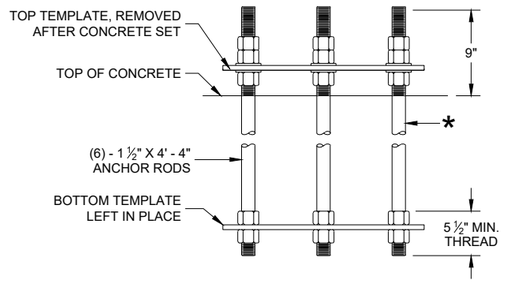
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER

FHWA

6

SDD 09C11 - 10

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOUNDATION AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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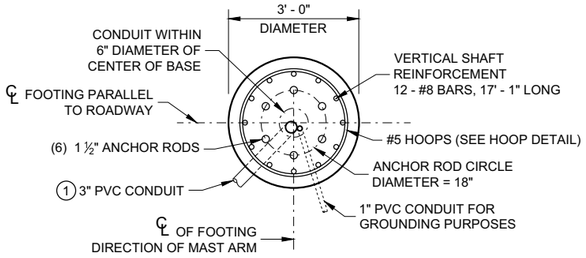
THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

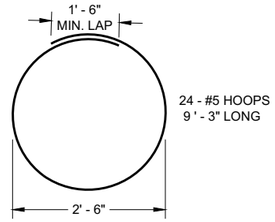
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

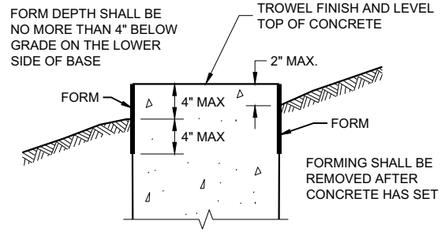
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



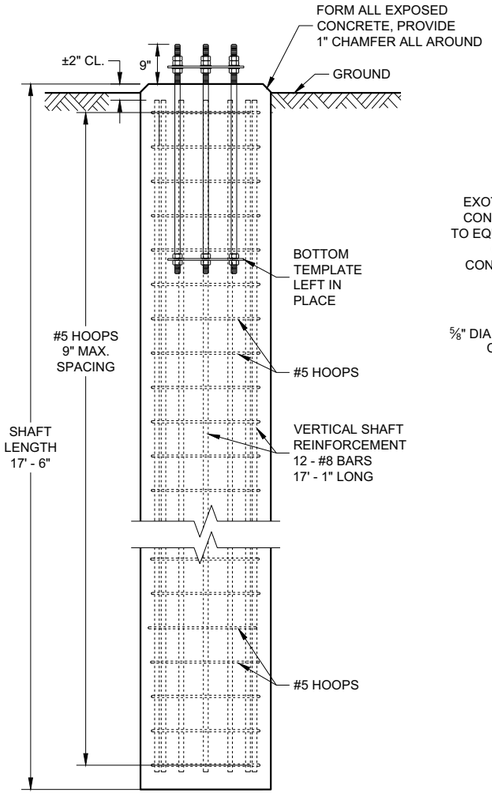
PLAN VIEW



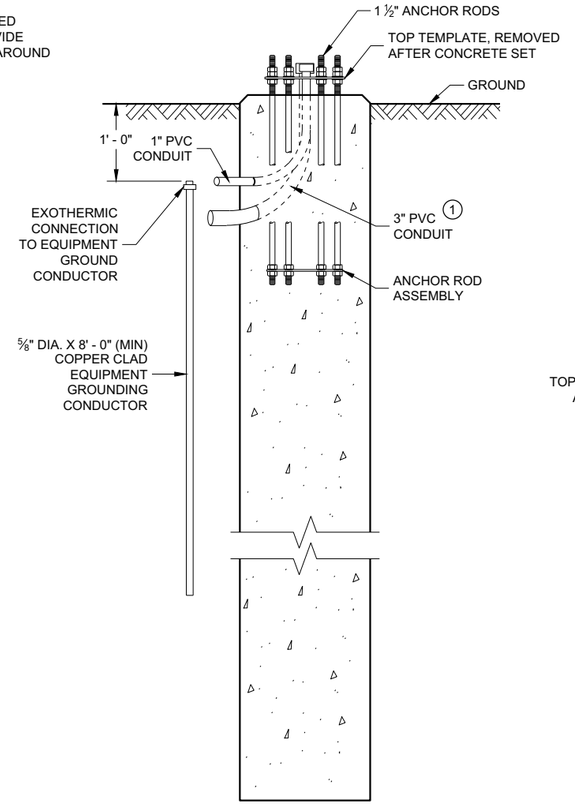
HOOP DETAIL



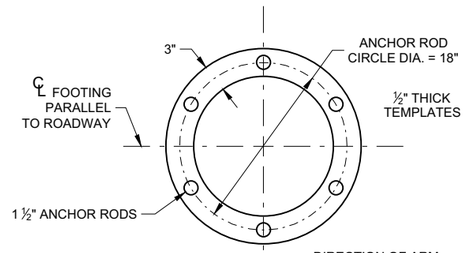
FORMING DETAIL



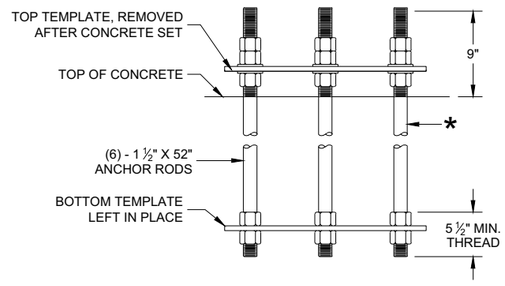
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
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August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
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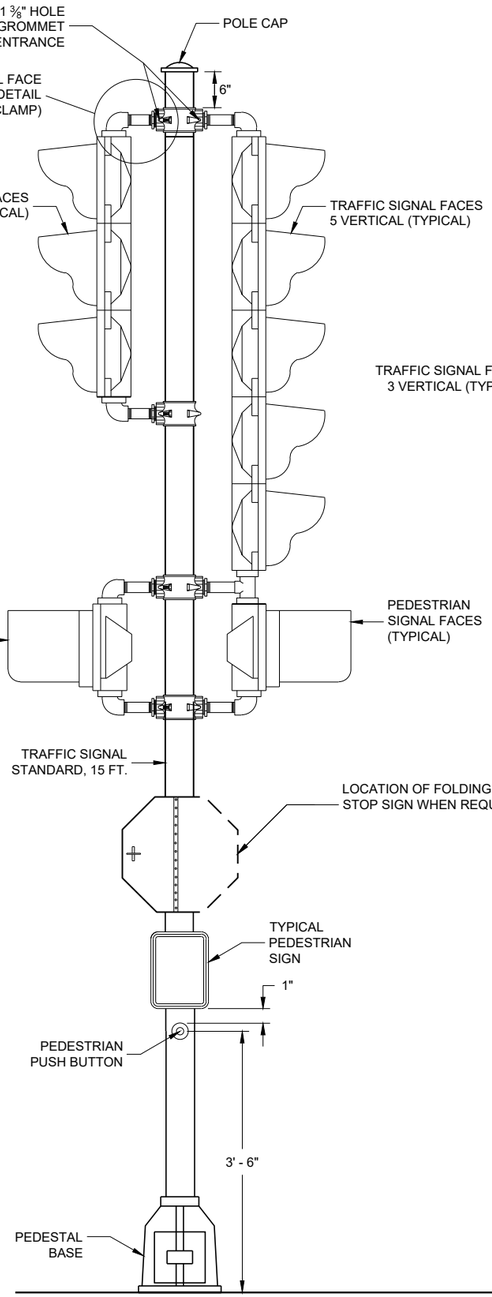
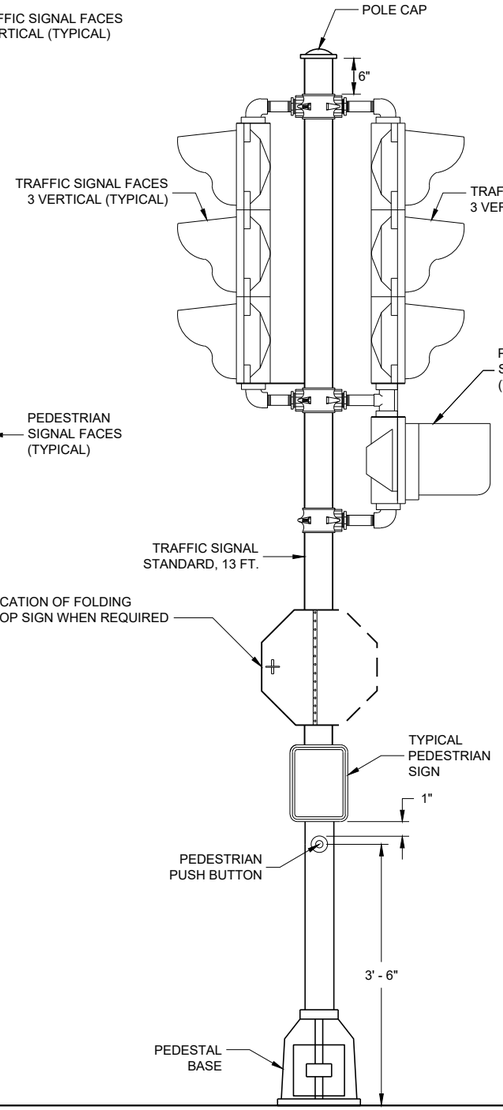
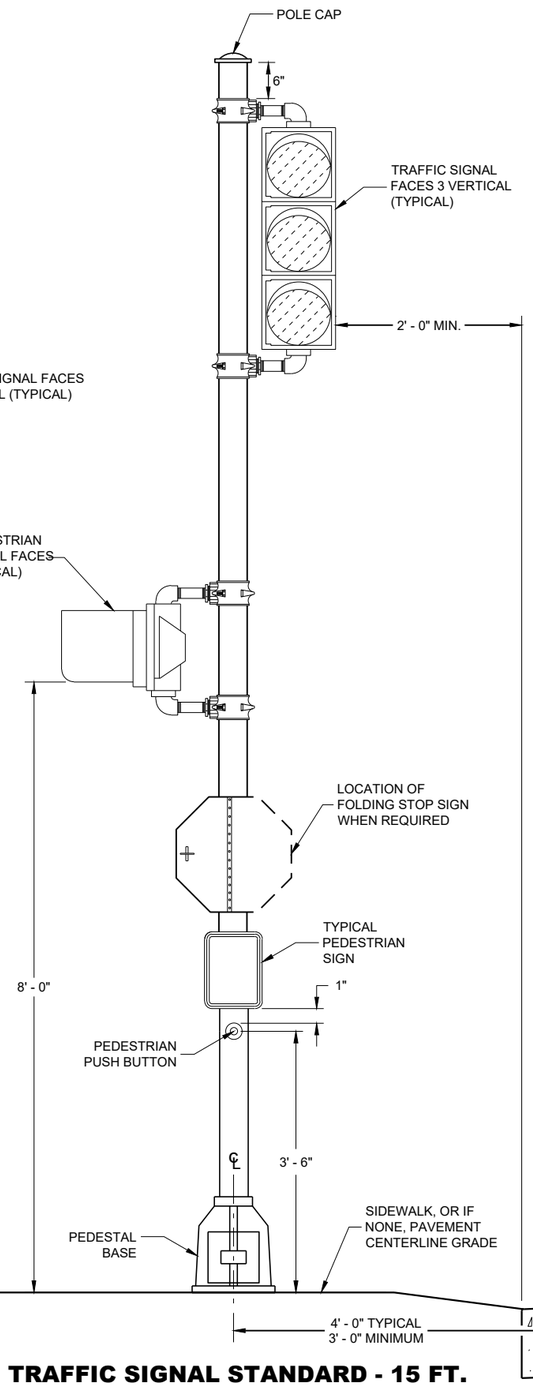


TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL STANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLE CLAMP (AS SHOWN) MOUNTING BRACKETS SHALL BE USED.

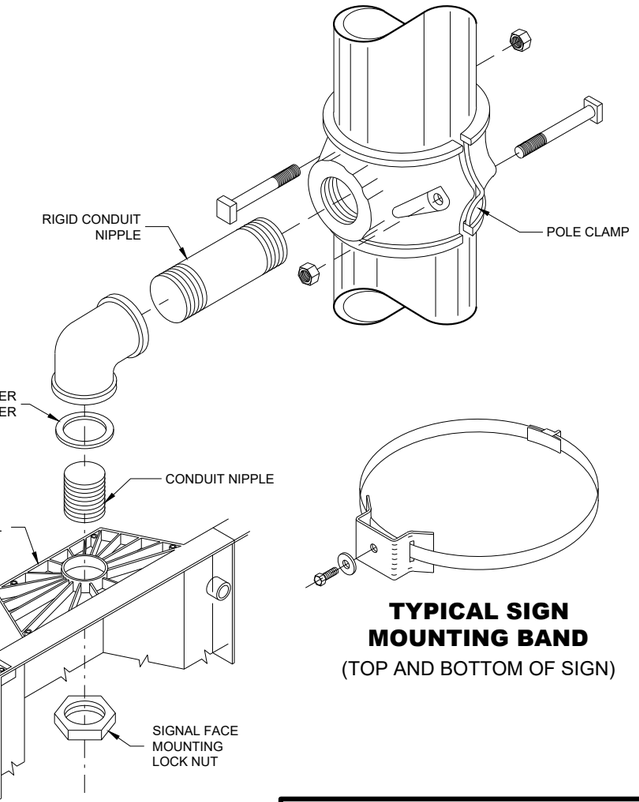
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL (ORNAMENTAL)

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)

TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.

STATE OF WISCONSIN
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2/28/2013
DATE

/S/ Ahmet Demirbilek
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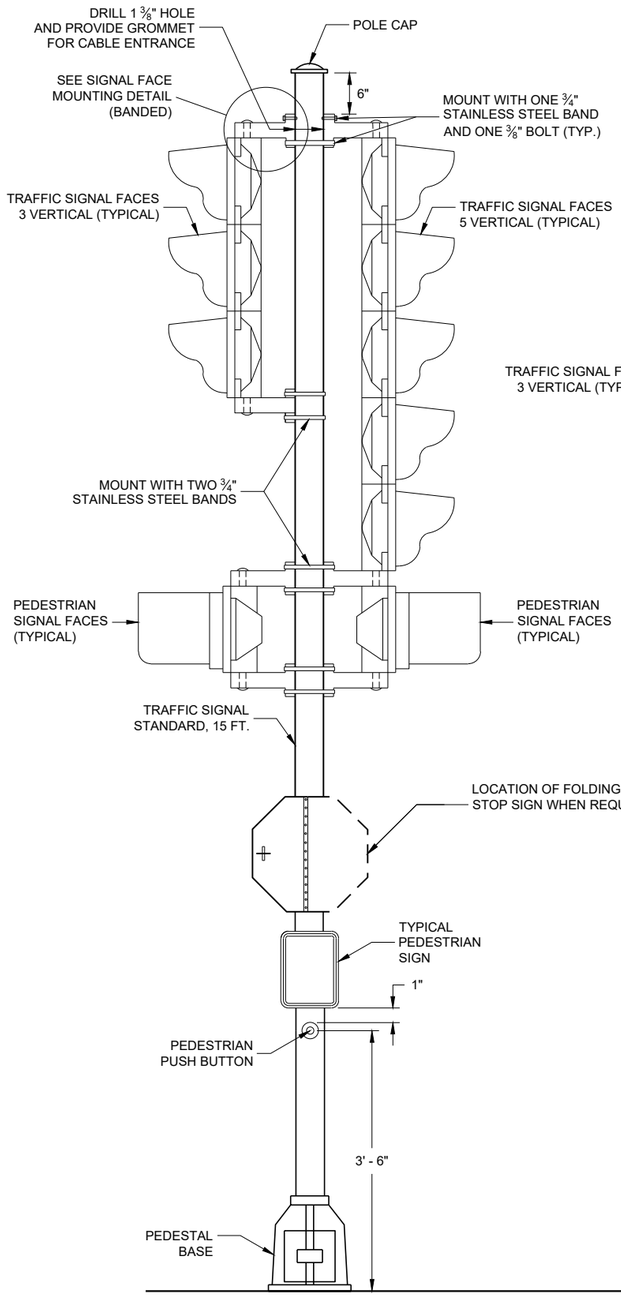
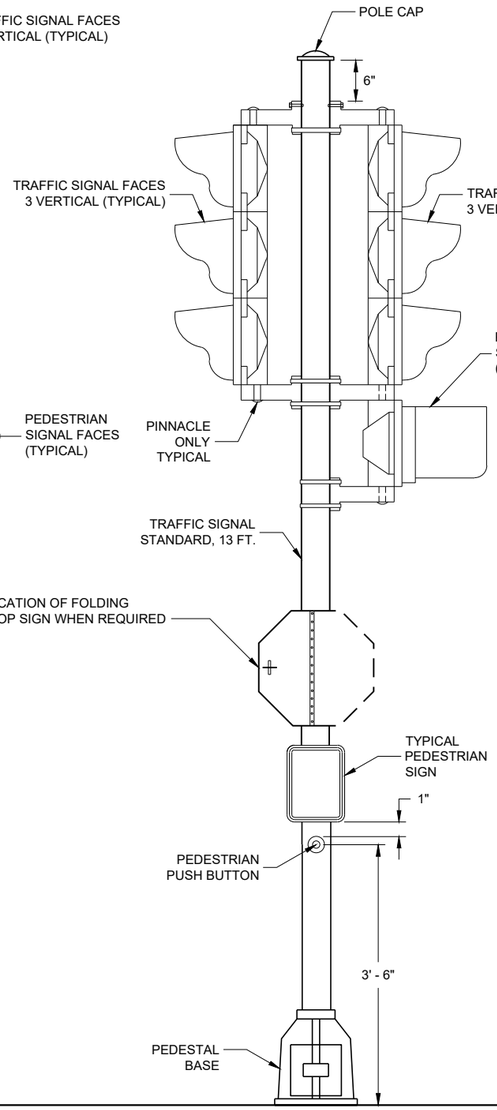
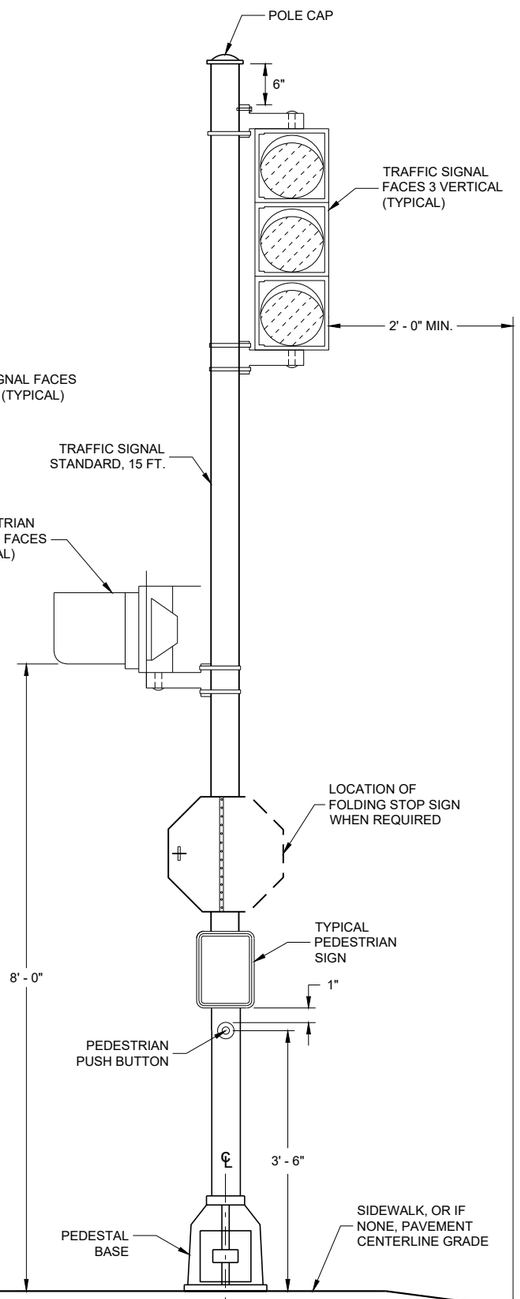


TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

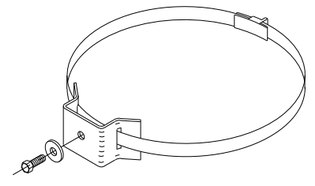
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

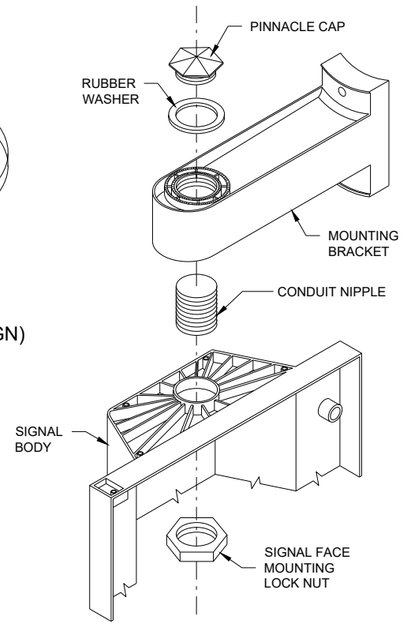
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
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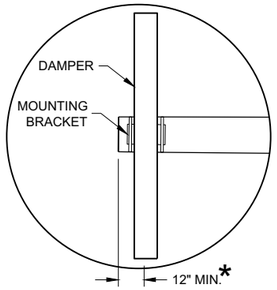
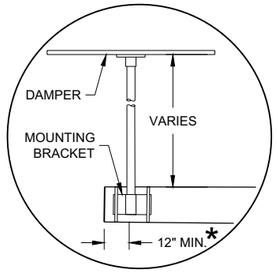
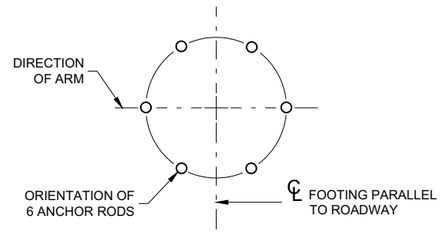


DUMBBELL VIBRATION DAMPER

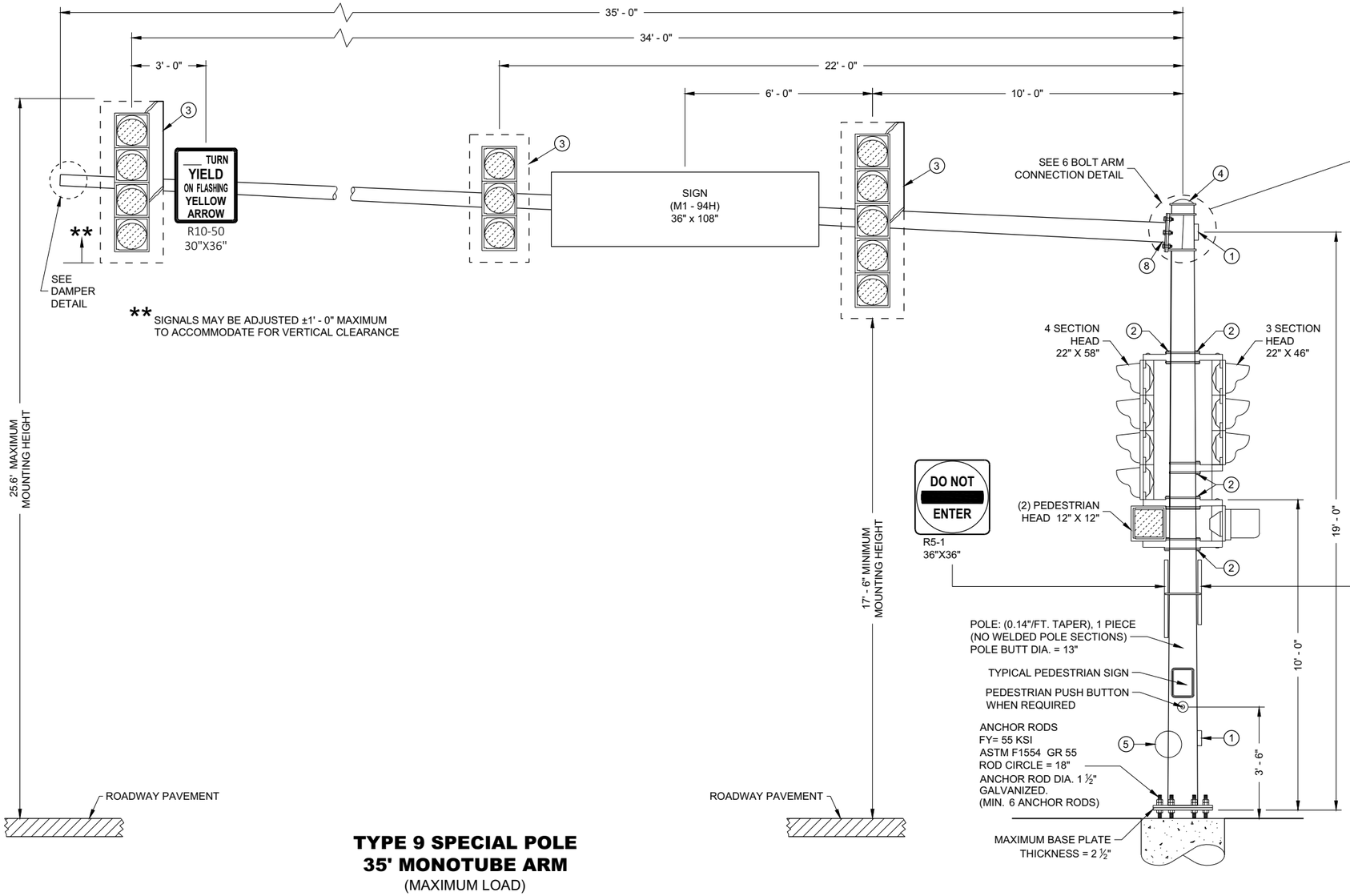


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

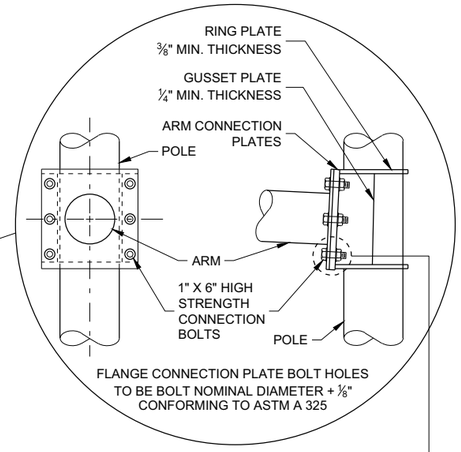


ANCHOR ROD LOCATION

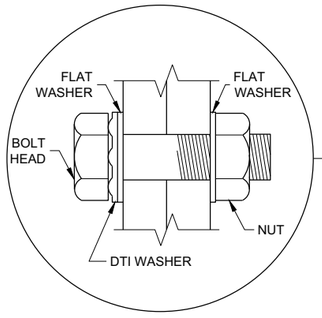


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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August 2020
DATE

/S/ Ahmet Demirbilek
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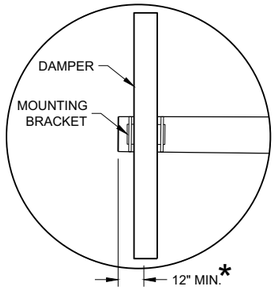
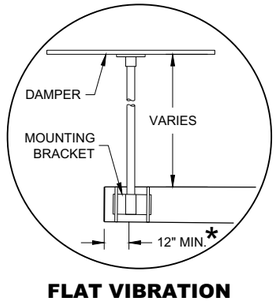
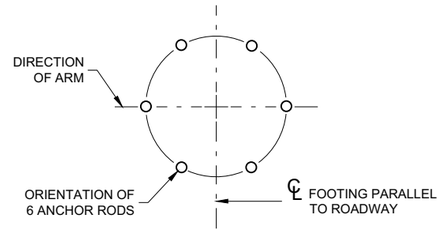


DUMBBELL VIBRATION DAMPER

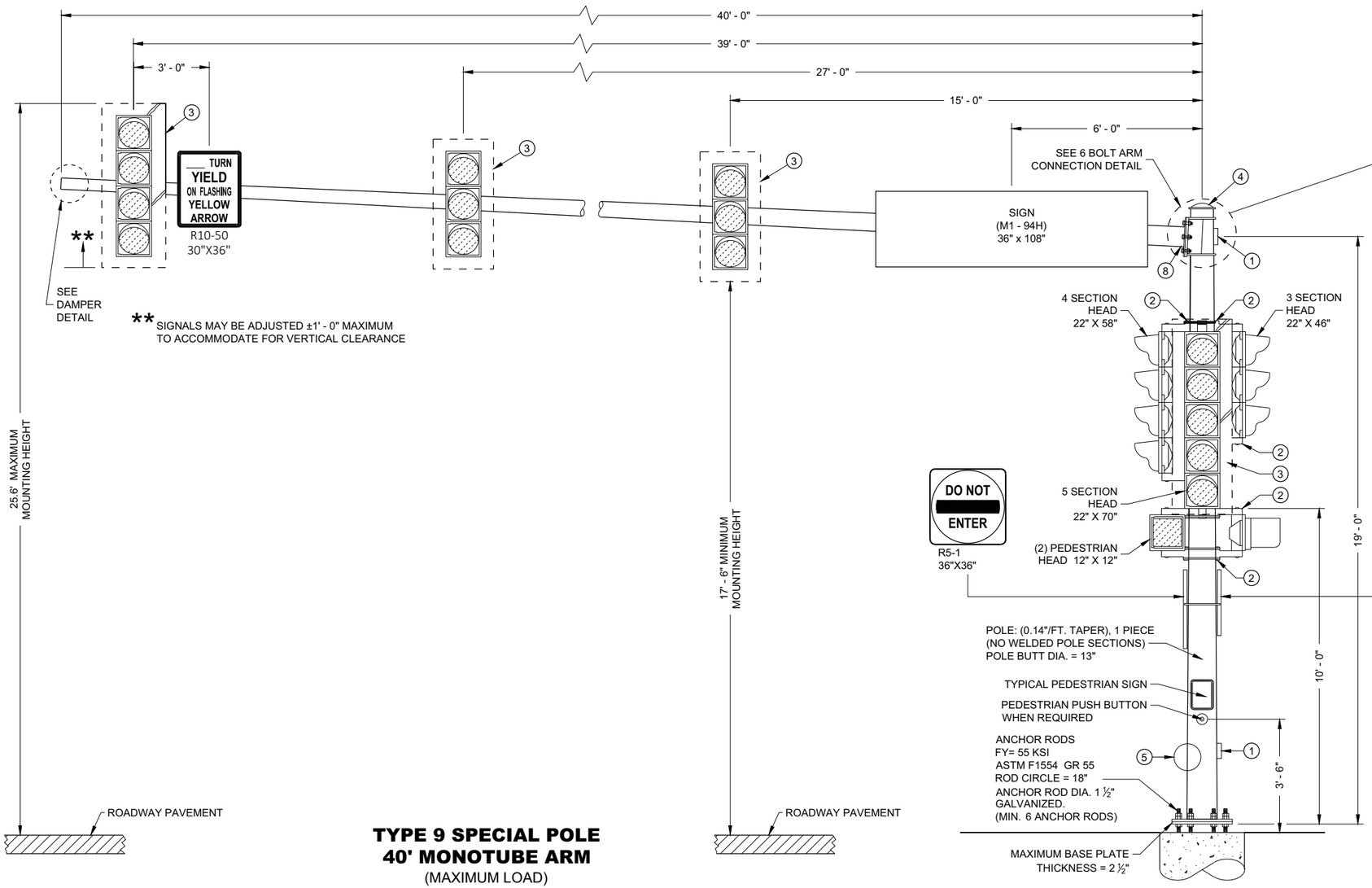


FLAT VIBRATION DAMPER

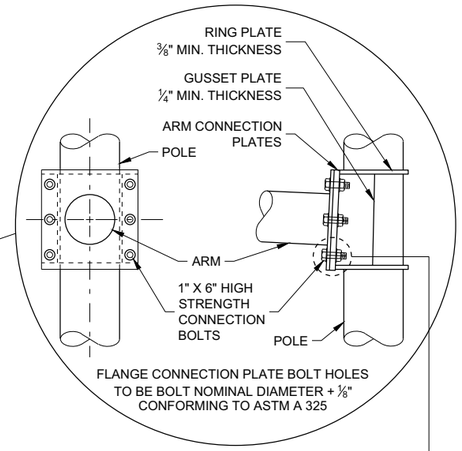
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



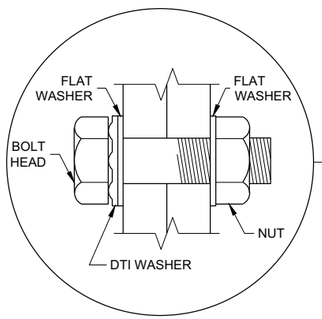
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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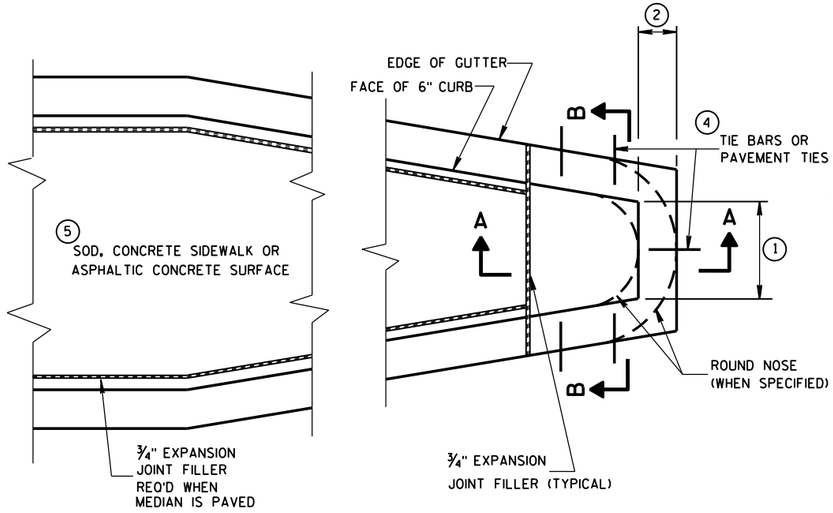
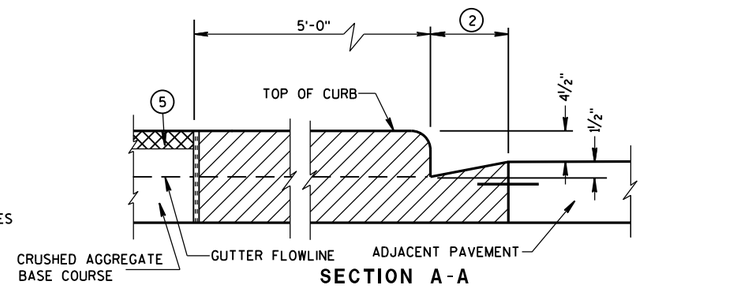
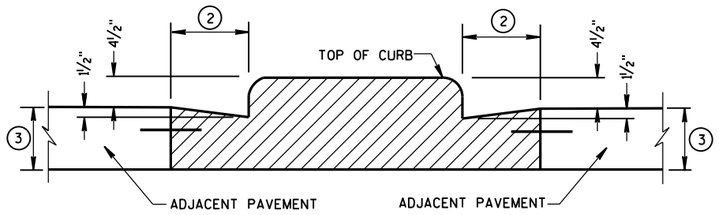




SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

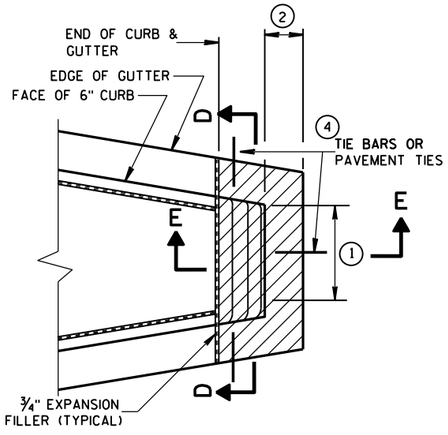
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

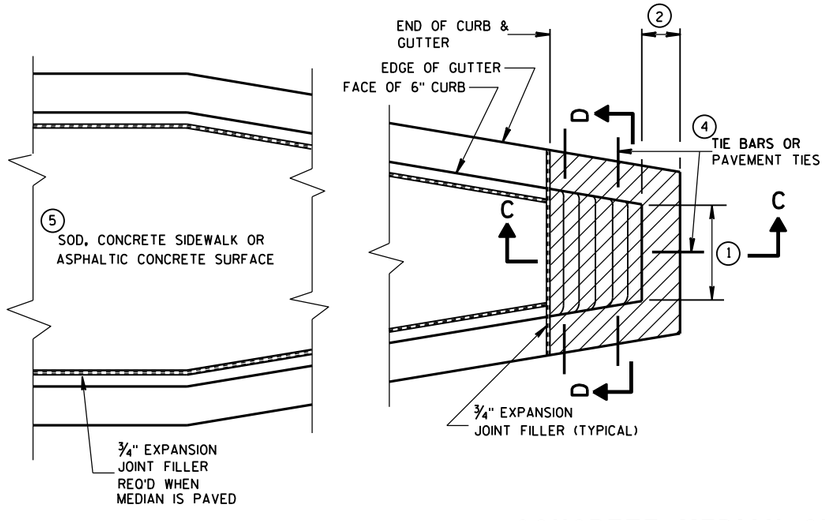
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

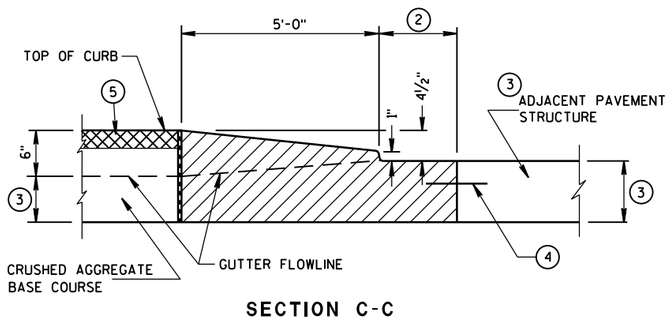
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

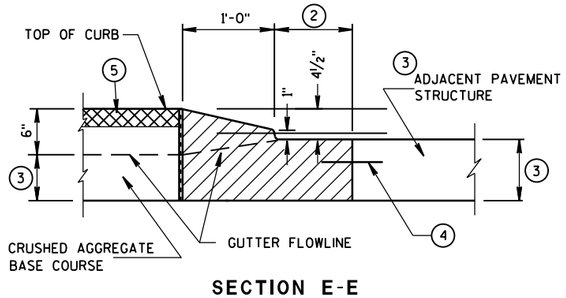




CONCRETE MEDIAN SLOPED NOSE TYPE 1

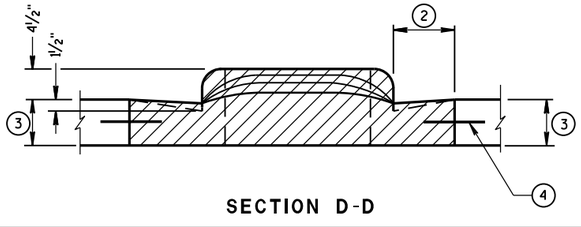


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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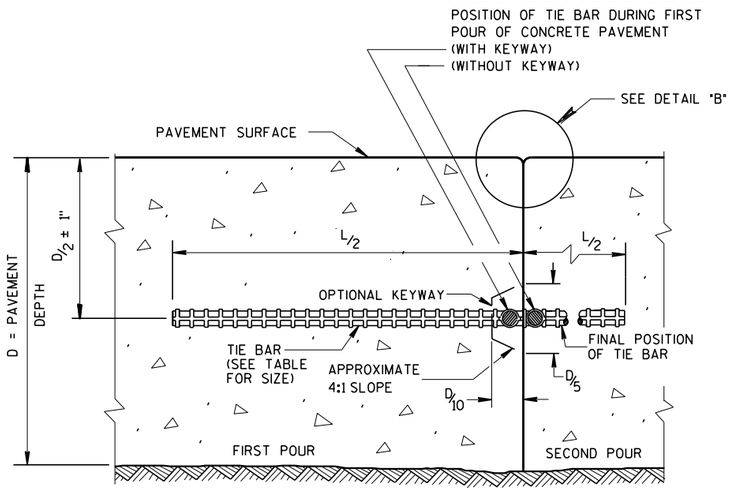
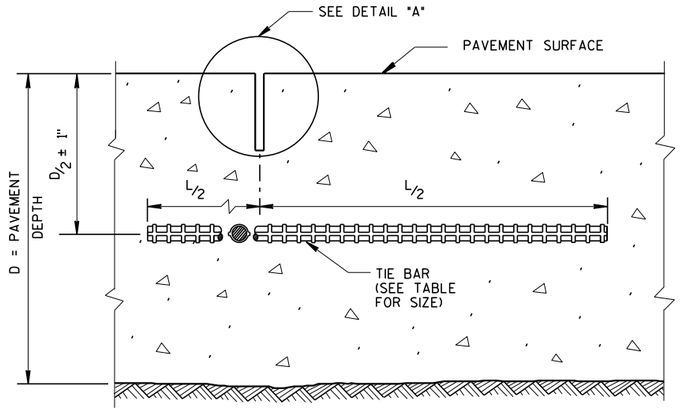
S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

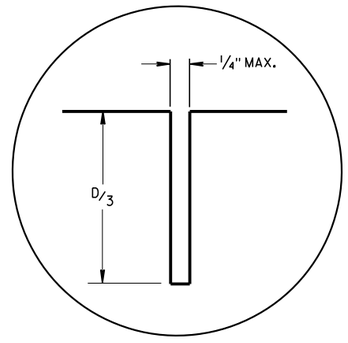
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



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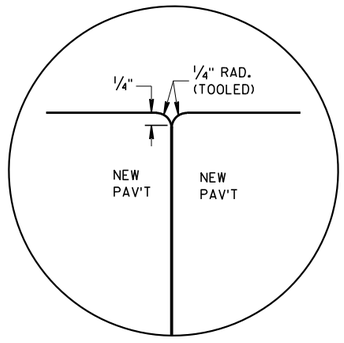

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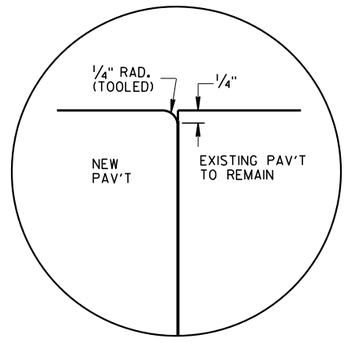
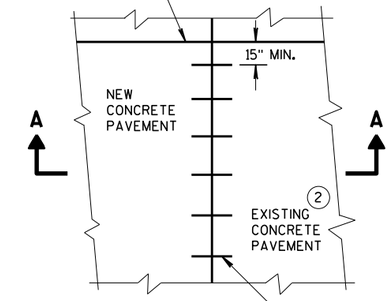
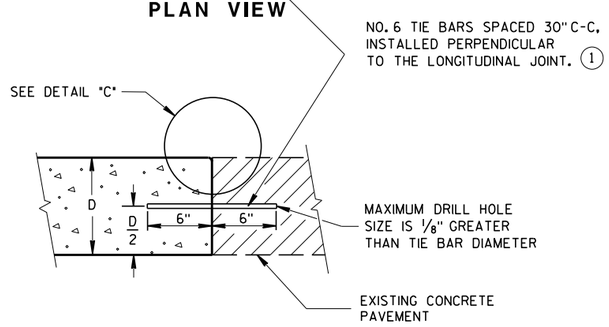


DETAIL "C"



PLAN VIEW



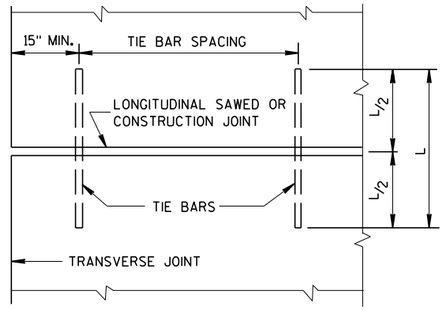
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

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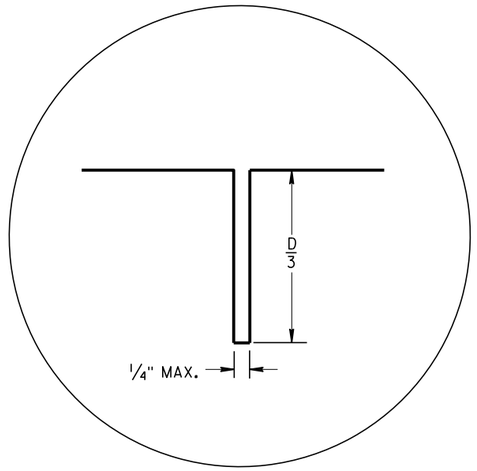
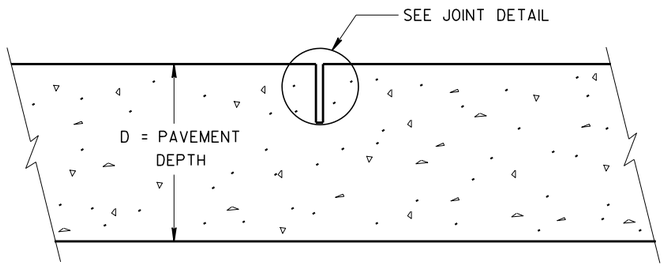
S.D.D. 13 C 1-19



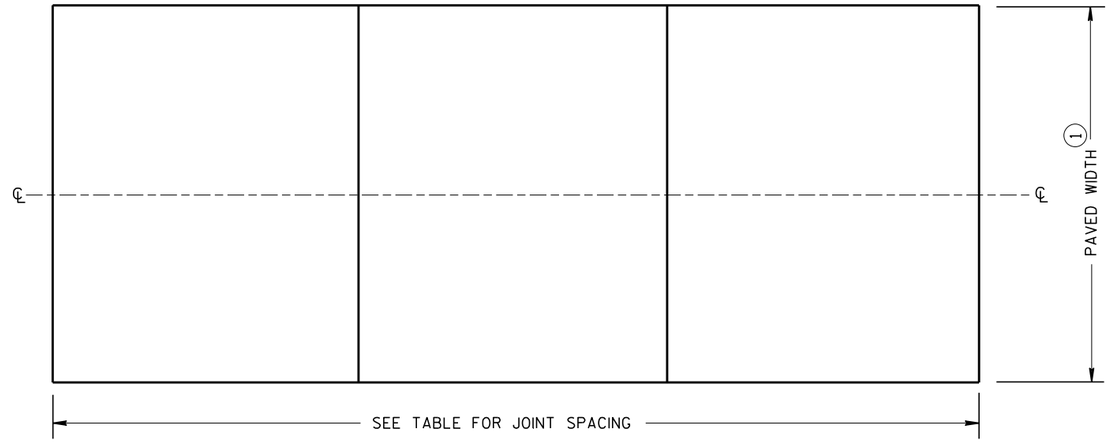
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

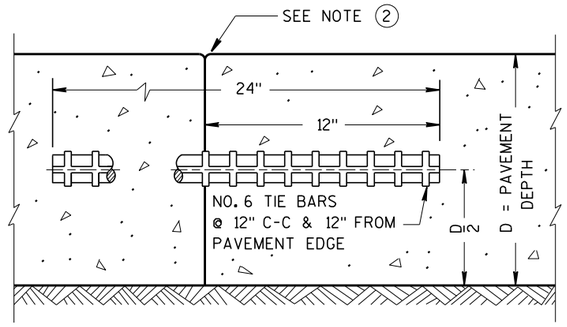
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPT
FHWA

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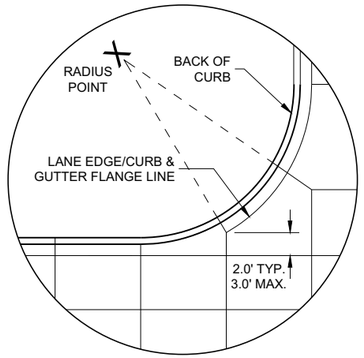
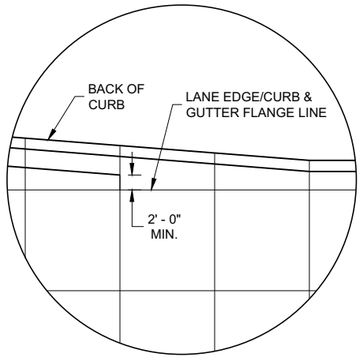
S.D.D. 13 C 4-17



DETAIL "A"



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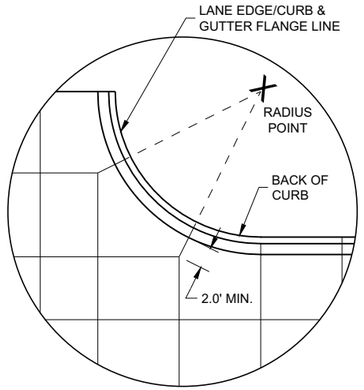
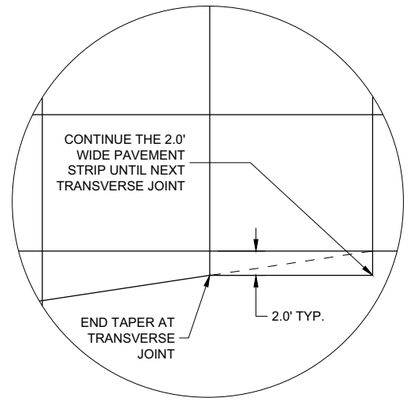


DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

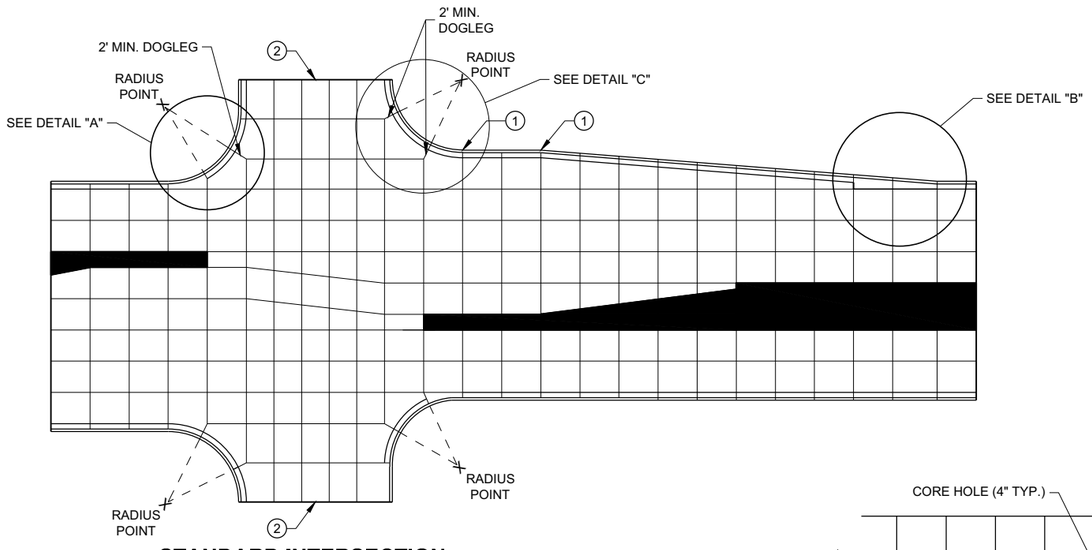
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

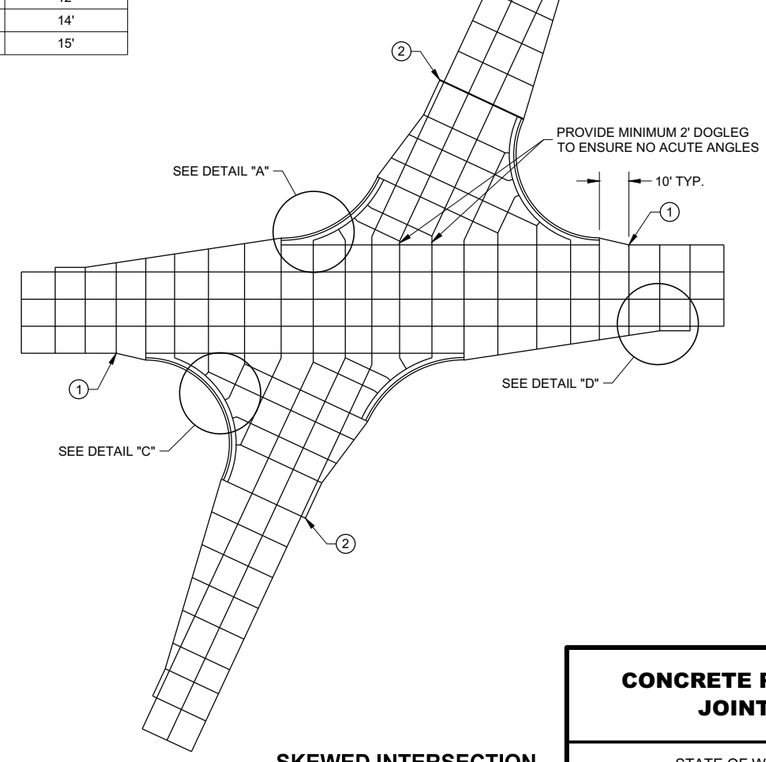
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



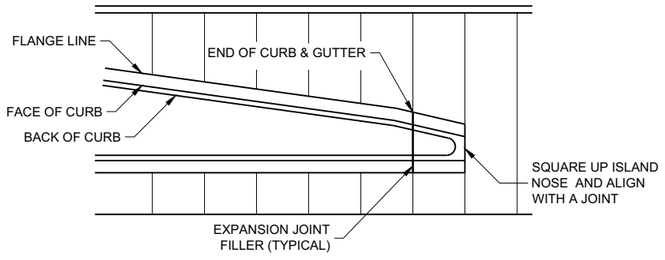
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

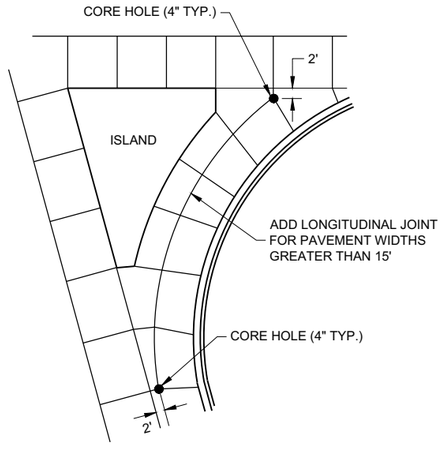
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

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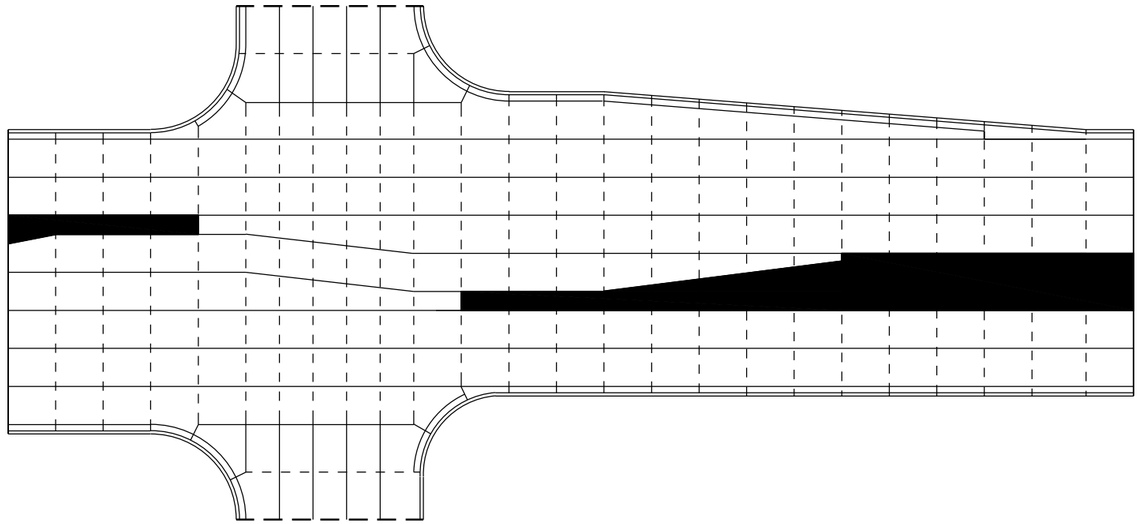
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

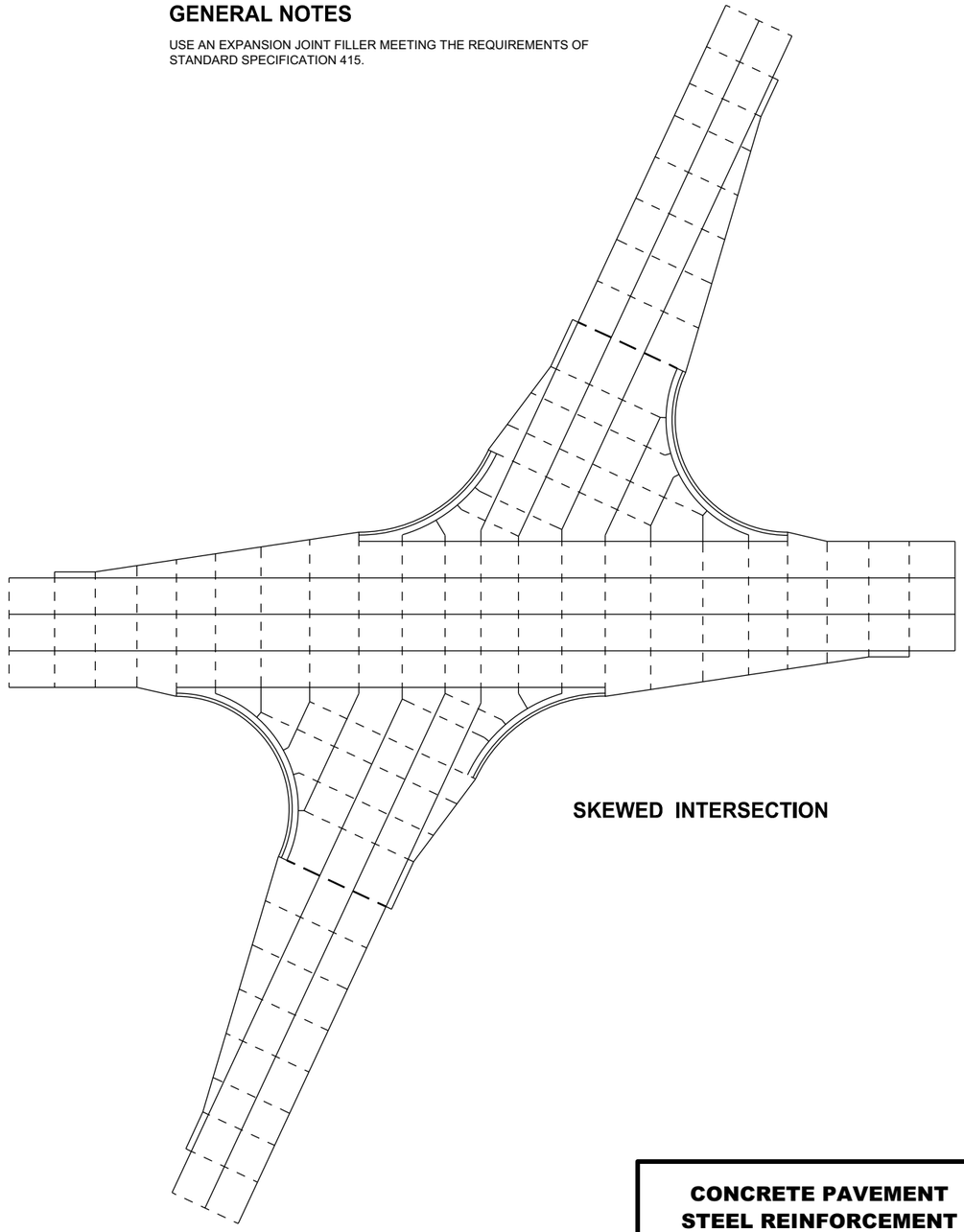
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

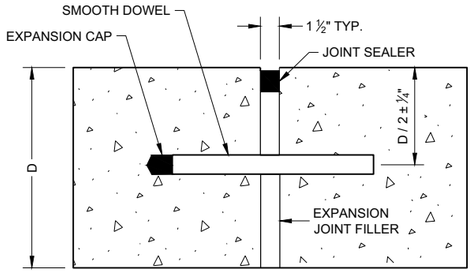
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

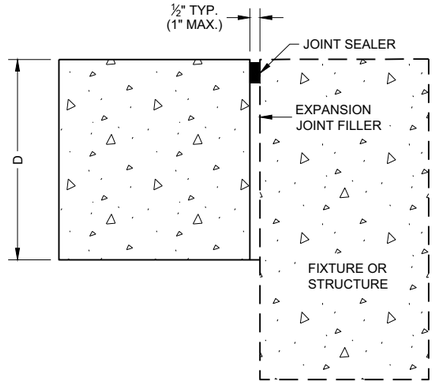
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

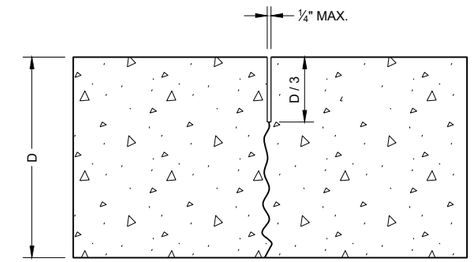
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

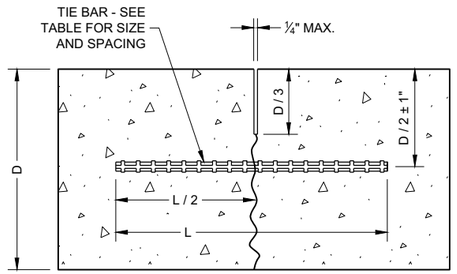
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

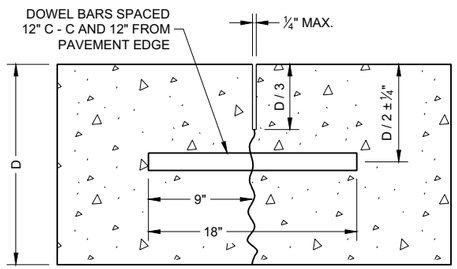
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

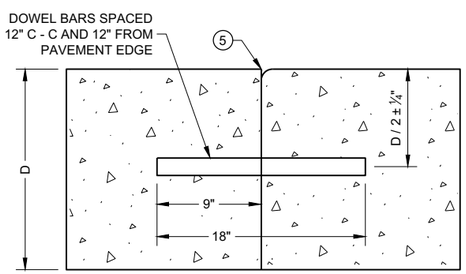


TIED LONGITUDINAL

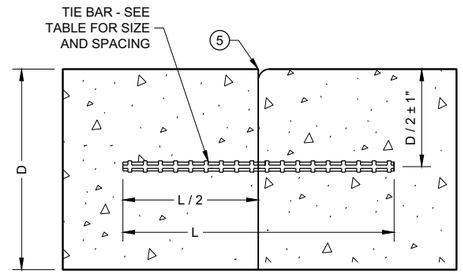


DOWELED TRANSVERSE

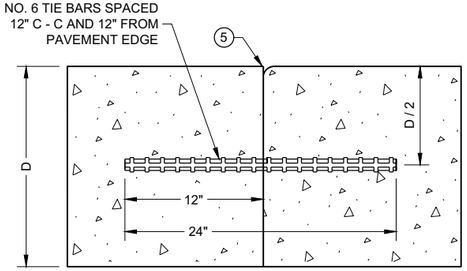
CONTRACTION JOINTS (2)



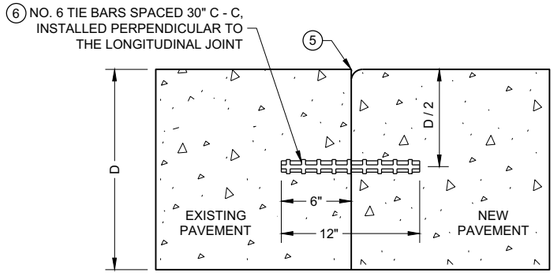
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



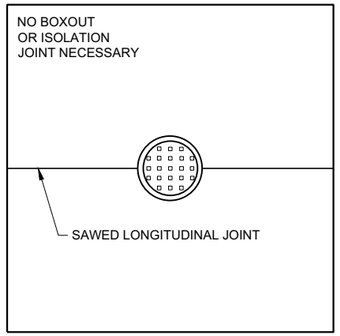
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

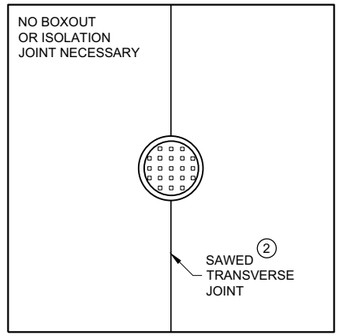
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

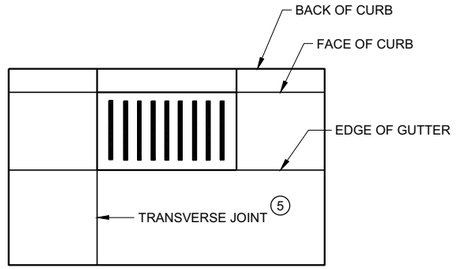
6
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



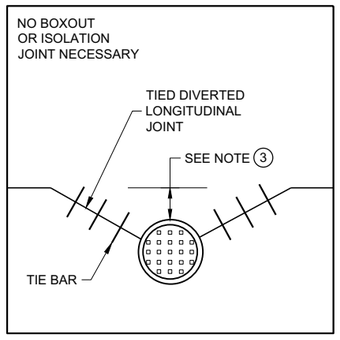
MANHOLE WITH TRANSVERSE JOINT



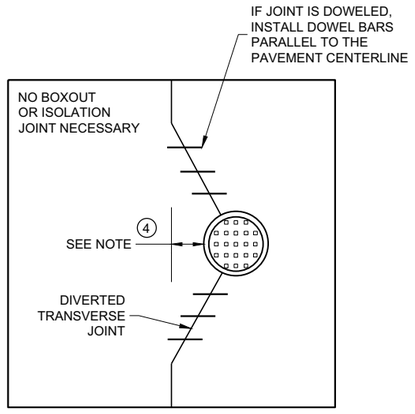
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

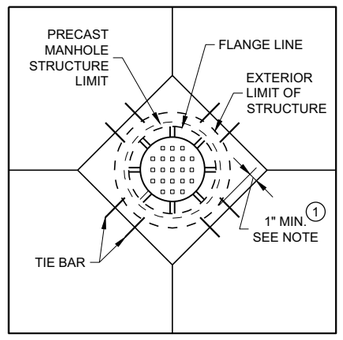
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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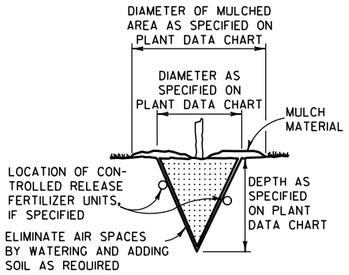
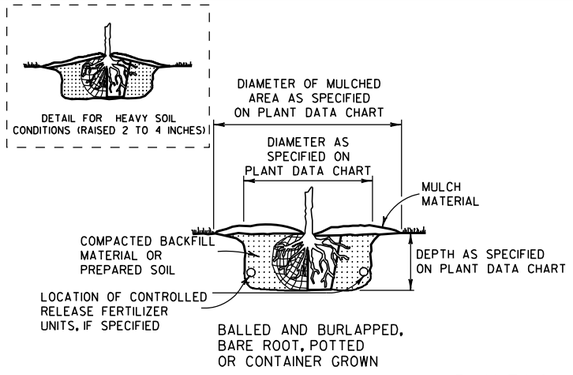
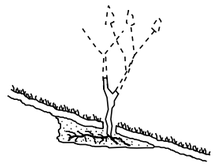
SDD 13C18 - 07d



MACHINE MOVED

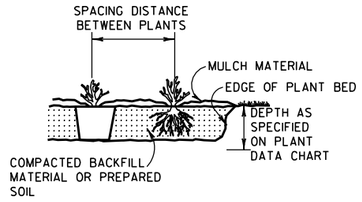


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



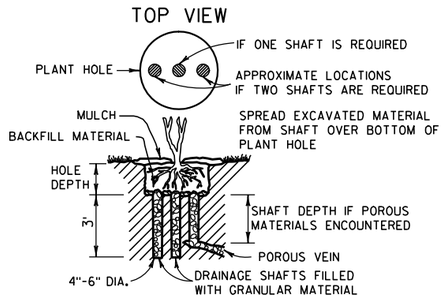
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



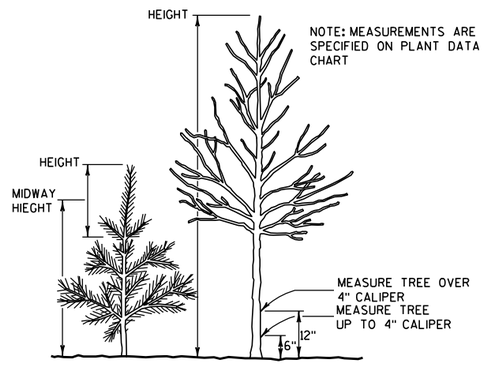
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

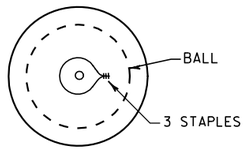


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

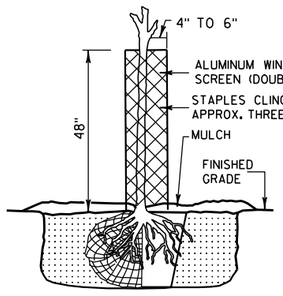
DRAINING



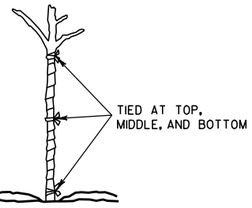
MEASURING



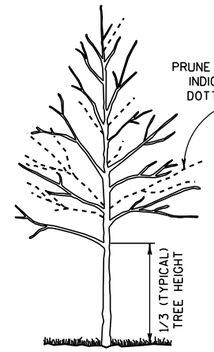
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

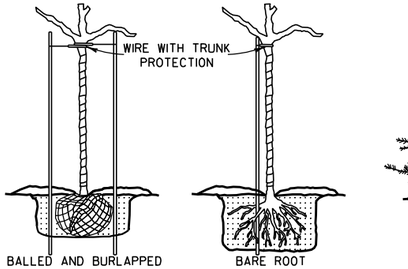
NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

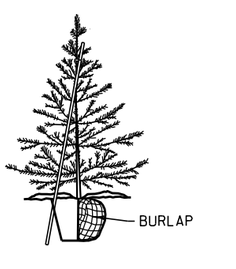
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

SUMAC

TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

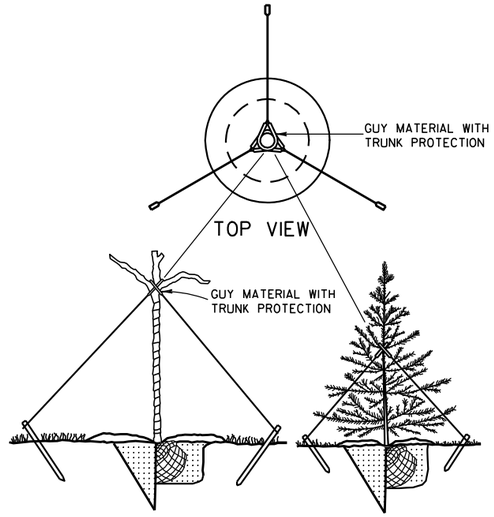
PRUNING





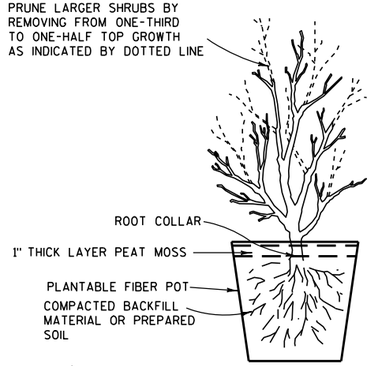
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

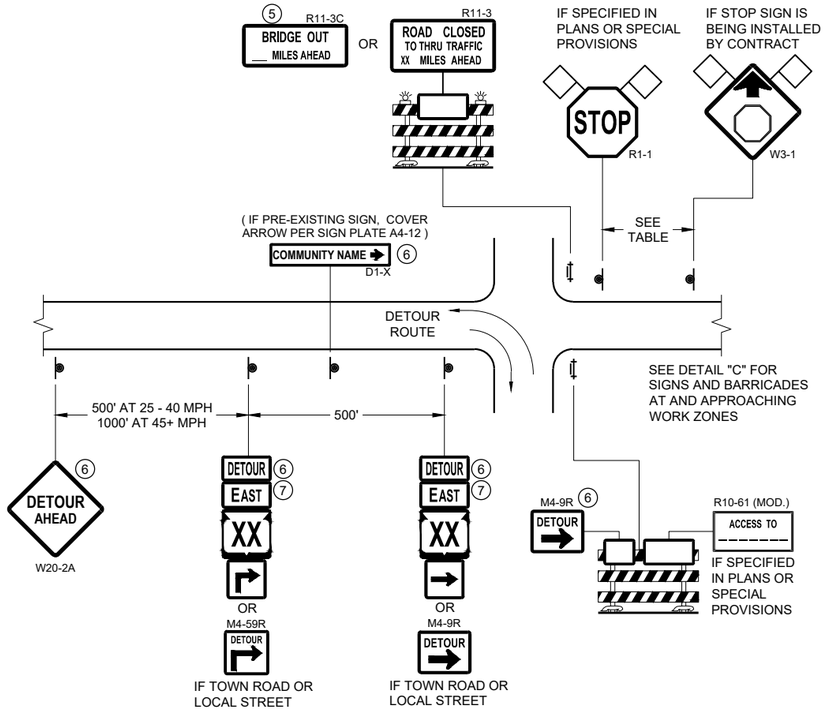
BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

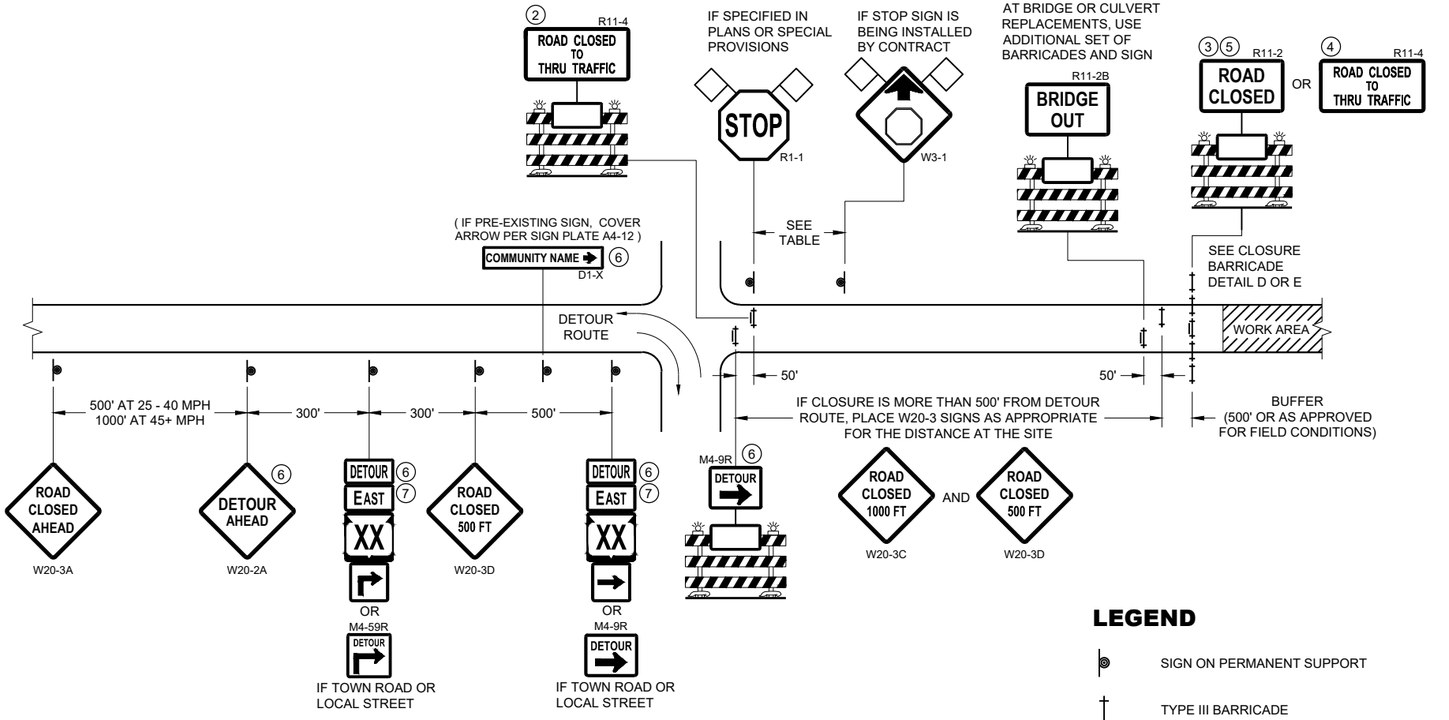
APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 A 2-1



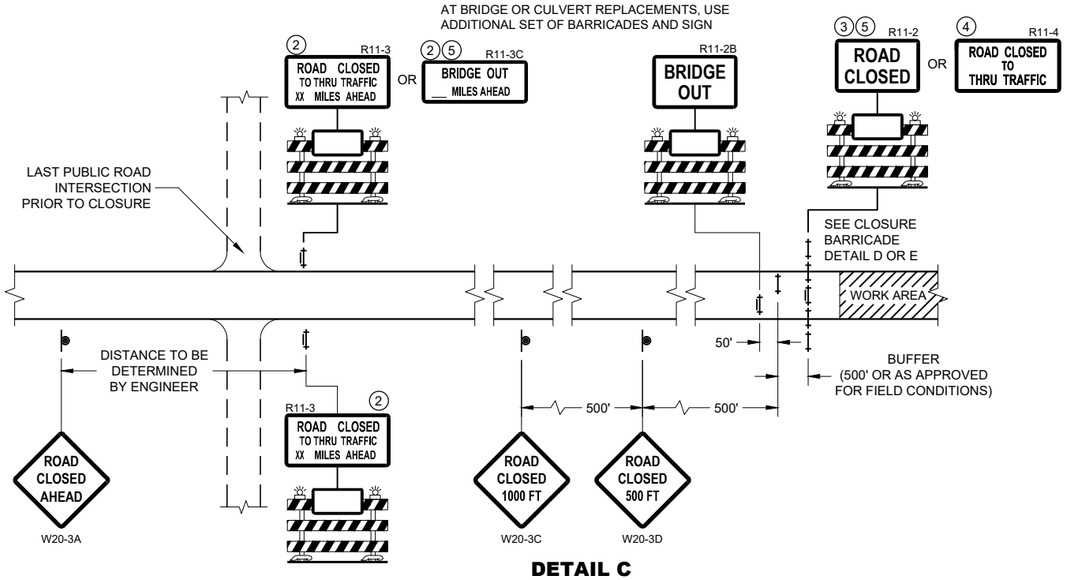
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

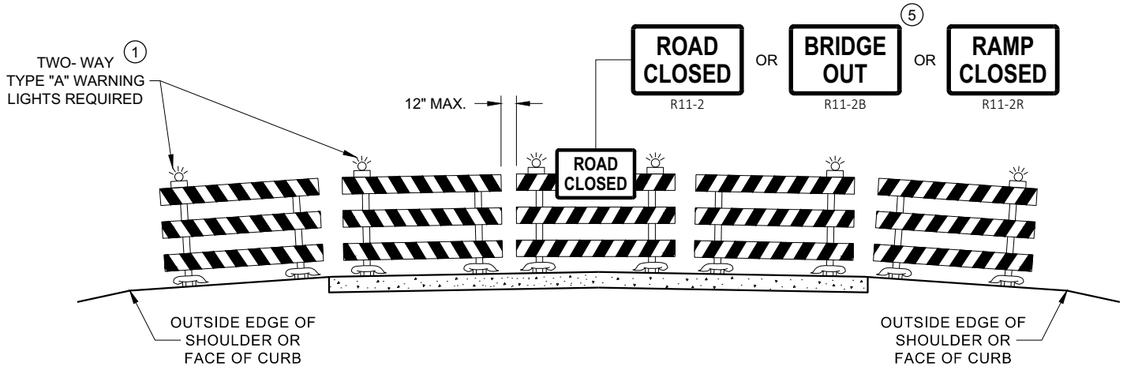
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

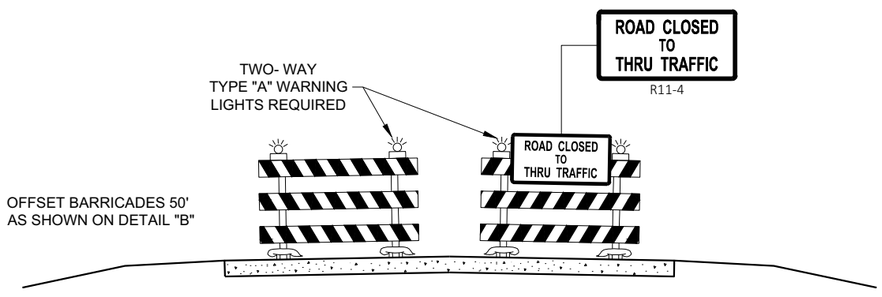
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

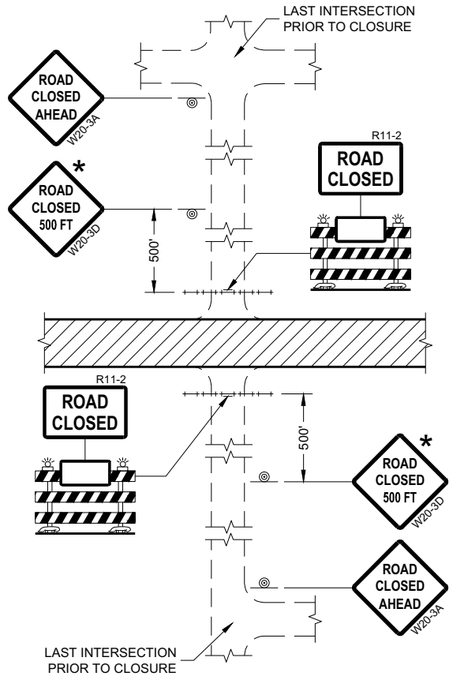
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

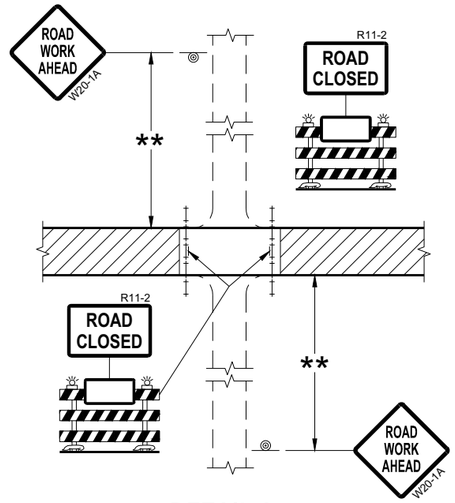
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

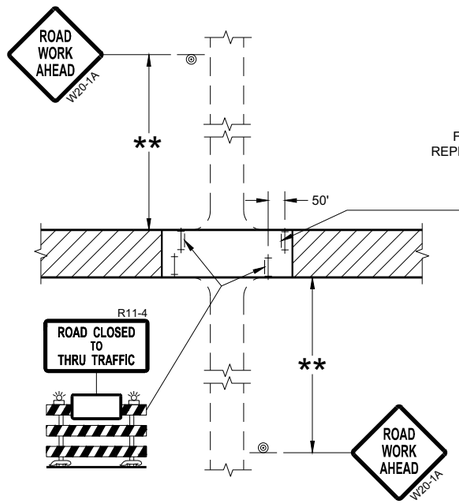
SDD 15C02 - 08b



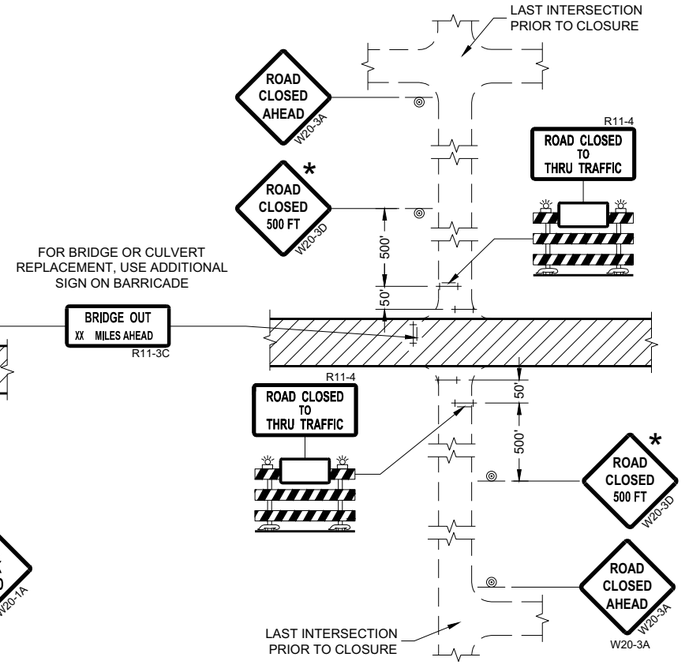
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

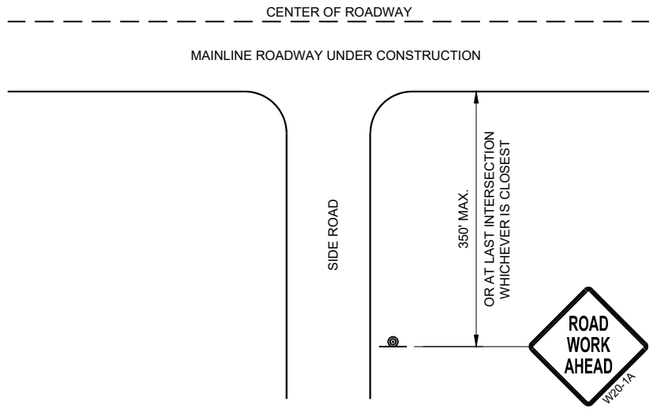
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

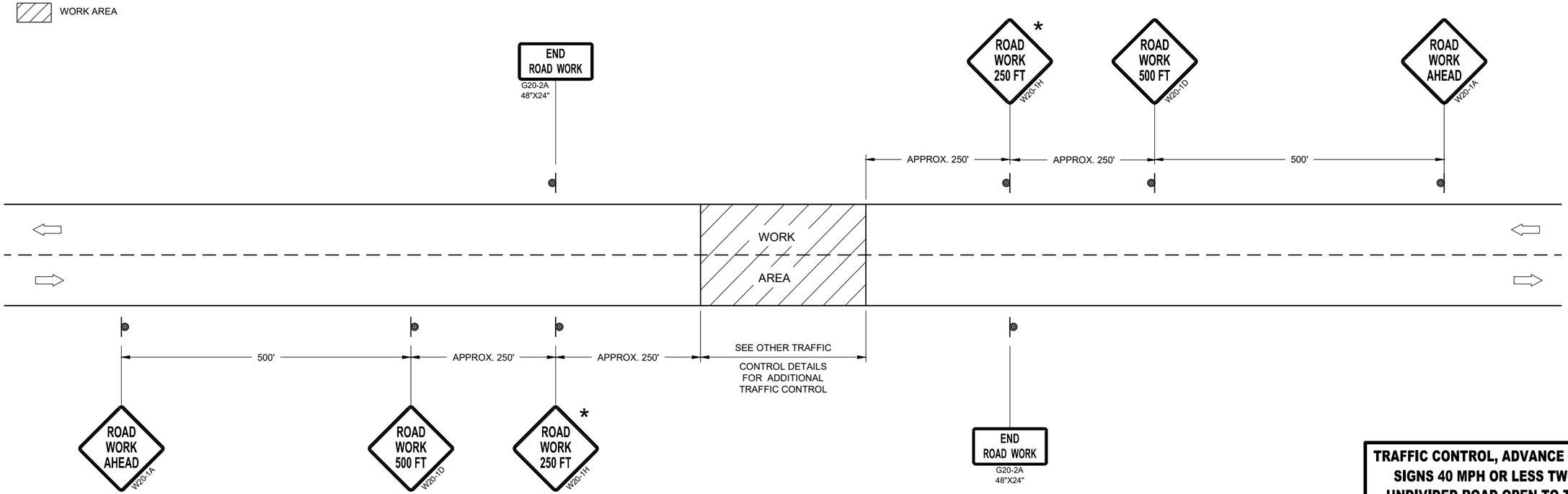
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

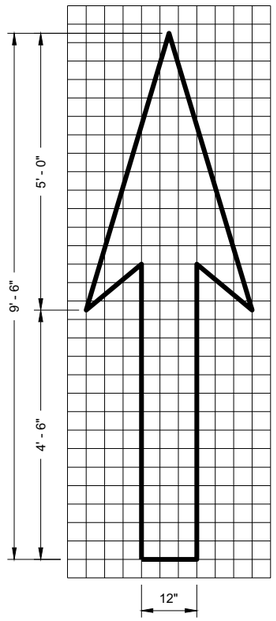
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

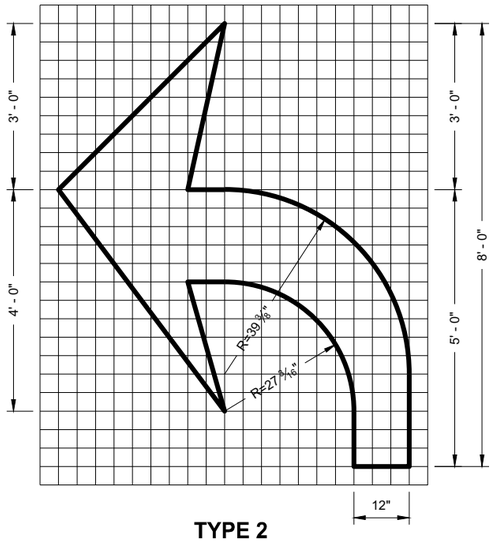
FHWA

6

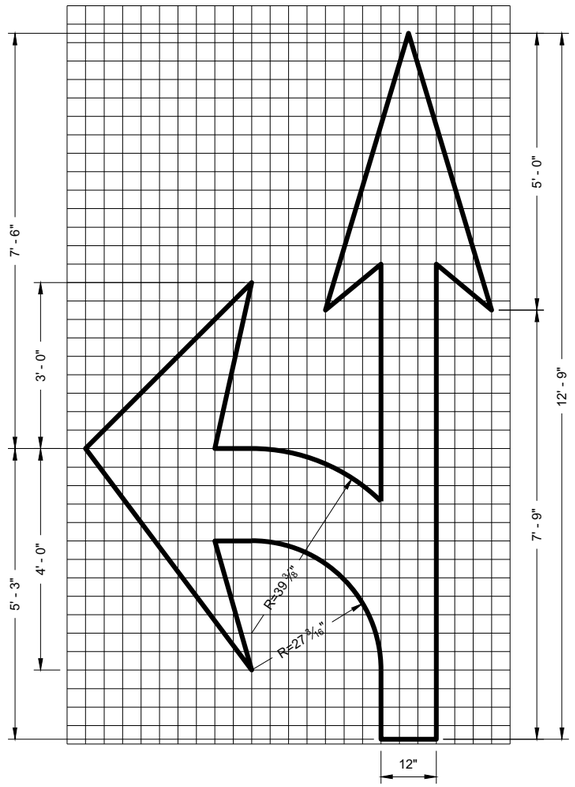
SDD 15C05 - 05



TYPE 1



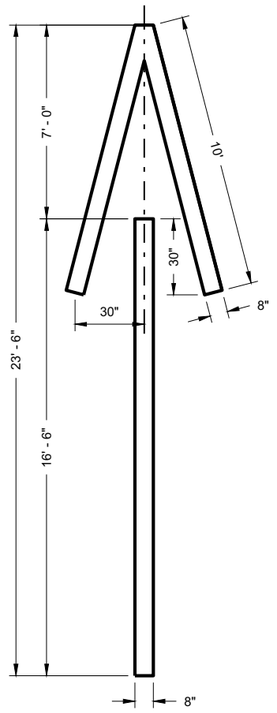
TYPE 2



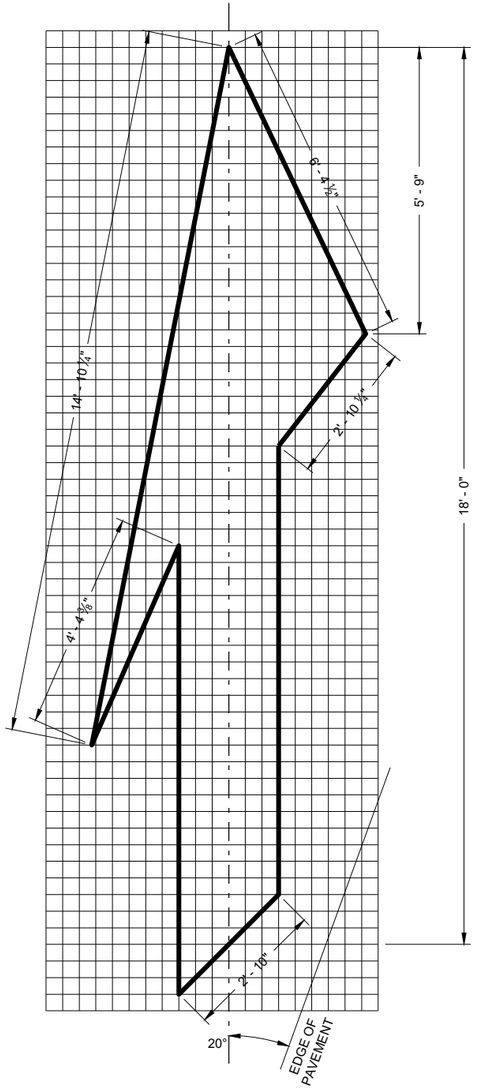
TYPE 3

GENERAL NOTES

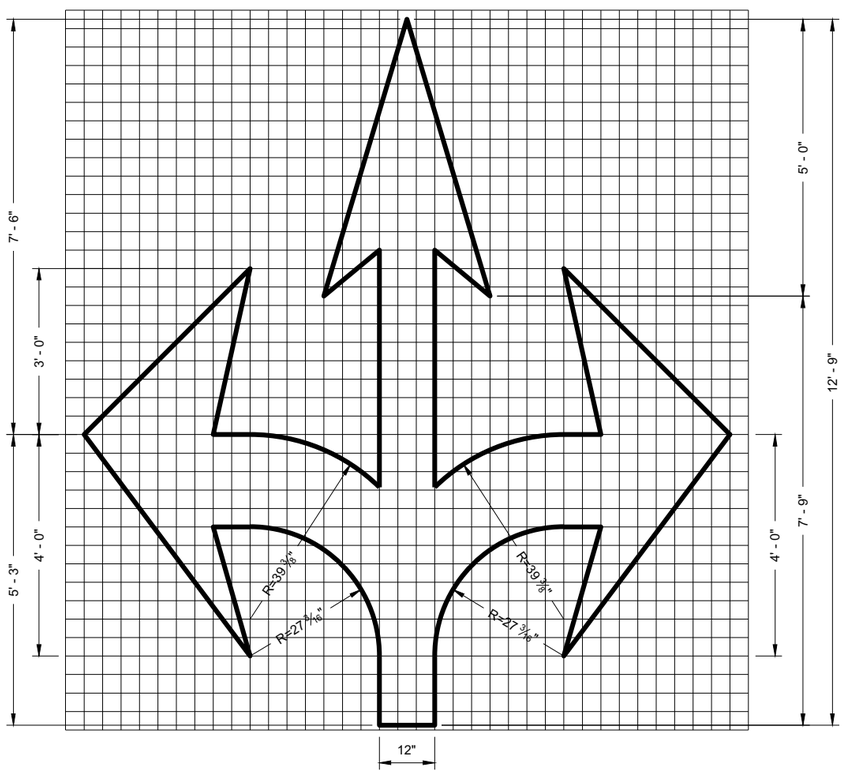
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



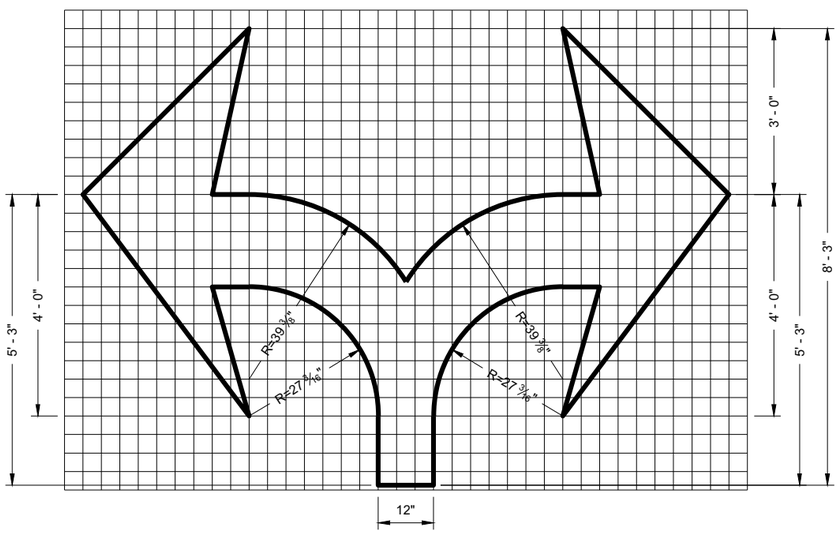
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

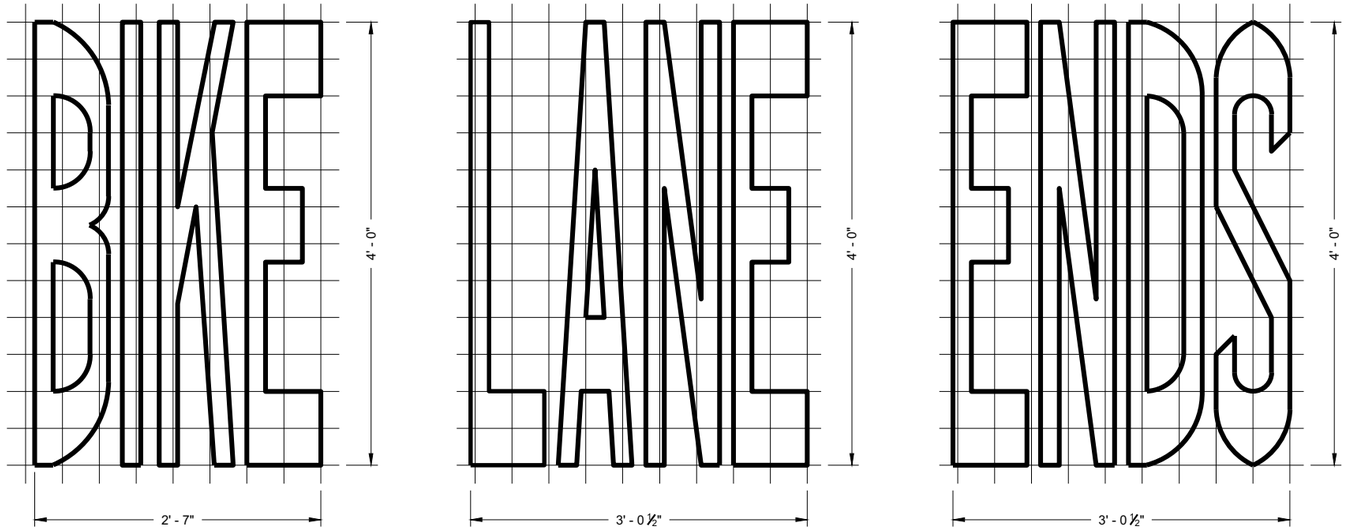
6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

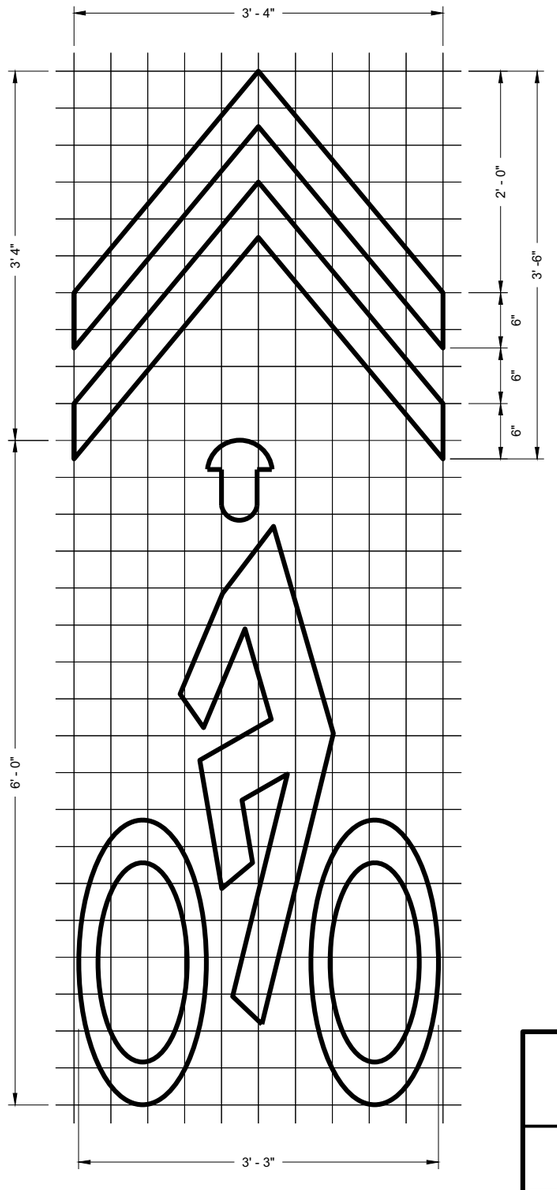
SDD 15C7-e Pavement Marking For Bike Lanes

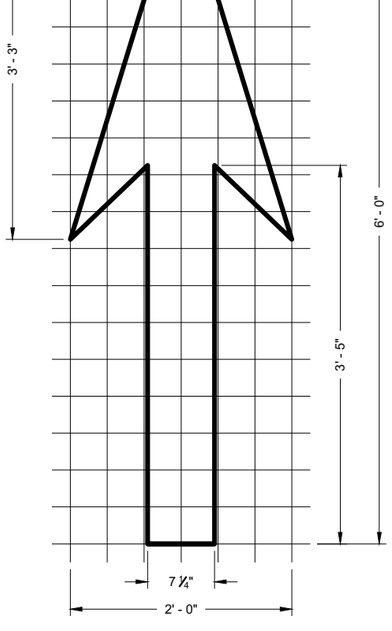


BIKE LANE WORDS

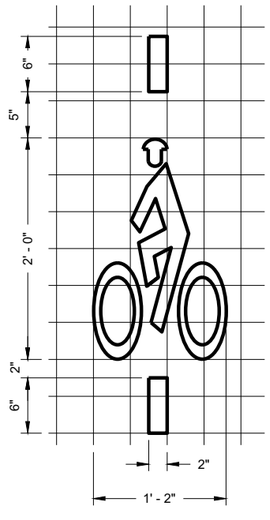
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

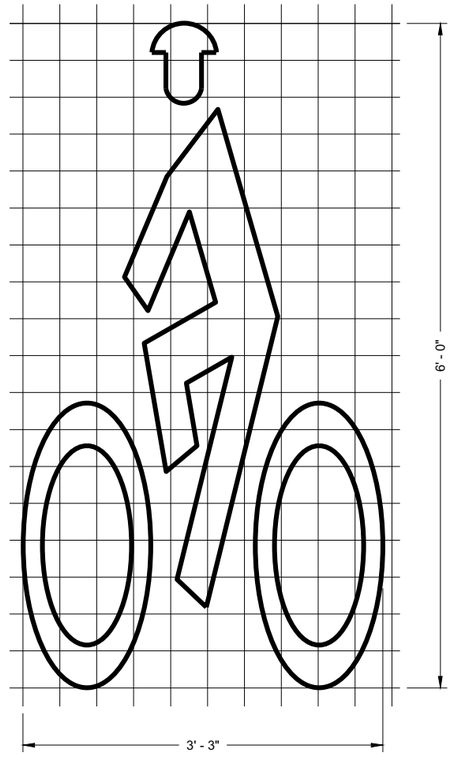




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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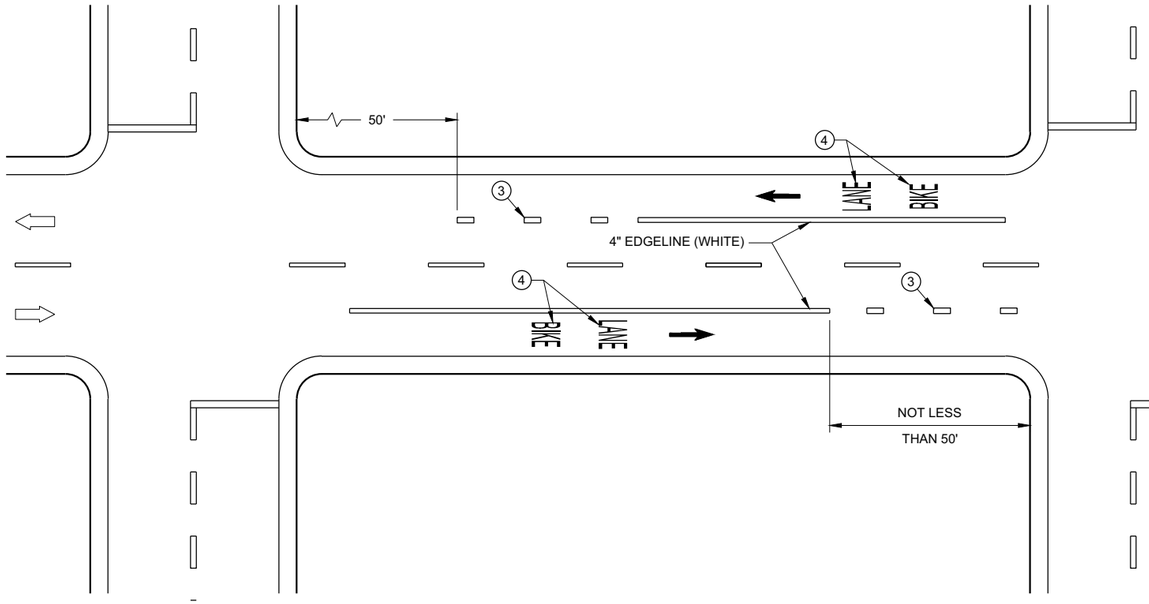
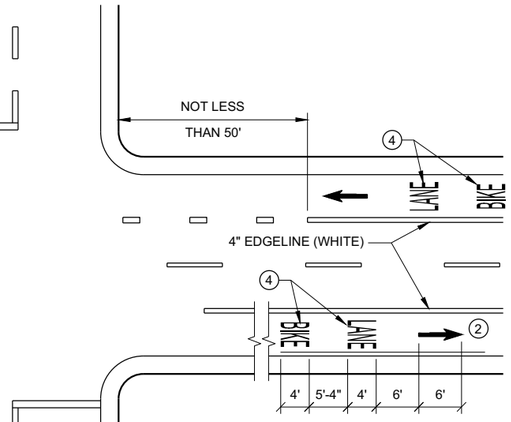
SDD 15C07 - 15e



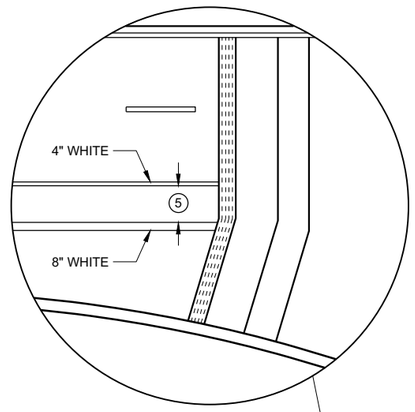
DESIGNATED BIKE LANE - NO PARKING



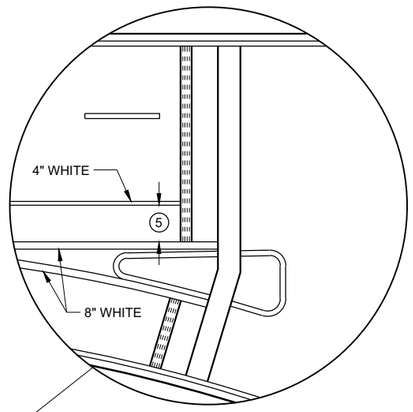
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

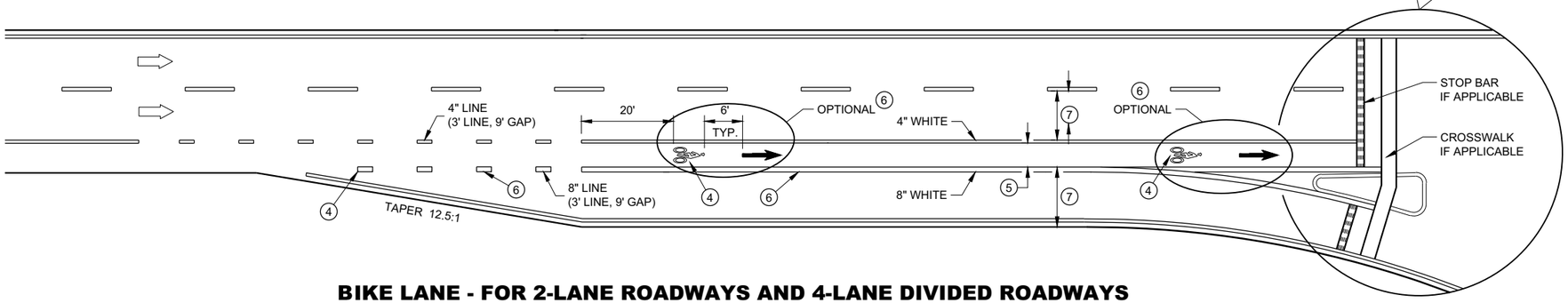
DIRECTION OF TRAFFIC



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C29 - 07a

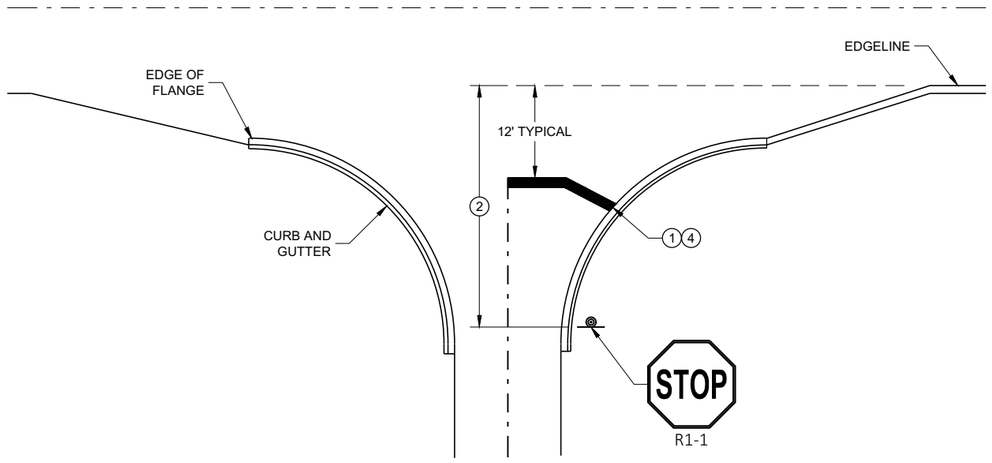
6

SDD 15C29 - 07a

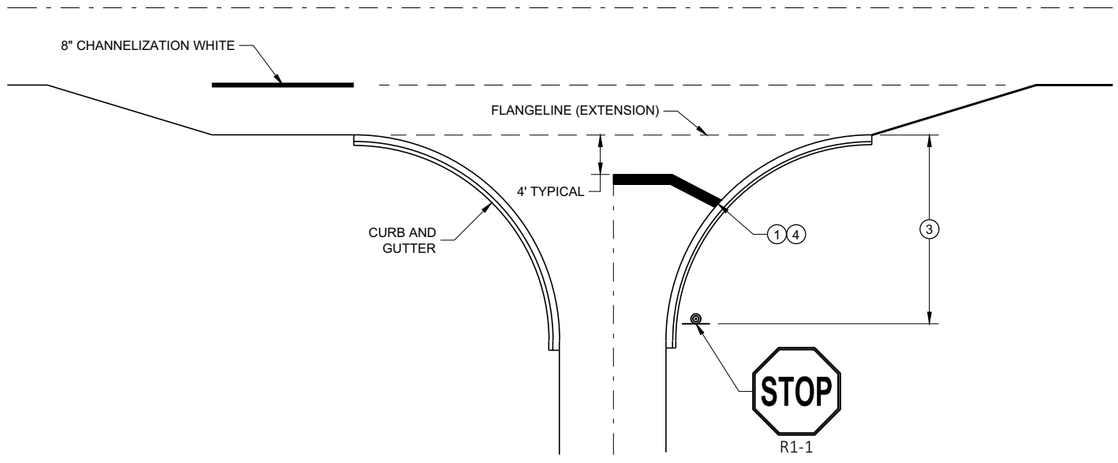
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

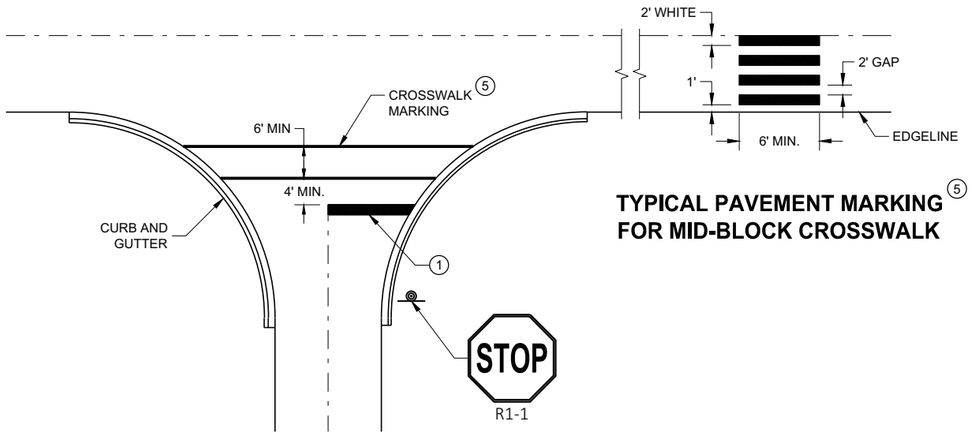
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

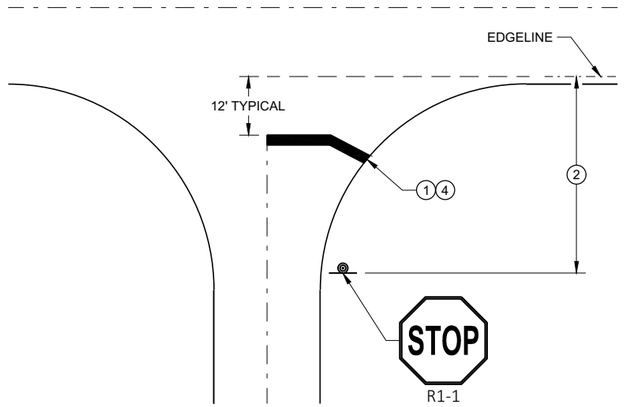


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C33 - 04

6

SDD 15C33 - 04

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

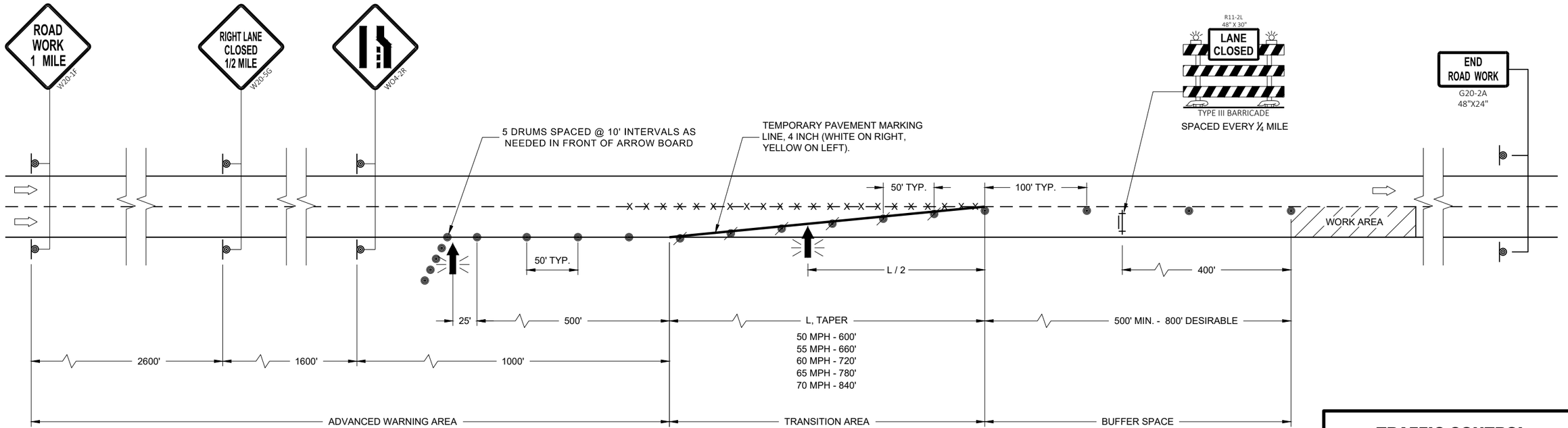
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 10a

6

SDD 15D12 - 10a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

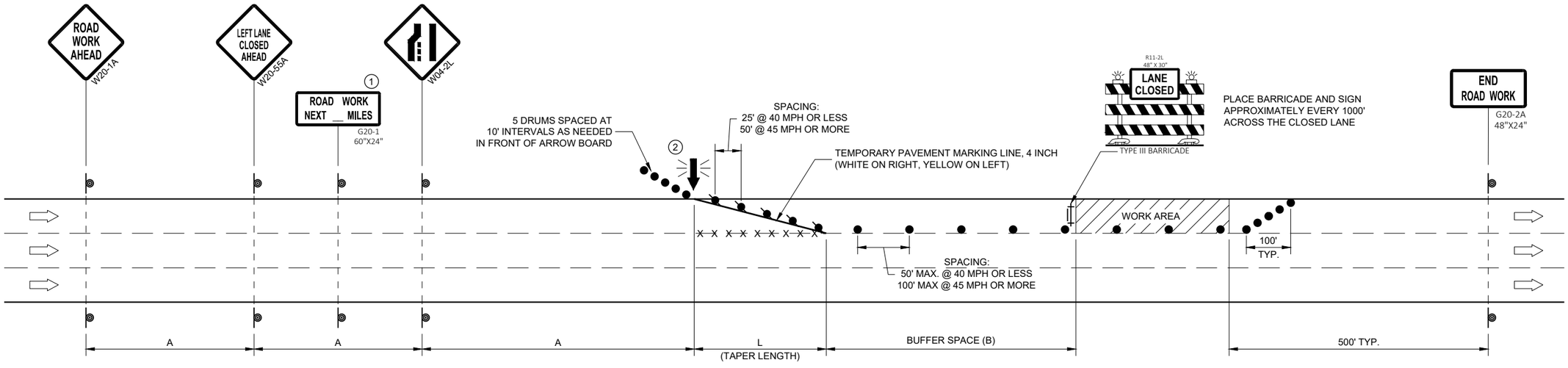
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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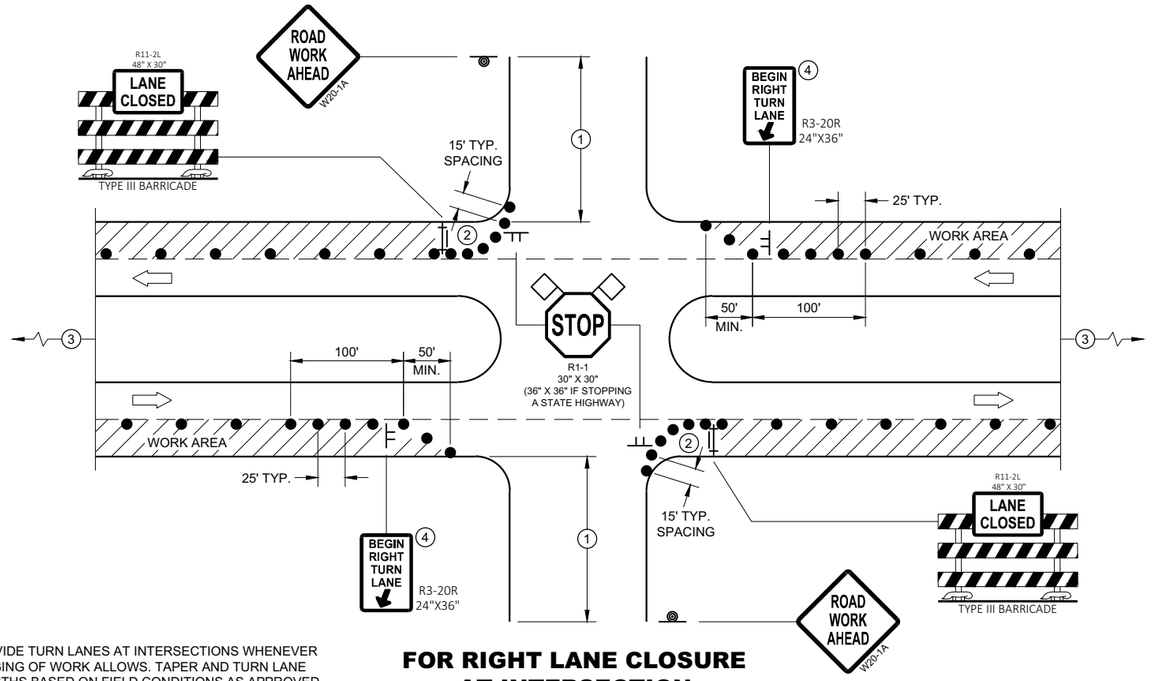
SDD 15D20 - 06a

6

SDD15D20 - 06a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

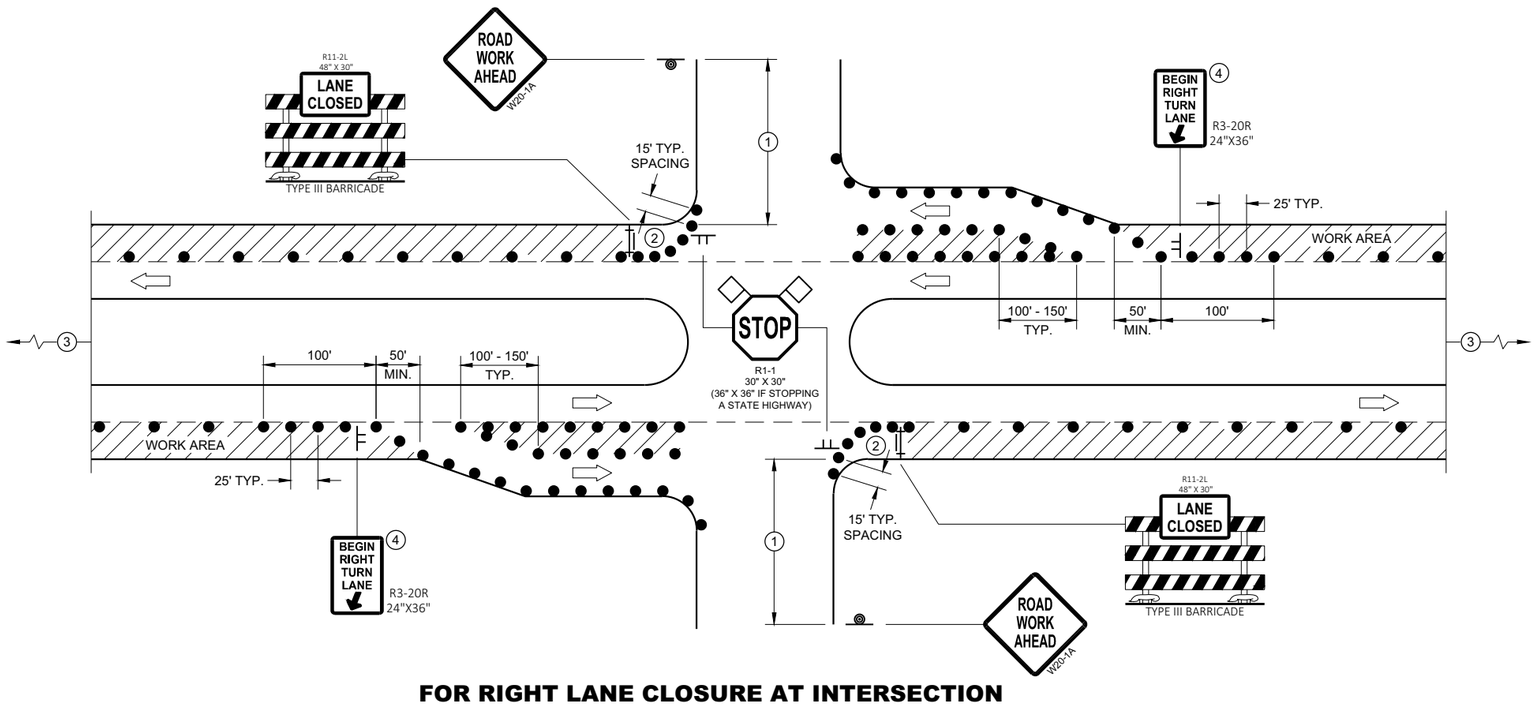
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

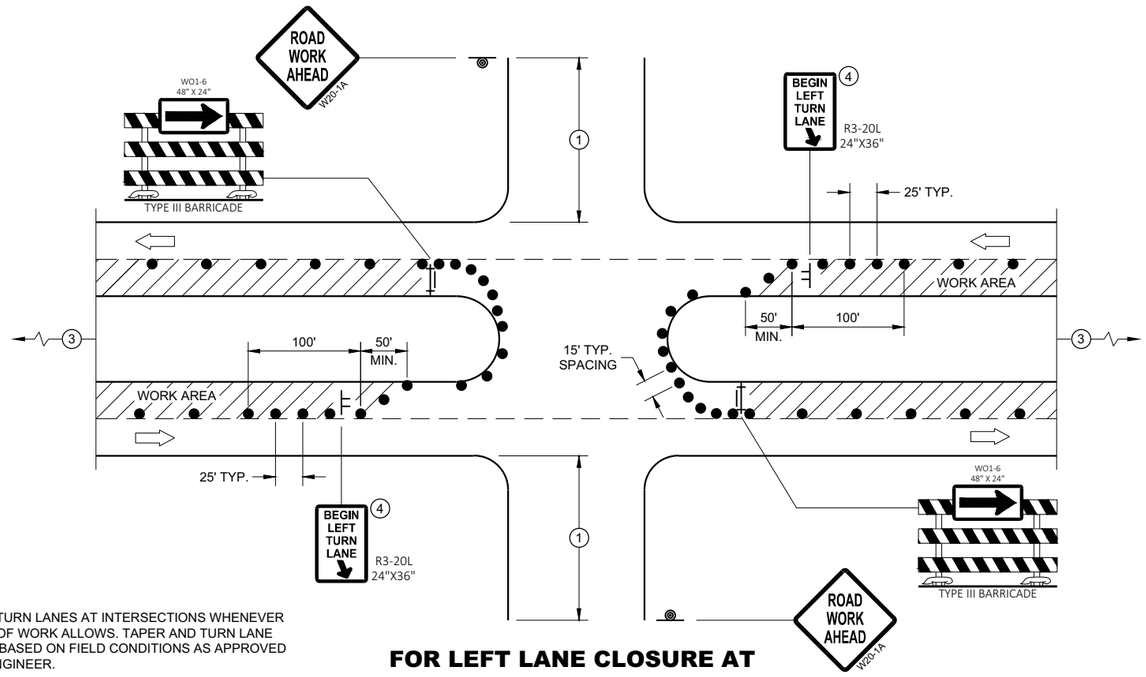
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

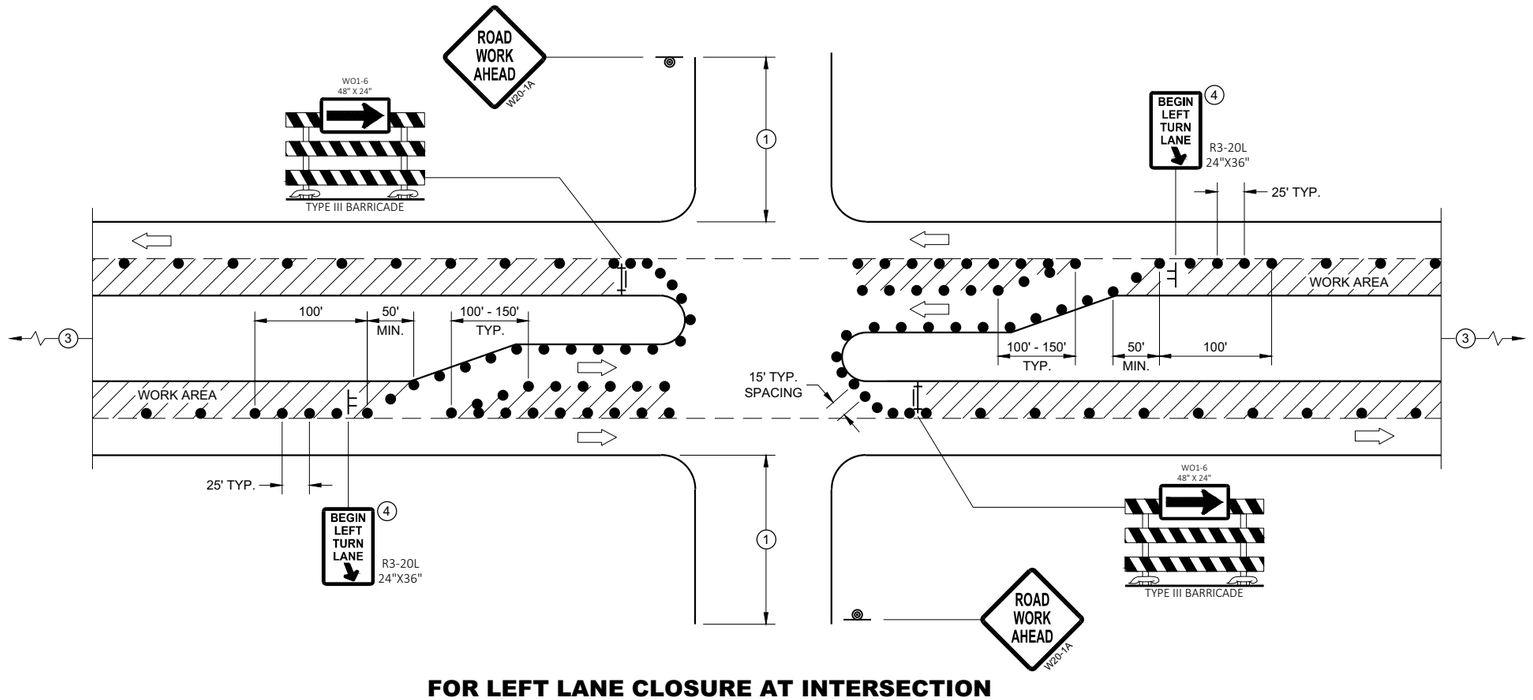
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

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SDD 15D21 - 07b

GENERAL NOTES

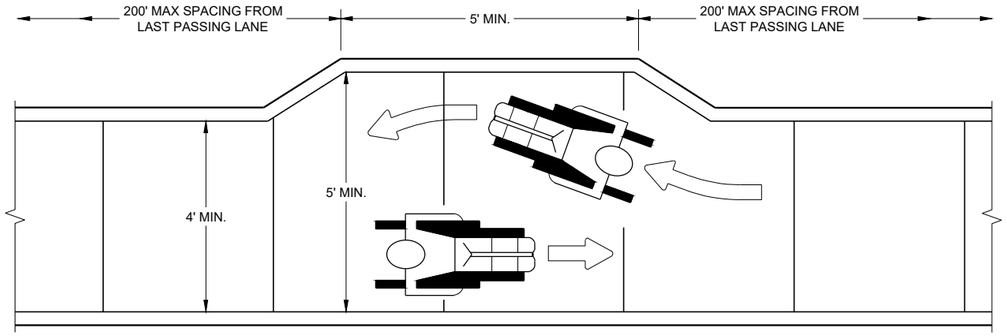
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

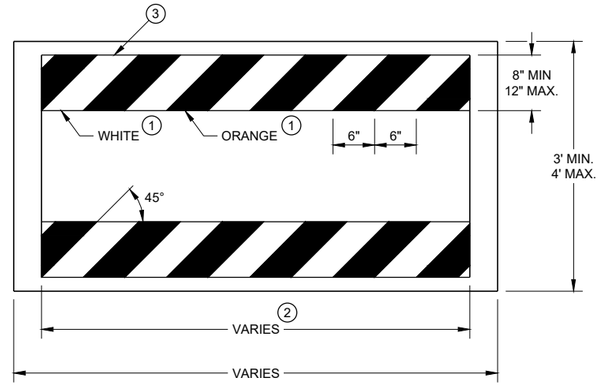
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

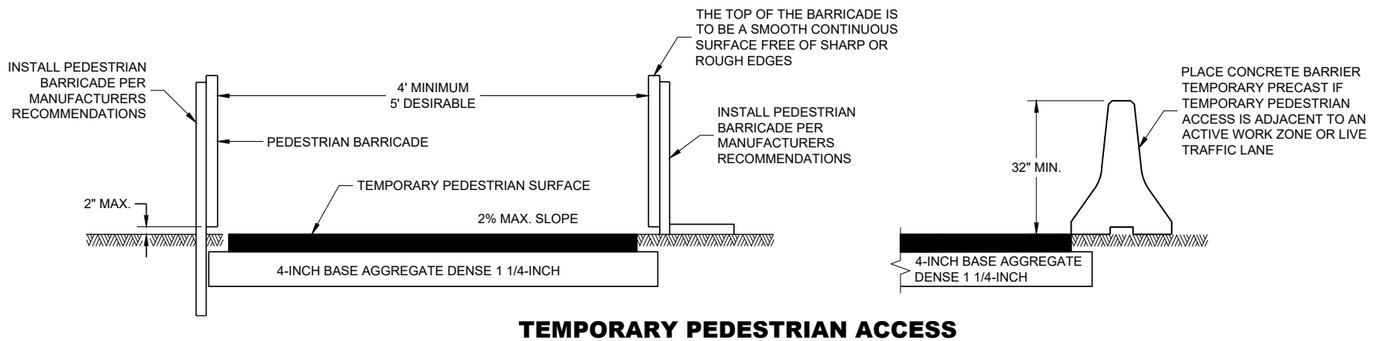
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



TEMPORARY PEDESTRIAN ACCESS

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SDD 15D30 - 07a

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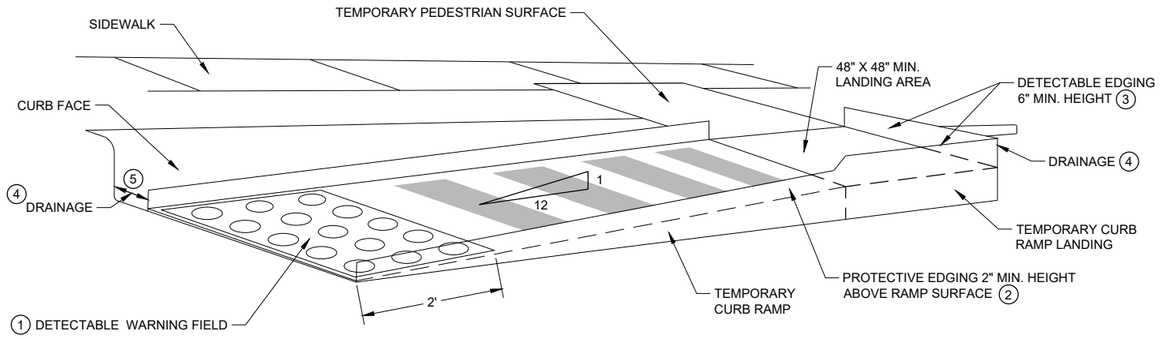
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

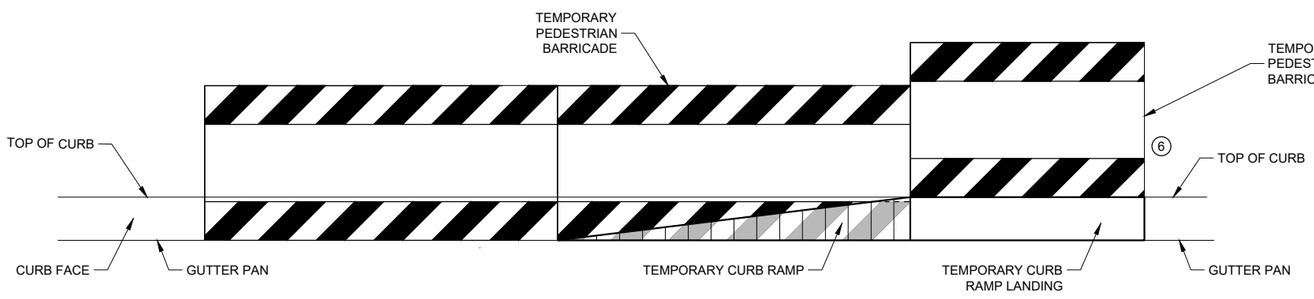
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

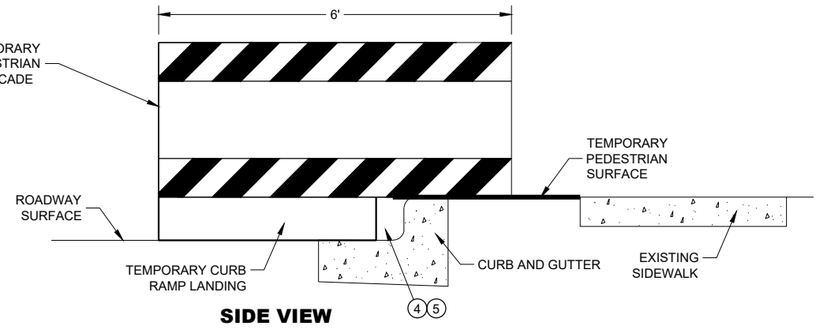
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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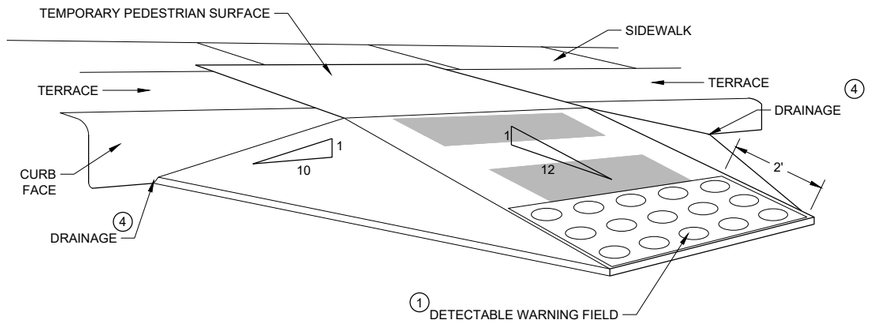
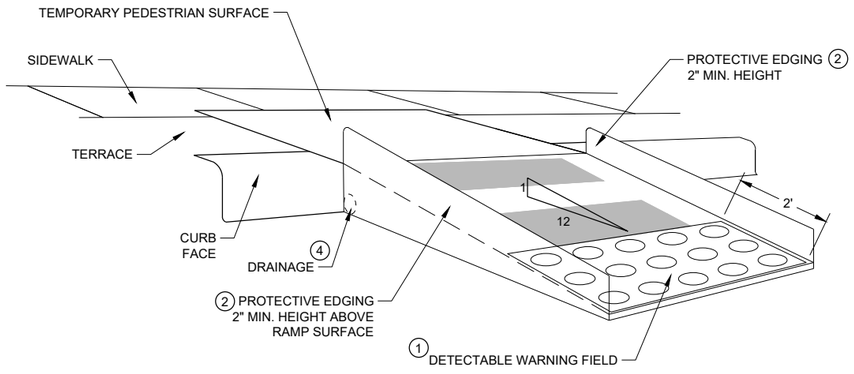


WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

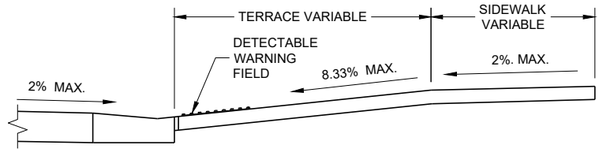
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

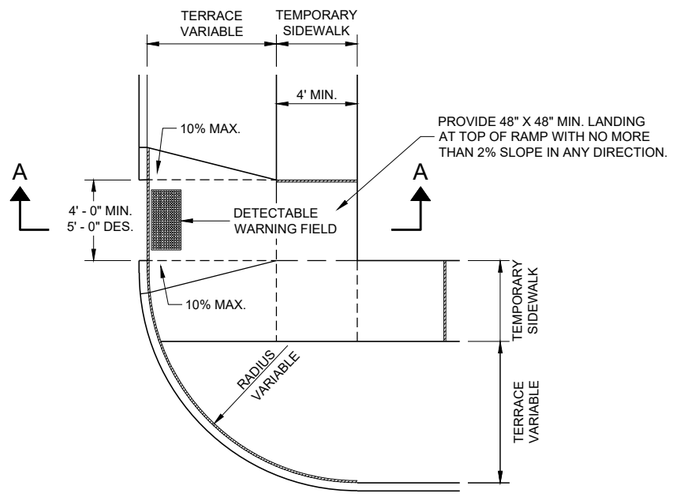
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

6

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SDD 15D30 - 07d

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TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

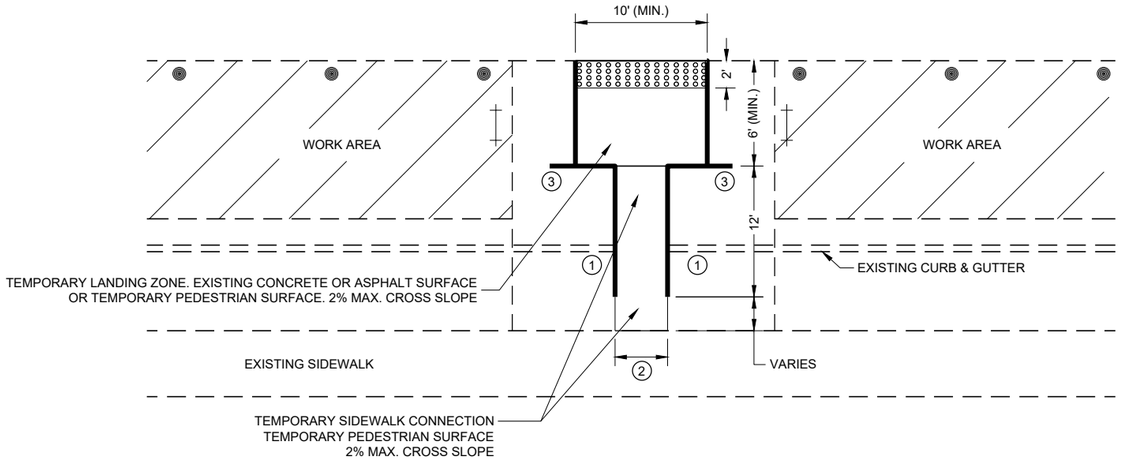
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

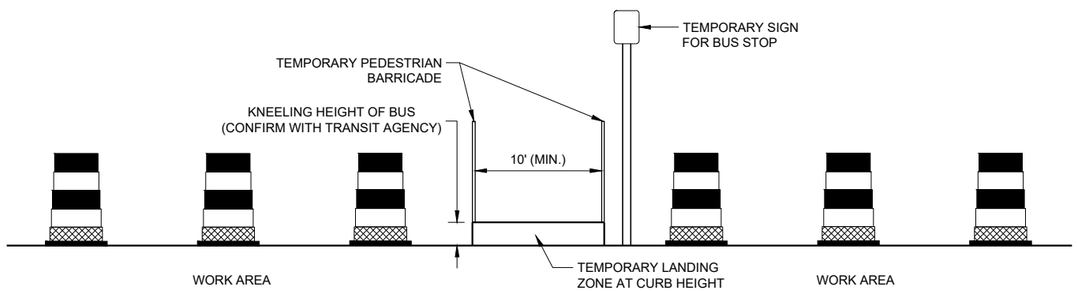
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

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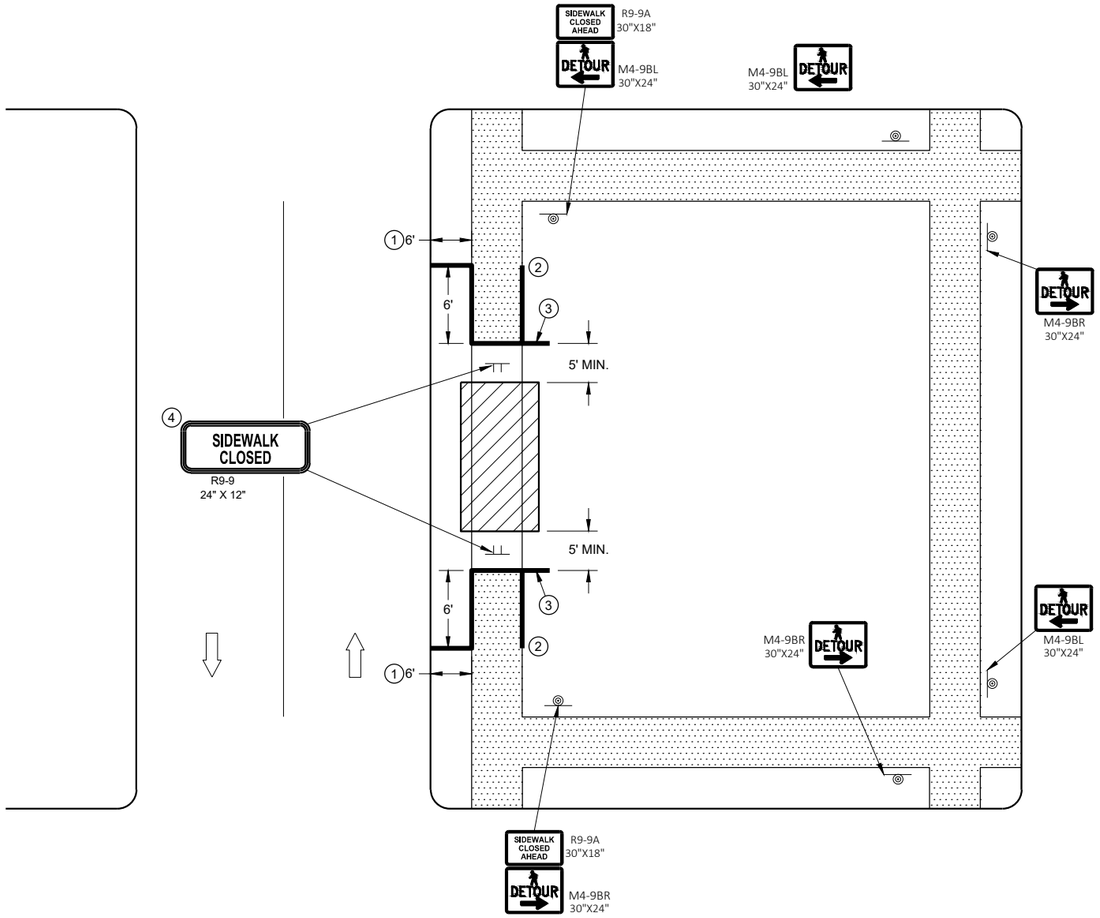
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

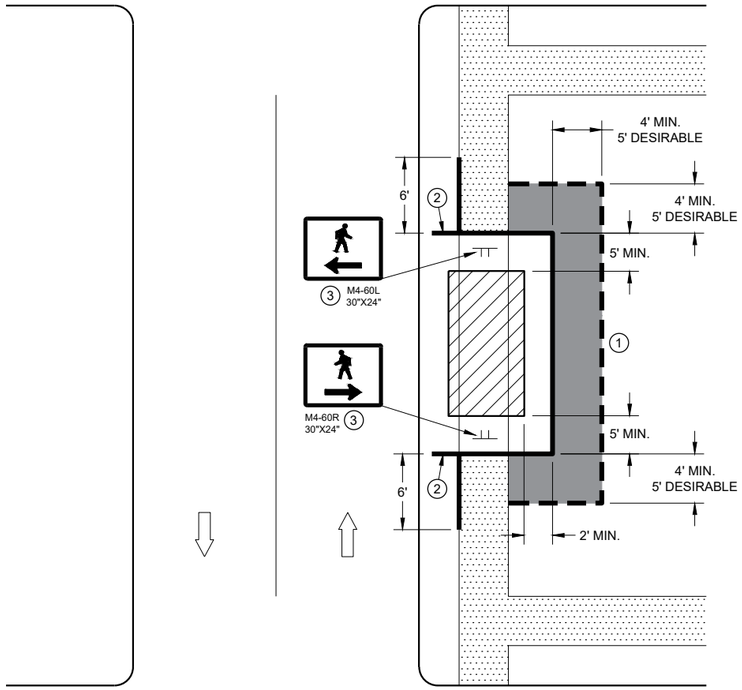
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 07g

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TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

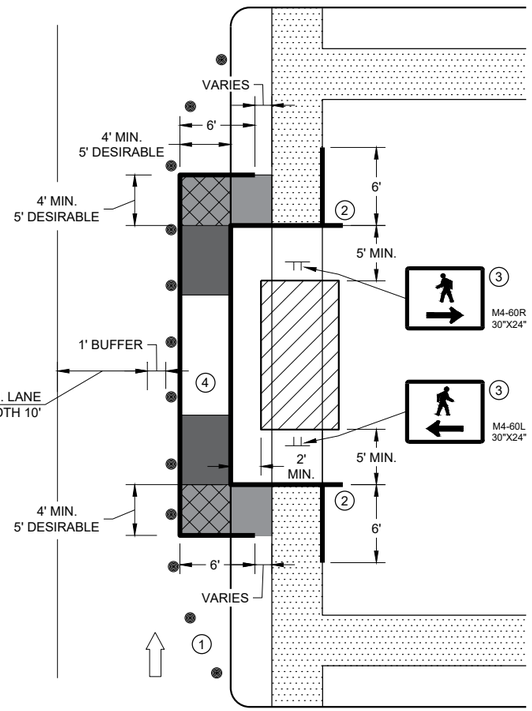
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D30 - 07h

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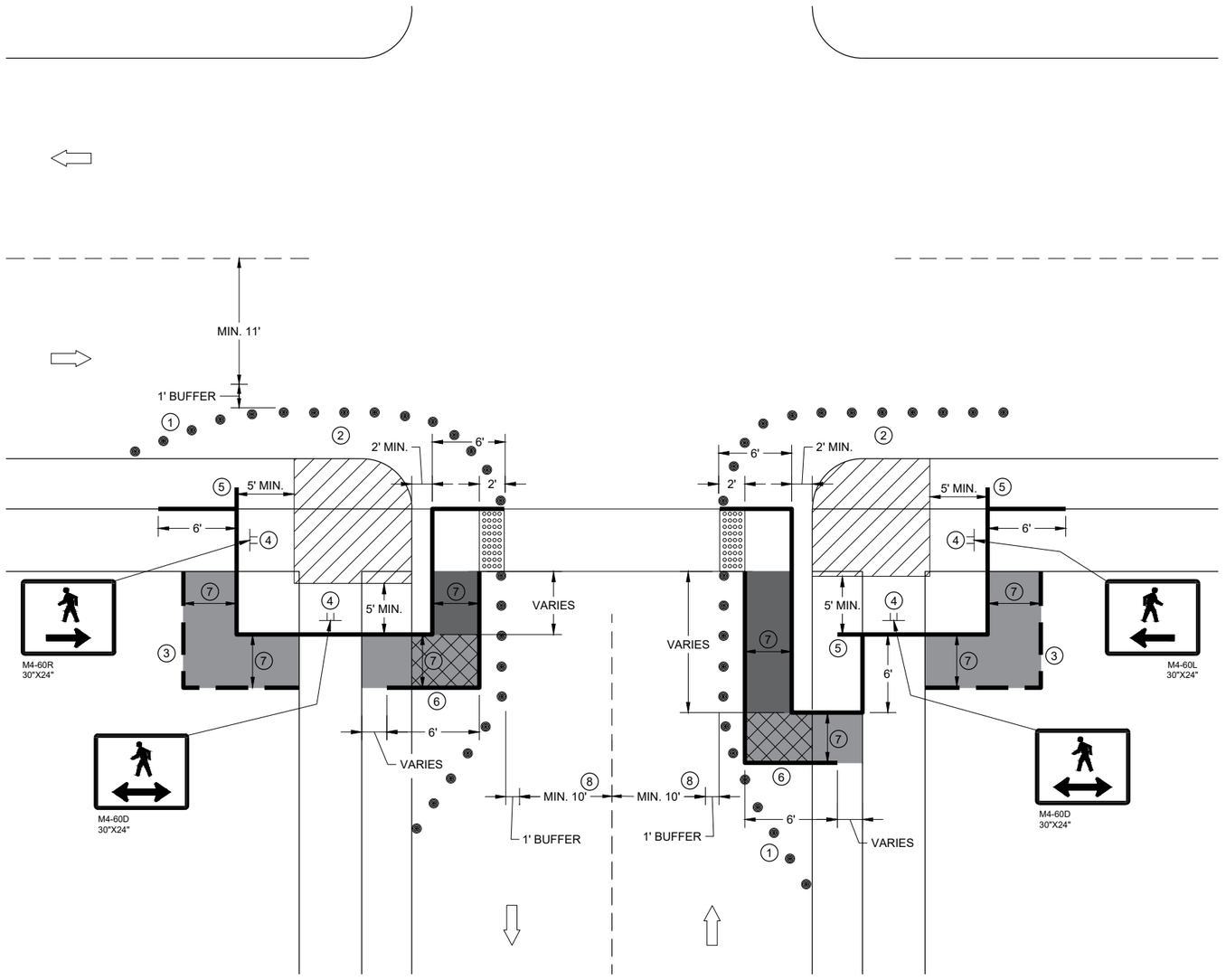


CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

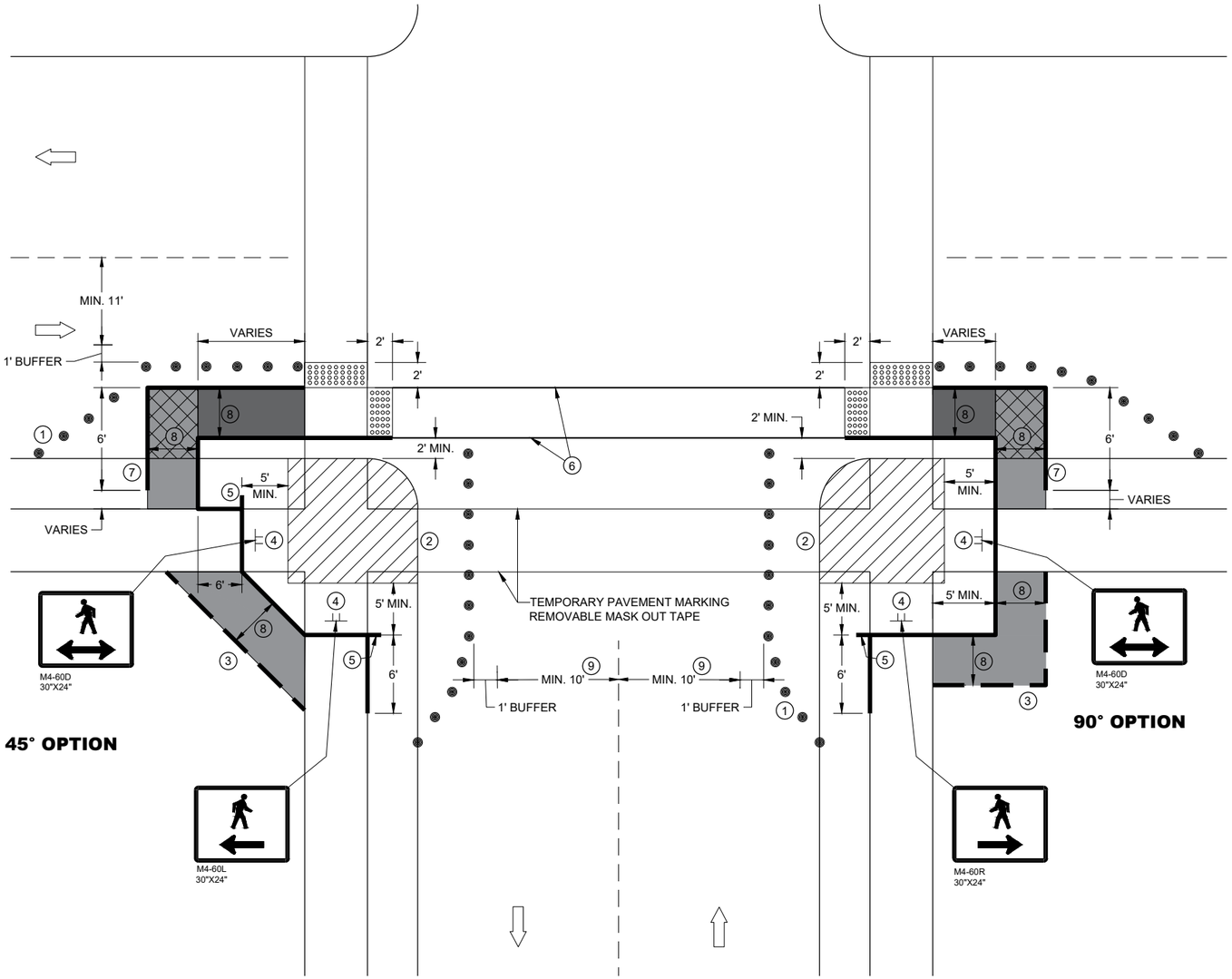
WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30 - 07j

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LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

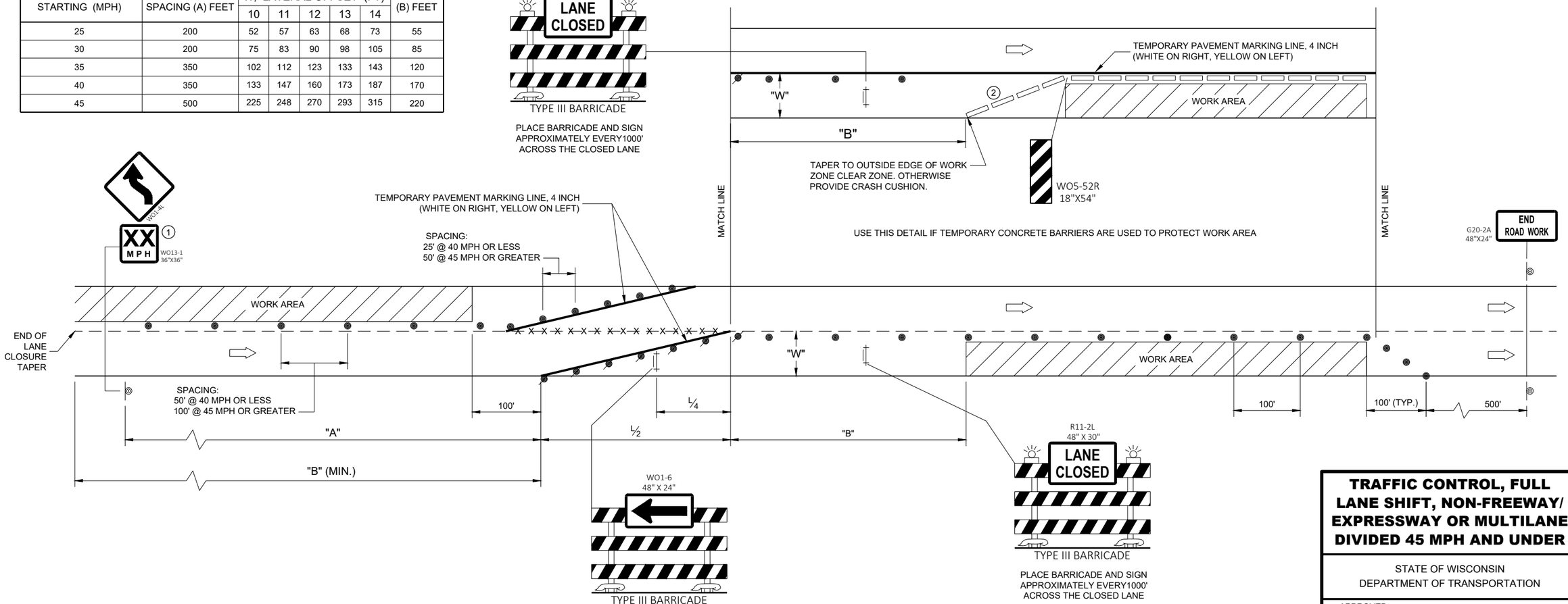
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER
SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220

PLACE BARRICADE AND SIGN APPROXIMATELY EVERY1000' ACROSS THE CLOSED LANE



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40 - 04a

6

SDD 15D40 - 04a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

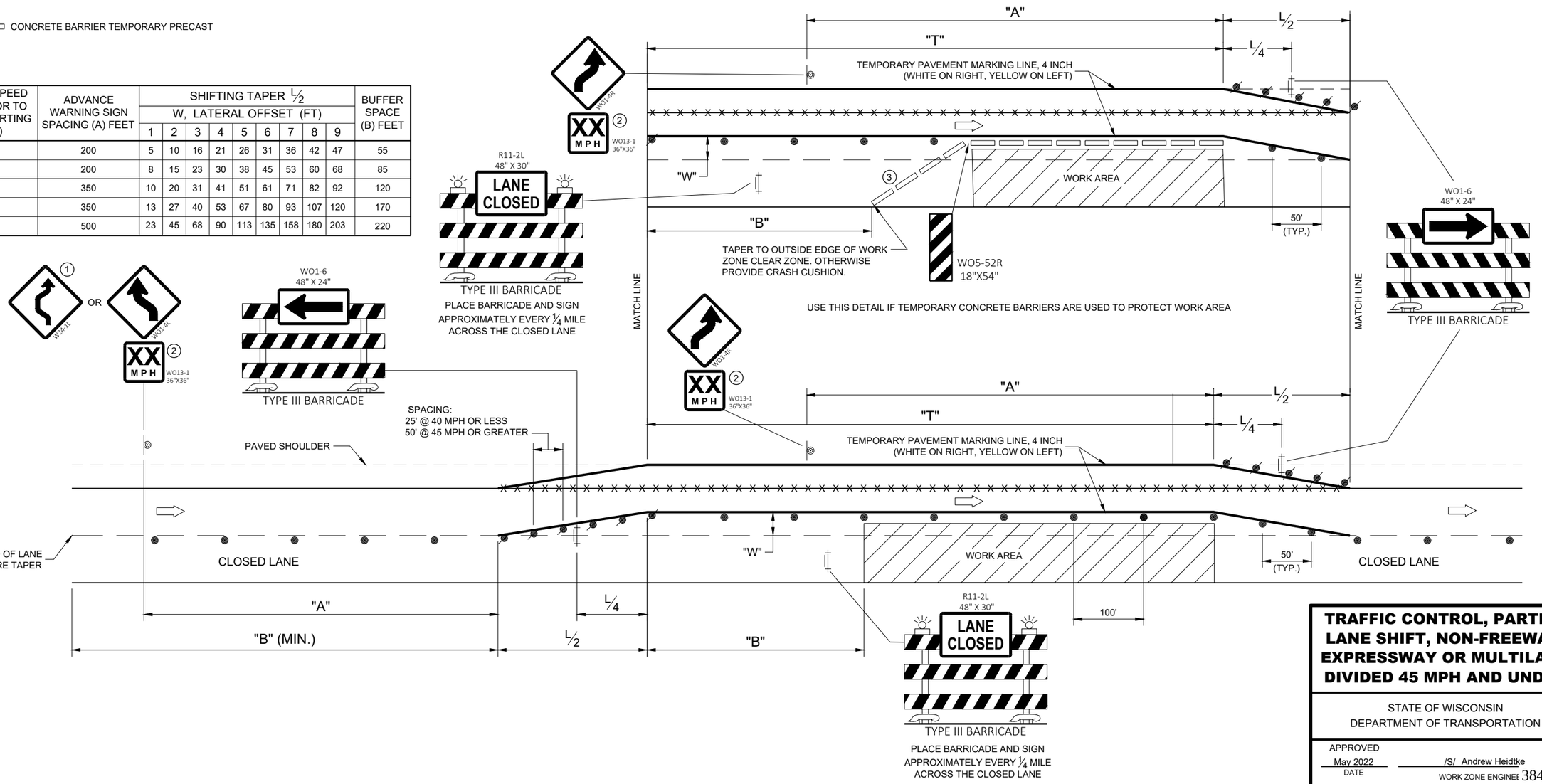
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(3) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

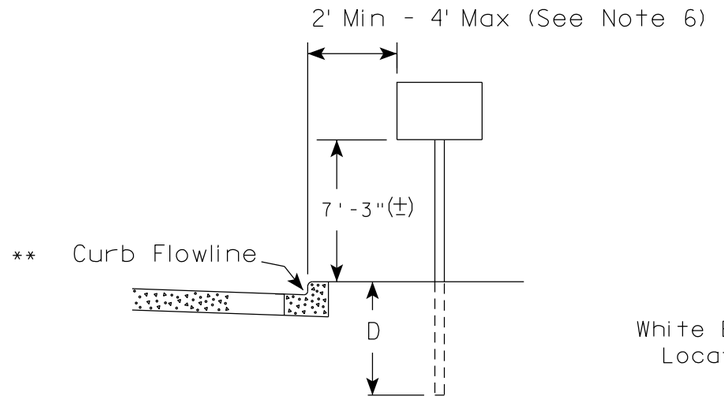
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

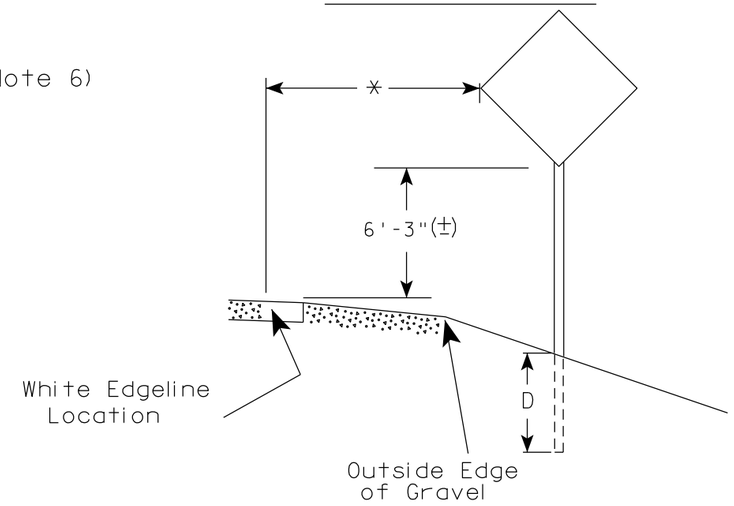
SDD 15D40 - 04c

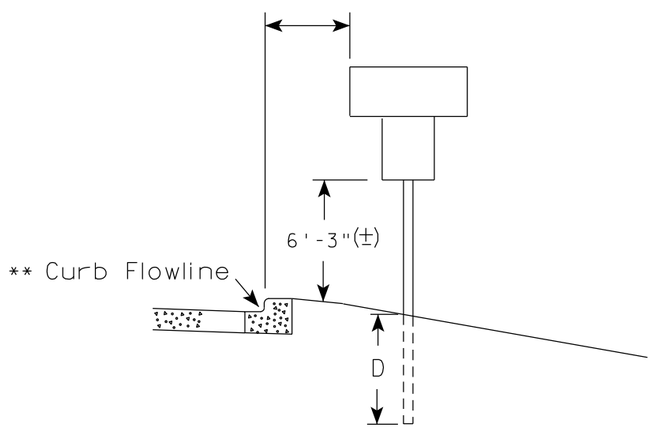
SDD 15D40 - 04c

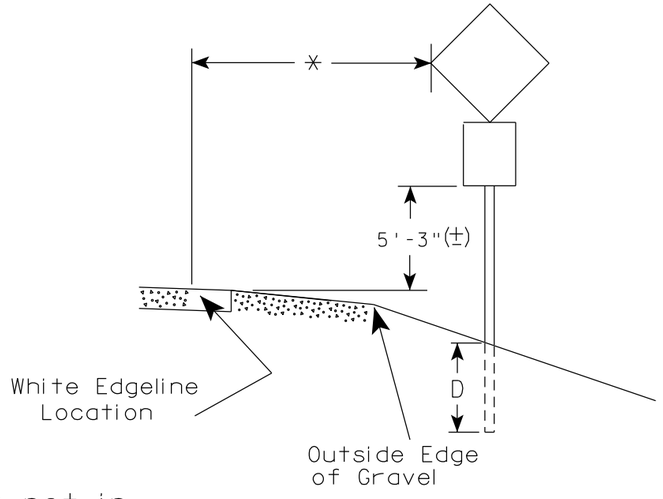
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

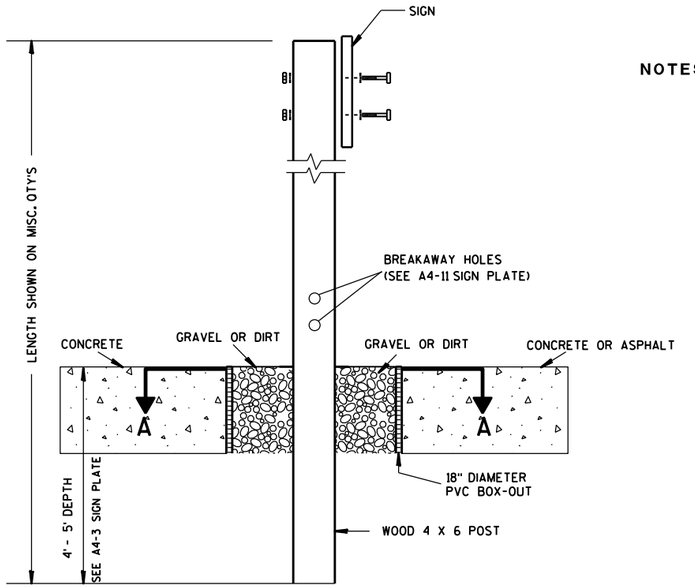
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

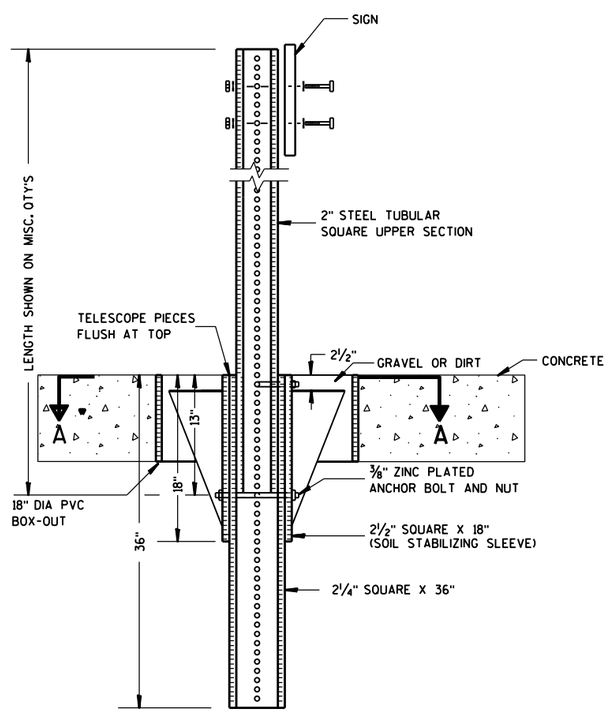
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 385	E



ELEVATION VIEW

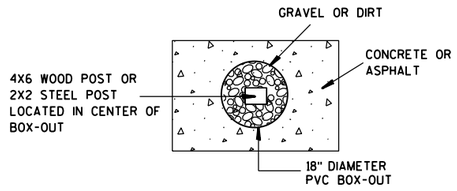
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

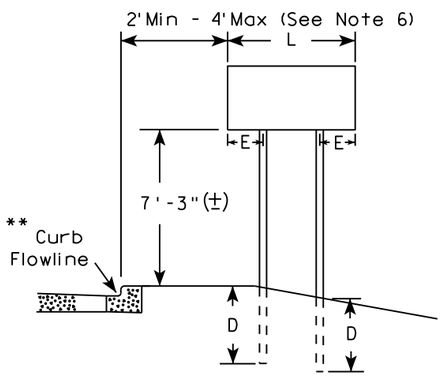
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

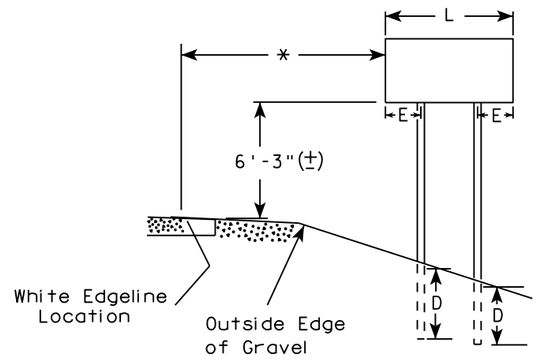
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

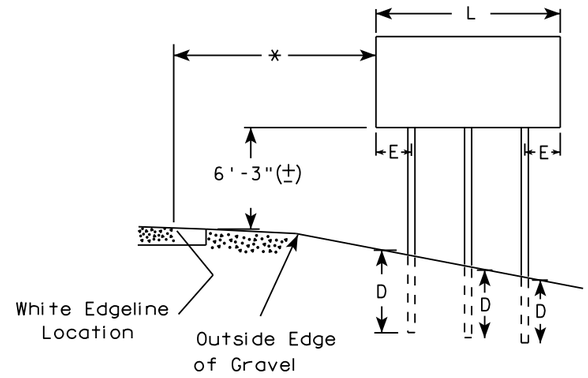
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

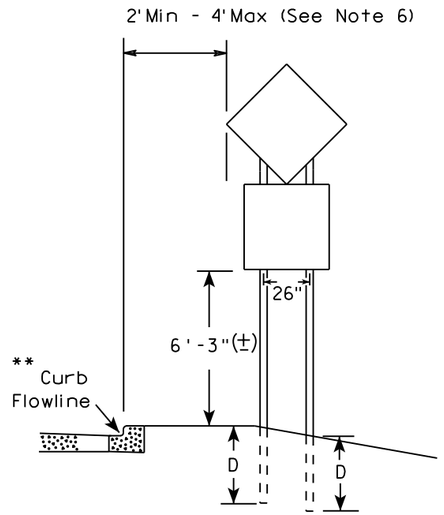
URBAN AREA



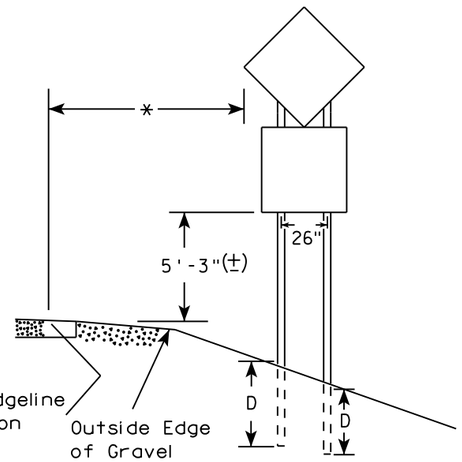
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

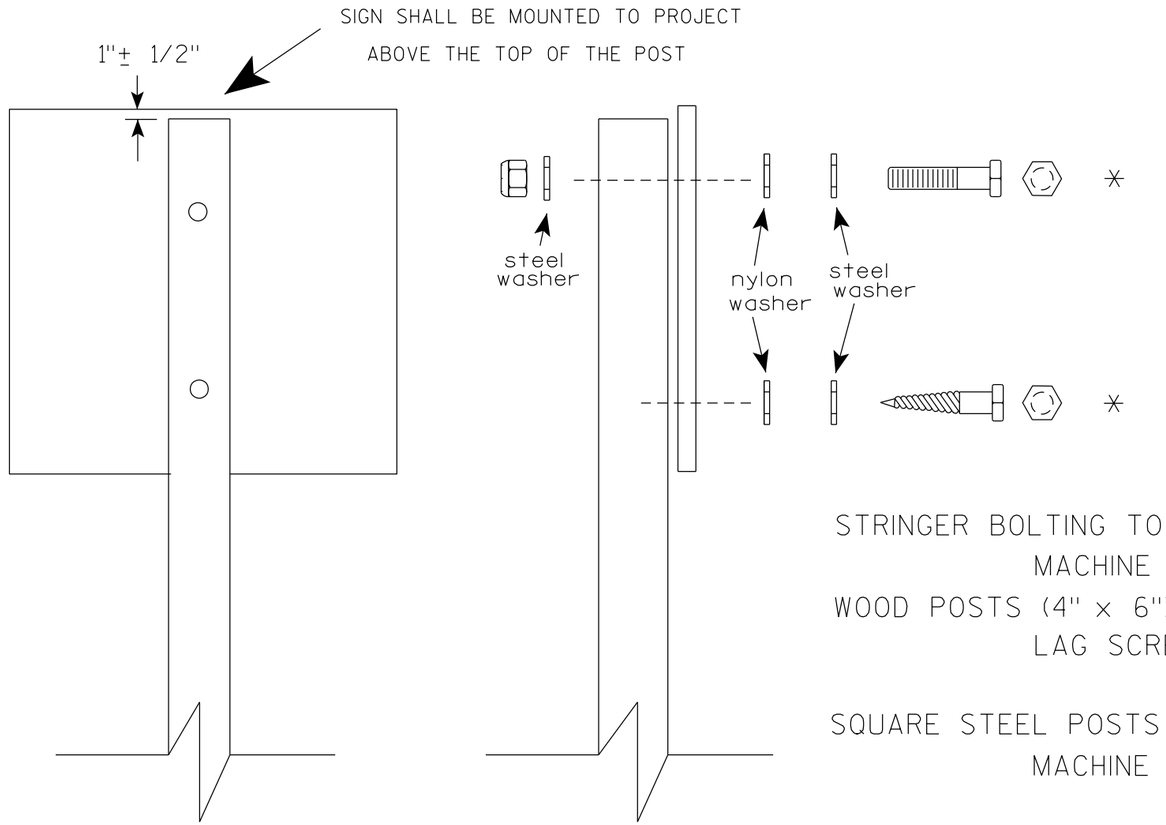
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 387	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

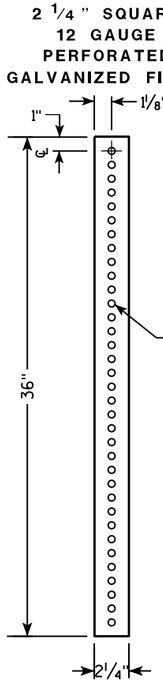
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

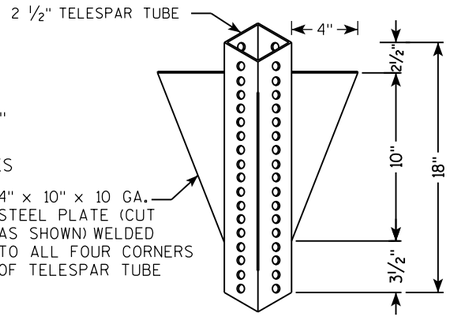
SHEET NO: 388 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

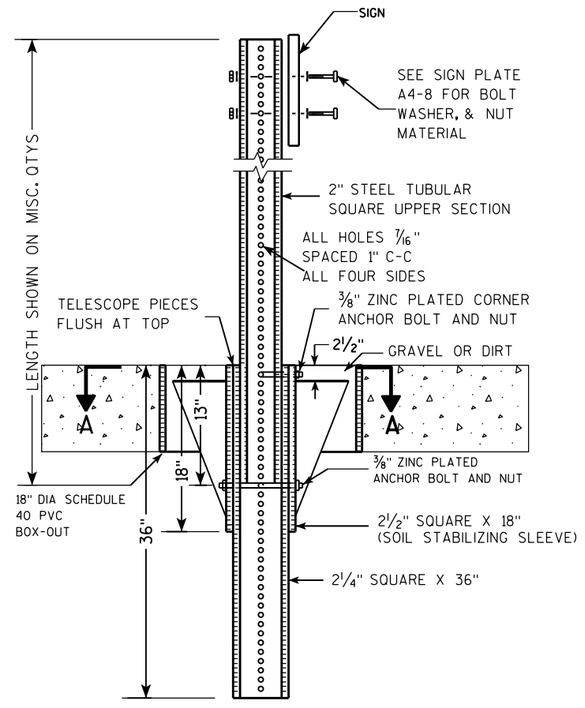
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



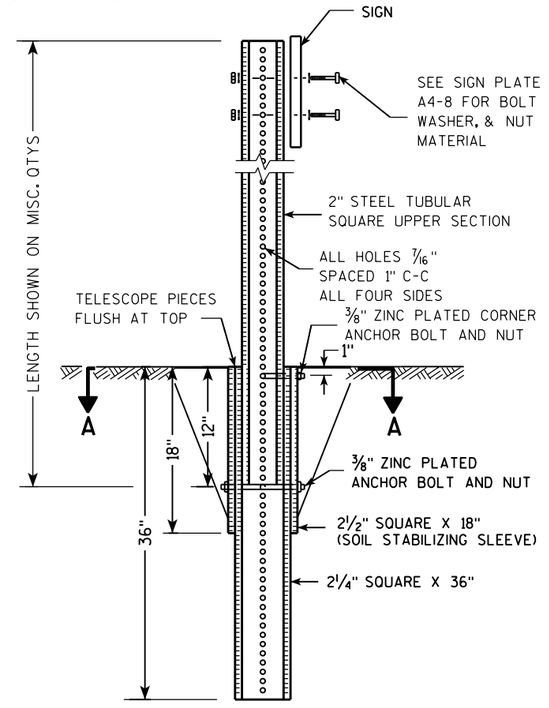
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

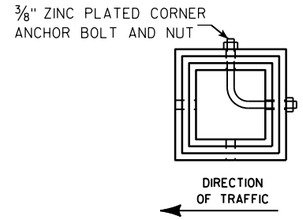


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

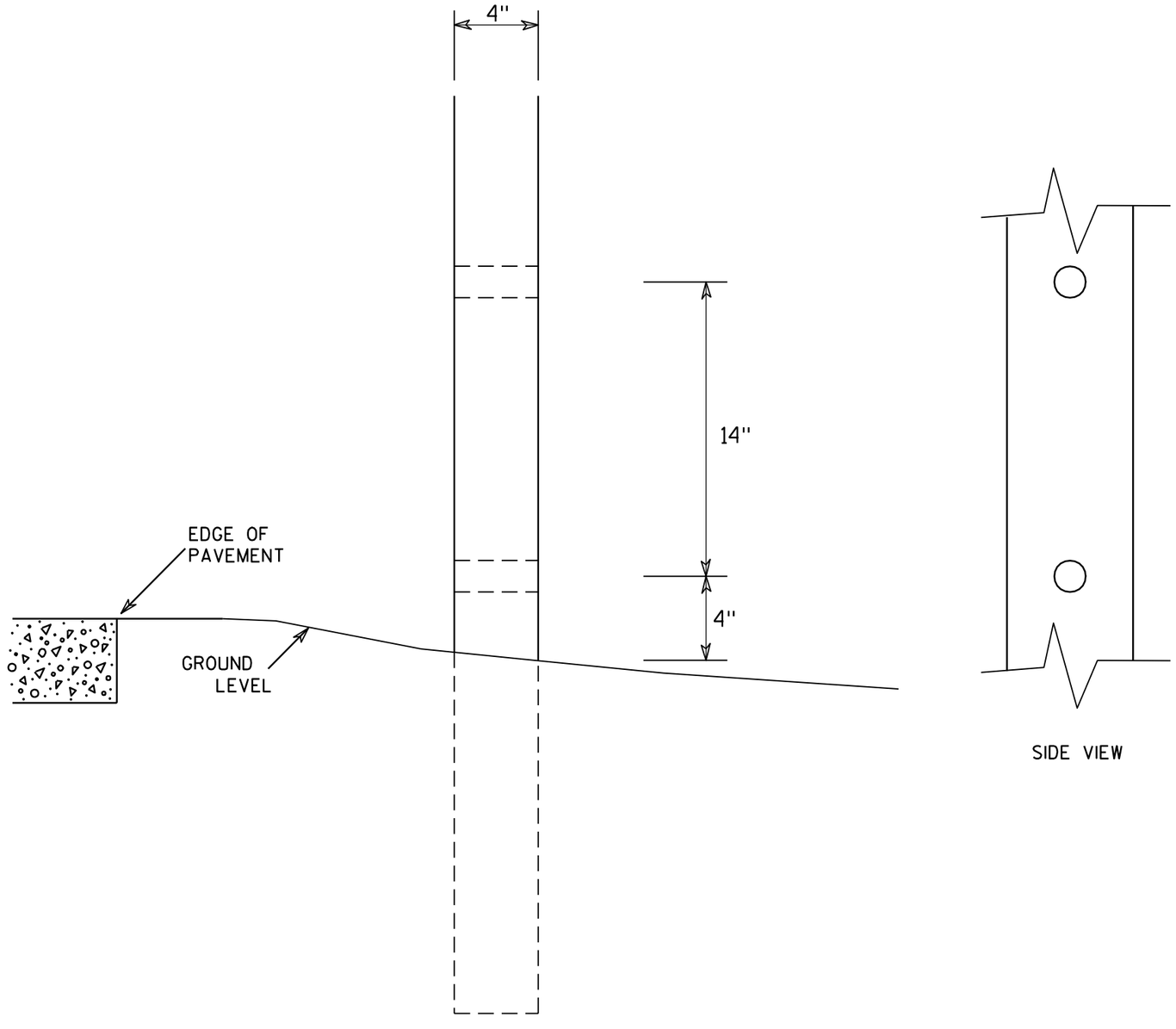
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 389 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

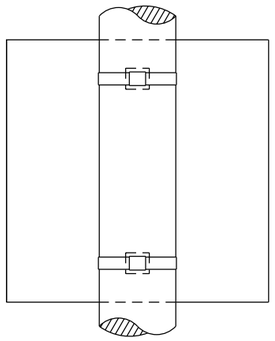
APPROVED Chester J Spang for State Traffic Engineer

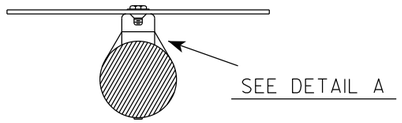
DATE 3/27/97 PLATE NO. A4-11.2

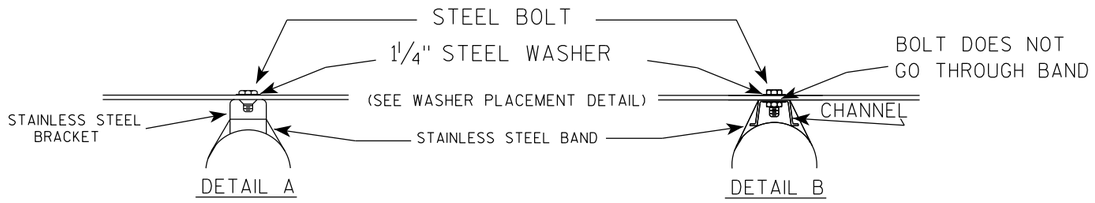
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 390	E

BANDING

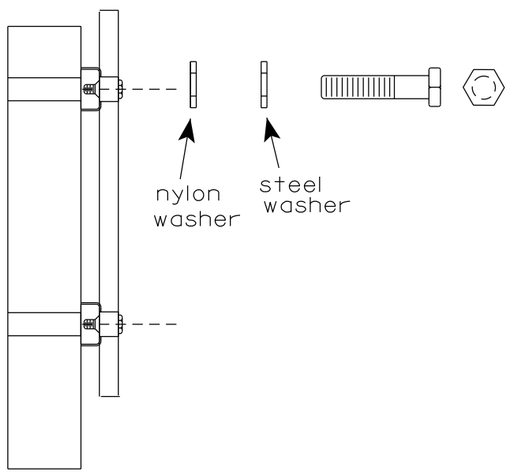
SINGLE SIGN







WASHER PLACEMENT

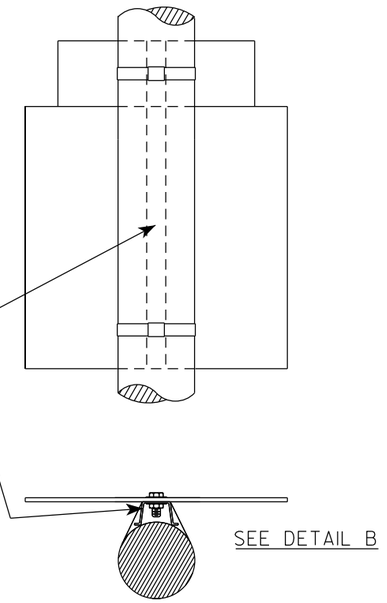


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

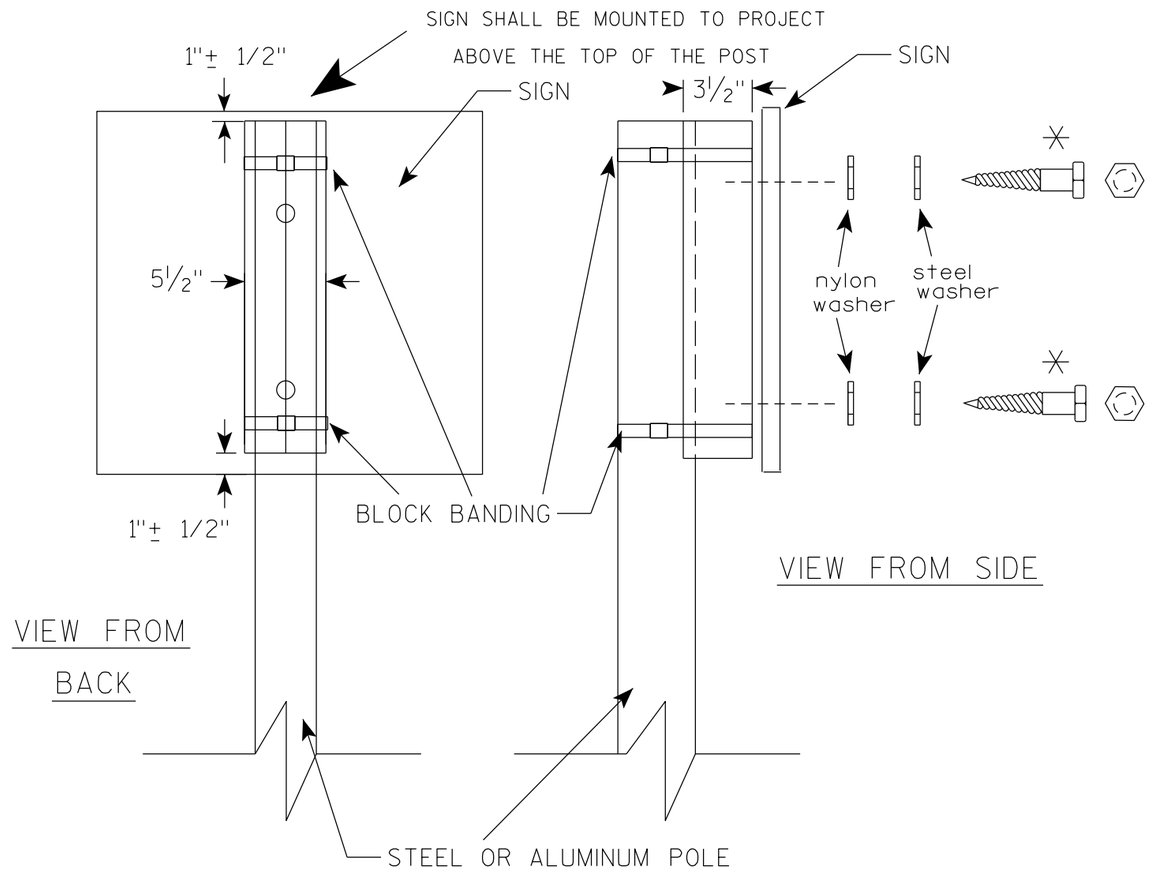
DATE 6/10/19 PLATE NO. A5-9.4

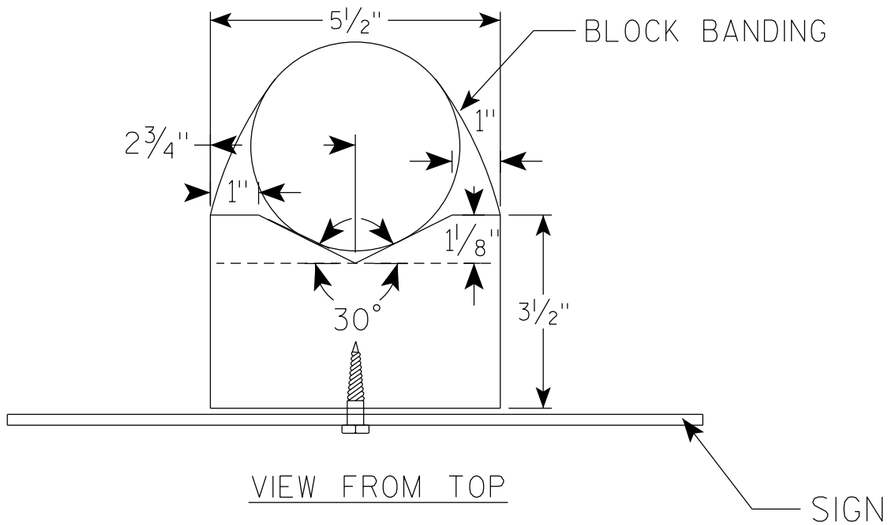
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 391	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

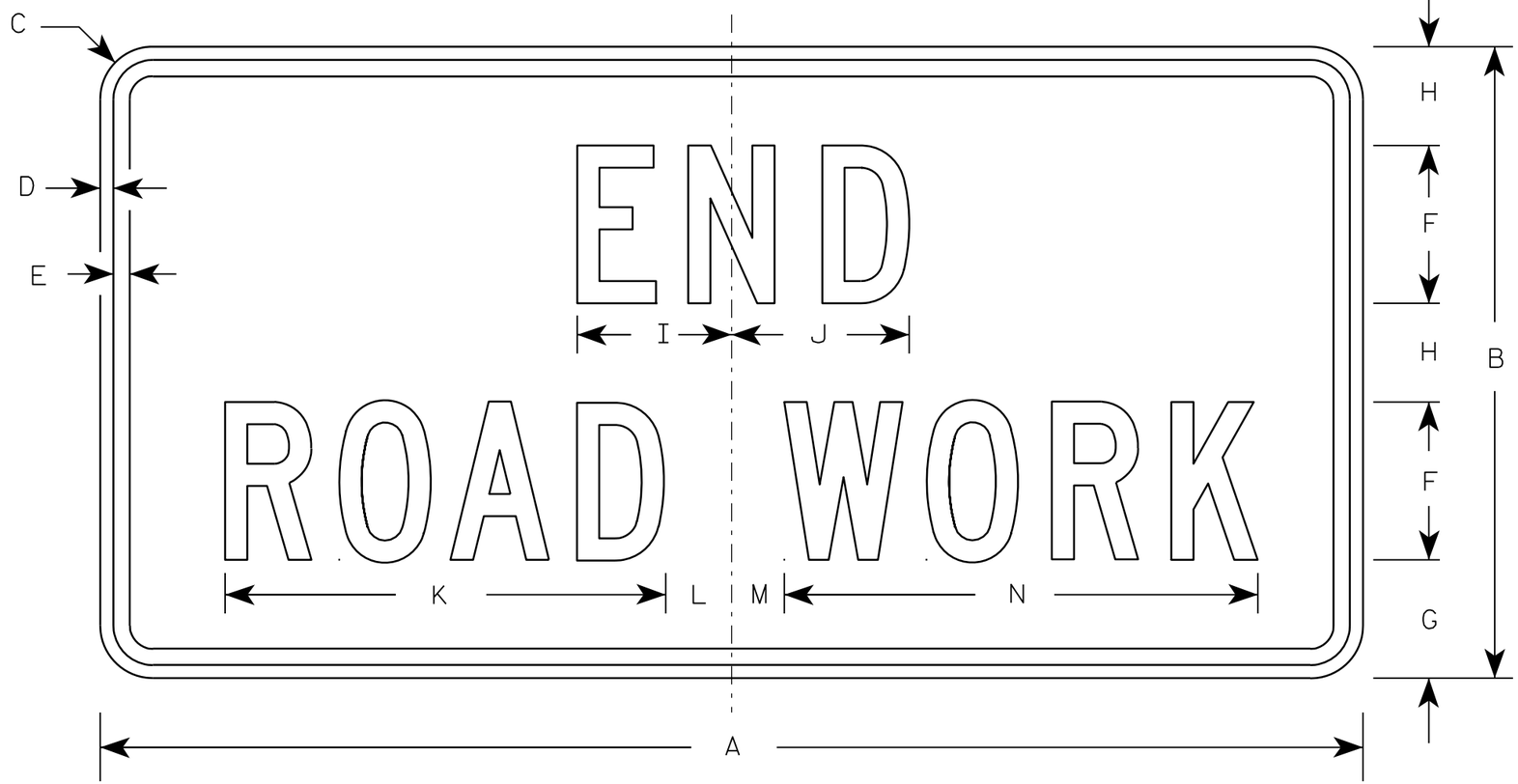
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 392 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

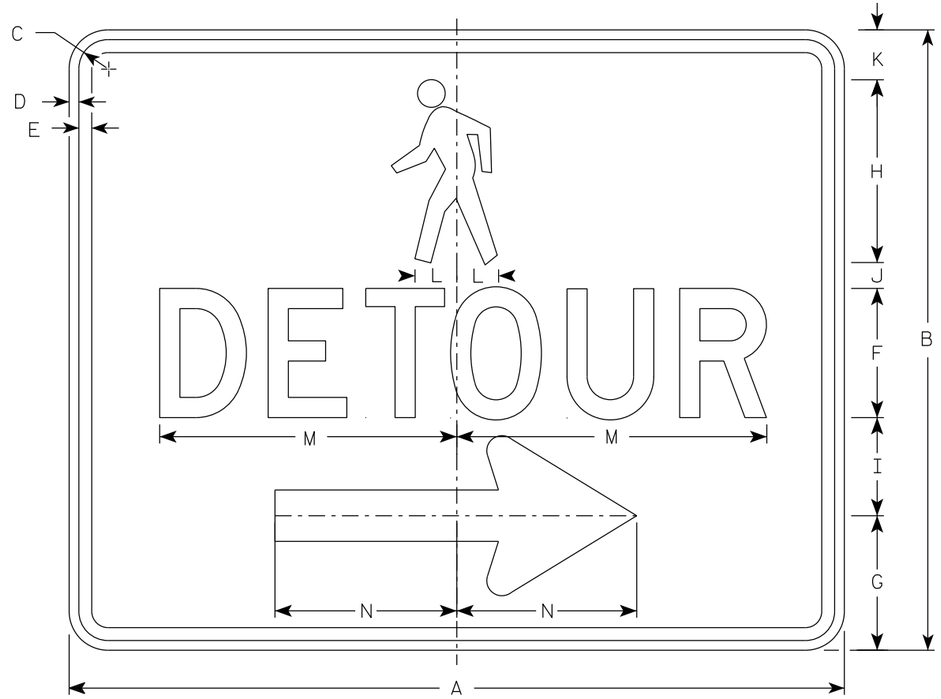
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

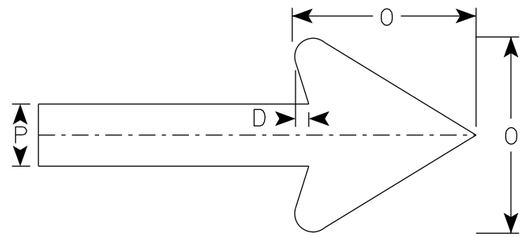
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 393	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

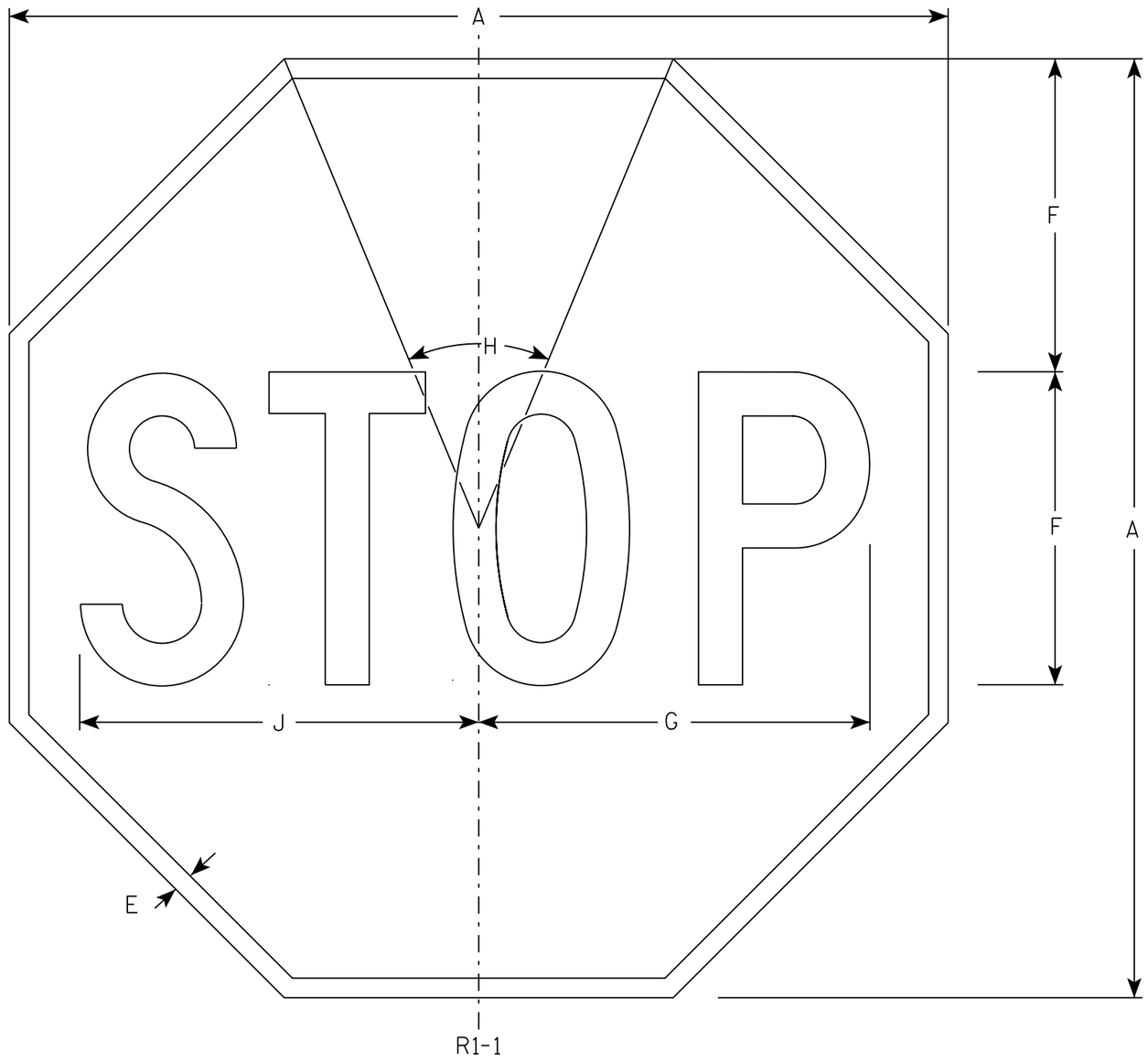
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 394 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

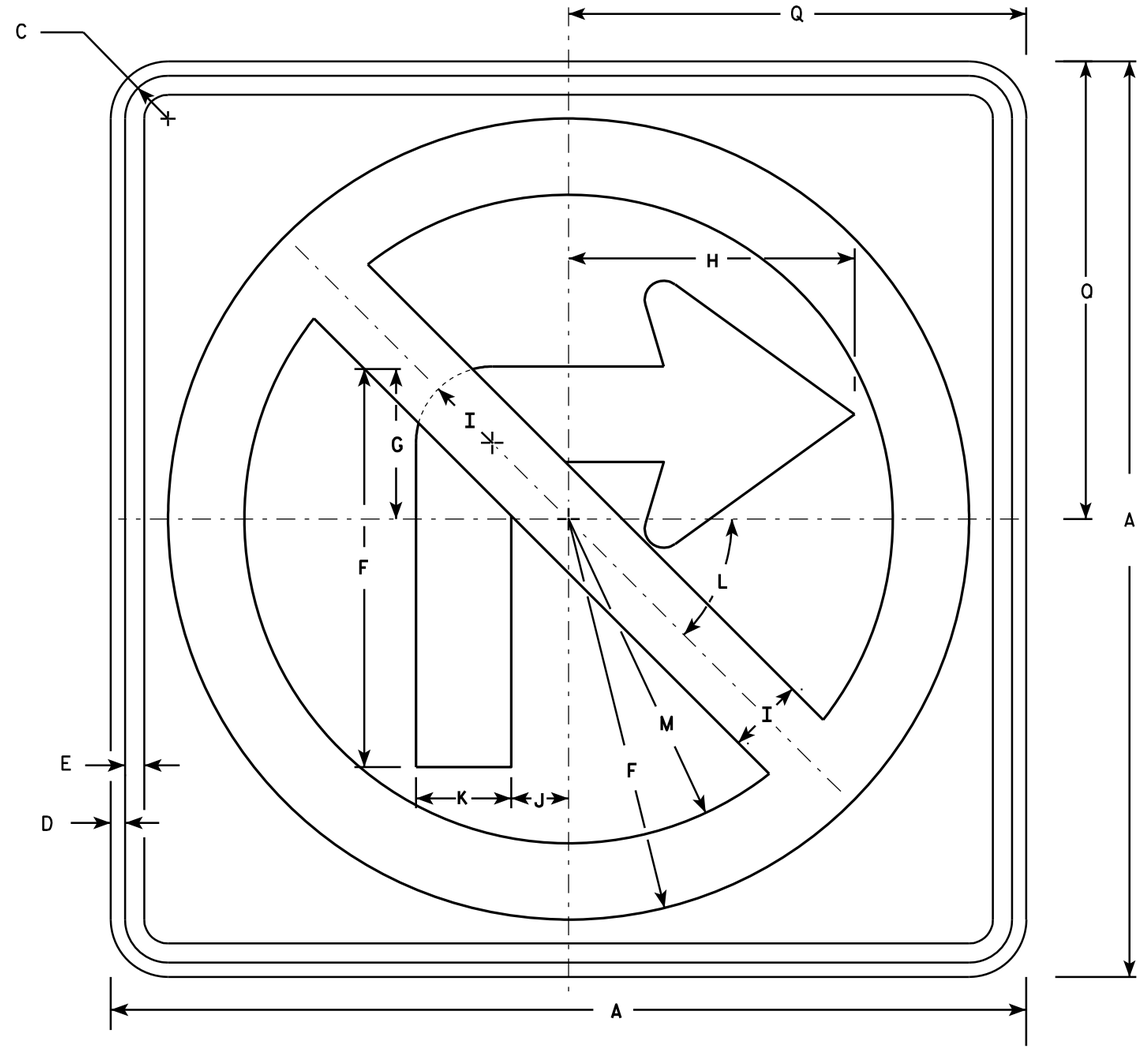
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

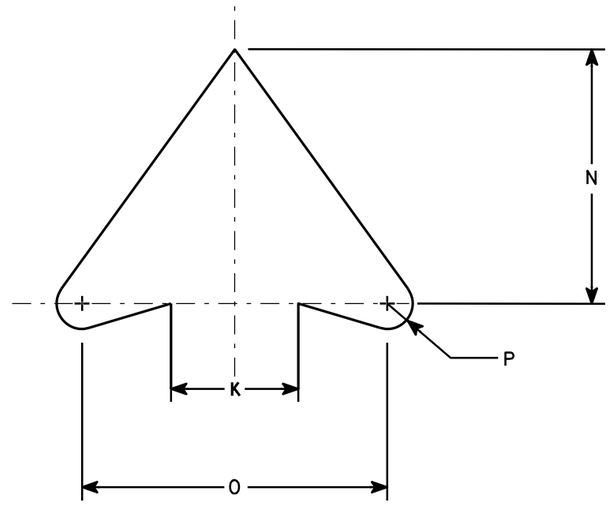
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 395	E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

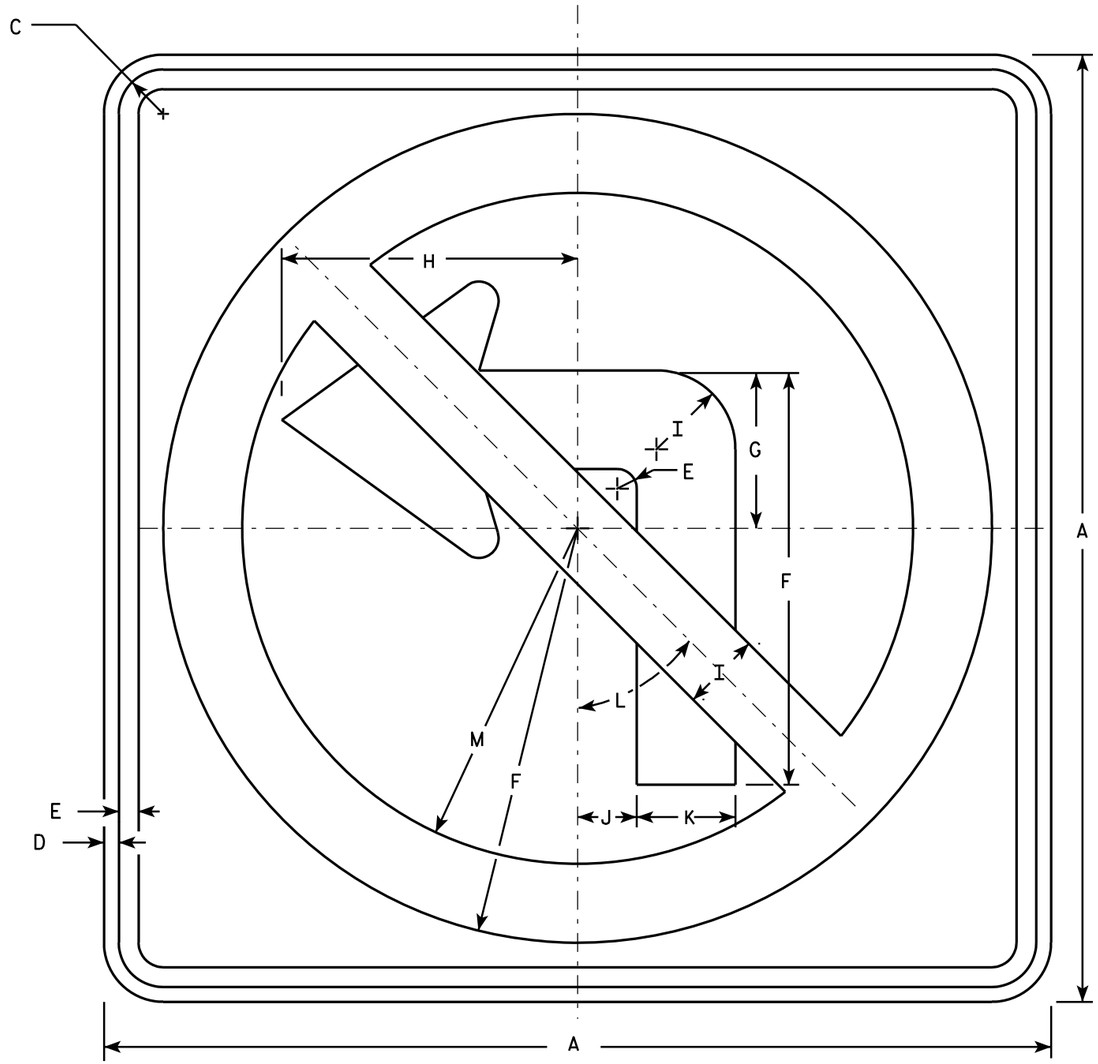
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

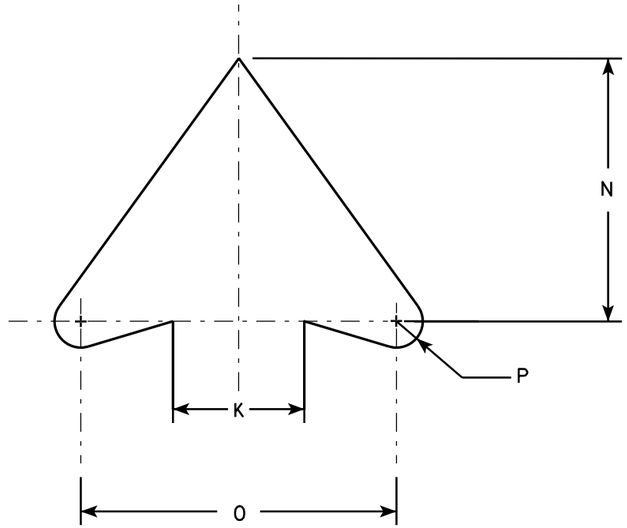
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

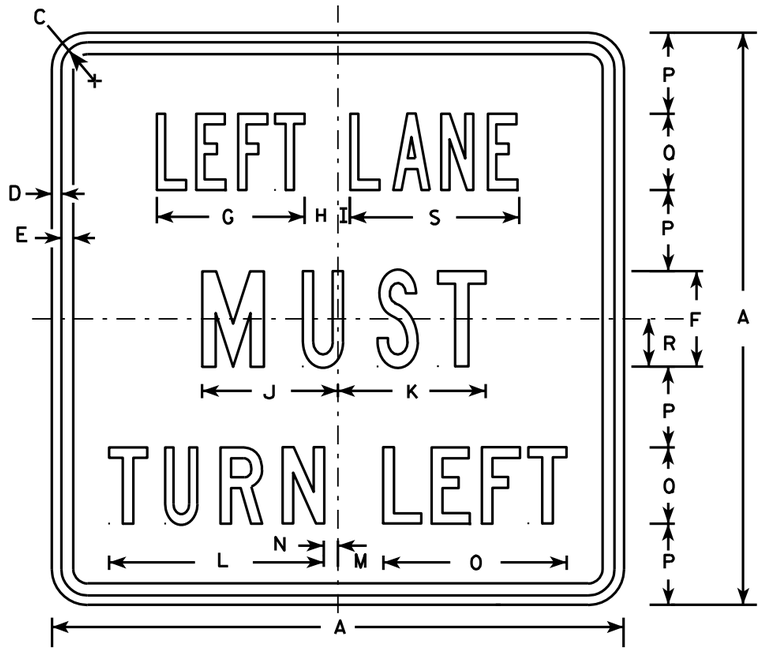
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

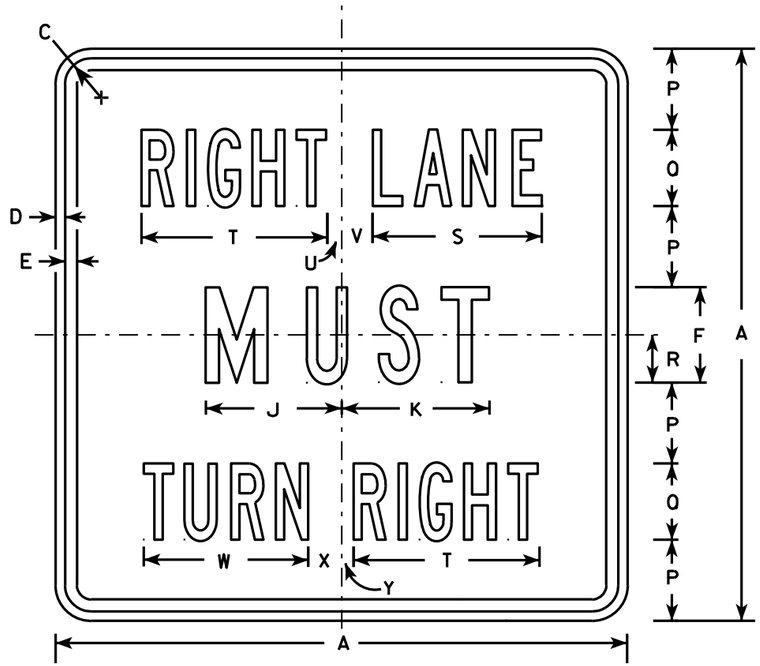
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 397	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

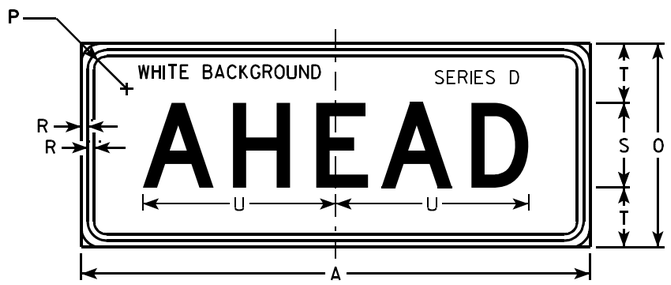
DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E

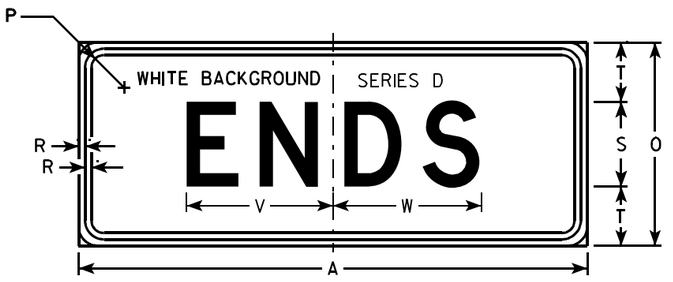
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



R3-17bp

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

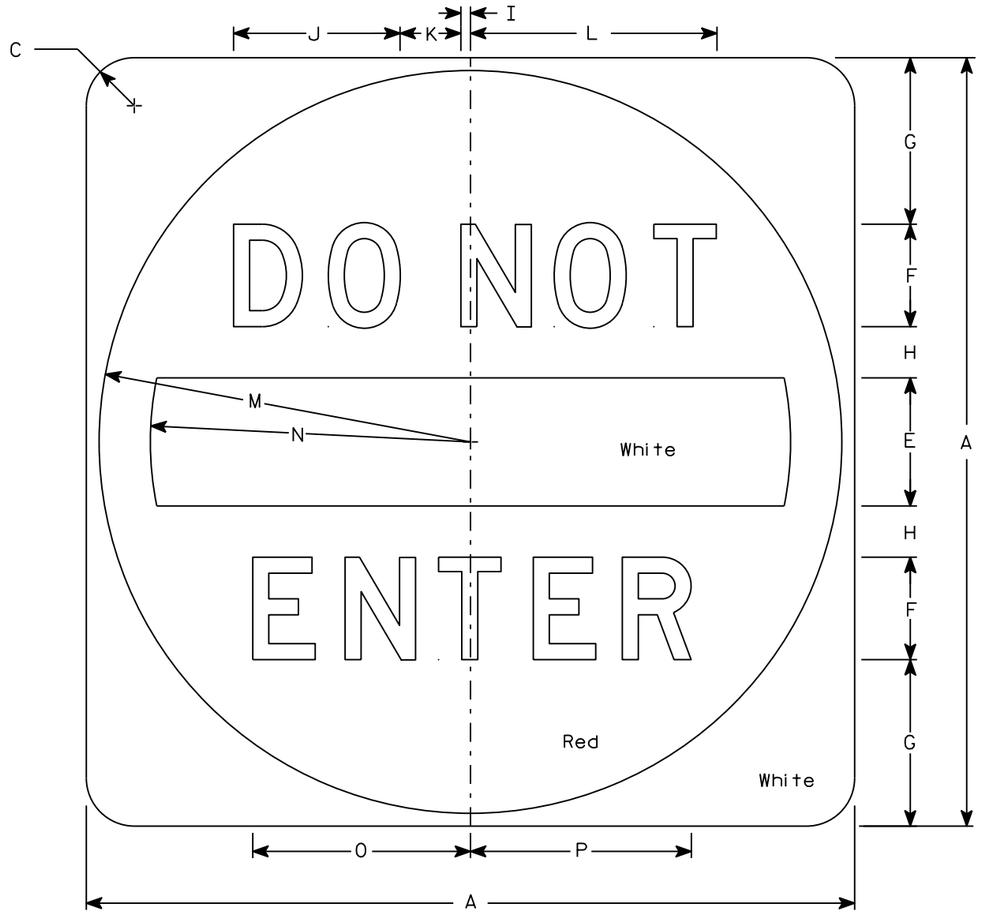
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

SHEET NO: 399 E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

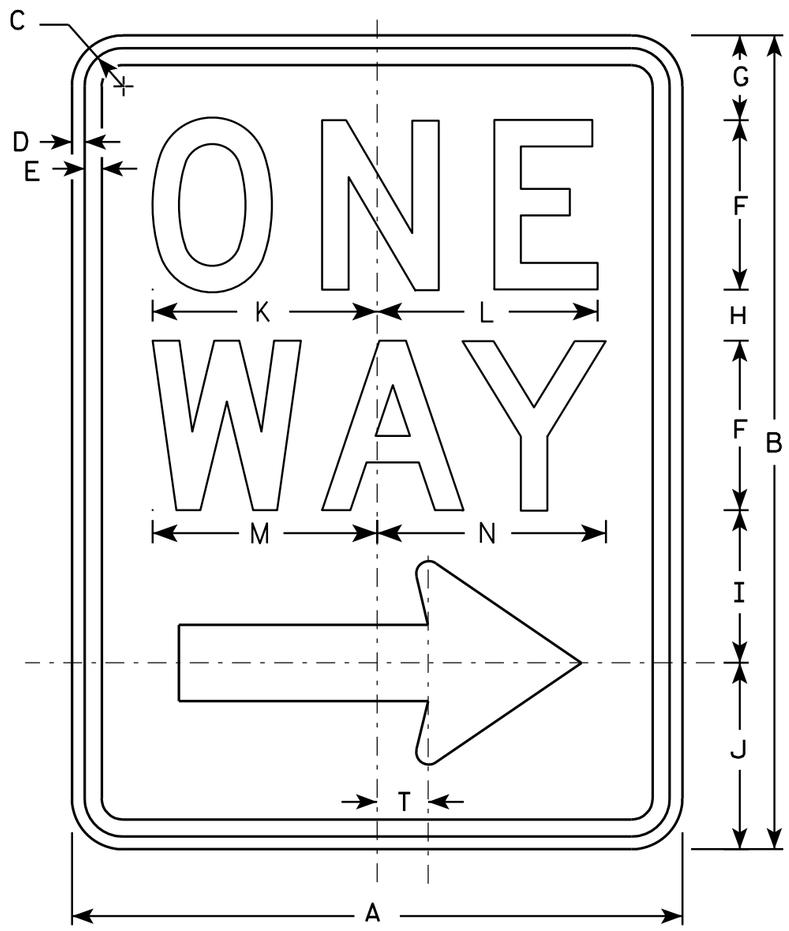
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

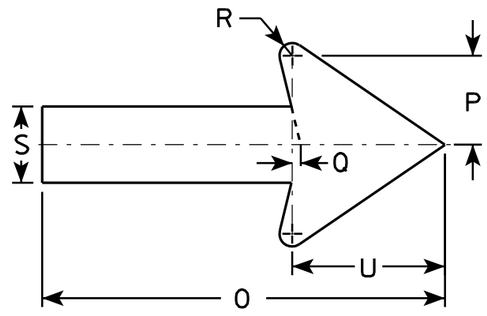
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 400 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

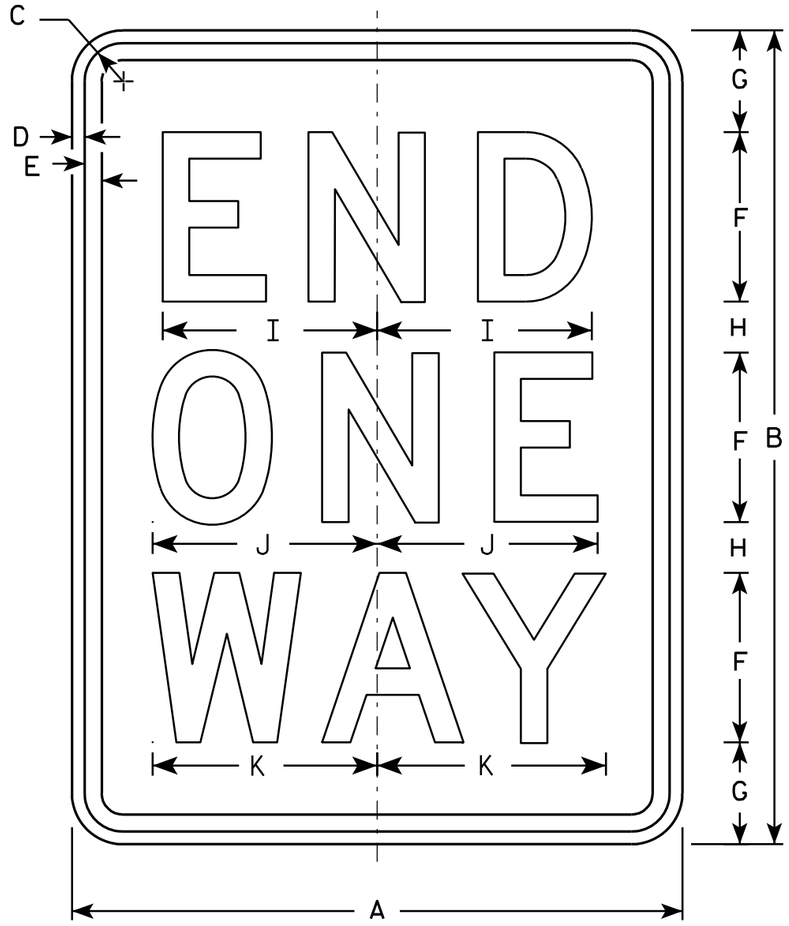
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 401	E



R6-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	8	8 1/8	8 1/2															
2M	30	36	1 3/8	1/2	5/8	8	3 1/4	2 3/4	10 1/8	10 1/2	11 1/2															
3	36	48	1 3/8	1/2	5/8	10	5 1/4	3 1/4	12 5/8	12 3/4	13 3/8															
4	36	48	1 3/8	1/2	5/8	10	5 1/4	3 1/4	12 5/8	12 3/4	13 3/8															
5																										

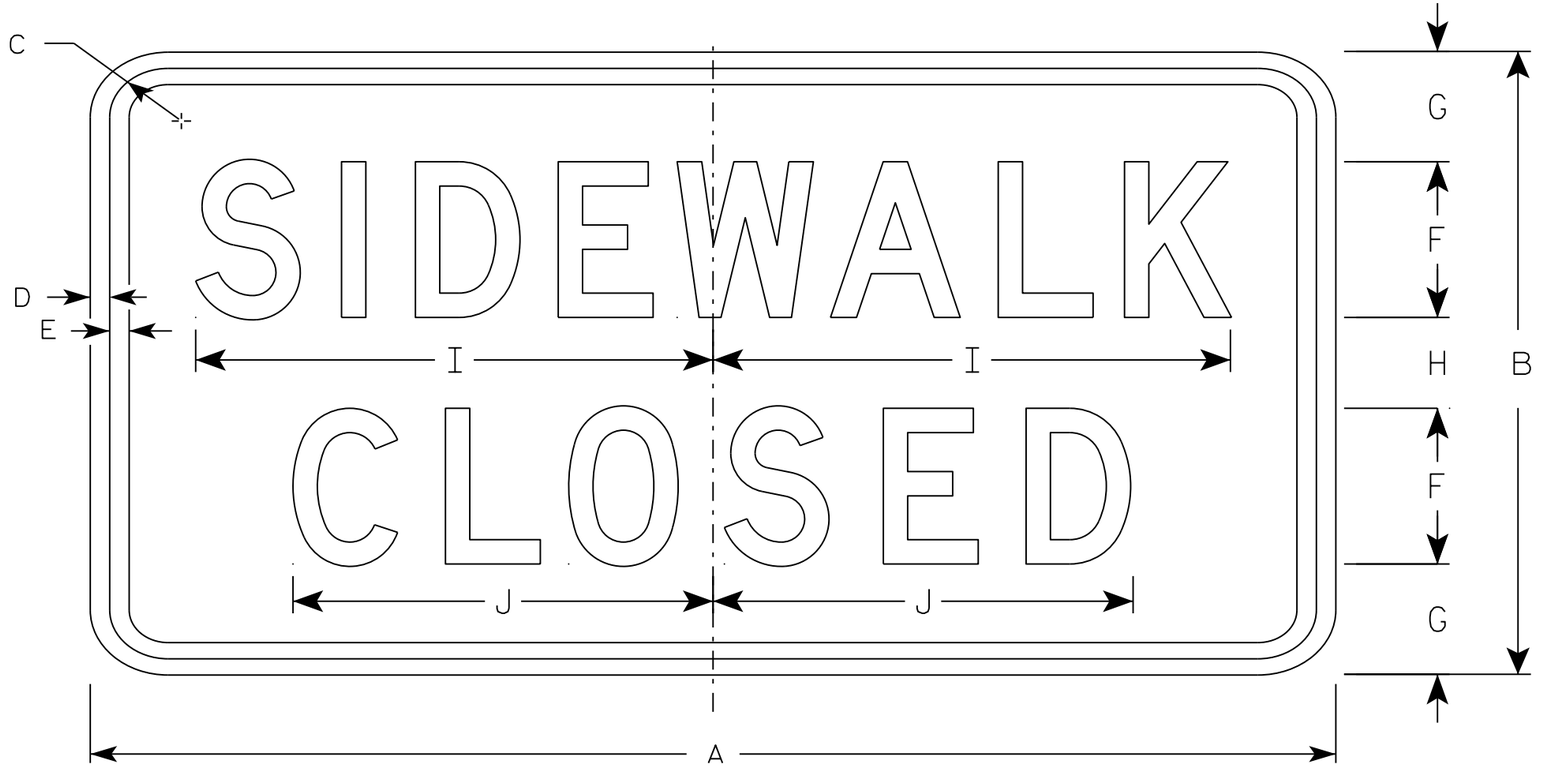
STANDARD SIGN
R6-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-7.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 402	E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

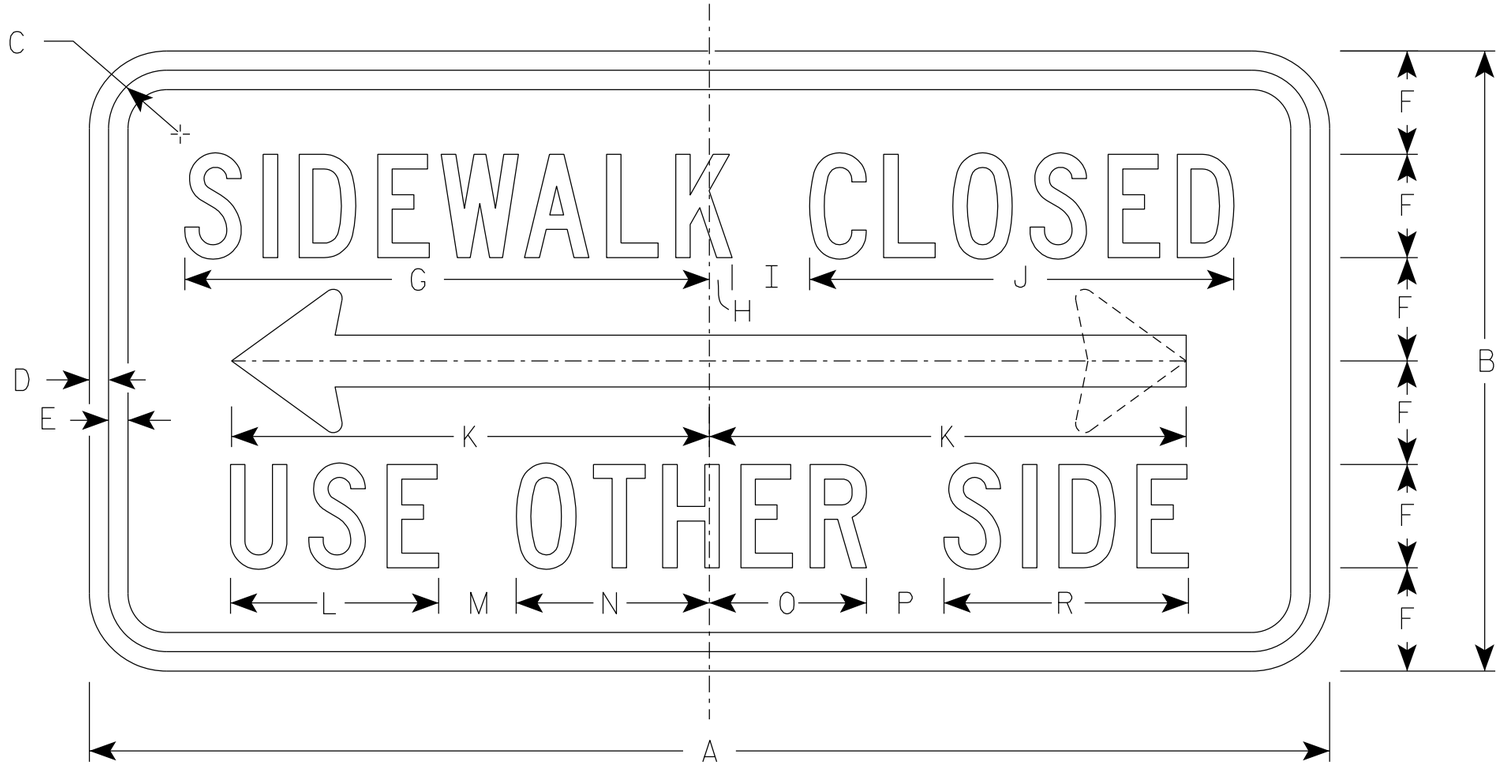
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 403 R9-9.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

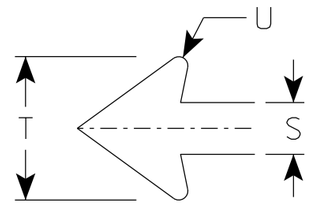
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-10

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for sidewalks. Use Size 3 for paths and trails.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	5	2	4 5/8	3 3/4	2		5 7/8	1 1/4	3 5/8	1/4						3.125
4																											
5																											

STANDARD SIGN
R9-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2020 PLATE NO. R9-10.7

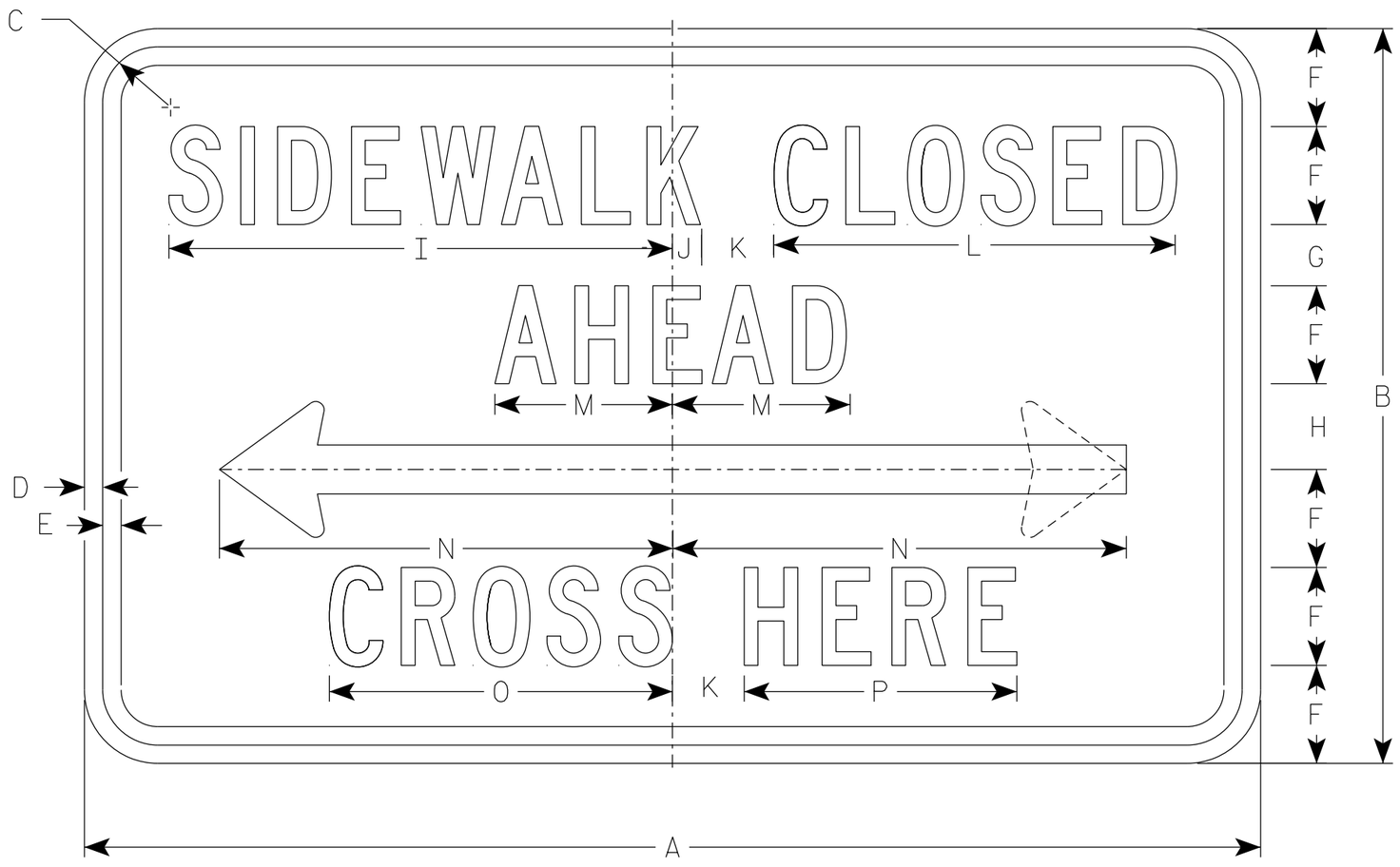
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 404	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R910.dgn PLOT DATE : 07-APRIL-2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

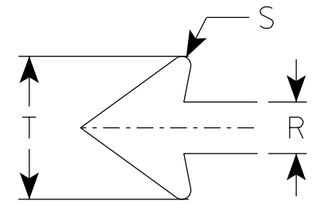
WISDOT/CADDS SHEET 42

7

7



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
6. R9-11 D (double arrow)
   R9-11 L (left arrow)
   R9-11 R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

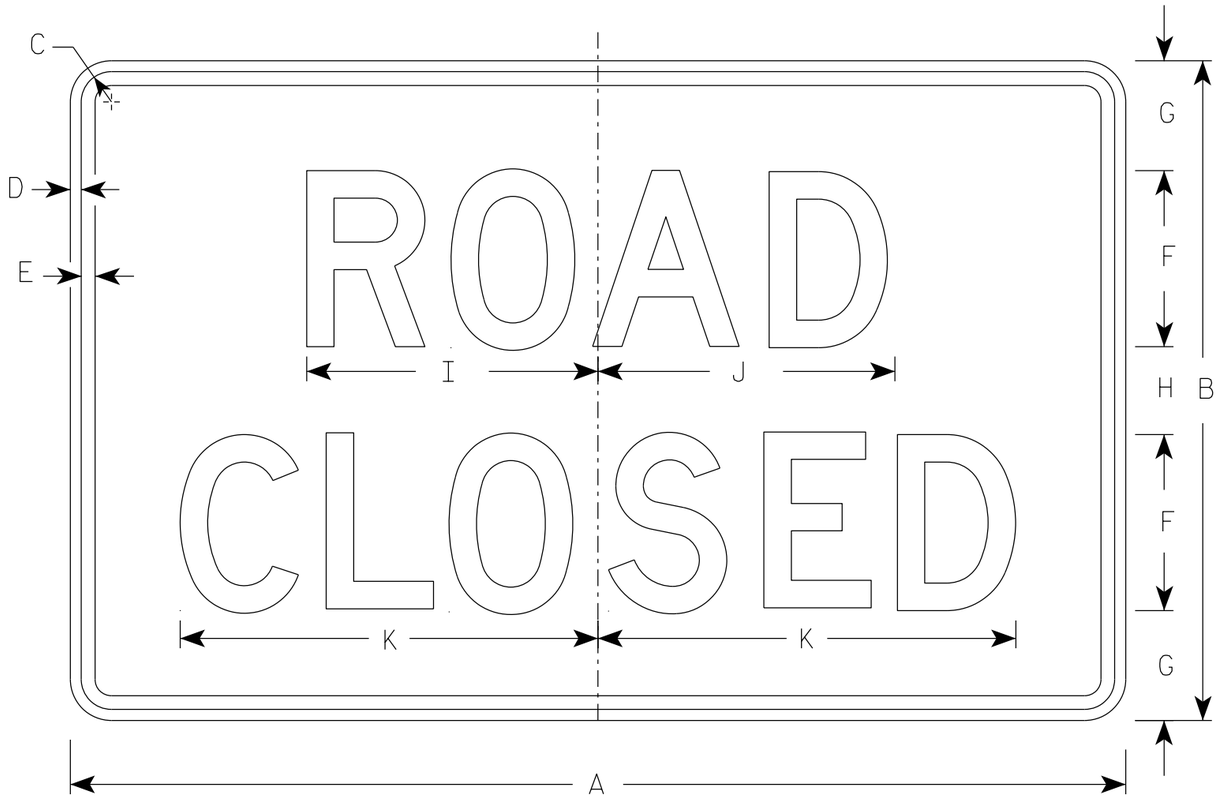
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/30/2021 PLATE NO. R9-11.4

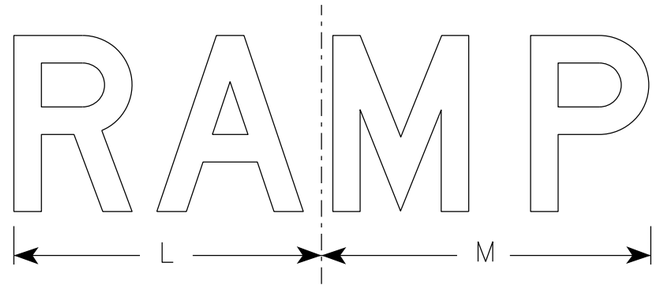
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 405 | E



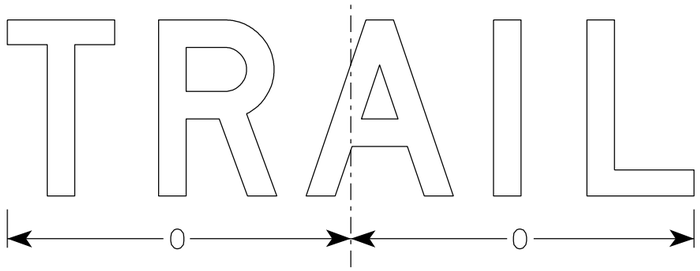
R11-2

NOTES

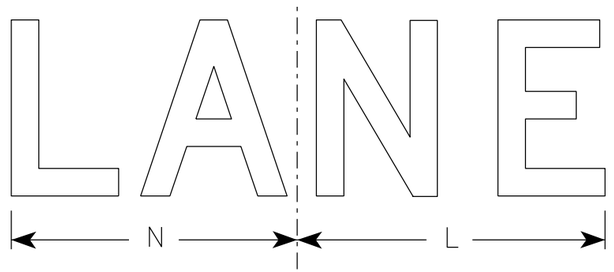
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

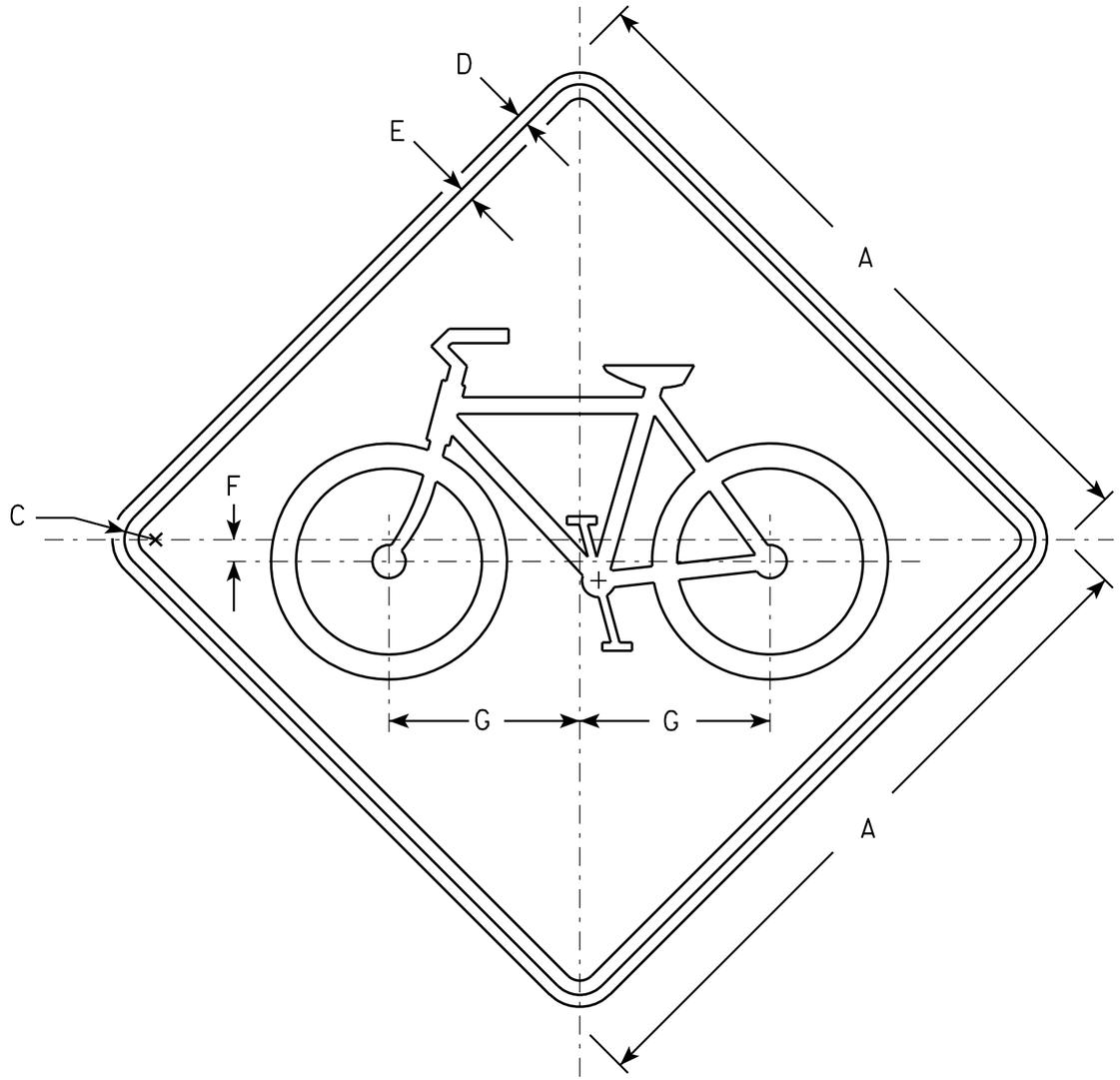
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 406	E



W11-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/4	1/2	3/4	6 5/8																				4.0
2S	30		1 3/8	1/2	5/8	1	8 1/2																				6.25
2M	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
3	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
4	48		2 1/4	3/4	1	1 5/8	13 3/8																				16.0
5																											16.0

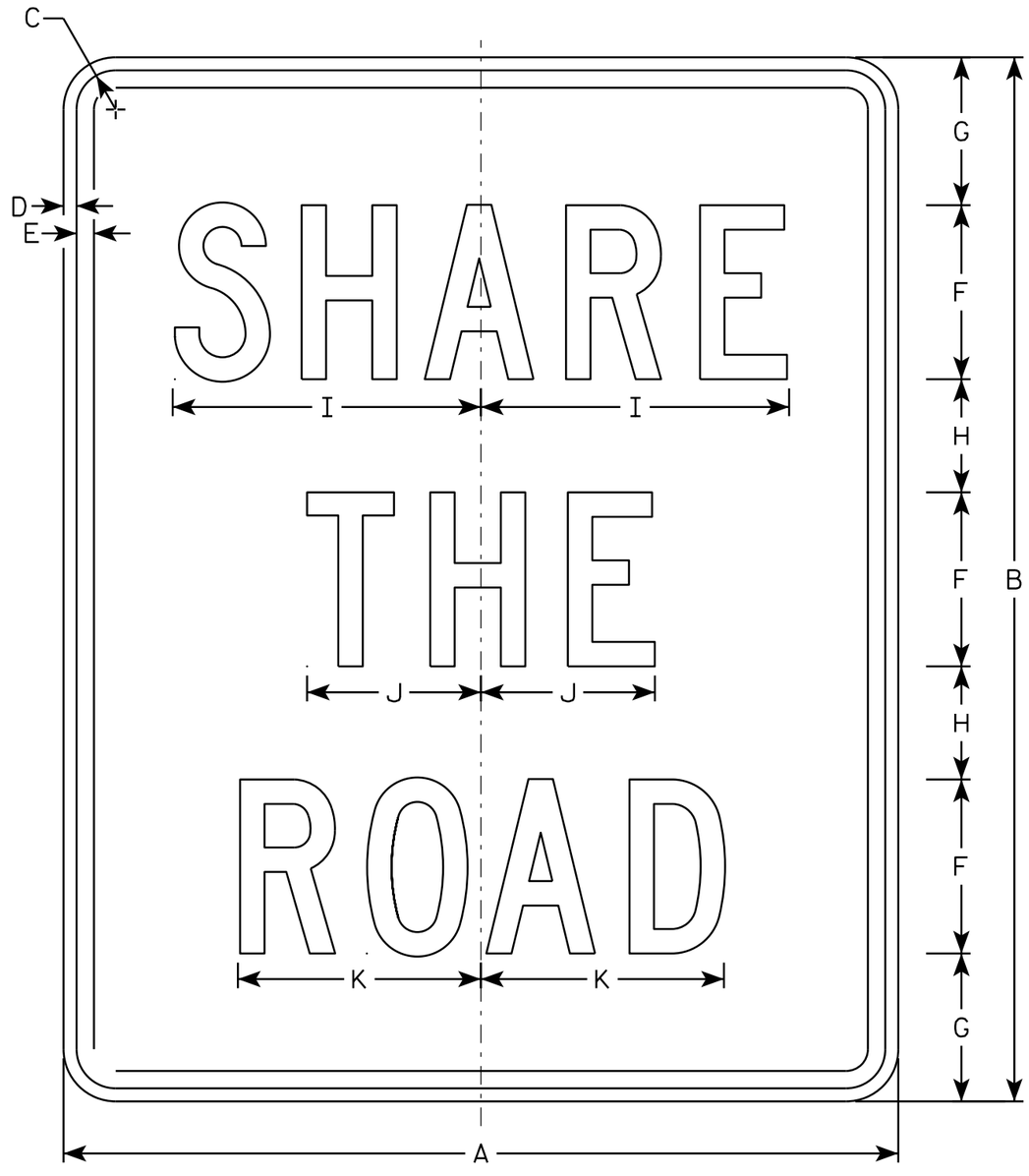
STANDARD SIGN
W11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. W11-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 407 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W16-1P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
2M	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
3	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
4	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
5																											

STANDARD SIGN
W16-1P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

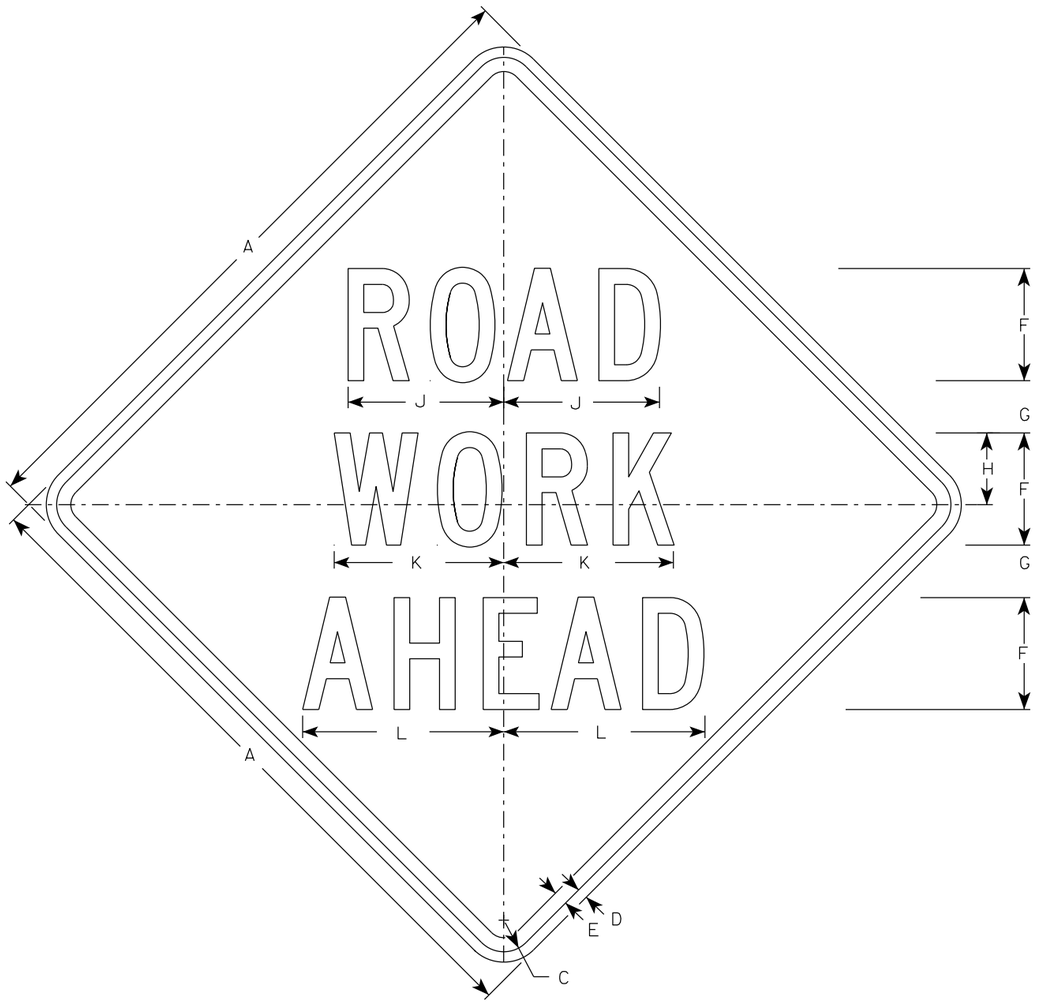
DATE 9/21/11 PLATE NO. W16-1P.2

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

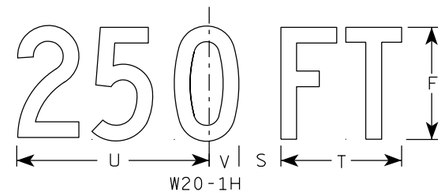
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W161P.DGN PLOT DATE : 27-JUL-2015 13:51 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.280853:1.000000
WISDOT/CADDS SHEET 42

NOTES

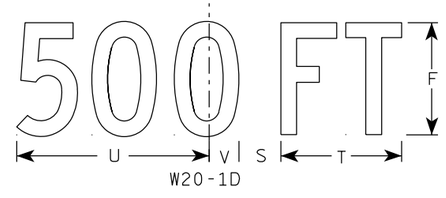
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A

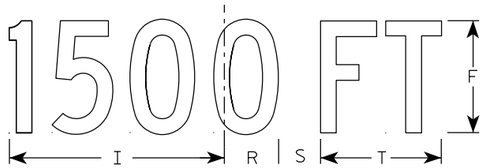


W20-1H

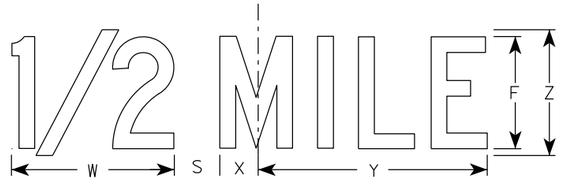


W20-1D

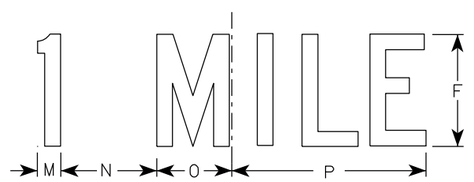
W20-1C



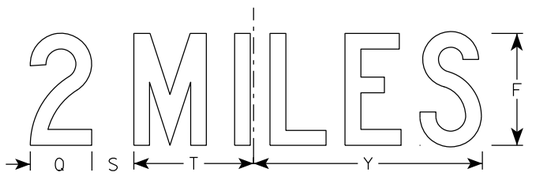
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

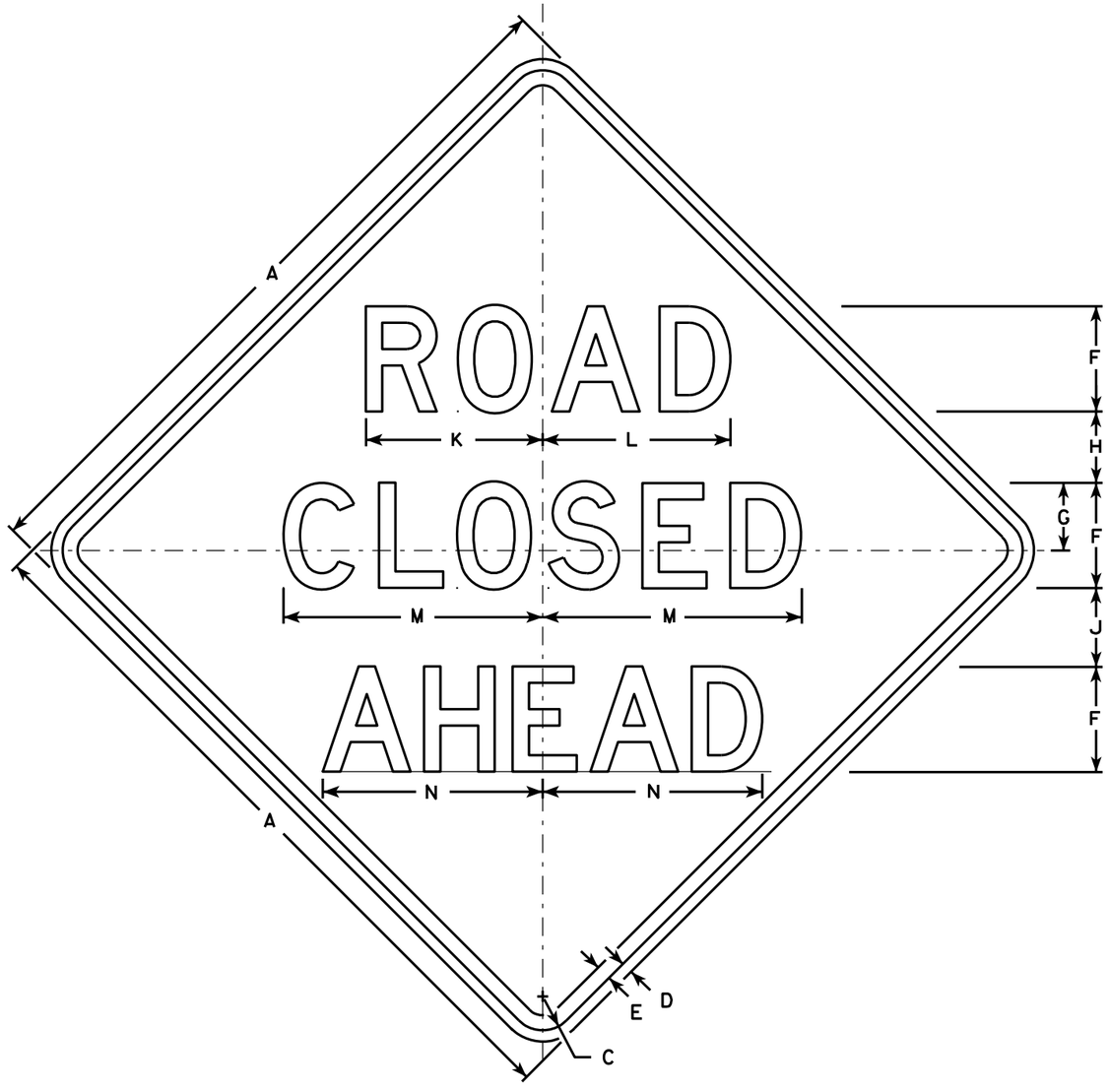
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

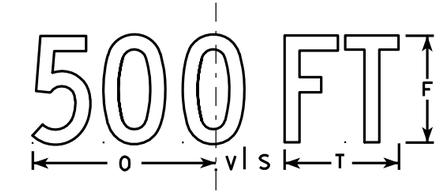
WISDOT/CADDS SHEET 42

7

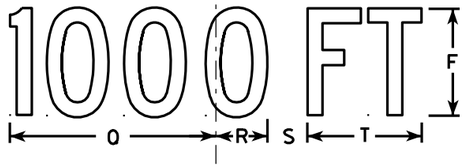
7



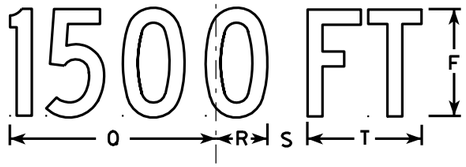
W20-3A



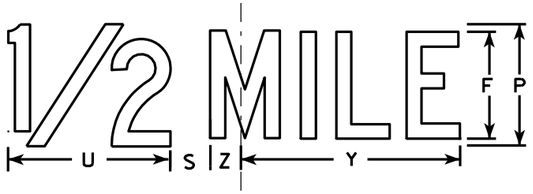
W20-3D



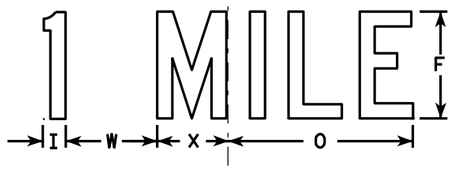
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

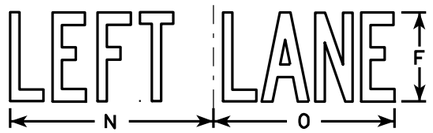
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 410 | E

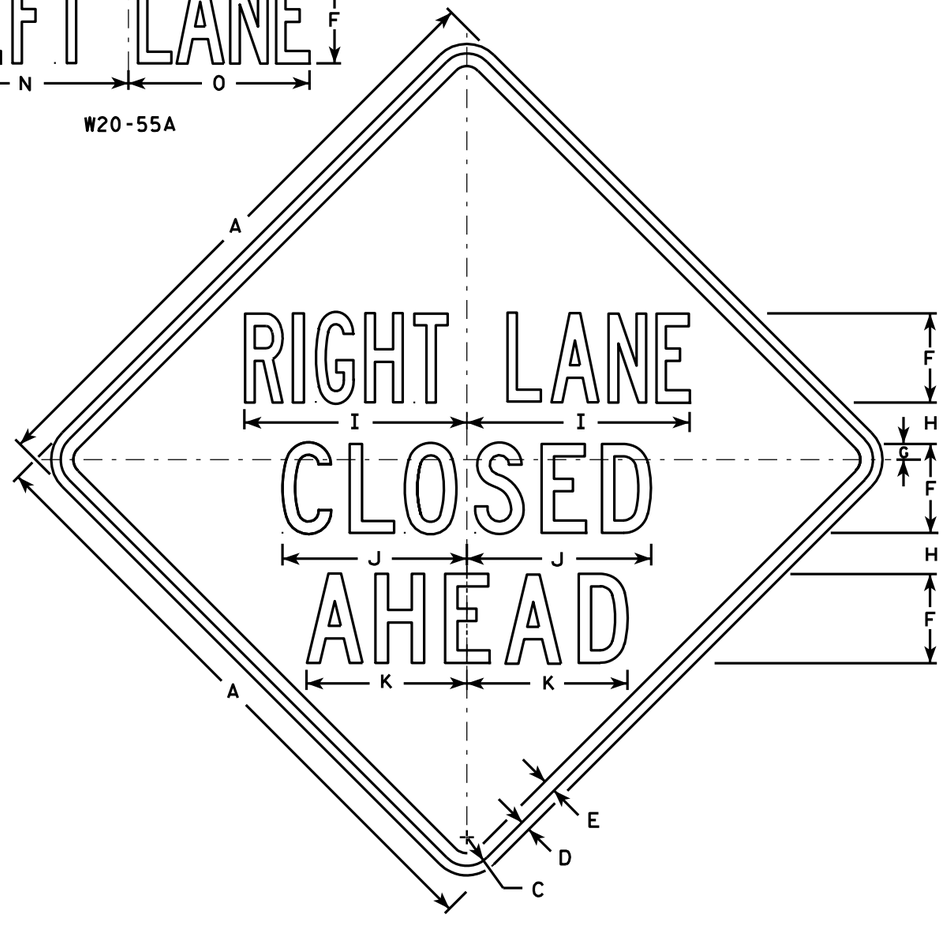
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

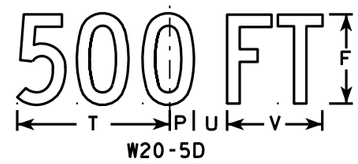
W20-56A



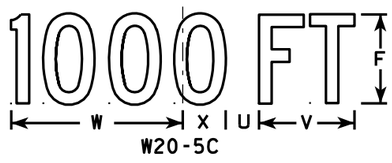
W20-55A



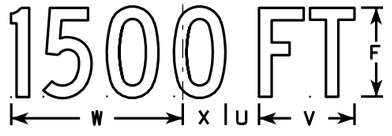
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

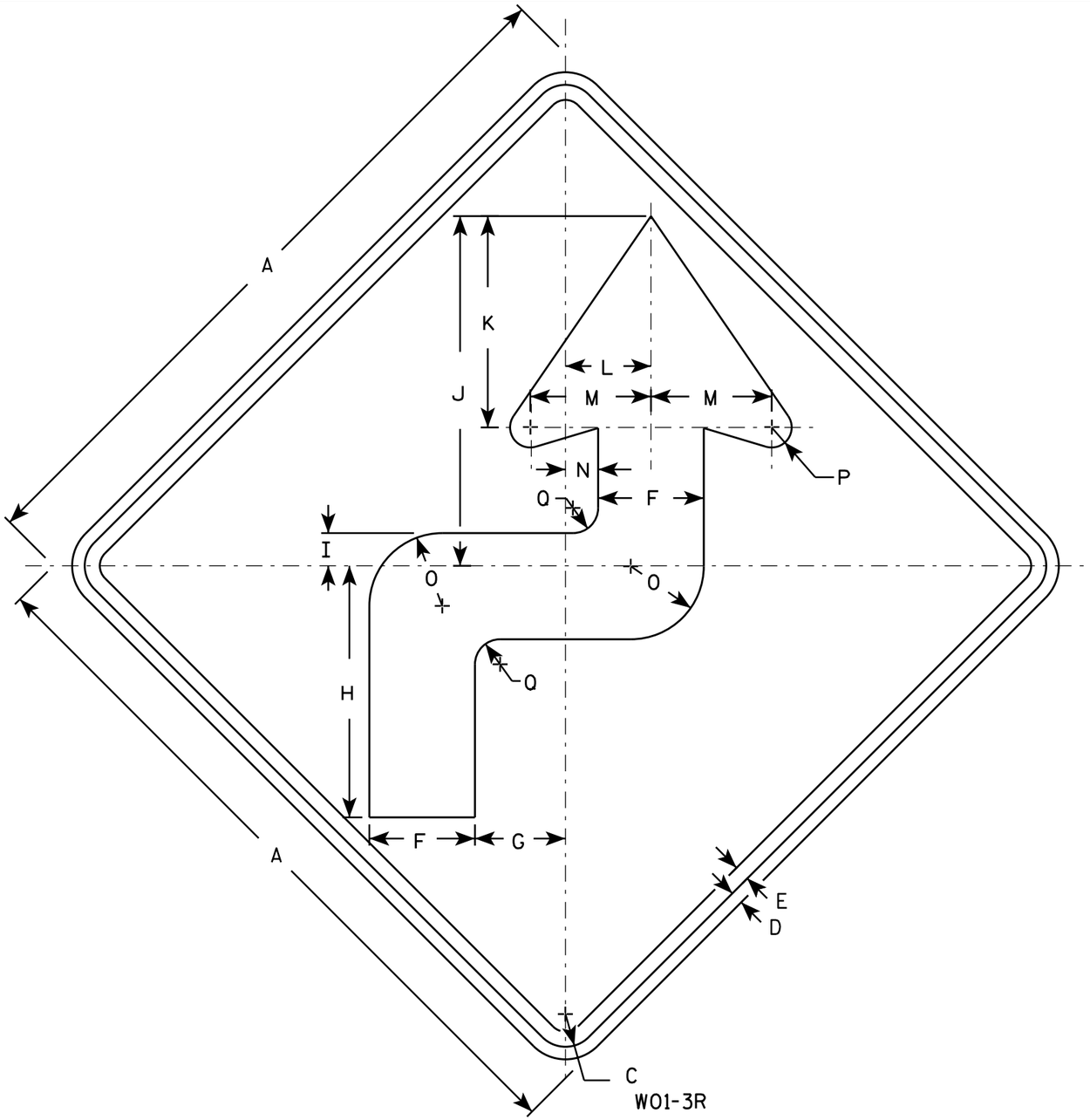
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 411	E



W01-3R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-3L is the same as W01-3R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2S	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
2M	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
3	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
4	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

STANDARD SIGN
W01-3

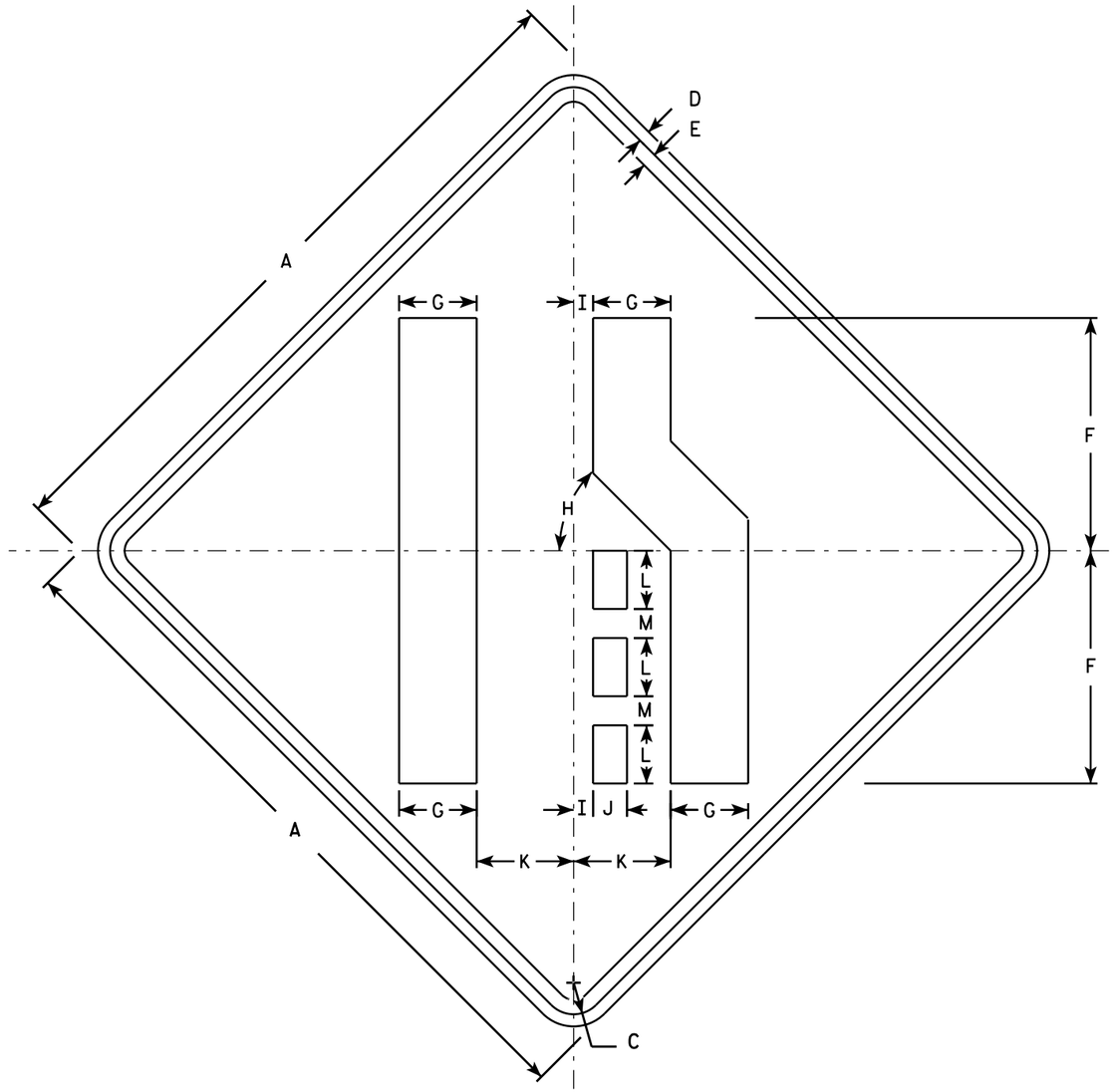
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W013.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.567217:1.000000



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

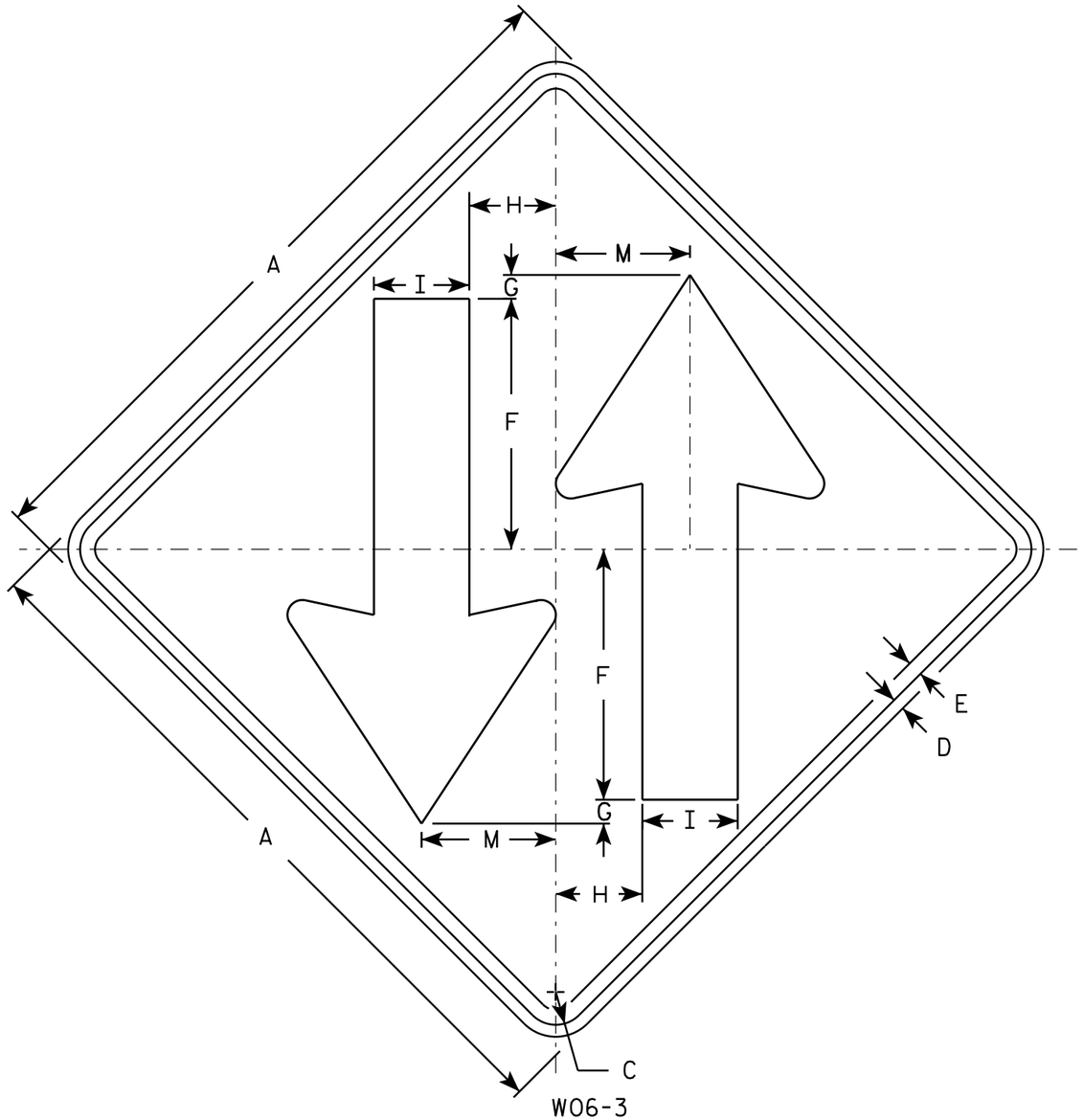
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 413 W04-2.1

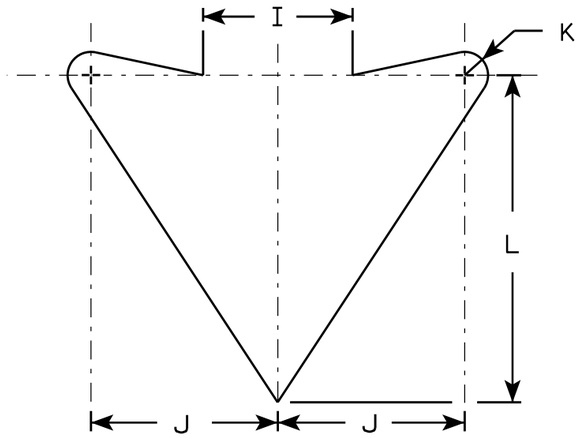
PROJECT NO: | SHEET NO: E



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 414 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

PROJECT ID 2984-00-74
DIVISION 1 - VLIET STREET (VL)

STATION	Distance	AREA (SF)		Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
		Cut	Fill	Cut	Fill	Fill 1.2 Exp	Cut	Fill	Fill 1.2 Exp	
46+00	0.00	66.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46+50	50.00	39.02	0.00	97.31	0.00	0.00	97.31	0.00	0.00	97.31
47+00	50.00	39.94	0.00	73.11	0.00	0.00	170.43	0.00	0.00	170.43
47+50	50.00	34.74	0.00	69.15	0.00	0.00	239.57	0.00	0.00	239.57
48+00	50.00	58.76	0.10	86.57	0.09	0.11	326.15	0.09	0.11	326.06
48+50	50.00	62.06	0.09	111.87	0.18	0.21	438.02	0.27	0.32	437.75
49+00	50.00	58.68	0.08	111.80	0.16	0.19	549.81	0.43	0.51	549.39
49+50	50.00	60.78	0.03	110.61	0.10	0.12	660.43	0.53	0.63	659.90
50+00	50.00	62.51	0.00	114.16	0.03	0.03	774.58	0.56	0.67	774.03
50+50	50.00	60.73	0.08	114.11	0.07	0.09	888.69	0.63	0.76	888.06
51+00	50.00	61.66	0.16	113.32	0.22	0.27	1002.02	0.85	1.02	1001.17
51+12	11.59	62.67	0.00	26.68	0.03	0.04	1028.70	0.89	1.06	1027.82
51+50	38.41	62.01	0.00	88.68	0.00	0.00	1117.39	0.89	1.06	1116.50
51+83	32.77	61.45	0.04	74.92	0.02	0.03	1192.31	0.91	1.09	1191.40
52+00	17.23	60.53	0.01	38.92	0.02	0.02	1231.23	0.93	1.11	1230.30
52+50	50.00	58.18	0.06	109.92	0.06	0.08	1341.15	0.99	1.19	1340.16
53+00	50.00	62.48	0.07	111.72	0.12	0.14	1452.87	1.11	1.33	1451.76
53+50	50.00	48.79	3.74	103.03	3.53	4.23	1555.90	4.64	5.57	1551.26
54+00	50.00	47.86	4.09	89.49	7.25	8.70	1645.39	11.89	14.27	1633.50
54+28	28.45	59.26	0.00	56.44	2.15	2.59	1701.82	14.04	16.85	1687.78
54+50	21.55	57.97	0.21	46.78	0.08	0.10	1748.61	14.13	16.95	1734.48
55+00	50.00	61.97	0.13	111.06	0.31	0.38	1859.66	14.44	17.33	1845.22
55+50	50.00	62.44	0.07	115.19	0.19	0.22	1974.86	14.63	17.55	1960.23
55+60	10.13	62.97	0.06	23.53	0.02	0.03	1998.38	14.65	17.58	1983.73
56+00	39.87	60.33	0.10	91.04	0.12	0.14	2089.42	14.77	17.72	2074.65
56+50	50.00	62.46	0.04	113.69	0.13	0.16	2203.11	14.90	17.88	2188.21
57+00	50.00	47.01	3.81	101.36	3.56	4.28	2304.48	18.46	22.16	2286.01
57+50	50.00	34.92	0.00	75.86	3.53	4.23	2380.34	21.99	26.39	2358.34
58+00	50.00	58.04	0.13	86.07	0.12	0.14	2466.41	22.11	26.54	2444.30
58+50	50.00	58.30	0.05	107.72	0.17	0.20	2574.13	22.28	26.74	2551.85
59+00	50.00	58.05	0.06	107.73	0.10	0.12	2681.86	22.38	26.86	2659.48
59+34	34.43	65.28	0.00	78.63	0.04	0.05	2760.50	22.42	26.90	2738.08
59+50	15.57	64.37	0.07	37.38	0.02	0.02	2797.88	22.44	26.93	2775.44
60+00	50.00	59.70	0.17	114.88	0.22	0.27	2912.76	22.66	27.19	2890.10

PROJECT ID 2984-00-74
DIVISION 1 - VLIET STREET (VL) - CONT.

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
60+50		50.00	62.14	0.10	112.81	0.25	0.30	3025.58	22.91	27.49	3002.66
61+00		50.00	35.38	0.00	90.30	0.09	0.11	3115.87	23.00	27.61	3092.87
61+50		50.00	34.22	0.00	64.44	0.00	0.00	3180.32	23.00	27.61	3157.31
62+00		50.00	62.03	0.00	89.12	0.00	0.00	3269.44	23.00	27.61	3246.43
62+50		50.00	62.50	0.00	115.31	0.00	0.00	3384.74	23.00	27.61	3361.74
63+00		50.00	58.53	0.00	112.06	0.00	0.00	3496.81	23.00	27.61	3473.80
63+50		50.00	54.41	0.00	104.57	0.00	0.00	3601.38	23.00	27.61	3578.38
64+00		50.00	56.75	0.00	102.93	0.00	0.00	3704.31	23.00	27.61	3681.30
64+50		50.00	57.49	0.00	105.78	0.00	0.00	3810.09	23.00	27.61	3787.08
64+75	**BK**	24.60	63.40	0.00	55.07	0.00	0.00	3865.16	23.00	27.61	3842.15
					3865.16	23.00	27.61				

PROJECT ID 2984-00-74
DIVISION 1 - 17TH STREET SB (NSI)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+25	**AH**	0.00	89.69	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+30		4.90	90.91	1.56	16.39	0.20	0.24	16.39	0.20	0.24	16.19
9+50		20.00	95.41	0.43	69.01	0.74	0.88	85.40	0.94	1.12	84.46
9+84	**BK**	33.90	96.92	0.00	120.74	0.27	0.32	206.14	1.21	1.45	204.93
					206.14	1.21	1.45				

PROJECT ID 2984-00-74
DIVISION 1 - 17TH STREET NB (NSJ)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+25	**AH**	0.00	110.76	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		24.90	121.83	0.07	107.25	0.77	0.92	107.25	0.77	0.92	106.48
9+70		20.00	136.09	0.13	95.53	0.07	0.09	202.78	0.84	1.01	201.93
9+84	**BK**	13.90	167.54	0.00	78.16	0.03	0.04	280.93	0.88	1.05	280.05
					280.93	0.88	1.05				

PROJECT ID 2984-00-74
DIVISION 1 - 14TH STREET (NSL)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+47	**AH**	0.00	85.42	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		2.90	84.57	1.95	9.13	0.18	0.21	9.13	0.18	0.21	8.95
9+84	**BK**	33.90	91.53	0.00	110.55	1.22	1.47	119.68	1.40	1.68	118.28
					119.68	1.40	1.68				

PROJECT ID 2984-00-74
DIVISION 1 - 13TH STREET (NSM)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+32	**AH**	0.00	110.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+40		7.90	111.07	0.00	32.47	0.00	0.00	32.47	0.00	0.00	32.47
9+50		10.00	85.27	0.16	36.36	0.03	0.04	68.83	0.03	0.04	68.80
9+84	**BK**	33.90	95.61	0.00	113.55	0.10	0.12	182.38	0.13	0.16	182.25
					182.38	0.13	0.16				

PROJECT ID 2984-00-74
DIVISION 1 - 12TH LANE (NSN)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+58	**AH**	0.00	62.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+70		11.90	42.51	0.00	23.16	0.00	0.00	23.16	0.00	0.00	23.16
9+78	**BK**	7.90	40.88	0.00	12.20	0.00	0.00	35.36	0.00	0.00	35.36
					35.36	0.00	0.00				

PROJECT ID 2984-00-74
DIVISION 2 - VLIET STREET (VL)

STATION	Distance	AREA (SF)		Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
		Cut	Fill	Cut	Fill	Fill 1.2 Exp	Cut	Fill	Fill 1.2 Exp	
46+00	0.00	48.68	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46+50	50.00	37.57	0.00	79.86	3.52	4.22	79.86	3.52	4.22	76.34
47+00	50.00	39.77	0.00	71.61	0.00	0.00	151.47	3.52	4.22	147.95
47+50	50.00	34.68	0.00	68.94	0.00	0.00	220.41	3.52	4.22	216.89
48+00	50.00	72.19	9.10	98.95	8.43	10.11	319.36	11.94	14.33	307.42
48+50	50.00	62.86	0.05	125.05	8.47	10.17	444.41	20.42	24.50	423.99
49+00	50.00	57.28	0.09	111.24	0.13	0.16	555.65	20.55	24.66	535.10
49+50	50.00	60.61	0.07	109.16	0.15	0.18	664.81	20.69	24.83	644.11
50+00	50.00	63.46	0.04	114.88	0.10	0.12	779.69	20.80	24.96	758.89
50+50	50.00	58.84	0.13	113.24	0.16	0.19	892.93	20.95	25.14	871.97
51+00	50.00	60.13	0.12	110.16	0.23	0.28	1003.08	21.19	25.42	981.90
51+12	11.59	60.44	0.10	25.88	0.05	0.06	1028.96	21.23	25.48	1007.73
51+50	38.41	59.17	0.10	85.08	0.14	0.17	1114.04	21.37	25.65	1092.66
51+83	32.77	66.55	0.00	76.29	0.06	0.07	1190.33	21.44	25.72	1168.90
52+00	17.23	61.99	0.10	41.01	0.03	0.04	1231.35	21.47	25.76	1209.88
52+50	50.00	55.82	0.19	109.08	0.27	0.32	1340.43	21.74	26.08	1318.69
53+00	50.00	60.20	0.11	107.43	0.28	0.33	1447.86	22.01	26.42	1425.84
53+50	50.00	34.42	0.00	87.61	0.10	0.12	1535.47	22.12	26.54	1513.35
54+00	50.00	36.58	0.00	65.74	0.00	0.00	1601.21	22.12	26.54	1579.09
54+28	28.45	62.22	0.08	52.05	0.04	0.05	1653.26	22.16	26.59	1631.10
54+50	21.55	56.95	0.16	47.56	0.10	0.11	1700.82	22.25	26.70	1678.56
55+00	50.00	63.36	0.01	111.40	0.16	0.19	1812.22	22.41	26.89	1789.81
55+50	50.00	66.00	0.00	119.78	0.01	0.01	1931.99	22.42	26.90	1909.57
55+60	10.13	65.74	0.00	24.71	0.00	0.00	1956.71	22.42	26.90	1934.29
56+00	39.87	62.70	0.07	94.83	0.05	0.06	2051.54	22.47	26.97	2029.07
56+50	50.00	62.55	0.04	115.97	0.10	0.12	2167.51	22.57	27.09	2144.94
57+00	50.00	61.38	0.32	114.75	0.33	0.40	2282.26	22.91	27.49	2259.35
57+50	50.00	36.09	0.00	90.25	0.30	0.36	2372.51	23.20	27.84	2349.31
58+00	50.00	60.88	0.00	89.79	0.00	0.00	2462.30	23.20	27.84	2439.10
58+50	50.00	60.17	0.01	112.08	0.01	0.01	2574.38	23.21	27.85	2551.17
59+00	50.00	55.99	0.14	107.56	0.14	0.17	2681.94	23.35	28.02	2658.59
59+34	34.43	61.27	0.00	74.76	0.09	0.11	2756.70	23.44	28.13	2733.26
59+50	15.57	59.54	0.07	34.83	0.02	0.02	2791.54	23.46	28.15	2768.07
60+00	50.00	59.72	0.06	110.43	0.12	0.14	2901.96	23.58	28.30	2878.38

PROJECT ID 2984-00-74
DIVISION 2 - VLIET STREET (VL) - CONT.

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
60+50		50.00	59.55	0.09	110.44	0.14	0.17	3012.40	23.72	28.46	2988.68
61+00		50.00	34.03	0.00	86.65	0.08	0.10	3099.04	23.80	28.56	3075.24
61+50		50.00	32.15	0.00	61.28	0.00	0.00	3160.32	23.80	28.56	3136.52
62+00		50.00	59.16	0.00	84.55	0.00	0.00	3244.87	23.80	28.56	3221.07
62+50		50.00	60.96	0.00	111.22	0.00	0.00	3356.09	23.80	28.56	3332.29
63+00		50.00	61.76	0.00	113.63	0.00	0.00	3469.72	23.80	28.56	3445.92
63+50		50.00	64.47	0.00	116.88	0.00	0.00	3586.60	23.80	28.56	3562.80
64+00		50.00	61.98	0.00	117.08	0.00	0.00	3703.68	23.80	28.56	3679.88
64+50		50.00	61.22	0.00	114.07	0.00	0.00	3817.76	23.80	28.56	3793.95
64+75	**BK**	24.60	65.23	0.00	57.61	0.00	0.00	3875.36	23.80	28.56	3851.56
					3875.36	23.80	28.56				

PROJECT ID 2984-00-74
DIVISION 2 - 17TH STREET SB (NSI)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	175.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		33.90	118.58	0.86	184.50	0.54	0.65	184.50	0.54	0.65	183.96
10+60		10.00	115.91	0.67	43.42	0.28	0.34	227.92	0.82	0.99	227.10
10+74	**BK**	13.90	114.00	1.03	59.18	0.44	0.53	287.10	1.26	1.51	285.84
					287.10	1.26	1.51				

PROJECT ID 2984-00-74
DIVISION 2 - 17TH STREET NB (NSJ)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	92.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		33.90	93.76	0.95	117.16	0.60	0.72	117.16	0.60	0.72	116.57
10+60		10.00	92.69	0.48	34.53	0.26	0.32	151.69	0.86	1.03	150.83
10+74	**BK**	13.90	88.83	0.51	46.72	0.25	0.31	198.41	1.12	1.34	197.30
					198.41	1.12	1.34				

PROJECT ID 2984-00-74
DIVISION 2 - 15TH STREET (NSK)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	94.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	85.71	2.38	79.64	1.05	1.26	79.64	1.05	1.26	78.59
10+47	**BK**	7.10	89.00	1.59	22.97	0.52	0.63	102.61	1.58	1.89	101.04
					102.61	1.58	1.89				

PROJECT ID 2984-00-74
DIVISION 2 - 14TH STREET (NSL)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	98.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	90.21	0.00	83.31	0.01	0.01	83.31	0.01	0.01	83.30
10+48	**BK**	7.90	94.73	0.00	27.06	0.00	0.00	110.37	0.01	0.01	110.36
					110.37	0.01	0.01				

PROJECT ID 2984-00-74
DIVISION 2 - 13TH STREET (NSM)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	88.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		33.90	100.91	0.00	118.90	0.00	0.00	118.90	0.00	0.00	118.90
10+60		10.00	105.78	0.00	38.28	0.00	0.00	157.18	0.00	0.00	157.18
10+65	**BK**	4.90	108.04	0.00	19.40	0.00	0.00	176.58	0.00	0.00	176.58
					176.58	0.00	0.00				

PROJECT ID 2984-00-74

DIVISION 3 - VLIET STREET (VL)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+69	**AH**	0.00	58.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11+00		30.80	56.32	0.00	65.75	0.00	0.00	65.75	0.00	0.00	65.75
11+50		50.00	58.09	0.00	105.94	0.00	0.00	171.68	0.00	0.00	171.68
12+00		50.00	59.41	0.00	108.80	0.00	0.00	280.48	0.00	0.00	280.48
12+21		20.96	59.08	0.00	45.99	0.00	0.00	326.47	0.00	0.00	326.47
12+50		29.04	58.57	0.00	63.27	0.00	0.00	389.74	0.00	0.00	389.74
13+00		50.00	58.60	0.00	108.49	0.00	0.00	498.23	0.00	0.00	498.23
13+50		50.00	59.36	0.00	109.22	0.00	0.00	607.45	0.00	0.00	607.45
14+00		50.00	36.87	0.00	89.10	0.00	0.00	696.55	0.00	0.00	696.55
14+50		50.00	36.12	0.00	67.58	0.00	0.00	764.14	0.00	0.00	764.14
15+00		50.00	62.22	0.00	91.06	0.00	0.00	855.19	0.00	0.00	855.19
15+27		27.13	58.18	0.00	60.49	0.00	0.00	915.68	0.00	0.00	915.68
15+50		22.87	58.14	0.00	49.26	0.00	0.00	964.95	0.00	0.00	964.95
15+74		23.85	58.12	0.00	51.35	0.00	0.00	1016.29	0.00	0.00	1016.29
16+00		26.15	59.71	0.00	57.06	0.00	0.00	1073.35	0.00	0.00	1073.35
16+50		50.00	54.81	0.00	106.04	0.00	0.00	1179.39	0.00	0.00	1179.39
17+00		50.00	47.83	0.00	95.04	0.00	0.00	1274.43	0.00	0.00	1274.43
17+50		50.00	60.79	0.00	100.57	0.00	0.00	1375.00	0.00	0.00	1375.00
18+00		50.00	54.83	0.00	107.06	0.00	0.00	1482.06	0.00	0.00	1482.06
18+50		50.00	57.86	0.00	104.34	0.00	0.00	1586.40	0.00	0.00	1586.40
19+00		50.00	60.01	0.00	109.14	0.00	0.00	1695.54	0.00	0.00	1695.54
19+50		50.00	56.59	0.00	107.96	0.00	0.00	1803.50	0.00	0.00	1803.50
20+00		50.00	37.45	0.00	87.07	0.00	0.00	1890.58	0.00	0.00	1890.58
20+50		50.00	59.86	0.00	90.10	0.00	0.00	1980.68	0.00	0.00	1980.68
21+00		50.00	56.00	0.00	107.28	0.00	0.00	2087.96	0.00	0.00	2087.96
21+50		50.00	56.98	0.00	104.61	0.00	0.00	2192.57	0.00	0.00	2192.57
22+00		50.00	50.65	0.00	99.66	0.00	0.00	2292.23	0.00	0.00	2292.23
22+19		19.08	51.99	0.00	36.27	0.00	0.00	2328.49	0.00	0.00	2328.49
22+41		21.55	52.56	0.00	41.72	0.00	0.00	2370.21	0.00	0.00	2370.21
22+50		9.37	53.82	0.00	18.46	0.00	0.00	2388.67	0.00	0.00	2388.67
23+00		50.00	61.08	0.00	106.39	0.00	0.00	2495.06	0.00	0.00	2495.06
23+50		50.00	40.43	0.00	93.99	0.00	0.00	2589.05	0.00	0.00	2589.05
24+00		50.00	49.40	3.18	83.18	2.94	3.53	2672.23	2.94	3.53	2669.28
24+50		50.00	49.80	3.04	91.85	5.76	6.91	2764.08	8.70	10.44	2755.38
25+00		50.00	50.97	2.82	93.31	5.43	6.51	2857.39	14.13	16.96	2843.26
25+50		50.00	50.06	3.10	93.55	5.48	6.58	2950.93	19.61	23.53	2931.32
26+00		50.00	49.12	3.11	91.83	5.75	6.90	3042.77	25.36	30.43	3017.41
26+50		50.00	47.21	4.30	89.19	6.86	8.23	3131.96	32.22	38.67	3099.74
27+00		50.00	49.18	1.94	89.25	5.78	6.93	3221.21	38.00	45.60	3183.21
27+50		50.00	51.87	2.22	93.56	3.85	4.62	3314.78	41.85	50.22	3272.92
28+00		50.00	57.16	1.93	100.95	3.84	4.61	3415.73	45.69	54.83	3370.03
28+50		50.00	56.23	1.66	104.99	3.32	3.99	3520.72	49.02	58.82	3471.70
29+00		50.00	57.55	1.46	105.35	2.89	3.47	3626.07	51.91	62.29	3574.16

PROJECT ID 2984-00-74

DIVISION 3 - VLIET STREET (VL) - CONT.

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
29+50		50.00	65.03	0.00	113.50	1.35	1.62	3739.57	53.26	63.91	3686.31
30+00		50.00	38.00	0.00	95.40	0.00	0.00	3834.97	53.26	63.91	3781.71
30+50		50.00	36.29	0.00	68.79	0.00	0.00	3903.76	53.26	63.91	3850.50
31+00		50.00	49.29	3.62	79.24	3.35	4.02	3983.00	56.61	67.93	3926.39
31+50		50.00	48.70	3.98	90.73	7.04	8.44	4073.73	63.65	76.38	4010.08
32+00		50.00	49.97	2.85	91.36	6.32	7.59	4165.09	69.97	83.97	4095.12
32+50		50.00	49.91	3.13	92.48	5.54	6.64	4257.57	75.51	90.61	4182.06
33+00		50.00	54.12	2.23	96.32	4.96	5.96	4353.90	80.47	96.57	4273.42
33+50		50.00	44.71	0.00	91.51	2.06	2.48	4445.41	82.54	99.04	4362.87
34+00		50.00	53.72	2.83	91.14	2.62	3.14	4536.54	85.16	102.19	4451.39
34+50		50.00	53.00	2.67	98.81	5.09	6.11	4635.36	90.25	108.30	4545.11
35+00		50.00	52.44	2.63	97.63	4.91	5.89	4732.99	95.16	114.19	4637.83
35+50		50.00	53.54	2.48	98.13	4.73	5.68	4831.12	99.89	119.87	4731.23
36+00		50.00	62.07	0.00	107.05	2.30	2.76	4938.16	102.19	122.62	4835.98
36+50		50.00	62.83	0.00	115.65	0.00	0.00	5053.81	102.19	122.62	4951.63
37+00		50.00	37.42	0.00	92.82	0.00	0.00	5146.64	102.19	122.62	5044.45
37+50		50.00	49.73	4.48	80.69	4.15	4.98	5227.33	106.33	127.60	5121.00
38+00		50.00	53.71	2.76	95.78	6.70	8.04	5323.11	113.04	135.64	5210.07
38+50		50.00	54.48	2.93	100.18	5.27	6.32	5423.28	118.31	141.97	5304.98
39+00		50.00	53.52	2.88	100.00	5.38	6.46	5523.28	123.69	148.42	5399.60
39+50		50.00	52.04	3.16	97.74	5.59	6.71	5621.03	129.28	155.13	5491.75
40+00		50.00	55.89	1.71	99.94	4.51	5.41	5720.96	133.79	160.54	5587.17
40+50		50.00	56.74	1.83	104.29	3.28	3.93	5825.25	137.06	164.48	5688.18
41+00		50.00	56.04	1.44	104.43	3.03	3.63	5929.67	140.09	168.11	5789.58
41+50		50.00	54.31	2.59	102.18	3.73	4.48	6031.85	143.82	172.59	5888.03
42+00		50.00	52.31	2.51	98.72	4.72	5.67	6130.57	148.55	178.26	5982.03
42+50		50.00	57.77	1.46	101.93	3.68	4.41	6232.50	152.22	182.67	6080.28
43+00		50.00	56.12	2.44	105.45	3.61	4.33	6337.95	155.83	187.00	6182.12
43+50		50.00	41.22	0.00	90.13	2.26	2.71	6428.08	158.09	189.71	6269.99
44+00		50.00	49.55	3.61	84.05	3.34	4.01	6512.13	161.44	193.72	6350.69
44+50		50.00	49.69	3.07	91.89	6.19	7.42	6604.02	167.62	201.14	6436.40
45+00		50.00	53.55	3.16	95.59	5.77	6.92	6699.61	173.39	208.07	6526.22
45+50		50.00	58.52	1.41	103.77	4.23	5.08	6803.38	177.62	213.14	6625.76
46+00	**BK**	50.00	66.08	0.00	115.37	1.31	1.57	6918.75	178.93	214.71	6739.82
					6918.75	178.93	214.71				

PROJECT ID 2984-00-74
DIVISION 3 - 26TH STREET (NSA)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+53	**AH**	0.00	92.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+60		6.90	91.43	0.98	23.50	0.20	0.24	23.50	0.20	0.24	23.30
9+84	**BK**	23.90	113.65	1.64	90.77	1.16	1.39	114.27	1.36	1.63	112.91
					114.27	1.36	1.63				

PROJECT ID 2984-00-74
DIVISION 3 - 25TH STREET (NSB)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+53	**AH**	0.00	104.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+60		6.90	98.90	0.00	25.94	0.00	0.00	25.94	0.00	0.00	25.94
9+78	**BK**	17.90	126.76	0.09	74.80	0.03	0.04	100.74	0.03	0.04	100.72
					100.74	0.03	0.04				

PROJECT ID 2984-00-74
DIVISION 3 - 24TH PLACE (NSC)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+50	**AH**	0.00	81.08	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+60		9.90	77.84	1.62	29.14	0.56	0.67	29.14	0.56	0.67	28.58
9+84	**BK**	23.90	90.40	0.00	74.46	0.72	0.86	103.60	1.27	1.53	102.32
					103.60	1.27	1.53				

PROJECT ID 2984-00-74
DIVISION 3 - 24TH STREET (NSD)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+41	**AH**	0.00	97.55	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		8.90	97.26	0.00	32.11	0.01	0.01	32.11	0.01	0.01	32.10
9+84	**BK**	33.90	99.01	0.00	123.21	0.00	0.00	155.32	0.01	0.01	155.31
					155.32	0.01	0.01				

PROJECT ID 2984-00-74
DIVISION 3 - 22ND STREET (NSE)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+49	**AH**	0.00	84.84	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		0.90	84.51	0.74	2.82	0.02	0.03	2.82	0.02	0.03	2.80
9+55		5.00	82.82	1.09	15.49	0.17	0.20	18.32	0.19	0.23	18.12
9+84	**BK**	28.90	106.43	0.00	101.28	0.58	0.70	119.60	0.78	0.93	118.82
					119.60	0.78	0.93				

PROJECT ID 2984-00-74
DIVISION 3 - 21ST STREET (NSF)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+49	**AH**	0.00	86.80	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		0.90	86.94	0.18	2.90	0.01	0.01	2.90	0.01	0.01	2.89
9+55		5.00	87.74	0.22	16.17	0.04	0.04	19.07	0.04	0.05	19.03
9+84	**BK**	28.90	156.68	0.00	130.81	0.12	0.14	149.88	0.16	0.19	149.72
					149.88	0.16	0.19				

PROJECT ID 2984-00-74
DIVISION 3 - 20TH STREET (NSG)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+40	**AH**	0.00	97.14	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		9.90	98.19	0.44	35.81	0.14	0.16	35.81	0.14	0.16	35.67
9+84	**BK**	33.90	119.13	0.00	136.43	0.28	0.33	172.24	0.41	0.49	171.83
					172.24	0.41	0.49				

PROJECT ID 2984-00-74
DIVISION 3 - 18TH STREET (NSH)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
9+49	**AH**	0.00	90.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9+50		0.90	90.68	0.00	3.02	0.00	0.00	3.02	0.00	0.00	3.02
9+60		10.00	92.98	0.04	34.01	0.01	0.01	37.03	0.01	0.01	37.02
9+84	**BK**	23.90	159.13	0.00	111.58	0.01	0.01	148.61	0.02	0.02	148.60
					148.61	0.02	0.02				

PROJECT ID 2984-00-74

DIVISION 4 - VLIET STREET (VL)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+69	**AH**	0.00	64.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11+00		30.80	59.64	0.00	71.02	0.00	0.00	71.02	0.00	0.00	71.02
11+50		50.00	60.11	0.00	110.88	0.00	0.00	181.90	0.00	0.00	181.90
12+00		50.00	60.02	0.00	111.23	0.00	0.00	293.13	0.00	0.00	293.13
12+21		20.96	60.34	0.00	46.72	0.00	0.00	339.85	0.00	0.00	339.85
12+50		29.04	63.76	0.00	66.74	0.00	0.00	406.58	0.00	0.00	406.58
13+00		50.00	60.65	0.00	115.19	0.00	0.00	521.78	0.00	0.00	521.78
13+50		50.00	60.66	0.00	112.32	0.00	0.00	634.10	0.00	0.00	634.10
14+00		50.00	37.94	0.00	91.30	0.00	0.00	725.40	0.00	0.00	725.40
14+50		50.00	35.62	0.00	68.11	0.00	0.00	793.51	0.00	0.00	793.51
15+00		50.00	56.25	0.00	85.06	0.00	0.00	878.57	0.00	0.00	878.57
15+27		27.13	57.98	0.00	57.39	0.00	0.00	935.96	0.00	0.00	935.96
15+50		22.87	58.25	0.00	49.23	0.00	0.00	985.19	0.00	0.00	985.19
15+74		23.85	56.62	0.00	50.73	0.00	0.00	1035.92	0.00	0.00	1035.92
16+00		26.15	59.71	0.00	56.33	0.00	0.00	1092.26	0.00	0.00	1092.26
16+50		50.00	51.81	0.00	103.26	0.00	0.00	1195.52	0.00	0.00	1195.52
17+00		50.00	46.22	0.00	90.77	0.00	0.00	1286.29	0.00	0.00	1286.29
17+50		50.00	60.89	0.00	99.18	0.00	0.00	1385.46	0.00	0.00	1385.46
18+00		50.00	56.36	0.00	108.56	0.00	0.00	1494.03	0.00	0.00	1494.03
18+50		50.00	60.15	0.00	107.88	0.00	0.00	1601.91	0.00	0.00	1601.91
19+00		50.00	59.94	0.00	111.19	0.00	0.00	1713.10	0.00	0.00	1713.10
19+50		50.00	62.71	0.00	113.56	0.00	0.00	1826.67	0.00	0.00	1826.67
20+00		50.00	36.94	0.00	92.27	0.00	0.00	1918.93	0.00	0.00	1918.93
20+50		50.00	58.21	0.00	88.10	0.00	0.00	2007.04	0.00	0.00	2007.04
21+00		50.00	58.17	0.00	107.76	0.00	0.00	2114.80	0.00	0.00	2114.80
21+50		50.00	58.09	0.00	107.65	0.00	0.00	2222.44	0.00	0.00	2222.44
22+00		50.00	56.75	0.00	106.33	0.00	0.00	2328.78	0.00	0.00	2328.78
22+19		19.08	56.06	0.00	39.86	0.00	0.00	2368.64	0.00	0.00	2368.64
22+41		21.55	55.23	0.00	44.41	0.00	0.00	2413.05	0.00	0.00	2413.05
22+50		9.37	57.57	0.00	19.57	0.00	0.00	2432.62	0.00	0.00	2432.62
23+00		50.00	63.02	0.00	111.66	0.00	0.00	2544.28	0.00	0.00	2544.28
23+50		50.00	54.67	0.00	108.97	0.00	0.00	2653.25	0.00	0.00	2653.25
24+00		50.00	62.85	0.00	108.81	0.00	0.00	2762.07	0.00	0.00	2762.07
24+50		50.00	53.41	2.30	107.65	2.13	2.56	2869.71	2.13	2.56	2867.58
25+00		50.00	49.04	3.39	94.86	5.27	6.32	2964.58	7.40	8.88	2957.18
25+50		50.00	48.85	3.61	90.64	6.48	7.78	3055.21	13.88	16.66	3041.33
26+00		50.00	50.52	2.44	92.01	5.60	6.72	3147.22	19.48	23.38	3127.74
26+50		50.00	52.76	1.77	95.63	3.90	4.68	3242.85	23.38	28.06	3219.47
27+00		50.00	49.51	2.22	94.69	3.69	4.43	3337.55	27.07	32.49	3310.47
27+50		50.00	53.16	2.48	95.06	4.35	5.22	3432.61	31.43	37.71	3401.19
28+00		50.00	58.31	1.78	103.21	3.94	4.73	3535.83	35.37	42.44	3500.46
28+50		50.00	57.23	1.79	106.98	3.31	3.97	3642.81	38.68	46.41	3604.13
29+00		50.00	52.90	3.14	101.97	4.56	5.48	3744.78	43.24	51.89	3701.54

PROJECT ID 2984-00-74

DIVISION 4 - VLIET STREET (VL) - CONT.

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
29+50		50.00	51.91	2.74	97.05	5.44	6.53	3841.83	48.69	58.42	3793.14
30+00		50.00	38.38	0.00	83.60	2.54	3.04	3925.43	51.22	61.47	3874.21
30+50		50.00	62.12	0.00	93.06	0.00	0.00	4018.48	51.22	61.47	3967.26
31+00		50.00	62.19	0.00	115.10	0.00	0.00	4133.58	51.22	61.47	4082.36
31+50		50.00	48.04	3.86	102.06	3.57	4.29	4235.65	54.80	65.76	4180.85
32+00		50.00	49.62	3.13	90.43	6.47	7.77	4326.08	61.27	73.52	4264.81
32+50		50.00	49.76	2.99	92.02	5.67	6.80	4418.09	66.94	80.32	4351.16
33+00		50.00	55.45	1.92	97.42	4.55	5.46	4515.51	71.48	85.78	4444.03
33+50		50.00	44.87	0.00	92.89	1.78	2.13	4608.40	73.26	87.91	4535.14
34+00		50.00	54.94	1.97	92.42	1.82	2.19	4700.82	75.08	90.10	4625.73
34+50		50.00	53.51	2.20	100.42	3.86	4.63	4801.23	78.94	94.73	4722.29
35+00		50.00	52.71	2.24	98.35	4.11	4.93	4899.58	83.06	99.67	4816.53
35+50		50.00	51.63	2.00	96.61	3.93	4.71	4996.20	86.98	104.38	4909.21
36+00		50.00	49.22	2.68	93.38	4.33	5.20	5089.58	91.31	109.58	4998.26
36+50		50.00	35.41	0.00	78.36	2.48	2.98	5167.94	93.80	112.56	5074.14
37+00		50.00	38.65	0.00	68.57	0.00	0.00	5236.51	93.80	112.56	5142.71
37+50		50.00	64.34	0.00	95.36	0.00	0.00	5331.87	93.80	112.56	5238.08
38+00		50.00	57.25	2.04	112.58	1.89	2.27	5444.46	95.69	114.82	5348.77
38+50		50.00	54.77	1.86	103.72	3.61	4.33	5548.18	99.30	119.16	5448.88
39+00		50.00	54.55	1.58	101.22	3.19	3.82	5649.40	102.48	122.98	5546.92
39+50		50.00	52.24	2.10	98.88	3.41	4.09	5748.28	105.89	127.07	5642.39
40+00		50.00	56.45	1.30	100.64	3.15	3.78	5848.92	109.04	130.84	5739.88
40+50		50.00	55.46	3.23	103.62	4.19	5.03	5952.54	113.23	135.88	5839.31
41+00		50.00	56.04	1.97	103.24	4.81	5.78	6055.78	118.05	141.66	5937.73
41+50		50.00	54.96	1.55	102.78	3.26	3.91	6158.56	121.31	145.57	6037.25
42+00		50.00	51.67	2.11	98.73	3.39	4.07	6257.29	124.69	149.63	6132.59
42+50		50.00	54.99	2.10	98.76	3.90	4.68	6356.05	128.59	154.31	6227.46
43+00		50.00	56.35	1.49	103.09	3.32	3.99	6459.14	131.92	158.30	6327.22
43+50		50.00	41.84	0.00	90.92	1.38	1.66	6550.06	133.30	159.96	6416.76
44+00		50.00	62.38	0.00	96.50	0.00	0.00	6646.56	133.30	159.96	6513.26
44+50		50.00	57.46	1.22	110.96	1.13	1.36	6757.52	134.43	161.31	6623.09
45+00		50.00	54.78	2.30	103.93	3.26	3.91	6861.45	137.69	165.22	6723.76
45+50		50.00	51.93	3.03	98.81	4.94	5.92	6960.25	142.62	171.14	6817.63
46+00	**BK**	50.00	48.68	3.80	93.16	6.32	7.59	7053.41	148.94	178.73	6904.46
					7053.41	148.94	178.73				

PROJECT ID 2984-00-74
DIVISION 3 - 26TH STREET (NSA)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	107.97	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		33.90	99.11	0.53	130.00	0.85	1.02	130.00	0.85	1.02	129.15
10+53	**BK**	2.90	99.14	0.46	10.65	0.05	0.06	140.65	0.90	1.08	139.75
					140.65	0.90	1.08				

PROJECT ID 2984-00-74
DIVISION 4 - 25TH STREET (NSB)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+22	**AH**	0.00	114.73	9.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		17.90	96.26	0.00	69.94	3.08	3.69	69.94	3.08	3.69	66.86
10+48	**BK**	7.90	97.10	0.00	28.29	0.00	0.00	98.23	3.08	3.69	95.15
					98.23	3.08	3.69				

PROJECT ID 2984-00-74
DIVISION 4 - 24TH PLACE (NSC)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	121.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	74.74	0.00	86.74	0.00	0.00	86.74	0.00	0.00	86.74
10+44	**BK**	3.90	74.61	0.00	10.79	0.00	0.00	97.53	0.00	0.00	97.53
					97.53	0.00	0.00				

PROJECT ID 2984-00-74
DIVISION 3 - 24TH STREET (NSD)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+22	**AH**	0.00	127.56	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		27.90	97.31	0.47	116.18	0.26	0.31	116.18	0.26	0.31	115.92
10+59	**BK**	8.90	97.01	0.16	32.03	0.10	0.12	148.21	0.36	0.43	147.85
					148.21	0.36	0.43				

PROJECT ID 2984-00-74
DIVISION 4 - 22ND STREET (NSE)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	101.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	88.96	1.18	84.30	0.52	0.63	84.30	0.52	0.63	83.77
10+49	**BK**	8.90	87.15	0.84	29.03	0.33	0.40	113.32	0.86	1.03	112.47
					113.32	0.86	1.03				

PROJECT ID 2984-00-74
DIVISION 4 - 21ST STREET (NSF)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	187.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	90.29	0.33	123.07	0.15	0.18	123.07	0.15	0.18	122.92
10+49	**BK**	8.90	84.93	0.45	28.88	0.13	0.15	151.95	0.27	0.33	151.67
					151.95	0.27	0.33				

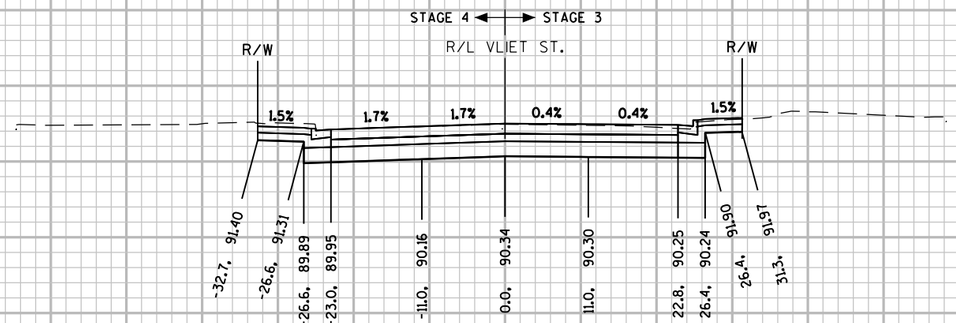
PROJECT ID 2984-00-74
DIVISION 3 - 20TH STREET (NSG)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	136.16	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		33.90	99.34	0.41	147.84	0.26	0.32	147.84	0.26	0.32	147.58
10+64	**BK**	13.90	98.34	0.23	50.88	0.16	0.20	198.73	0.43	0.51	198.30
					198.73	0.43	0.51				

PROJECT ID 2984-00-74
DIVISION 4 - 18TH STREET (NSH)

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Incremental Vol (CY) Fill 1.2 Exp	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.2 Exp	Mass Ordinate
10+16	**AH**	0.00	107.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+40		23.90	87.39	0.24	86.25	0.11	0.13	86.25	0.11	0.13	86.14
10+50		10.00	89.78	0.47	32.81	0.13	0.16	119.06	0.24	0.29	118.82
10+52	**BK**	1.90	89.76	0.36	6.32	0.03	0.04	125.37	0.27	0.32	125.11
					125.37	0.27	0.32				

11VL+00



10VL+69
STA AHEAD

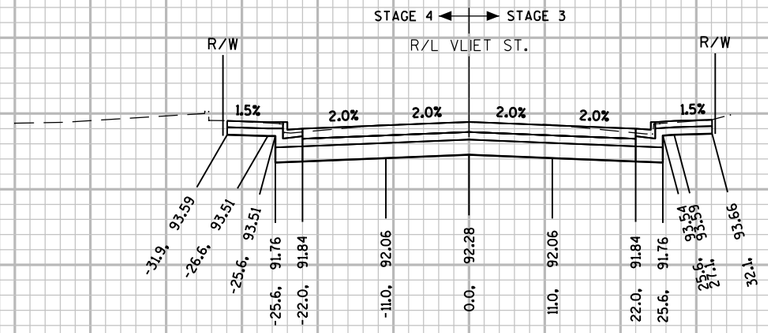
5 FT
10 FT

STA 10VL+69 TO 11VL+00

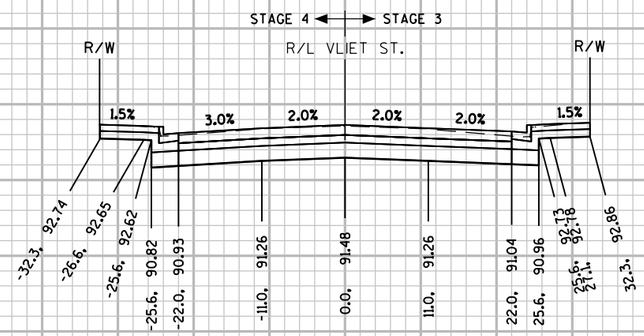
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 435	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Set Production\11x42\399000_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



12VL+00



11VL+50

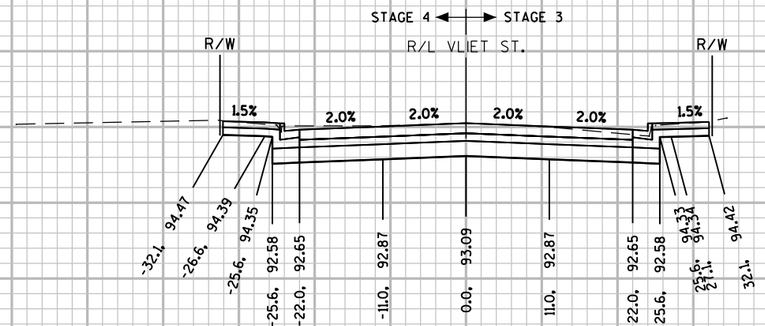
5 FT
10 FT

STA 11VL+50 TO 12VL+00

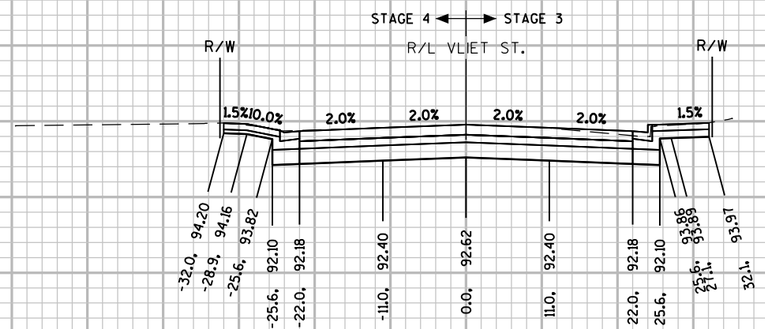
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\11x42s399400_xs2VLTdgn : ecastellan PLOT NAME : PLOT SCALE : 20:1

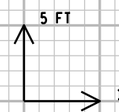
WISDOT/CADDS SHEET 21



12VL+50



12VL+21
DWY LT



STA 12VL+21 TO 12VL+50

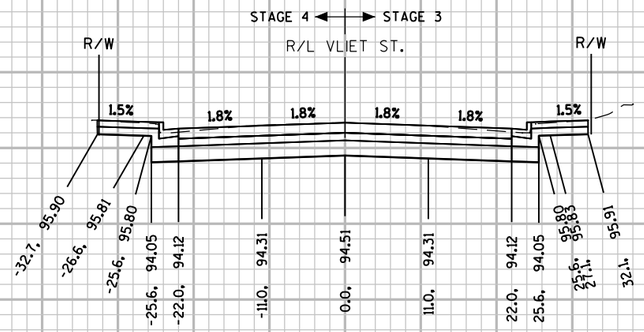
9

9

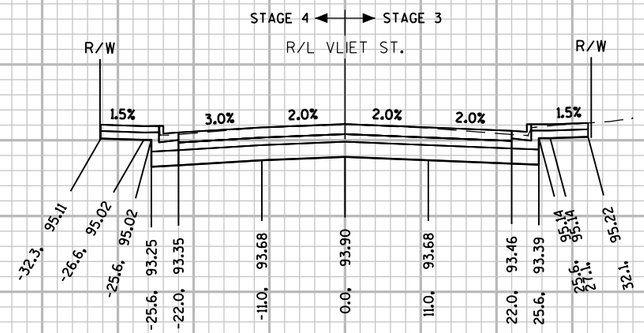
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 437	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Folder\Roadway\10_xs\399400_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



13VL+50



13VL+00

5 FT
10 FT

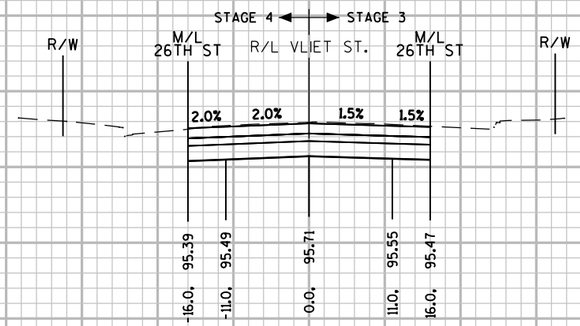
STA 13VL+00 TO 13VL+50

9 9

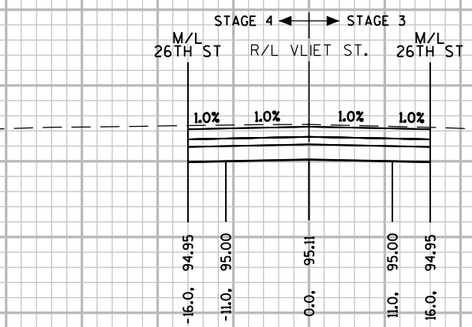
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 438	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\10_Oct_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

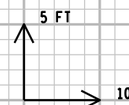
WISDOT/CADDS SHEET 21



14VL+50



14VL+00



STA 14VL+00 TO 14VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 439	E

9

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\10_0ct_0900_xs2VL.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

15VL+27
DWY RT

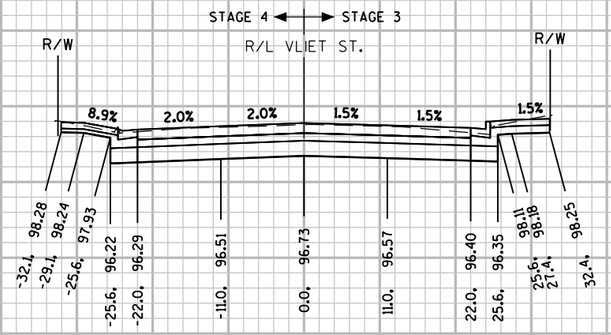
15VL+00

5 FT
10 FT

STA 15VL+00 TO 15VL+27

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 440	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_06\xs10400_xs2VLTdgn
PLOT BY : ecastellan
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



15VL+74
DWY LT

15VL+50

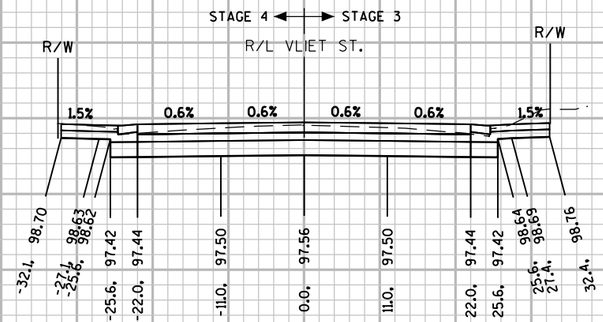
5 FT
10 FT

STA 15VL+50 TO 15VL+74

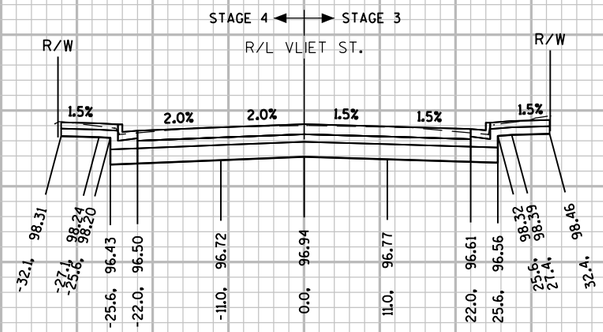
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 441	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Set Production\10_xsec\09_xs2VLT.dgn PLOT NAME : PLOT SCALE : 20:1 PLOTTED BY : ecastellan

WISDOT/CADDS SHEET 21



16VL+50



16VL+00

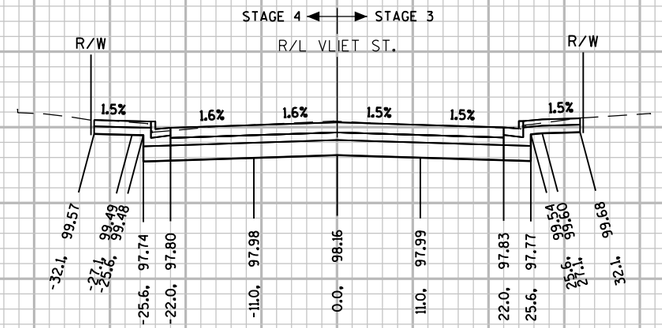
5 FT
10 FT

STA 16VL+00 TO 16VL+50

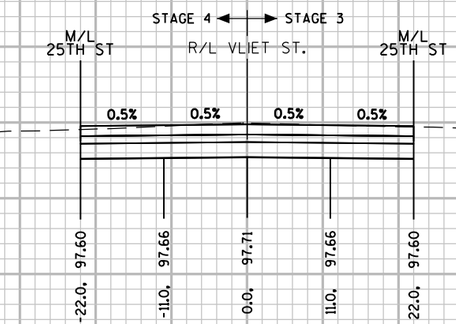
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 442	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Set Production\10_xsDsn\0900_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



17VL+50



17VL+00

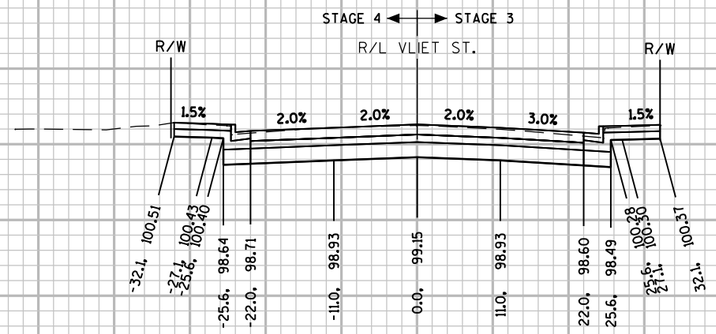
5 FT
10 FT

STA 17VL+00 TO 17VL+50

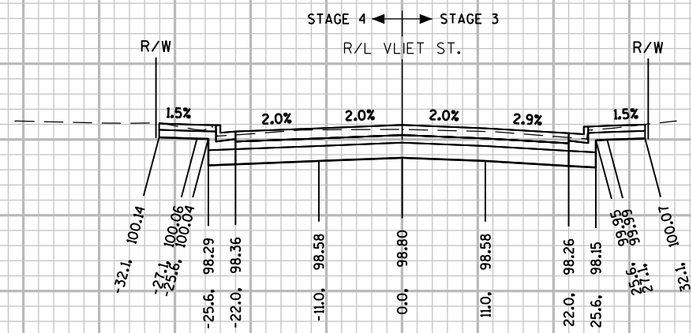
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 443	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Prod 2022\10_xsA0900_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



18VL+50



18VL+00

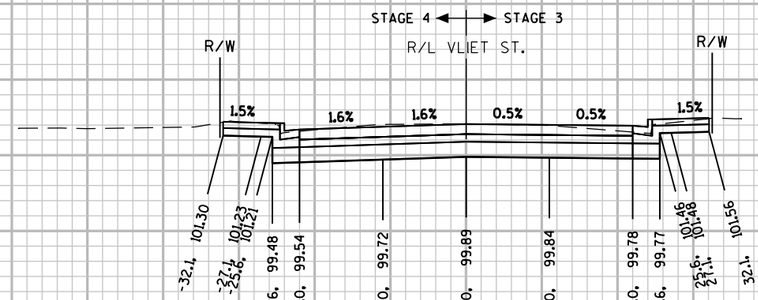
5 FT
10 FT

STA 18VL+00 TO 18VL+50

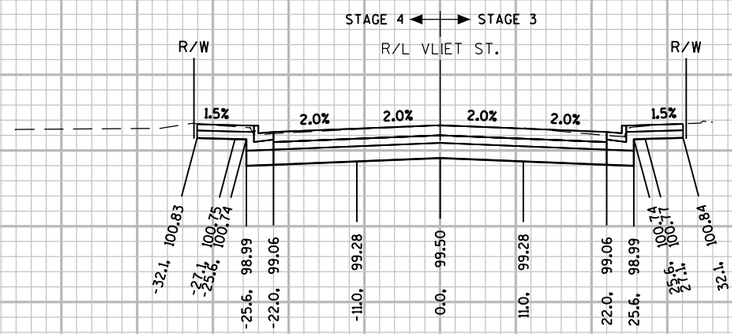
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 444	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Production\10_Sheets\090000_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



19VL+50



19VL+00

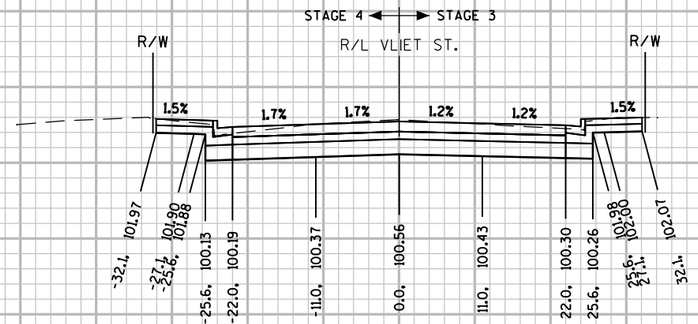
5 FT
10 FT

STA 19VL+00 TO 19VL+50

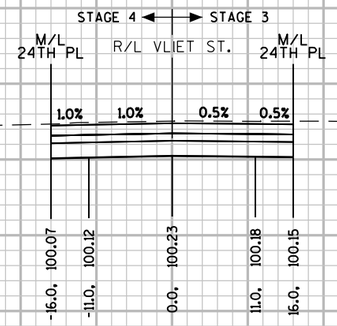
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 445	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\D290000_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



20VL+50



20VL+00

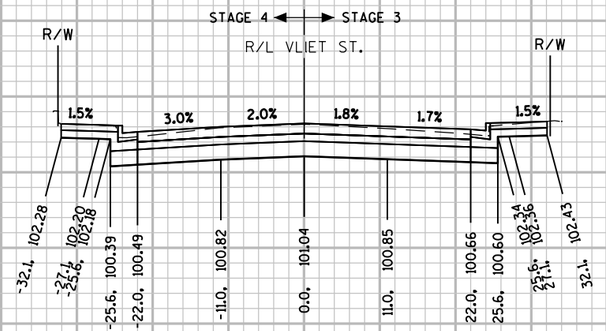
5 FT
10 FT

STA 20VL+00 TO 20VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 446	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\20221007_xs20VL00_xs20VL50.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



21VL+50

21VL+00

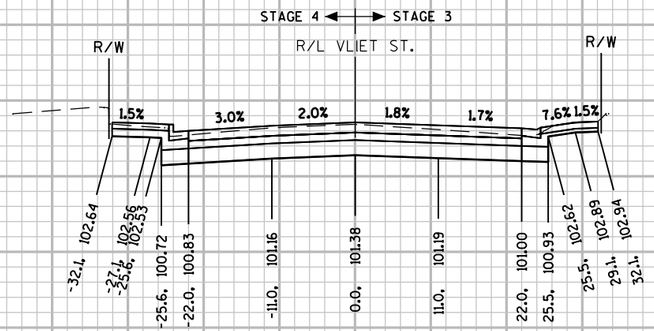
5 FT
10 FT

STA 21VL+00 TO 21VL+50

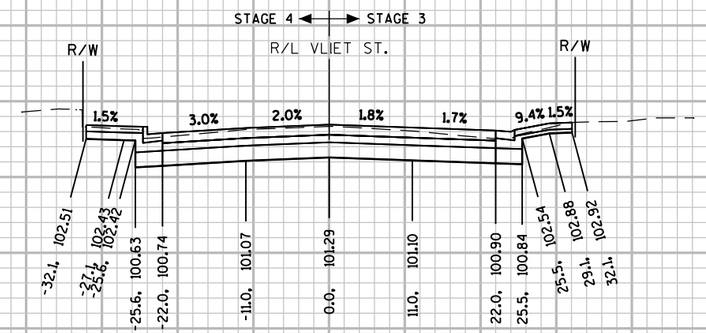
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 447	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\42940000_xs21VL50.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

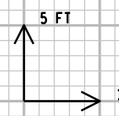
WISDOT/CADDS SHEET 21



22VL+19
DWY RT



22VL+00
DWY RT

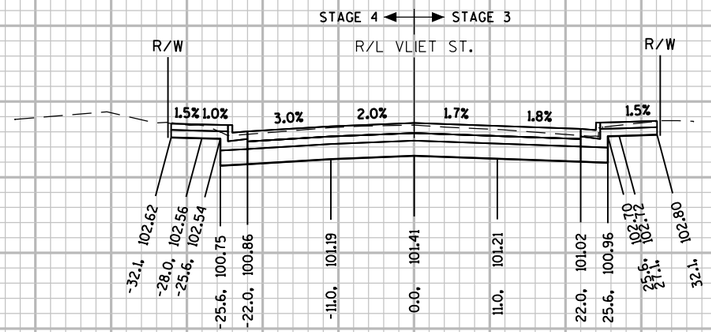


STA 22VL+00 TO 22VL+19

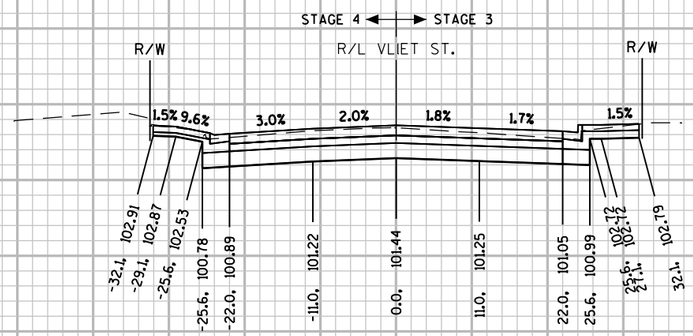
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 448	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\42990000_xs2VL19.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



22VL+50



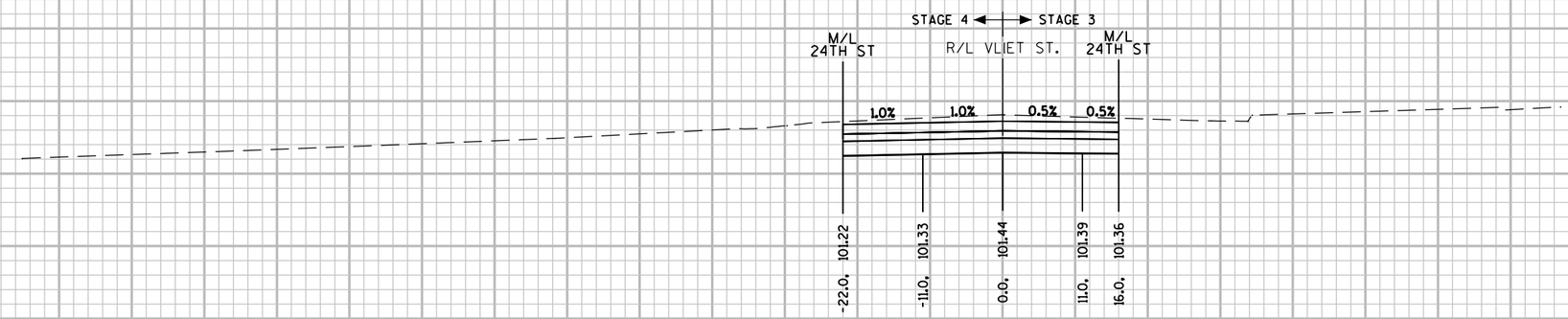
22VL+41
DWY LT

5 FT
10 FT

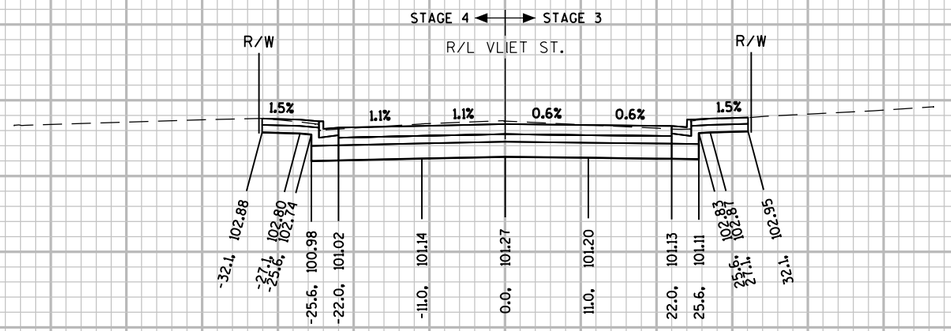
STA 22VL+41 TO 22VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 449	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Data Prod 2022\10_xsDsn\D90200_xs2VLTdy.dgn
PLOT BY : ecastellan
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



23VL+50



23VL+00

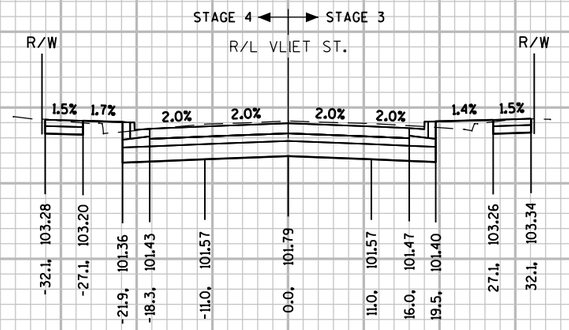
5 FT
10 FT

STA 23VL+00 TO 23VL+50

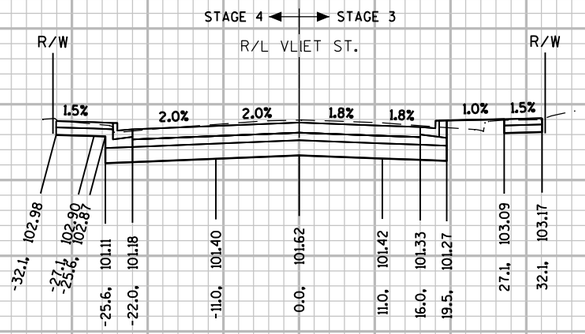
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 450	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\101x40sA1940200_xs23VL0+50 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



24VL+50



24VL+00

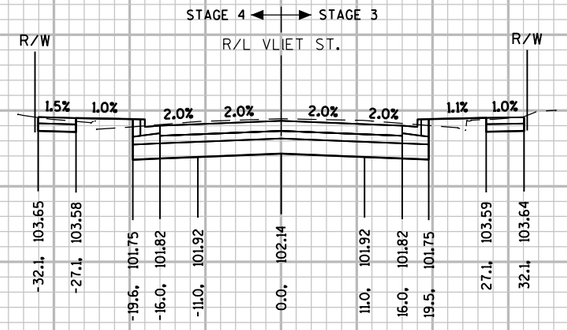
5 FT
10 FT

STA 24VL+00 TO 24VL+50

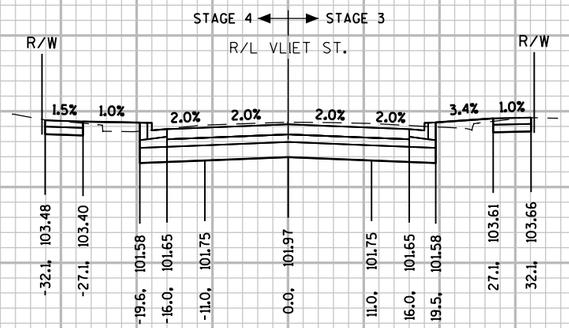
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 451	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10_60sA1000_xs24VL+00.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



25VL+50



25VL+00

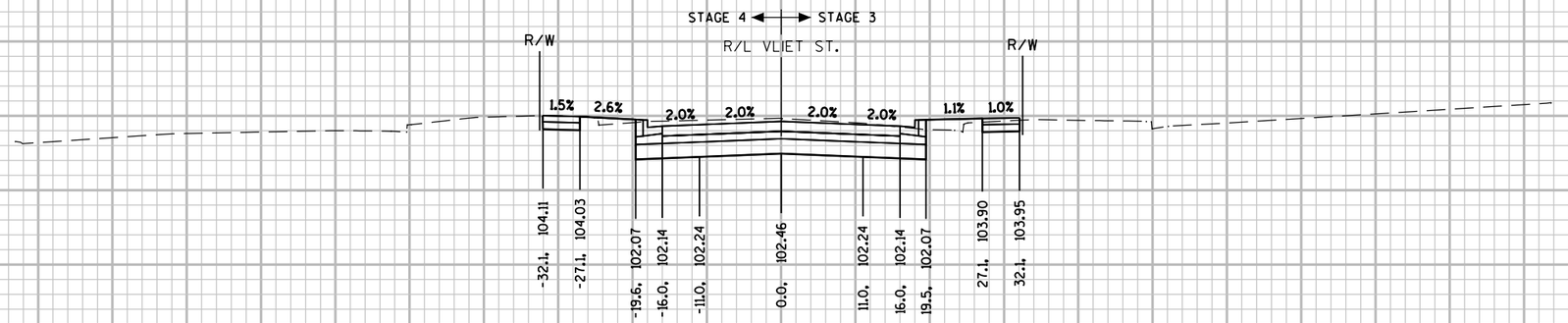
5 FT
10 FT

STA 25VL+00 TO 25VL+50

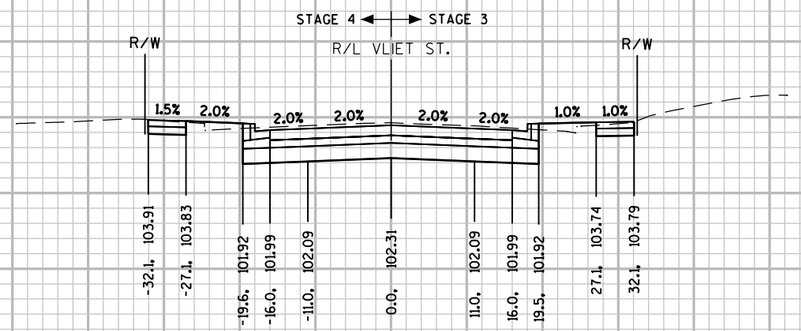
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 452	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\409200_xs25VL.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



26VL+50



26VL+00

5 FT
10 FT

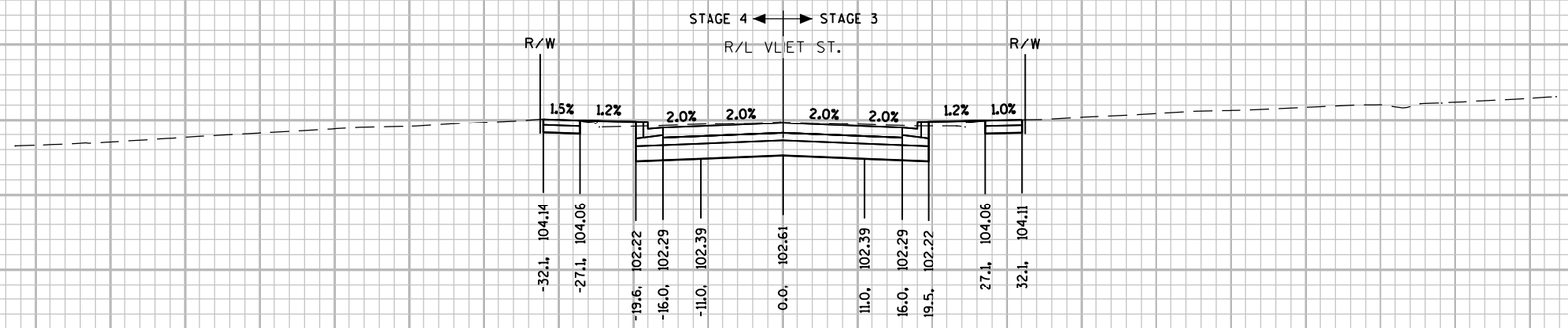
STA 26VL+00 TO 26VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 453	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway Design Products\10_xs\409200_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

27VL+50



27VL+00

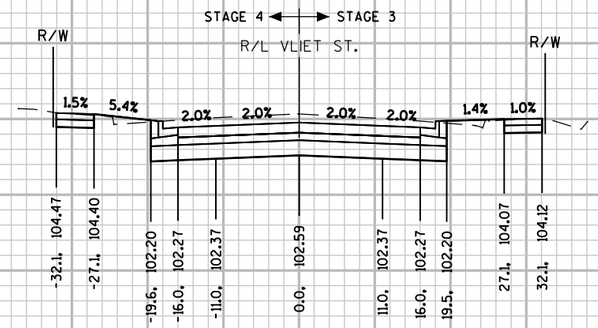
5 FT
10 FT

STA 27VL+00 TO 27VL+50

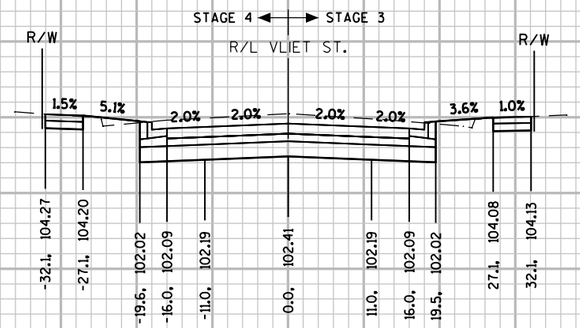
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 454	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\10_Cross Sections\27VL00_xs27VL50 | PLOTTED BY : ecastellan | PLOT NAME : | PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



28VL+50



28VL+00

5 FT
10 FT

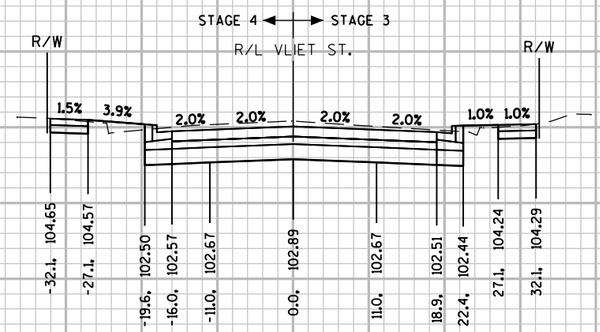
STA 28VL+00 TO 28VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 455	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\409000_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

29VL+50



29VL+00

5 FT
10 FT

STA 29VL+00 TO 29VL+50

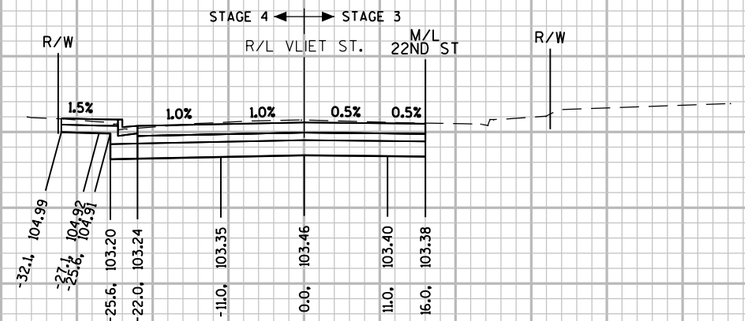
9

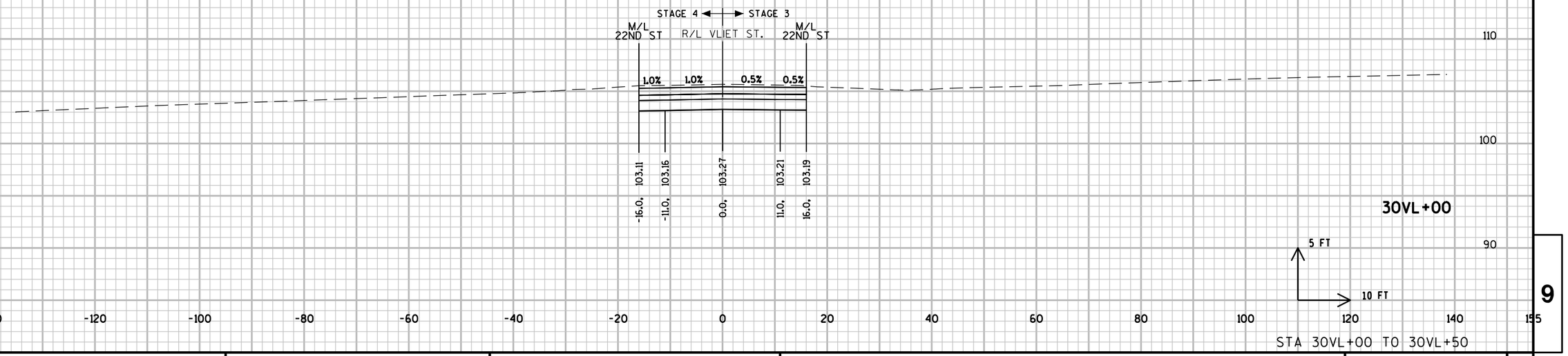
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 456	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\10_xs\59000_xs2VL.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

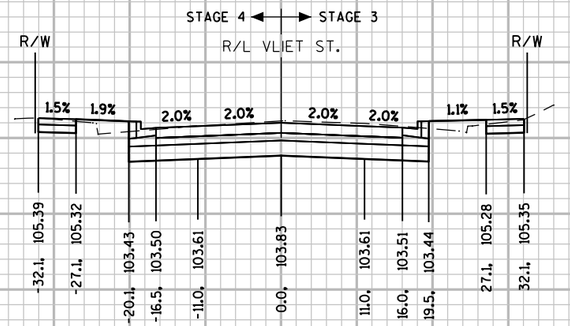




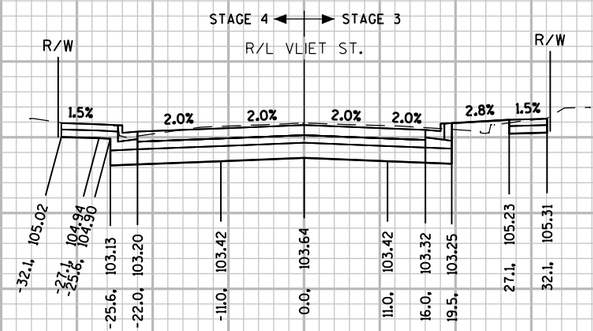
STA 30VL+00 TO 30VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 457	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\59400_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



31VL+50



31VL+00

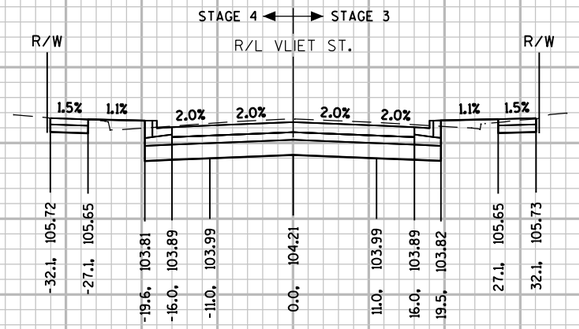
5 FT
10 FT

STA 31VL+00 TO 31VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 458	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Data Prep\2022_10_12\sht_xs2984000_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



32VL+50

32VL+00

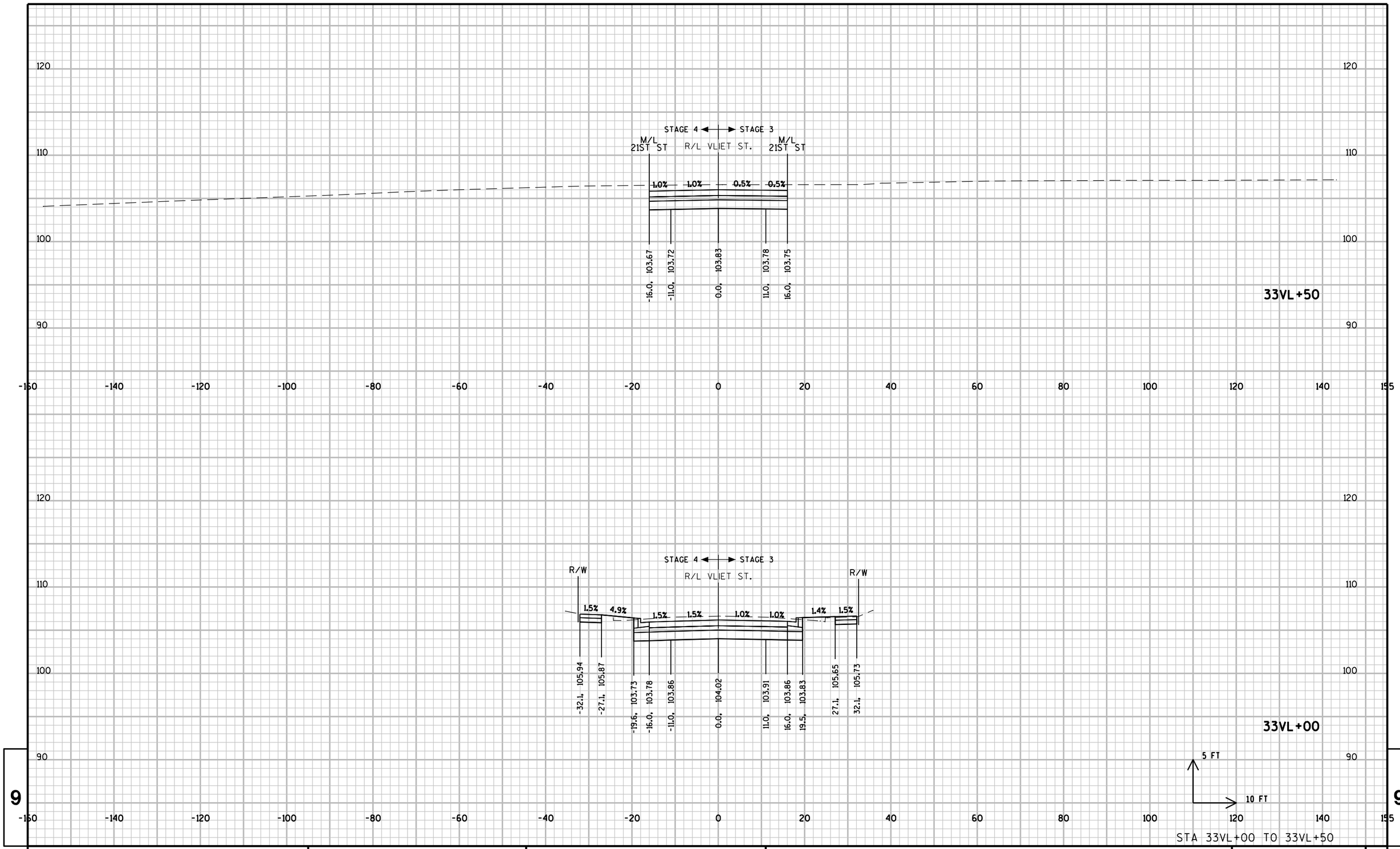
5 FT
10 FT

STA 32VL+00 TO 32VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 459	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod 2022\10x40sA0900_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

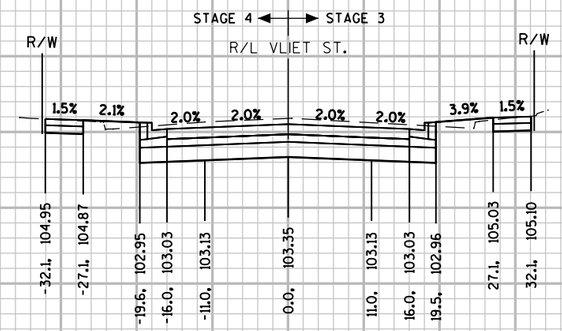


STA 33VL+00 TO 33VL+50

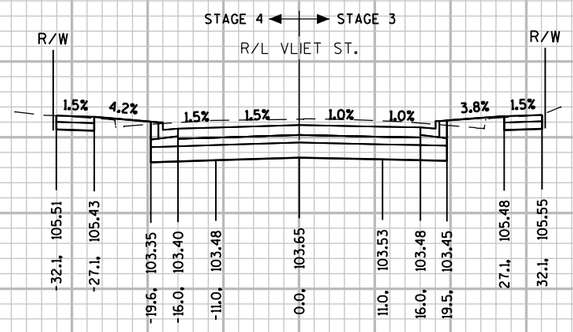
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 460	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\A0940200_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



34VL+50



34VL+00

5 FT
10 FT

STA 34VL+00 TO 34VL+50

9 9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 461	E

35VL+50

35VL+00

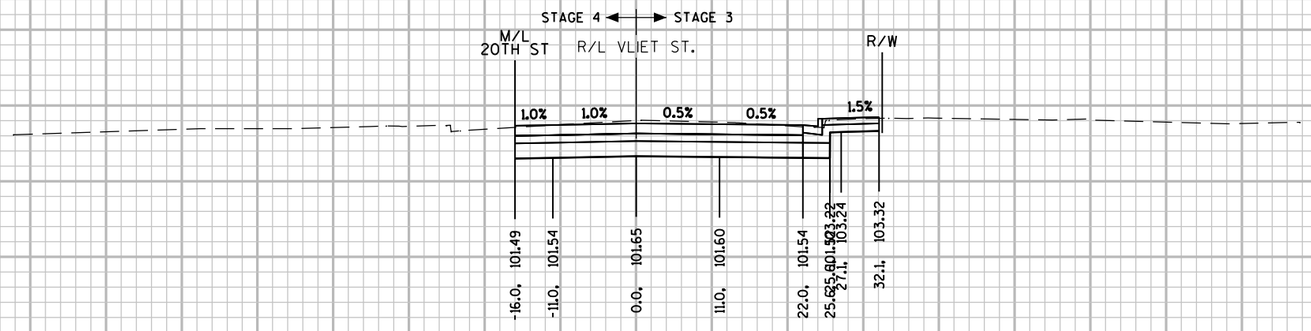
5 FT
10 FT

STA 35VL+00 TO 35VL+50

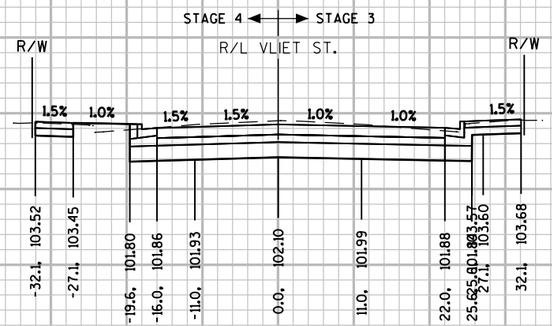
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 462	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway Design Products\10 xs\10xs10900_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



36VL+50



36VL+00

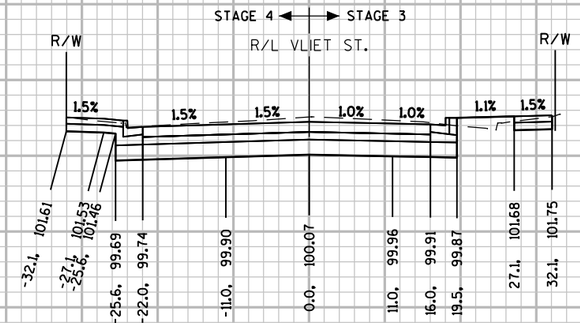
5 FT
10 FT

STA 36VL+00 TO 36VL+50

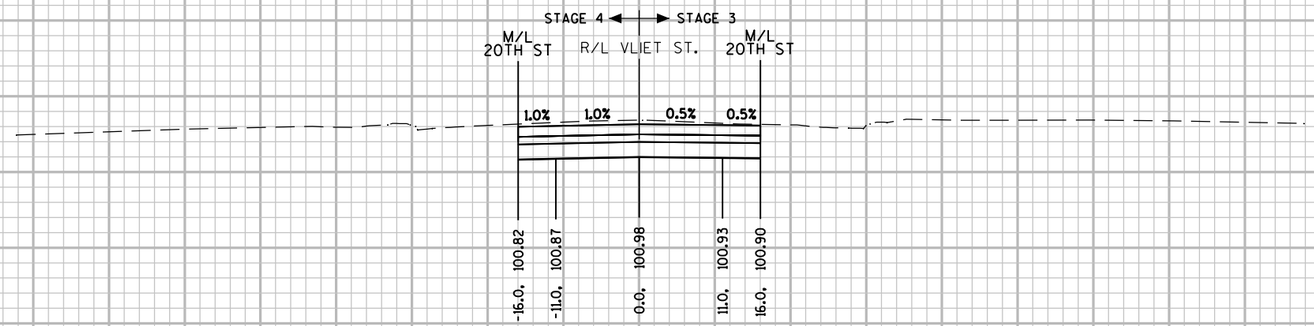
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10 xs\10940200_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



37VL+50

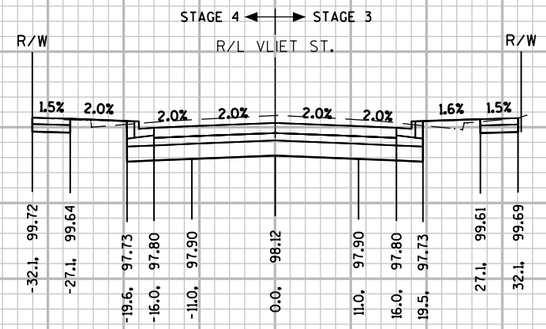


37VL+00

5 FT
10 FT

STA 37VL+00 TO 37VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 464	E



38VL+50

38VL+00

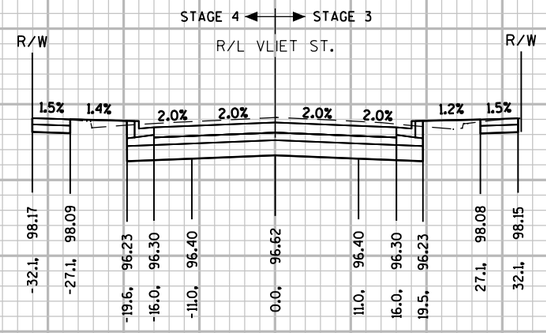
5 FT
10 FT

STA 38VL+00 TO 38VL+50

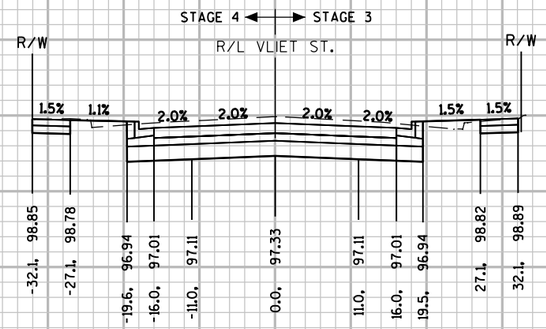
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 465	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\A109400_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



39VL+50



39VL+00

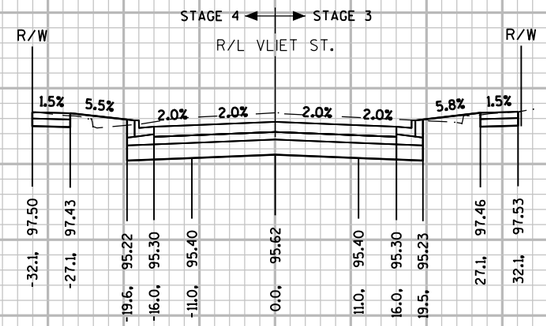
5 FT
10 FT

STA 39VL+00 TO 39VL+50

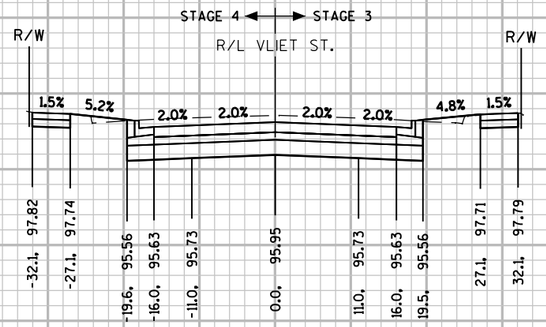
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10_xs\10940200_xs2VL.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



40VL+50



40VL+00

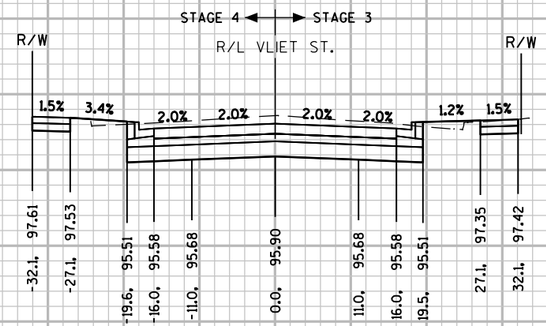
5 FT
10 FT

STA 40VL+00 TO 40VL+50

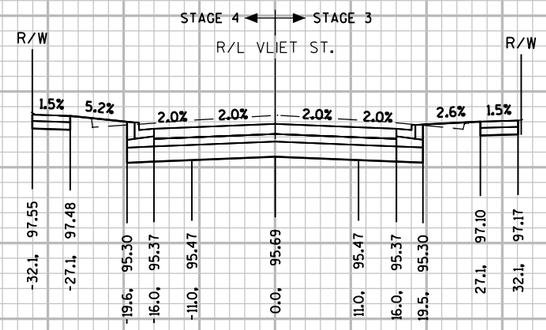
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 467	E

9

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod 2022\10 xs\xs40000_xs2VLTdgn
PLOT BY : ecastellan
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



41VL+50



41VL+00

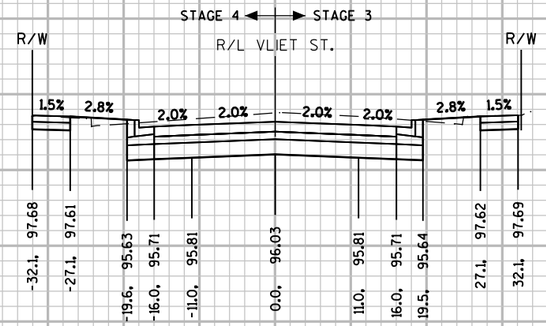
5 FT
10 FT

STA 41VL+00 TO 41VL+50

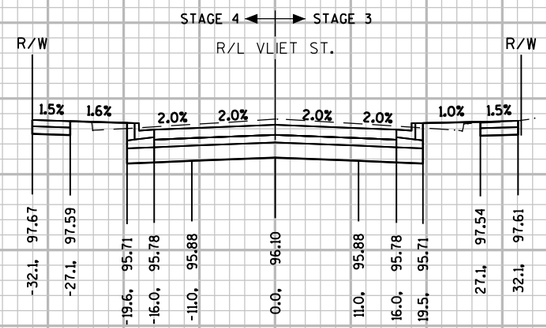
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 468	E

9

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10x40sA8940200_xs2VLTdgn : ecastellan
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



42VL+50



42VL+00

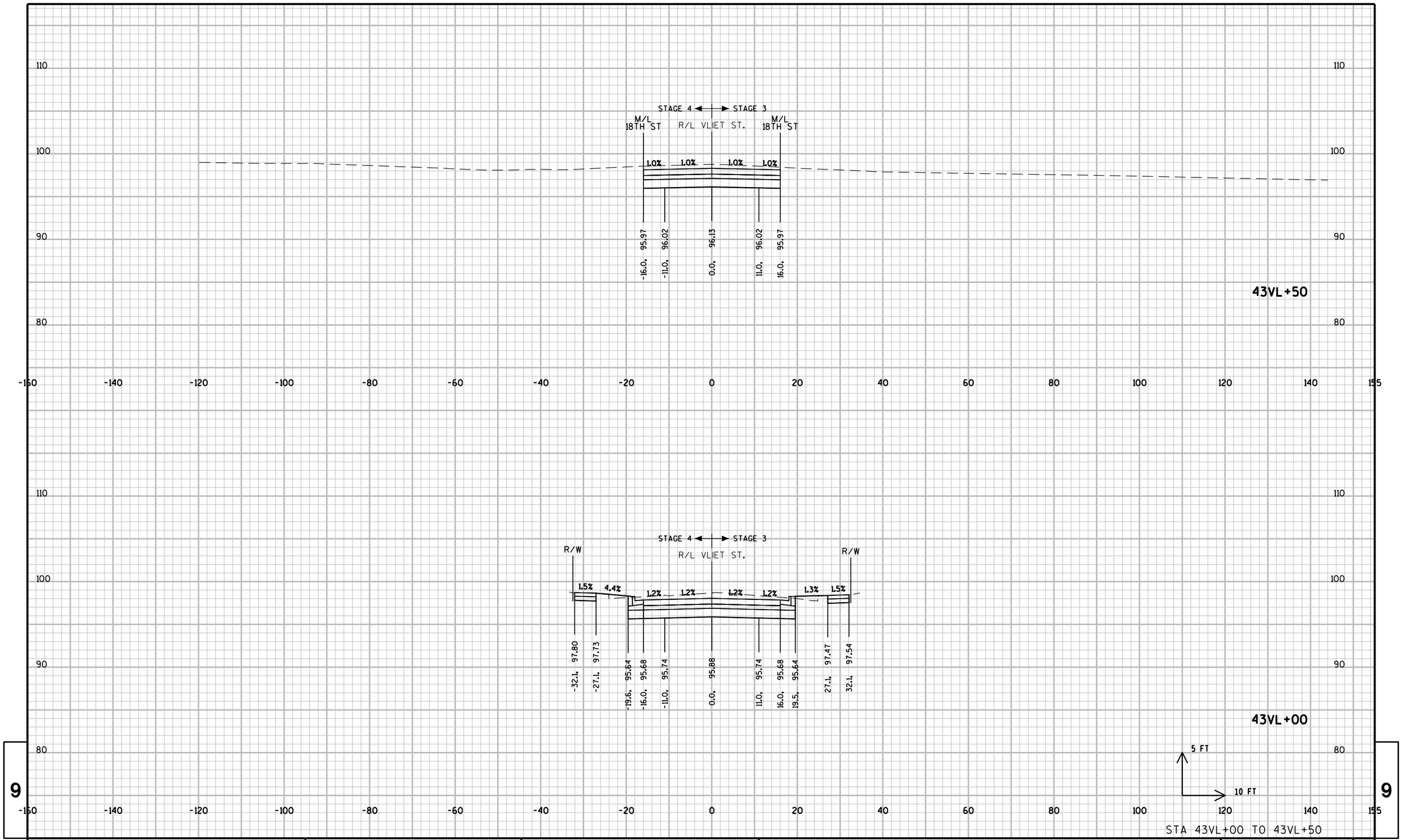
5 FT
10 FT

STA 42VL+00 TO 42VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 469	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_06\48940000_xs2VLTdgn : ecastellan PLOT NAME : PLOT SCALE : 20:1

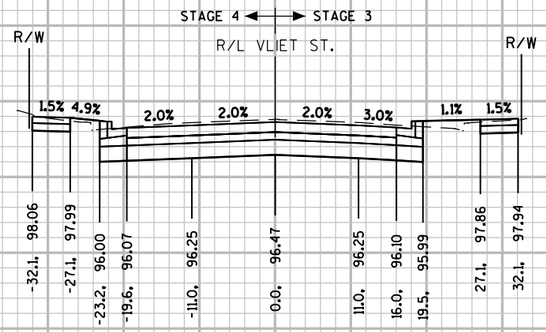
WISDOT/CADDS SHEET 21



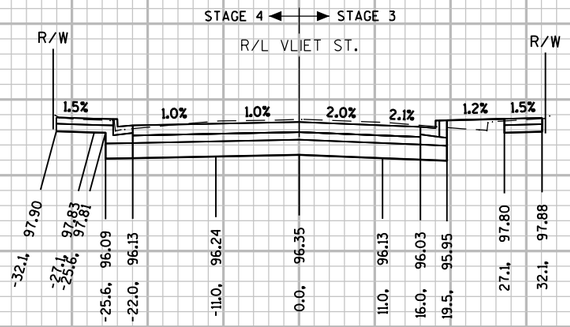
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 470	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Production\10_xs\990200_xs2VLTdgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



44VL+50



44VL+00

5 FT
10 FT

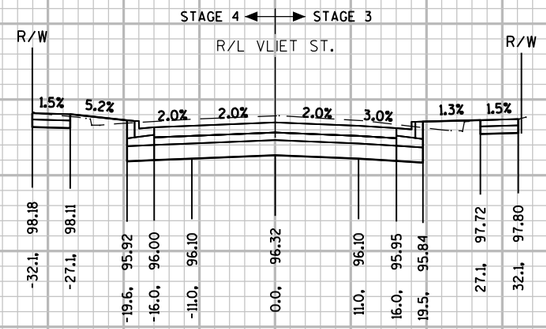
STA 44VL+00 TO 44VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 471	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Set Production\10_40_499000_xs2VLTdgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

45VL+50



45VL+00

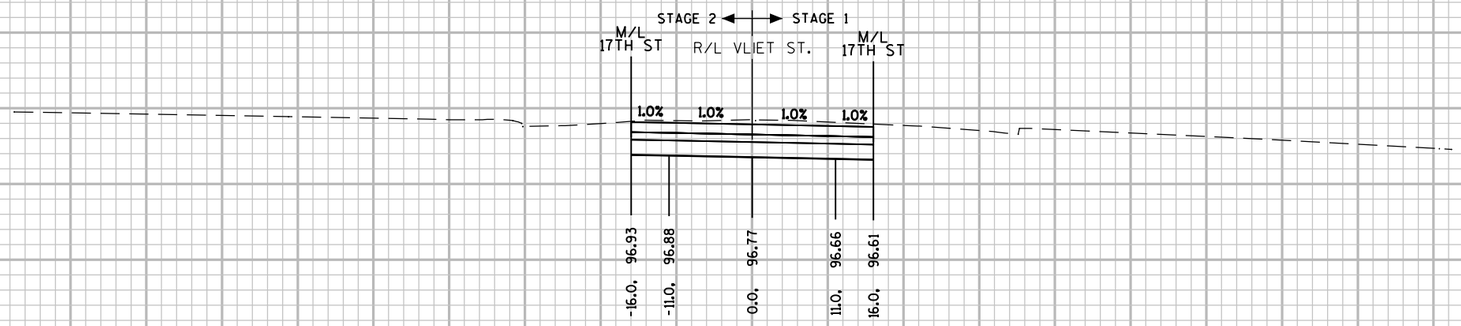
5 FT
10 FT

STA 45VL+00 TO 45VL+50

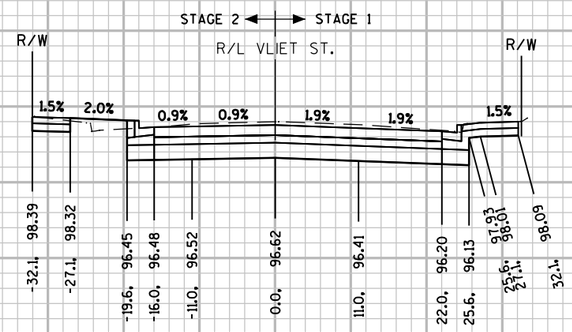
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 472	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\499000_xs2VLTdgn : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



46VL+50

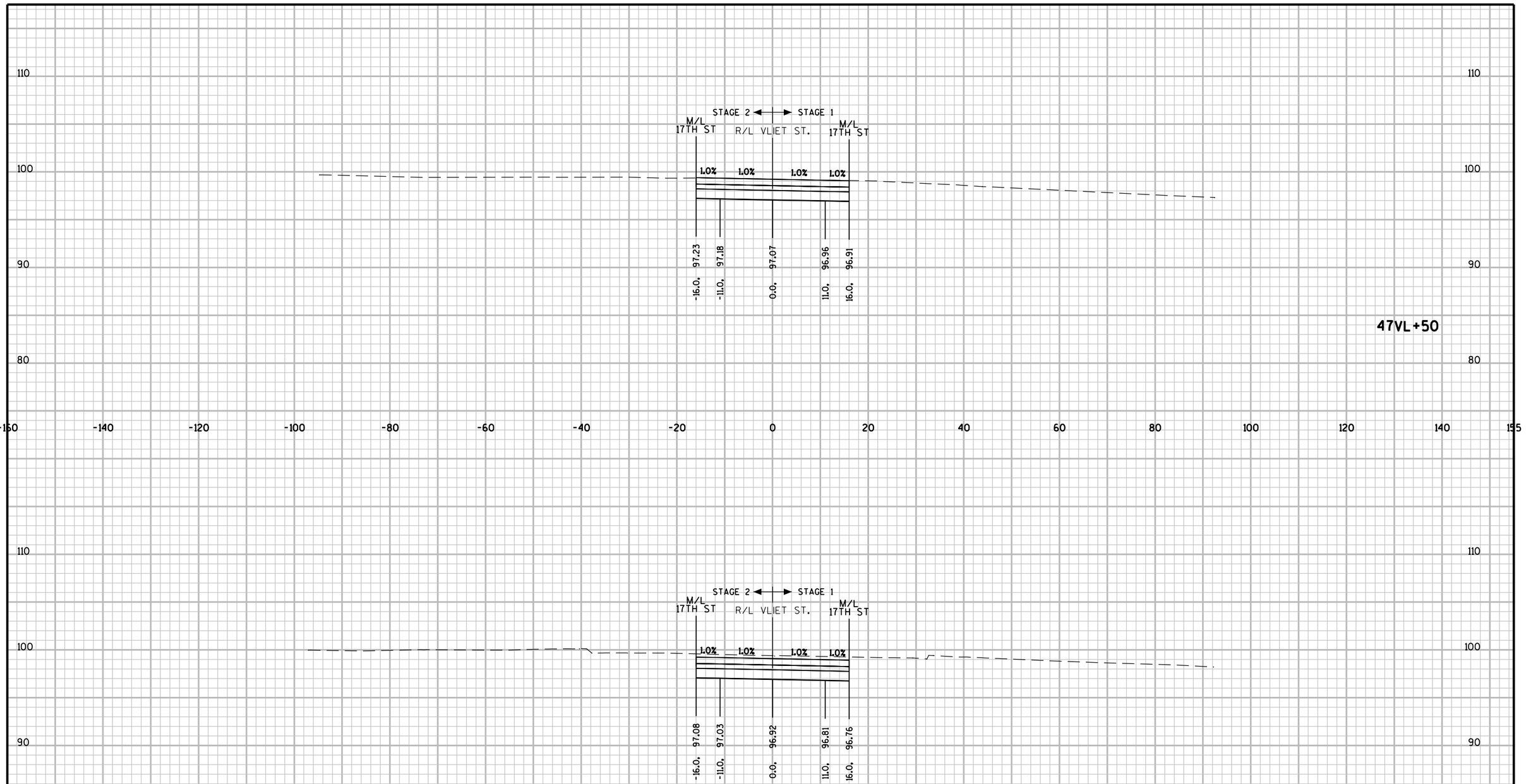


46VL+00

5 FT
10 FT

STA 46VL+00 TO 46VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 473	E

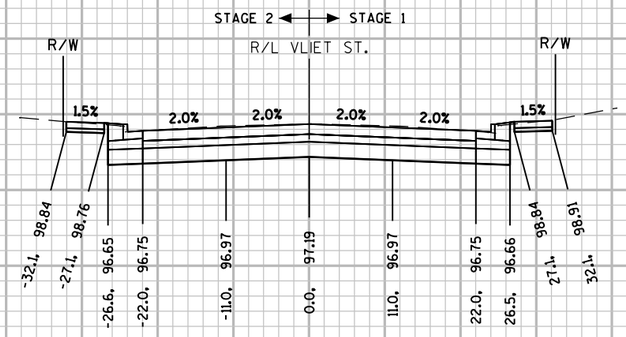


STA 47VL+00 TO 47VL+50

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 474	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Production\10x40xs0940200_xs2VLTd.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



48VL+50

48VL+00

5 FT
10 FT

STA 48VL+00 TO 48VL+50

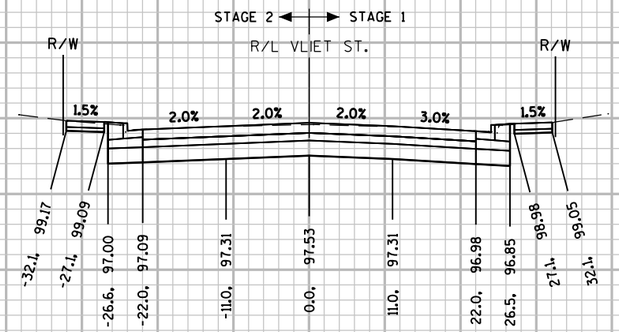
9

9

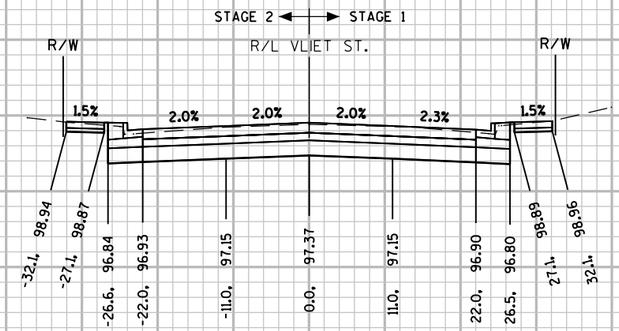
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 475	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Prod\2022_10_12_SS_0900_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



49VL+50



49VL+00

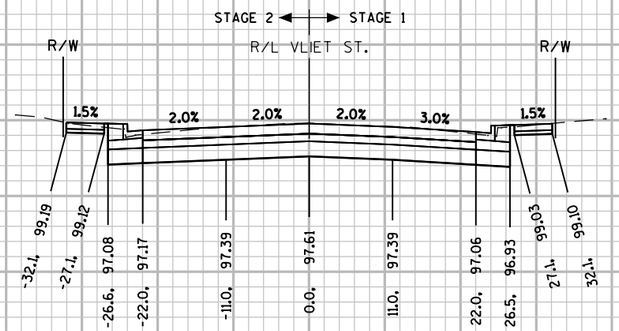
5 FT
10 FT

STA 49VL+00 TO 49VL+50

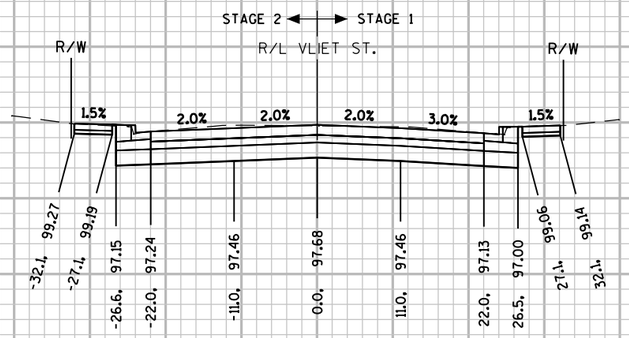
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Production\10_Cross Sections\00_xs2VLTdgn
PLOT DATE : 7/7/2022
PLOTTED BY : ecastellan
PLOT NAME :
PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



50VL+50



50VL+00

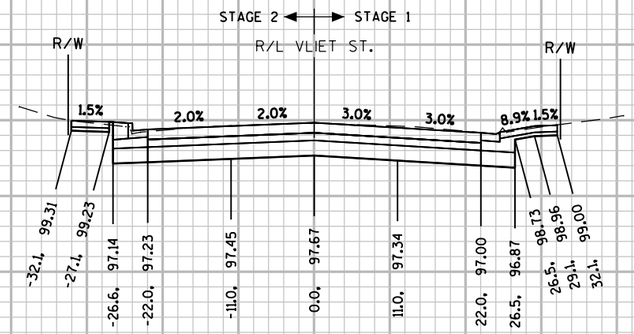
5 FT
10 FT

STA 50VL+00 TO 50VL+50

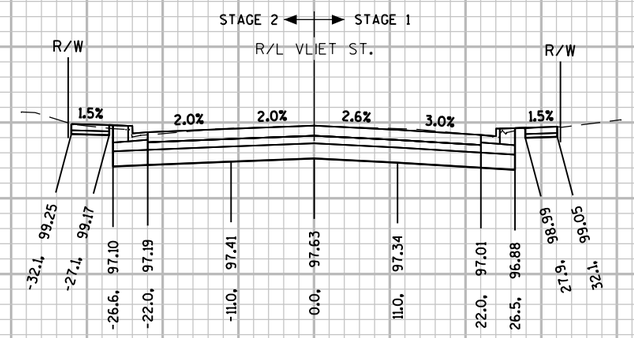
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 477	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Sheets\10x40x50_xs2VLTdgn PLOTTED BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



51VL+12
DWY RT



51VL+00

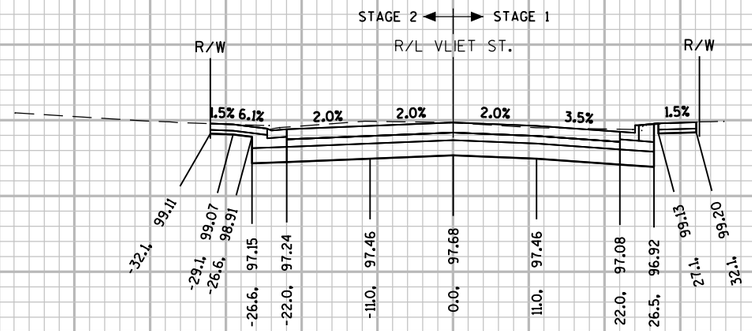
5 FT
10 FT

STA 51VL+00 TO 51VL+12

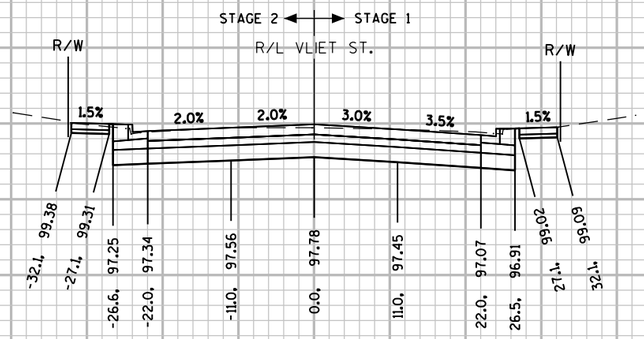
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 478	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12_51VL090000_xs2VL1dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



51VL+83
DWY LT



51VL+50

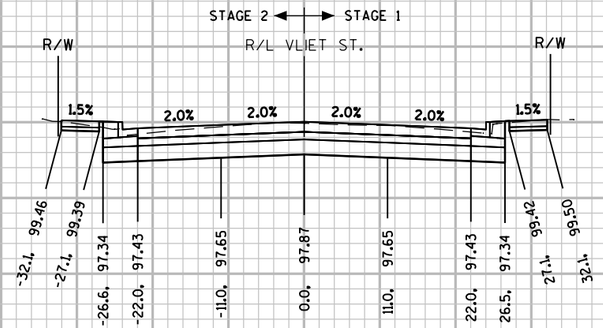
5 FT
10 FT

STA 51VL+50 TO 51VL+83

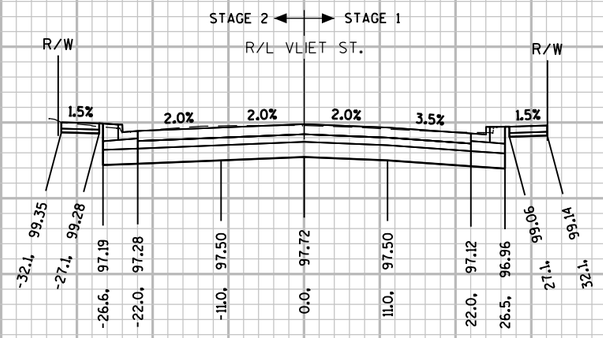
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 479	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022-10-05\10-05-0900_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



52VL+50



52VL+00

5 FT
10 FT

STA 52VL+00 TO 52VL+50

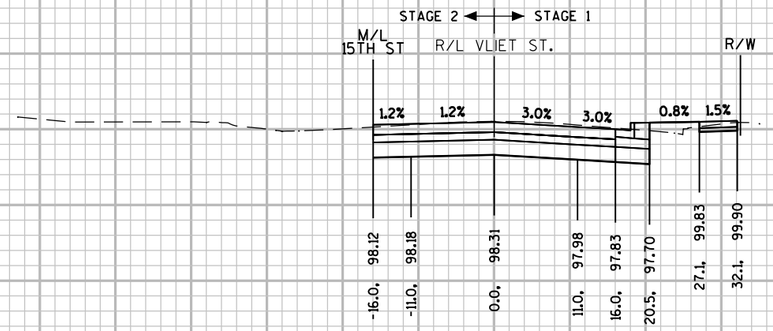
9

9

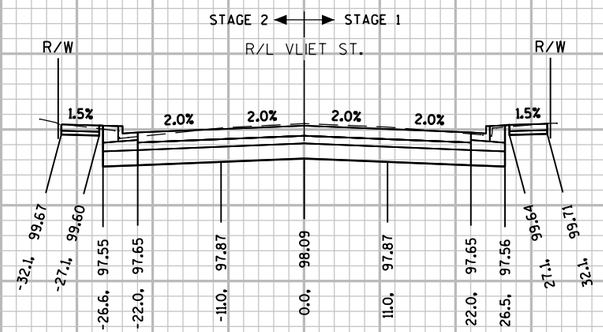
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 480	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022-10-05 0940\00_xs2VLTdsn.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



53VL+50



53VL+00

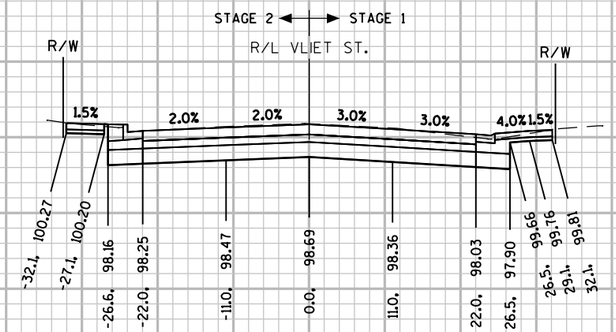
5 FT
10 FT

STA 53VL+00 TO 53VL+50

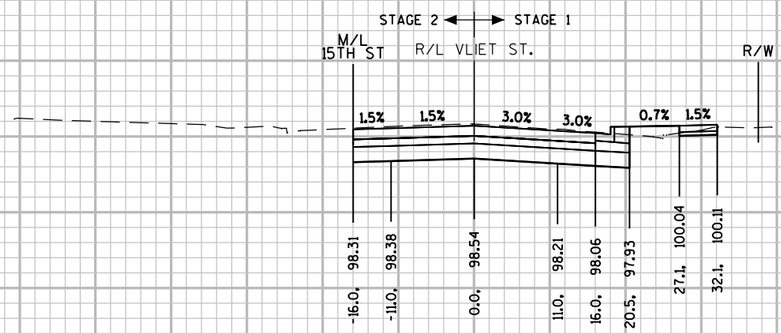
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 481	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Production\10_xsec\2984000_xs2VOT.dgn PLOT DATE : 7/7/2022 PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



54VL+28
DWY RT

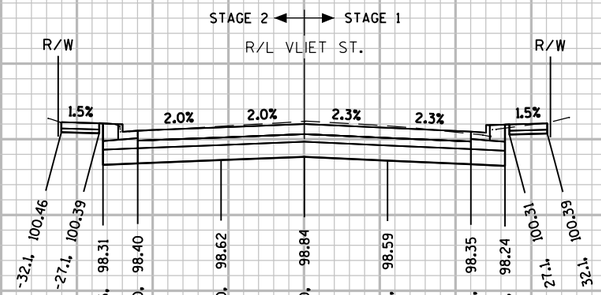


54VL+00

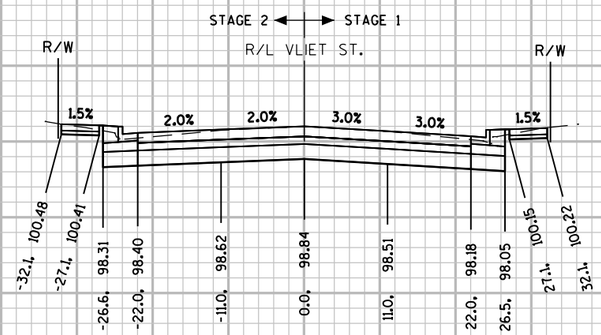
5 FT
10 FT

STA 54VL+00 TO 54VL+28

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 482	E



55VL+00



54VL+50

5 FT
10 FT

STA 54VL+50 TO 55VL+00

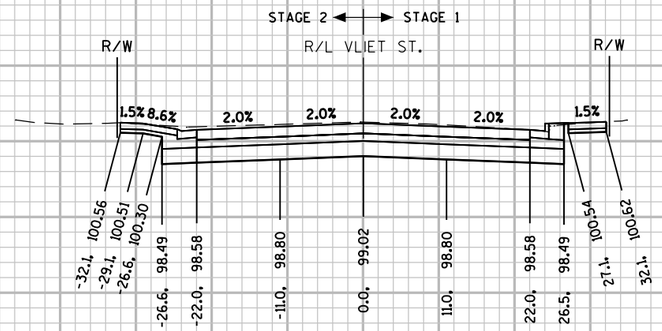
9

9

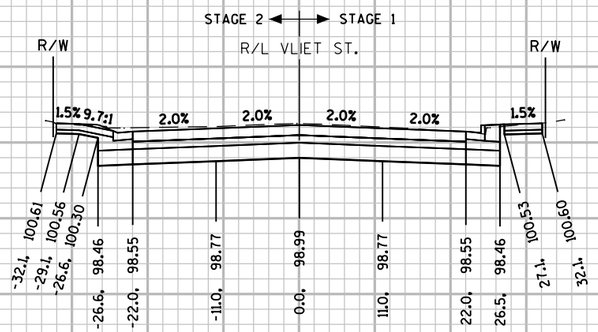
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 483	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Production\xs\63342_xs2VLTdgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



55VL+60
DWY LT



55VL+50

5 FT
10 FT

STA 55VL+50 TO 55VL+60

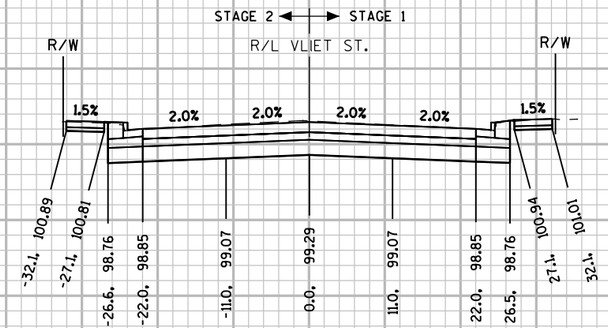
9

9

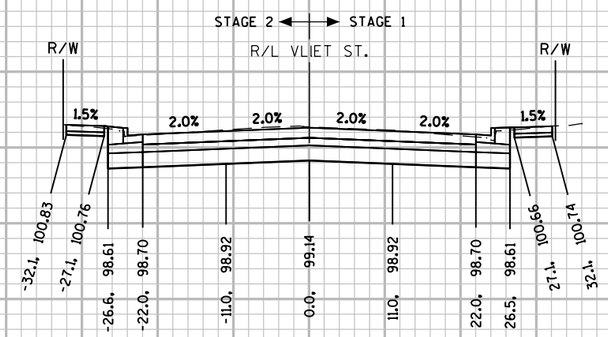
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 484	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\53940000_xs2VLTdgn : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



56VL+50



56VL+00

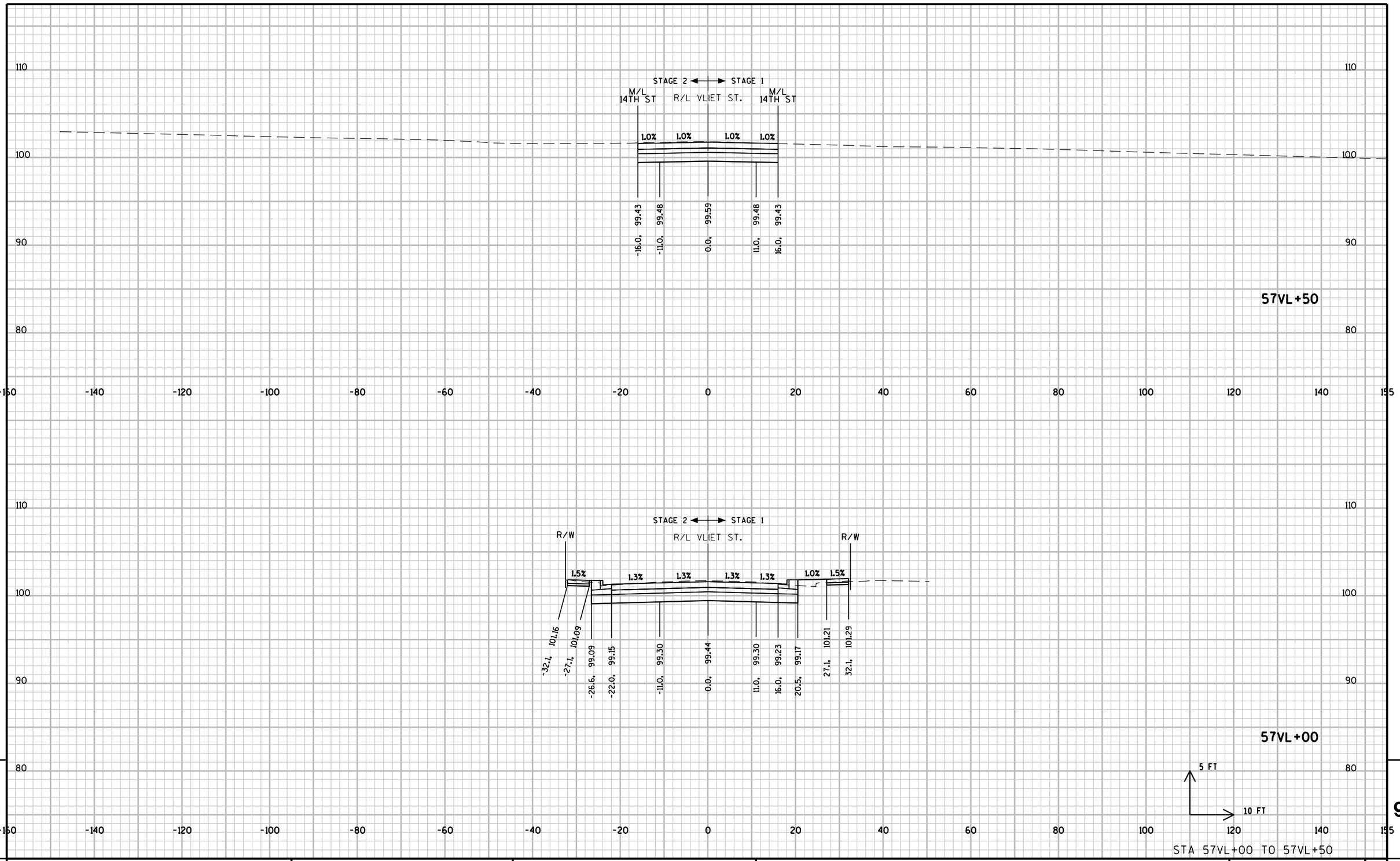
5 FT
10 FT

STA 56VL+00 TO 56VL+50

9

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 485	E

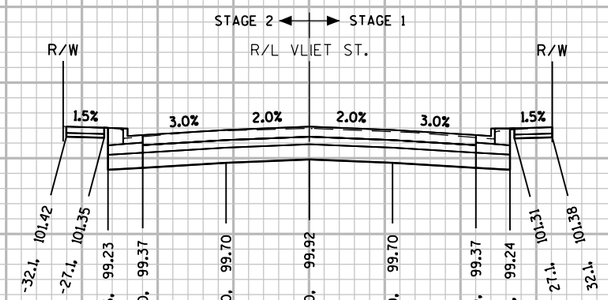


STA 57VL+00 TO 57VL+50

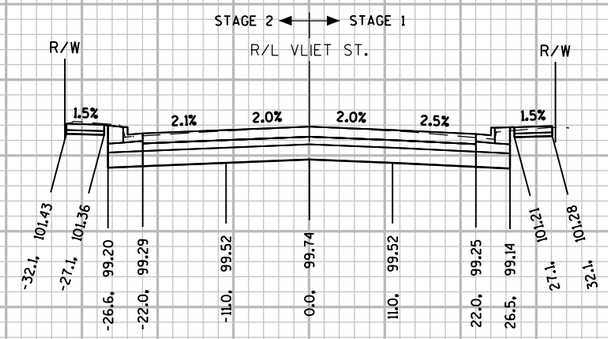
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 486	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Products\10 xsDetail\xs_2984-00-74_xs2VL00.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



58VL+50



58VL+00

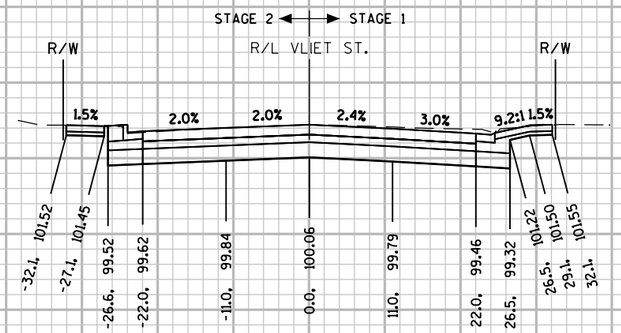
5 FT
10 FT

STA 58VL+00 TO 58VL+50

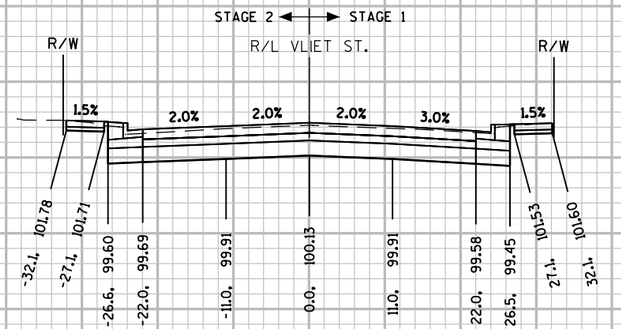
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 487	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10x40x5D9000_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



59VL+34



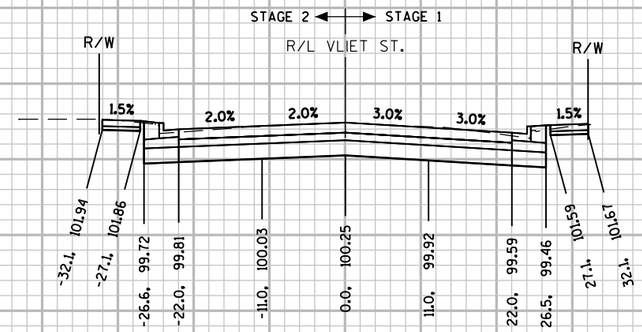
59VL+00

5 FT
10 FT

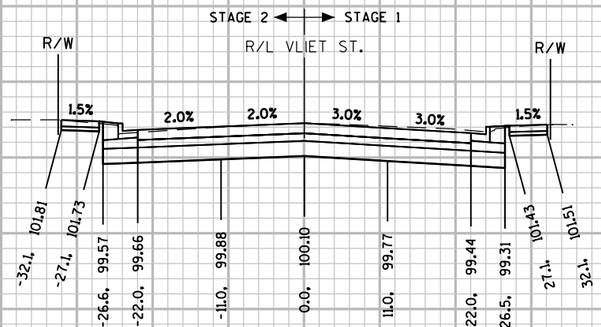
STA 59VL+00 TO 59VL+34

9 9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 488	E



60VL+00



59VL+50

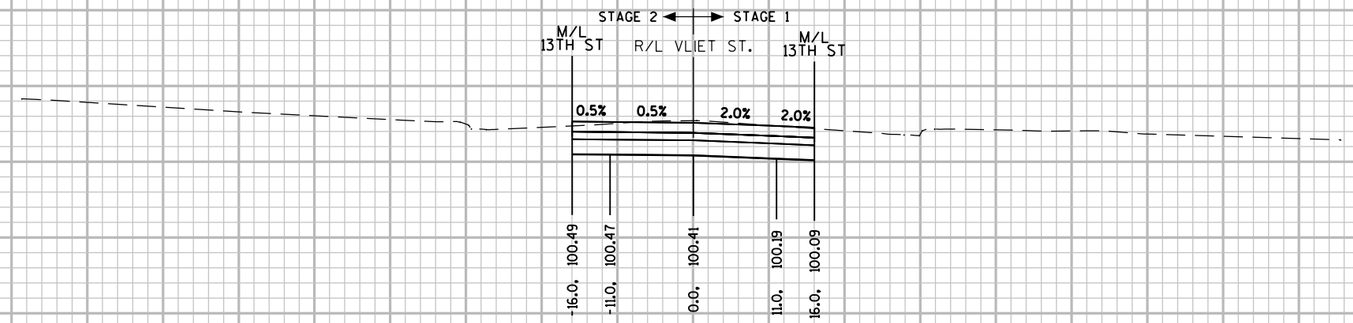
5 FT
10 FT

STA 59VL+50 TO 60VL+00

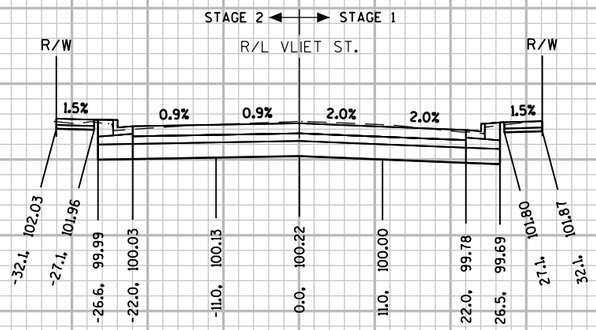
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 489	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12_5090200_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



61VL+00



60VL+50

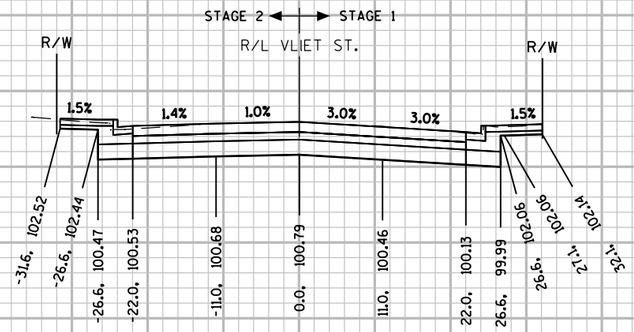
5 FT
10 FT

STA 60VL+50 TO 61VL+00

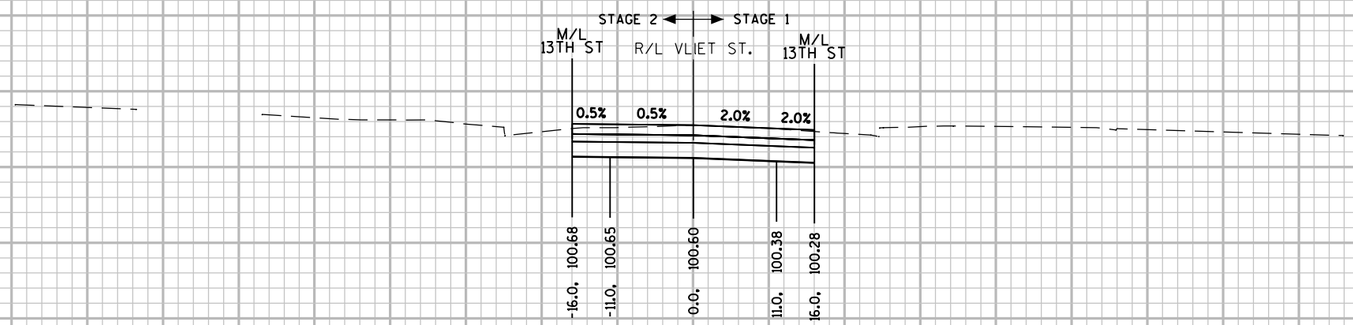
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 490	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\11x425090200_xs2VLTdgn : ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



62VL+00



61VL+50

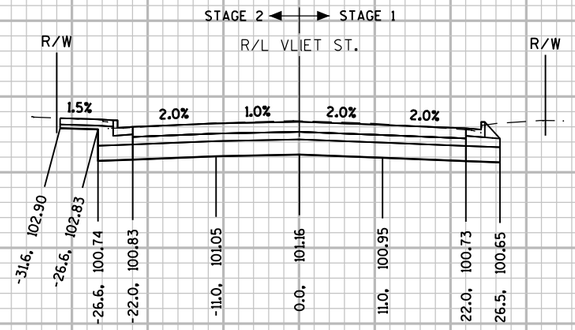
5 FT
10 FT

STA 61VL+50 TO 62VL+00

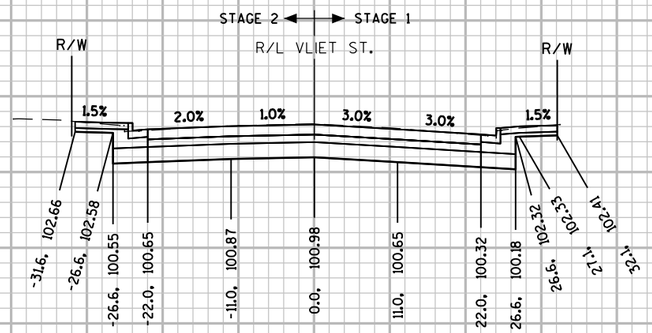
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\22\10x42s0940200_xs2VOT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

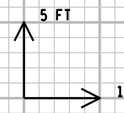
WISDOT/CADDS SHEET 21



63VL+00



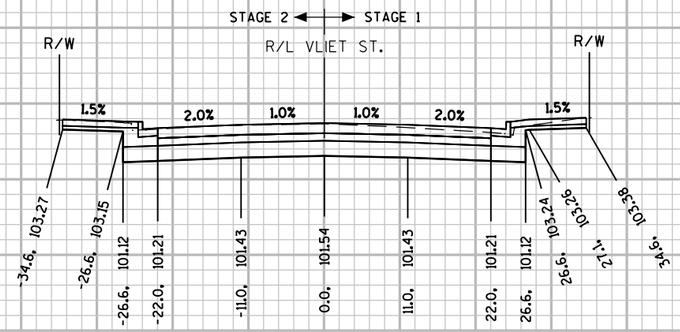
62VL+50



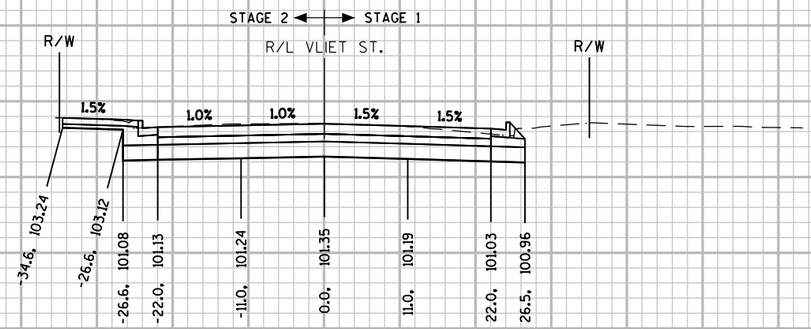
STA 62VL+50 TO 63VL+00

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET	E

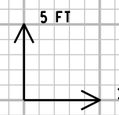
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Folder\Roadway\10_xs\5D90000_xs2VLTdgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1



64VL+00



63VL+50

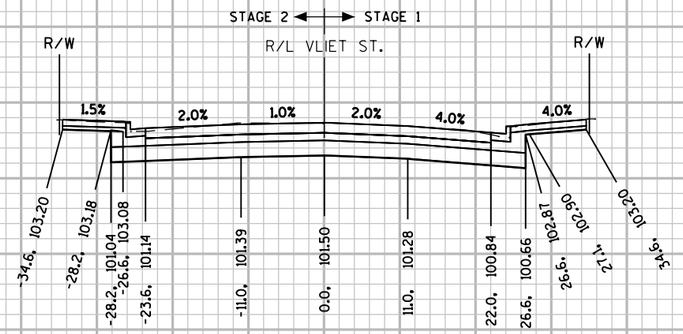


STA 63VL+50 TO 64VL+00

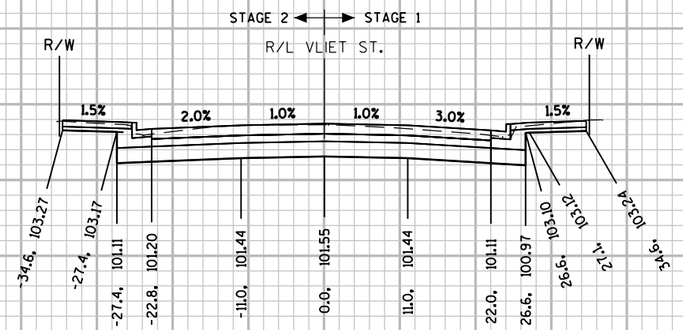
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 493	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_06_SD_XS_63342000_xs2VLT.dgn PLOT BY : ecastellan PLOT NAME : PLOT SCALE : 20:1

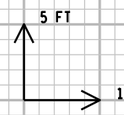
WISDOT/CADDS SHEET 21



64VL+75
STA BACK



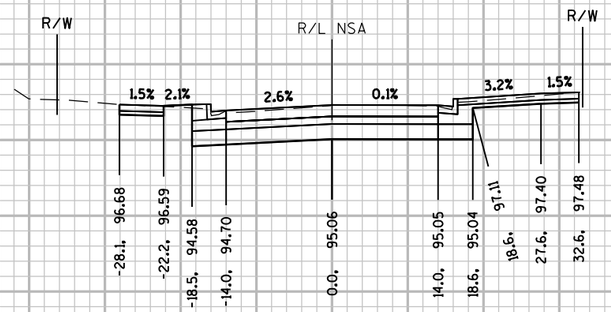
64VL+50



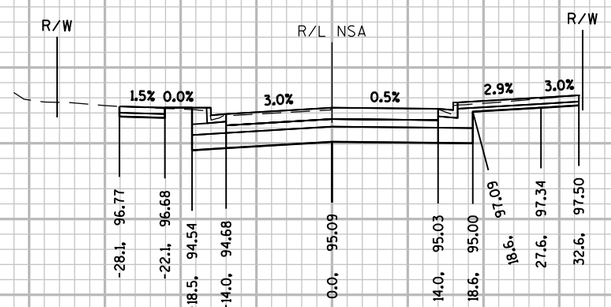
STA 64VL+50 TO 64VL+75

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: VLIET STREET	SHEET 494	E

ALL WORK COMPLETED IN STAGE 3



9NSA+60



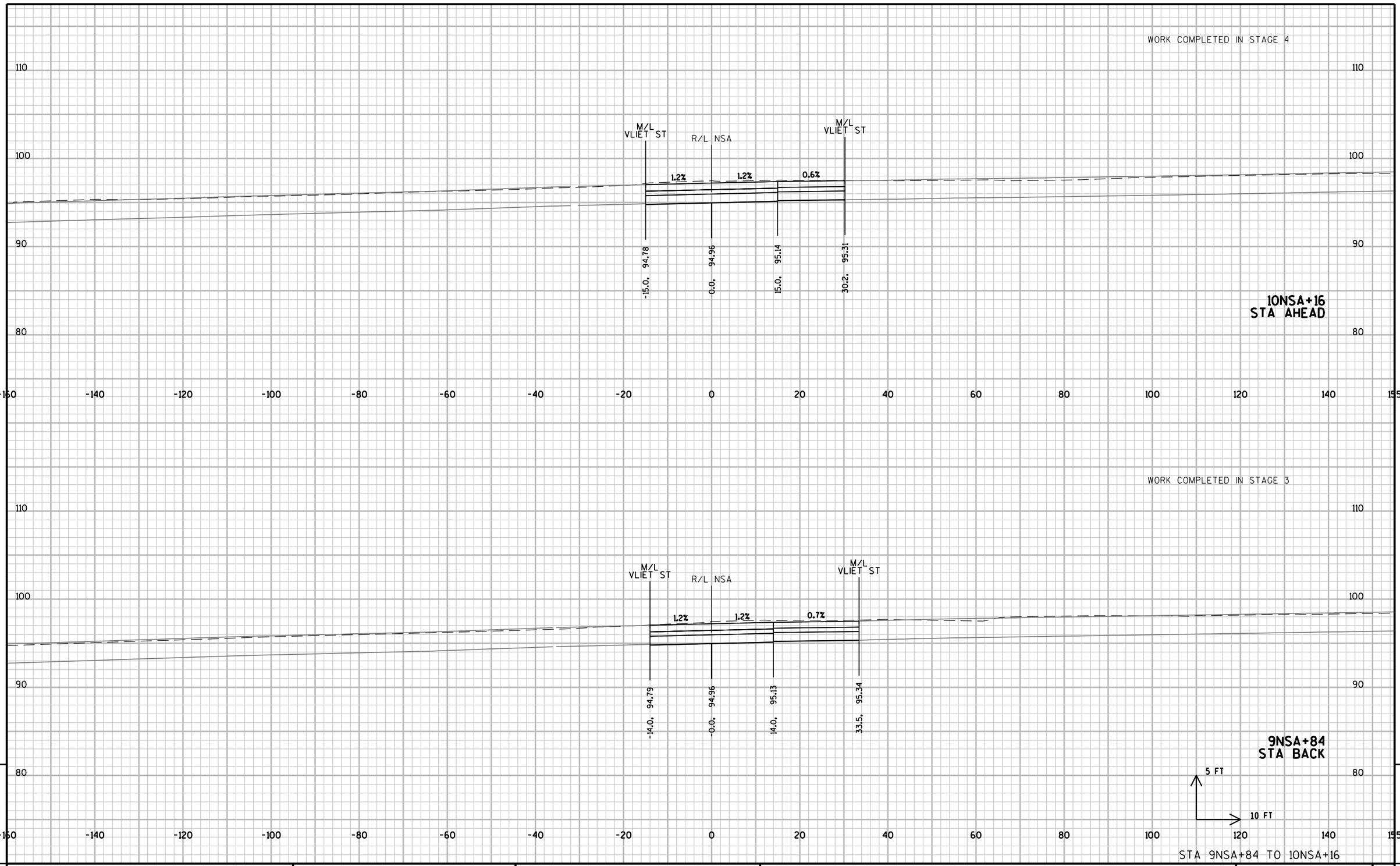
9NSA+53
STA AHEAD

5 FT
10 FT

STA 9NSA+53 TO 9NSA+60

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 26TH STREET	SHEET 495	E

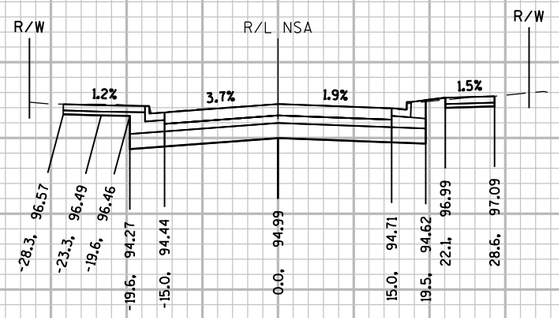


9

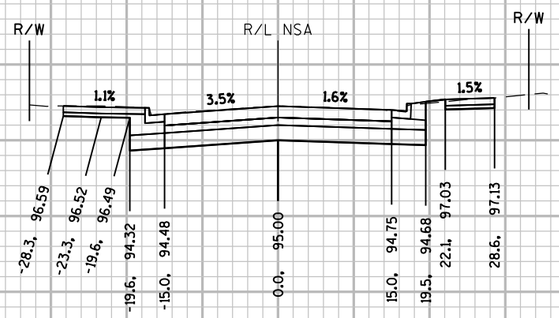
STA 9NSA+84 TO 10NSA+16

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 26TH STREET	SHEET 496	E

ALL WORK COMPLETED IN STAGE 4



10NSA+53
STA BACK



10NSA+50

5 FT
10 FT

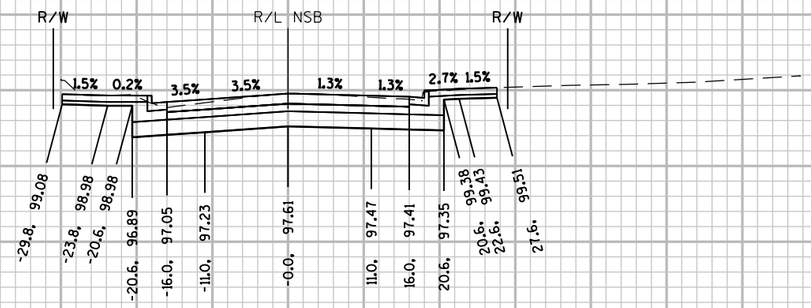
STA 10NSA+50 TO 10NSA+53

9

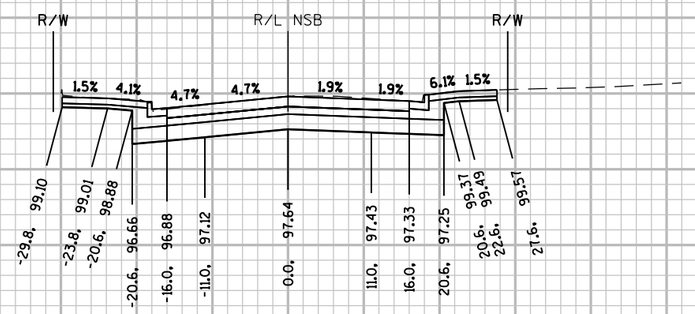
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 26TH STREET	SHEET 497	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Products\10x42s090402_xs2NSA.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3



9NSB+60



9NSB+53
STA AHEAD

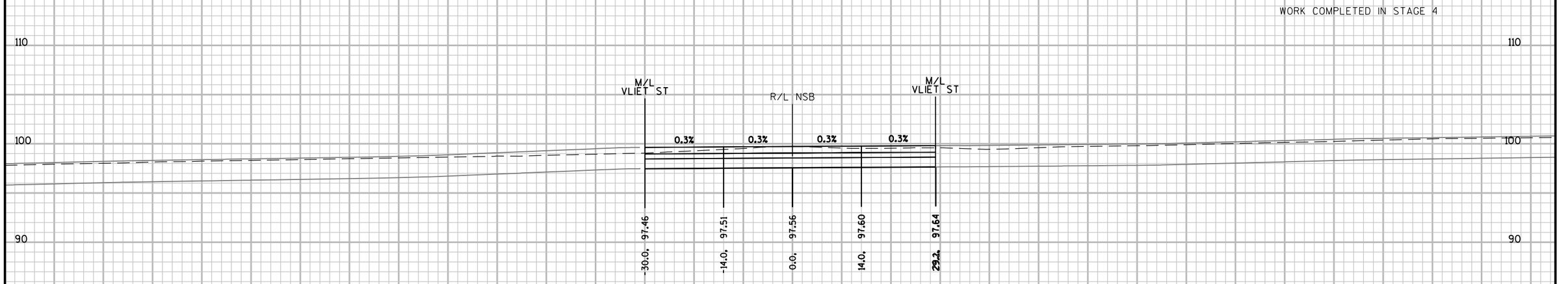
5 FT
10 FT

STA 9NSB+53 TO 9NSB+60

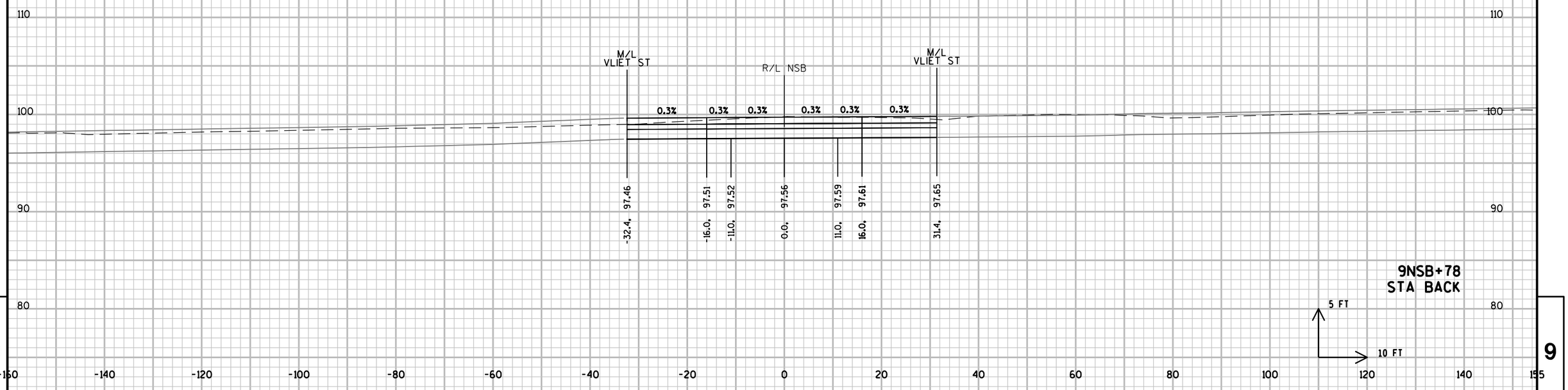
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 25TH STREET	SHEET 498	E

WORK COMPLETED IN STAGE 4



WORK COMPLETED IN STAGE 3



STA 9NSB+78 TO 10NSB+22

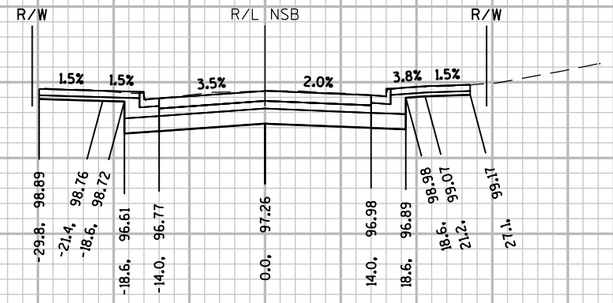
9

9

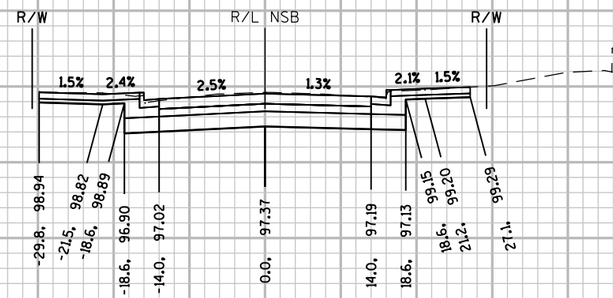
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 25TH STREET	SHEET 499	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Productio\10x42x29002_xs2NSB.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSB+48
STA BACK



10NSB+40

5 FT
10 FT

STA 10NSB+40 TO 10NSB+48

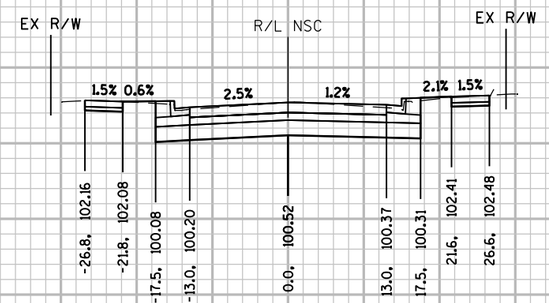
9

9

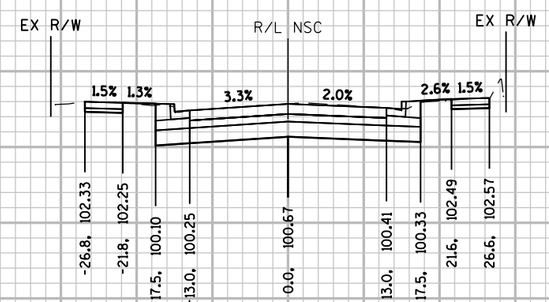
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 25TH STREET	SHEET 500	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\10x42x29_xs2NSB.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3



9NSC+60



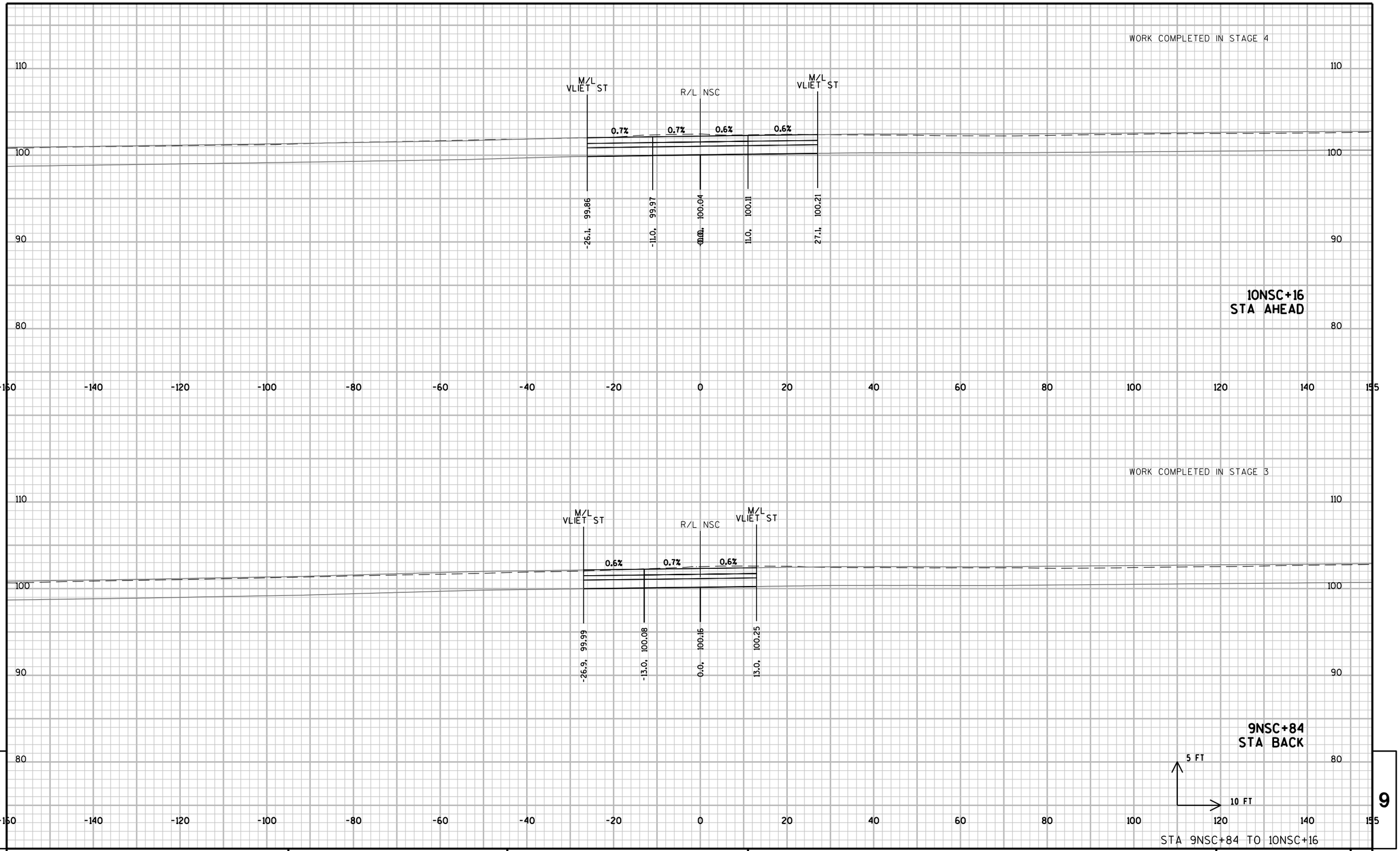
9NSC+50
STA AHEAD

5 FT
10 FT

STA 9NSC+50 TO 9NSC+60

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH PLACE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Preliminary\10x42s090002_xs2NSC.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21



STA 9NSC+84 TO 10NSC+16

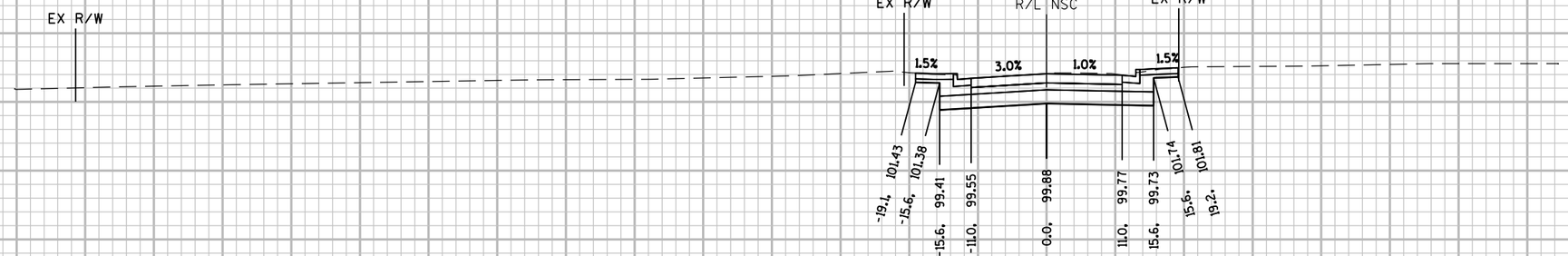
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH PLACE	SHEET 502	E

9

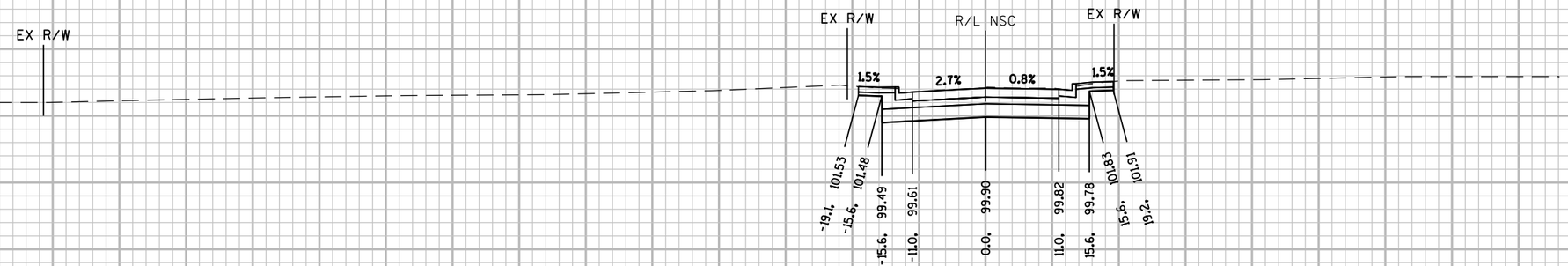
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10x42x594202_xs2NSC.dgn PLOT DATE : 7/7/2022 10:42:59 AM User: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSC+44
STA BACK



10NSC+40

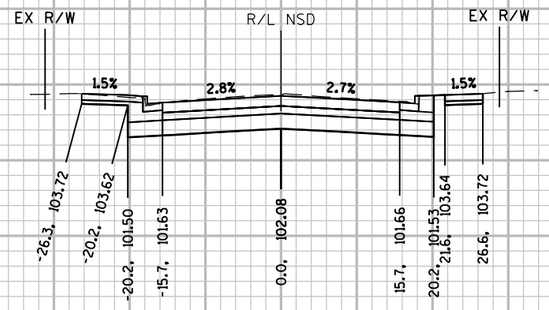
5 FT
10 FT

STA 10NSC+40 TO 10NSC+44

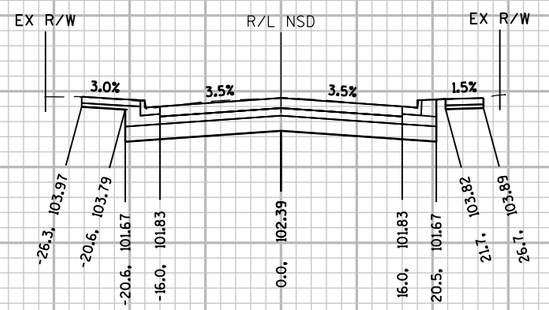
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH PLACE	SHEET 503	E

ALL WORK COMPLETED IN STAGE 3



9NSD+50



9NSD+41
STA AHEAD

5 FT
10 FT

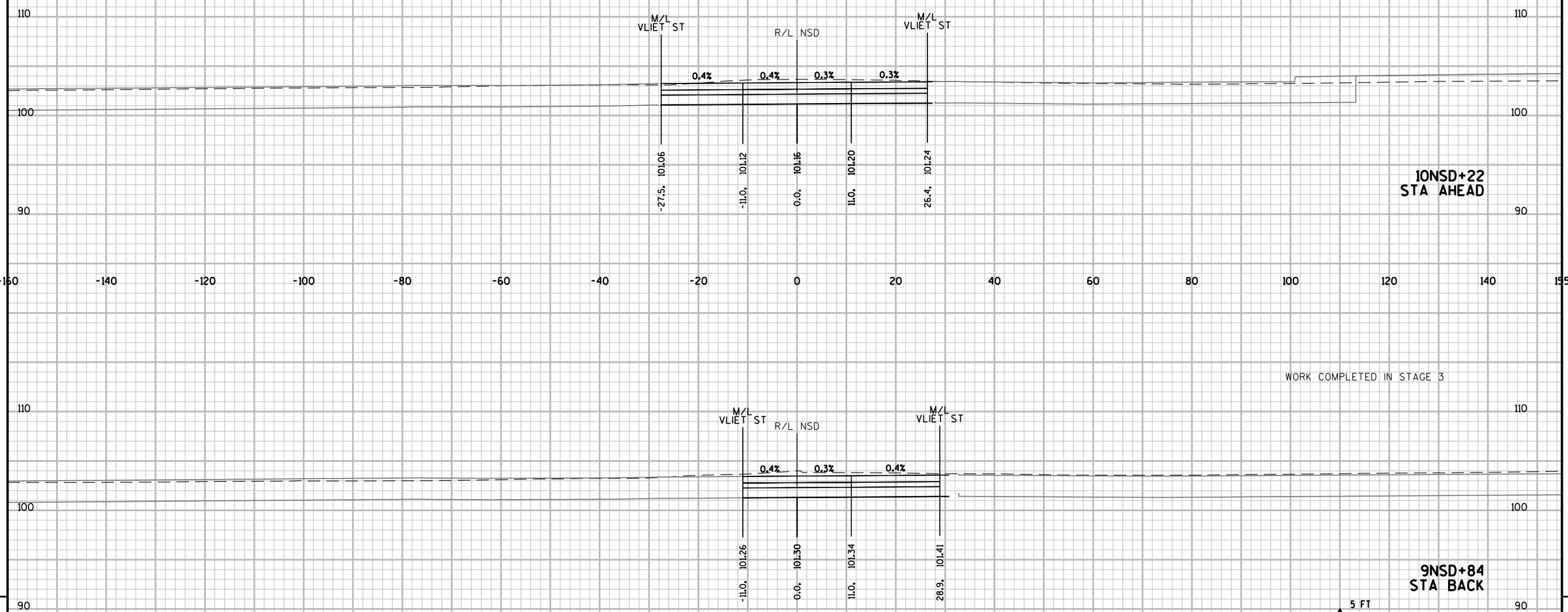
STA 9NSD+41 TO 9NSD+50

9

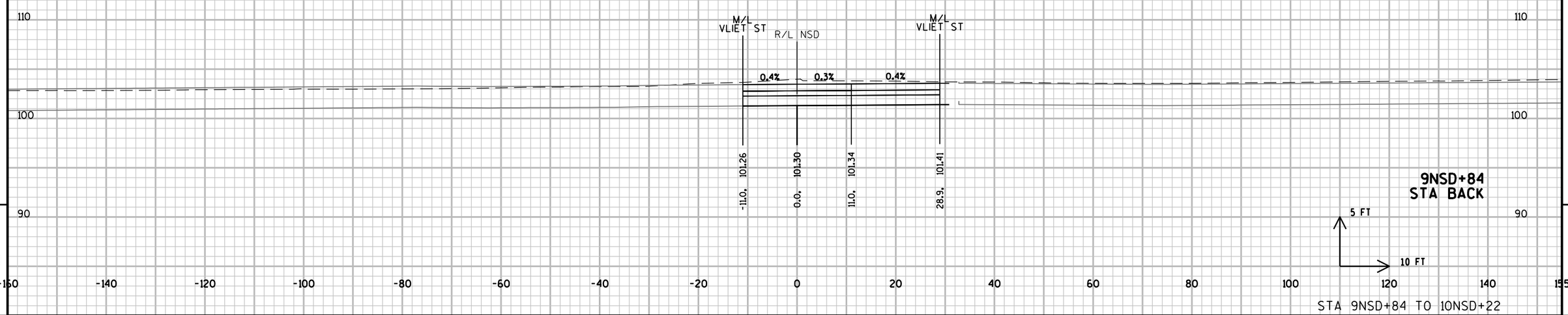
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH STREET	SHEET 504	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10.42ss890002_xs2NSD.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

WORK COMPLETED IN STAGE 4



WORK COMPLETED IN STAGE 3



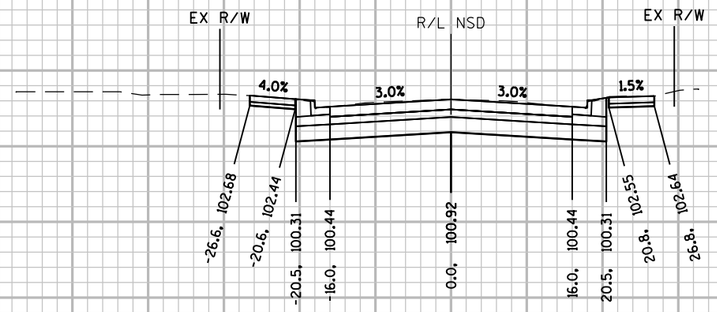
STA 9NSD+84 TO 10NSD+22

9

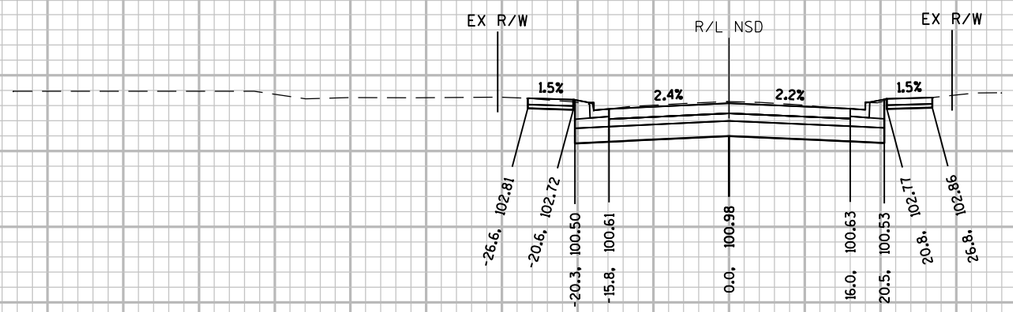
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH STREET	SHEET 505	E

ALL WORK COMPLETED IN STAGE 4



10NSD+59
STA BACK



10NSD+50

5 FT
10 FT

STA 10NSD+50 TO 10NSD+59

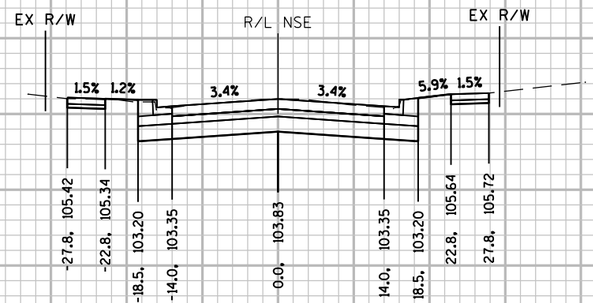
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 24TH STREET	SHEET 506	E

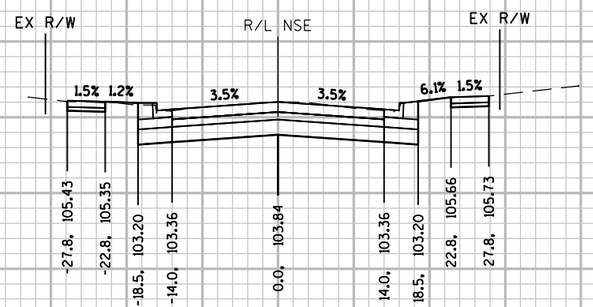
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10x42x58\02_xs2NSD.dgn: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3



9NSE+50



9NSE+49
STA AHEAD

5 FT
10 FT

STA 9NSE+49 TO 9NSE+50

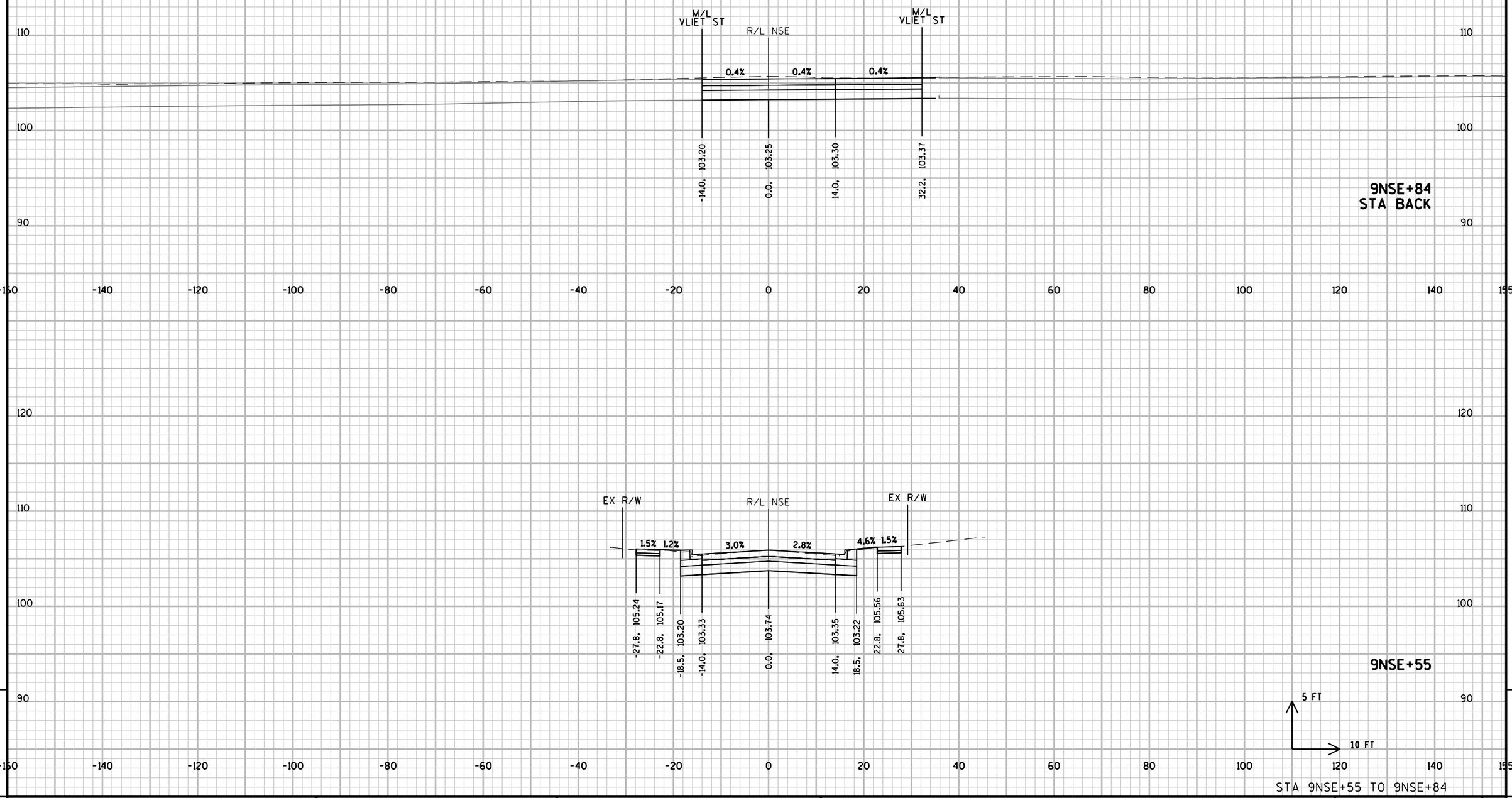
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 22ND STREET	SHEET 507	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\101-43-10902_xs2NSE.dgn PLOT DATE : 7/7/2022 PLOT BY: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3

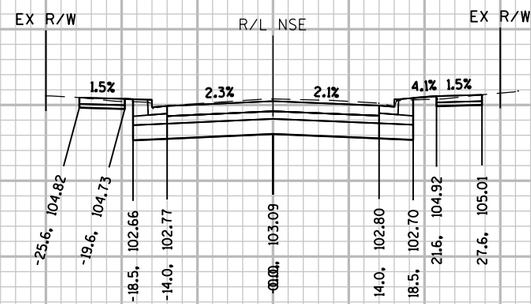


STA 9NSE+55 TO 9NSE+84

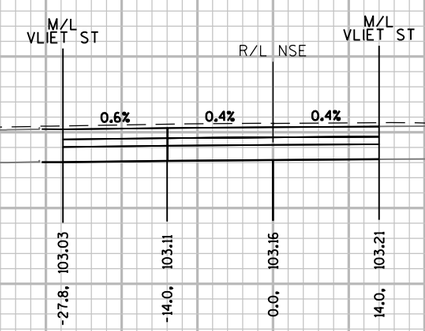
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 22ND STREET	SHEET 508	E

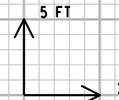
ALL WORK COMPLETED IN STAGE 4



10NSE+40



10NSE+16
STA AHEAD



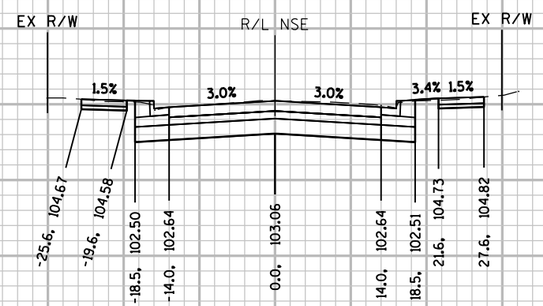
STA 10NSE+16 TO 10NSE+40

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 22ND STREET	SHEET 509	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\10_Oct_0902_xs2NSE.dgn PLOT NAME : PLOT SCALE : 20:1 PLOTTED BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



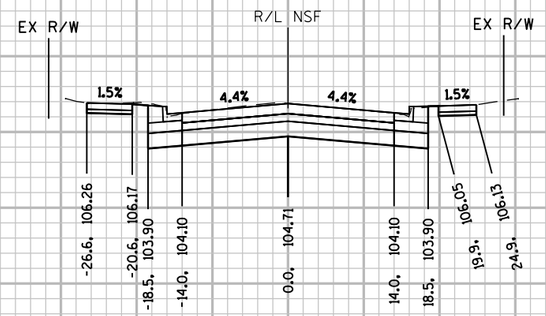
10NSE+49
STA BACK

5 FT
10 FT

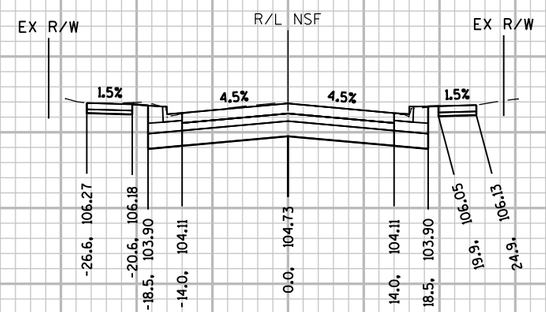
STA 10NSE+49 TO 10NSE+49

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 22ND STREET	SHEET 510	E

ALL WORK COMPLETED IN STAGE 3



9NSF+50



9NSF+49
STA AHEAD

5 FT
10 FT

STA 9NSF+49 TO 9NSF+50

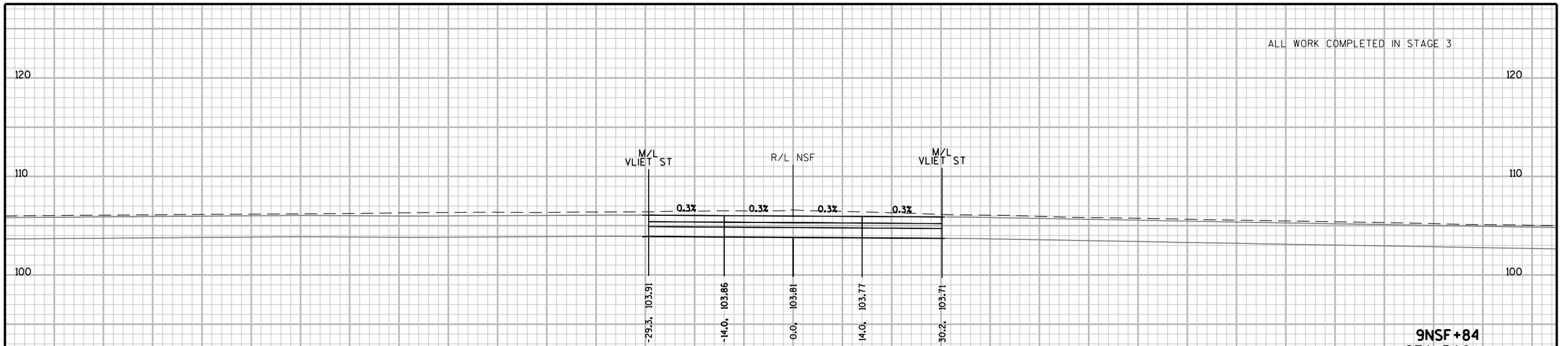
9

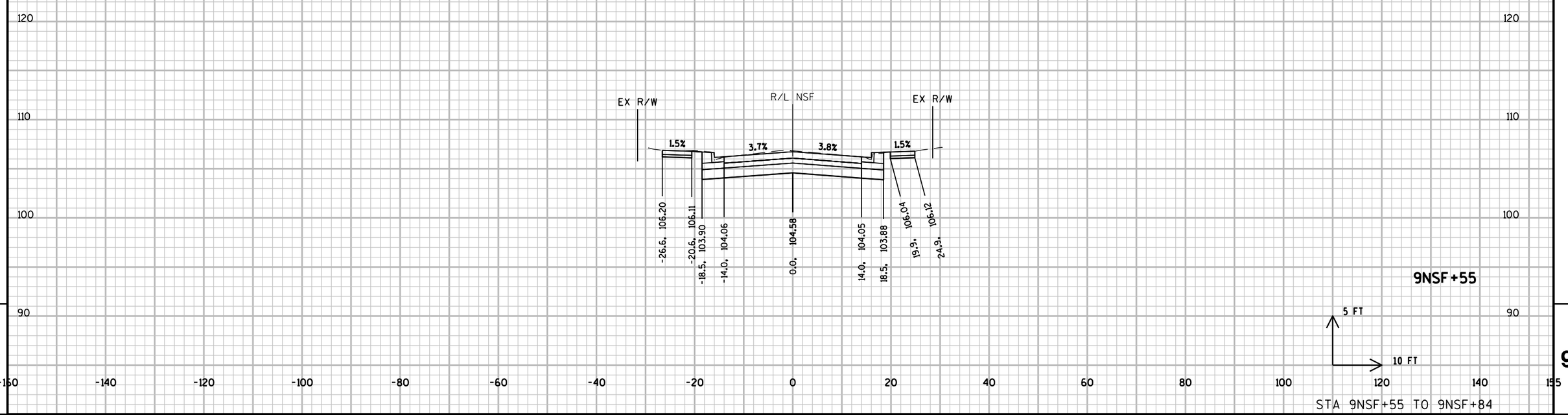
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST STREET	SHEET 511	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\D0402_xs2NSF.dgn: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3



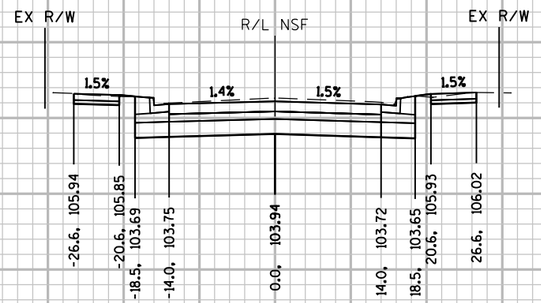


PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST STREET	SHEET	E

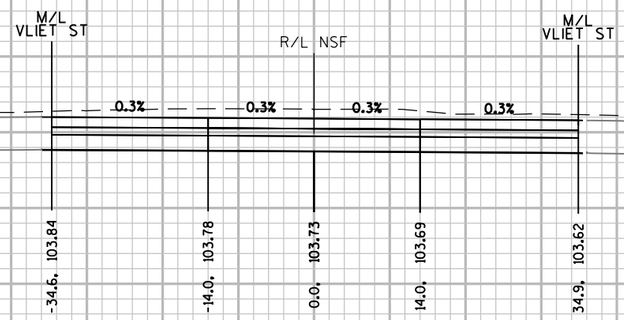
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12\10_12_0390402_xs2NSF.dgn: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

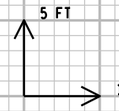
ALL WORK COMPLETED IN STAGE 4



10NSF+40



10NSF+16
STA AHEAD

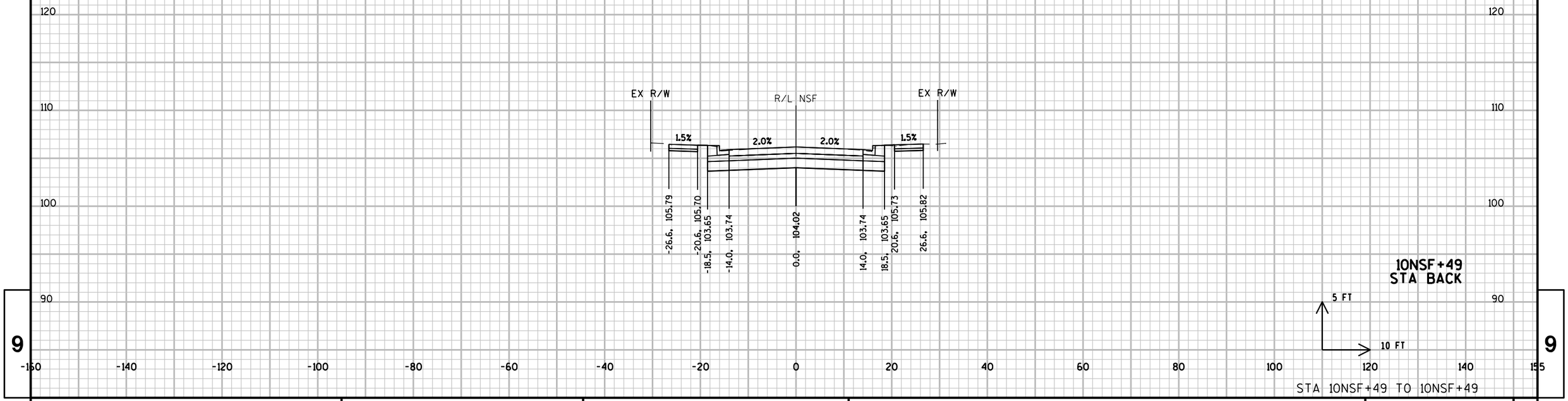


STA 10NSF+16 TO 10NSF+40

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST STREET	SHEET 513	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_xs\D3940202_xs2NSF.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSF+49
STA BACK

5 FT
10 FT

STA 10NSF+49 TO 10NSF+49

9

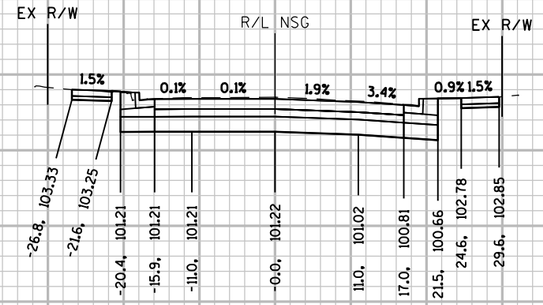
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST STREET	SHEET 514	E

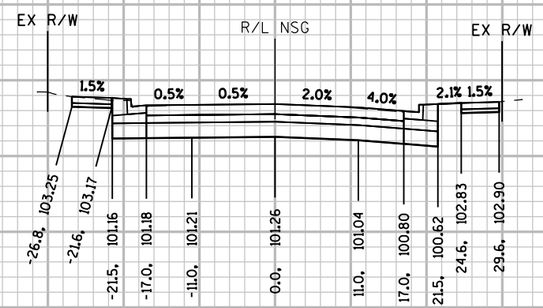
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10_xs\D3940002_xs2NSF.dgn PLOT NAME : PLOT SCALE : 20:1 PLOT DATE : 7/7/2022 10:43:03 AM User: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 3



9NSG+50



9NSG+40
STA AHEAD

5 FT
10 FT

STA 9NSG+40 TO 9NSG+50

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 20TH STREET	SHEET 515	E

WORK COMPLETED IN STAGE 4

M/L VLIET ST

R/L NSG

M/L VLIET ST

0.9% 1.4% 1.4% 1.4% 1.5%

-40.0, 101.51
-17.0, 101.30
-11.0, 101.22
0.0, 101.06
12.0, 100.89
18.7, 100.78

110
100
90
80

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

10NSG+16
STA AHEAD

WORK COMPLETED IN STAGE 3

M/L VLIET ST

R/L NSG

M/L VLIET ST

1.4% 1.4% 1.4% 1.8%

-11.0, 101.30
-0.0, 101.14
11.0, 100.99
17.0, 100.91
36.8, 100.55

110
100
90
80

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

9NSG+84
STA BACK

5 FT
10 FT

STA 9NSG+84 TO 10NSG+16

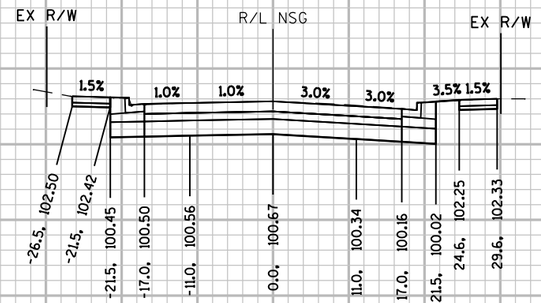
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 20TH STREET	SHEET 516	E

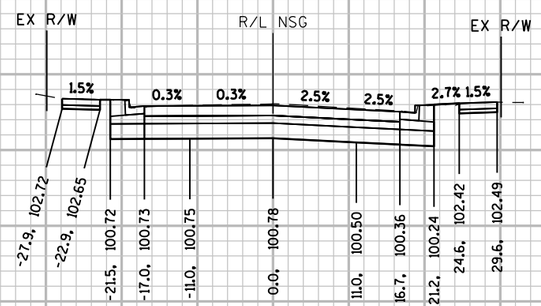
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12\10_12_0940_xs2NSG.dgn PLOT NAME : PLOT SCALE : 20:1 PLOT BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSG+64
STA BACK



10NSG+50

5 FT
10 FT

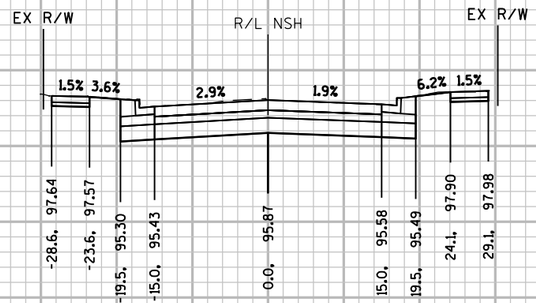
STA 10NSG+50 TO 10NSG+64

9

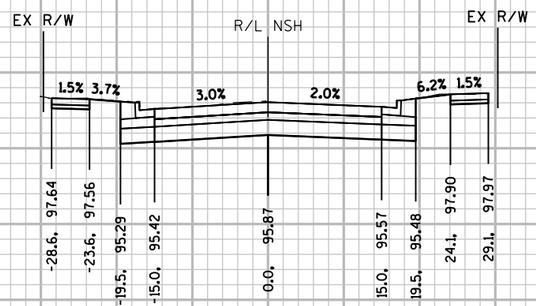
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 20TH STREET	SHEET 517	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12\10_12_2022_xs2NSG.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

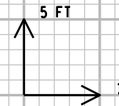
ALL WORK COMPLETED IN STAGE 3



9NSH+50



9NSH+49
STA AHEAD



STA 9NSH+49 TO 9NSH+50

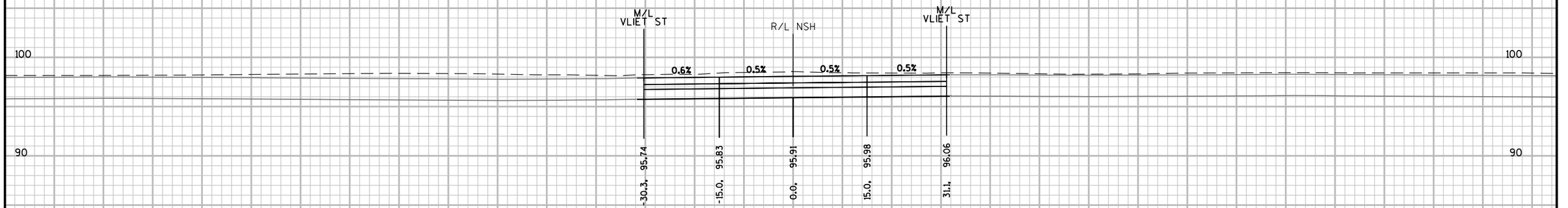
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH STREET	SHEET 518	E

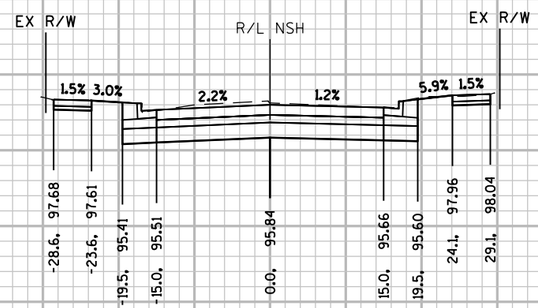
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022-10-13\s0794002_xs2NSH.dgn PLOT DATE : 7/7/2022 10:43:37 AM By: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

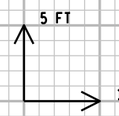
ALL WORK COMPLETED IN STAGE 3



9NSH+84
STA BACK



9NSH+60



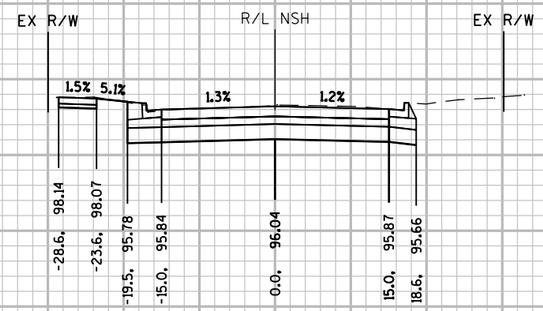
STA 9NSH+60 TO 9NSH+84

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH STREET	SHEET 519	E

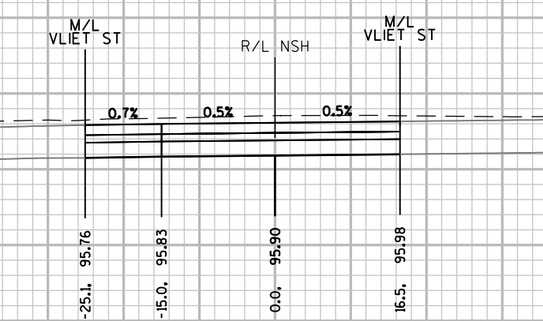
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Products\10 xs\2984002_xs2NSH.dgn PLOT DATE : 7/7/2022 10:43:20 AM by: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSH+40



10NSH+16
STA AHEAD

5 FT
10 FT

STA 10NSH+16 TO 10NSH+40

9

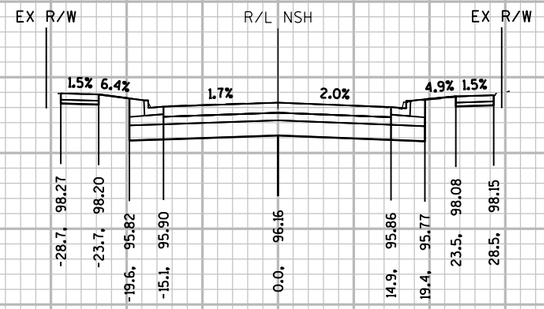
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH STREET	SHEET 520	E

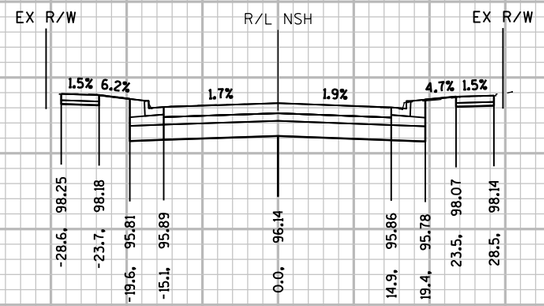
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022-10-13\s2094002_xs2NSH.dgn PLOT NAME : PLOT SCALE : 20:1 PLOT BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 4



10NSH+52
STA BACK



10NSH+50

5 FT
10 FT

STA 10NSH+50 TO 10NSH+52

9

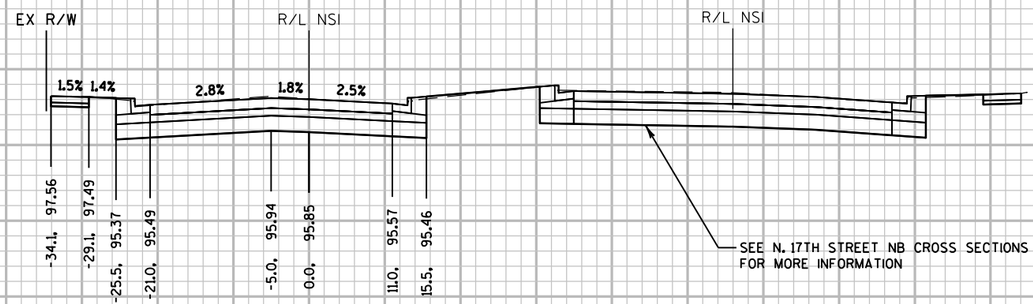
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH STREET	SHEET 521	E

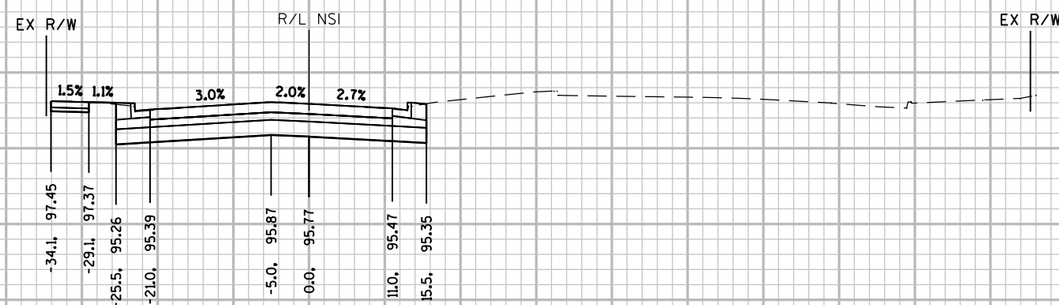
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Products\10_xs\2984002_xs2NSH.dgn PLOT NAME : PLOT SCALE : 20:1 PLOTTED BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



9NSI+30



9NSI+25
STA AHEAD

5 FT
10 FT

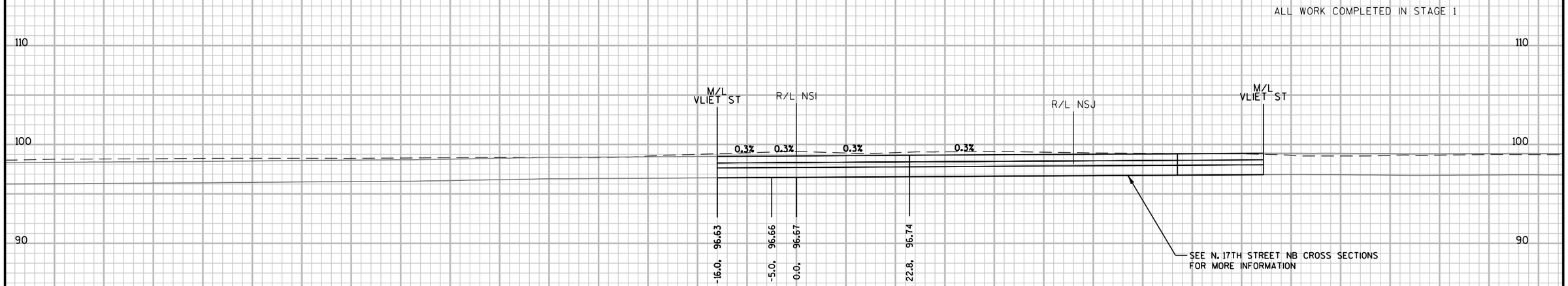
STA 9NSI+25 TO 9NSI+30

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET SB	SHEET	E

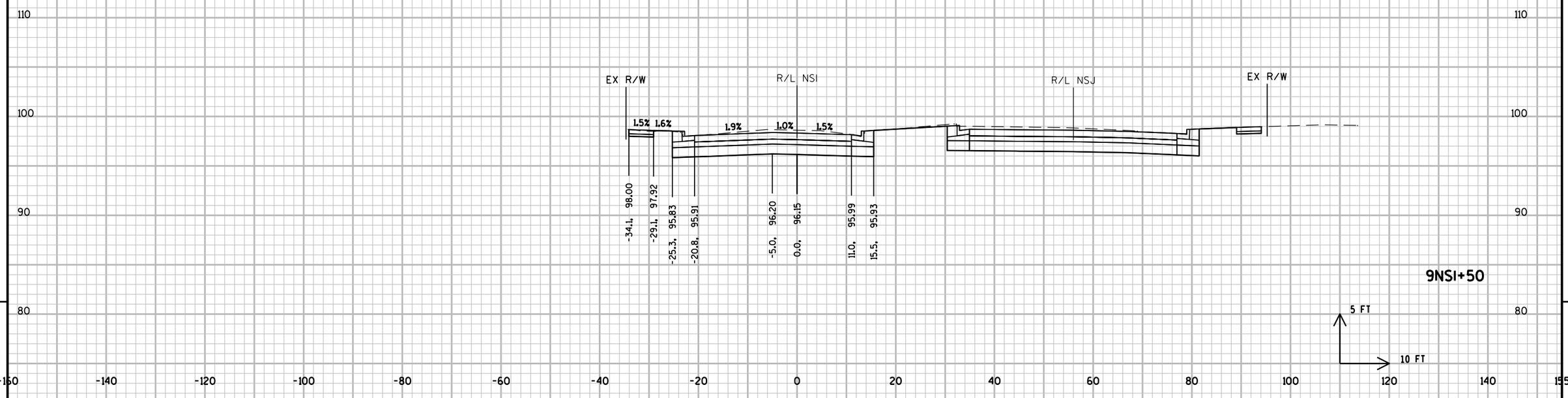
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10x42s2090002_xs2NSI.dgn PLOT DATE : 7/7/2022 10:42:30 AM User: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



9NSI+84
STA BACK



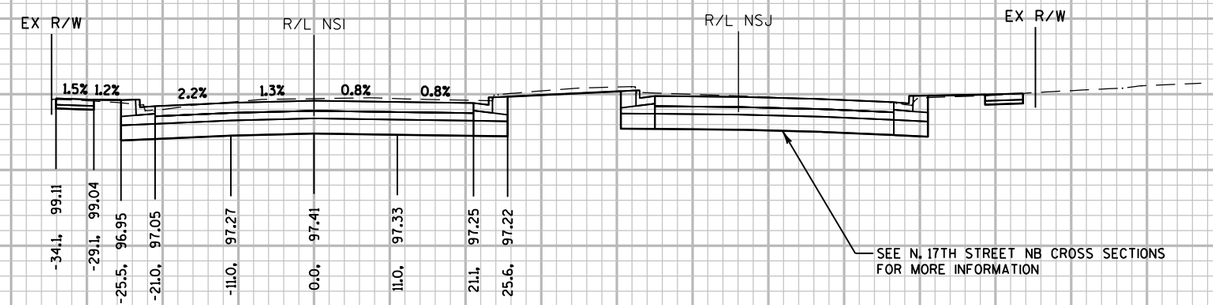
9NSI+50

STA 9NSI+50 TO 9NSI+84

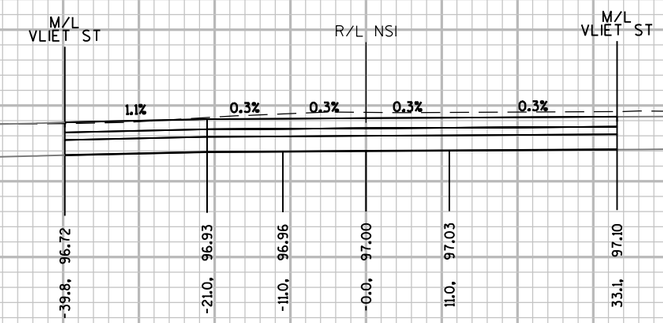
9 9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET SB	SHEET 523	E

ALL WORK COMPLETED IN STAGE 2



10NSI+50



10NSI+16
STA AHEAD

5 FT
10 FT

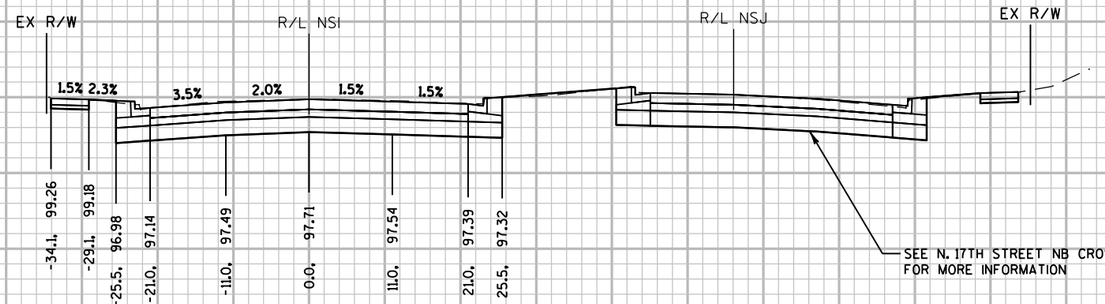
STA 10NSI+16 TO 10NSI+50

9

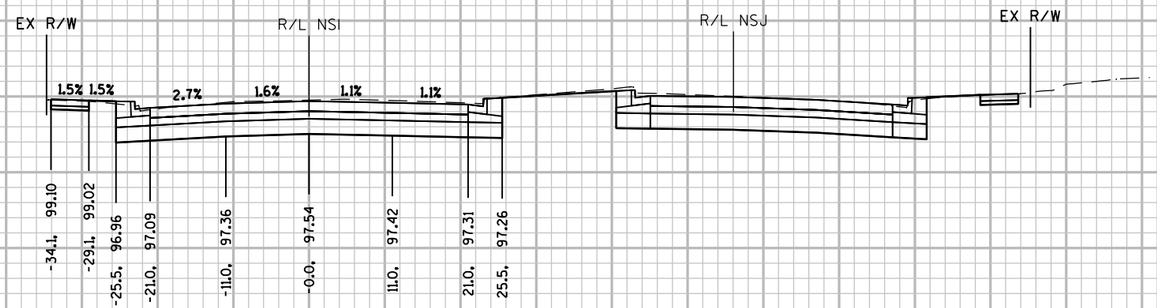
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET SB	SHEET 524	E

ALL WORK COMPLETED IN STAGE 2



10NSI+74
STA BACK



10NSI+60

5 FT
10 FT

STA 10NSI+60 TO 10NSI+74

110 100 90 80

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

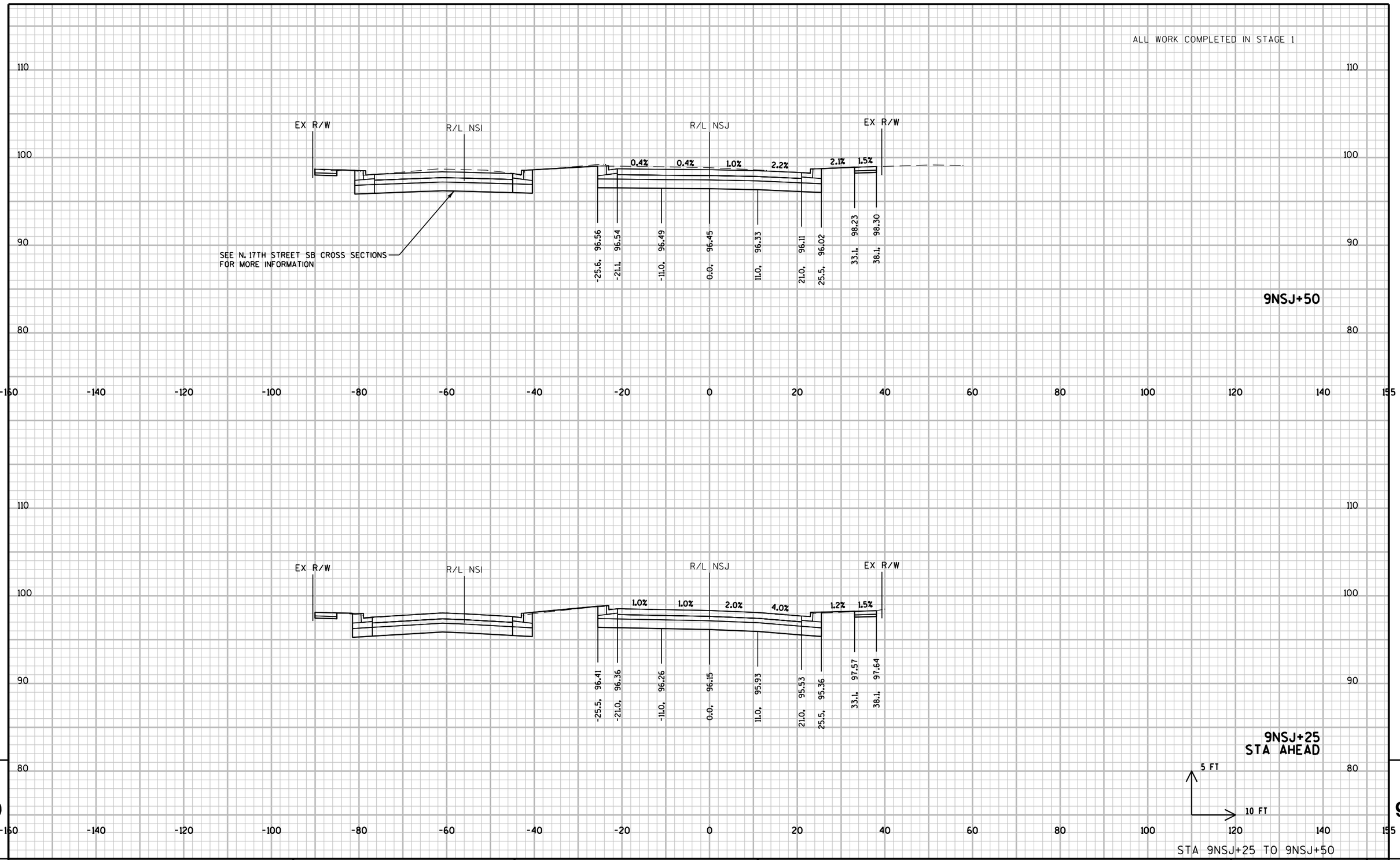
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET SB	SHEET 525	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022-10-13\10-13-2022_xs2NSI.dgn PLOT NAME : PLOT SCALE : 20:1 PLOTTED BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



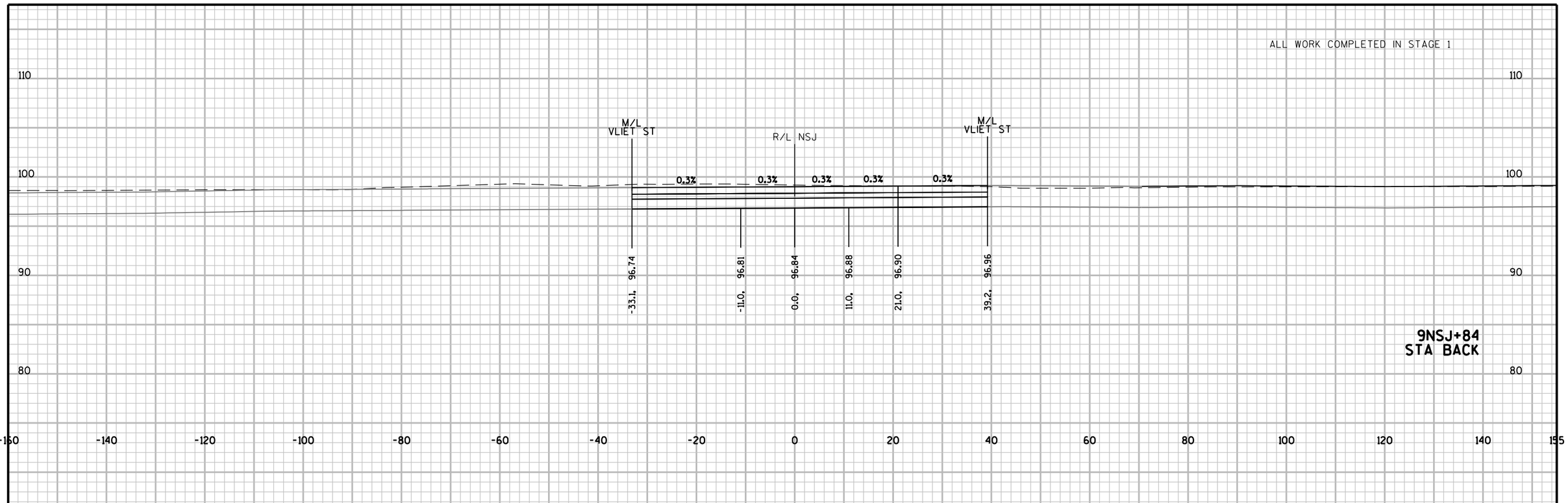
STA 9NSJ+25 TO 9NSJ+50

9

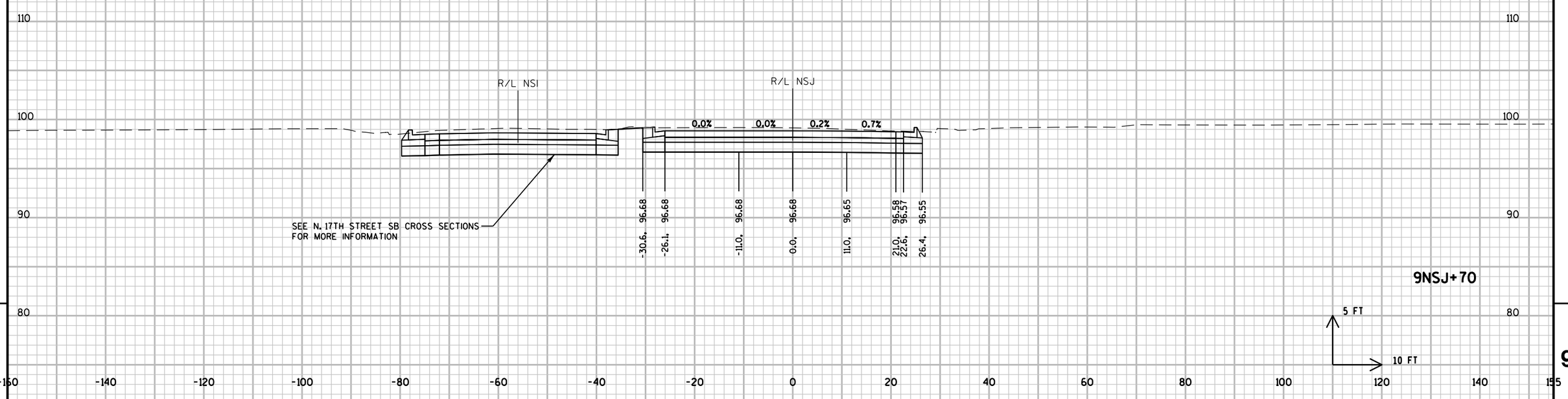
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12\s2694002_xs2NSJ.dgn: ecastellan PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



9NSJ+84
STA BACK



9NSJ+70

5 FT
10 FT

STA 9NSJ+70 TO 9NSJ+84

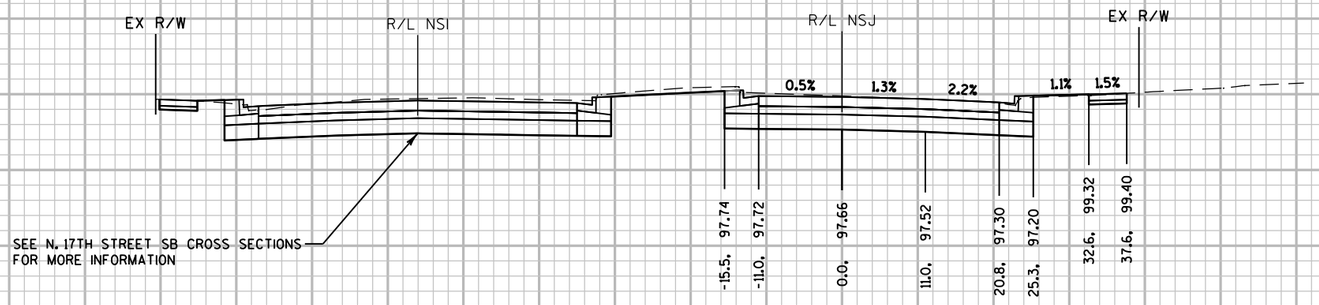
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET NB	SHEET 527	E

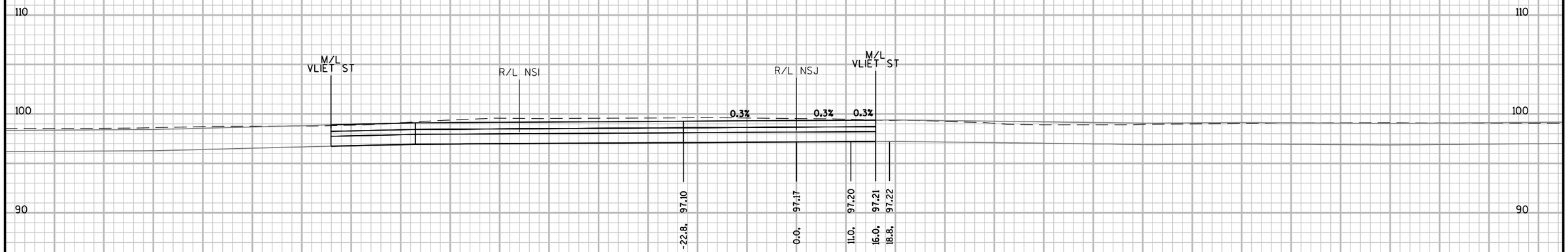
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Exchange\10 xs\2984002_xs2NSJ.dgn PLOT DATE : 7/7/2022 10:43:36 AM PLOT BY: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



10NSJ+50



10NSJ+16
STA AHEAD

5 FT
10 FT

STA 10NSJ+16 TO 10NSJ+50

9

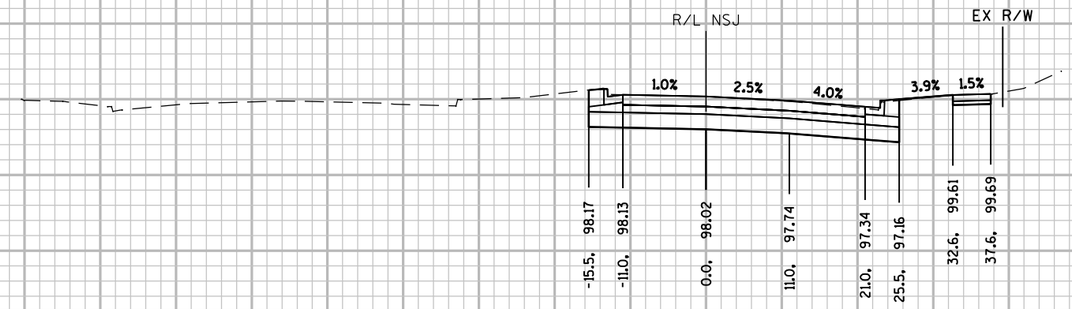
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET NB	SHEET	E

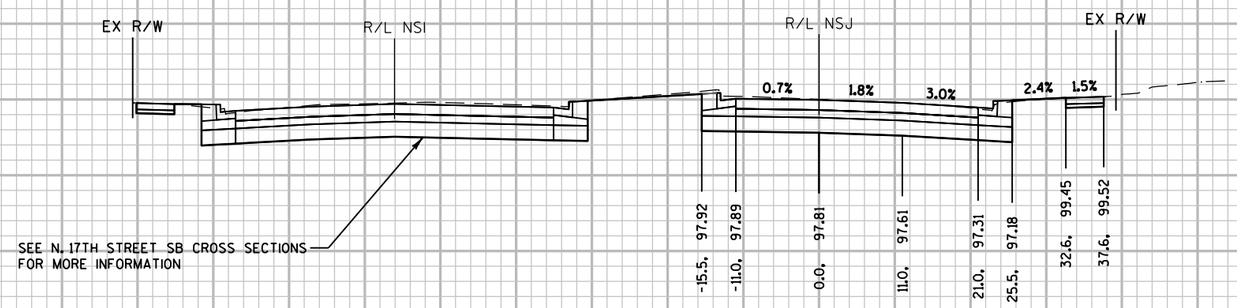
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\20940002_xs2NSJ.dgn PLOT NAME : PLOT SCALE : 20:1 PLOT DATE : 7/7/2022 10:43:37 AM User: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



10NSJ+74
STA BACK



10NSJ+60

5 FT
10 FT

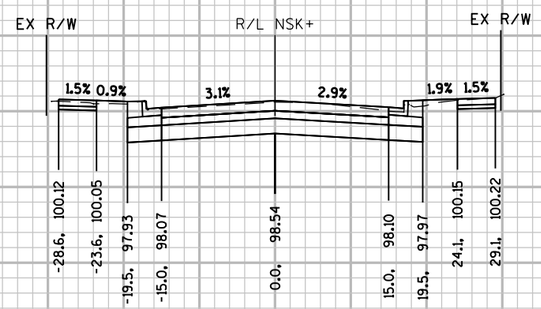
STA 10NSJ+60 TO 10NSJ+74

9 9

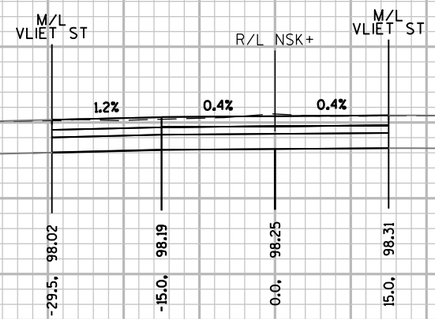
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 17TH STREET NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Files\Roadway\10x42x794402_xs2NSJ.dgn PLOT DATE : 7/7/2022 10:43:37 AM User: ecastellan PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

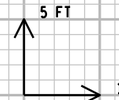
ALL WORK COMPLETED IN STAGE 2



10NSK+40



10NSK+16
STA AHEAD



STA 10NSK+16 TO 10NSK+40

110 100 90 80

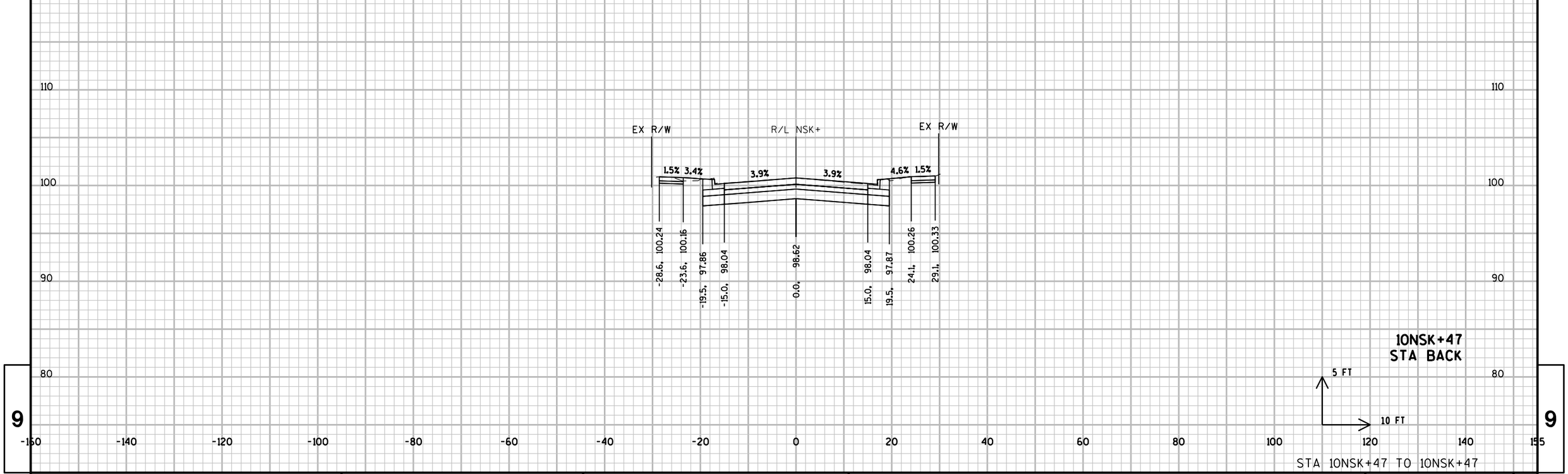
-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 15TH STREET	SHEET 530	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Prod 2022\10_xs2984002_xs2NSK.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



10NSK+47
STA BACK

5 FT
10 FT

STA 10NSK+47 TO 10NSK+47

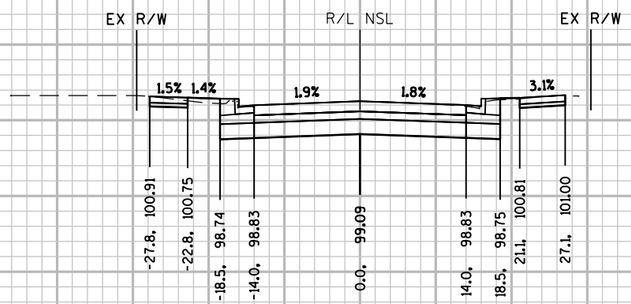
9

9

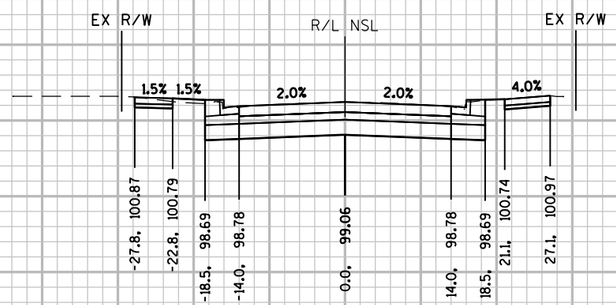
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 15TH STREET	SHEET 531	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway Design\10 Cross Sections\10xs2984002_xs2NSK.dgn
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



9NSL+50



9NSL+47
STA AHEAD

5 FT
10 FT

STA 9NSL+47 TO 9NSL+50

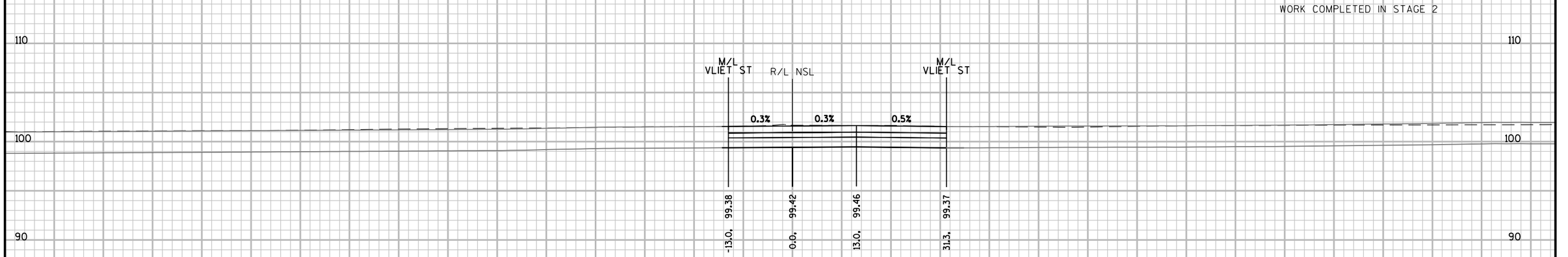
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 14TH STREET	SHEET 532	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Productions\10.xs\109002_xs2NSL.dgn PLOT DATE : 7/7/2022 10:43:31 AM User: ecastellan PLOT NAME : PLOT SCALE : 20:1

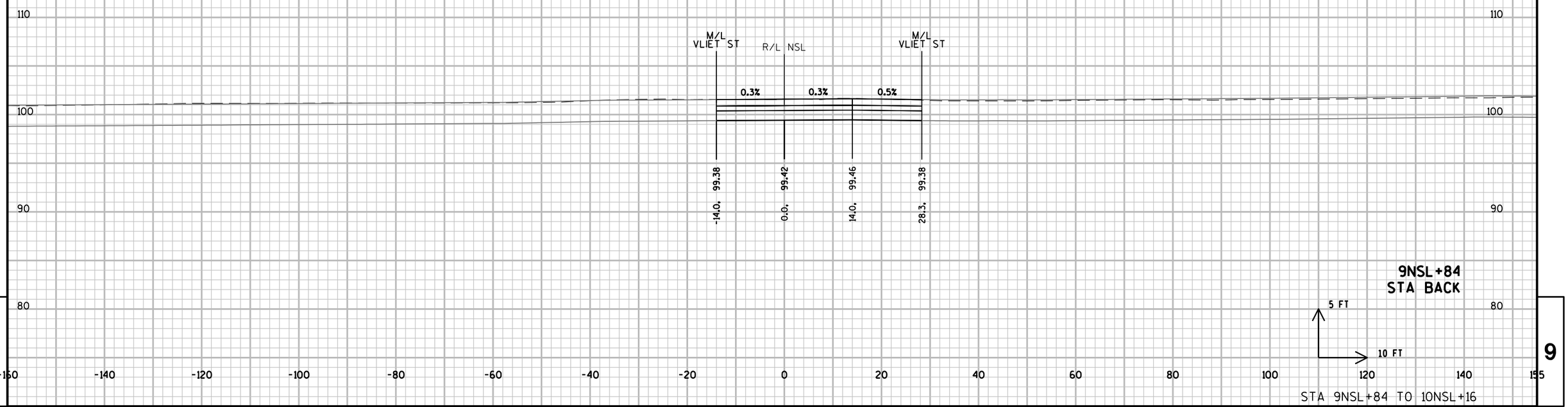
WISDOT/CADDS SHEET 21

WORK COMPLETED IN STAGE 2



10NSL+16
STA AHEAD

WORK COMPLETED IN STAGE 1



9NSL+84
STA BACK

5 FT
10 FT

STA 9NSL+84 TO 10NSL+16

9

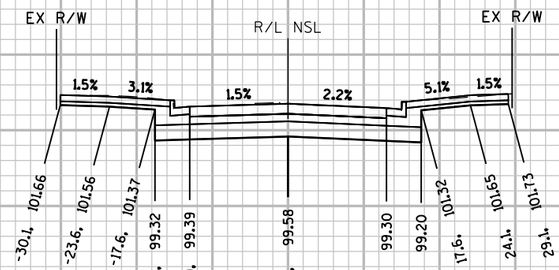
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 14TH STREET	SHEET 533	E

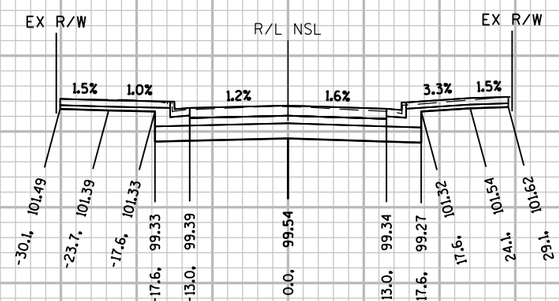
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022\10_Oct\10_Oct_04\2984-00-74_xs2NSL.dgn PLOT NAME : PLOT SCALE : 20:1 PLOT BY: ecastellan

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 2



10NSL+48
STA BACK



10NSL+40

5 FT
10 FT

STA 10NSL+40 TO 10NSL+48

110 100 90 80

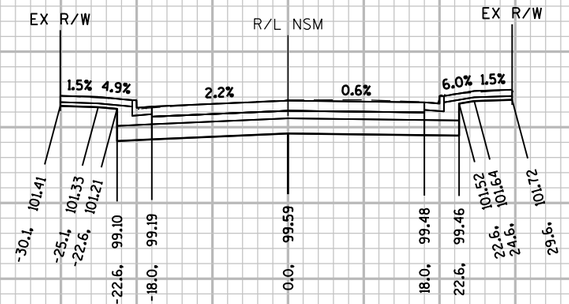
-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

9

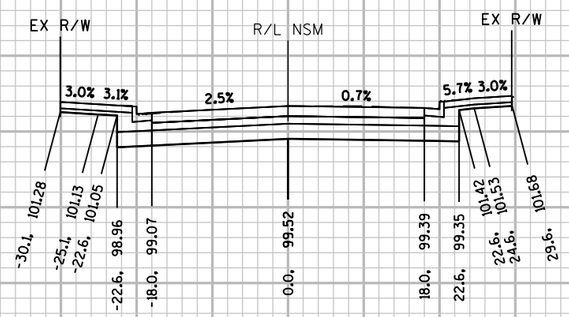
PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 14TH STREET	SHEET 534	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Plan Data Production\10x42x10940002_xs2NSL.dgn PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



9NSM+40



9NSM+32
STA AHEAD

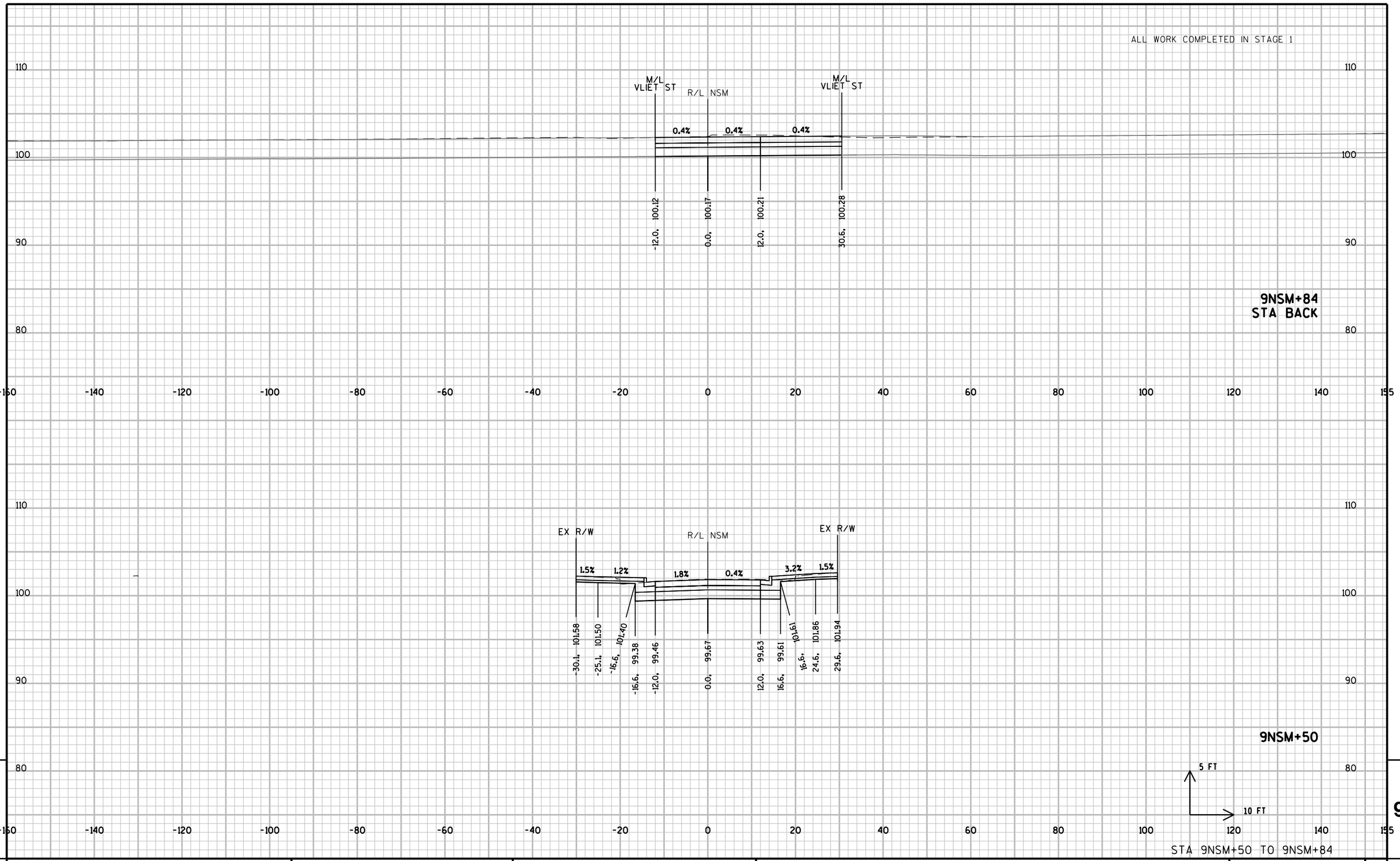
5 FT
10 FT

STA 9NSM+32 TO 9NSM+40

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 13TH STREET	SHEET 535	E

ALL WORK COMPLETED IN STAGE 1



9NSM+84
STA BACK

9NSM+50

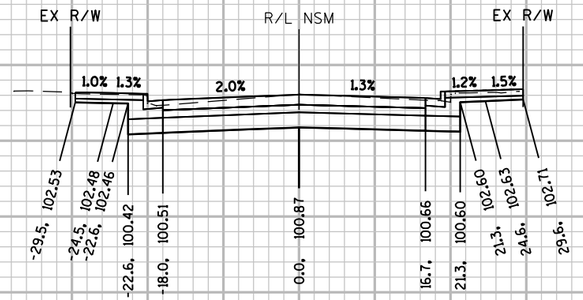
5 FT
10 FT

STA 9NSM+50 TO 9NSM+84

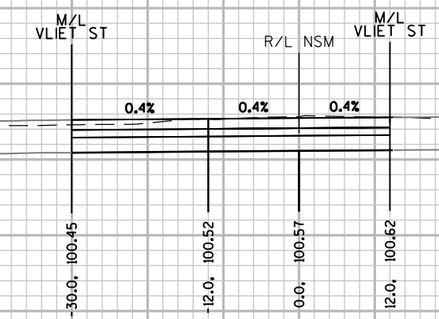
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 13TH STREET	SHEET 536	E

ALL WORK COMPLETED IN STAGE 2



10NSM+50



10NSM+16
STA AHEAD

5 FT
10 FT

STA 10NSM+16 TO 10NSM+50

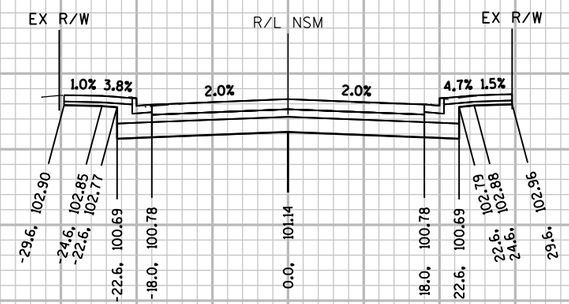
110 100 90 80

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

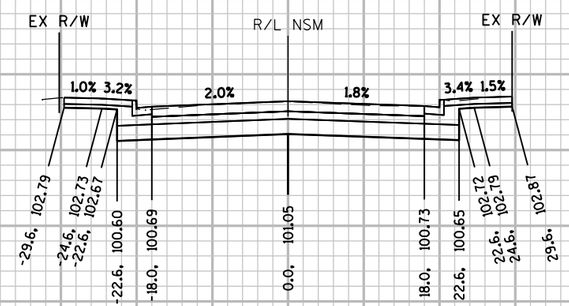
9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 13TH STREET	SHEET 537	E

ALL WORK COMPLETED IN STAGE 2



10NSM+65
STA BACK



10NSM+60

5 FT
10 FT

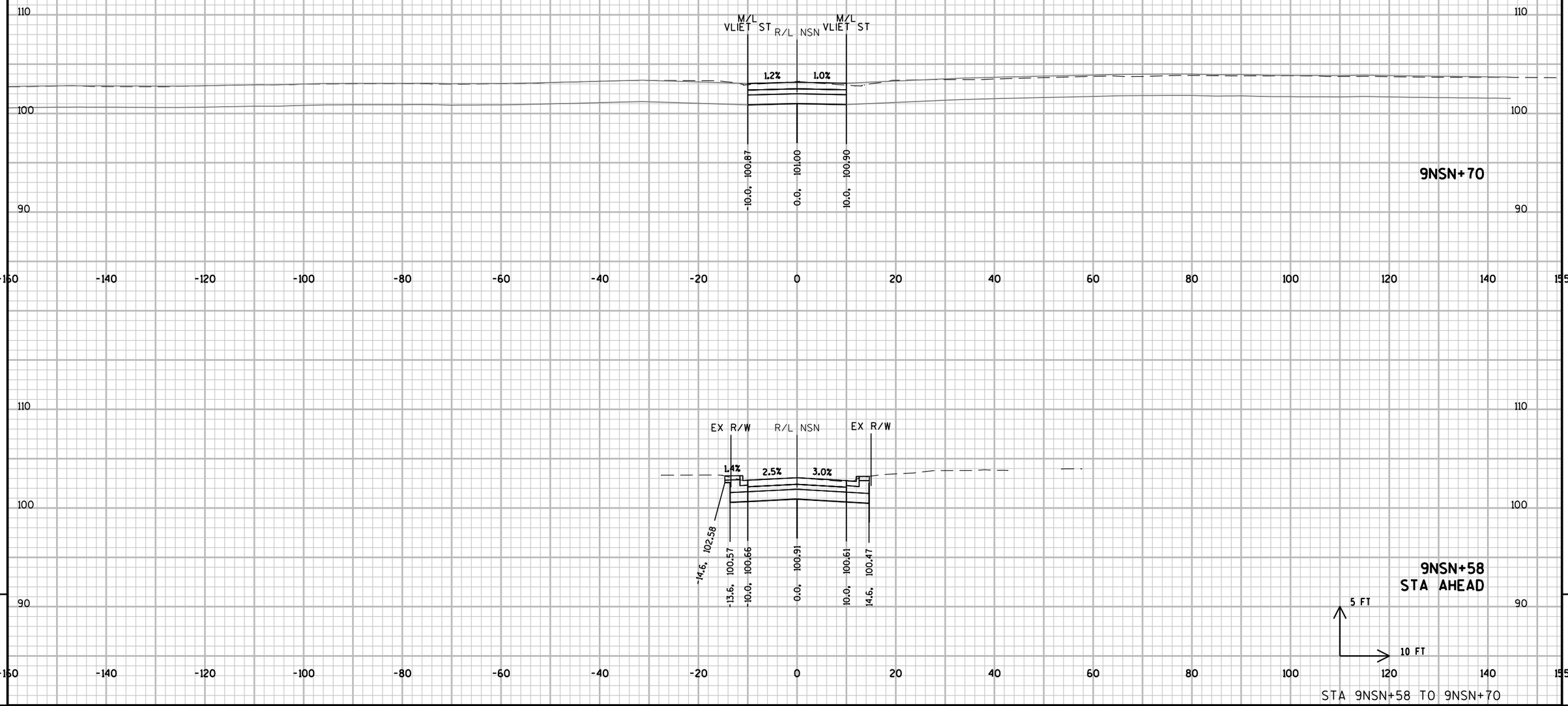
STA 10NSM+60 TO 10NSM+65

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 13TH STREET	SHEET 538	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\Plan Set Production\10x43x090402_xs2NSM.dgn PLOT DATE : 7/7/2022 PLOT BY: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK COMPLETED IN STAGE 1



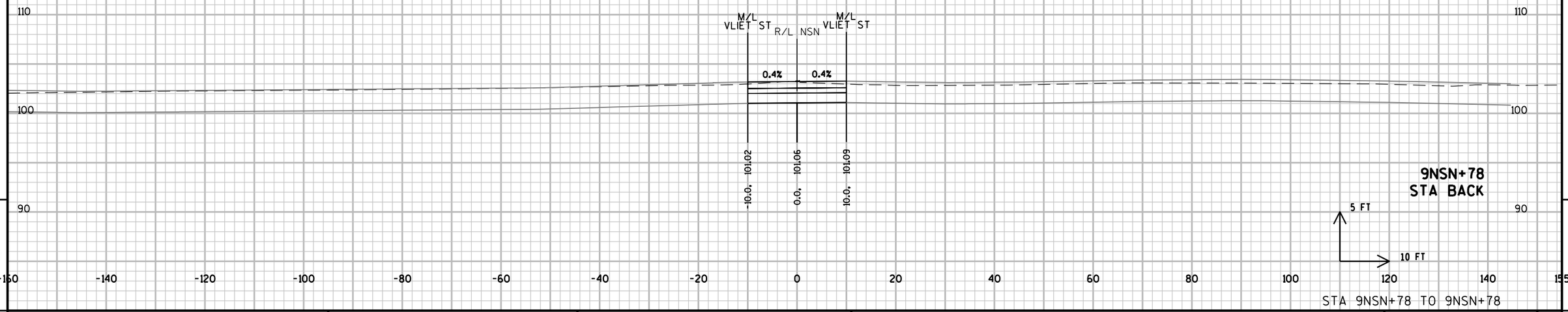
STA 9NSN+58 TO 9NSN+70

9

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 12TH LANE	SHEET 539	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Prod\2022_10_12_63342002_xs2NSN.dgn: ecastellan PLOT NAME : PLOT SCALE : 20:1

ALL WORK COMPLETED IN STAGE 1



STA 9NSN+78 TO 9NSN+78

PROJECT NO: 2984-00-74	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 12TH LANE	SHEET 540	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Milwaukee Projects\63342 W.Vliet St. Reconstruction Project\Project Design\Roadway\E Proposed\10.42s_S09002_xs2NSN.dgn PLOT DATE : 7/7/2022 10:43:36 AM User: ecastellan PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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