MAD

Mar 08, 2022

PROJECT ID: 5490-00-62/63

WITH:

COUNTY: DANE

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 = 346

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5490-00-62	WISC 2022230	1
5490-00-63	WISC 2022231	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C MADISON, STH 30
FAIR OAKS AVE B-13-206

STH 30

DANE COUNTY

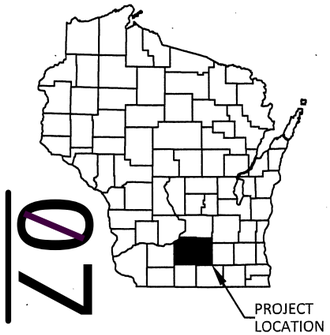
STATE PROJECT NUMBER
5490-00-62

C MADISON, STH 30
FAIR OAKS AVENUE TO IH 39 RAMP

STH 30

DANE COUNTY

STATE PROJECT NUMBER
5490-00-63



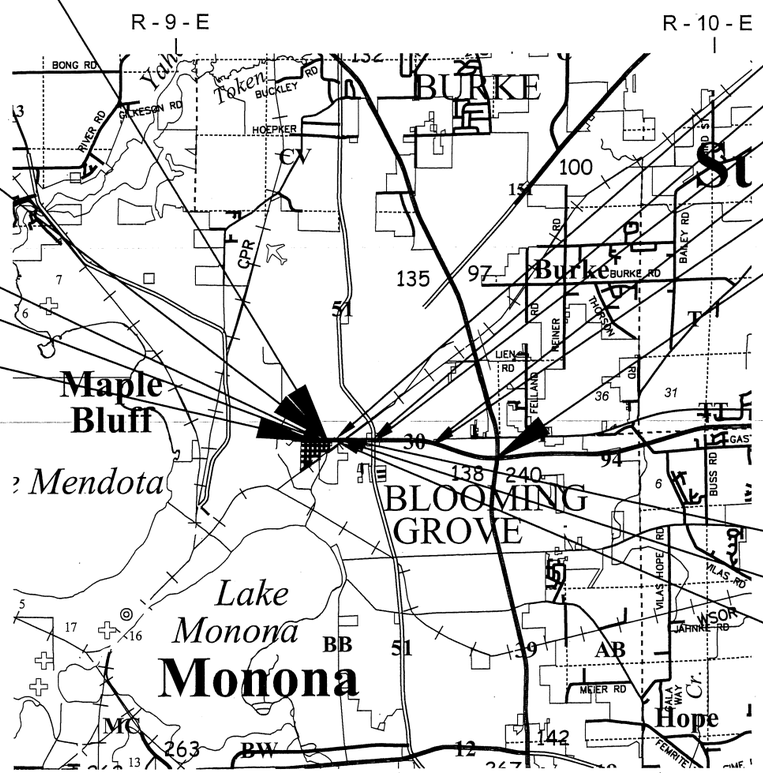
BEGIN PROJECT 5490-00-63
STA 61+06.00 "30"
X=835888.127
Y=494465.220

END PROJECT 5490-00-62
STA 61+06.00 "30"
X=835888.127
Y=494465.220

STRUCTURE
B-13-206

STRUCTURE
B-13-211

BEGIN PROJECT 5490-00-62
STA 54+00.00 "30"
X=835182.144
Y=494474.713



STRUCTURE
R-13-36

STRUCTURE
B-13-322

STRUCTURE
B-13-323

STRUCTURE
B-13-135

STRUCTURE
B-13-203

END PROJECT 5490-00-63
STA 179+93 "30EB"

STRUCTURE
B-13-442

STRUCTURE
B-13-440

STRUCTURE
R-13-35

DESIGN DESIGNATION STH 30 EB/WB

A.A.D.T.	2018	=	38,000-51,000
A.A.D.T.	2037	=	45,150-57,900
D.H.V.		=	10.0%
D.D.		=	50/50
T.		=	1.2%-7.6%
DESIGN SPEED		=	60-75MPH
ESALS		=	7,700,000

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT, (Box or Pipe)
- COMBUSTIBLE FLUIDS (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)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 2.203 MI.
TOTAL NET LENGTH OF CENTERLINE 5490-00-62 = 0.107 MI.
TOTAL NET LENGTH OF CENTERLINE 5490-00-63 = 2.096 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

ORIGINAL PLANS PREPARED BY

HNTB
10 W MIFFLIN STREET
MADISON, WI 53703
(608) 259-0045

WISCONSIN
NICHOLAS E. BENNETT
E-43352-6
MADISON, WI
PROFESSIONAL ENGINEER

10/26/2021 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OES
Designer	HNTB
Project Manager	DAVID SCHMIDT
Regional Examiner	SW REGION
Regional Supervisor	JENNY KOBRYN

APPROVED FOR THE DEPARTMENT
DATE: 10/27/21 (Signature)

E

GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE OR AS OTHERWISE DIRECTED BY THE FIELD ENGINEER. DISTURBED AREAS ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND EMATTED AS DIRECTED BY THE FIELD ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL OR EQUIPMENT WITHIN WETLANDS OR PROTECTED AREAS IS NOT ALLOWED. WETLAND BOUNDARIES ARE SHOWN ON PLAN SHEETS.

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT AND CONCRETE PAVEMENT REPAIR AND REPLACEMENT JOINT LOCATIONS TO BE VERIFIED BY THE ENGINEER IN THE FIELD. CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT ITEM INTENDED FOR JOINTS WITH 3"+ OF CONCRETE DEGRADATION.

CONCRETE BARRIER REPLACEMENT LIMITS TO BE VERIFIED BY THE ENGINEER IN THE FIELD.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES.

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 COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

SAWING CONCRETE WILL BE MEASUREED AND PAID FOR ONLY WHEN REPAIRS ARE ADJACENT ALONG THE CENTERLINE OF THE LANES.

OVER-SAWING INTO PAVEMENT THAT IS TO REMAIN TO FACILITATE REMOVAL OF REPAIR AREAS SHALL BE SEALED WITH AN APPROVED EPOXY. THE OVER-SAWING AND EPOXY ARE INCIDENTAL TO BID ITEMS 416.1710, 416.1715, 416.1720 & 416.1725.

WITHIN CONCRETE PAVEMENT REPLACEMENT SECTIONS, THE NEW CONTRACTION JOINTS MAY NOT MATCH ABUTTING EXISTING JOINTS BECAUSE OF CHANGES TO STANDARDS AND PRIOR REPAIRS. ADJUST NEW JOINTS TO MATCH EXISTING JOINTS WHERE PRACTICAL. DO NOT EXCEED THE MAXIMUM CONTRACTION JOINT SPACING OF 15'.

CONCRETE FINISHING SHALL MATCH ADJACENT PAVEMENT.

DAMAGE TO EXISTING PAVEMENT MARKINGS TO REMIAN ARE TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ALIGNMENT IDENTIFIERS	
30	STH 30
EB	STH 30 EB
WB	STH 30 WB
A	STOUGHTON RD EB EXIT RAMP
C	STOUGHTON RD EB ENTRANCE RAMP
D	STOUGHTON RD WB EXIT RAMP
E	STOUGHTON RD WB ENTRANCE RAMP
F	FAIR OAKS AVE WB EXIT RAMP
M	THOMPSON DR EB EXIT RAMP
N	THOMPSON DR WB ENTRANCE RAMP
EP	STH 30 WB LT EOP
P	STH 30 WB ENTRANCE RAMP FROM IH 94

ASPHALT SPECIFICATIONS

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 MT58-28 H	4.0"	4.0" LAYER
4 MT58-28 S	4.0"	2.0" LOWER LAYER
		2.0" UPPER LAYER
4 MT58-28 S	2.0"	2.0" LAYER

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKINGS
TRAFFIC CONTROL
DETOUR ROUTES
ALIGNMENT DETAILS

ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EAT	ENERGY ABSORBING TERMINAL
EB	EAST BOUND
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COARSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WB	WEST BOUND

2

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5490-00-62/63 UTILITY CONTACTS

Koch's Telecom Service/ American Family Insurance - Communication Line
Bruce Robbins
301 Parkwood Lane
Madison, WI 53714
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Brobbins@tkns.net

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Kenneth Colwell
AT&T Legacy - Communication Line
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Woodstock, IL 60098
(312) 734-2223
kc1298@att.com

AT&T Wisconsin- Communication Line
Carol Anason
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Madison, WI 53701
(608) 252-2385
ca2624@att.com

ATC Management, Inc. - Electricity Transmission and Fiber Optic
Anthony Marciniak
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P.O. Box 47
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(262) 506-6814
amarciniak@atcllc.com

Bear Communications, LLC - (MCI/Verizon) Communication Line
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Monona, WI 53731
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Centurylink- Communication Line
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North Prairie, WI 53153
(262) 392-5200
Kevin.Zickert@centurylink.com

Charter Communications- Communication Line
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Lukas.LaCrosse@charter.com

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erich@madsewer.org

Madison Water Utility - Water
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Madison, WI 53713-1431
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awiederhoeft@madisonwater.org

PaeTec Communications, LLC- Communication Line
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DAVID2SCHMIDT@DOT.WI.GOV

DNR AREA LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
ERIC.HEGGELUND@WISCONSIN.GOV

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

2

2

N

BEGIN PROJECT 5490-00-62
STA 54+00 "30" STH 30

B-13-206
B-13-211

BEGIN CONSTRUCTION
STA 10+00 "F"

RAMP "F"
R-13-36

END CONSTRUCTION
STA 13+38 "F"

BEGIN CONSTRUCTION
STA 18+67 "E"

END CONSTRUCTION
STA 29+45 "E"

BEGIN CONSTRUCTION
STA 9+39 "D"

END CONSTRUCTION
STA 22+87 "D"

BEGIN CONSTRUCTION
STA 121+16 "N"

END CONSTRUCTION
STA 133+01 "N"

BEGIN CONSTRUCTION
STA 137+87 "P"

END CONSTRUCTION
STA 169+58 "P"

LEXINGTON AVE.

USH 51

COMMERCIAL AVE.

I-39/90/94

STH 30

WISCONSIN AND SOUTHERN RAILROAD

FAIR OAKS AVE

THOMPSON DRIVE

RAMP "A"
RAMP "C"
RAMP "D"
RAMP "E"
RAMP "M"
RAMP "N"
RAMP "P"

B-13-442
B-13-440

B-13-322
B-13-323

B-13-135
B-13-203

BEGIN CONSTRUCTION
STA 11+14 "A"

EN D CONSTRUCTION
STA 18+67 "E"

END CONSTRUCTION
STA 24+93 "C"

BEGIN CONSTRUCTION
STA 12+92 "C"

BEGIN PROJECT 5490-00-63
STA 61+06 "30" STH 30

END PROJECT 5490-00-62
STA 61+06 "30" STH 30

BEGIN CONSTRUCTION
STA 12+71 "M"

END CONSTRUCTION
STA 22+25 "M"

END CONSTRUCTION
STA 177+15 "30EB"

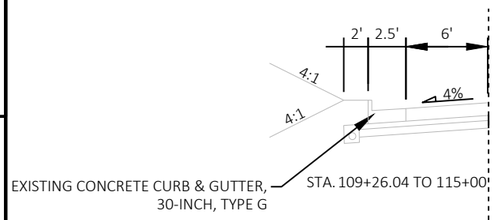
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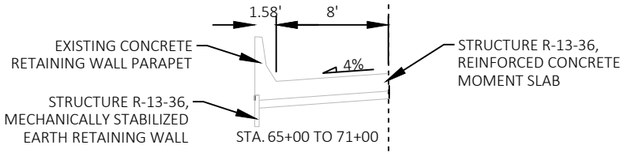
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179+93 "30EB" STH 30

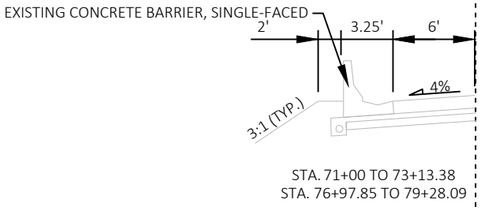
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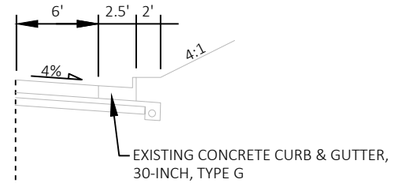
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LAYOUT NAME - PROJ. OVERVIEW

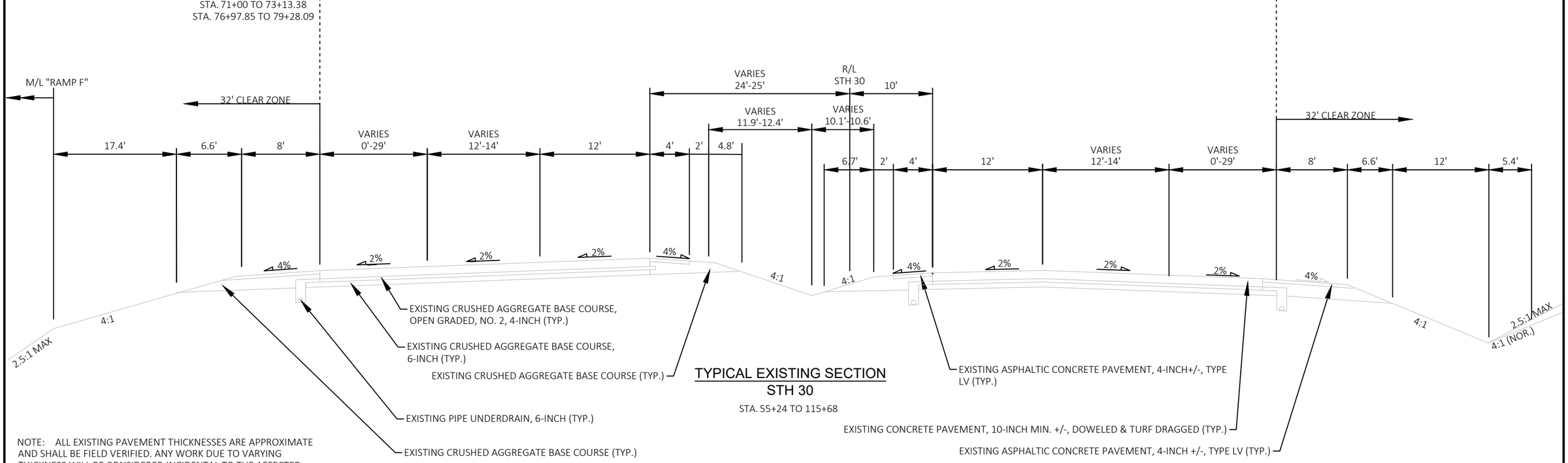
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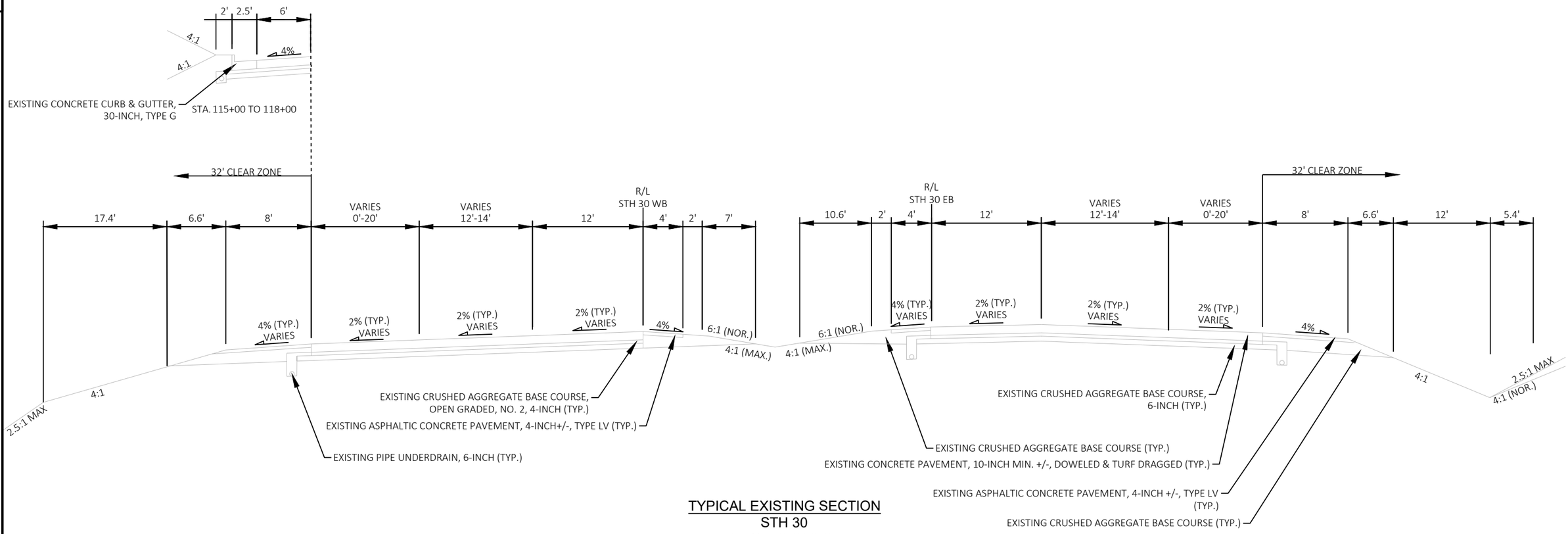


TYPICAL EXISTING SECTION
STH 30

STA. 55+24 TO 115+68

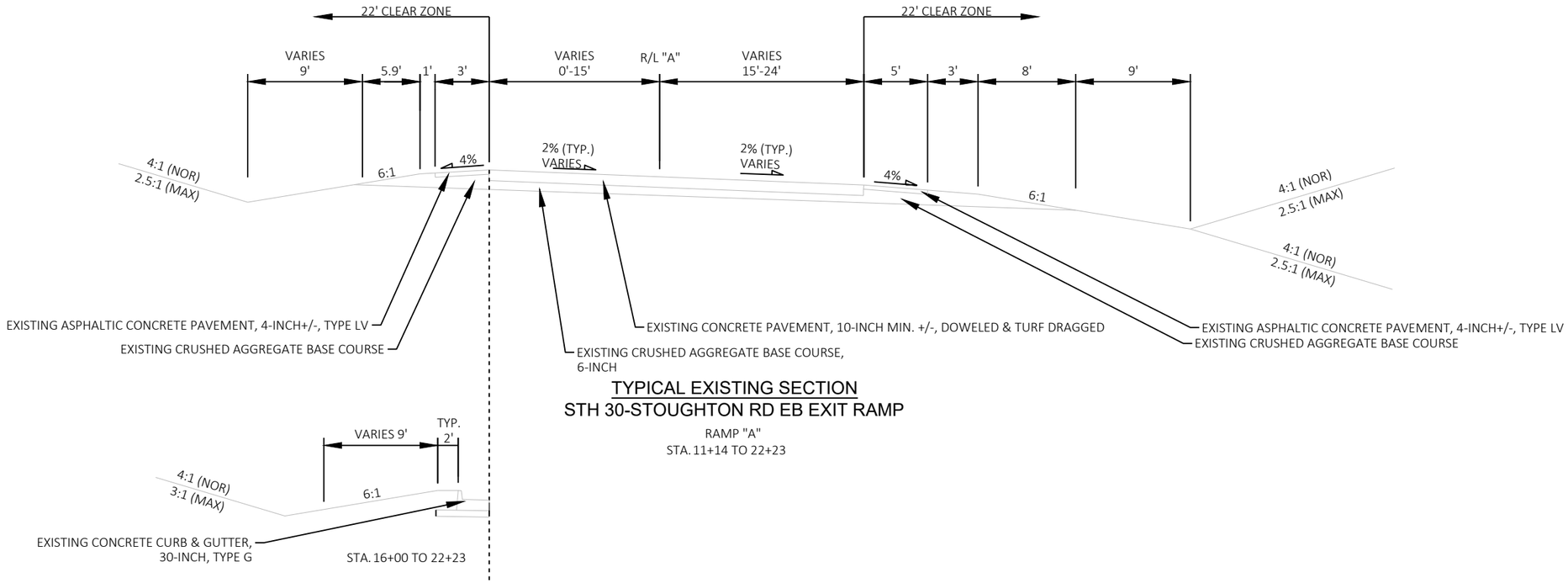
NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

2



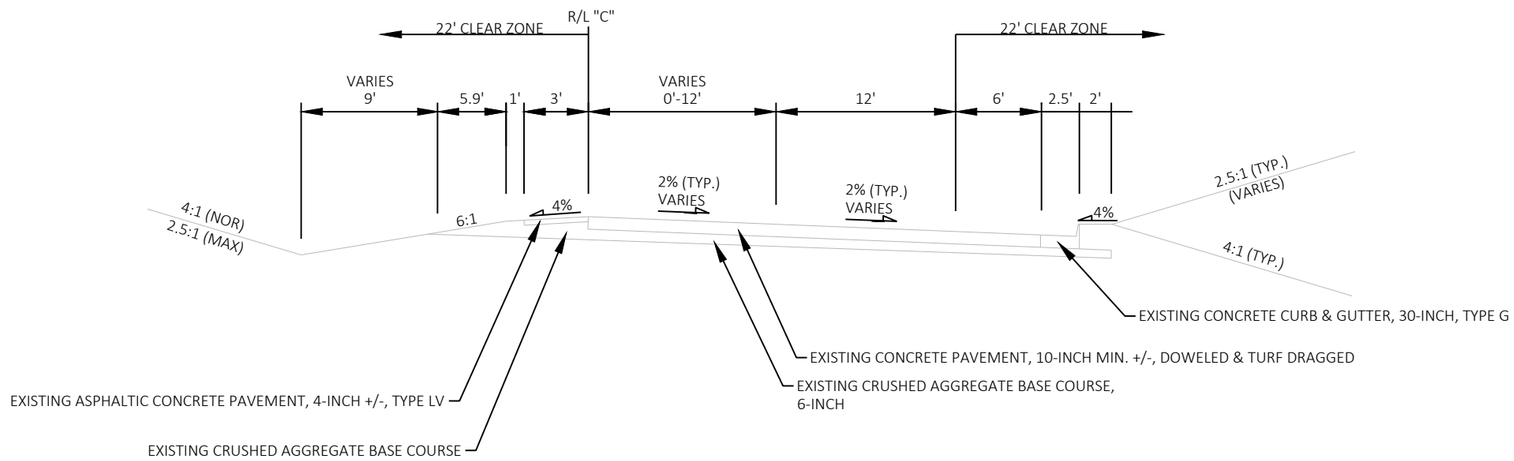
TYPICAL EXISTING SECTION
STH 30
STA. 115+68 TO 136+00

NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.



TYPICAL EXISTING SECTION
STH 30-STOUGHTON RD EB EXIT RAMP

RAMP "A"
STA. 11+14 TO 22+23

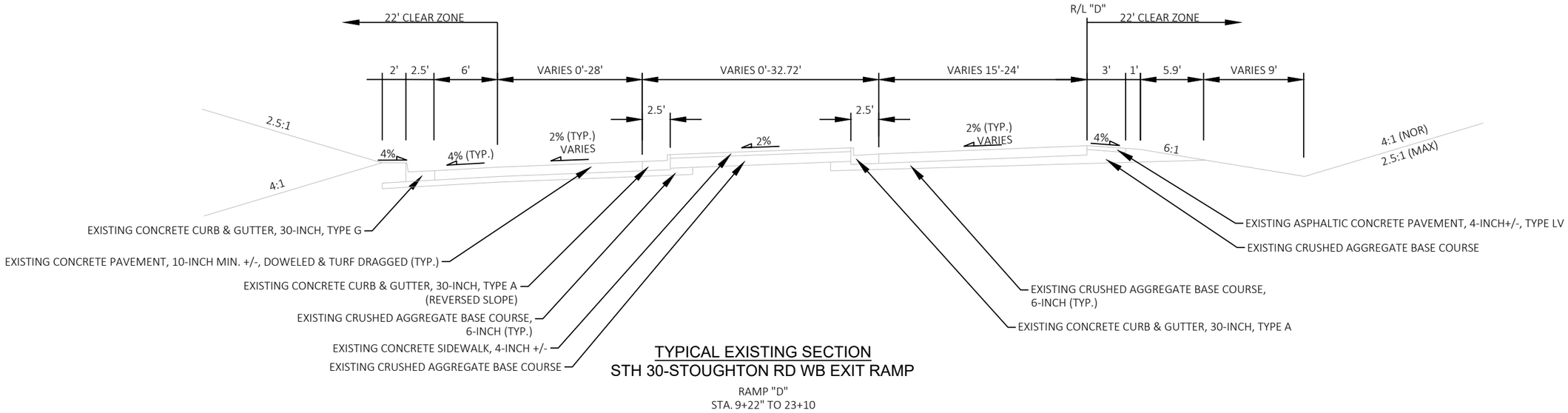


TYPICAL EXISTING SECTION
STH 30-STOUGHTON RD EB ENTRANCE RAMP

RAMP "C"
STA. 10+87 TO 25+07

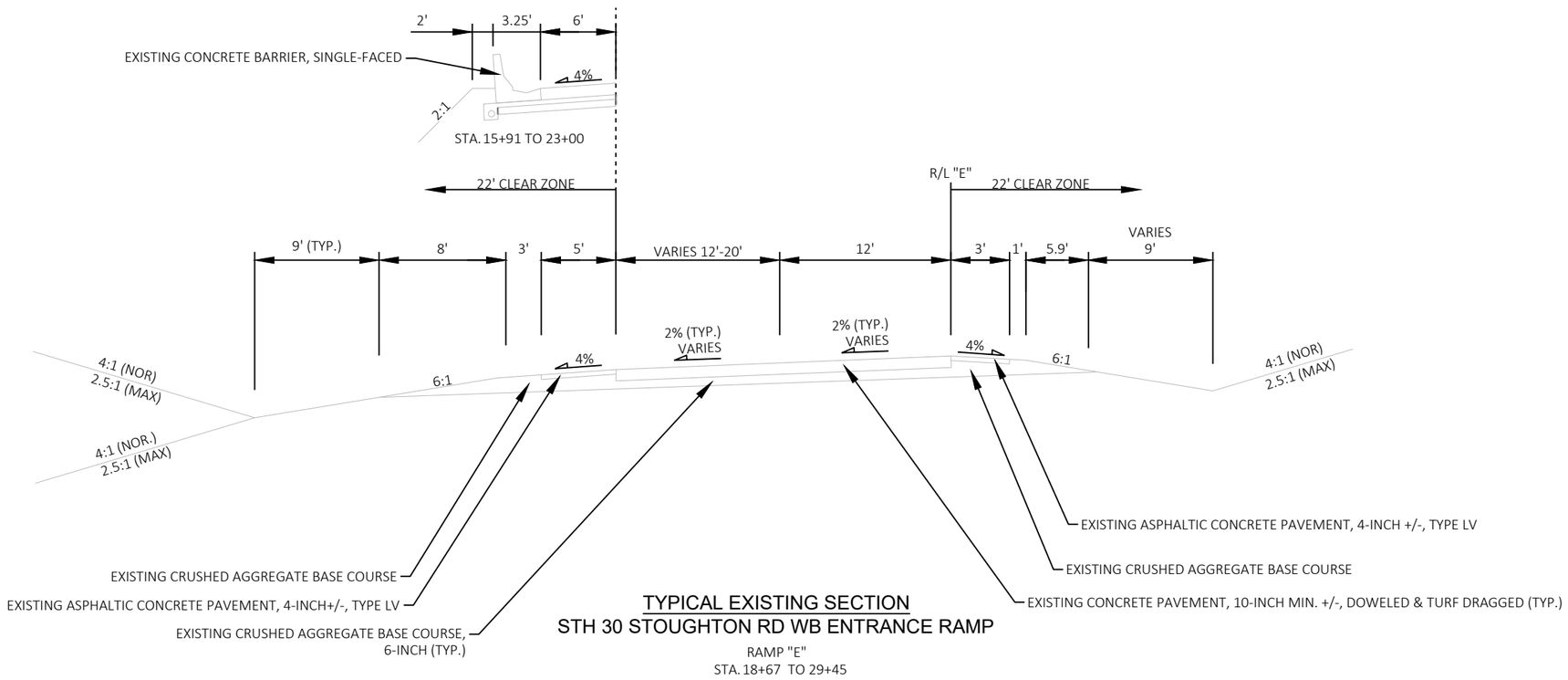
NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TYPICAL EXISTING SECTIONS	SHEET 7	E



TYPICAL EXISTING SECTION
STH 30-STOUGHTON RD WB EXIT RAMP

RAMP "D"
STA. 9+22" TO 23+10

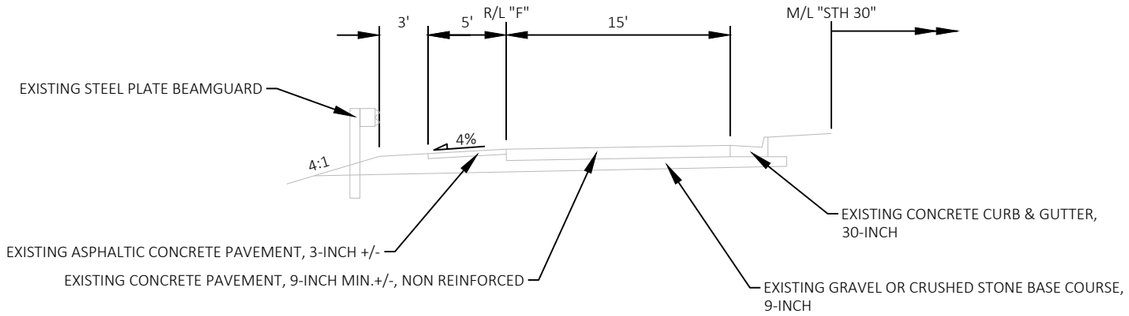


TYPICAL EXISTING SECTION
STH 30 STOUGHTON RD WB ENTRANCE RAMP

RAMP "E"
STA. 18+67 TO 29+45

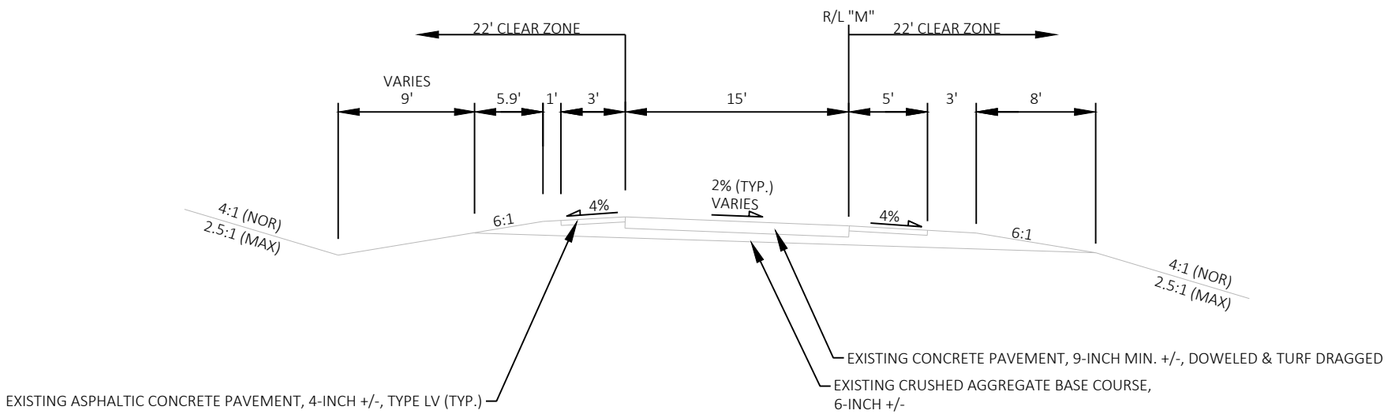
NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

2



TYPICAL EXISTING SECTION
STH 30-FAIR OAKS AVE WB EXIT RAMP

RAMP "F"
STA. 8+50 TO 13+38

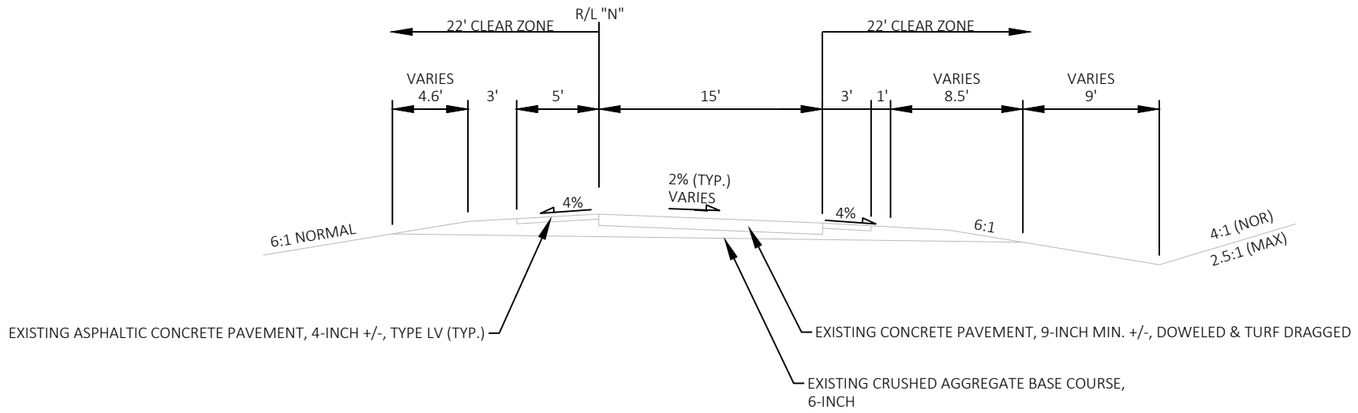


TYPICAL EXISTING SECTION
STH 30-THOMPSON DR EB EXIT RAMP

RAMP "M"
STA. 12+61 TO 26+97

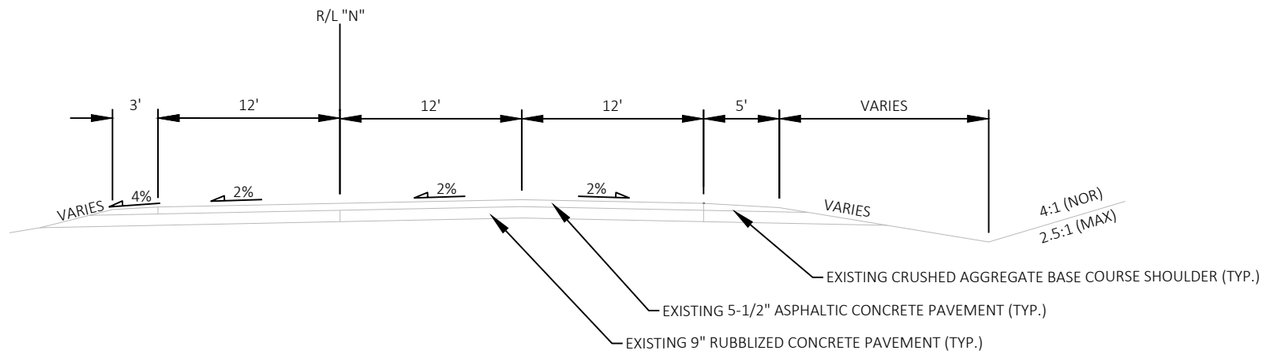
NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

2



TYPICAL EXISTING SECTION
STH 30-THOMPSON DR WB ENTRANCE RAMP

RAMP "N"
STA. 121+15 TO 131+52.13



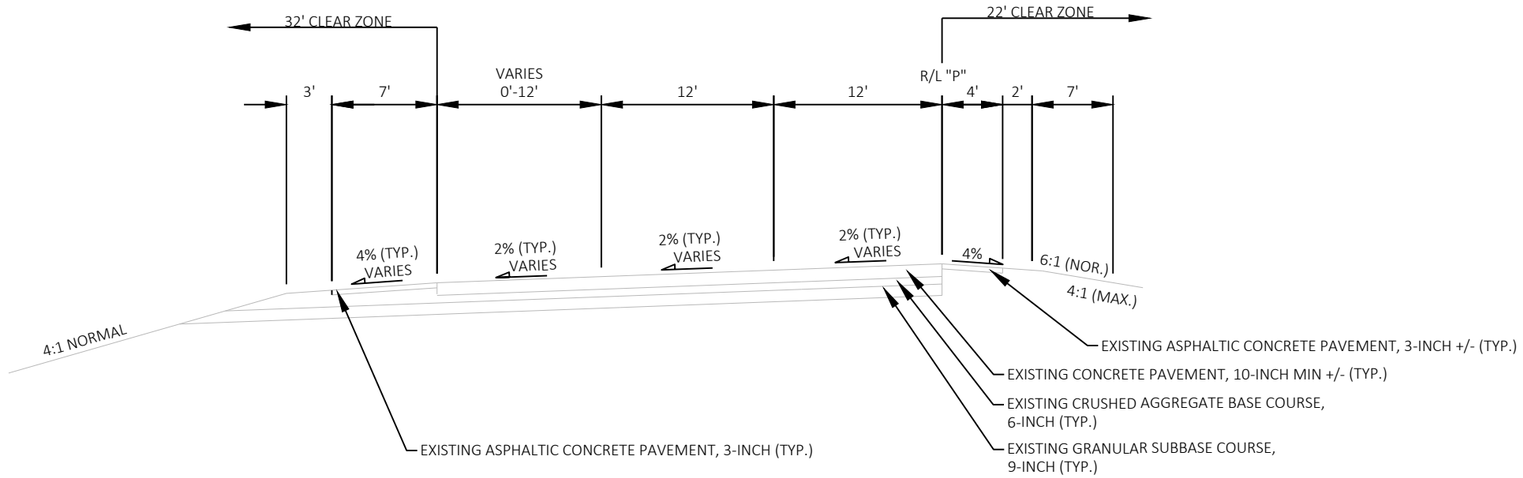
TYPICAL EXISTING SECTION
STH 30-THOMPSON DR WB ENTRANCE RAMP

RAMP "N"
STA. 131+52.13 TO 133+00.87

NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TYPICAL EXISTING SECTIONS	SHEET 10	E

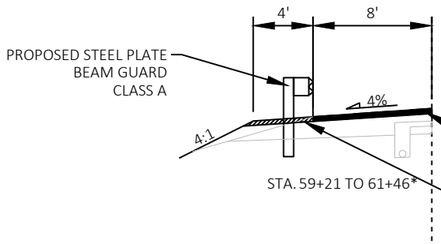
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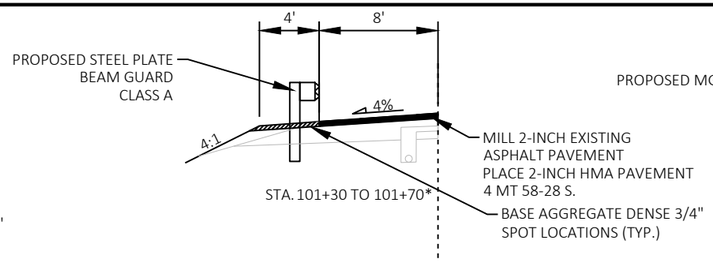


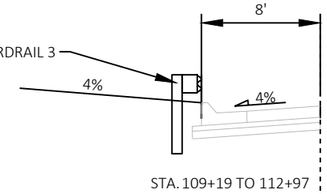
TYPICAL EXISTING SECTION
STH 30-I90-WB ENTRANCE RAMP

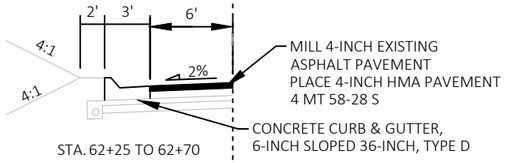
RAMP "P"
STA. 137+11 TO 169+60

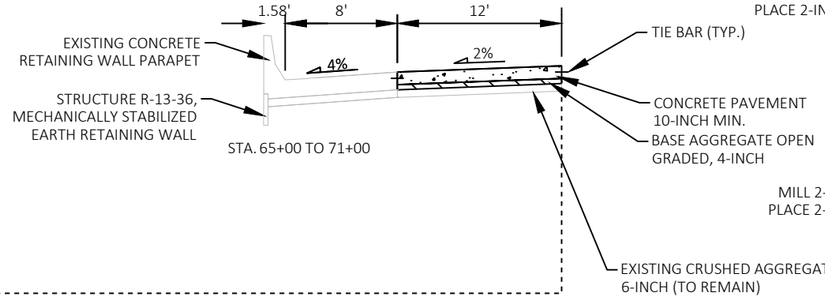
NOTE: ALL EXISTING PAVEMENT THICKNESSES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ANY WORK DUE TO VARYING THICKNESS WILL BE CONSIDERED INCIDENTAL TO THE AFFECTED WORK ITEMS.

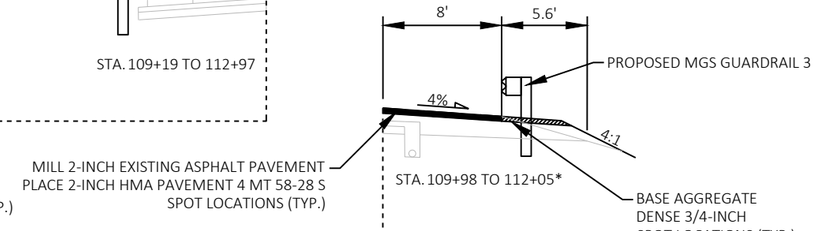


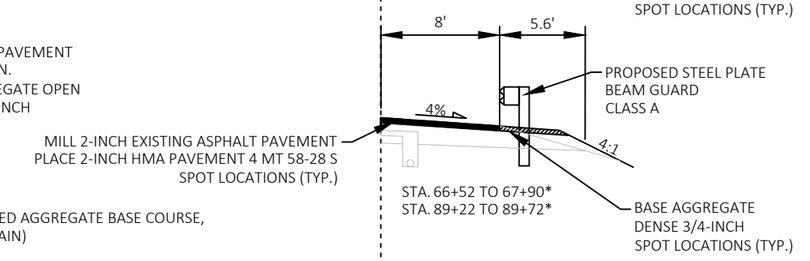


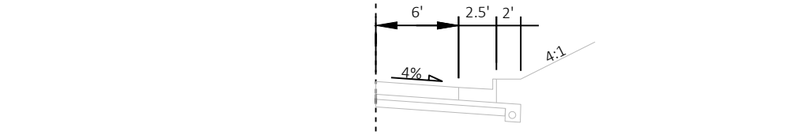


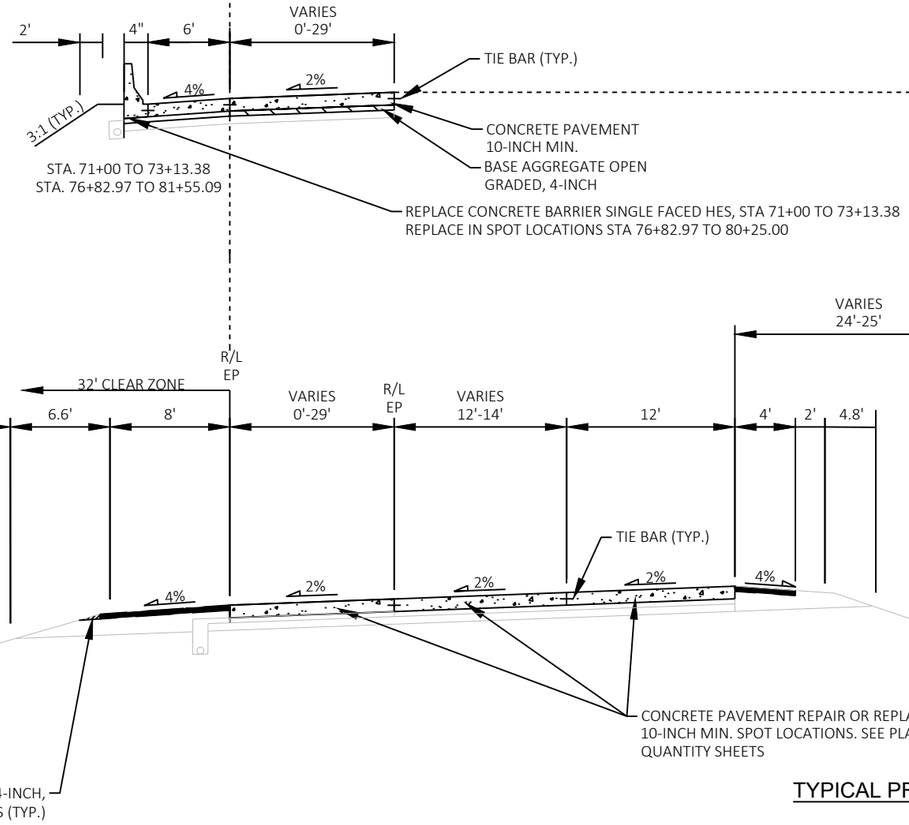


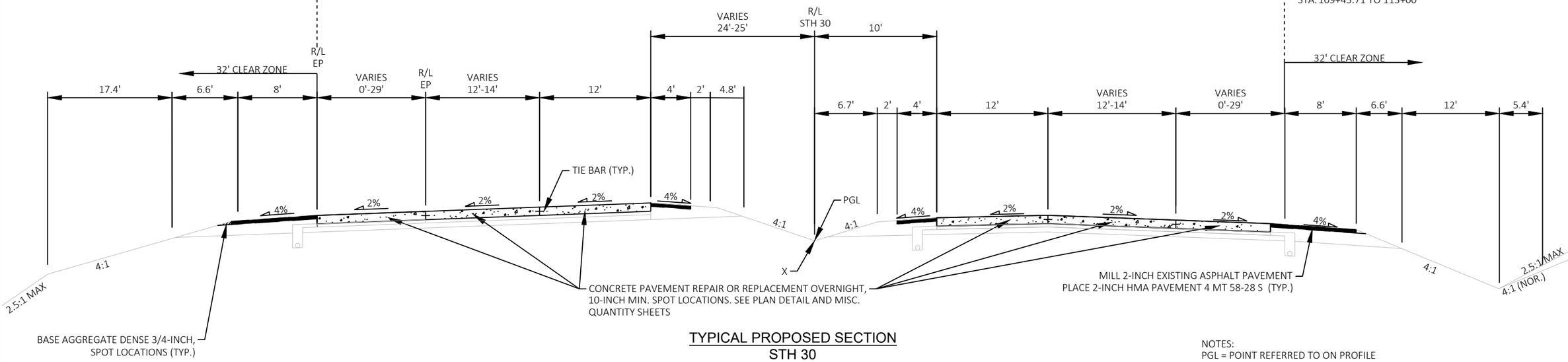












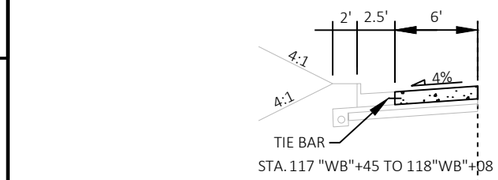
TYPICAL PROPOSED SECTION
STH 30

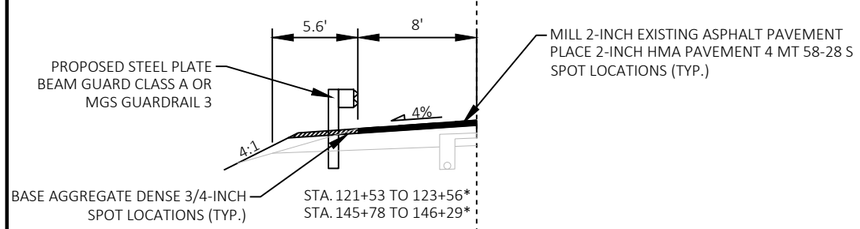
STA. 55+24 TO 117+33

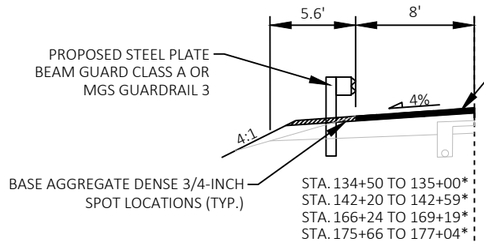
NOTES:
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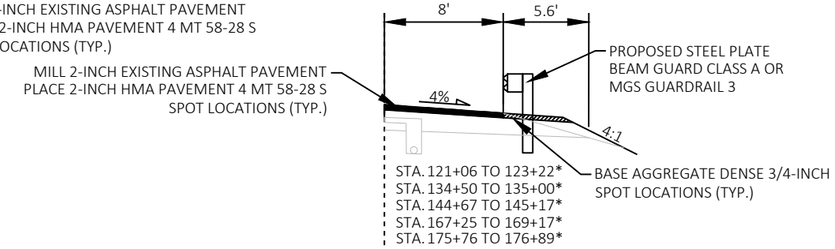
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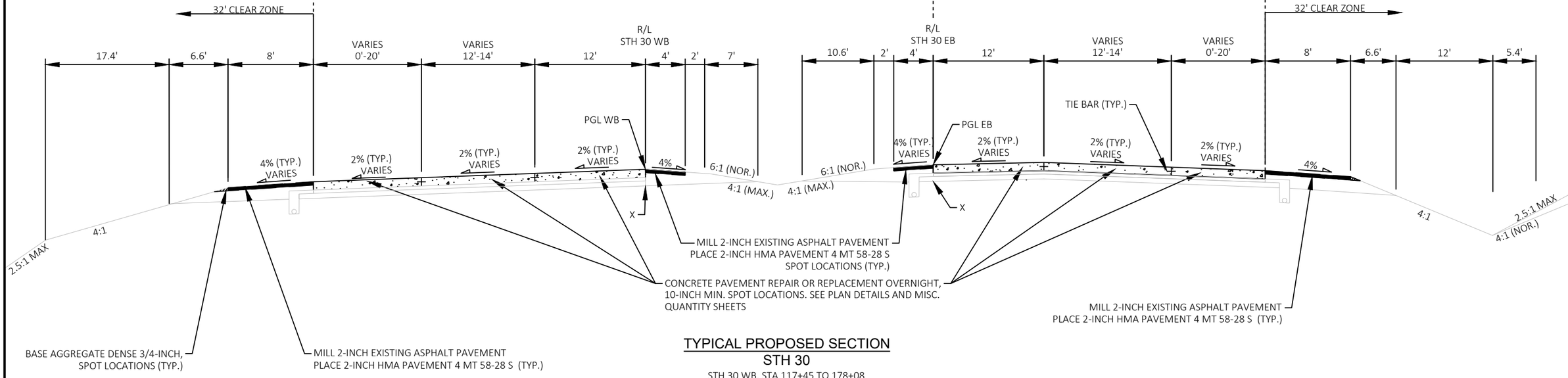
*4-INCH HMA REPLACEMENT AND SUBGRADE IMPROVEMENTS AT SPOT LOCATIONS ALONG GUARDRAIL REPLACEMENT. SEE CROSS SECTIONS FOR STATIONING.











TYPICAL PROPOSED SECTION
STH 30

STH 30 WB, STA 117+45 TO 178+08
STH 30 EB, STA 117+33 TO 177+15

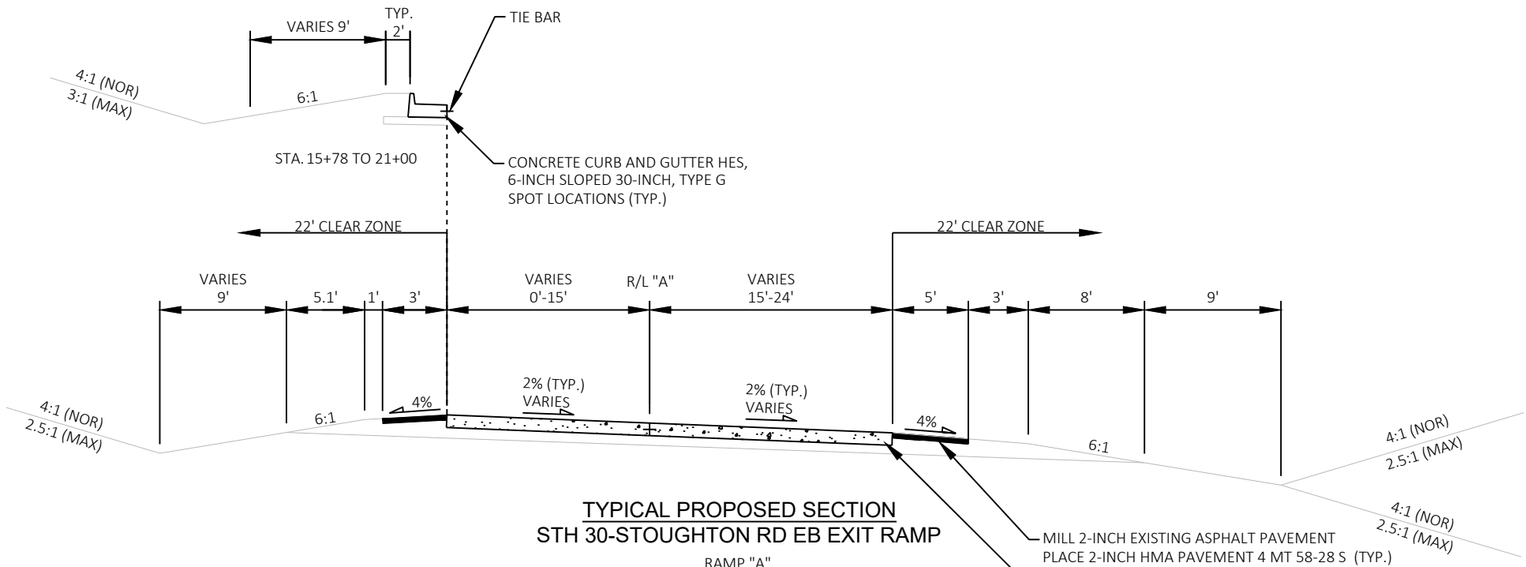
*4-INCH HMA REPLACEMENT AND SUBGRADE IMPROVEMENTS AT SPOT LOCATIONS ALONG GUARDRAIL REPLACEMENT. SEE CROSS SECTIONS FOR STATIONING.

NOTES:
PGL = POINT REFERRED TO ON PROFILE

X = POINT REFERRED TO ON CROSS-SECTION

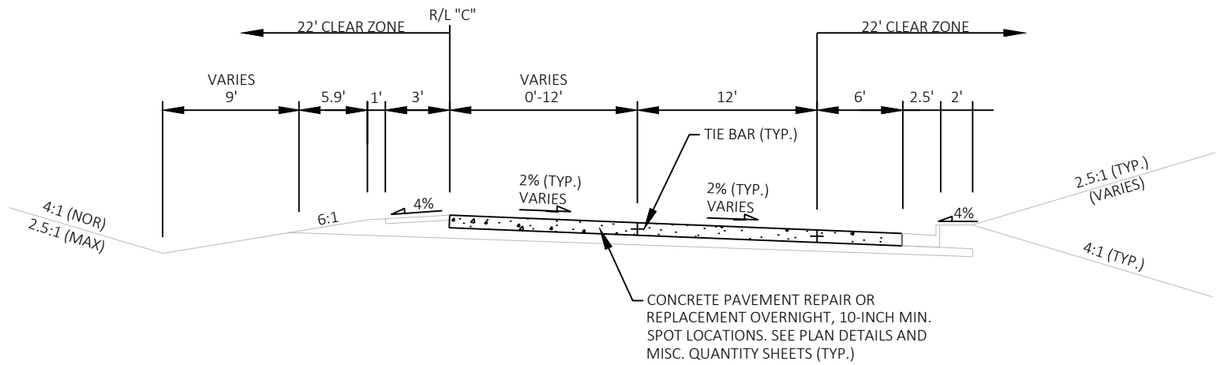
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TYPICAL PROPOSED SECTIONS	SHEET 13	E

2



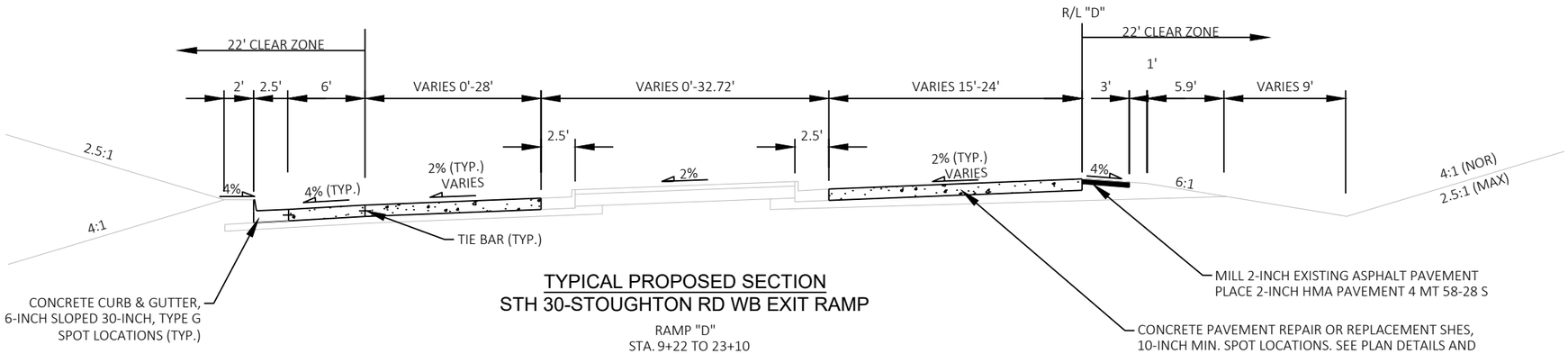
TYPICAL PROPOSED SECTION
STH 30-STOUGHTON RD EB EXIT RAMP

RAMP "A"
STA. 11+14 TO 22+23



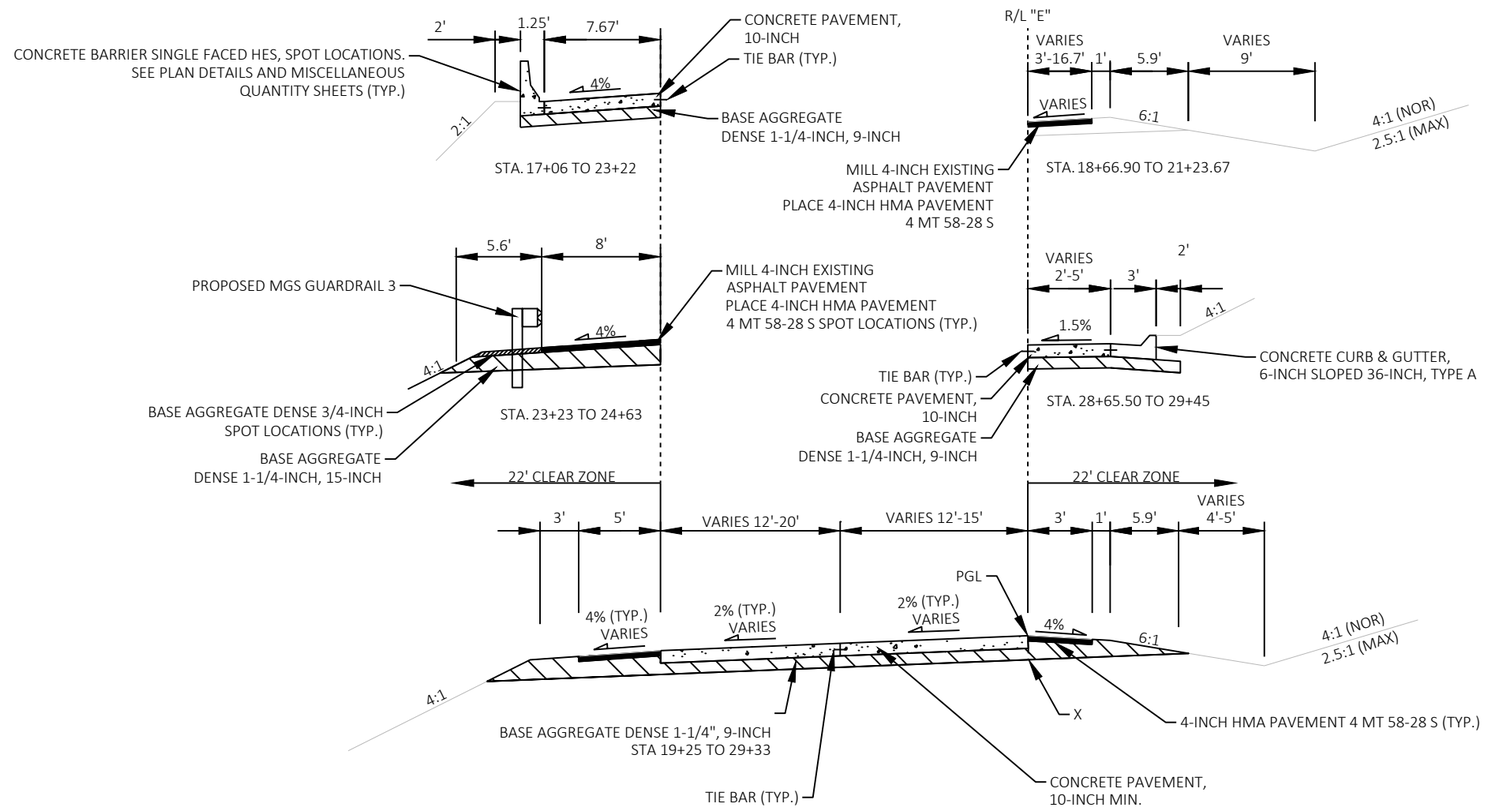
TYPICAL PROPOSED SECTION
STH 30-STOUGHTON RD EB ENTRANCE RAMP

RAMP "C"
STA. 10+87 TO 25+07



TYPICAL PROPOSED SECTION
STH 30-STOUGHTON RD WB EXIT RAMP

RAMP "D"
STA. 9+22 TO 23+10



TYPICAL PROPOSED SECTION
STH 30-STOUGHTON RD WB ENTRANCE RAMP

RAMP "E"
STA. 18+67 TO 29+45

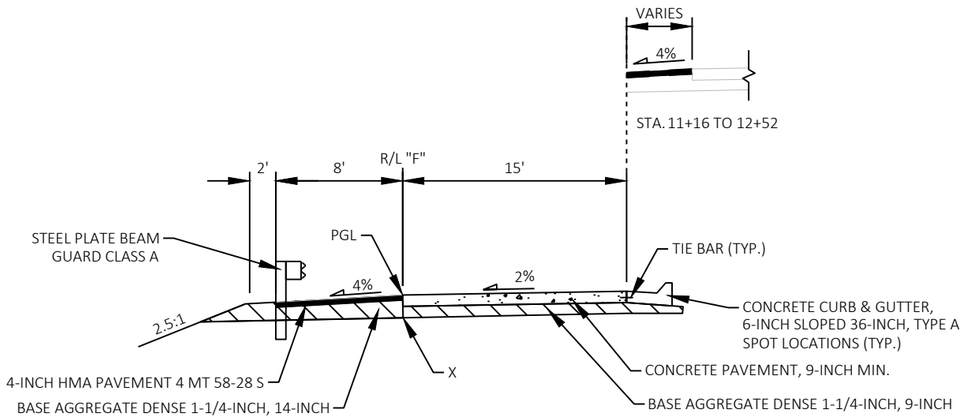
NOTES:
PGL = POINT REFERRED TO ON PROFILE

X = POINT REFERRED TO ON CROSS-SECTION

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TYPICAL PROPOSED SECTIONS	SHEET 15	E

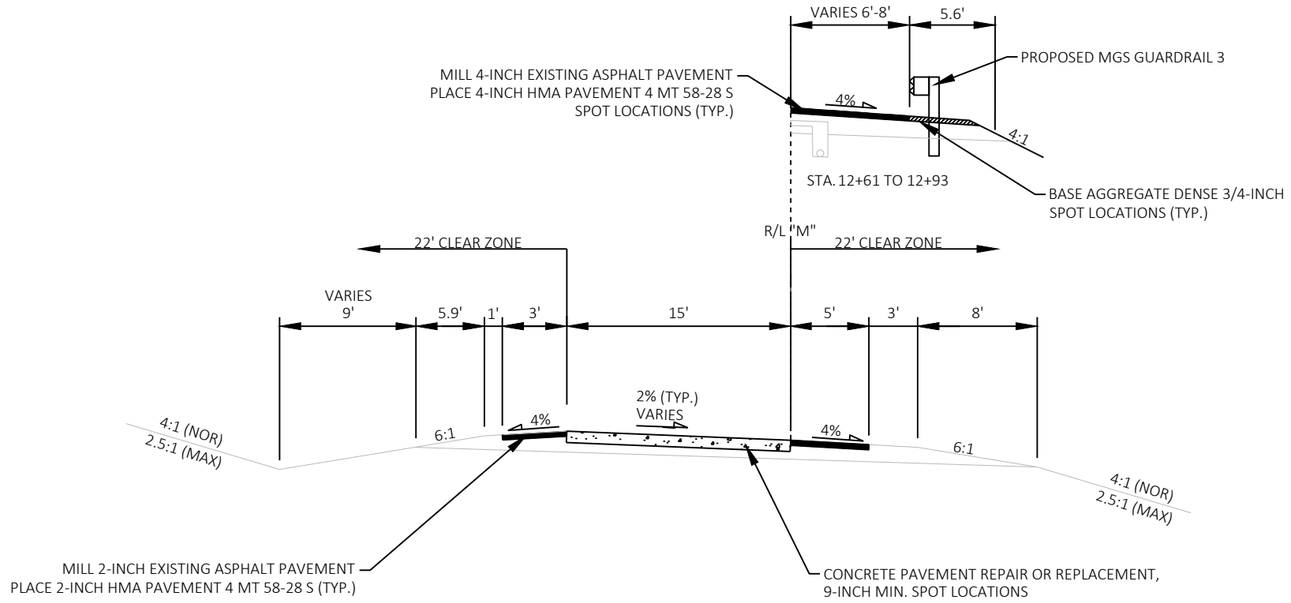
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PLOT BY : CECELIA TICHELAAR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



TYPICAL PROPOSED SECTION
STH 30-FAIR OAKS AVE WB EXIT RAMP

RAMP "F"
STA. 10+00 TO 13+38



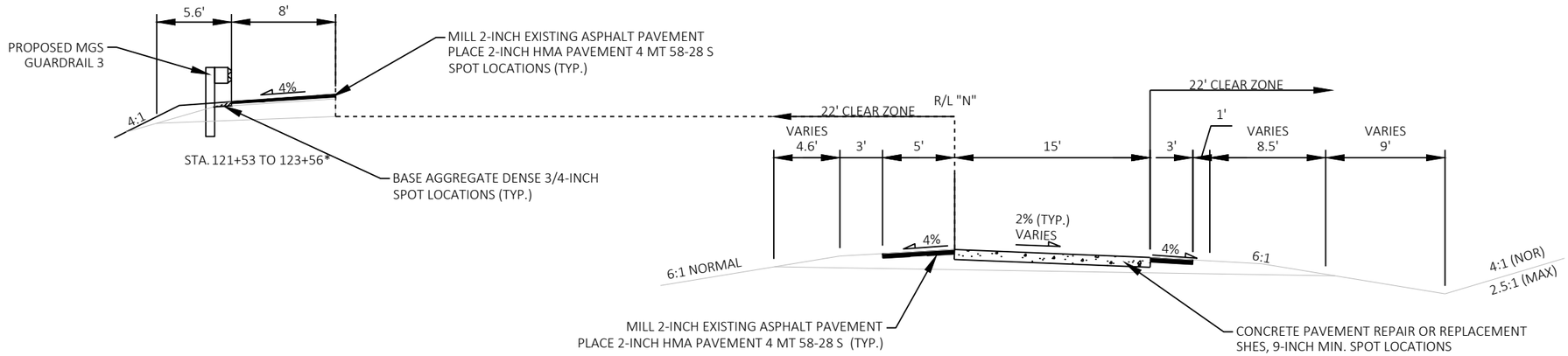
TYPICAL PROPOSED SECTION
STH 30-THOMPSON DR EB EXIT RAMP

RAMP "M"
STA. 12+61 TO 26+97

NOTES:
PGL = POINT REFERRED TO ON PROFILE

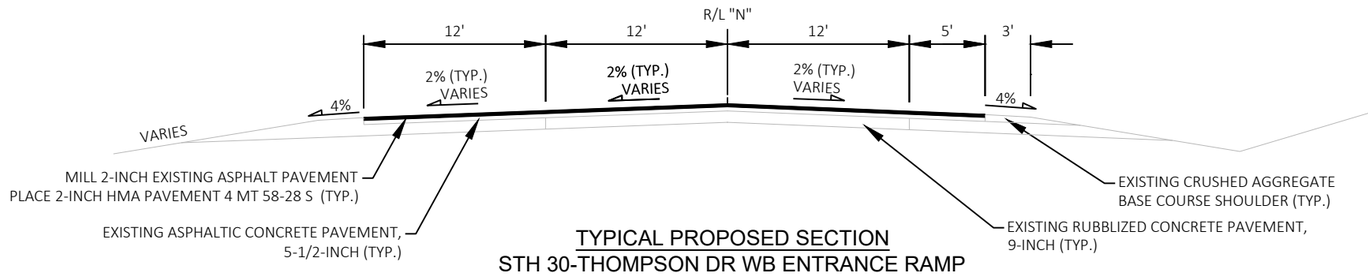
X = POINT REFERRED TO ON CROSS-SECTION

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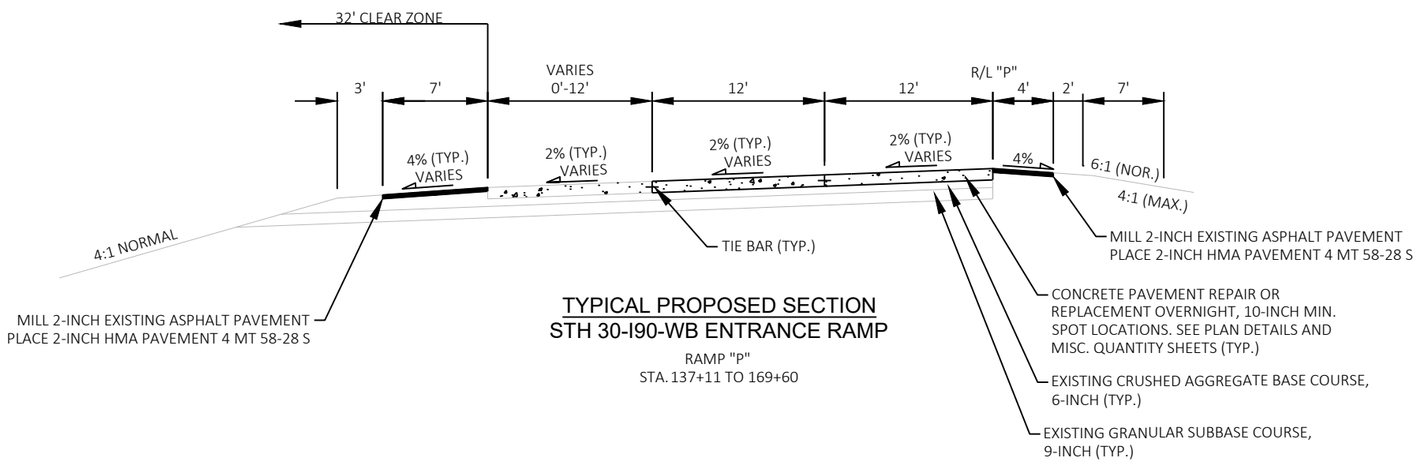
TYPICAL PROPOSED SECTION
STH 30-THOMPSON DR WB ENTRANCE RAMP

RAMP "N"
STA. 121+15 TO 131+52.13



TYPICAL PROPOSED SECTION
STH 30-THOMPSON DR WB ENTRANCE RAMP

RAMP "N"
STA. 131+52.13 TO 133+00.87

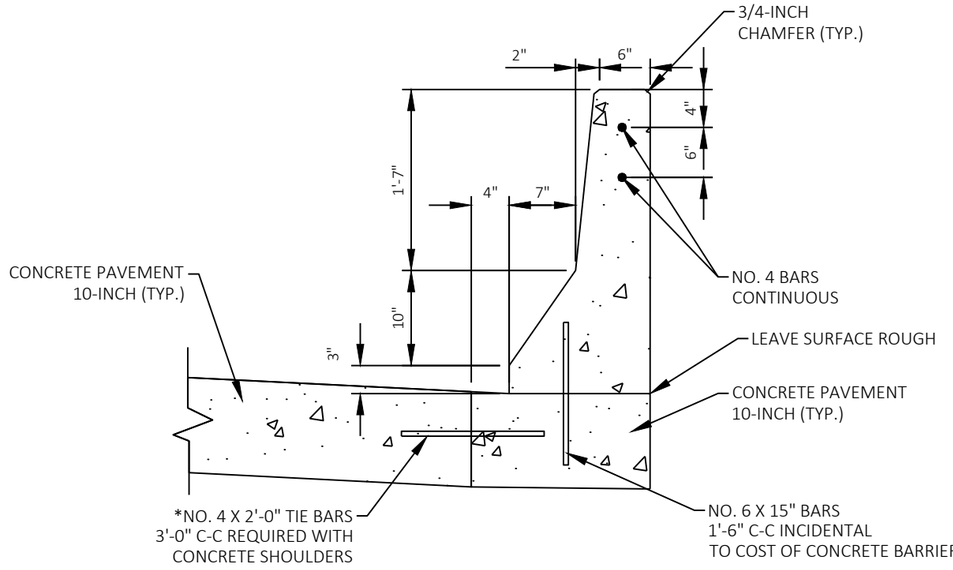


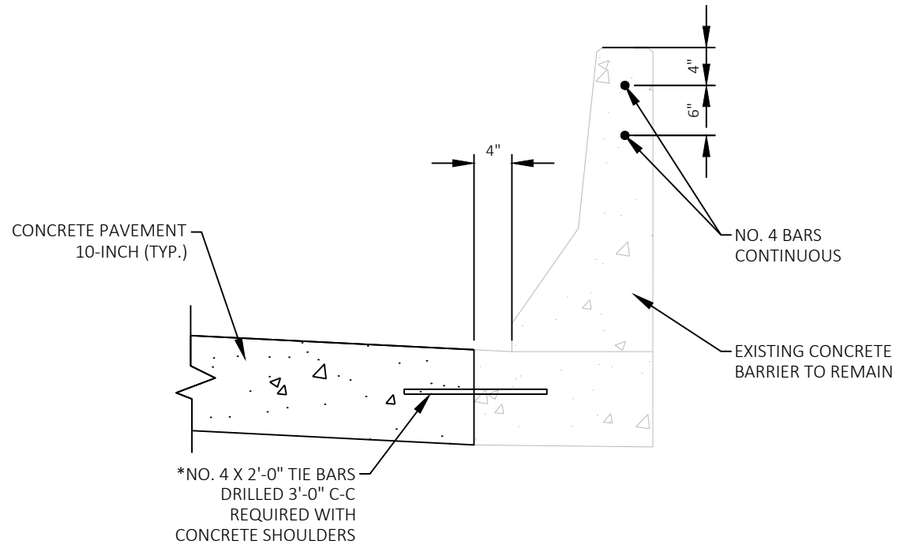
TYPICAL PROPOSED SECTION
STH 30-I90-WB ENTRANCE RAMP

RAMP "P"
STA. 137+11 TO 169+60

NOTES:
*4-INCH HMA REPLACEMENT AND SUBGRADE IMPROVEMENTS AT SPOT LOCATIONS ALONG GUARDRAIL REPLACEMENT. SEE CROSS SECTIONS FOR STATIONING.

2



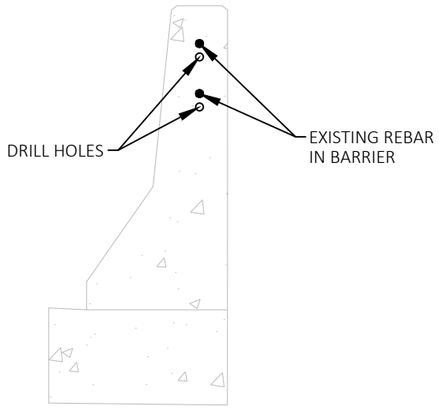


CONCRETE BARRIER SINGLE FACED 32-INCH, HES

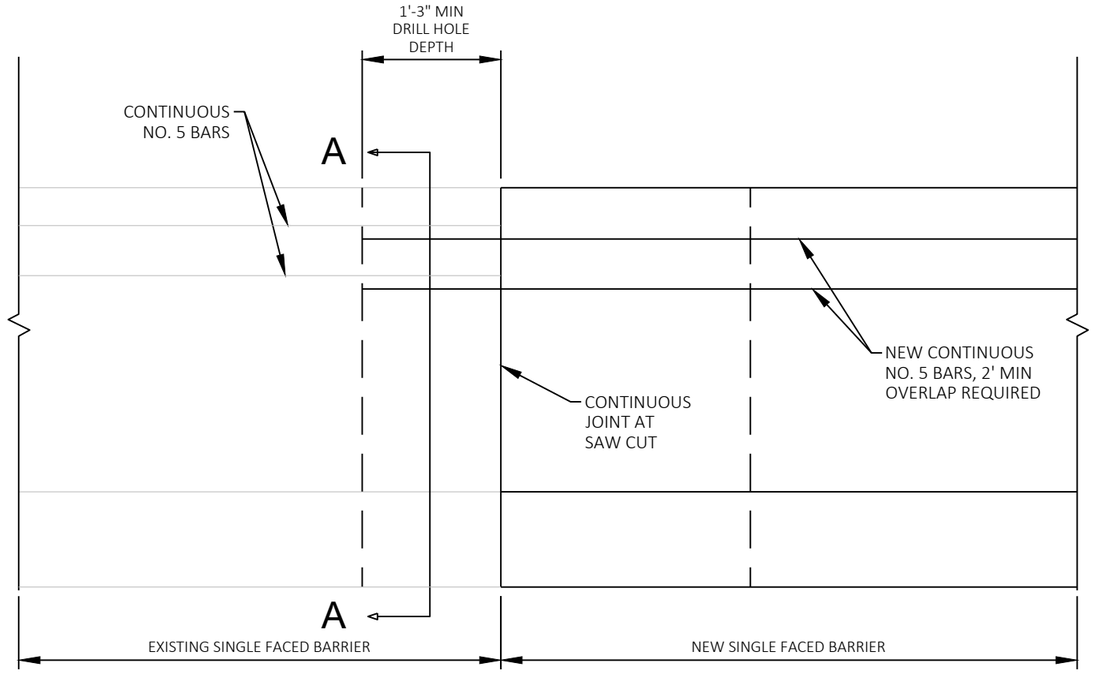
N.T.S.

*PLACE TIE BARS SUCH THAT IT WILL
NOT CONFLICT WITH THE NO. 6 BARS

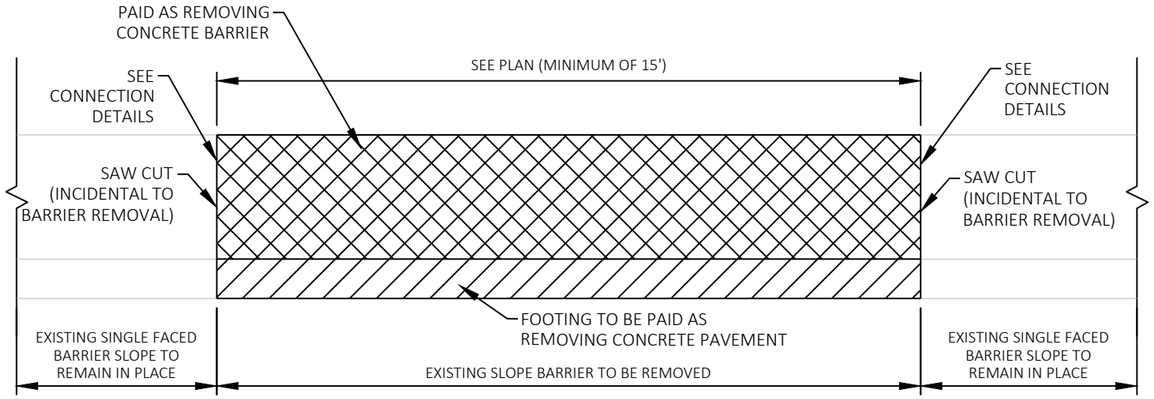
NOTE: SEE SDD "CONCRETE BARRIER, SINGLE FACED
(WITH ANCHORAGE)" FOR INFORMATION NOT SHOWN



SECTION A-A



ELEVATION VIEW
CONNECTION OF EXISTING SINGLE FACED CONCRETE BARRIER TO NEW SINGLE FACED CONCRETE BARRIER

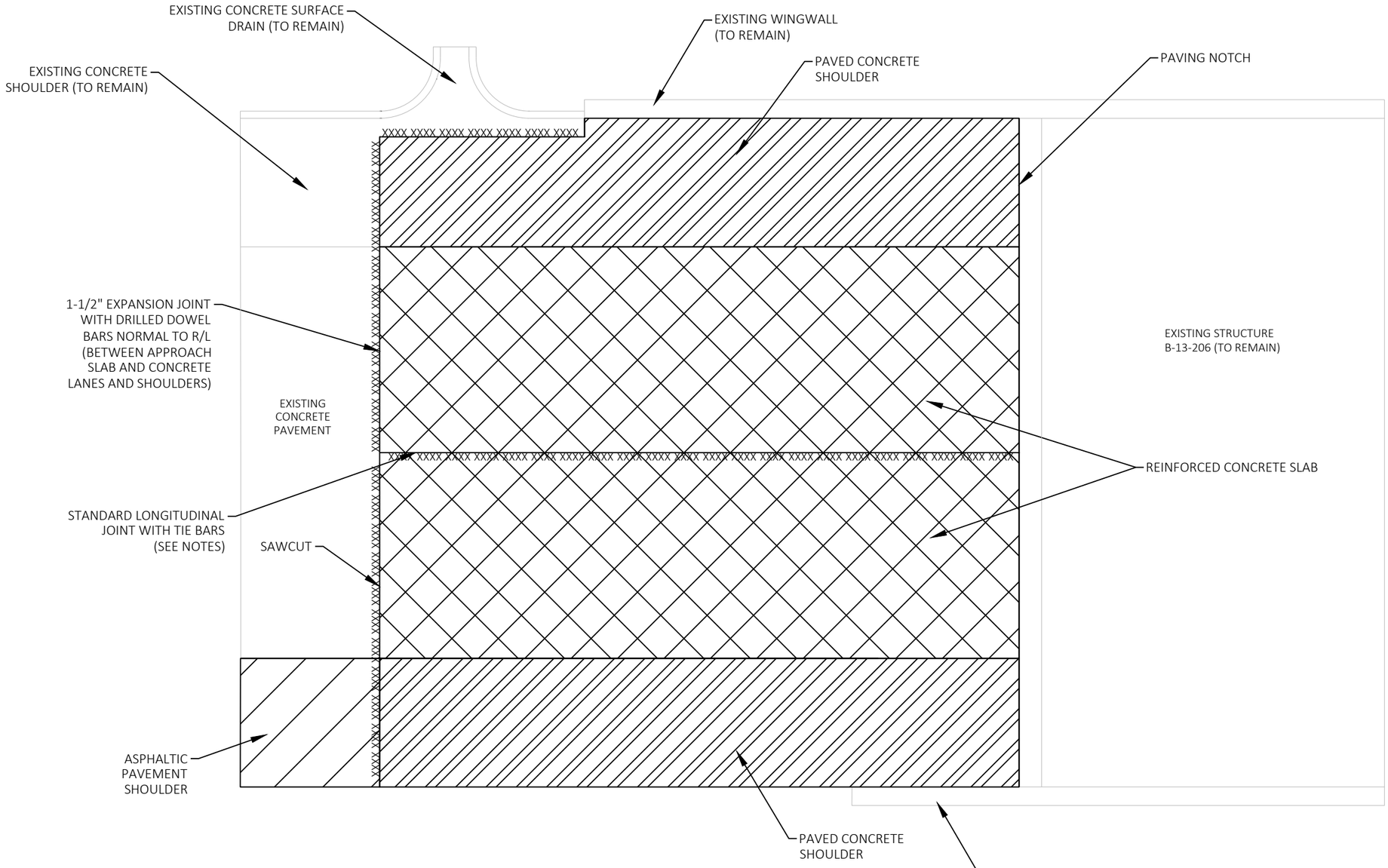


ELEVATION VIEW
BARRIER REMOVAL AND REPLACEMENT

NOTES:
1. THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).
2. MINIMUM DEPTH OF DRILL HOLES IS 1'-3".
3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE.
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.
5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIERS.
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.

CONCRETE BARRIER SINGLE FACED 32-INCH

2



NOTES:

1. THE CONTRACTOR MAY USE TWO POLYETHYLENE PLASTIC SHEETS (OR SIMILAR THICK PLASTIC) BETWEEN THE FIRST CONCRETE SLAB PLACED AND EXISTING ADJACENT SLAB TO FORM A BOND BREAKER TO REMOVE THE SECOND HALF. THIS IS INCIDENTAL TO CONCRETE PAVEMENT APPROACH SLAB ITEMS.
2. THE CONTRACTOR MAY USE L-SHAPED TIE BARS AND BEND FOR SECOND POUR, IF SPACE IS AVAILABLE. THIS IS INCIDENTAL TO CONCRETE PAVEMENT APPROACH SLAB ITEMS.

PLAN VIEW

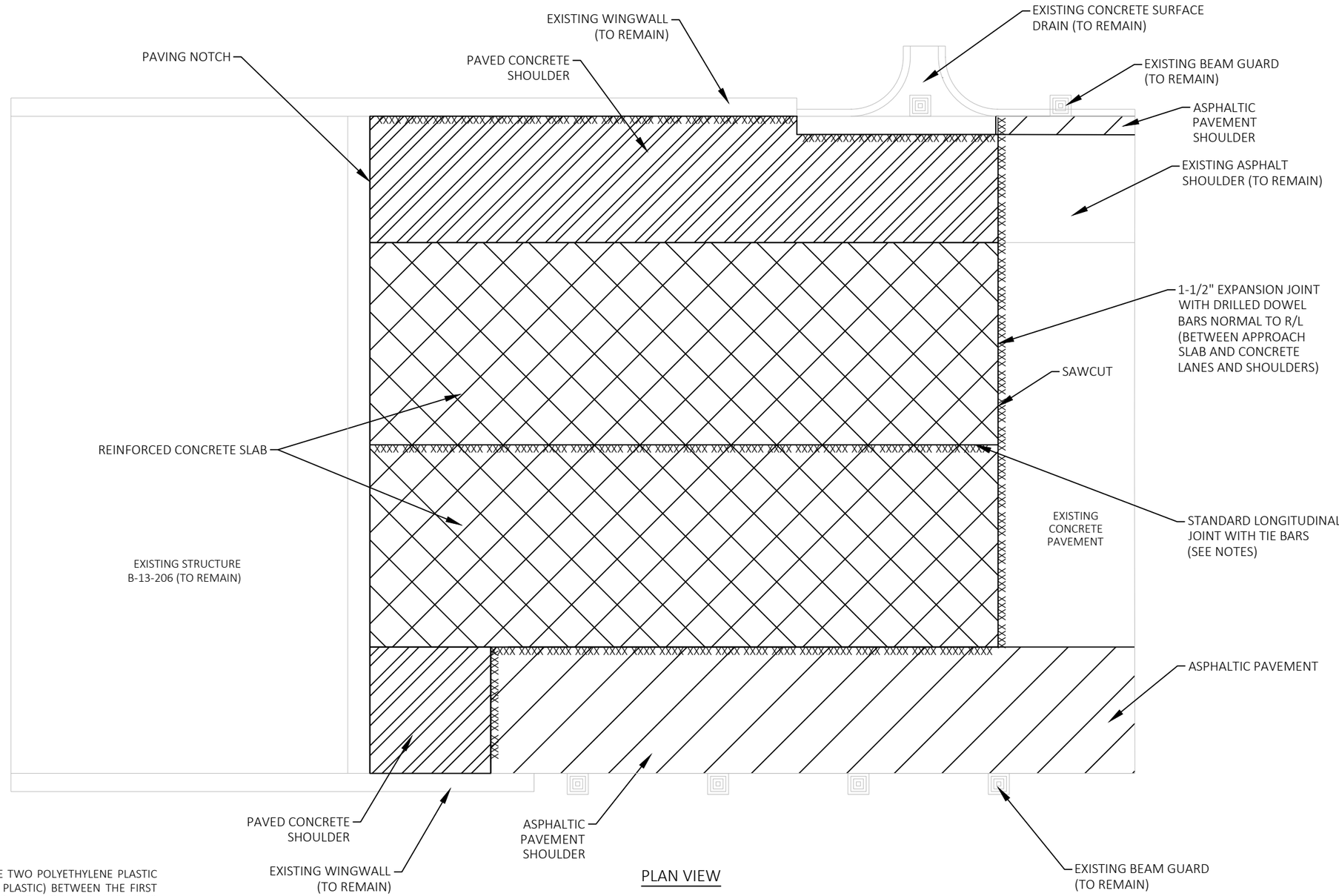
CONCRETE PAVEMENT APPROACH SLAB DETAIL

STH 30 WB
STA 55+94 TO 56+14

NOTE: SEE SDD "CONCRETE PAVEMENT APPROACH SLAB" FOR INFORMATION NOT SHOWN

2

N



NOTES:

1. THE CONTRACTOR MAY USE TWO POLYETHYLENE PLASTIC SHEETS (OR SIMILAR THICK PLASTIC) BETWEEN THE FIRST CONCRETE SLAB PLACED AND EXISTING ADJACENT SLAB TO FORM A BOND BREAKER TO REMOVE THE SECOND HALF. THIS IS INCIDENTAL TO CONCRETE PAVEMENT APPROACH SLAB ITEMS.
2. THE CONTRACTOR MAY USE L-SHAPED TIE BARS AND BEND FOR SECOND POUR, IF SPACE IS AVAILABLE. THIS IS INCIDENTAL TO CONCRETE PAVEMENT APPROACH SLAB ITEMS.

PLAN VIEW

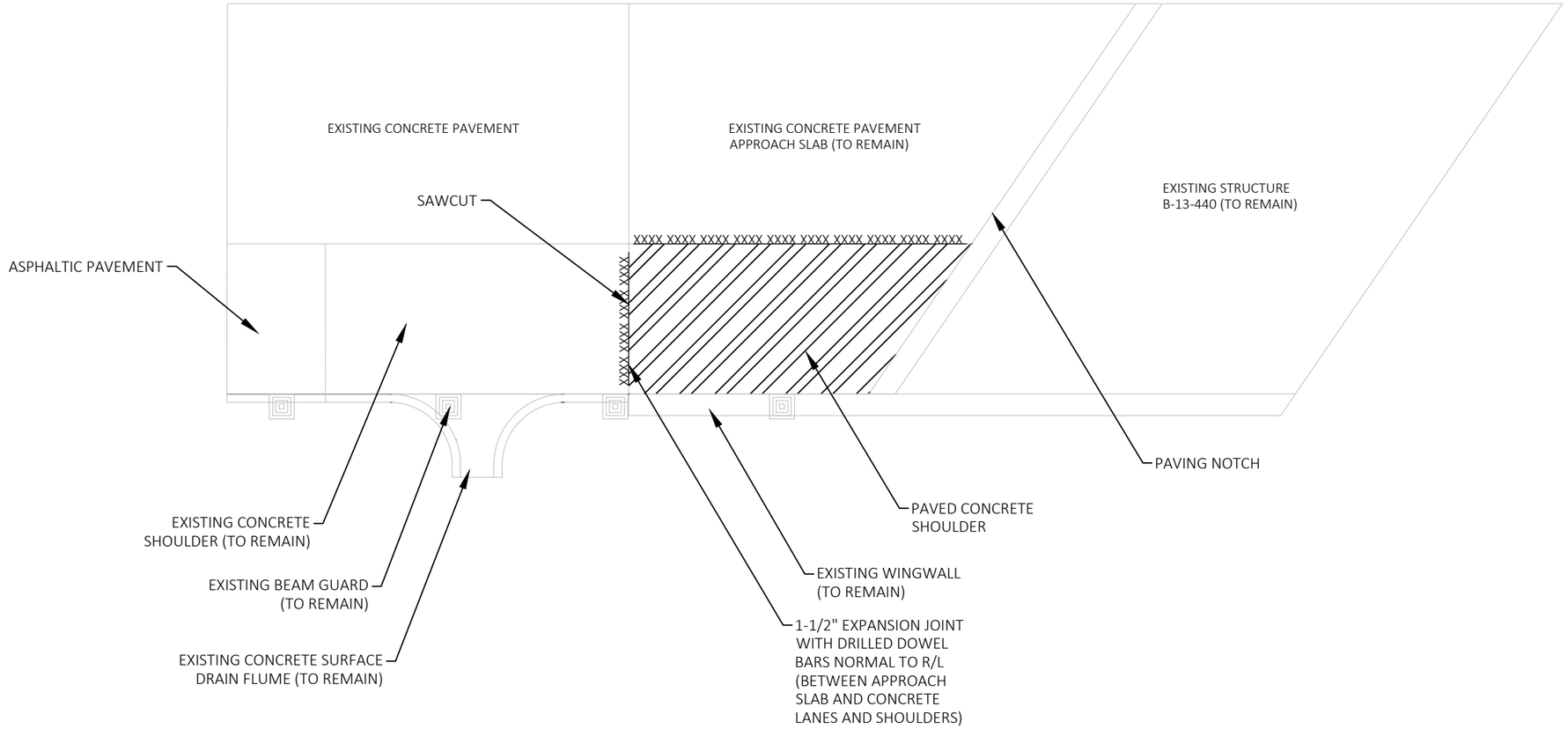
CONCRETE PAVEMENT APPROACH SLAB DETAIL

STH 30 WB
STA 57+55 TO 57+88

NOTE: SEE SDD "CONCRETE PAVEMENT APPROACH SLAB" FOR INFORMATION NOT SHOWN

2

N



PLAN VIEW

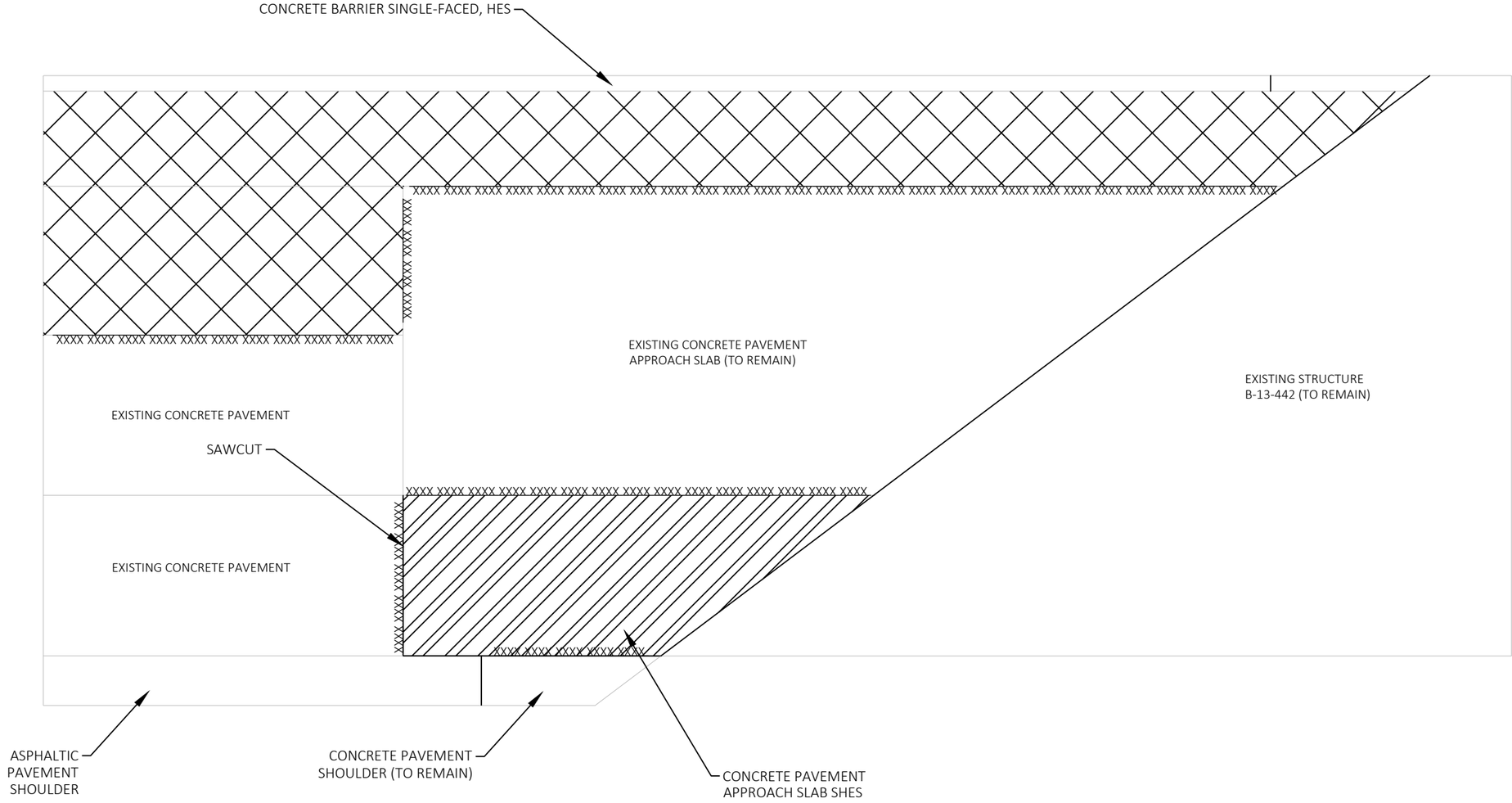
CONCRETE PAVEMENT APPROACH SLAB DETAIL

STH 30 EB
STA 71+45 TO 71+70

NOTE: SEE SDD "CONCRETE PAVEMENT APPROACH SLAB" FOR INFORMATION NOT SHOWN

2

N



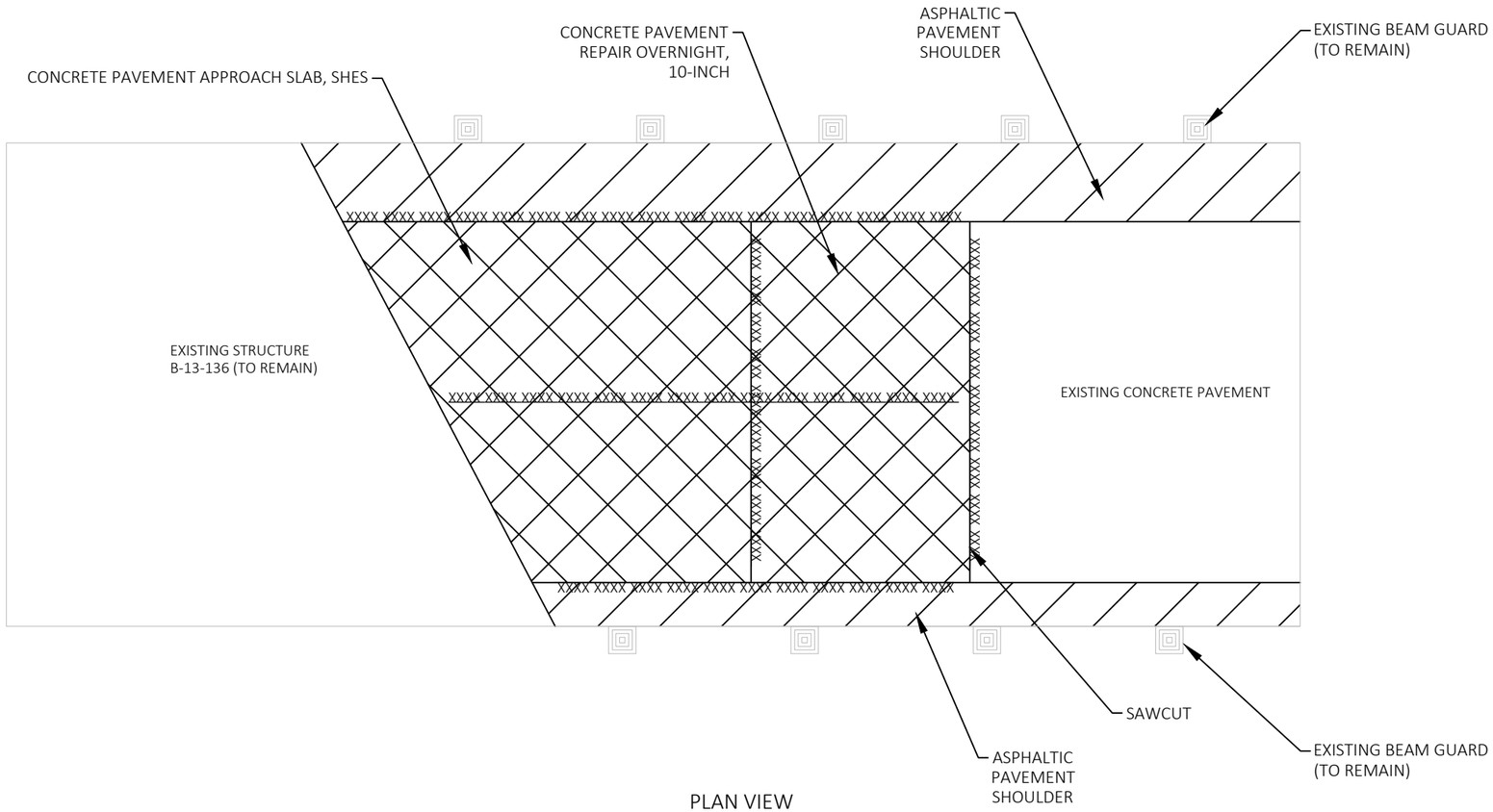
PLAN VIEW

CONCRETE PAVEMENT APPROACH SLAB DETAIL

STH 30 WB
STA 72+45 TO 72+83

NOTE: SEE SDD "CONCRETE PAVEMENT APPROACH SLAB" FOR INFORMATION NOT SHOWN

2

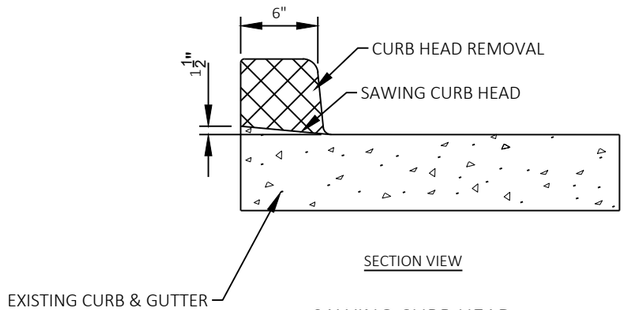


PLAN VIEW

CONCRETE PAVEMENT APPROACH SLAB DETAIL

STH 30 EB
STA 138+19 TO 138+47

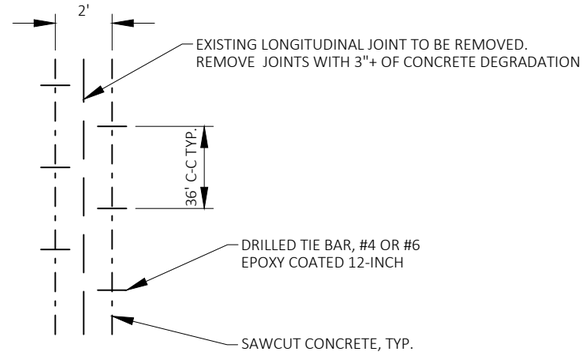
NOTE: SEE SDD "CONCRETE PAVEMENT APPROACH SLAB" FOR INFORMATION NOT SHOWN



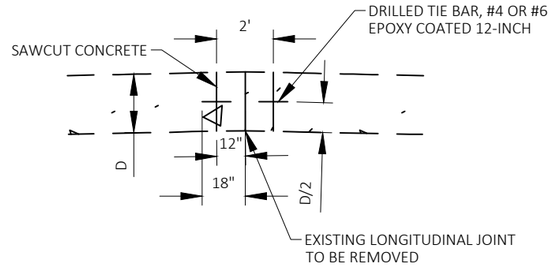
SECTION VIEW

SAWING CURB HEAD

STA 108"30"+93 TO 109"30"+41, RT
STA 111"30"+23 TO 112"30"+65, LT



PLAN



SECTION

CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT DETAIL

NOTE:TIE BAR MAY BE DRILLED AT AN
ANGLE, THEN BENT PERPENDICULAR
TO JOINT AFTER INSTALLATION.

STH 30:
JOINT BETWEEN EB LANE 1 & 2, STA 65"30"+00 TO 65"30"+60, RT
JOINT BETWEEN WB LANE 1 & 2, STA 71"30"+00 TO 72"30"+00, LT
JOINT BETWEEN WB LANE 1 & 2, STA 77"30"+00 TO 81"30"+50, LT (200 LF TOTAL REPAIRS)
JOINT BETWEEN EB LANE 1 & 2, STA 78"30"+50 TO 79"30"+40, RT
JOINT BETWEEN WB LANE 1 & 2, STA 82"30"+00 TO 85"30"+00, LT (150 LF TOTAL REPAIRS)
JOINT BETWEEN WB LANE 1 & 2, STA 85"30"+80 TO 86"30"+20, LT
JOINT BETWEEN WB LANE 1 & 2, STA 86"30"+50 TO 87"30"+00, LT
JOINT BETWEEN WB LANE 1 & 2, STA 87"30"+50 TO 88"30"+50, LT
JOINT BETWEEN WB LANE 1 & 2, STA 91"30"+00 TO 93"30"+40, LT (200 LF TOTAL REPAIRS)
JOINT BETWEEN EB LANE 1 & 2, STA 92"30"+25 TO 92"30"+55, RT
JOINT BETWEEN WB LANE 1 & 2, STA 97"30"+75 TO 110"30"+00, LT (1,000 LF TOTAL REPAIRS)
JOINT BETWEEN EB LANE 1 & 2, STA 99"30"+30 TO 99"30"+75, RT
JOINT BETWEEN EB LANE 1 & 2, STA 101"30"+50 TO 101"30"+80, RT
JOINT BETWEEN EB LANE 3 & OUTSIDE SHOULDER, STA 109"30"+00 TO 118"30"+00, RT (500 LF TOTAL REPAIRS)
JOINT BETWEEN EB LANE 1 & 2, STA 114"30"+00 TO 136"30"+25, RT (600 LF TOTAL REPAIRS)
JOINT BETWEEN WB LANE 1 & 2, STA 124"30"+50 TO 125"30"+40, LT
JOINT BETWEEN WB LANE 1 & 2, STA 132"30"+25 TO 132"30"+55, LT

STOUGHTON ROAD EB ENTRANCE RAMP:
400 LF TOTALS REPAIRS BETWEEN RAMP LANES
300 LF TOTAL REPAIRS BETWEEN OUTSIDE RAMP LANE AND OUTSIDE SHOULDER
RAMP LANE, STA 110"C"+00 TO 113"C"+50, RT

STOUGHTON ROAD WB EXIT RAMP:
RAMP LANE, 700 LF TOTAL REPAIRS BETWEEN RAMP LANES AND OUTSIDE SHOULDERS

2

2

N

BEGIN PROJECT 5490-00-62
STA 54+00.00 "30"

BEGIN CONSTRUCTION
STA 55"30"+00

BEGIN CONSTRUCTION
STA 10"F"+00

END PROJECT 5490-00-62/
BEGIN PROJECT 5490-00-63
STA 61+06.00 "30"

338 LF REMOVING GUARDRAIL

11 LF REMOVING CURB AND GUTTER

30 LF REMOVING GUARDRAIL

B-13-206

B-13-211

FAIR OAKS WB EXIT RAMP

FAIR OAKS EB ENTRANCE RAMP

STH 30 WB

STH 30 EB

COMMERCIAL AVE

CHRISTIANSON AVE

JACOBSON AVE

GANNON AVE

N. FAIR OAKS AVE

9"F"

10"F"

11"F"

12"F"

13"F"

R/L RAMP "F"

R/L "30"

R/L "EP"

62"EP"

63"EP"

64"EP"

50 "30"

51 "30"

52 "30"

53 "30"

54 "30"

55 "30"

56 "30"

57 "30"

58 "30"

59 "30"

60 "30"

61 "30"

62 "30"

63 "30"

64 "30"

MATCHLINE STA 64+75.00 "30"

6_244

6_243

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 26	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/31/2021 12:49 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCHLINE STA 64+75.00 "30"

MATCHLINE STA 79+50.00 "30"

FAIRMONT AVE

MAYFAIR AVE

WISCONSIN AND SOUTHERN RAILROAD

END CONSTRUCTION
STA 13"E"+38

BEGIN CONSTRUCTION
STA 65"EP"+00

R-13-36

14 "F"

65"EP" 66"EP" 67"EP" 68"EP" 69"EP" 70"EP" 71"EP" 72"EP" 73"EP" 74"EP" 75"EP" 76"EP" 77"EP" 78"EP" 79"EP"

REMOVE CONCRETE BARRIER,
STA 71+00 TO 73+16

R/L "30"

END CONSTRUCTION
STA 73"EP"+26

B-13-442

BEGIN CONSTRUCTION
STA 76"EP"+83

REMOVE CONCRETE BARRIER,
STA 76+99 TO 77+97

STH 30 WB

65 "30" 66 "30" 67 "30" 68 "30" 69 "30" 70 "30" 71 "30" 72 "30" 73 "30" 74 "30" 75 "30" 76 "30" 77 "30" 78 "30" 79 "30"

STH 30 EB

7 "A"

51 LF REMOVING GUARDRAIL

B-13-440

R/L RAMP "A"

RIPRAP

RUINS

RUINS

DOCK

6_241

6_242

6_240
857.29

2_032_18
857.60

2_031_12
847.31

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX . SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 27	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/31/2021 12:50 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

COMMERCIAL AVE

END CONSTRUCTION
STA 29"E"+45

BEGIN CONSTRUCTION
STA 18"E"+67

END CONSTRUCTION
STA 83"EP"+15

REMOVE CONCRETE BARRIER,
STA 79+99 TO 80+24

REMOVE CONCRETE BARRIER,
STA 19"E"+00 TO 19"E"+25

70 LF REMOVING GUARDRAIL

STOUGHTON RD WB ENTRANCE RAMP

R/L RAMP "E"

STH 30 WB

R/L "30"

STH 30 EB

STOUGHTON RD EB EXIT RAMP

38 LF REMOVING GUARDRAIL

8 LF REMOVING
CURB AND GUTTER

R/L RAMP "A"

MATCHLINE STA 79+50.00 "30"

MATCHLINE STA 94+25.00 "30"

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX . SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 28	E

2

2

N

STOUGHTON RD

STOUGHTON RD WB EXIT RAMP

COMMERCIAL AVE

23 LF REMOVING CURB AND GUTTER

35 LF REMOVING CURB AND GUTTER

45 LF REMOVING GUARDRAIL

R/L RAMP "E"

R/L RAMP "D"

R/L "30"

STH 30 WB

STH 30 EB

B-13-322

B-13-323

STOUGHTON RD EB ENTRANCE RAMP

R/L RAMP "C"

MATCHLINE STA 94+25.00 "30"

MATCHLINE STA 109+00.00 "30"

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX SAWING CONCRETE OR SAWING ASPHALT

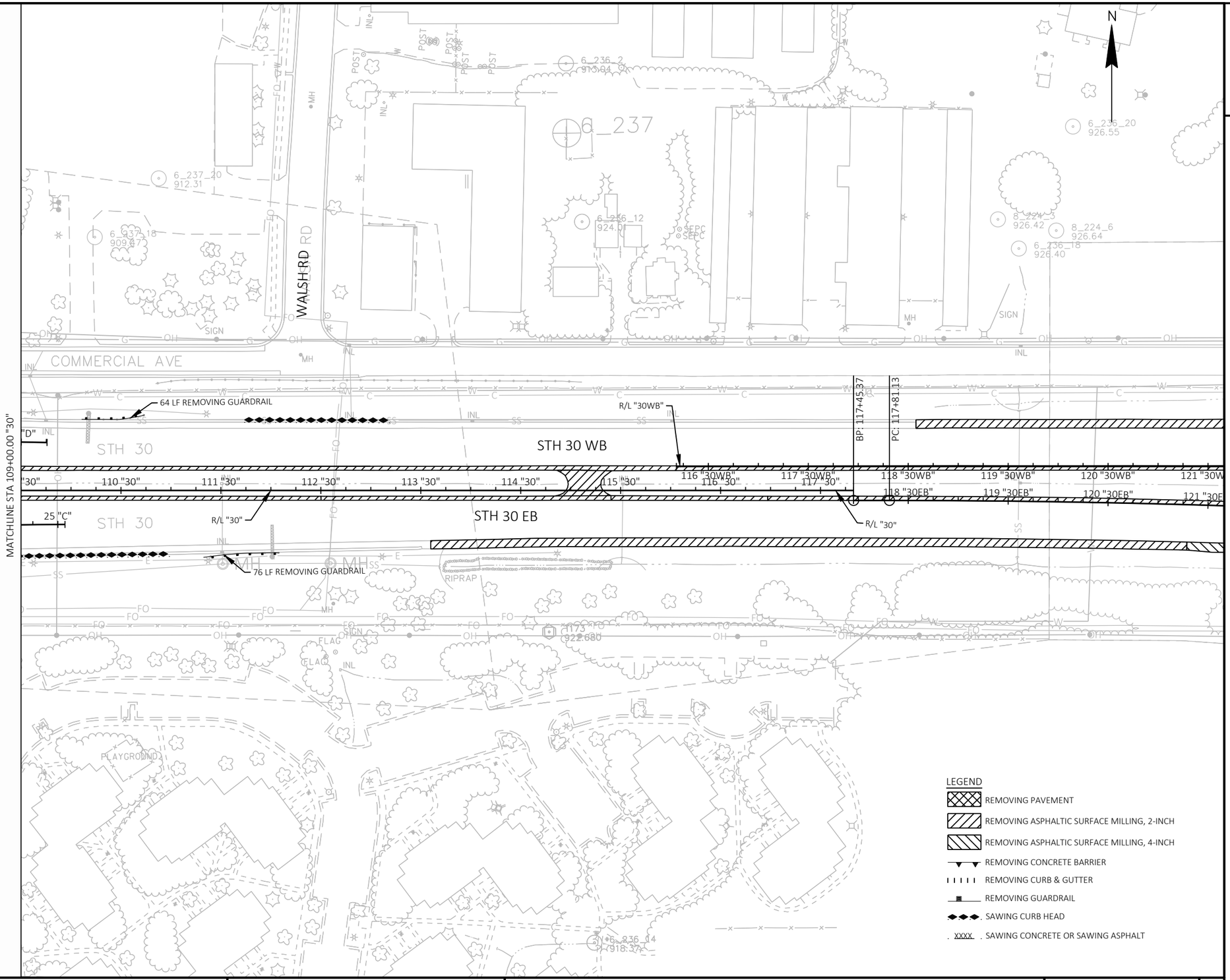
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 29	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/31/2021 12:53 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

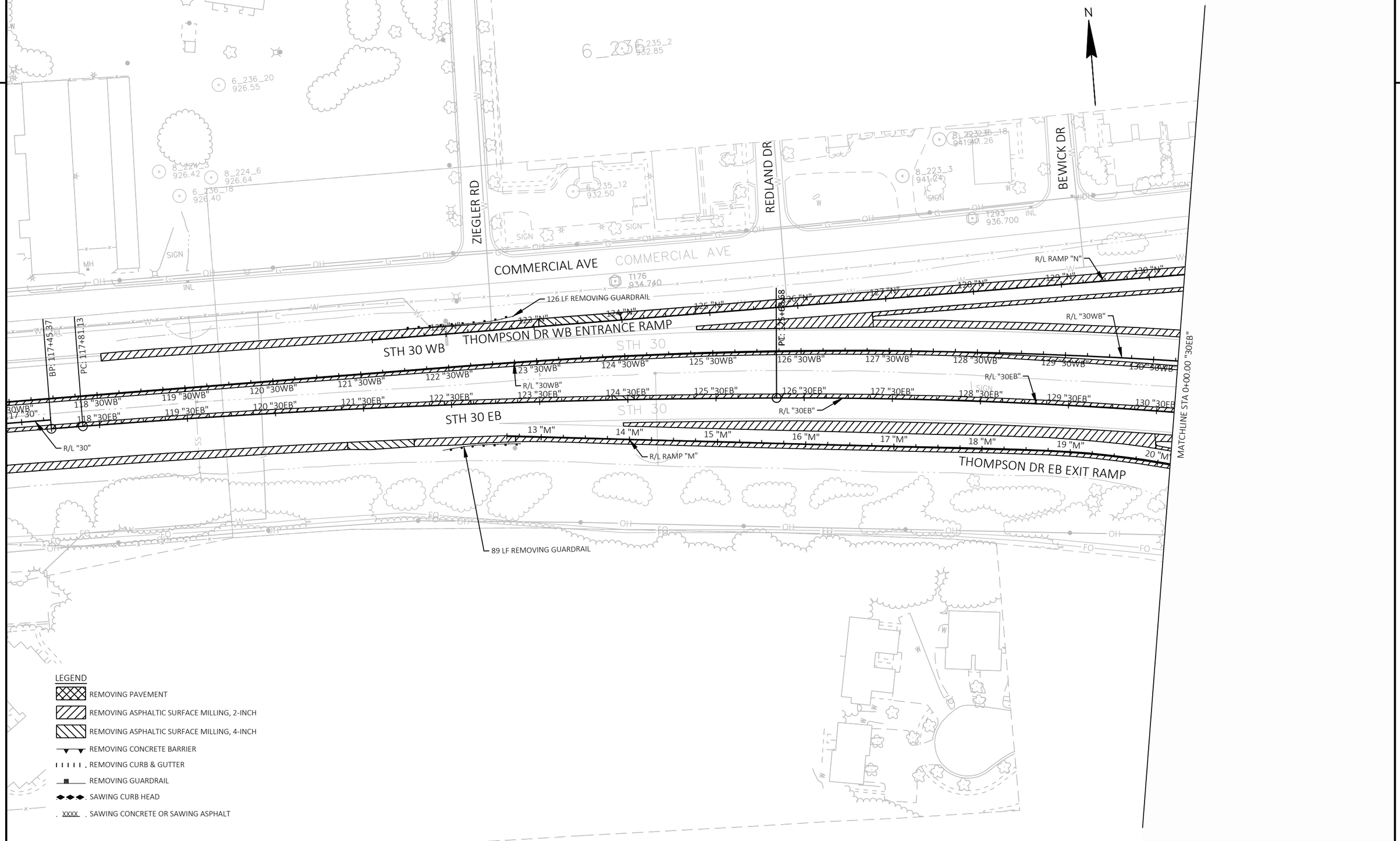
- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX . SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 30	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/31/2021 12:54 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

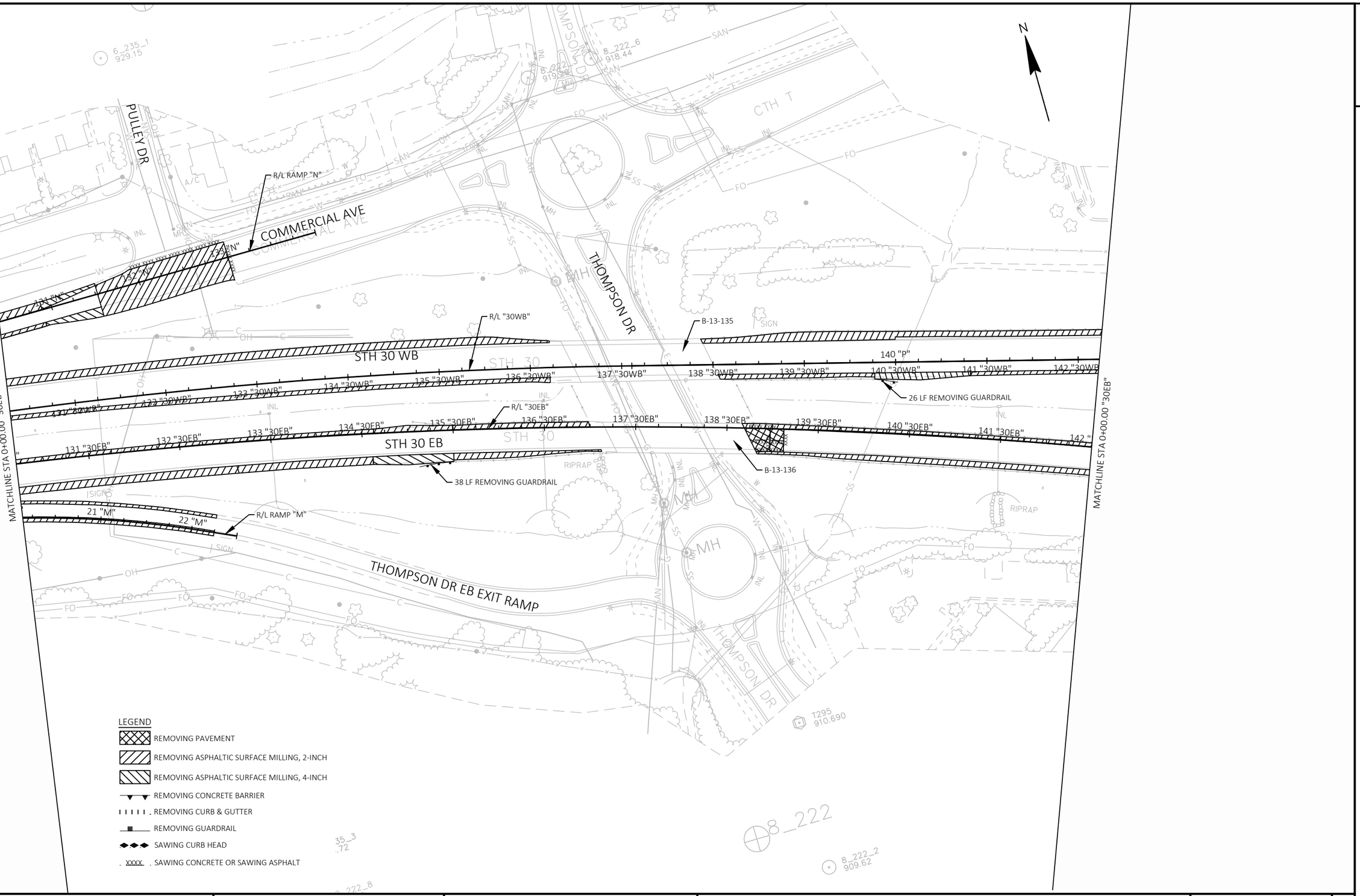


PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 31	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 06

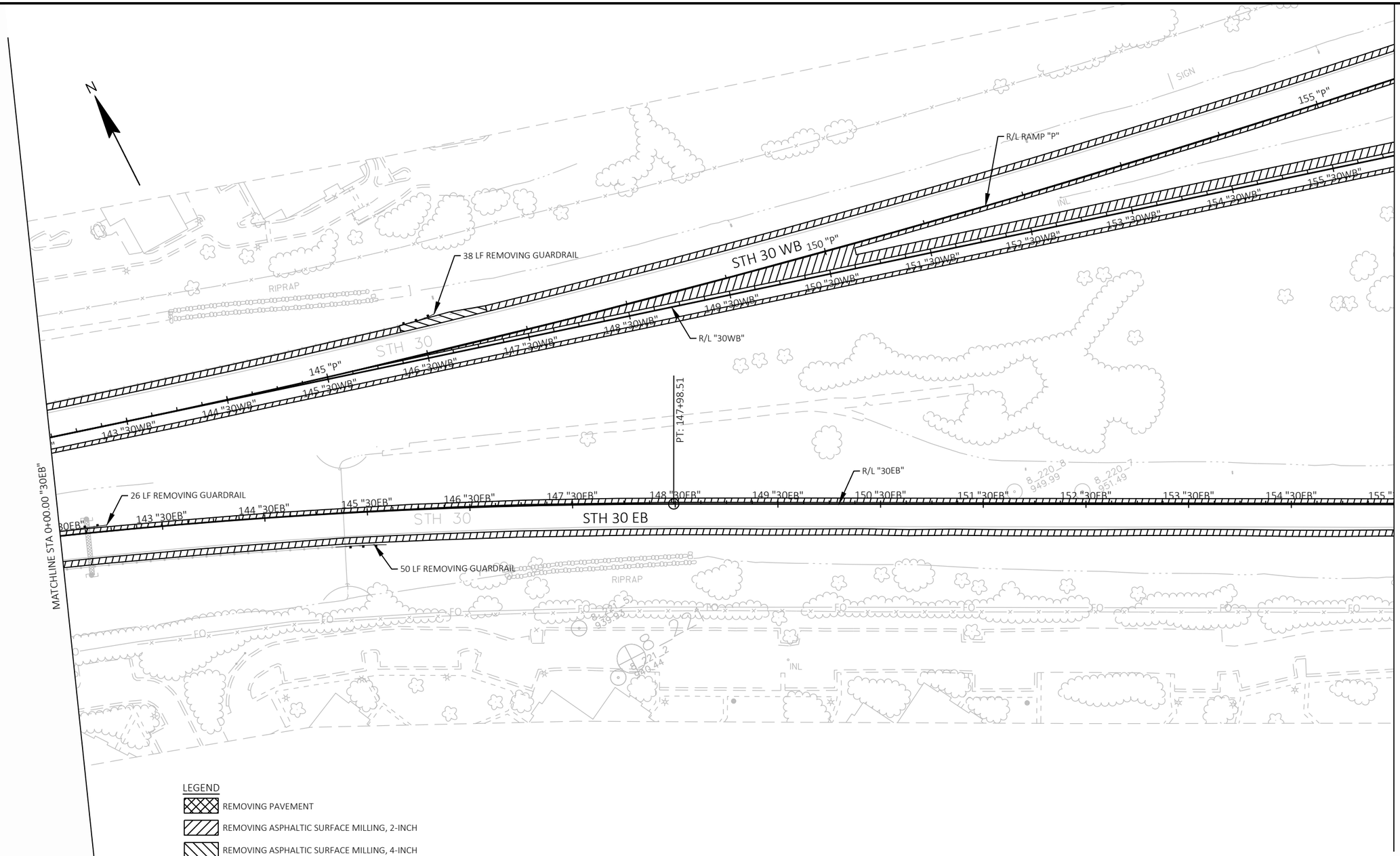
PLOT DATE : 7/31/2021 12:55 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 32	E

2



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 33	E

2

2

STH 30 WB ENTRANCE RAMP

I-90 NB EXIT RAMP

STH 30

156 "30WB" 157 "30WB" 158 "30WB" 159 "30WB" 160 "30WB" 161 "30WB" 162 "30WB" 163 "30WB" 164 "30WB" 165 "30WB" 166 "30WB" 167 "30WB" 168 "30

160 "p"

8_219

8_219_2 974.74

9_229_3 977.80

9_229_6

8_220 8_220_5 957.80 8_220_2 961.11

MATCHLINE STA 0+00.00 "30EB"

PC: 162+68.34

R/L "30EB"

153 LF REMOVING GUARDRAIL

140 LF REMOVING GUARDRAIL

156 "30EB" 157 "30EB" 158 "30EB" 159 "30EB" 160 "30EB" 161 "30EB" 162 "30EB" 163 "30EB" 164 "30EB" 165 "30EB" 166 "30EB" 167 "30EB"

STH 30 STH 30 EB

FO FD

THOMPSON DR

T297 979.860

9_230_3 978.66

9_230_5 977.38

MH

SIGN

8_219_4 984.23

MATCHLINE STA 0+00.00 "30EB"

N

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 34	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 09

PLOT DATE : 7/31/2021 1:00 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 0+00.00 "30EB"

169 "30WB"
170 "30WB"
171 "30WB"
172 "30WB"
173 "30WB"
174 "30WB"
175 "30WB"
176 "30WB"
177 "30WB"
178 "30WB"
179 "30WB"
180 "30WB"

I-90 NB EXIT RAMP

END CONSTRUCTION
STA 178"30WB"+07
MATCH EXISTING

R/L "30WB"

I-90 NB ENTRANCE RAMP

169 "30EB"
170 "30EB"
171 "30EB"
172 "30EB"
173 "30EB"
174 "30EB"
175 "30EB"
176 "30EB"
177 "30EB"
178 "30EB"
179 "30EB"
180 "30EB"
181 "30EB"
182 "30EB"
183

STH 30 EB

R/L "30EB"

138 LF REMOVING GUARDRAIL

STH 30

I-94 EB ENTRANCE RAMP

MOVE SIGN

113 LF REMOVING GUARDRAIL

END PROJECT
STA 179"30EB"+93

I-90 SB ENTRANCE RAMP

I-90 SB

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX SAWING CONCRETE OR SAWING ASPHALT

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 35	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 10

PLOT DATE : 7/31/2021 1:01 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING, 2-INCH
- REMOVING ASPHALTIC SURFACE MILLING, 4-INCH
- REMOVING CONCRETE BARRIER
- REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- SAWING CURB HEAD
- XXXX SAWING CONCRETE OR SAWING ASPHALT

N

BERM
INL
W
W
BERM
BERM
SIGN
W

STH 30 WB ENTRANCE RAMP

R/L RAMP "P"

155 "P" 156 "P" 157 "P" 158 "P" 159 "P" 160 "P" 161 "P" 162 "P" 163 "P" 164 "P" 165 "P" 166 "P" 167 "P" 168 "P" 169 "P"

R/L "30WB"

I-90 NB EXIT RAMP

R/L "30EB"

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	REMOVAL SHEETS	SHEET 36	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021102-RM.DWG
LAYOUT NAME - 11

PLOT DATE : 7/31/2021 1:03 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

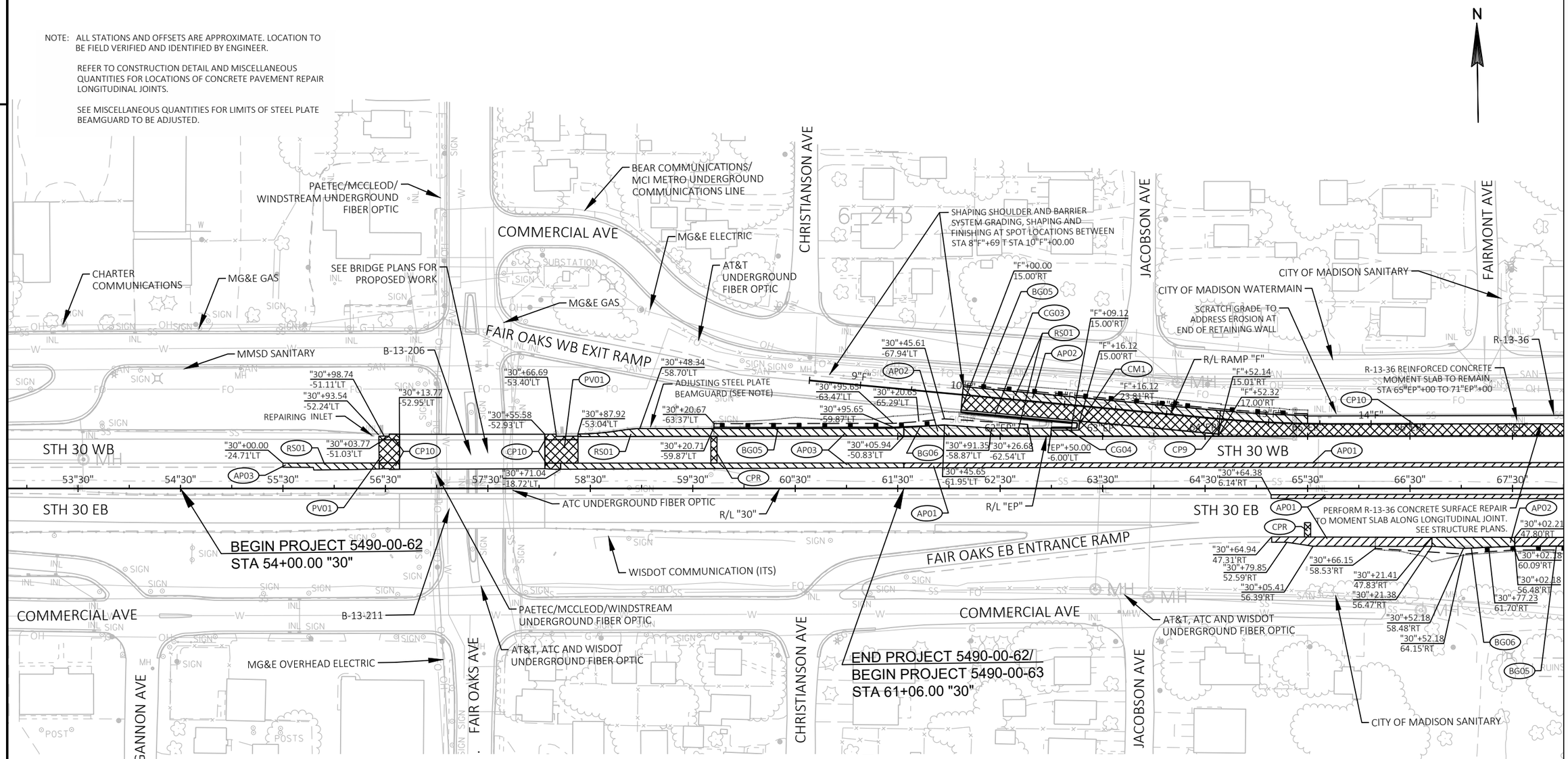
WISDOT/CADDS SHEET 42

2

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH	CB1	CONCRETE BARRIER SINGLE-FACED, HES	CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH	CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G	CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH	CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A	CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
BG01	MGS GUARDRAIL 3	CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D	CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
BG02	MGS GUARDRAIL TERMINAL EAT	CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G	CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
BG03	MGS THRIE BEAM TRANSITION	CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	PV01	CONCRETE PAVEMENT APPROACH SLAB
BG04	MGS GUARDRAIL TERMINAL TYPE 2	CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)	PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
BG05	STEEL PLATE BEAM GUARD CLASS A	CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)	RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL	CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)	RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2				

CONCRETE PAVEMENT REPAIRS
ASPHALT PAVEMENT REPAIRS, 2-INCH
ASPHALT PAVEMENT REPAIRS, 4-INCH

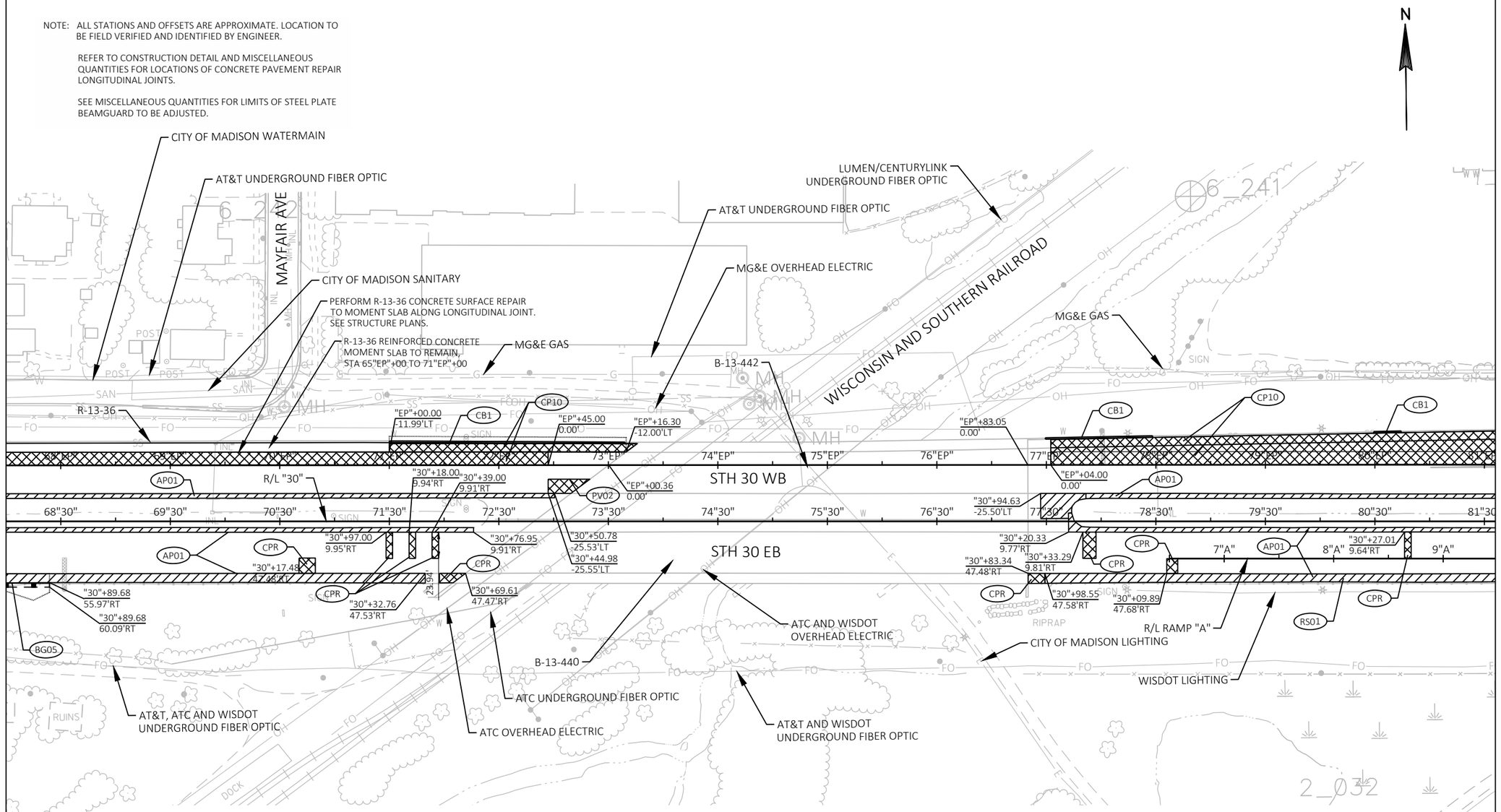
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 37	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD
PLOT DATE : 7/29/2021 10:34 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH	CB1	CONCRETE BARRIER SINGLE-FACED, HES	CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH	CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G	CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH	CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A	CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
BG01	MGS GUARDRAIL 3	CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D	CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
BG02	MGS GUARDRAIL TERMINAL EAT	CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G	CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
BG03	MGS THRIE BEAM TRANSITION	CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	PV01	CONCRETE PAVEMENT APPROACH SLAB
BG04	MGS GUARDRAIL TERMINAL TYPE 2	CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)	PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
BG05	STEEL PLATE BEAM GUARD CLASS A	CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)	RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL	CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)	RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2				

CONCRETE PAVEMENT REPAIRS
ASPHALT PAVEMENT REPAIRS, 2-INCH
ASPHALT PAVEMENT REPAIRS, 4-INCH

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 38	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021202-PD
PLOT DATE : 7/29/2021 10:35 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

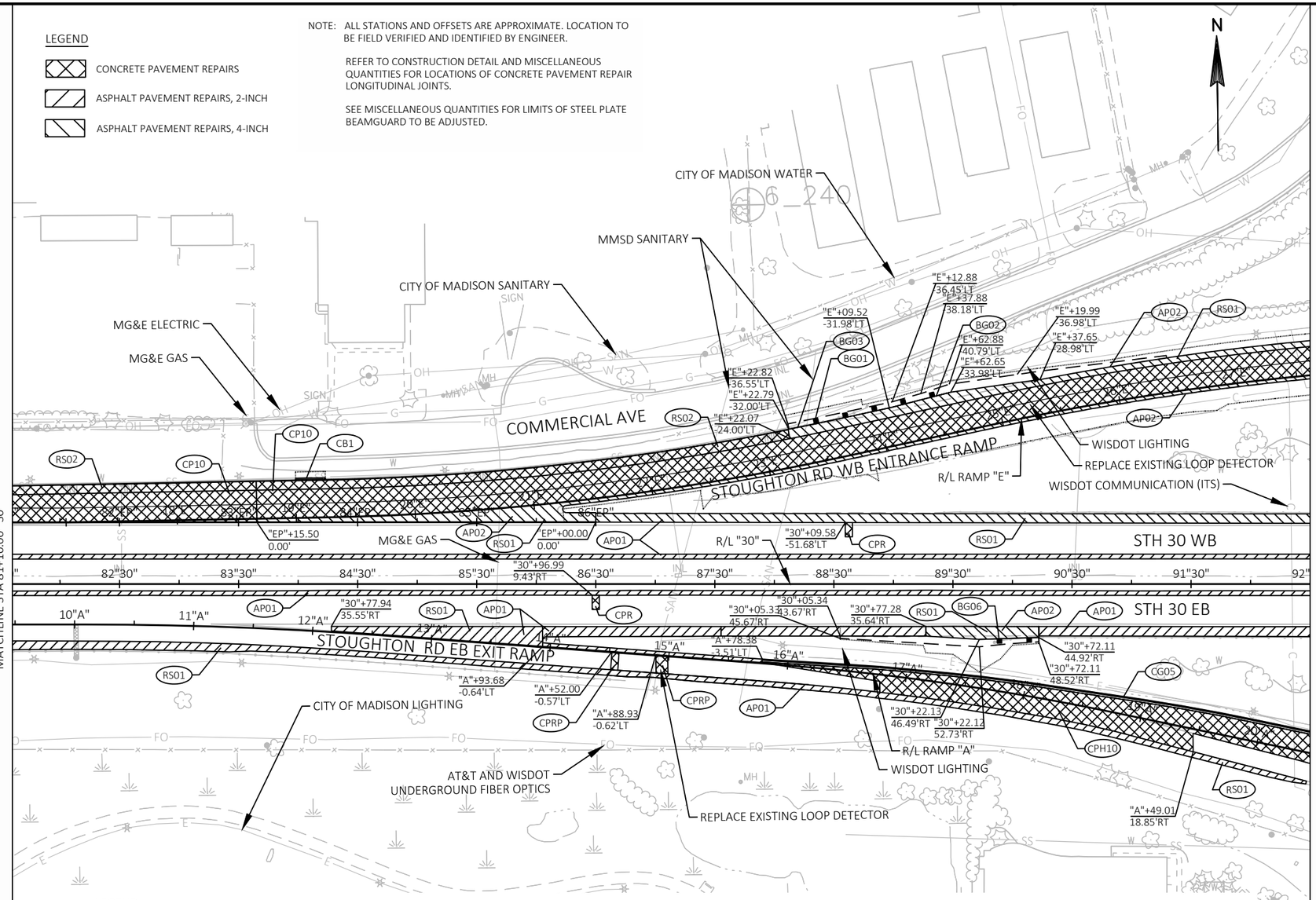
LEGEND

- CONCRETE PAVEMENT REPAIRS
- ASPHALT PAVEMENT REPAIRS, 2-INCH
- ASPHALT PAVEMENT REPAIRS, 4-INCH

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

2

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.

N

MATCHLINE STA 92+00.00 "30"

MATCHLINE STA 106+50.00 "30"

COMMERCIAL AVE

STOUGHTON RD

WISDOT LIGHTING

CITY OF MADISON WATER

CHARTER COMMUNICATIONS UNDERGROUND

REPLACE EXISTING LOOP DETECTOR

MG&E ELECTRIC

MG&E GAS

REPAIRING INLET

"E"+28.70 -56.55'LT

"E"+86.74 -32.39'LT

"E"+45.11 -56.46'LT

"E"+65.50 2.00'RT

"E"+45.02 5.18'RT

"D"+39.50 -24.57'LT

"D"+06.01 -47.65'LT

"D"+71.65 -41.32'LT

"D"+25.91 -3.33'LT

"D"+63.46 -24.39'LT

"D"+67.80 -24.42'LT

"D"+55.22 -30.59'LT

"D"+42.74 -33.04'LT

"D"+58.50 -33.12'LT

"D"+46.03 -21.51'LT

"D"+89.84 -21.57'LT

"D"+17.14 -23.96'LT

"D"+47.14 -24.03'LT

"D"+27.14 -21.47'LT

R/L RAMP "E"

R/L RAMP "D"

STOUGHTON RD WB ENTRANCE RAMP

STOUGHTON RD WB EXIT RAMP

COMMERCIAL AVE

CITY OF MADISON WATERMAIN

WISDOT COMMUNICATION

AMFAM UNDERGROUND FIBER OPTIC

B-13-322

STH 30 WB

STH 30 EB

R/L "30"

"30"+11.78 -50.86'LT

"30"+10.00 -25.16'LT

"30"+78.60 -51.09'LT

"30"+85.46 -3.19'LT

"30"+84.48 9.80'RT

"30"+10.48 35.77'RT

"30"+16.75 9.58'RT

"30"+85.99 36.03'RT

"30"+20.34 -58.40'LT

"30"+70.14 -61.77'LT

"30"+13.59 -58.96'LT

"30"+93.75 36.12'RT

AMFAM UNDERGROUND FIBER OPTIC

WISDOT COMMUNICATION (ITS)

R/L RAMP "A"

R/L RAMP "C"

STOUGHTON RD EB ENTRANCE RAMP

STOUGHTON RD EB EXIT RAMP

"A"+00.13 -18.26'LT

"A"+13.17 -1.06'LT

"A"+18.32 -1.07'LT

"A"+13.95 17.92'RT

"C"+92.50 0.00'

"C"+76.85 23.91'RT

"C"+41.61 24.05'RT

REPLACE EXISTING LOOP DETECTOR

WISDOT LIGHTING

WISDOT COMMUNICATION (ITS)

WINDSTREAM UNDERGROUND FIBER OPTIC

AT&T AND WISDOT UNDERGROUND FIBER OPTIC

PAETEC/WINDSTREAM/ MCCLEOD OVERHEAD FIBER OPTIC

LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

CONCRETE PAVEMENT REPAIRS

ASPHALT PAVEMENT REPAIRS, 2-INCH

ASPHALT PAVEMENT REPAIRS, 4-INCH

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 40	E

2

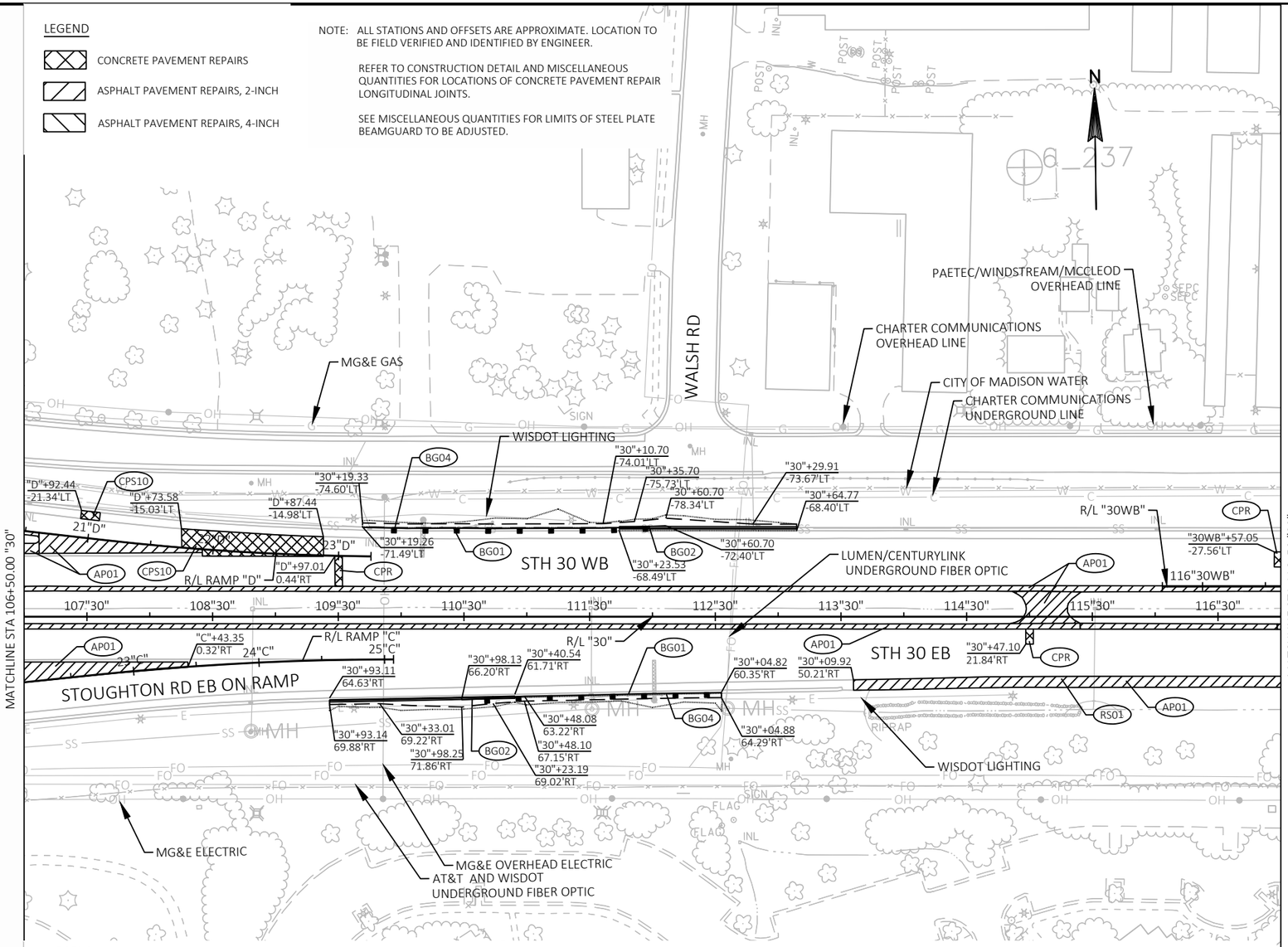
LEGEND

- CONCRETE PAVEMENT REPAIRS
- ASPHALT PAVEMENT REPAIRS, 2-INCH
- ASPHALT PAVEMENT REPAIRS, 4-INCH

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

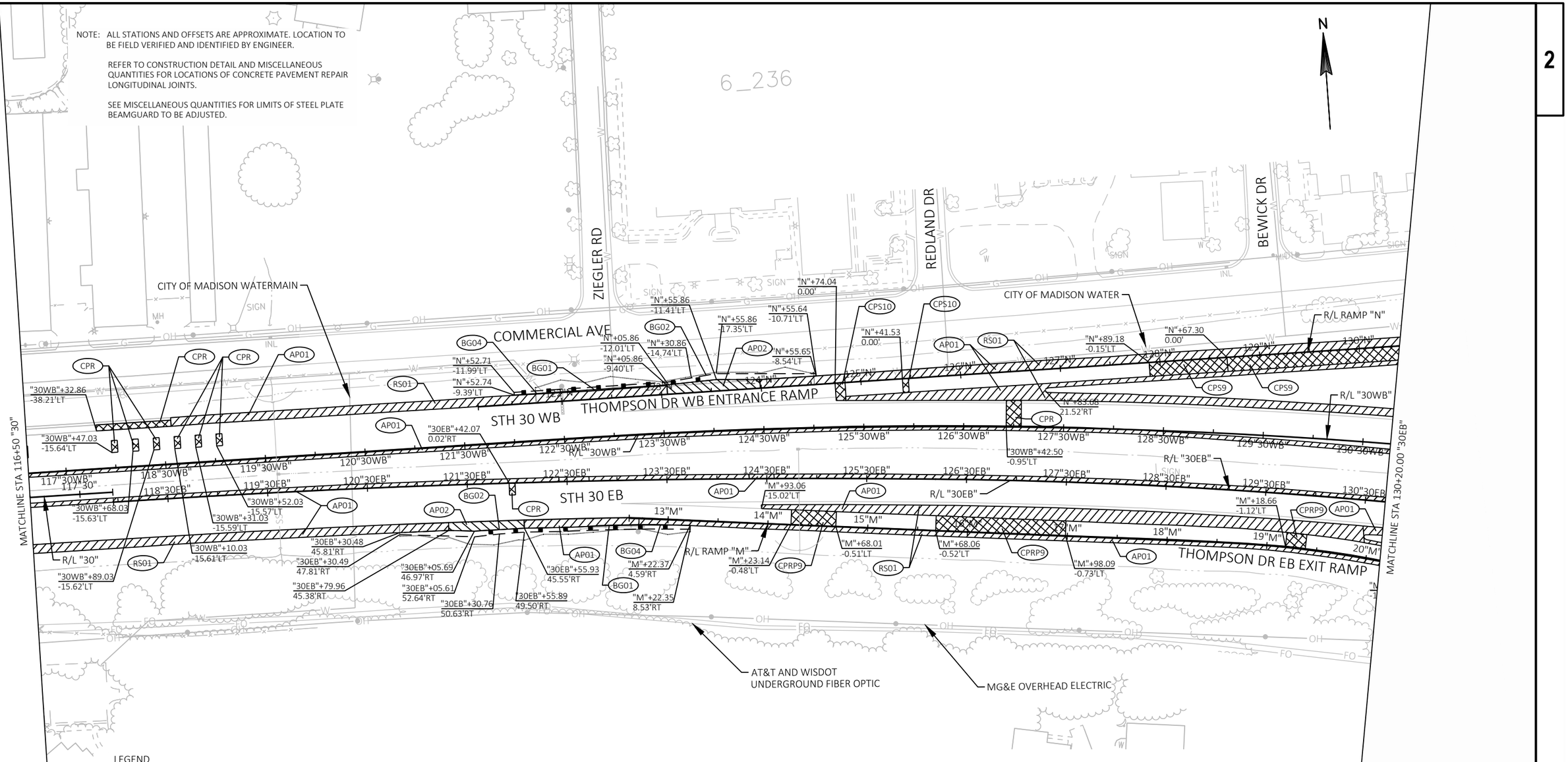
AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

2

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH	CB1	CONCRETE BARRIER SINGLE-FACED, HES	CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH	CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G	CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH	CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A	CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
BG01	MGS GUARDRAIL 3	CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D	CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
BG02	MGS GUARDRAIL TERMINAL EAT	CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G	CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
BG03	MGS THRIE BEAM TRANSITION	CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	PV01	CONCRETE PAVEMENT APPROACH SLAB
BG04	MGS GUARDRAIL TERMINAL TYPE 2	CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)	PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
BG05	STEEL PLATE BEAM GUARD CLASS A	CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)	RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL	CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)	RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2				

CONCRETE PAVEMENT REPAIRS

ASPHALT PAVEMENT REPAIRS, 2-INCH

ASPHALT PAVEMENT REPAIRS, 4-INCH

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 42	E

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.

LEGEND

- CONCRETE PAVEMENT REPAIRS
- ASPHALT PAVEMENT REPAIRS, 2-INCH
- ASPHALT PAVEMENT REPAIRS, 4-INCH

N

PULLEY DR
CHARTER COMMUNICATIONS OVERHEAD FIBER
CITY OF MADISON WATER
R/L RAMP "N"
COMMERCIAL AVE
"N"+52.13
9.87'LT
"N"+00.87
26.03'RT
MG&E OVERHEAD ELECTRIC
CITY OF MADISON WATERMAIN
THOMPSON DR
B-13-135
"30WB"+89.12
23.56'LT
ADJUSTING STEEL PLATE BEAMGUARD (SEE NOTE)
"30WB"+21.57
27.23'LT
R/L "30WB"
STH 30 WB
"30WB"+21.39
10.67'RT
"30WB"+05.23
10.77'RT
"30WB"+77.02
18.03'RT
"30WB"+77.02
21.64'RT
"30WB"+27.24
19.89'RT
"30WB"+82.00
15.95'RT
"30WB"+81.98
21.85'RT
"30WB"+96.75
11.37'RT
"30EB"+49.78
0.45'LT
R/L "30EB"
STH 30 EB
ADJUSTING STEEL PLATE BEAMGUARD (SEE NOTE)
"30EB"+19.02
0.05'RT
"30WB"+27.02
25.82'RT
"30EB"+20.02
4.65'LT
"30EB"+61.91
24.86'RT
"30EB"+99.80
34.30'RT
"30EB"+99.80
37.91'RT
"30EB"+74.63
39.60'RT
"30EB"+47.36
25.07'RT
"30EB"+32.35
25.59'RT
"30EB"+58.98
4.66'LT
ADJUSTING STEEL PLATE BEAMGUARD (SEE NOTE)
"30EB"+59.28
33.81'RT
"30EB"+59.28
36.28'RT
"M"+24.87
15.93'LT
"M"+24.77
1.53'LT
"30EB"+10.98
33.84'RT
"30EB"+49.48
36.11'RT
"30EB"+49.43
42.05'RT
B-13-136
"M"+53.14
13'LT
R/L RAMP "M"
MG&E GAS
THOMPSON DR EB EXIT RAMP
MG&E OVERHEAD ELECTRIC
WISDOT COMMUNICATION
CITY OF MADISON/MMSD SANITARY
AT&T AND WISDOT UNDERGROUND FIBER OPTIC
MATCHLINE STA 130+20.00 "30EB"
MATCHLINE STA 142+90.00 "30EB"

LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

2

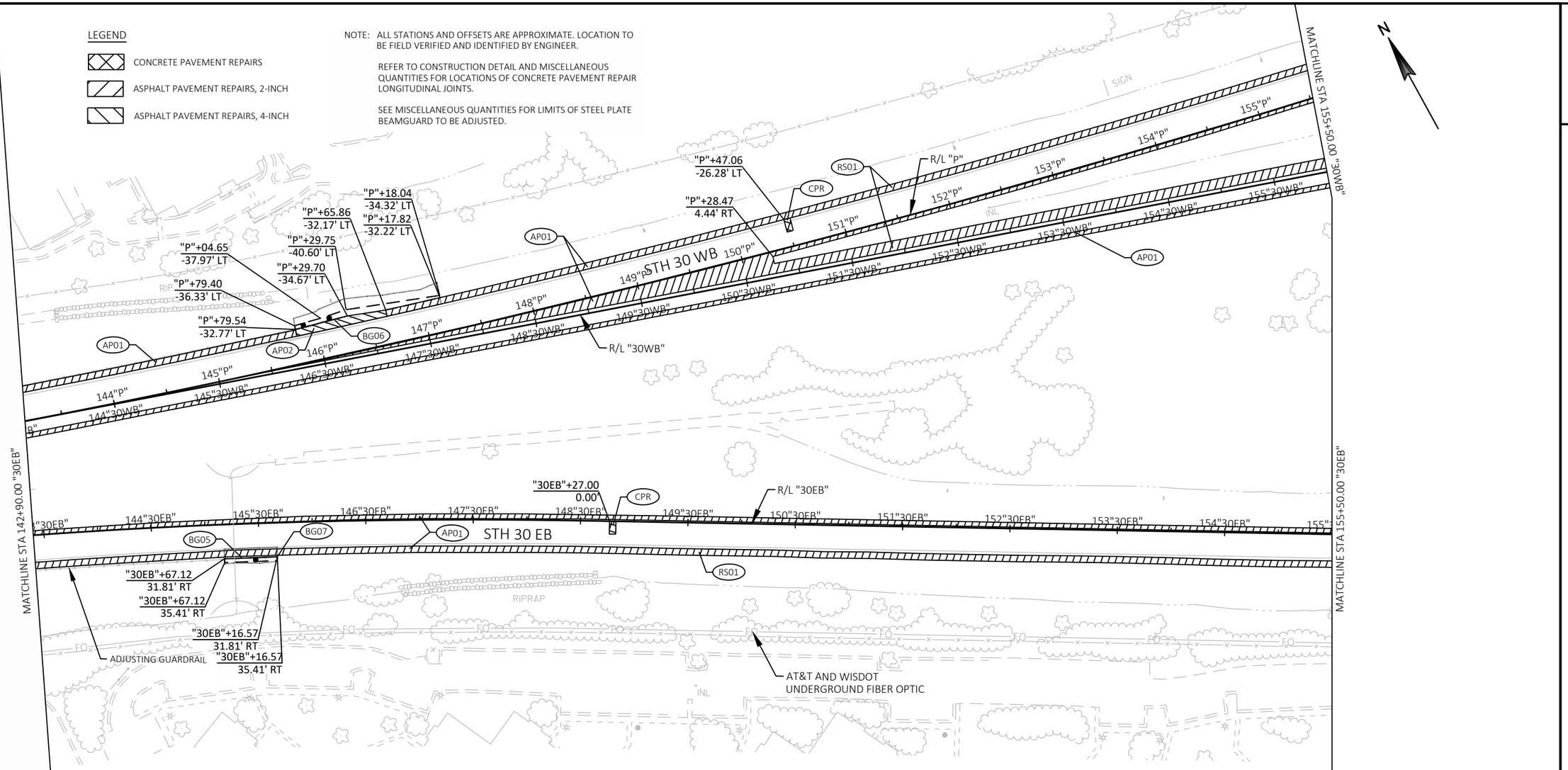
LEGEND

- CONCRETE PAVEMENT REPAIRS
- ASPHALT PAVEMENT REPAIRS, 2-INCH
- ASPHALT PAVEMENT REPAIRS, 4-INCH

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.



LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

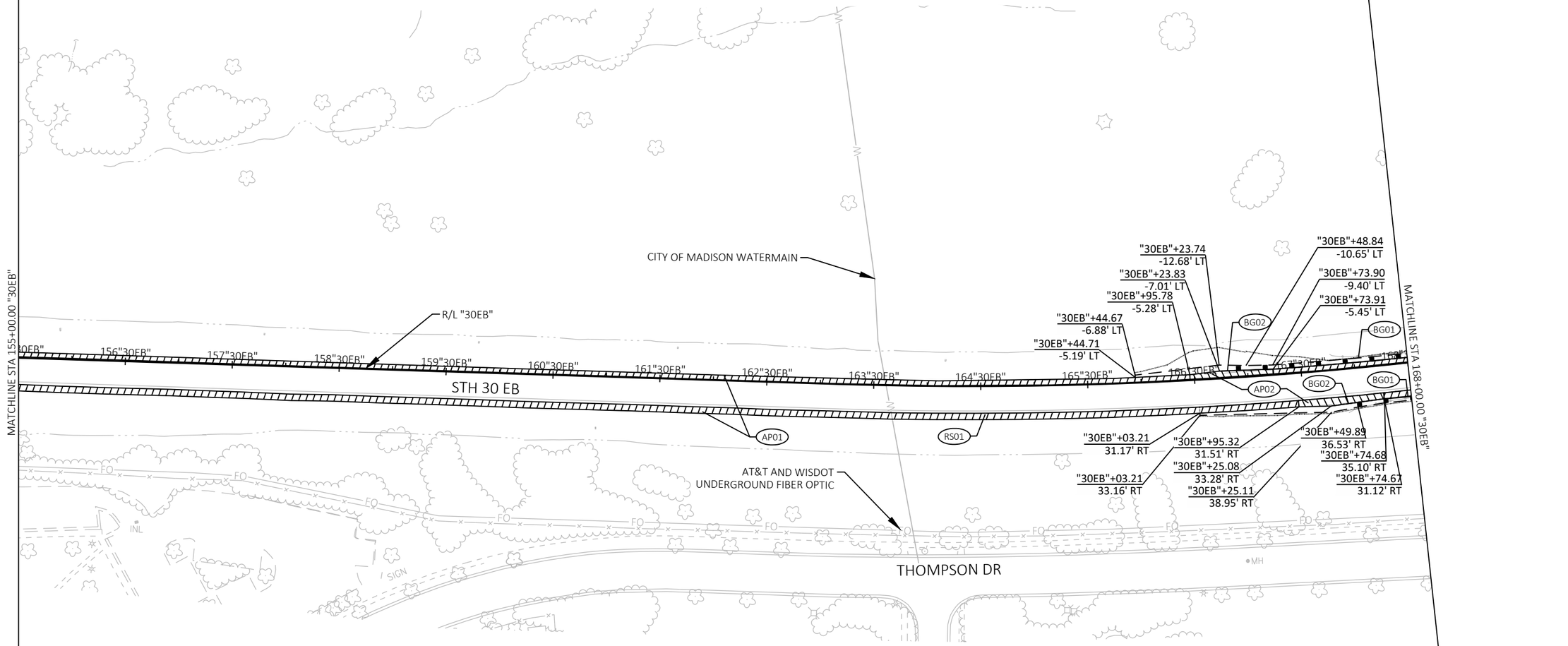
LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH	CB1	CONCRETE BARRIER SINGLE-FACED, HES	CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH	CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G	CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH	CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A	CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
BG01	MGS GUARDRAIL 3	CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D	CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
BG02	MGS GUARDRAIL TERMINAL EAT	CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G	CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
BG03	MGS THRIE BEAM TRANSITION	CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	PV01	CONCRETE PAVEMENT APPROACH SLAB
BG04	MGS GUARDRAIL TERMINAL TYPE 2	CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)	PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
BG05	STEEL PLATE BEAM GUARD CLASS A	CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)	RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL	CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)	RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2				

CONCRETE PAVEMENT REPAIRS

ASPHALT PAVEMENT REPAIRS, 2-INCH

ASPHALT PAVEMENT REPAIRS, 4-INCH



NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.

NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.

N

I-90 NB EXIT RAMP

I-90 NB ENTRANCE RAMP

I-90 SB

STH 30 EB

I-94 EB ENTRANCE RAMP

I-90 SB ENTRANCE RAMP

MATCHLINE STA 168+00.00 "30EB"

"30WB"+07.19
-16.99'LT

R/L "30WB"

"30EB"+18.50
-8.95'LT

"30EB"+18.51
-5.01'LT

R/L "30EB"

"30EB"+15.70
-20.85'LT

"30EB"+65.44
-20.52'LT

"30EB"+66.05
-14.62'LT

"30EB"+32.86
-11.26'LT

"30EB"+83.09
-11.58'LT

"30EB"+83.09
-9.40'LT

"30EB"+04.04
-21.45'LT

"30EB"+04.04
-17.82'LT

"30EB"+14.57
-13.83'LT

"30EB"+16.28
-14.88'LT

"30EB"+17.71
33.27'RT

"30EB"+17.47
37.11'RT

"30EB"+42.61
26.00'RT

"30EB"+03.51
45.31'RT

"30EB"+73.24
31.63'RT

"30EB"+73.24
34.15'RT

"30EB"+34.64
31.40'RT

"30EB"+76.71
34.15'RT

"30EB"+76.71
40.09'RT

"30EB"+24.56
32.15'RT

"30EB"+24.39
35.57'RT

"30EB"+01.71
37.48'RT

"30EB"+09.27
26.47'RT

"30EB"+89.21
32.15'RT

"30EB"+89.21
35.75'RT

END PROJECT 5490-00-63
STA 179+93 "30EB"

MOVE SIGN TO
STA 175+02 "30EB"

WISDOT
COMMUNICATIONS (ITS)

AT&T AND WISDOT
UNDERGROUND FIBER OPTIC

SIGN

BG01 BG04 BG05 BG06 AP01 AP02 RS01

169"30WB" 170"30WB" 171"30WB" 172"30WB" 173"30WB" 174"30WB" 175"30WB" 176"30WB" 177"30WB" 178"30WB" 179"30WB" 180"30WB" 181"30EB" 182"30EB" 170"30EB" 171"30EB" 172"30EB" 173"30EB" 174"30EB" 175"30EB" 176"30EB" 177"30EB" 178"30EB" 179"30EB" 180"30EB"

LEGEND

AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH	CB1	CONCRETE BARRIER SINGLE-FACED, HES	CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH	CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G	CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH	CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A	CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
BG01	MGS GUARDRAIL 3	CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D	CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
BG02	MGS GUARDRAIL TERMINAL EAT	CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G	CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
BG03	MGS THRIE BEAM TRANSITION	CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	PV01	CONCRETE PAVEMENT APPROACH SLAB
BG04	MGS GUARDRAIL TERMINAL TYPE 2	CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)	PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
BG05	STEEL PLATE BEAM GUARD CLASS A	CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)	RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL	CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)	RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2				

CONCRETE PAVEMENT REPAIRS

ASPHALT PAVEMENT REPAIRS, 2-INCH

ASPHALT PAVEMENT REPAIRS, 4-INCH

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 46	E

2

LEGEND

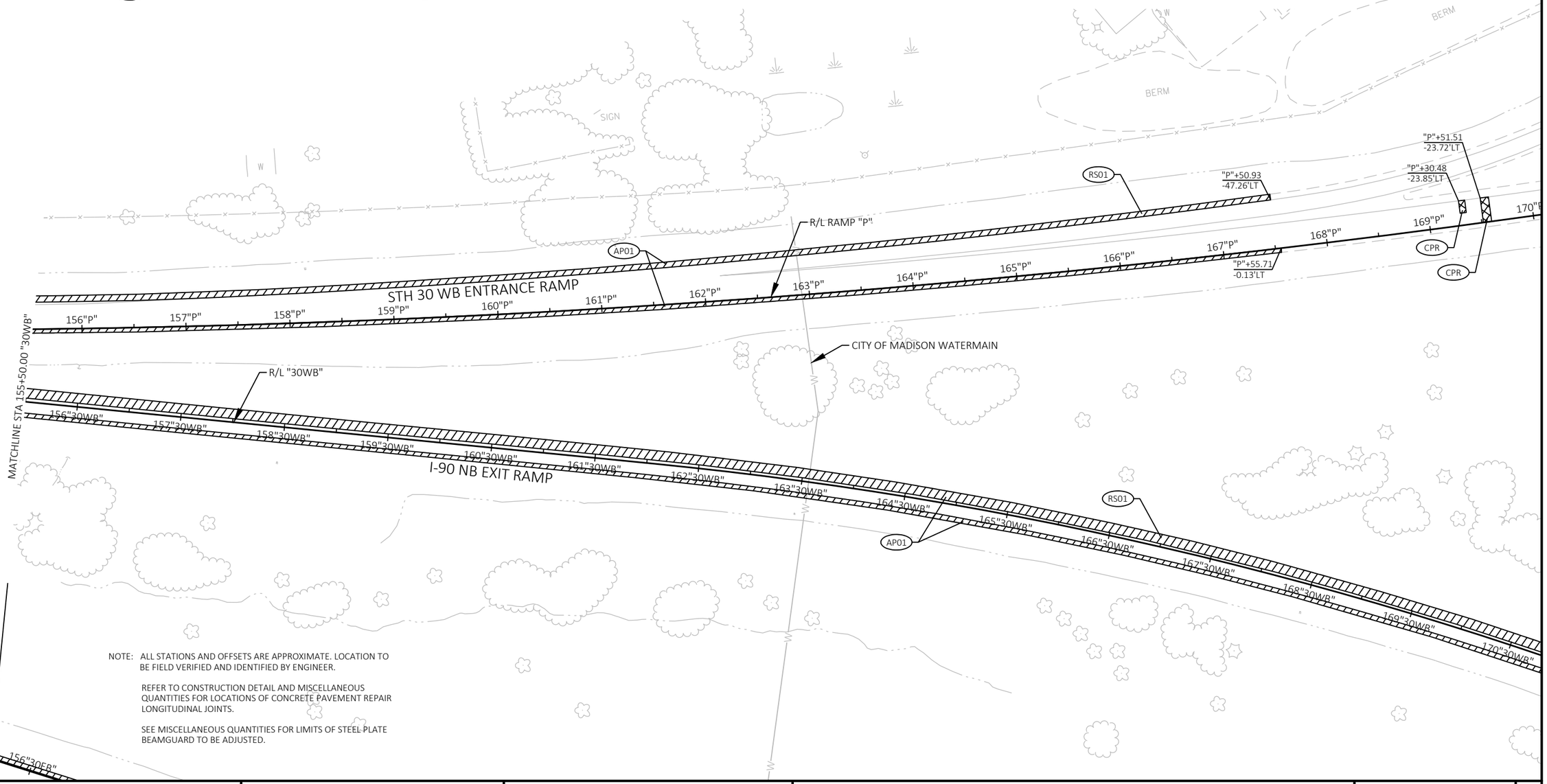
AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH
AP02	HMA PAVEMENT 4 MT 58-28 S, 4-INCH
AP03	HMA PAVEMENT 4 MT 58-28 H, 4-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS THRIE BEAM TRANSITION
BG04	MGS GUARDRAIL TERMINAL TYPE 2
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
BG07	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
CB1	CONCRETE BARRIER SINGLE-FACED, HES
CG02	CONCRETE CURB & GUTTER, 6-INCH SLOPED 30-INCH, TYPE G
CG03	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE A
CG04	CONCRETE CURB & GUTTER, 6-INCH SLOPED 36-INCH, TYPE D
CG05	CONCRETE CURB & GUTTER HES, 6-INCH SLOPED 30-INCH, TYPE G
CM1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP9	CONCRETE PAVEMENT 9-INCH, (DOWELED AND TINED)
CP10	CONCRETE PAVEMENT 10-INCH, (DOWELED AND TINED)
CPH10	CONCRETE PAVEMENT HES 10-INCH, (DOWELED AND TINED)
CPR	CONCRETE PAVEMENT REPAIR OR REPLACEMENT OVERNIGHT, 10-INCH
CPS9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 9-INCH, (DOWELED AND TINED)
CPS10	CONCRETE PAVEMENT REPAIR OR REPLACEMENT SHES 10-INCH, (DOWELED AND TINED)
CPRP	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 10-INCH, (DOWELED AND TINED)
CPRP9	CONCRETE PAVEMENT REPAIR OR REPLACEMENT 9-INCH, (DOWELED AND TINED)
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV02	CONCRETE PAVEMENT APPROACH SLAB SHES
RS01	ASPHALTIC SHOULDER RUMBLE STRIP (CONTINUOUS)
RS02	CONCRETE SHOULDER RUMBLE STRIPS (CONTINUOUS)

CONCRETE PAVEMENT REPAIRS

ASPHALT PAVEMENT REPAIRS, 2-INCH

ASPHALT PAVEMENT REPAIRS, 4-INCH

N



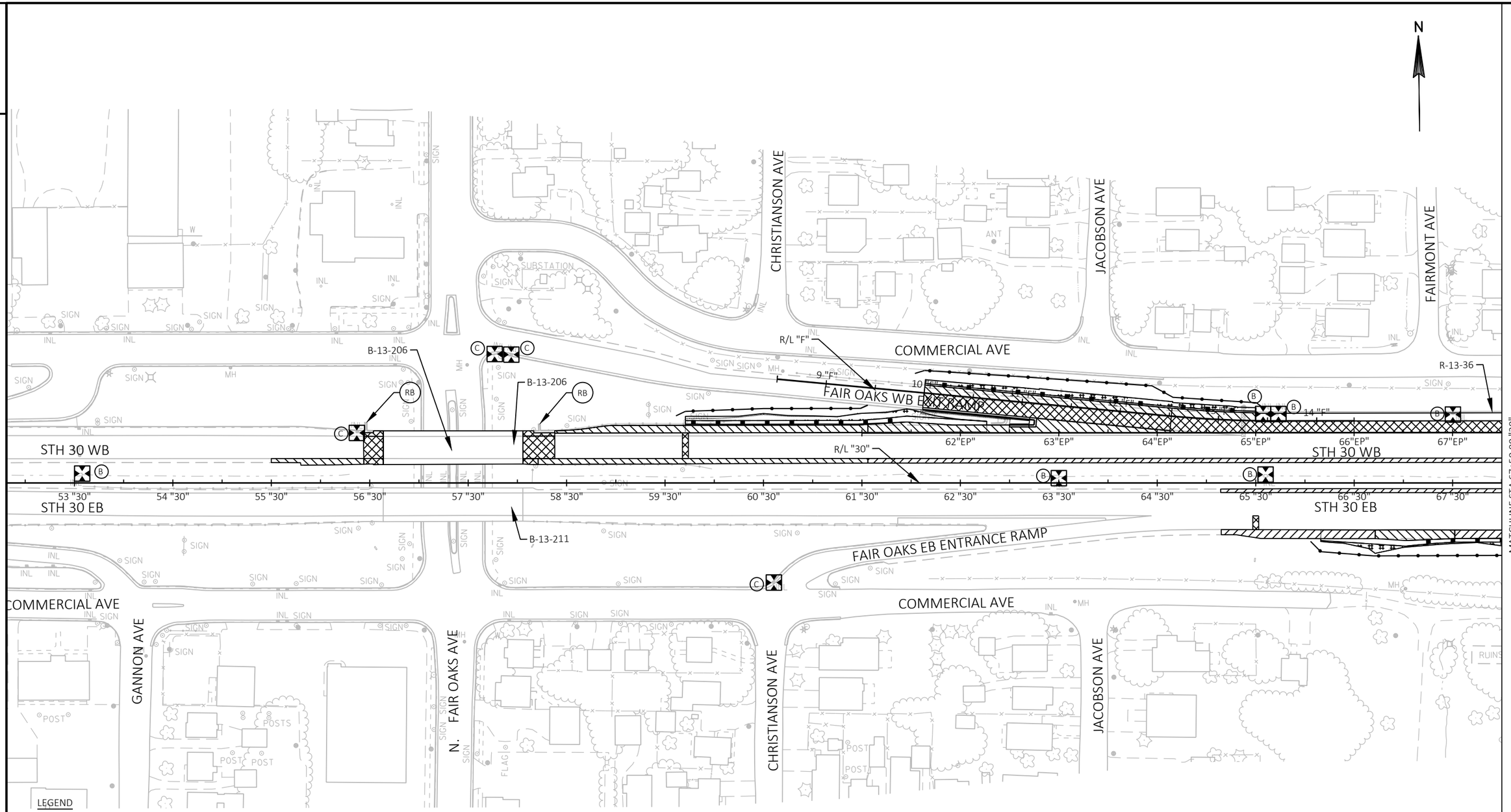
NOTE: ALL STATIONS AND OFFSETS ARE APPROXIMATE. LOCATION TO BE FIELD VERIFIED AND IDENTIFIED BY ENGINEER.

REFER TO CONSTRUCTION DETAIL AND MISCELLANEOUS QUANTITIES FOR LOCATIONS OF CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINTS.

SEE MISCELLANEOUS QUANTITIES FOR LIMITS OF STEEL PLATE BEAMGUARD TO BE ADJUSTED.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN DETAILS	SHEET 47	E

2



LEGEND

- EROSION MAT CLASS I TYPE B
- SILT FENCE
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- (RB) ROCK BAGS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 48	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 1/6/2022 9:54 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MAYFAIR AVE

R-13-36

B-13-442

R/L "E"

R/L "30"

STH 30 WB

STH 30 EB

R/L "A"

B-13-440

MATCHLINE STA 67+50.00 "30"

MATCHLINE STA 81+10.00 "30"

68"EP" 69"EP" 70"EP" 71"EP" 72"EP" 73"EP" 74"EP" 75"EP" 76"EP" 77"EP" 78"EP" 79"EP" 80"EP" 81"EP"

68 "30" 69 "30" 70 "30" 71 "30" 72 "30" 73 "30" 74 "30" 75 "30" 76 "30" 77 "30" 78 "30" 79 "30" 80 "30" 81 "30"

7 "A" 8 "A" 9 "A"

POST POST POST INL INL INL INL MH MH MH W W W W SIGN SIGN SIGN SIGN SIGN RB RB RIPRAP RUINS DOCK

LEGEND

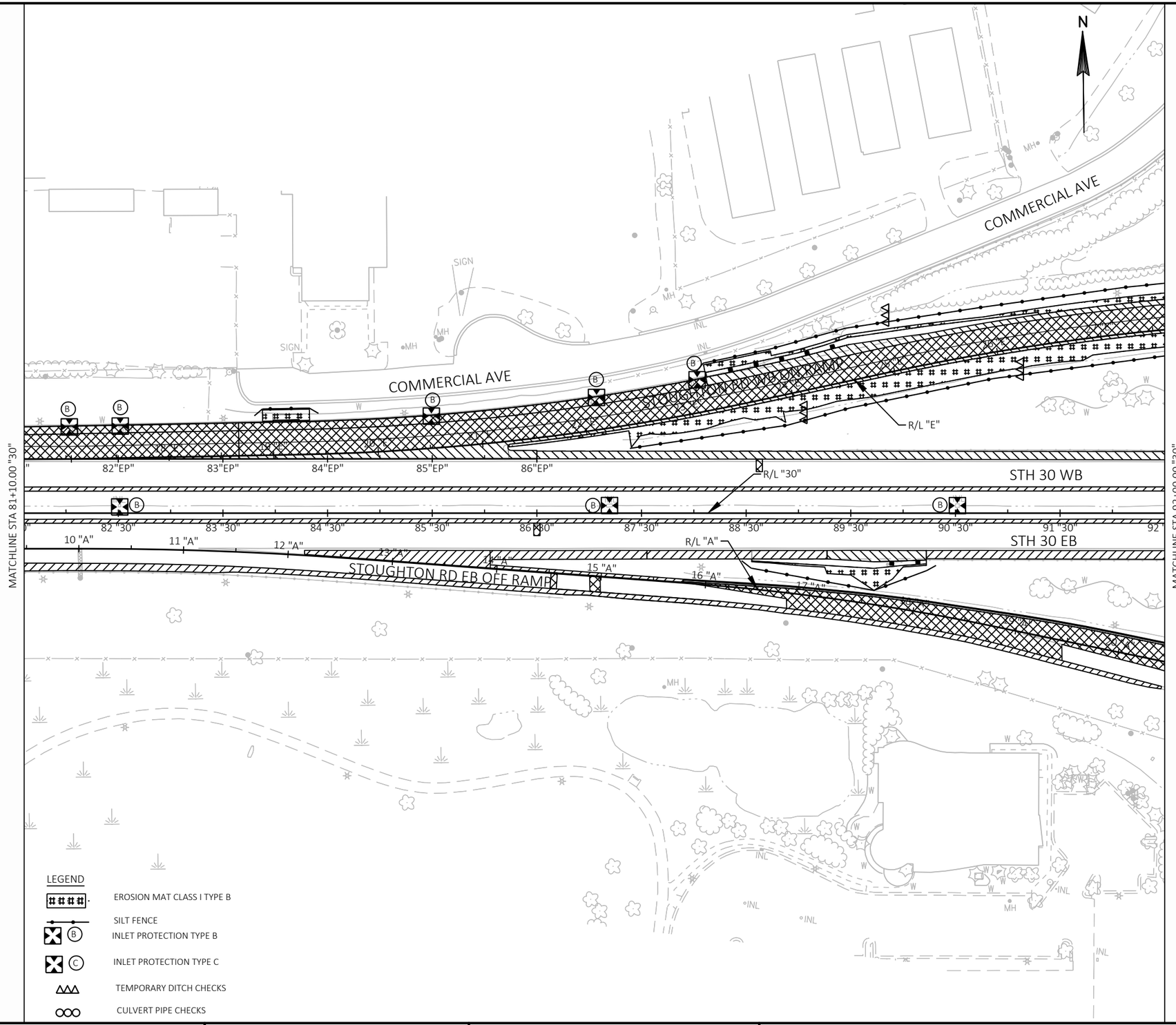
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RB ROCK BAGS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 49	E

FILE NAME : J:\73234\C3D\S4900063\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 1/6/2022 9:54 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 1/6/2022 9:55 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

STOUGHTON RD

STOUGHTON RD WB OFF RAMP

COMMERCIAL AVE

STH 30 WB

STH 30 EB

STOUGHTON RD EB ON RAMP

STOUGHTON RD

MATCHLINE STA 92+00.00 "30"

MATCHLINE STA 106+50.00 "30"

30 "E"

R/L "E"

9 "D"

R/L "D"

10 "D"

11 "D"

12 "D"

13 "D"

14 "D"

15 "D"

18 "D"

19 "D"

20 "D"

B-13-322

R/L "30"

B-13-323

R/L "A"

22 "A"

11 "C"

12 "C"

13 "C"

14 "C"

15 "C"

16 "C"

17 "C"

18 "C"

19 "C"

20 "C"

21 "C"

22 "C"

LEGEND

- EROSION MAT CLASS I TYPE B
- SILT FENCE
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022004-ec

PLOT DATE : 1/6/2022 9:55 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCHLINE STA 106+50.00 "30"

MATCHLINE STA 116+50 "30"

WALSH RD

STH 30 WB

STH 30 EB

21 "D"

23 "D"

R/L "D"

R/L "30"

R/L "30WB"

116 "30WB"

107 "30" 108 "30" 109 "30" 110 "30" 111 "30" 112 "30" 113 "30" 114 "30" 115 "30" 116 "30"

22 "C" 24 "C" 25 "C"

R/L "C"

RIPRAP

SIGN

FLAG

PLAYGROUND

INL

MH

POST

SEPC

LEGEND

- EROSION MAT CLASS I TYPE B
- SILT FENCE
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 52	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 1/6/2022 9:56 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

COMMERCIAL AVE

ZIEGLER RD

REDLAND DR

BEWICK RD

SIGN

MH

INL

STH 30 WB

STH 30 EB

THOMPSON DR WB ON RAMP

THOMPSON DR EB OFF RAMP

R/L "N"

R/L "30WB"

R/L "30EB"

R/L "30"

R/L "M"

117 "30WB" 117 "30"
118 "30WB" 118 "30EB"
119 "30WB" 119 "30EB"
120 "30WB" 120 "30EB"
121 "30WB" 121 "30EB"
122 "30WB" 122 "30EB"
123 "30WB" 123 "30EB"
124 "30WB" 124 "30EB"
125 "30WB" 125 "30EB"
126 "30WB"
127 "30WB" 127 "30EB"
128 "30WB" 128 "30EB"
129 "30WB" 129 "30EB"
130 "30WB" 130 "30EB"

122 "N"
123 "N"
124 "N"
125 "N"
126 "N"
127 "N"
128 "N"
129 "N"
130 "N"

13 "M"
14 "M"
15 "M"
16 "M"
17 "M"
18 "M"
19 "M"
20 "M"

MATCHLINE STA 116+50 "30"

MATCHLINE STA 130+20.00 "30EB"

LEGEND

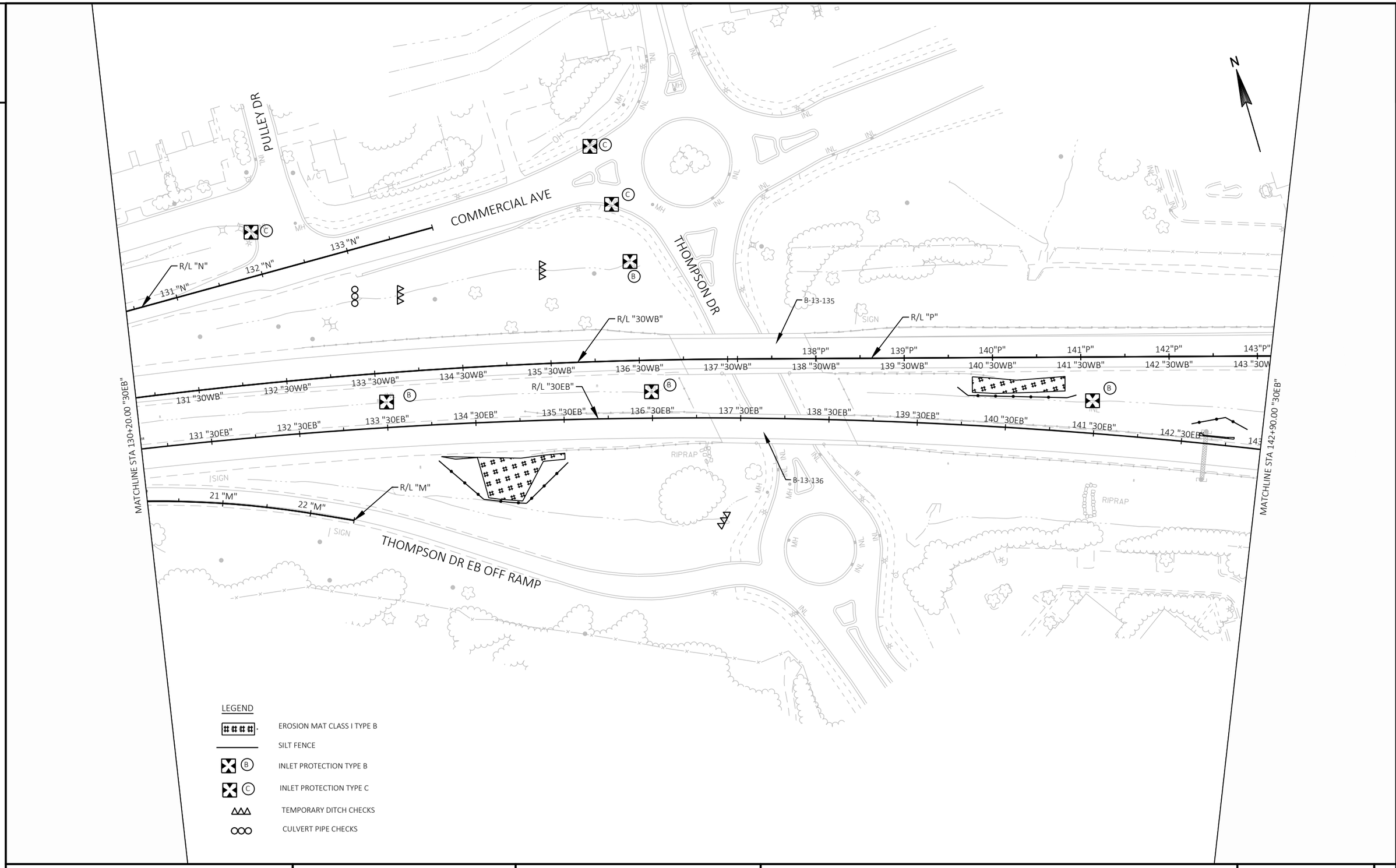
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 53	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022006-EC.DWG
LAYOUT NAME - 022006-ec

PLOT DATE : 1/6/2022 9:57 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

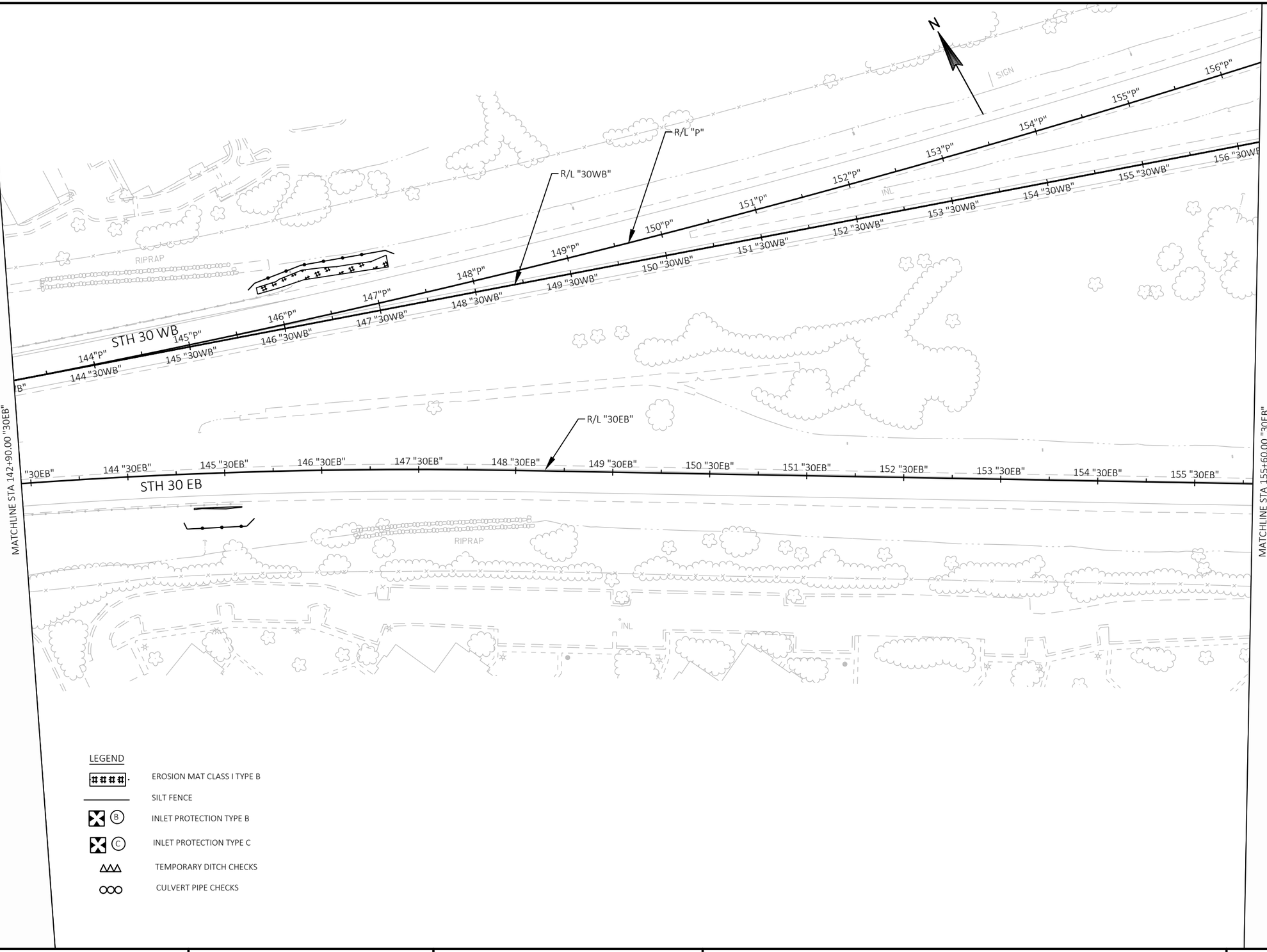
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 54	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022006-EC.DWG
LAYOUT NAME - 022007-ec

PLOT DATE : 1/6/2022 9:57 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- EROSION MAT CLASS I TYPE B
- SILT FENCE
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 55	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022006-EC.DWG
LAYOUT NAME - 022008-ec

PLOT DATE : 1/6/2022 9:58 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

157"P"
158"P"
R/L "P"
R/L "30WB"
157 "30WB"
158 "30WB"
159 "30WB"
160 "30WB"
161 "30WB"
162 "30WB"
163 "30WB"
164 "30WB"
165 "30WB"
166 "30WB"
167 "30WB"
168 "30WB"
I-90 WB ON RAMP
N
MATCHLINE STA 155+60.00 "30EB"
MATCHLINE STA 168+30.00 "30EB"
R/L "30EB"
156 "30EB"
157 "30EB"
158 "30EB"
159 "30EB"
160 "30EB"
161 "30EB"
162 "30EB"
163 "30EB"
164 "30EB"
165 "30EB"
166 "30EB"
167 "30EB"
168 "30EB"
STH 30 EB
INL
I SIGN
MH
THOMPSON DR

LEGEND

- EROSION MAT CLASS I TYPE B
- SILT FENCE
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 56	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022006-EC.DWG
LAYOUT NAME - 022009-ec
PLOT DATE : 1/6/2022 9:59 AM
PLOT BY : CECELIA TICHELAAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE STA 168+30.00 "30EB"

169 "30EB"
170 "30EB"
171 "30EB"
172 "30EB"
173 "30EB"
174 "30EB"
175 "30EB"
176 "30EB"
177 "30EB"
178 "30EB"
179 "30EB"
180 "30EB"
181 "30EB"
182 "30EB"
183 "30EB"

R/L "30EB"

I-94 EB ON RAMP

171 "30WB"
172 "30WB"
173 "30WB"
174 "30WB"
175 "30WB"
176 "30WB"
177 "30WB"
178 "30WB"
179 "30WB"
180 "30WB"

R/L "30WB"

I-90 SB ON RAMP

SIGN

POOL

MH

MH

INL

INL

INL

LEGEND

EROSION MAT CLASS I TYPE B

SILT FENCE

INLET PROTECTION TYPE B

INLET PROTECTION TYPE C

TEMPORARY DITCH CHECKS

CULVERT PIPE CHECKS

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	EROSION CONTROL	SHEET 57	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\022006-EC.DWG
LAYOUT NAME - 022010-ec

PLOT DATE : 1/6/2022 10:00 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

CHRISTIANSON AVE

JACOBSON AVE

FAIRMONT AVE

COMMERCIAL AVE

FAIR OAKS WB EXIT RAMP

R/L "F"

B-13-206

B-13-211

R/L "30"

STH 30 WB

STH 30 EB

FAIR OAKS EB ENTRANCE RAMP

MATCH EXISTING

R-13-36

MATCHLINE STA 67+50.00 "30"

GANNON AVE

N. FAIR OAKS AVE

CHRISTIANSON AVE

JACOBSON AVE

COMMERCIAL AVE

BEGIN 8 54"30"+24

BEGIN 9 53"30"+94

BEGIN 7 53"30"+94

END 8 56"30"+13

END 9 56"30"+13

END 7 56"30"+13

BEGIN 2 56"30"+13

BEGIN 3 56"30"+13

BEGIN 1 56"30"+13

BEGIN 2 10"F"+00

BEGIN 4 10"F"+00

END 2 61"30"+93

BEGIN 4 61"30"+93

END 1 60"30"+56

BEGIN 2 13"F"+24

END 4 13"F"+24

END 2 65"30"+36

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM

PLOT DATE : 1/6/2022 10:02 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MATCHLINE STA 67+50.00 "30"

MATCHLINE STA 82+00.00 "30"

MAYFAIR AVE

STH 30 WB

STH 30 EB

R-13-36

B-13-442

B-13-440

END 2 73"30"+15

BEGIN 2 76"30"+99

R/L "E"

BEGIN 4 15"E"+91

BEGIN 3 16"E"+60

R/L "30"

R/L "A"

MATCH EXISTING

12'

68 "30" 69 "30" 70 "30" 72 "30" 73 "30" 74 "30" 75 "30" 76 "30" 77 "30" 78 "30" 79 "30" 80 "30" 81 "30" 82 "30"

7 "A" 8 "A" 9 "A" 10 "A"

POST POST

INL

MH

SIGN

RIPRAP

RUINS

DOCK

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 59	E

2

MATCHLINE STA 82+00.00 "30"

MATCHLINE STA 96+50.00 "30"

COMMERCIAL AVE

STOUGHTON RD WB ENTRANCE RAMP

STH 30 WB

STH 30 EB

STOUGHTON RD EB EXIT RAMP

STOUGHTON RD

SIGN

MH

INL

W

SLAB

N

END BEGIN
4 1
21"E"+61

MATCH EXISTING

R/L "E"

R/L "30"

R/L "A"

R/L "D"

R/L "C"

B-13-322

B-13-323

BEGIN
1
15"A"+78

BEGIN
2
16"A"+80

BEGIN
4
19"A"+08

END
1
21"A"+10

END
4
21"A"+13

END
3
95"A"+64

12'

15'

25'

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 60	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024503-PM
PLOT DATE : 1/6/2022 10:03 AM
PLOT BY : CECELIA TICHELAAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE STA 96+50.00 "30"

MATCHLINE STA 110+00.00 "30"

STOUGHTON RD WB OFF RAMP

COMMERCIAL AVE

STH 30 WB

STH 30 EB

STOUGHTON RD EB ENTRANCE RAMP

R/L "30"

R/L "D"

R/L "C"

MATCH EXISTING

BEGIN 2 11"D"+06

BEGIN 4 11"D"+04

END 1 11"D"+72

END 4 11"D"+73

BEGIN 2 14"D"+55

BEGIN 3 14"D"+58

BEGIN 1 14"D"+59

END 3 16"D"+38

END 1 17"D"+49

END 2 17"D"+47

BEGIN 2 17"D"+90

END 2 20"D"+27

BEGIN 2 21"D"+74

BEGIN 4 21"D"+75

END 2 22"D"+87

END 4 22"D"+88

12'

12'

25'

15'

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 61	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024504-PM

PLOT DATE : 1/6/2022 1:19 PM

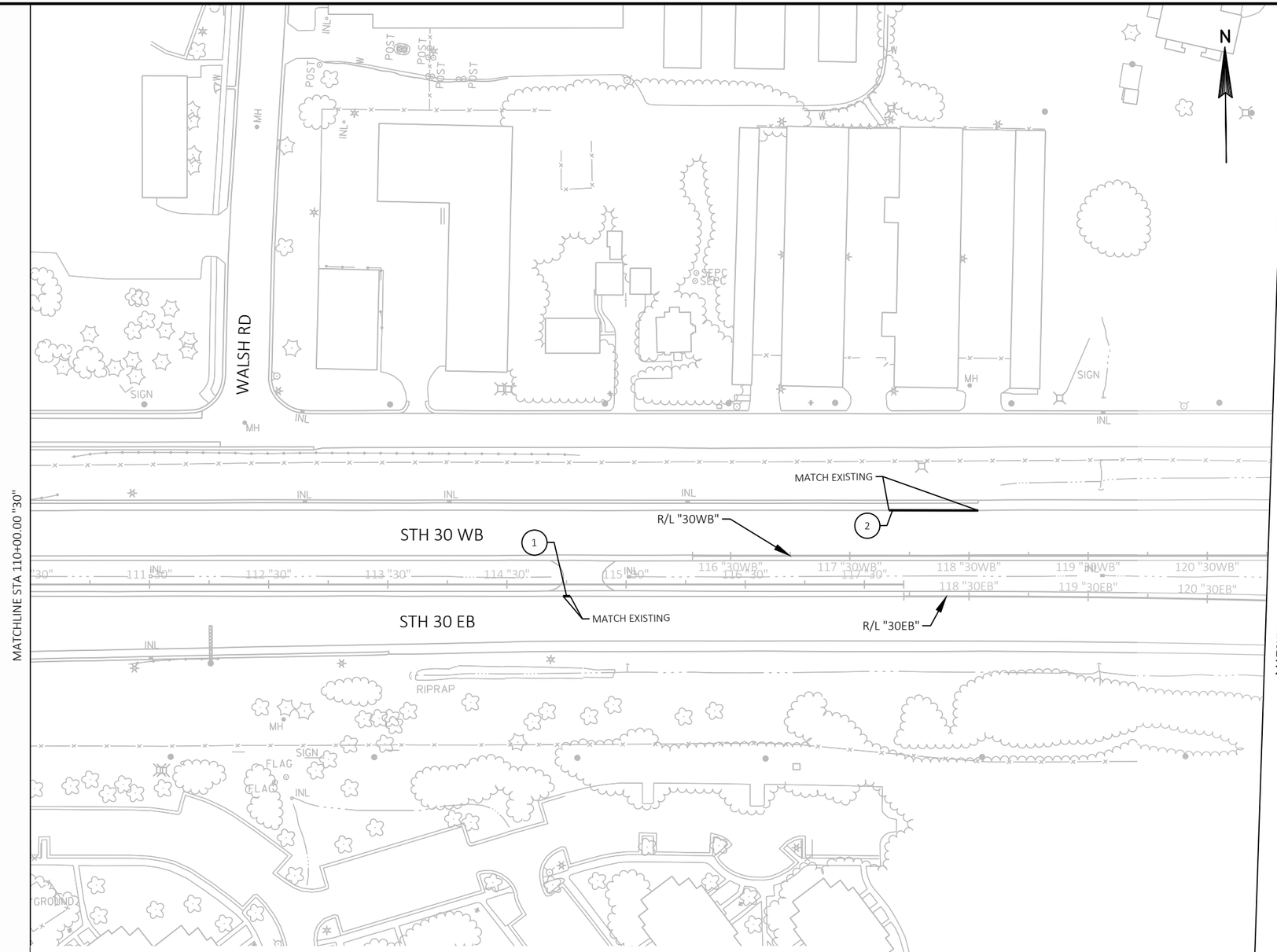
PLOT BY : CECELIA TICHELAAR

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



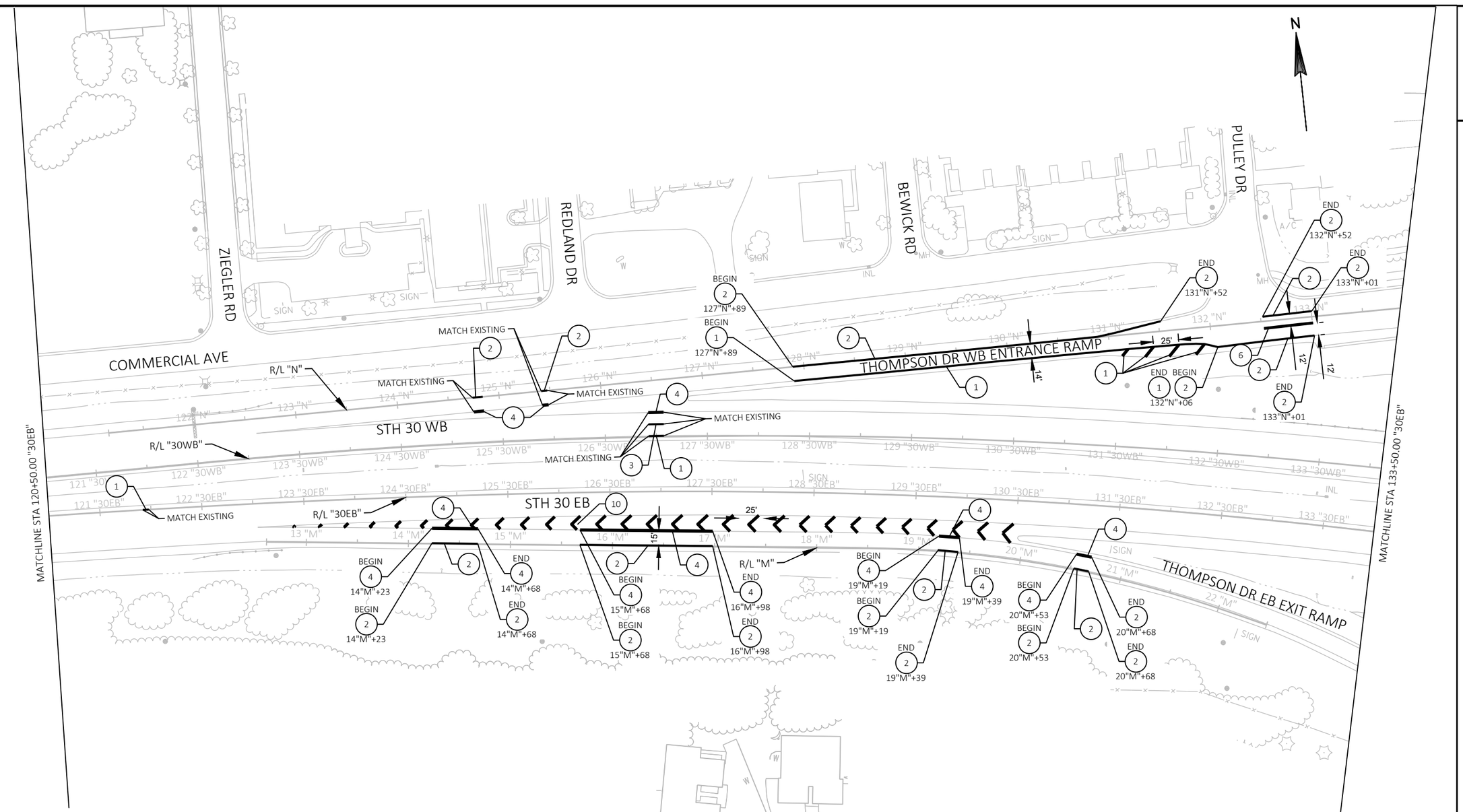
LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 62	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024505-pm
PLOT DATE : 1/6/2022 10:04 AM
PLOT BY : CECELIA TICHELAAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



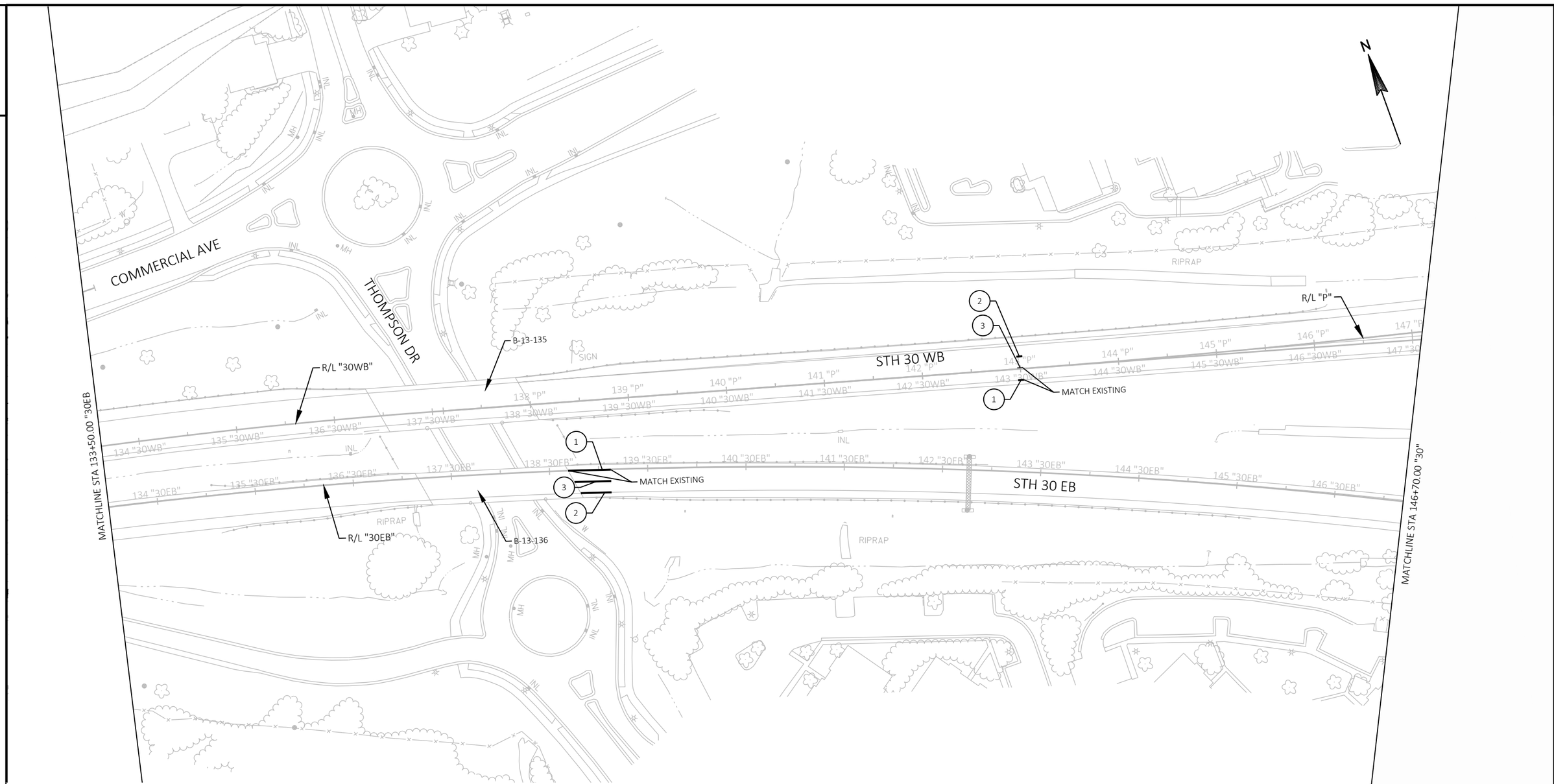
LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 63	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506-PM
PLOT DATE : 1/6/2022 10:05 AM
PLOT BY : CECELIA TICHELAAR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

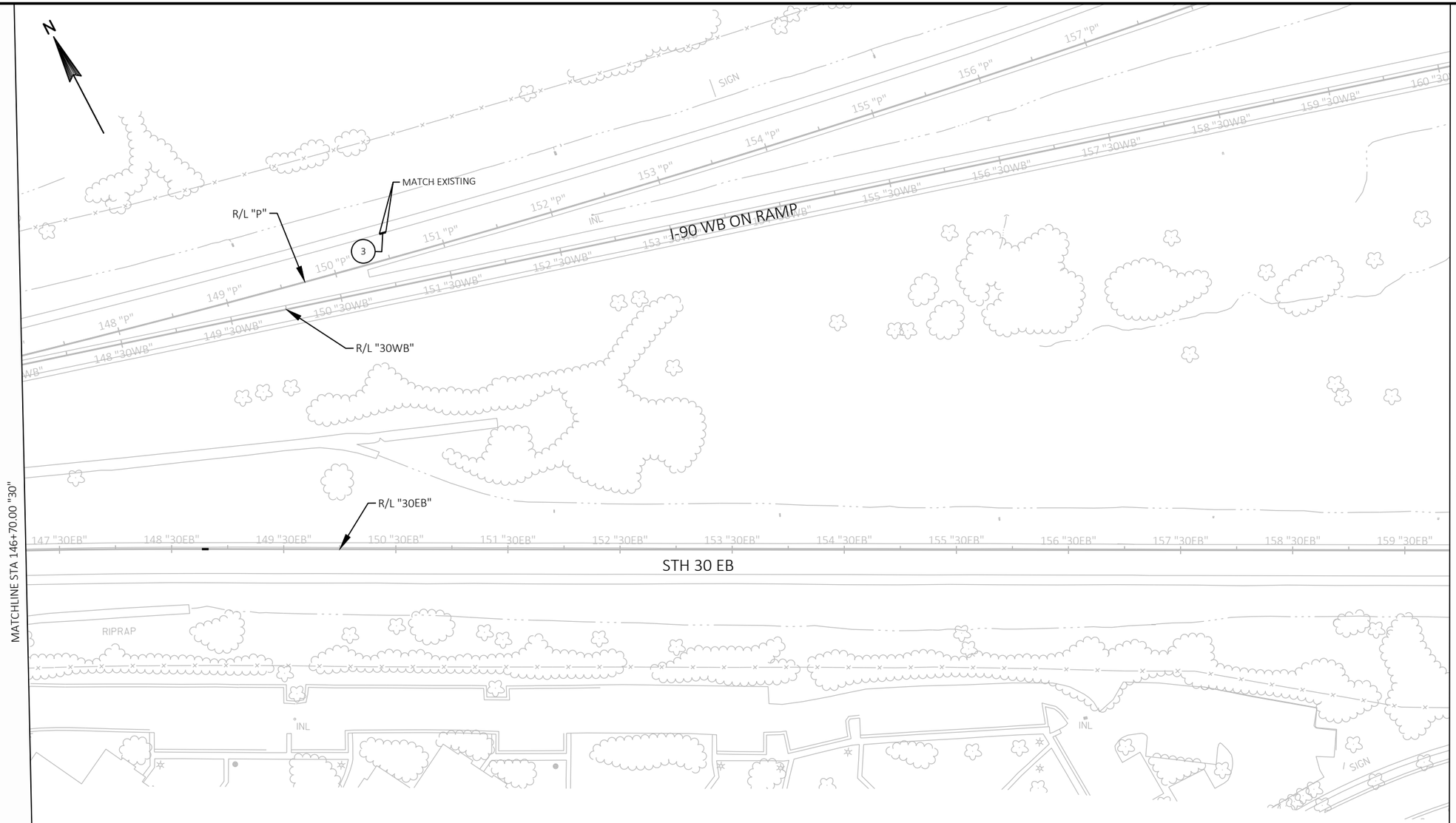
2



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 64	E

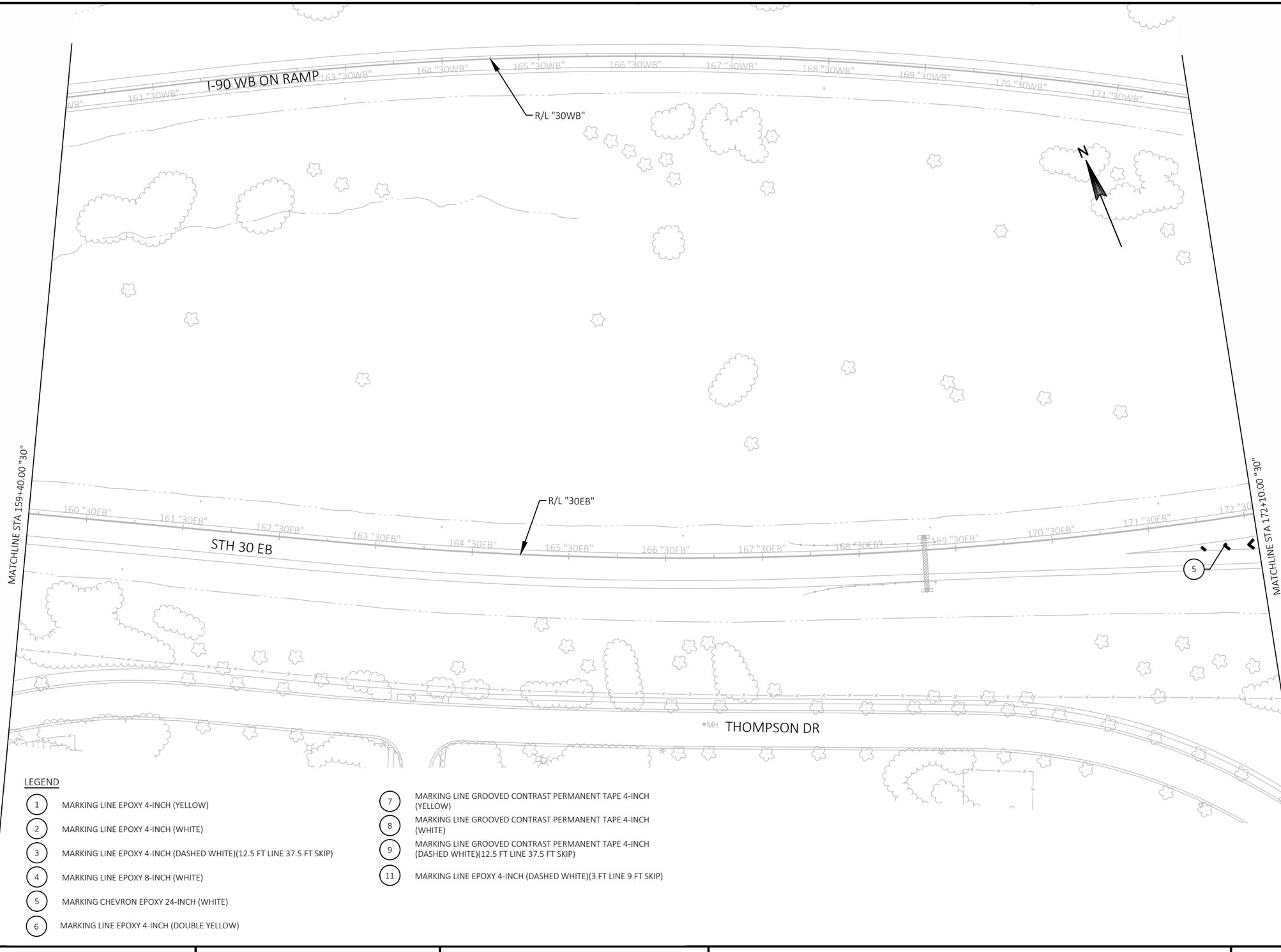


LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 65	E

2



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 66	E

2

2

N

R/L "30WB"

I-90 NB EXIT RAMP

R/L "30EB"

I-94 EB ON RAMP

I-90 SB ON RAMP

MATCHLINE STA 172+10.00 "30"

POOL

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW)

2 MARKING LINE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING CHEVRON EPOXY 24-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

7 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)

8 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)

9 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

11 MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 67	E

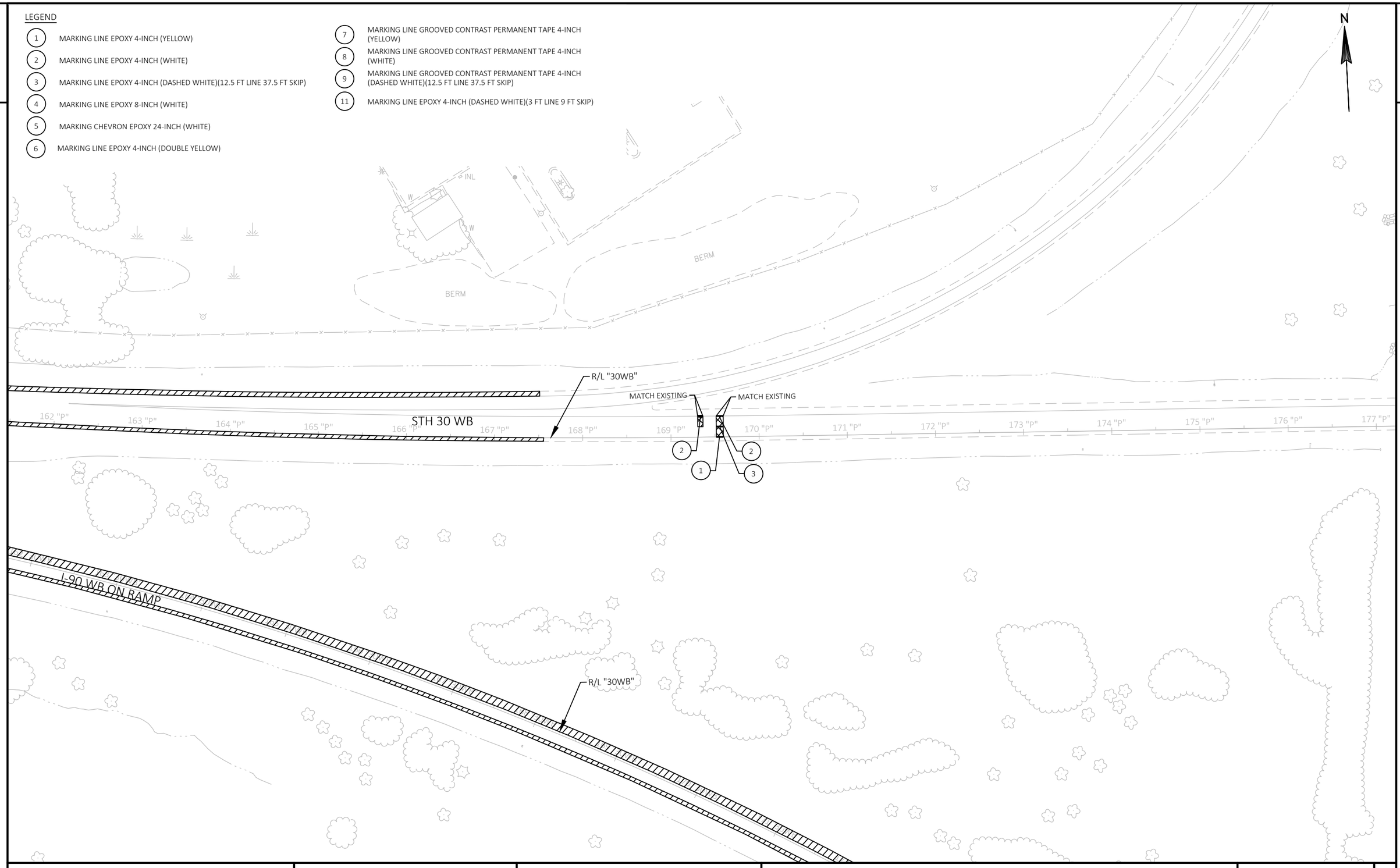
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024510-PM

PLOT DATE : 1/6/2022 1:14 PM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

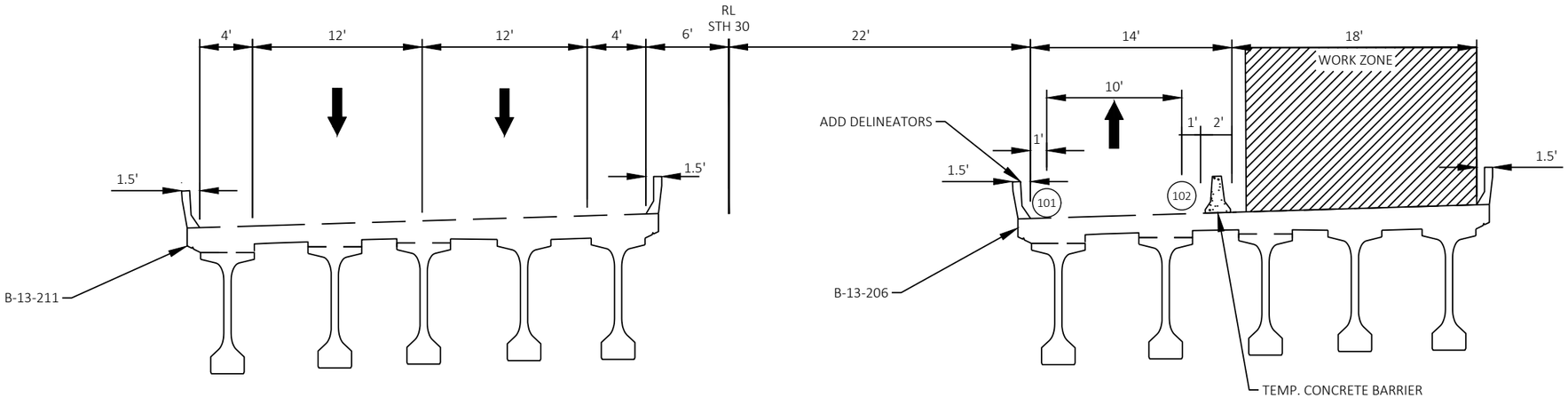
1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
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5. MARKING CHEVRON EPOXY 24-INCH (WHITE)
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7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (YELLOW)
8. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE)
9. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
11. MARKING LINE EPOXY 4-INCH (DASHED WHITE)(3 FT LINE 9 FT SKIP)



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 68	E

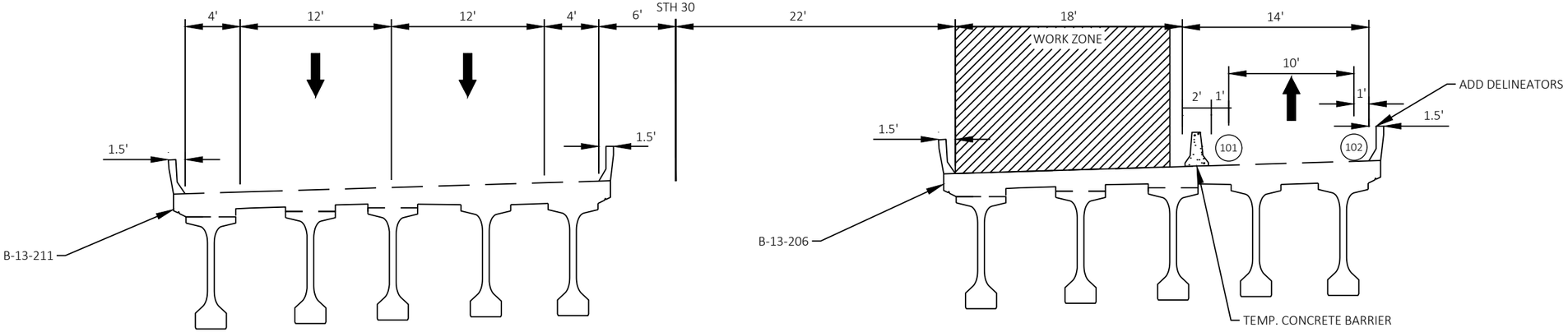
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\024506-PM.DWG
LAYOUT NAME - 024512-PM

PLOT DATE : 1/6/2022 10:15 AM PLOT BY : CECELIA TICHELAAR PLOT NAME : PLOT SCALE : 1 IN:100 FT



STH 30 TRAFFIC - STAGE 1

LOOKING WESTBOUND



STH 30 TRAFFIC - STAGE 2

LOOKING WESTBOUND

LEGEND

(101) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

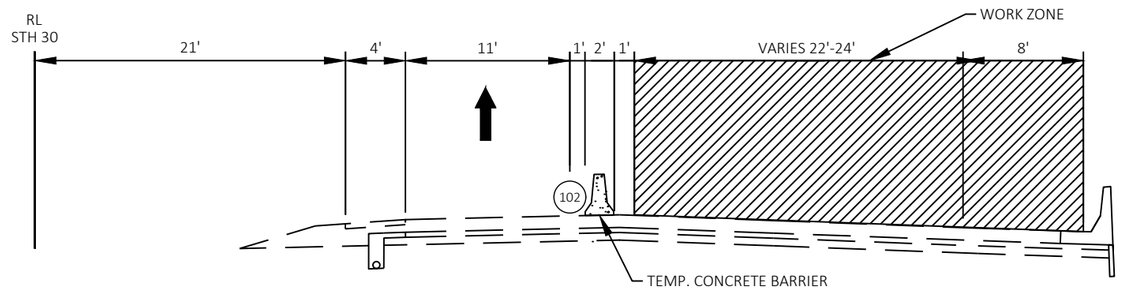
(102) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN: TRAFFIC CONTROL DETAILS TYPICAL SECTIONS	SHEET 69	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025115-TC.DWG
LAYOUT NAME - 025115-tc

PLOT DATE : 7/6/2021 10:49 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

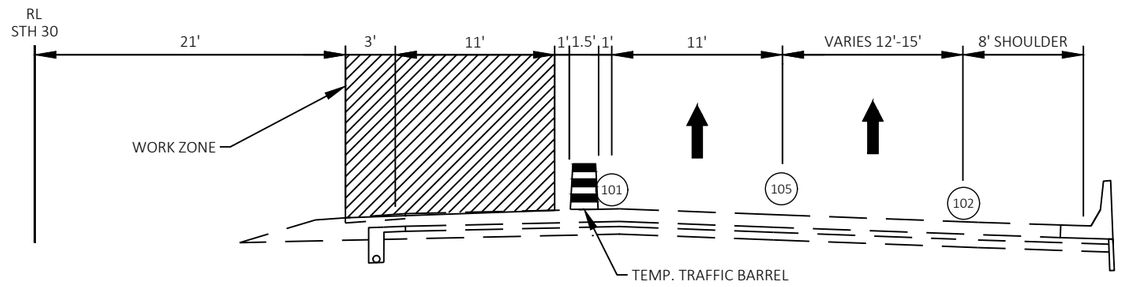
2



WESTBOUND

STH 30 TRAFFIC - STAGE 1

STOUGHTON RD TO FAIR OAKS AVE



WESTBOUND

STH 30 TRAFFIC - STAGE 2

STOUGHTON RD TO FAIR OAKS AVE

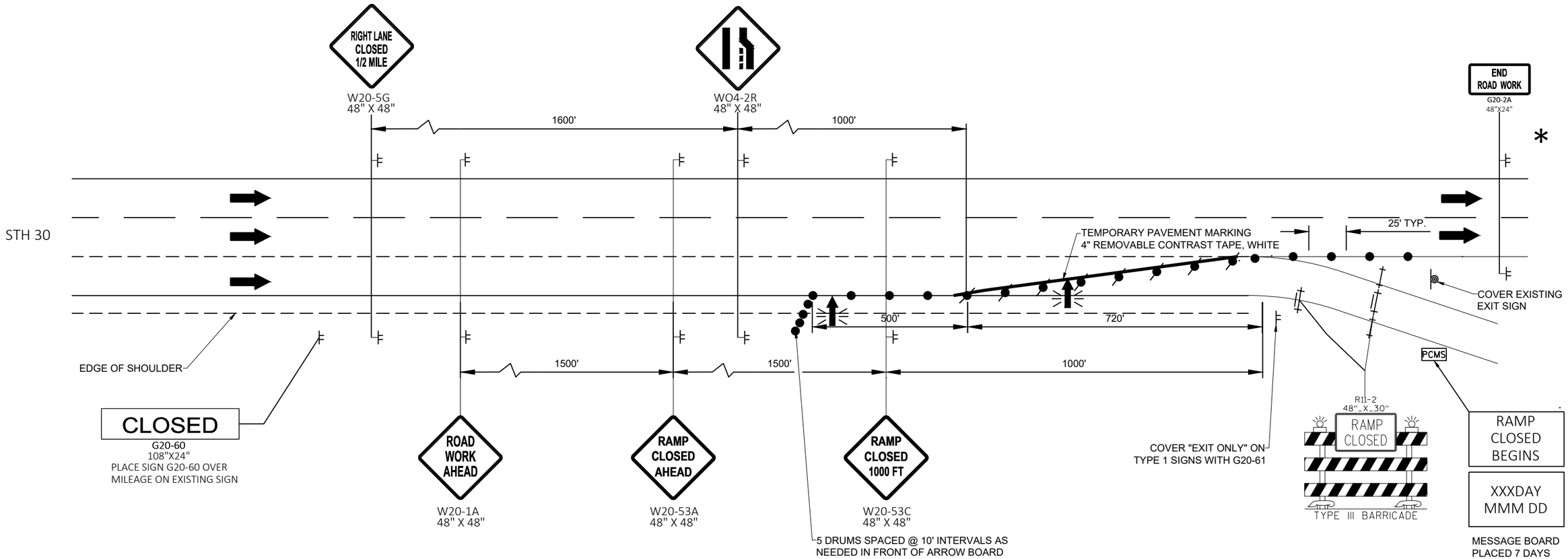
LEGEND

(101) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

(102) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

(105) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 12.5' SKIPS 37.5' GAPS (WHITE)

2



LEGEND

- TYPE III BARRICADE WITH TWO TYPE A LIGHTS
- TYPE III BARRICADE WITH SIGN ATTACHED AND TWO TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- SIGN ON TEMPORARY SUPPORT

NOTES

TRAFFIC CONTROL SHOWN IS FOR TYPICAL OFFRAMP CLOSURE. ADJUST SIGN PLACEMENT AND TRAFFIC CONTROL DEVICES TO FIT THE SITE CONDITIONS AS DIRECTED BY THE ENGINEER.

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

COVER PERMANENT SIGNS IN CONFLICT WITH TRAFFIC CONTROL DEVICES, AS DIRECTED BY THE ENGINEER.

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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE ON PORTABLE SUPPORTS.

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.

PLACE TEMPORARY PAVEMENT MARKINGS, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1A AND G20-21 SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OFFRAMP CLOSURE DETAIL

2

2

LEGEND

- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- WORK ZONE
- TRAFFIC FLOW ARROW
- TC SIGN ON TEMPORARY SUPPORT
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN

N

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

LANE CLOSED
R11-2L
48"X30"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

COMMERCIAL AVE

INL

MH

B-13-206

MIMIC TRAFFIC CONTROL LAYOUT FOR CLOSURE OF THE SIDEWALK ON THE EAST SIDE.
SIDEWALK SHALL ONLY BE CLOSED ON ONE SIDE AT ANY GIVEN TIME.

STH 30 WB

54 "30" 55 "30" 56 "30" 57 "30" 58 "30" 59 "30" 60 "30" 61 "30" R/L "30"

9 "F"

FAIR OAKS WB OFF RAMP

B-13-211

STH 30 EB

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

LANE CLOSED
R11-2L
48"X30"

FAIR OAKS EB ON RAMP

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24" X 12"

GANNON AVE

N. FAIR OAKS AVE

CHRISTIANSON AVE

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - FAIR OAKS AVENUE BRIDGE REPAIRS	SHEET 72	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_FAIR OAKS BRIDGE REPAIR.DWG
LAYOUT NAME - 025421-tc

PLOT DATE : 7/6/2021 10:50 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' WEST OF INTERSECTION

ROAD CLOSED AHEAD
W20-3A
48"X48"
PLACE 500' WEST OF INTERSECTION

ROAD CLOSED AHEAD
W20-3A
48"X48"
PLACE 500' NORTH OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' NORTH OF INTERSECTION

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 500' NORTH OF RIGHT TURN LANE

ROAD CLOSED AHEAD
W20-3A
48"X48"
PLACE 500' EAST OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' EAST OF INTERSECTION

MAINTAIN ACCESS TO DRIVEWAY
THROUGHOUT CLOSURE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEWICK RD

PULLEY DR

COMMERCIAL AVE

COMMERCIAL AVE

THOMPSON DR WB ENTRANCE RAMP

PCMS

PCMS

ROAD CLOSED BEGINS
XXXDAY
MMM
DD
MESSAGE BOARD
PLACED 7 DAYS
PRIOR TO RAMP
CLOSURE

ROAD CLOSED BEGINS
XXXDAY
MMM
DD
MESSAGE BOARD
PLACED 7 DAYS
PRIOR TO RAMP
CLOSURE

STH 30 WB

STH 30 EB

THOMPSON DR

RIGHT LANE
MUST
TURN RIGHT
R3-7R
30"X30"

R3-2
24"X24"

THOMPSON DR EB EXIT RAMP

RIPRAP

RIPRAP

LEGEND

- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- WORK ZONE
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE WITH SIGN

NOTE: MAINTAIN PEDESTRIAN ACCESS THROUGHOUT COMMERCIAL AVE CONSTRUCTION.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL DETAILS - COMMERCIAL AVE INTERSECTION CLOSURE	SHEET 73	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_THOMPSON DR-A.DWG
LAYOUT NAME - 025421-tc

PLOT DATE : 7/6/2021 10:52 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' WEST OF INTERSECTION

RAMP CLOSED AHEAD
W20-53A
48"X48"
PLACE 500' WEST OF INTERSECTION

RAMP CLOSED AHEAD
W20-53A
48"X48"
PLACE 500' NORTH OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' NORTH OF INTERSECTION

RAMP CLOSED AHEAD
W20-53A
48"X48"
PLACE 500' NORTH OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' NORTH OF INTERSECTION

RAMP CLOSED AHEAD
W20-53A
48"X48"
PLACE 500' EAST OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' EAST OF INTERSECTION

RAMP CLOSED BEGINS

XXXDAY
MMM
DD

MESSAGE BOARD PLACED 7 DAYS PRIOR TO RAMP CLOSURE

BEWICK RD

PULLEY DR

COMMERCIAL AVE

COMMERCIAL AVE

THOMPSON DR WB ENTRANCE RAMP

PCMS

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

STH 30 WB

STH 30 EB

THOMPSON DR

THOMPSON DR EB EXIT RAMP

RAMP CLOSED AHEAD
W20-53A
48"X48"
PLACE 500' NORTH OF INTERSECTION

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1000' NORTH OF INTERSECTION

RIPRAP

RIPRAP

LEGEND

- SIGN ON A TEMPORARY SUPPORT
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- WORK ZONE
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE WITH SIGN

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - THOMPSON DR WB ONRAMP CLOSURE	SHEET 74	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_THOMPSON DR - B.DWG
LAYOUT NAME - 025421-tc

PLOT DATE : 7/6/2021 10:53 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A
PLACE 1000' NORTH OF CLOSURE

LANE CLOSED
R11-2L
48"X30"

LEGEND

- SIGN ON A TEMPORARY SUPPORT
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- WORK ZONE
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE WITH SIGN

N

COMMERCIAL AVE

STOUGHTON RD

STOUGHTON RD WB OFF RAMP

COMMERCIAL AVE

STH 30 WB

STH 30 EB

STOUGHTON RD EB ON RAMP

R/L "A"
R/L "C"
R/L "D"
R/L "E"
R/L "30"

11'
12'

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STOUGHTON RD EB ENTRANCE RAMP STAGE 1	SHEET 75	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_STOUGHTON EB ONRAMP.DWG
LAYOUT NAME - 025421-tc

PLOT DATE : 7/6/2021 10:54 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1"=120'

WISDOT/CADDS SHEET 42

2

2

N

LEGEND

- SIGN ON A TEMPORARY SUPPORT
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- WORK ZONE
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE WITH SIGN

ROAD WORK AHEAD
W20-1A
PLACE 1000' NORTH OF CLOSURE

CENTER LANE CLOSED AHEAD
W20-5GA
PLACE 500' NORTH OF CLOSURE

LANE CLOSED
R11-2L
48"X30"

COMMERCIAL AVE

STOUGHTON RD

11'

STOUGHTON RD WB OFF RAMP

R/L "E"

27 "E" 28 "E" 29 "E" 30 "E"

9 "D" 10 "D" 11 "D" 12 "D" 13 "D" 14 "D" 15 "D" 16 "D" 17 "D" 18 "D" 19 "D" 20 "D"

R/L "D"

COMMERCIAL AVE

STH 30 WB

92 "30" 93 "30" 94 "30" 95 "30" 96 "30" 97 "30" 98 "30" 99 "30" 100 "30" 101 "30" 102 "30" 103 "30" 104 "30" 105 "30" 106 "30"

R/L "30"

STH 30 EB

R/L "A"

20 "A" 21 "A" 22 "A"

11 "C" 12 "C" 13 "C" 14 "C" 15 "C" 16 "C" 17 "C" 18 "C" 19 "C" 20 "C" 21 "C" 22 "C"

R/L "C"

STOUGHTON RD EB ON RAMP

12' 17'

T172
859.690

T175
867.070

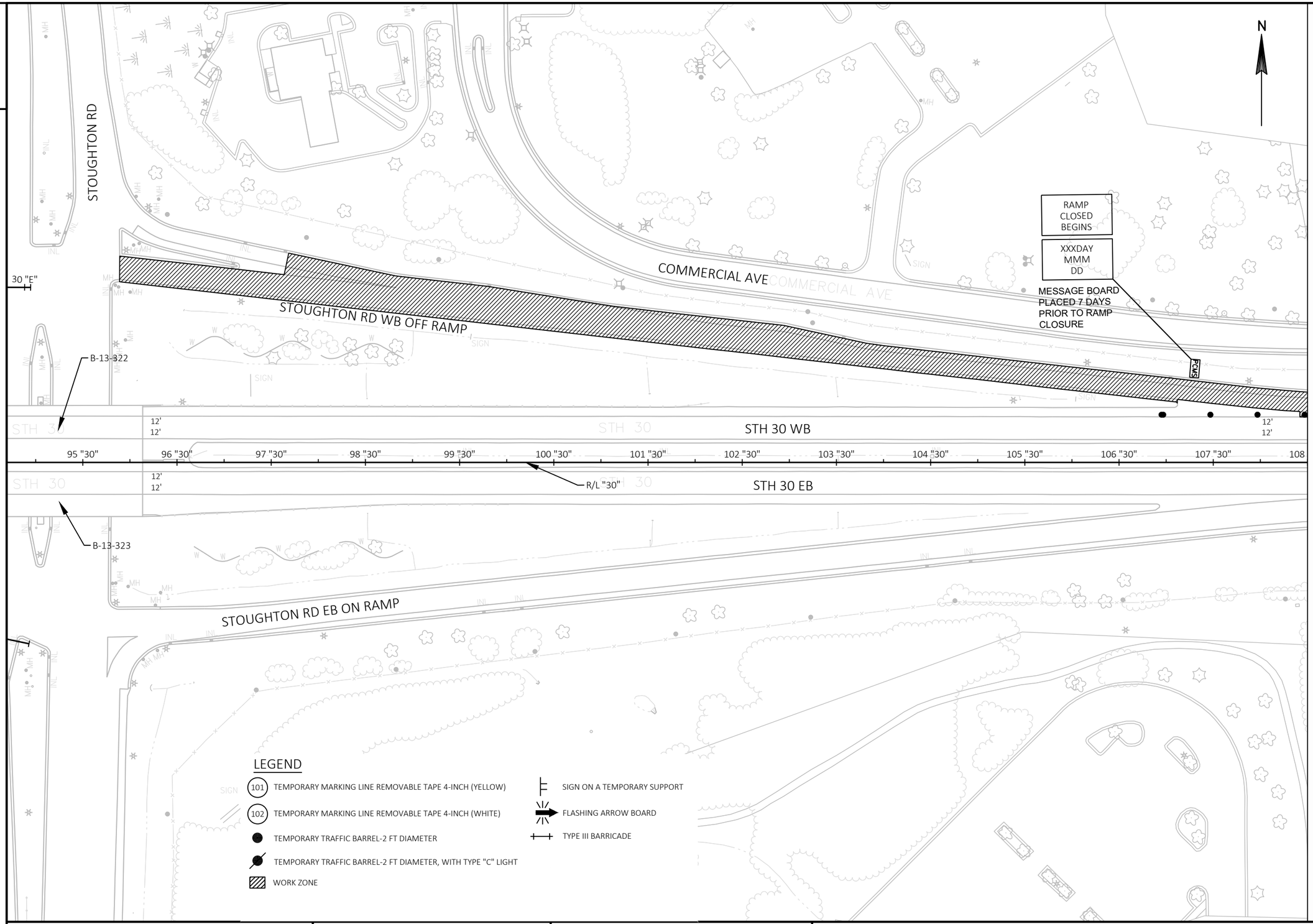
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STOUGHTON RD EB ENTRANCE RAMP STAGE 2	SHEET 76	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_STOUGHTON EB ONRAMP2.DWG
LAYOUT NAME - 025421-tc

PLOT DATE : 7/6/2021 10:55 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

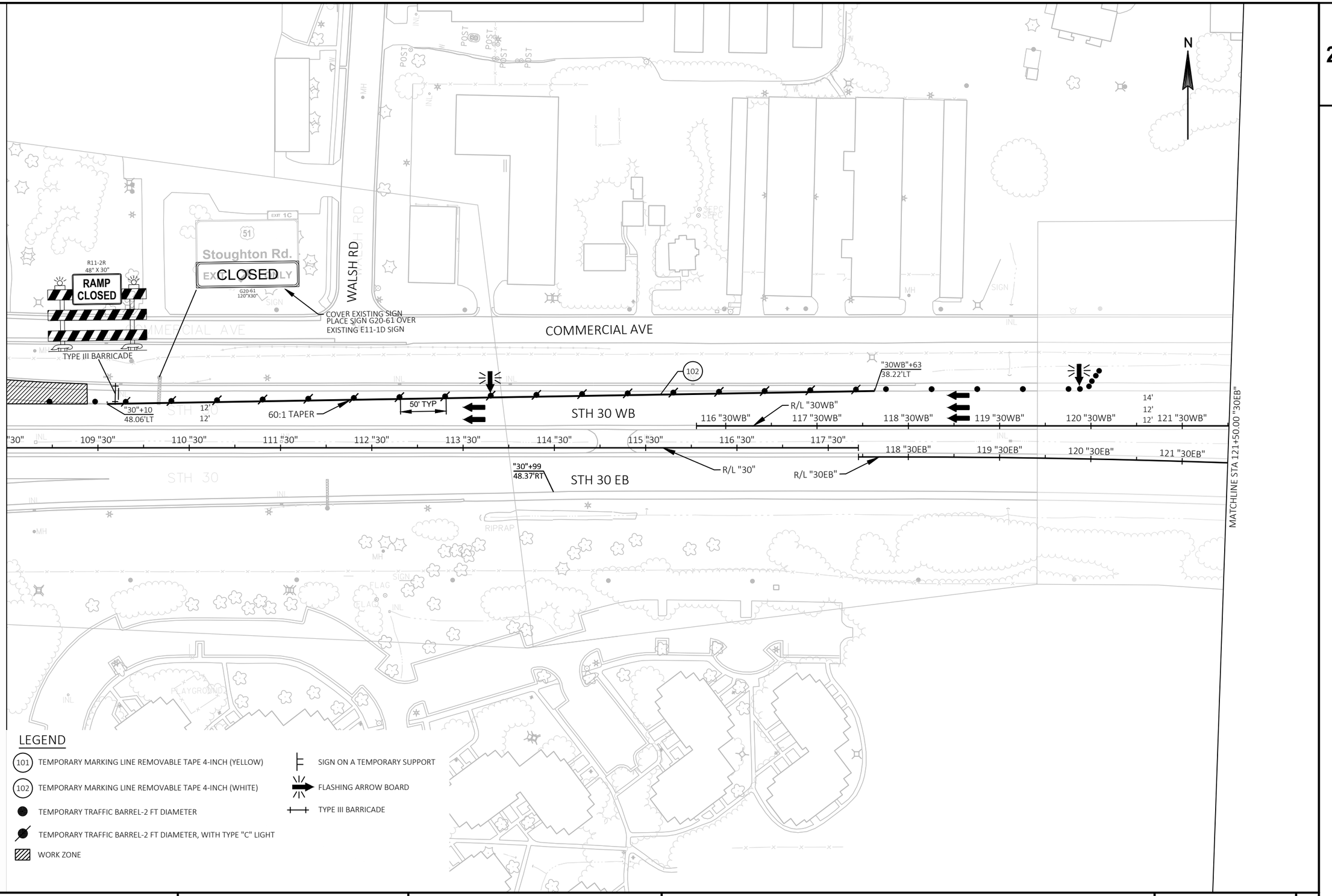


PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STOUGHTON RD WB EXIT RAMP CLOSURE	SHEET 77	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_STOUGHTON WB OFFRAMP.DWG
LAYOUT NAME - _001

PLOT DATE : 7/6/2021 10:57 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- TYPE III BARRICADE

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STOUGHTON RD WB EXIT RAMP CLOSURE	SHEET 78	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_STOUGHTON WB OFFRAMP.DWG
LAYOUT NAME - _002

PLOT DATE : 7/6/2021 10:58 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

ZIEGLER RD

REDLAND DR

BEWICK RD

PULLEY DR

COMMERCIAL AVE

PLACE SIGN G20-61 OVER EXISTING E11-1 SIGN
COVER EXISTING SIGN

EXIT 1C
51
Stoughton Rd.
1/4 MILE
CLOSED
EXIT ONLY
G20-61
120"X30"

W04-2R
48"X48"
122"WB"+81

RAMP CLOSED 1000 FT
W20-53C
48"X48"
128"WB"+23

1500'

RAMP CLOSED AHEAD
W20-53A
48"X48"
143"WB"+23

1500'

ROAD WORK AHEAD
W20-1A
48"X48"
PLACE 1500' BEFORE SIGN W20-53A

THOMPSON DR WB ON RAMP

STH 30 WB

122 "30WB" 123 "30WB" 124 "30WB" 125 "30WB" 126 "30WB" 127 "30WB" 128 "30WB" 129 "30WB" 130 "30WB" 131 "30WB" 132 "30WB" 133 "30WB" 134 "30WB" 135 "30WB" 136 "30WB"

14'
12'
12'

R/L "30WB"

122 "30EB" 123 "30EB" 124 "30EB" 125 "30EB" 126 "30EB" 127 "30EB" 128 "30EB" 129 "30EB" 130 "30EB" 131 "30EB" 132 "30EB" 133 "30EB" 134 "30EB" 135 "30EB" 136 "30EB"

12'
12'

STH 30 EB

R/L "30EB"

THOMPSON DR RD EB OFF RAMP

MATCHLINE STA 121+50.00 "30EB"

RIPRAP

LEGEND

- 101 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 102 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- TYPE III BARRICADE

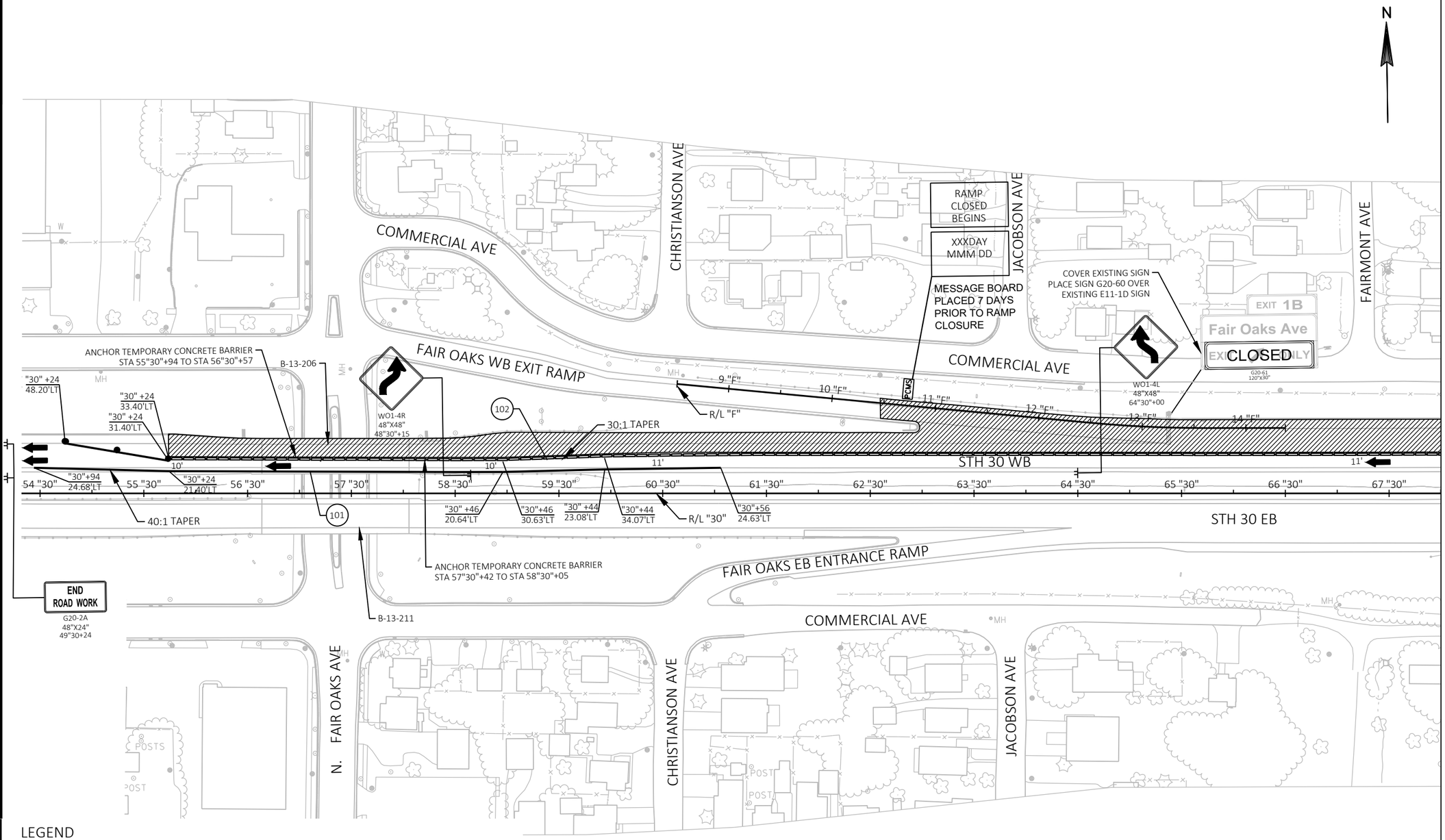
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STOUGHTON RD WB EXIT RAMP CLOSURE	SHEET 79	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\025420_TC_STOUGHTON WB OFFRAMP.DWG
LAYOUT NAME - _003

PLOT DATE : 7/6/2021 11:00 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY

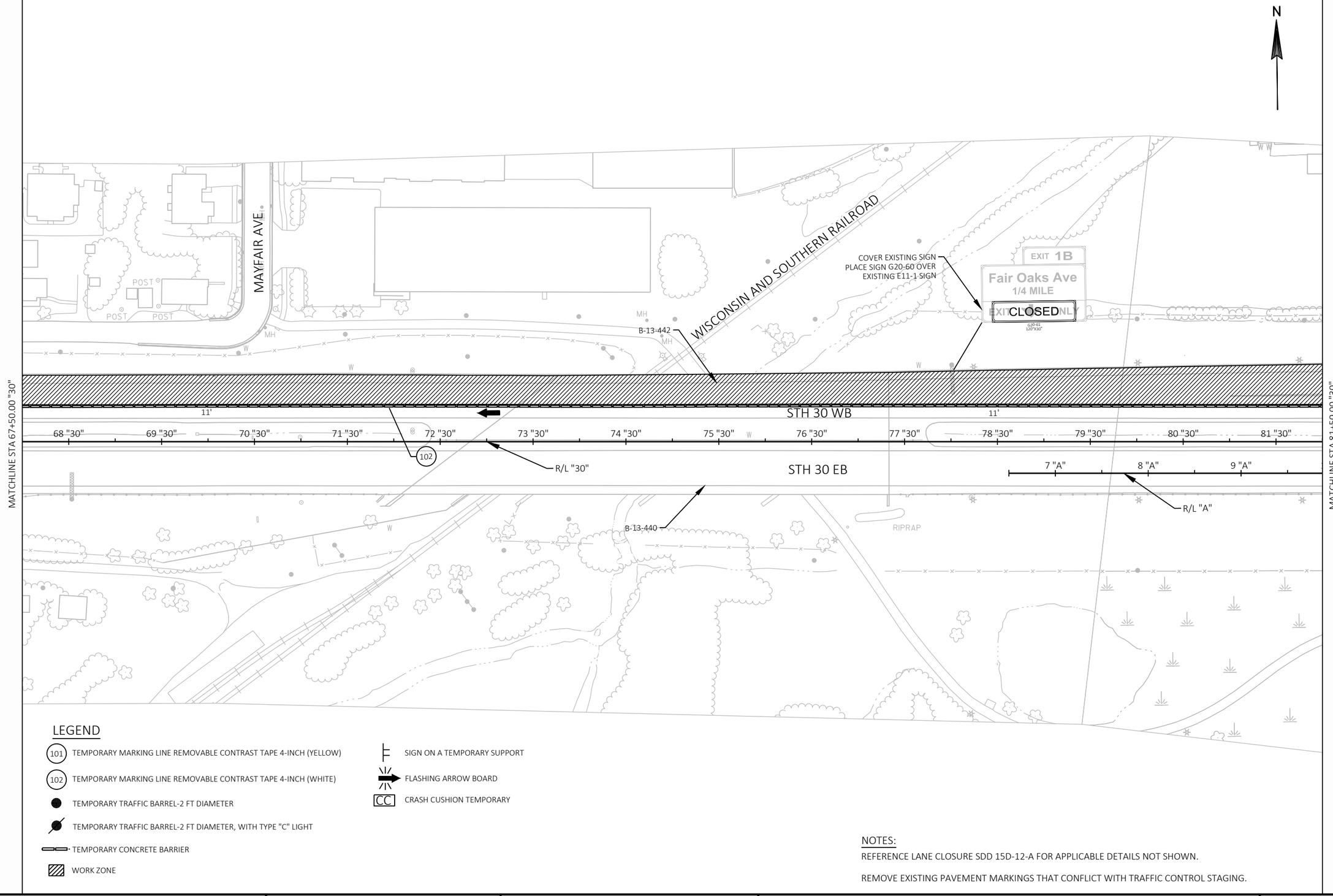
NOTES:

REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1	SHEET 80	E

2



LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY

NOTES:

REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1	SHEET 81	E

2

COVER EXISTING SIGN ON SB STOUGHTON RD APPROXIMATELY 300' NORTH OF THE INTERSECTION.

COVER EXISTING SIGN ON NB STOUGHTON RD APPROXIMATELY 600' SOUTH OF THE INTERSECTION.

RAMP CLOSED BEGINS

XXXDAY MMM DD

MESSAGE BOARD PLACED 7 DAYS PRIOR TO RAMP CLOSURE

M3-4 36"X18"
M1-6 36"X36"
WEST 30
RAMP CLOSED AHEAD
W20-53A 48" X 48"
PLACE 1000' BEFORE STH 30 WB ENTRANCE RAMP

NOTE: EXTEND DRUMS AND TYPE III BARRICADES TO CLOSE OFF ENTIRE USH 51 SB RT TURN LANE.

R11-2R 48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R3-1 36"X36"

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

COMMERCIAL AVE

STOUGHTON RD WB ENTRANCE RAMP

WO5-52R 18"X54"

PCMS

"30"+53 49.56'LT

"30"+30 48.57'LT

"30" +75 38.70'LT

8:1 TAPER

60:1 TAPER

B-13-322

CC

50' TYP

102

11'

12'

STH 30 WB

STH 30 EB

"30"+78 25.18'LT

STOUGHTON ROAD EB EXIT RAMP

COVER EXISTING SIGN
WEST 30
CLOSED
G20-61 120"X30"

B-13-323

R3-2 36"X36"

M3-4 36"X18"
M1-6 36"X36"
WEST 30
RAMP CLOSED AHEAD
W20-53A 48" X 48"
PLACE 1000' BEFORE EXISTING STH 30 WB ENTRANCE RAMP SIGNS

NOTE: EXTEND DRUMS AND TYPE III BARRICADES TO CLOSE OFF ENTIRE USH 51 NB LEFT TURN LANES

STOUGHTON RD

MATCHLINE STA 81+50.00 "30"

MATCHLINE STA 96+00.00 "30"

N

LEGEND

- 101 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- 102 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRIER

NOTES:

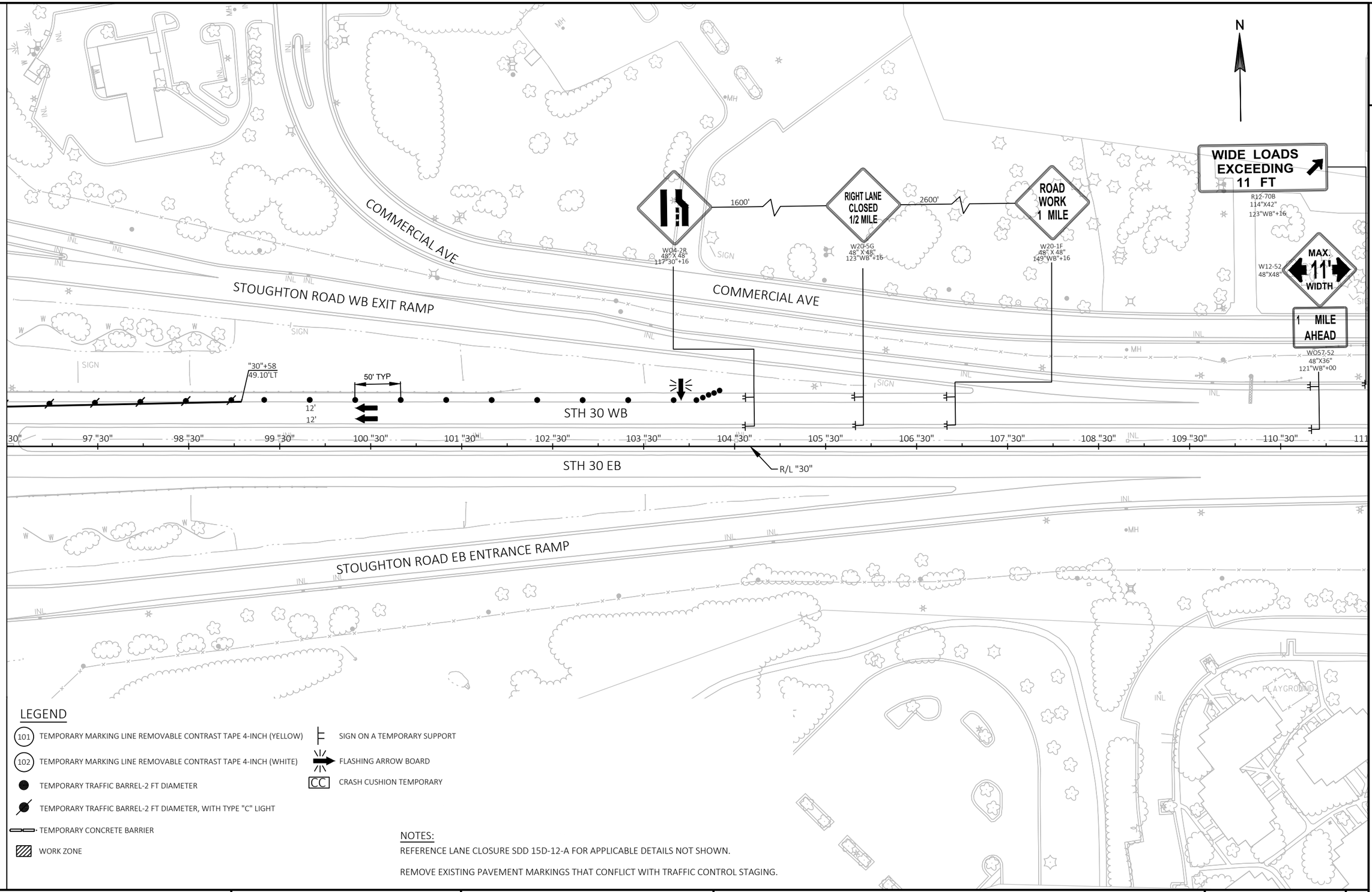
REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

REFERENCE SDD 15C2 FOR ONRAMP CLOSURE DETAILS NOT SHOWN.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1	SHEET 82	E

2



LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY

NOTES:

REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1	SHEET 83	E

2

N

COMMERCIAL AVE

CHRISTIANSON AVE

JACOBSON AVE

FAIRMONT AVE

FAIR OAKS WB EXIT RAMP

COMMERCIAL AVE

ANCHOR TEMPORARY CONCRETE BARRIER
STA 55"30"+94 TO STA 56"30"+57

SECURING STRUCTURE COVER

60:1 TAPER

"30"+24
50.13'LT

"30"+24
40.13'LT

"30"+24
38.13'LT

"30"+24
48.20'LT

"30"+24
24.72'LT

B-13-206

102

ANCHOR TEMPORARY CONCRETE BARRIER
STA 57"30"+42 TO STA 58"30"+05

WO1-4L
48"X48"
54"30"+54

9 "F"
10 "F"
11 "F"
12 "F"
13 "F"
14 "F"

R/L "F"

WO1-4R
48"X48"
64"30"+60

"30"+46
50.89'LT

"30"+46
40.89'LT

60:1 TAPER

"30"+06
48.21'LT

50' TYP

50' TYP

10'
10'
11'
15'
11'

STH 30 WB

CC

"30"+48
38.89'LT

"30"+26
29.00'LT

"30"+06
36.57'LT

54 "30"
55 "30"
56 "30"
57 "30"
58 "30"
59 "30"
60 "30"
61 "30"
62 "30"
63 "30"
64 "30"
65 "30"
66 "30"
67 "30"

MATCHLINE STA 67+50.00 "30"

12'
12'

"30"+31
9.75'RT

101

R/L "30"

"30"+73
49.67'RT

12'
12'
15'

STH 30 EB

FAIR OAKS EB ENTRANCE RAMP

WO5-52L
18"X54"

B-13-211

END
ROAD WORK

G20-2A
48"X24"
49"30"+24

ROAD
WORK
AHEAD

1500'

RAMP
CLOSED
AHEAD

1500'

RAMP
CLOSED
1000 FT

W20-1A
48"X48"
PLACE 1500' BEFORE SIGN
W20-53A

W20-53A
48"X48"
45"30"+76

W20-53C
48"X48"
60"30"+76

WO4-2R
48"X48"
64"30"+40

COMMERCIAL AVE

N. FAIR OAKS AVE

CHRISTIANSON AVE

JACOBSON AVE

POSTS

POST

POST

POST

LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRICADE

NOTES:

REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

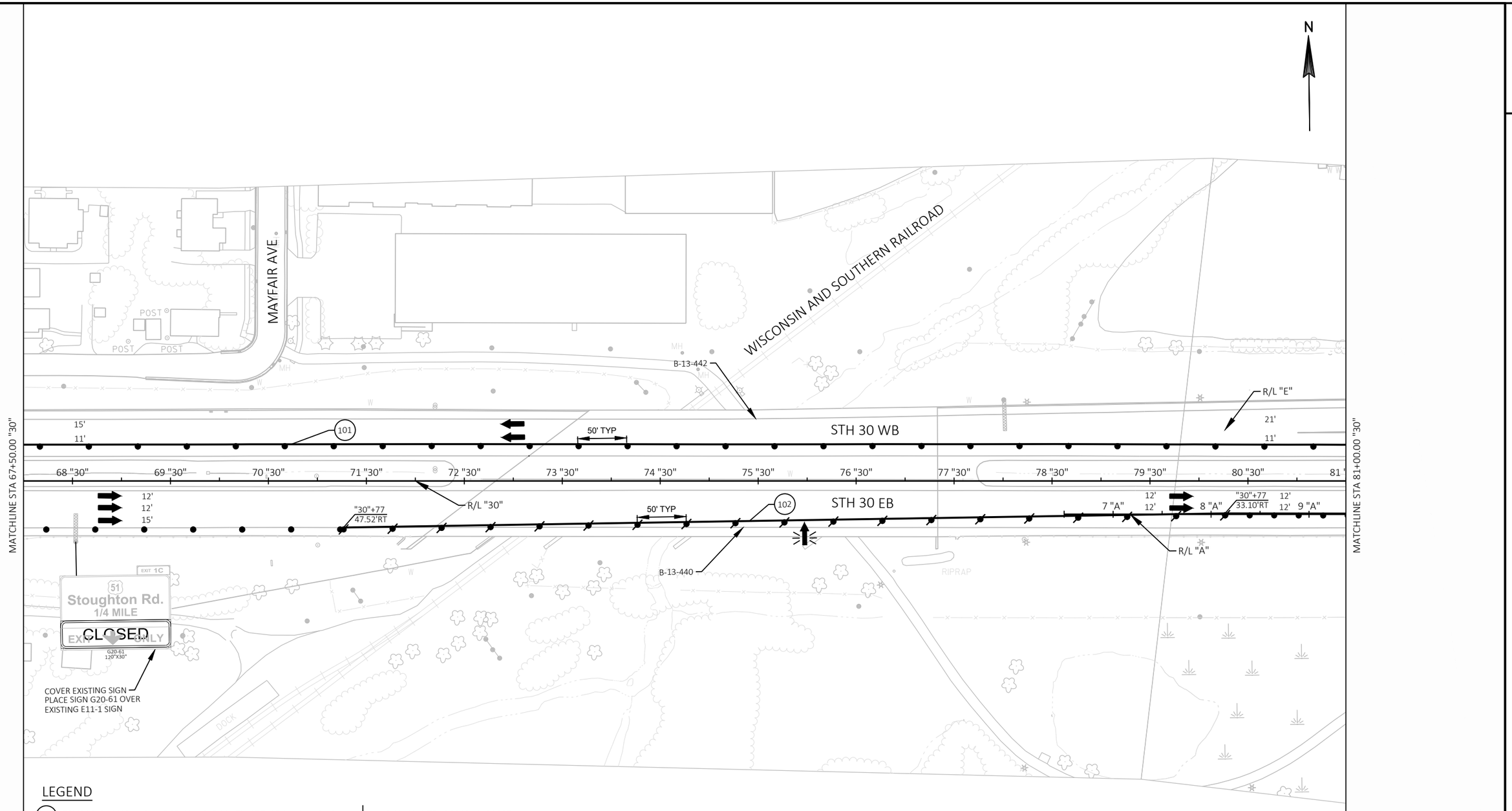
REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 84	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26001-s2

PLOT DATE : 7/6/2021 12:27 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRICADE

NOTES:

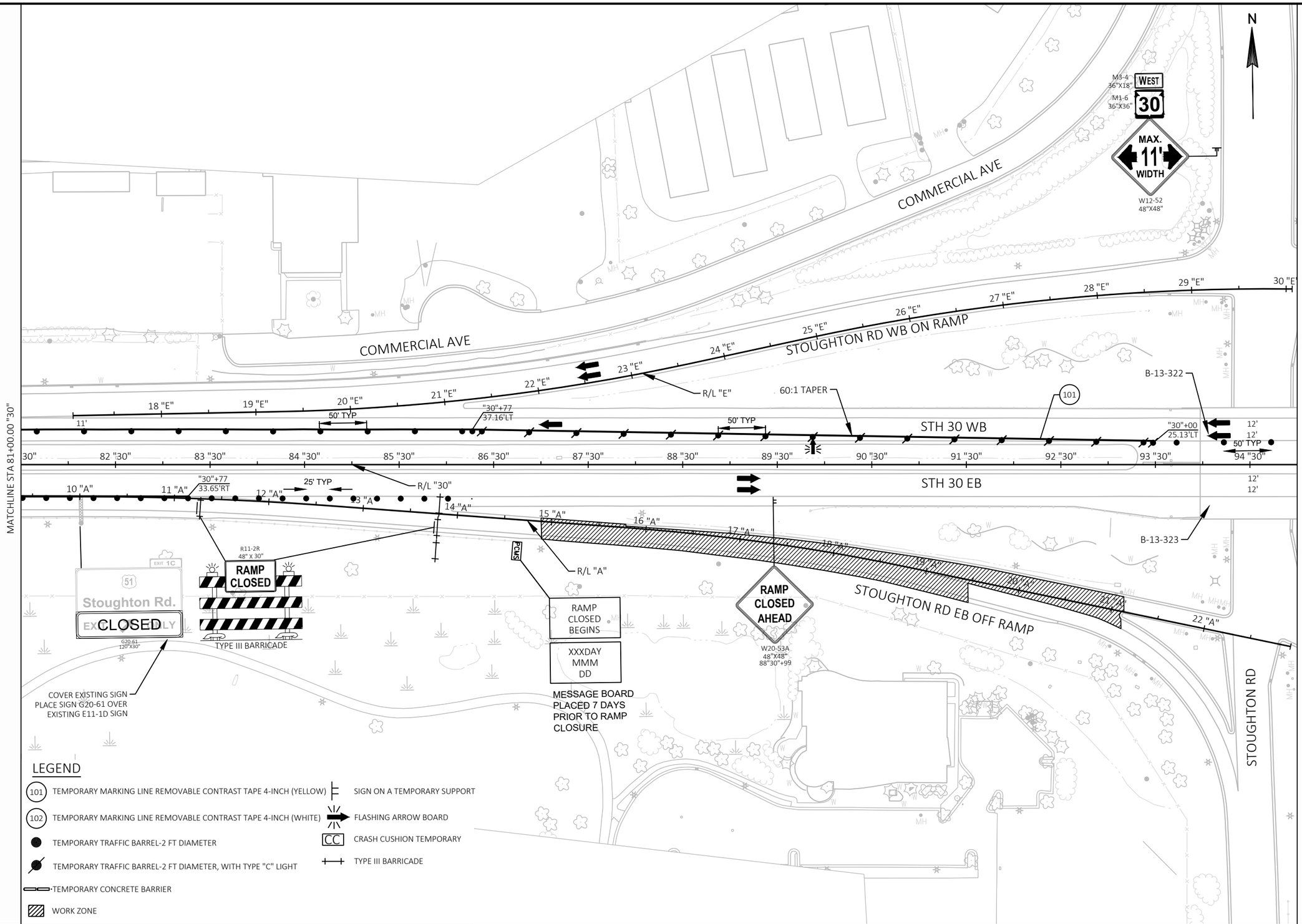
REFERENCE LANE CLOSURE SDD 15D-12-A FOR APPLICABLE DETAILS NOT SHOWN.

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL STAGING.

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 85	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26002-s2
PLOT DATE : 7/6/2021 12:28 PM
PLOT BY : CECELIA KASTEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 86	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26003-s2
PLOT DATE : 7/6/2021 12:29 PM
PLOT BY : CECELIA KASTEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

STOUGHTON RD

COMMERCIAL AVE

STOUGHTON RD WB OFF RAMP

N

WO4-2L
48" X 48"
103"30"+00

B-13-322

12'
12'

50' TYP

"30"+25
24.79'LT

STH 30 WB

12'
12'

95 "30" 96 "30" 97 "30" 98 "30" 99 "30" 100 "30" 101 "30" 102 "30" 103 "30" 104 "30" 105 "30" 106 "30" 107 "30" 108

MATCHLINE STA 94+50.00 "30"

MATCHLINE STA 108+00.00 "30"

12'
12'

R/L "30"

STH 30 EB

12'
12'

B-13-323

STOUGHTON RD EB ON RAMP

RAMP
CLOSED
1000 FT

W20-53C
48"X48"
103"30"+99

M3-4
36"X18"

WEST

M1-6
36"X36"

30

MAX.
11'
WIDTH

W12-52
48"X48"

LEGEND

- 101 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- 102 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRICADE

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 87	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26004-S2

PLOT DATE : 7/9/2021 8:25 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

WALSH RD

COMMERCIAL AVE

STH 30 WB

STH 30 EB

ROAD WORK 1 MILE
W20-1F
48" X 48"

LEFT LANE CLOSED 1/2 MILE
W20-55G
48" X 48"
119"30EB"+00

W12-52
48"X48"
MAX. 11' WIDTH

1 MILE AHEAD
WO57-52
48"X36"
121"WB"+00

MATCHLINE STA 108+00.00 "30"

MATCHLINE STA 121+50.00 "30EB"

14'
12'
12'

108 "30" 109 "30" 110 "30" 111 "30" 112 "30" 113 "30" 114 "30" 115 "30" 116 "30" 117 "30" 118 "30EB" 119 "30EB" 120 "30EB" 121 "30EB"

116 "30WB" 117 "30WB" 118 "30WB" 119 "30WB" 120 "30WB" 121 "30WB"

R/L "30WB"

R/L "30"

R/L "30EB"

60:1 TAPER

12'
12'
14'

50' TYP

"30"+99
48.37'RT

102

WO4-2R
48"X48"
109"30"+00

EXIT 2

Thompson Dr
1/4 MILE

CLOSED

EXIT ONLY

G20-61
120"X30"

RIPRAP

PLAYGROUND

MH

POST

LEGEND

- 101 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- 102 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRICADE

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 88	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26005-S2

PLOT DATE : 7/6/2021 12:32 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ZIEGLER RD

WIDE LOADS EXCEEDING 11 FT

R12-70B
114"X42"
123"WB"+16

REDLAND DR

BEWICK RD

PULLEY DR

COMMERCIAL AVE

COMMERCIAL AVE

THOMPSON DR WB ON RAMP

STH 30 WB

14'
12'
12'

122 "30WB"
123 "30WB"
124 "30WB"
125 "30WB"
126 "30WB"
127 "30WB"
128 "30WB"
129 "30WB"
130 "30WB"
131 "30WB"
132 "30WB"
133 "30WB"
134 "30WB"
135 "30WB"
136 "30WB"

R/L "30WB"

MATCHLINE STA 121+50.00 "30EB"

122 "30EB"
123 "30EB"
124 "30EB"
125 "30EB"
126 "30EB"
127 "30EB"
128 "30EB"
129 "30EB"
130 "30EB"
131 "30EB"
132 "30EB"
133 "30EB"
134 "30EB"
135 "30EB"
136 "30EB"

12'
12'

STH 30 EB

R/L "30EB"

THOMPSON DR EB OFF RAMP

60:1 TAPER

"30EB"+54
23.16'RT

CMS

R11-2R
48" X 30"

RAMP CLOSED

TYPE III BARRICADE

RAMP CLOSED BEGINS

XXXDAY
MMM
DD

MESSAGE BOARD PLACED 7 DAYS PRIOR TO RAMP CLOSURE

END ROAD WORK

G20-2A
48"X24"
132"EB"+50

RIPRAP

LEGEND

- (101) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (YELLOW)
- (102) TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (WHITE)
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER
- TEMPORARY TRAFFIC BARREL-2 FT DIAMETER, WITH TYPE "C" LIGHT
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- SIGN ON A TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- CC CRASH CUSHION TEMPORARY
- TYPE III BARRICADE

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2	SHEET 89	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\26001-S2.DWG
LAYOUT NAME - 26006-S2

PLOT DATE : 7/7/2021 8:38 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: SEE SDD "OFF RAMP LANE CLOSURE" FOR DETAILS NOT SHOWN.

N

USH 51

USH 151

STOUGHTON RD

STOUGHTON RD WB EXIT RAMP CLOSED

STH 30 WB

STH 30 EB

FAIR OAKS AVE

STOUGHTON RD

THOMPSON DR

M4-5 36"X18"
M1-4 36"X36"
MO5-1L 30"X30"

M4-5 36"X18"
M1-4 24"X24"
MO6-1 21"X21"

M4-5 36"X18"
M1-4 24"X24"

M4-8A 24"X18"
M3-3 EXISTING
END DETOUR
SOUTH
M1-4 EXISTING
M5-1R EXISTING

M4-5 36"X18"
M1-4 36"X36"
MO6-2 30"X30"

M4-5 36"X18"
M1-4 36"X36"
MO6-1 30"X30"

M4-5 36"X18"
M1-4 36"X36"
MO5-2R 30"X30"

M4-5 36"X18"
M1-4 36"X36"
MO6-1 30"X30"

PCMS

FRAME 1
EXIT XX CLOSED

FRAME 2
USE EXIT XX

PCMS

FRAME 1
EXIT XX CLOSED

FRAME 2
USE EXIT XX

PLACE 1 MILE PRIOR TO CLOSURE

LEGEND

DETOUR ROUTE

SIGN ON POST OR PORTABLE SUPPORT

XXX CLOSED TO TRAFFIC

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL: STOUGHTON RD WB OFFRAMP CLOSURE DETOUR	SHEET 90	E

NOTE: SEE SDD "OFF RAMP LANE CLOSURE" FOR DETAILS NOT SHOWN.

N

WRIGHT ST

STOUGHTON RD

USH 151

ABERG AVE

STH 30 WB

STH 30 EB

FAIR OAKS AVE

STOUGHTON RD

THOMPSON DR

STOUGHTON RD EB EXIT RAMP CLOSED

XXX XXX XXX

MB4-5 24"X12"
M1-4 24"X24"
MO6-1 21"X21"

M4-5 36"X18"
M1-4 36"X36"
MO5-2R 30"X30"

END DETOUR
M4-8A 24"X18"
M3-3 EXISTING
SOUTH
M1-4 EXISTING
M5-1R EXISTING

FRAME 1
EXIT XX CLOSED

FRAME 2
USE EXIT XX

PLACE 1 MILE PRIOR TO DETOUR

MB6-2 30"X30"

LEGEND

DETOUR ROUTE

SIGN ON POST OR PORTABLE SUPPORT

XXX CLOSED TO TRAFFIC

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL: STOUGHTON RD EB OFFRAMP CLOSURE DETOUR	SHEET 91	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\027002-DT.DWG
LAYOUT NAME - 027002-dt

PLOT DATE : 7/6/2021 1:06 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

NOTE: SEE SDD "OFF RAMP LANE CLOSURE" FOR DETAILS NOT SHOWN.

N

USH 151

IH 90/94

STOUGHTON RD

THOMPSON DR

FAIR OAKS AVE

STOUGHTON RD WB ENTRANCE RAMP CLOSED

STH 30 WB

XXXXXX

STH 30 EB

DETOUR AHEAD

W20-2A
48" X 48"

M4-8A 24"X18"
M3-3 24"X12"
M1-4 24"X24"
END DETOUR
SOUTH
151

TO
SOUTH
151
M4-5 24"X12"
M3-3 24"X12"
M1-4 24"X24"
MO6-1 21"X21"

TO
SOUTH
151
M4-5 36"X18"
M3-3 36"X18"
M1-4 36"X36"
MO5-2L 30"X30"

TO
SOUTH
151
M4-5 36"X18"
M3-3 36"X18"
M1-4 36"X36"
MO6-1 30"X30"

SOUTH
151
M3-3 36"X18"
M1-4 36"X36"

TO
SOUTH
151
M4-5 24"X12"
M3-3 36"X18"
M1-4 36"X36"
MO5-1R 30"X30"

TO
SOUTH
151
M4-5 36"X18"
M3-3 36"X18"
M1-4 36"X36"
MO6-1 30"X30"

TO
SOUTH
151
M4-5 36"X18"
M3-3 36"X18"
M1-4 36"X36"
MO5-2L 30"X30"

LEGEND

DETOUR ROUTE

SIGN ON POST OR PORTABLE SUPPORT

XXX CLOSED TO TRAFFIC

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	TRAFFIC CONTROL: STOUGHTON RD WB ONRAMP CLOSURE DETOUR	SHEET 92	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 7/6/2021 1:07 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 42

NOTE: SEE SDD "OFF RAMP LANE CLOSURE" FOR DETAILS NOT SHOWN.

N

USH 151

IH 90/94

STOUGHTON RD

THOMPSON DR

FAIR OAKS AVE

STH 30 WB

STH 30 EB

TO WEST 30 — M4-5 24"X12" / MB3-4 24"x12" / M1-6 24"X24" / MO6-1 21"X21"

TO WEST 30 — M4-5 36"X18" / MB3-4 36"x18" / M1-6 36"X36" / MO5-2L 30"X30"

TO WEST 30 — M4-5 24"X12" / MB3-4 24"x12" / M1-6 24"X24" / MO6-1 21"X21"

TO WEST 30 — M4-5 24"X12" / MB3-4 36"x18" / M1-6 36"X36" / MO5-1L 30"x30"

TO WEST 30 — M4-5 36"X18" / MB3-4 36"x18" / M1-6 36"X36" / MO6-1 30"X30"

END DETOUR WEST 30 — M4-8A 24"X18" / MB3-4 24"x12" / M1-6 24"X24"

WEST 30 — MB3-4 36"x18" / M1-6 36"X36"

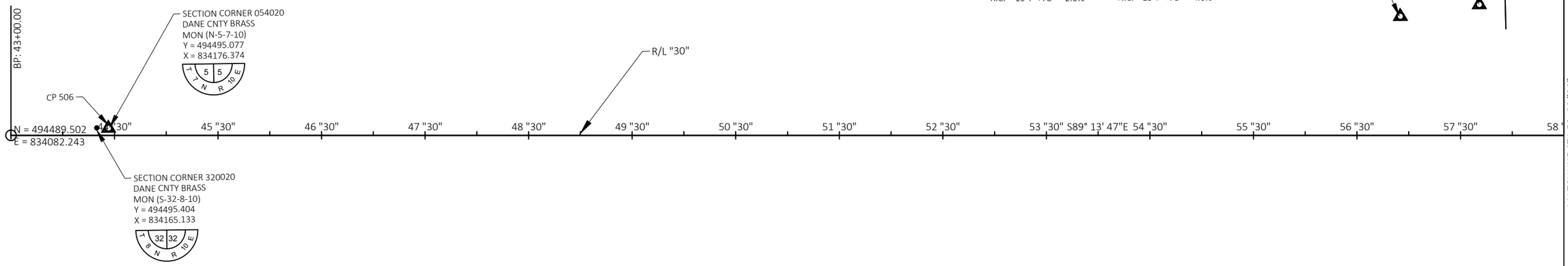
DETOUR AHEAD — W20-2A 48" X 48"

FRAME 1: EXIT XX CLOSED

FRAME 2: USE EXIT XX

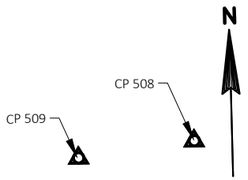
PLACE 1 MILE PRIOR TO CLOSURE

XXXX

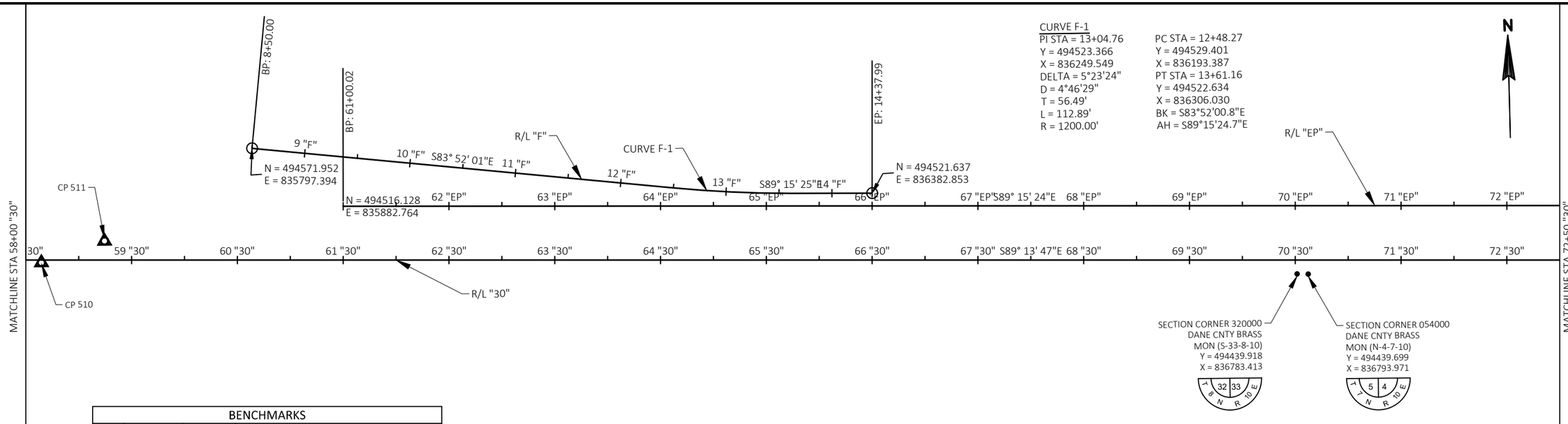


FAIR OAKS WB EXIT RAMP
SUPERELEVATION DATA

TRAVELED WAY			SHOULDER, LT.		
R.C.	12"F"+27	2.0%	N.C.	12"F"+27	4.0%
F.S.	12"F"+79	4.5%	F.S.	12"F"+79	4.5%
F.S.	13"F"+26	4.5%	F.S	13"F"+26	4.5%
R.C.	13"F"+78	2.0%	N.C.	13"F"+78	4.0%

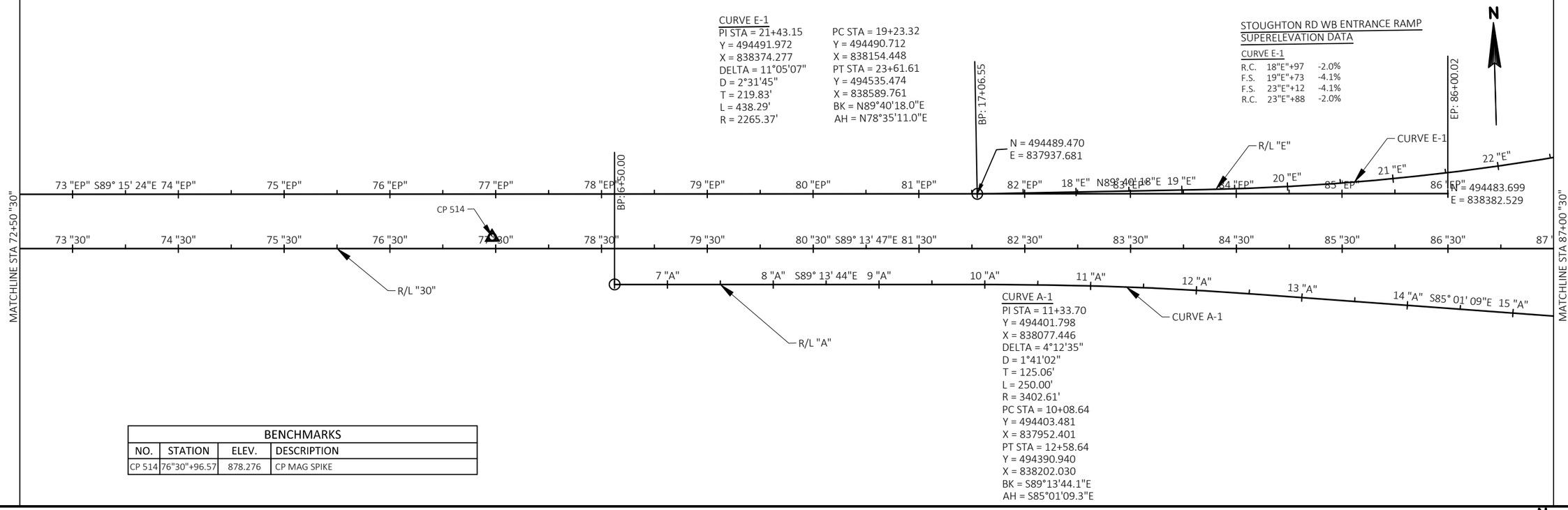


BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
CP 506	43"30"+94.05	867.206	CP MAG SPIKE
CP 508	56"30"+41.92	859.342	CP MAG SPIKE
CP 509	57"30"+18.19	858.975	CP MAG SPIKE

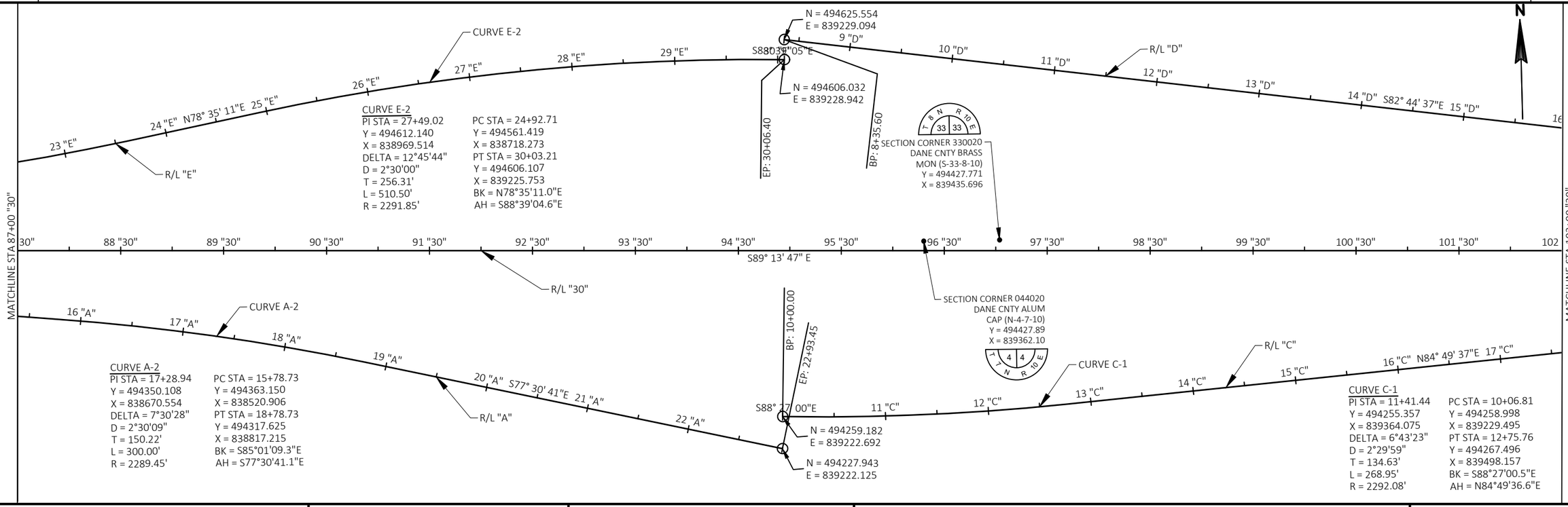


BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
CP 510	58"30"+14.81	875.473	CP MAG SPIKE
CP 511	58"30"+74.40	874.657	CP MAG SPIKE

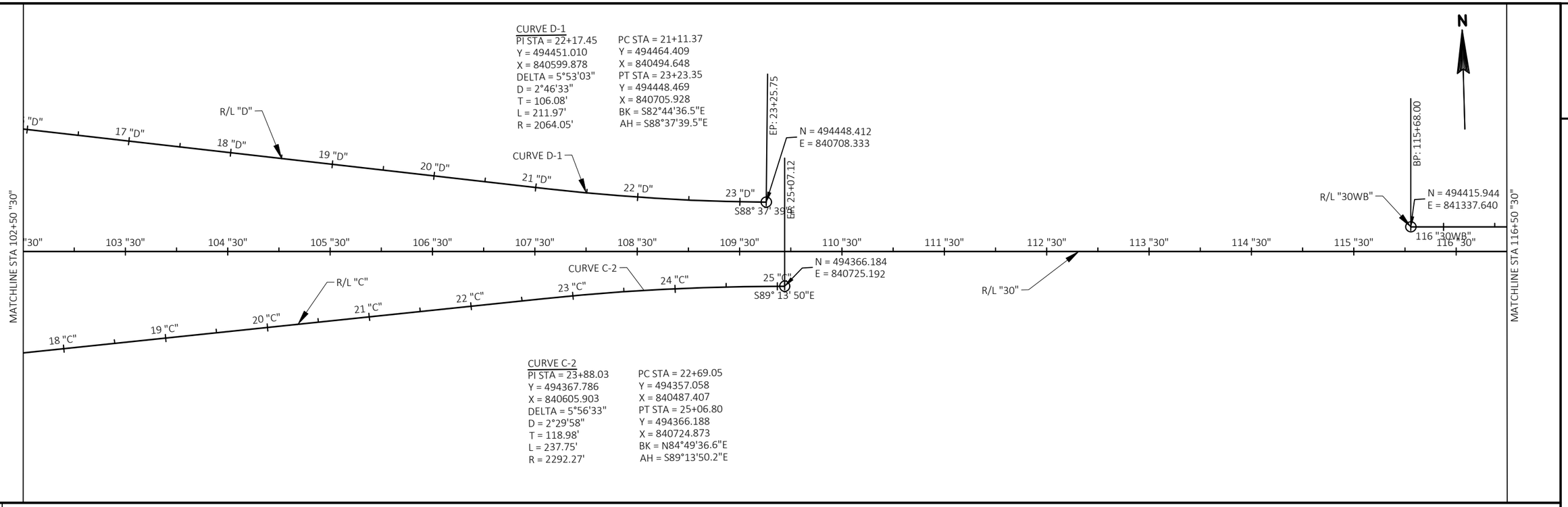
2

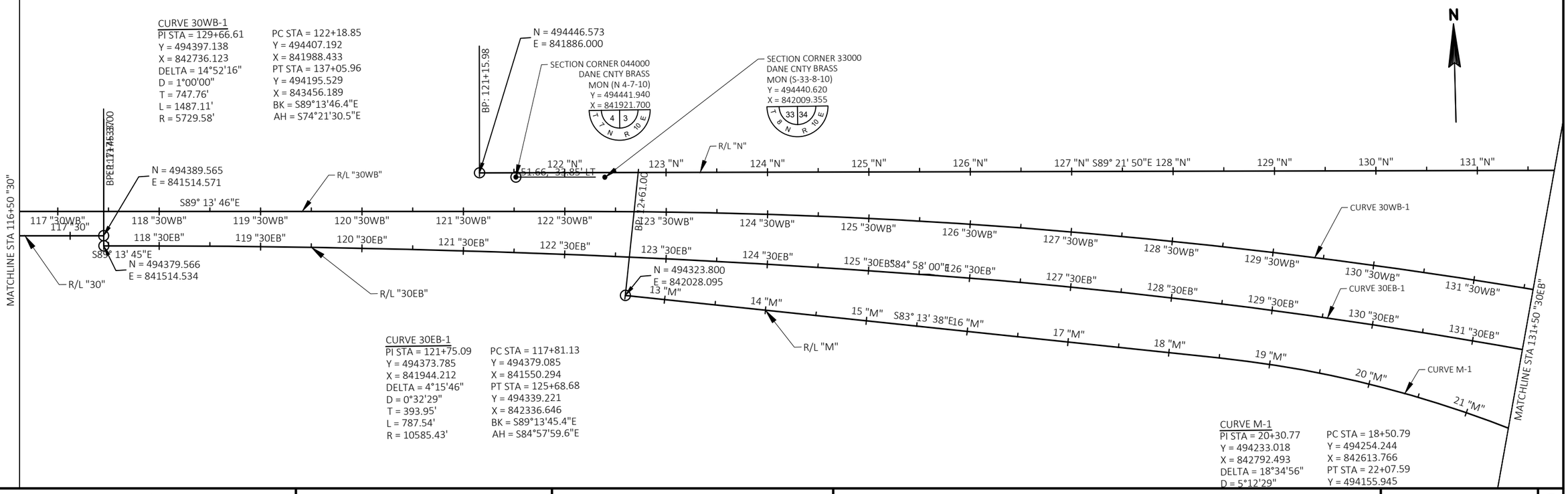


BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
CP 514	76"30"+96.57	878.276	CP MAG SPIKE

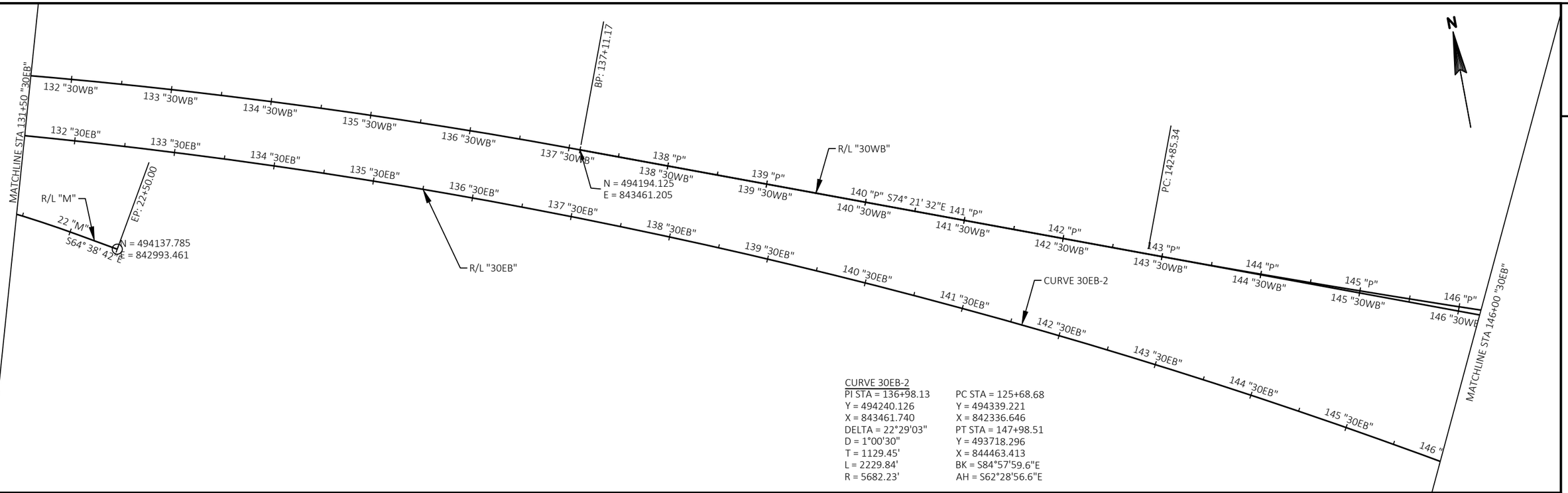


2





PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	ALIGNMENT SHEETS	SHEET 96	E



CURVE 30EB-2

PI STA = 136+98.13	PC STA = 125+68.68
Y = 494240.126	Y = 494339.221
X = 843461.740	X = 842336.646
DELTA = 22°29'03"	PT STA = 147+98.51
D = 1°00'30"	Y = 493718.296
T = 1129.45'	X = 844463.413
L = 2229.84'	BK = S84°57'59.6"E
R = 5682.23'	AH = S62°28'56.6"E

2

CURVE 30EB-3

PI STA = 176+05.41	PC STA = 162+68.34
Y = 492421.448	Y = 493039.206
X = 846952.767	X = 845766.955
DELTA = 38°34'56"	PT STA = 188+40.67
D = 1°30'00"	Y = 492678.053
T = 1337.08'	X = 848264.990
L = 2572.33'	BK = S62°28'56.6"E
R = 3820.00'	AH = N78°56'07.6"E

N

MATCHLINE STA 161+50 "30EB"

R/L "30EB"

CURVE 30EB-3

162 "30EB" 163 "30EB" 164 "30EB" 165 "30EB" 166 "30EB" 167 "30EB" 168 "30EB" 169 "30EB" 170 "30EB" 171 "30EB" 172 "30EB" 173 "30EB" 174 "30EB" 175 "30EB"

MATCHLINE STA 175+50 "30EB"

MATCHLINE STA 175+50 "30EB"

176 "30WB" 177 "30WB" 178 "30WB" 179 "30WB" 180 "30WB" 181 "30WB"

R/L "30WB"

EP: 180+66.59

176 "30EB" 177 "30EB" 178 "30EB" 179 "30EB" 180 "30EB" 181 "30EB" 182 "30EB" 183 "30EB" 184 "30EB" 185 "30EB" 186 "30EB" 187 "30EB" 188 "30EB" 189 "30EB" 190 "30EB"

R/L "30EB"

MATCHLINE STA 190+50 "30EB"

N

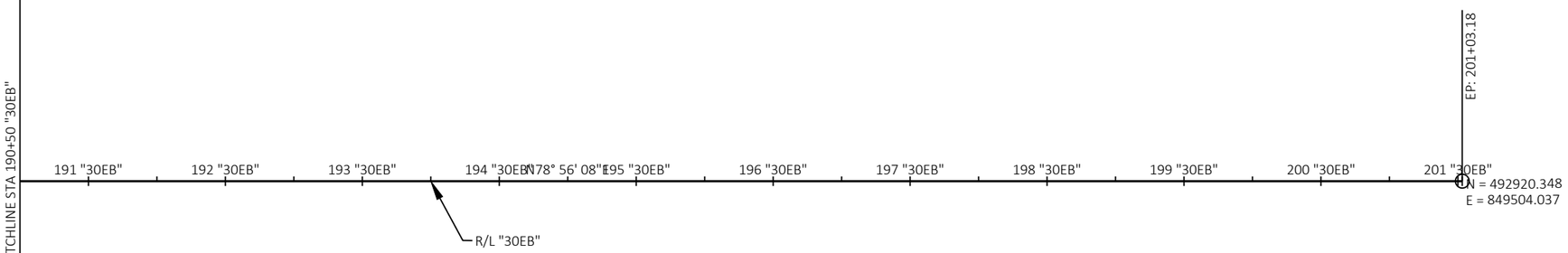
2

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	ALIGNMENT SHEETS	SHEET 98 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027205_ad

PLOT DATE : 10/22/2021 1:54 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

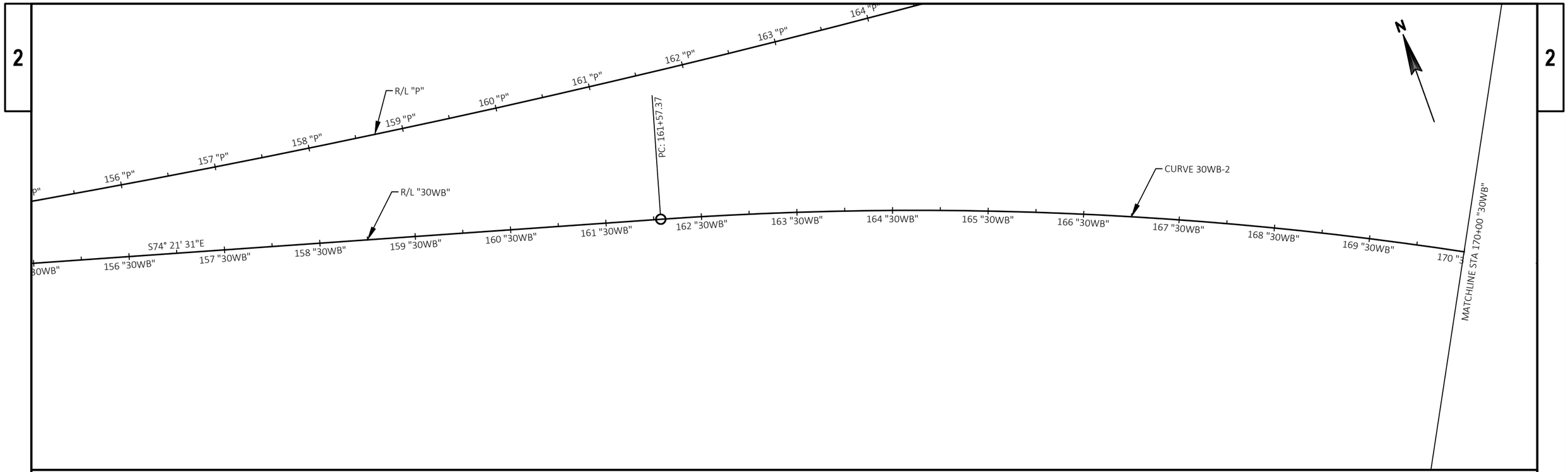
WISDOT/CADDS SHEET 44



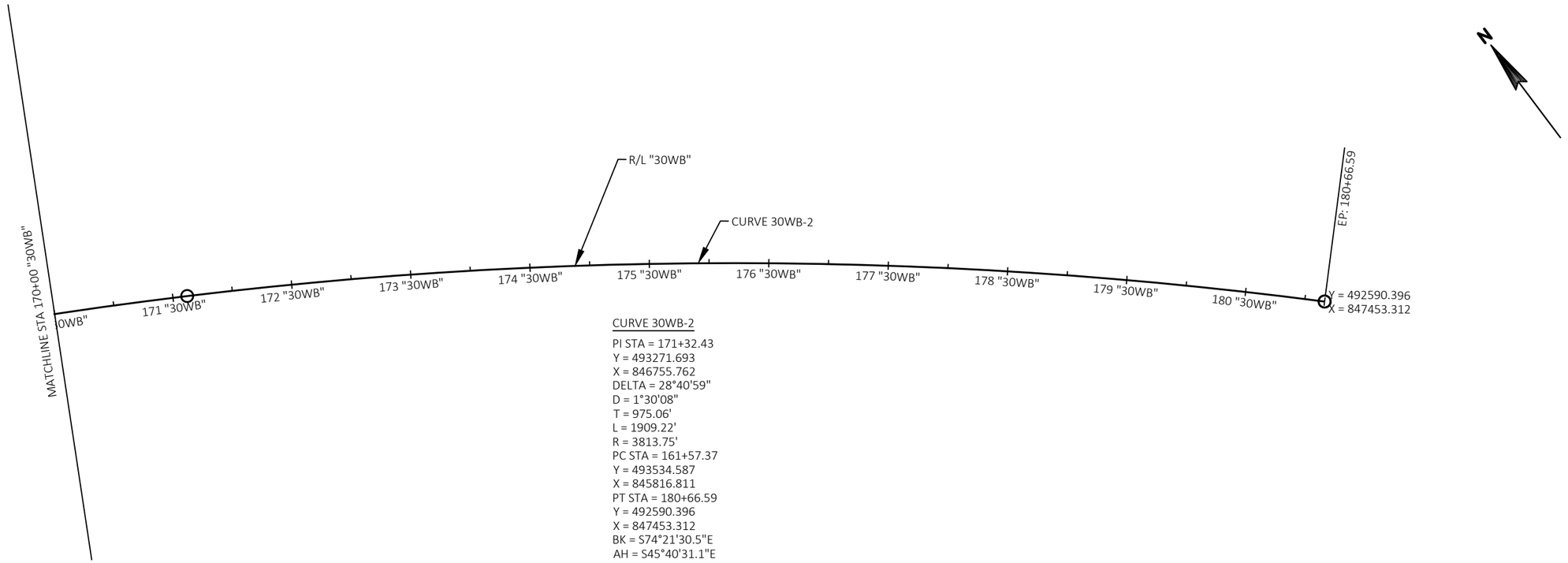


2

INTENTIONALLY LEFT BLANK



2



CURVE 30WB-2

PI STA = 171+32.43
Y = 493271.693
X = 846755.762
DELTA = 28°40'59"
D = 1°30'08"
T = 975.06'
L = 1909.22'
R = 3813.75'
PC STA = 161+57.37
Y = 493534.587
X = 845816.811
PT STA = 180+66.59
Y = 492590.396
X = 847453.312
BK = S74°21'30.5"E
AH = S45°40'31.1"E

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	ALIGNMENT SHEETS	SHEET 100	E

2

CURVE P-1
PI STA = 156+39.40
Y = 493674.249
X = 845318.032
DELTA = 13°28'38"
D = 0°30'00"
T = 1354.06'
L = 2695.62'
R = 11460.00'
PC STA = 142+85.34
Y = 494039.321
X = 844014.114
PT STA = 169+80.97
Y = 493623.117
X = 846671.127
BK = S74°21'31.6"E
AH = S87°50'09.2"E

N

PT: 169+80.97

MATCHLINE STA 170+00.00 "P"

"P" 156 "P" 157 "P" 158 "P" R/L "P" 159 "P" 160 "P" 161 "P" 162 "P" 163 "P" 164 "P" 165 "P" 166 "P" 167 "P" CURVE P-1 168 "P" 169 "P" 170

VB" R/L "30WB" 156 "30WB" 157 "30WB" 158 "30WB" 159 "30WB" 160 "30WB" 161 "30WB" PC: 161+57.37 162 "30WB" 163 "30WB" 164 "30WB"

2

N

MATCHLINE STA 170+00.00 "P"

EP: 178+06.46

"P" 171 "P" 172 "P" 173 "P" S87° 50' 09"E 174 "P" 175 "P" R/L "P" 176 "P" 177 "P" 178 "P"

Y = 493591.945
X = 847496.032

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	ALIGNMENT SHEETS	SHEET 101	E

PRIMARY CONTROL

TYPE	#	Y =	X =	ELEV.	DESCRIPTION
HMOD	2	468404.760	818883.314	873.90	BM /NGS MON - DQ4629
HMOD	3	469274.246	820402.627	931.83	BM /NGS MON - DQ4630
HMOD	100	474515.977	846134.393	863.20	MANONA GPS
HMOD	101	455623.389	861061.179	861.36	PLEASANT SPRINGS GPS
HMOD	102	452157.755	841106.610	858.38	DUNN GPS
HMOD	103	461259.317	807725.716	936.34	FITCHBURG GPS
HMOD	104	453117.736	786609.658	953.53	VERONA GPS
HMOD	105	475269.522	789792.129	1080.00	MIDDLETON GPS
CP	108	468604.663	810949.671	880.47	PK NAIL IN SIDEWALK
CP / BM	109	468621.746	810606.213	886.24	BRASS CAP
CP / BM	110	471225.043	824881.760	871.38	CP /ALUM MON
CP / BM	111	471402.114	825000.952	879.71	BM /ALUM MON
CP / BM	112	471401.341	826004.118	886.03	BM /ALUM MON
CP / BM	113	471549.567	826085.338	885.69	BM /ALUM MON
CP / BM	114	471951.275	836271.754	863.19	BM /ALUM MON
CP / BM	115	471947.079	836277.065	860.42	CP /ALUM MON
CP / BM	116	472095.727	837643.478	855.57	CP /ALUM MON
CP / BM	117	472019.974	837289.359	872.62	BM /ALUM MON
CP / BM	118	472308.267	841730.755	879.78	BM /ALUM MON
CP / BM	119	472311.821	841724.369	876.99	CP /ALUM MON
CP / BM	120	472757.924	847329.398	861.23	BM /BRASS MON

SECONDARY CONTROL

TYPE	#	Y =	X =	ELEV.	DESCRIPTION
CP	503	496212.647	838538.914	851.30	NGS MONUMENT DF9802
CP	504	492998.549	835065.474	855.75	USGS BM 1934
CP	505	494495.400	834165.130	867.29	CP MAG SPIKE
CP	506	494495.161	834176.378	867.21	CP / ALUM MON
CP	508	494596.765	835502.003	859.34	CP MAG SPIKE
CP	509	494586.492	835425.593	858.98	CP MAG SPIKE
CP	510	494466.690	835596.883	875.47	CP MAG SPIKE
CP	511	494486.312	835656.747	874.66	CP MAG SPIKE
CP	514	494454.738	837478.648	878.28	CP MAG SPIKE
CP	515	494452.623	837630.669	875.68	CP MAG SPIKE
CP	520	494623.625	838938.573	854.98	CP MAG NAIL IN ACC
CP	521	494597.401	838754.023	858.31	CP MAG NAIL IN ACC
CP	522	494602.931	837364.531	850.54	CP NAIL BTW PPOLS
CP	523	494602.951	837300.446	852.40	CP NAIL

SECTION CORNERS

TYPE	#	Y =	X =	ELEV.	DESCRIPTION
SC	320020	494495.400	834165.130	867.58	DANE CNTY BRASS MON (S 32-8-10)
SC	054020	494495.077	834176.374	867.21	DANE CNTY BRASS MON (N 5-7-10)
SC	320000	494439.918	836783.413	878.75	DANE CNTY BRASS MON (S 33-8-10)
SC	054000	494439.699	836793.971	878.92	DANE CNTY BRASS MON (N 4-7-10)
SC	044020	494427.883	839362.100	879.99	DANE CNTY ALUM CAP (N 4-7-10)
SC	330020	494427.883	839435.695	879.38	DANE CNTY BRASS MON (S 33-8-10)
SC	044000	494441.940	841921.700	930.00	DANE CNTY BRASS MON (S 4-7-10)
SC	33000	494440.620	842009.355	880.20	DANE CNTY BRASS MON (S 33-8-10)

Line	Item	Item Description	Unit	Total	5490-00-62 Qty	5490-00-63 Qty
0002	203.0220	Removing Structure (structure) 01, B-13-206	EACH	1.000	1.000	
0004	204.0100	Removing Concrete Pavement	SY	9,431.000	190.000	9,241.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	34,812.000	532.000	34,280.000
0008	204.0150	Removing Curb & Gutter	LF	137.000		137.000
0010	204.0157	Removing Concrete Barrier	LF	364.000		364.000
0012	204.0165	Removing Guardrail	LF	1,691.000		1,691.000
0014	204.9060.S	Removing (item description) 01 Loop Detector Wire	EACH	4.000		4.000
0016	205.0100	Excavation Common	CY	5,809.000		5,809.000
0018	206.1000	Excavation for Structures Bridges (structure) 01 B-13-206	LS	1.000	1.000	
0020	210.1500	Backfill Structure Type A	TON	75.000	75.000	
0022	213.0100	Finishing Roadway (project) 01. 5490-00-62	EACH	1.000	1.000	
0024	213.0100	Finishing Roadway (project) 02. 5490-00-63	EACH	1.000		1.000
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	739.000		739.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,303.000		5,303.000
0030	305.0500	Shaping Shoulders	STA	2.000		2.000
0032	310.0110	Base Aggregate Open-Graded	TON	991.000	14.000	977.000
0034	415.0090	Concrete Pavement 9-Inch	SY	441.000		441.000
0036	415.0100	Concrete Pavement 10-Inch	SY	7,188.000	51.000	7,137.000
0038	415.0410	Concrete Pavement Approach Slab	SY	139.000	139.000	
0040	415.1100	Concrete Pavement HES 10-Inch	SY	1,297.000		1,297.000
0042	416.0610	Drilled Tie Bars	EACH	5,472.000	23.000	5,449.000
0044	416.0620	Drilled Dowel Bars	EACH	1,275.000	32.000	1,243.000
0046	416.1110	Concrete Shoulder Rumble Strips	LF	1,062.000		1,062.000
0048	416.1710	Concrete Pavement Repair	SY	29.000		29.000
0050	416.1715	Concrete Pavement Repair SHES	SY	88.000		88.000
0052	416.1720	Concrete Pavement Replacement	SY	355.000		355.000
0054	416.1725	Concrete Pavement Replacement SHES	SY	2,170.000		2,170.000
0056	455.0605	Tack Coat	GAL	2,372.000	38.000	2,334.000
0058	460.2000	Incentive Density HMA Pavement	DOL	4,143.000	119.000	4,024.000
0060	460.6224	HMA Pavement 4 MT 58-28 S	TON	4,024.000		4,024.000
0062	460.6424	HMA Pavement 4 MT 58-28 H	TON	119.000	119.000	
0064	465.0400	Asphaltic Shoulder Rumble Strips	LF	23,006.000	412.000	22,594.000
0066	495.1000.S	Cold patch	TON	5.000		5.000
0068	502.0100	Concrete Masonry Bridges	CY	32.000	32.000	
0070	502.3101	Expansion Device	LF	35.000	35.000	
0072	502.3200	Protective Surface Treatment	SY	174.000	29.000	145.000
0074	502.3205	Pigmented Surface Sealer Reseal	SY	377.000	130.000	247.000
0076	502.3215	Protective Surface Treatment Reseal	SY	467.000		467.000
0078	502.4205	Adhesive Anchors No. 5 Bar	EACH	112.000	112.000	
0080	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	5,250.000	4,820.000	430.000
0082	505.0904	Bar Couplers No. 4	EACH	6.000	6.000	
0084	505.0905	Bar Couplers No. 5	EACH	22.000	22.000	
0086	505.0906	Bar Couplers No. 6	EACH	12.000	12.000	
0088	509.1000	Joint Repair	SY	15.000	15.000	
0090	509.1500	Concrete Surface Repair	SF	15.000	15.000	
0092	511.1200	Temporary Shoring (structure) 01 B-13-206	SF	64.000	64.000	
0094	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0096	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	46.000		46.000
0098	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	215.000		215.000

Line	Item	Item Description	Unit	Total	5490-00-62 Qty	5490-00-63 Qty
0100	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	20.000		20.000
0102	603.8000	Concrete Barrier Temporary Precast Delivered	LF	3,964.000	1,136.000	2,828.000
0104	603.8125	Concrete Barrier Temporary Precast Installed	LF	3,964.000	1,136.000	2,828.000
0106	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	126.000	126.000	
0108	603.8505	Anchoring Concrete Barrier Temporary Precast on Bridge Decks	LF	126.000	126.000	
0110	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	234.000	234.000	
0112	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	100.000	100.000	
0114	614.0010	Barrier System Grading Shaping Finishing	EACH	5.000		5.000
0116	614.0115	Anchorages for Steel Plate Beam Guard Type 2	EACH	2.000		2.000
0118	614.0305	Steel Plate Beam Guard Class A	LF	504.000		504.000
0120	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	9.000		9.000
0122	614.0400	Adjusting Steel Plate Beam Guard	LF	2,689.000		2,689.000
0124	614.0905	Crash Cushions Temporary	EACH	2.000	2.000	
0126	614.0950	Replacing Guardrail Posts and Blocks	EACH	35.000		35.000
0128	614.2300	MGS Guardrail 3	LF	1,106.000		1,106.000
0130	614.2500	MGS Thrie Beam Transition	LF	40.000		40.000
0132	614.2610	MGS Guardrail Terminal EAT	EACH	7.000		7.000
0134	614.2620	MGS Guardrail Terminal Type 2	EACH	6.000		6.000
0136	619.1000	Mobilization	EACH	1.000	0.080	0.920
0138	620.0300	Concrete Median Sloped Nose	SF	64.000		64.000
0140	624.0100	Water	MGAL	125.000		125.000
0142	628.1504	Silt Fence	LF	5,648.000	206.000	5,442.000
0144	628.1520	Silt Fence Maintenance	LF	5,648.000	206.000	5,442.000
0146	628.2004	Erosion Mat Class I Type B	SY	4,723.000	161.000	4,562.000
0148	628.7010	Inlet Protection Type B	EACH	37.000	1.000	36.000
0150	628.7015	Inlet Protection Type C	EACH	31.000	4.000	27.000
0152	628.7504	Temporary Ditch Checks	LF	144.000		144.000
0154	628.7555	Culvert Pipe Checks	EACH	3.000		3.000
0156	628.7570	Rock Bags	EACH	24.000	12.000	12.000
0158	633.1000	Delineators Barrier Wall	EACH	12.000	12.000	
0160	642.5401	Field Office Type D	EACH	1.000		1.000
0162	643.0300	Traffic Control Drums	DAY	11,616.000	248.000	11,368.000
0164	643.0410	Traffic Control Barricades Type II	DAY	13.000	13.000	
0166	643.0420	Traffic Control Barricades Type III	DAY	731.000	25.000	706.000
0168	643.0705	Traffic Control Warning Lights Type A	DAY	1,362.000	50.000	1,312.000
0170	643.0715	Traffic Control Warning Lights Type C	DAY	2,072.000	153.000	1,919.000
0172	643.0800	Traffic Control Arrow Boards	DAY	241.000		241.000
0174	643.0900	Traffic Control Signs	DAY	5,080.000	429.000	4,651.000
0176	643.0910	Traffic Control Covering Signs Type I	EACH	10.000	2.000	8.000
0178	643.1050	Traffic Control Signs PCMS	DAY	79.000		79.000
0180	643.5000	Traffic Control	EACH	1.000	0.080	0.920
0182	645.0111	Geotextile Type DF Schedule A	SY	78.000	78.000	
0184	646.1020	Marking Line Epoxy 4-Inch	LF	13,763.000	664.000	13,099.000
0186	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	488.000	488.000	
0188	646.3020	Marking Line Epoxy 8-Inch	LF	2,886.000		2,886.000
0190	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,171.000		1,171.000
0192	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	3,049.000	1,599.000	1,450.000
0194	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	1,067.000		1,067.000
0196	646.9210	Marking Removal Line Water Blasting Wide	LF	168.000		168.000

Line	Item	Item Description	Unit	Total	5490-00-62 Qty	5490-00-63 Qty
0198	649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	12,788.000	1,624.000	11,164.000
0200	650.5000	Construction Staking Base	LF	2,158.000		2,158.000
0202	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	20.000		20.000
0204	650.7000	Construction Staking Concrete Pavement	LF	2,158.000		2,158.000
0206	650.7500	Construction Staking Concrete Barrier	LF	339.000		339.000
0208	650.8000	Construction Staking Resurfacing Reference	LF	2,158.000		2,158.000
0210	652.0800	Conduit Loop Detector	LF	200.000		200.000
0212	655.0800	Loop Detector Wire	LF	640.000		640.000
0214	690.0150	Sawing Asphalt	LF	366.000	183.000	183.000
0216	690.0250	Sawing Concrete	LF	19,078.000	150.000	18,928.000
0218	715.0603	Incentive Strength Concrete Barrier	DOL	281.000		281.000
0220	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	2,678.000	15.000	2,663.000
0222	740.0440	Incentive IRI Ride	DOL	915.000		915.000
0224	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000	
0226	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000	
0228	SPV.0060	Special 01. Cleaning and Painting Bearings	EACH	15.000	15.000	
0230	SPV.0060	Special 02. Embedded Galvanic Anodes	EACH	10.000	10.000	
0232	SPV.0060	Special 03. Vegetation Removal B-13-206	EACH	1.000	1.000	
0234	SPV.0060	Special 04. Securing Structure Covers	EACH	1.000	1.000	
0236	SPV.0060	Special 05. Repairing Inlet	EACH	2.000		2.000
0238	SPV.0060	Special 06. Repositioning Traffic Control Devices For Mainline Closure	EACH	2.000	2.000	
0240	SPV.0060	Special 06.. Repositioning Traffic Control Devices For Mainline Closure	EACH	51.000		51.000
0242	SPV.0060	Special 07. Traffic Control Close-Open Freeway Entrance Ramp	EACH	23.000		23.000
0244	SPV.0060	Special 08. Verify Landmark Reference Monuments	EACH	4.000		4.000
0246	SPV.0060	Special 09. Verify and Replace Existing Land Parcel Monuments	EACH	3.000		3.000
0248	SPV.0090	Special 01. Sawing Curb head	LF	300.000		300.000
0250	SPV.0090	Special 02. Concrete Curb & Gutter HES 6-Inch Sloped 30-Inch Type G	LF	527.000		527.000
0252	SPV.0090	Special 03. Concrete Barrier Single-Faced 32-Inch, HES	LF	364.000		364.000
0254	SPV.0090	Special 04. Concrete Pavement Repair Longitudinal Joint	LF	5,065.000		5,065.000
0256	SPV.0165	Special 01. Concrete Surface Repair Special	SF	600.000		600.000
0258	SPV.0180	Special 01. Abutment Seat Cleaning and Sealing	SY	9.000	9.000	
0260	SPV.0180	Special 02. Concrete Pavement Repair Overnight	SY	602.000		602.000
0262	SPV.0180	Special 03. Concrete Pavement Replacement Overnight	SY	24.000		24.000
0264	SPV.0180	Special 04. Concrete Pavement Approach Slab SHES	SY	108.000		108.000

REMOVING PAVEMENT

CATEGORY	STATION FROM		STATION TO	OFFSET	DIRECTION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
PROJECT 5490-00-62							
0010	55"30"+00	-	55"30"+94	LT	STH 30 WB	--	59
	55"30"+94	-	56"30"+14	LT	STH 30 WB	74	--
	57"30"+56	-	57"30"+88	LT	STH 30 WB	107	--
	57"30"+71	-	61"30"+06	LT	STH 30 WB	--	197
	57"30"+88	-	61"30"+06	LT	STH 30 WB	--	251
SUBTOTAL						181	507
UNDISTRIBUTED						9	25
PROJECT 5490-00-62 TOTALS						190	532
PROJECT 5490-00-63							
0010	61"30"+06	-	72"30"+51	LT	STH 30 WB	--	547
	61"30"+06	-	64"30"+13	LT	STH 30 WB	--	322
	64"30"+64	-	71"30"+77	RT	STH 30 EB	--	325
	64"30"+65	-	71"30"+33	RT	STH 30 EB	--	632
	65"30"+00	-	73"30"+45	LT	STH 30 WB	993	--
	71"EP'+00	-	73"EP'+26	LT	STH 30 WB	232	--
	71"30"+46	-	71"30"+70	RT	STH 30 EB	17	--
	72"30"+45	-	72"30"+83	LT	STH 30 WB	42	--
	76"EP'+83	-	83"EP'+16	LT	STH 30 WB	1,986	--
	76"30"+85	-	76"30"+99	RT	STH 30 EB	15	--
	76"30"+95	-	93"30"+10	LT	STH 30 WB	--	855
	76"30"+99	-	82"30"+76	RT	STH 30 EB	--	487
	77"30"+20	-	92"30"+85	RT	STH 30 EB	--	718
	77"30"+33	-	77"30"+45	RT	STH 30 EB	32	--
	85"30"+55	-	93"30"+11	RT	STH 30 EB	--	779
	86"30"+00	-	93"30"+12	LT	STH 30 WB	--	606
	95"30"+79	-	107"30"+92	LT	STH 30 WB	--	1,109
	95"30"+86	-	117"30"+33	LT	STH 30 WB	--	1,022
	96"30"+08	-	117"30"+33	RT	STH 30 EB	--	1,016
	95"30"+86	-	107"30"+80	RT	STH 30 EB	--	1,281
	113"30"+10	-	117"30"+33	RT	STH 30 EB	--	409
	114"30"+35	-	114+90"30"	LT/RT	STH 30 MAINTENANCE CROSSOVER	--	111
	117"30WB"+45	-	136"30WB"+21	LT	STH 30 WB	--	950
	117"30EB"+45	-	136"30EB"+50	LT	STH 30 EB	--	941
	117"30EB"+45	-	136"30EB"+71	RT	STH 30 EB	--	487
	118"30WB"+08	-	121"30WB"+16	LT	STH 30 WB	--	296
	123"30EB"+95	-	136"30EB"+63	RT	STH 30 EB	--	1,296
	124"30WB"+82	-	136"30WB"+22	LT	STH 30 WB	--	1,051
	138"30WB"+05	-	138"30WB"+05	RT	STH 30 WB	--	1,932
	138"30EB"+16	-	177"30EB"+15	LT	STH 30 EB	--	1,934
	138"30EB"+32	-	169"30EB"+18	RT	STH 30 EB	--	2,035

REMOVING PAVEMENT (CONT.)

CATEGORY	STATION FROM		STATION TO	OFFSET	DIRECTION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
	145"30WB"+17	-	178"30WB"+07	LT	STH 30 WB	--	3,349
	171"30EB"+43	-	177"30EB"+09	RT	STH 30 EB	--	448
	10 "F"+00	-	13"F"+38	RT	FAIR OAKS WB EXIT RAMP (RAMP F)	580	300
	18"E"+67	-	29"E"+45	LT/RT	STOUGHTON RD WB ENTRANCE RAMP (RAMP E)	3,520	--
	18"E"+67	-	28"E"+66	RT	STOUGHTON RD WB ENTRANCE RAMP (RAMP E)	--	492
	23"E"+22	-	28"E"+87	LT	STOUGHTON RD WB ENTRANCE RAMP (RAMP E)	--	363
	11"A"+14	-	20"A"+47	RT	STOUGHTON RD EB EXIT RAMP (RAMP A)	--	493
	12"A"+15	-	15"A"+78	LT	STOUGHTON RD EB EXIT RAMP (RAMP A)	--	265
	15"A"+78	-	21"A"+14	LT/RT	STOUGHTON RD EB EXIT RAMP (RAMP A)	1,384	--
	9"D"+94	-	20"D"+61	RT	STOUGHTON RD WB EXIT RAMP (RAMP D)	--	381
	121"N"+16	-	131"N"+53	LT	THOMPSON DR WB ENTRANCE RAMP (RAMP N)	--	988
	126"N"+84	-	131"N"+53	RT	THOMPSON DR WB ENTRANCE RAMP (RAMP N)	--	259
	131"N"+53	-	133"N"+01	LT/RT	THOMPSON DR WB ENTRANCE RAMP (RAMP N)	--	678
	12"M'+71	-	22"M'+25	RT	THOMPSON DR EB EXIT RAMP (RAMP M)	--	589
	19"M'+96	-	22"M'+25	LT	THOMPSON DR EB EXIT RAMP (RAMP M)	--	88
	137"P'+87	-	167"P'+51	LT	STH 30 / I-90 WB ENTRANCE RAMP (RAMP P)	--	1,981
	150"P'+29	-	167"P'+56	RT	STH 30 / I-90 WB ENTRANCE RAMP (RAMP P)	--	833
SUBTOTAL						8,801	32,648
UNDISTRIBUTED						440	1,632
PROJECT 5490-00-63 TOTALS						9,241	34,280

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REMOVALS

CATEGORY	ROADWAY	STATION FROM		STATION TO	OFFSET	204.0150 REMOVING CURB & GUTTER LF	204.0165 REMOVING GUARDRAIL LF
0010	STH 30	59"30"+42	-	59"30"+72	LT	--	30
	STH 30	67"30"+39	-	67"30"+90	RT	--	51
	STH 30	89"30"+34	-	89"30"+72	RT	--	38
	STH 30	101"30"+20	-	101"30"+65	LT	--	45
	STH 30	109"30"+61	-	110"30"+24	LT	--	64
	STH 30	110"30"+82	-	111"30"+59	RT	--	76
	STH 30	121"EB"+88	-	122"EB"+77	RT	--	89
	STH 30	134"EB"+55	-	135"EB"+00	LT	--	45
	STH 30	134"EB"+62	-	135"EB"+00	RT	--	38
	STH 30	139"WB"+77	-	140"WB"+02	RT	--	26
	STH 30	142"EB"+20	-	142"EB"46	LT	--	26
	STH 30	144"EB"+67	-	145"EB"+17	RT	--	50
	STH 30	167"EB"+28	-	168"EB"+80	LT	--	153
	STH 30	167"EB"+41	-	168"EB"+78	RT	--	139
	STH 30	175"EB"+66	-	177"EB"+04	LT	--	138
	STH 30	175"EB"+78	-	176"EB"+89	RT	--	113
	FAIR OAKS AVE WB EXIT RAMP	10"F"+00	-	13"F"+38	LT	--	337
	FAIR OAKS AVE WB EXIT RAMP	10"F"+70	-	10"F"+82	RT	11	--
	STOUGHTON ROAD WB ENTRANCE RAMP	23"E"+22	-	23"E"+92	LT	--	70
	STOUGHTON ROAD WB ENTRANCE RAMP	28"E"+65	-	29"E"+34	RT	75	--
	STOUGHTON ROAD WB EXIT RAMP	15"D"+42	-	15"D"+58	LT	16	--
	STOUGHTON ROAD WB EXIT RAMP	19"D"+17	-	19"D"+47	LT	30	--
	STOUGHTON ROAD EB EXIT RAMP	21"A"+13	-	21"A"+18	RT	5	--
	THOMPSON DR WB ENTRANCE RAMP	121"N"+53	-	122"N"+78	LT	--	126
	STH 30/I-39 WB ENTRANCE RAMP	145"P"+79	-	146"P"+16	LT	--	38
PROJECT 5490-00-63 TOTALS						137	1,691

BASE AGGREGATE DENSE

CATEGORY	ROADWAY	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON
0010	**GUARDRAIL LOCATIONS**	
	WB STA 59.21 to STA 60+96	11
	WB STA 60+96 to STA 62+25	19
	EB STA 66+21 to STA 67+02	11
	EB STA 67+02 to STA 67+90	4
	EB STA 88+77 to STA 89+47	15
	EB STA 89+47 to STA 89+72	
	WB STA 101+20 to STA 102+14	14
	EB STA 120+80 to STA 121+56	10
	EB STA 121+56 to STA 123+23	9
	WB STA 121+53 to STA 123+05	7
	WB STA 123+05 to STA 123+97	13
	EB STA 134+02 to STA 134+90	14
	WB STA 139+77 to STA 140+82	15
	WB STA 145+79 to STA 146+65	13
	EB STA 166+25 to STA 167+03 (LT)	12
	EB STA 167+03 to STA 169+48 (LT)	13
	EB STA 167+24 to STA 168+04 (RT)	11
	EB STA 168+04 to STA 169+47 (RT)	7
	EB STA 175+62 to STA 176+46 (LT)	13
	EB STA 175+64 to STA 176+64 (RT)	19
	EB STA 176+46 to STA 177+33 (LT)	5
	EB STA 176+54 to STA 177+18 (RT)	4
	RAMP E STA 23+20 to STA 24+10	5
	RAMP E STA 24+10 to STA 26+45	38
	RAMP F STA 10+00 to STA 13+38	15
	STH 30 GRADING AT GUARDRAIL LOCATIONS	420
	SUBTOTAL	703
	UNDISTRIBUTED	35
	PROJECT 5490-00-63 TOTALS	739

FINISHING ROADWAY

CATEGORY	ROADWAY	213.0100 FINISHING ROADWAY EACH
PROJECT 5490-00-62		
0010	STH 30 EB/WB	1
PROJECT 5490-00-62 TOTAL		1
PROJECT 5490-00-63		
0010	STH 30 EB/WB	1
PROJECT 5490-00-63 TOTAL		1

EXCAVATION COMMON

CATEGORY	ROADWAY	STATION FROM		STATION TO	205.0100 EXCAVATION COMMON CY
0010	RAMP F	10"F"+00	-	13"F"+38	646
	RAMP F / STH 30 WB AUX LAN	65"30"+00	-	73"30"+16	591
	STH 30 WB AUX LANE / RAMP	77"30+00"	-	83"30"+16	762
	RAMP E	18"E"+66	-	29"E"+45	2,874
	STH 30 EB GUARDRAIL	65"30EB"+66	-	177"30EB"+04	561
	STH 30 WB GUARDRAIL	59"30WB"+21	-	147"30WB"+16	375
PROJECT 5490-00-63 TOTALS					5,809

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BASE AGGREGATE DENSE

CATEGORY	ROADWAY	STATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	310.0110 BASE AGGREGATE OPEN-GRADED TON	305.0500 SHAPING SHOULDERS STA	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	624.0100 WATER MGAL
PROJECT 5490-00-62							
0010	**CONCRETE PAVEMENT**						
	STH 30 WB	55"30"+94 to 56"30"+14	--	7	--	--	--
	STH 30 WB	57"30"+56 to 57"30"+88	--	7	--	--	--
SUBTOTAL			--	13	--	--	--
UNDISTRIBUTED			--	1	--	--	--
PROJECT 5490-00-62 TOTALS			--	14	--	--	--
PROJECT 5490-00-63							
0010	**ASPHALT**						
	STOUGHTON RD WB ENTRANCE RAMP SHOULDER	21"E"+24 to 28"E"+66	566	--	--	--	11
	STOUGHTON RD WB ENTRANCE RAMP SHOULDER	26"E"+44 to 28"E"+87	259	--	--	--	5
SUBTOTAL			824	--	--	--	16
0010	**CONCRETE PAVEMENT**						
	STH 30 WB	64"EP"+13 to 72"EP"+45	--	314	--	--	6
	STH 30 WB SHOULDER	71"EP"+00 to 73"EP"+16	--	65	--	--	1
	STH 30 WB SHOULDER	77"EP+04 to 83"EP"+16	--	150	--	--	3
	STH 30 WB	77"EP+04 to 83"EP"+17	--	402	--	--	8
	FAIR OAKS WB EXIT RAMP	8"F"+69 to 10"F"+30	--	--	2	5	--
	FAIR OAKS WB EXIT RAMP	10"F"+00 to 12"F"+52	263	--	--	--	5
	STOUGHTON RD WB ENTRANCE RAMP	18"E"+67 to 23"E"+23	244	--	--	--	5
	STOUGHTON RD WB ENTRANCE RAMP	18"E"+67 to 29"E"+45	1,970	--	--	--	39
SUBTOTAL			2,477	930	2	5	67
0010	**GUARDRAIL LOCATIONS**						
	STH 30 WB	60+96 WB to 62+27 WB	152	--	--	--	3
	STH 30 EB	66+22 EB to 67+02 EB	92	--	--	--	2
	STH 30 EB	88+77 EB to 89+47 EB	127	--	--	--	3
	STH 30 EB	89+47 EB to 89+72 EB	3	--	--	--	--
	STOUGHTON RD WB ENTRANCE RAMP	Ramp E STA 23+20 to STA 26+45	386	--	--	--	8
	STH 30 WB	101+20 WB to 102+14 WB	129	--	--	--	3
	STH 30 EB	120+80 EB to 121+56 EB	82	--	--	--	2
	STH 30 WB	123+05 WB to 123+97 WB	112	--	--	--	2
	STH 30 EB	134+11 EB to 135+00 EB (RT)	123	--	--	--	2
	STH 30 WB	139+77 WB to 140+82 WB	101	--	--	--	2
	STH 30 WB	145+79 WB to 146+65 WB	104	--	--	--	2
	STH 30 EB	165+96 EB to 166+74 EB (LT)	82	--	--	--	2
	STH 30 EB	166+95 EB to 167+75 EB (RT)	74	--	--	--	1
	STH 30 EB	175+33 EB to 176+16 EB (LT)	92	--	--	--	2
	STH 30 EB	175+35 EB to 176+25 EB (RT)	89	--	--	--	2
SUBTOTALS			1,749	--	--	--	36
UNDISTRIBUTED			253	47	--	--	6
PROJECT 5490-00-63 TOTALS			5,303	977	2	5	125

MAINLINE CONCRETE ITEMS

CATEGORY	ROADWAY	DIRECTION	STATION FROM		STATION TO	OFFSET	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.0100 CONCRETE PAVEMENT 10-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	SPV.0180.04 CONCRETE PAVEMENT APPROACH SLAB SHES SY	415.1100 CONCRETE PAVEMENT HES 10-INCH SY	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1720 CONCRETE PAVEMENT REPLACEMENT SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	416.0610 DRILLED TIE BARS* EACH	416.0620 DRILLED DOWEL BARS* EACH	690.0250 SAWING CONCRETE* LF
PROJECT 5490-00-62																		
0010	STH 30	WB	55"30"+94	-	56"30"+14	LT	--	24	50	--	--	--	--	--	--	8	15	62
	STH 30	WB	57"30"+56	-	57"30"+88	LT	--	25	82	--	--	--	--	--	--	13	15	81
	UNDISTRIBUTED						--	2	7	--	--	--	--	--	--	2	2	7
PROJECT 5490-00-62 TOTALS							--	51	139	--	--	--	--	--	--	23	32	150
PROJECT 5490-00-63																		
0010	STH 30, AUXILIARY	WB	64"EP"+13	-	72"EP"+45	LT	--	1,129	--	--	--	--	--	--	--	573	8	915
	STH 30, SHOULDER	WB	71"EP"+00	-	73"EP"+16	LT	--	187	--	--	--	--	--	--	--	115	13	21
	STH 30	WB	72"30"+45	-	72"30"+83	LT	--	--	--	42	--	--	--	--	--	21	9	79
	STH 30, SHOULDER	WB	77"EP"+04	-	83"EP"+16	LT	--	541	--	--	--	--	--	--	--	245	11	627
	STH 30, AUXILIARY	WB	77"EP"+04	-	83"EP"+16	LT	--	1,445	--	--	--	--	--	--	--	245	5	535
	STH 30	EB	135"30"+91	-	136"30"+66	LT	--	--	--	--	--	--	--	--	--	9	17	115
	STH 30	EB	138"EB"+19	-	138"EB"+47	RT	--	--	--	61	--	--	--	--	--	6	32	70
	FAIR OAKS EXIT RAMP	WB	10"F"+00	-	12"F"+52	RT	420	--	--	--	--	--	--	--	--	--	10	18
	STOUGHTON RD ENTRANCE RAMP, SHOULDER	WB	18"E"+67	-	23"E"+23	LT	--	389	--	--	--	--	--	--	--	182	--	391
	STOUGHTON RD ENTRANCE RAMP	WB	18"E"+67	-	29"E"+45	LT	--	3,106	--	--	--	--	--	--	--	27	50	143
	STOUGHTON RD EXIT RAMP	EB	14"A"+52	-	14"A"+58	RT	--	--	--	--	--	10	--	--	--	2	20	21
	STOUGHTON RD EXIT RAMP	EB	14"A"+89	-	14"A"+99	RT	--	--	--	--	--	17	--	--	--	4	20	25
	STOUGHTON RD EXIT RAMP	EB	15"A"+78	-	21"A"+14	RT	--	--	--	--	1,235	--	--	--	--	80	40	262
	STOUGHTON RD EXIT RAMP	WB	9"D"+40	-	9"D"+46	LT	--	--	--	--	--	--	16	--	--	5	32	60
	STOUGHTON RD EXIT RAMP	WB	10"D"+26	-	10"D"+32	LT	--	--	--	--	--	--	8	--	--	5	32	36
	STOUGHTON RD EXIT RAMP	WB	10"D"+69	-	10"D"+84	LT	--	--	--	--	--	--	20	--	--	12	32	54
	STOUGHTON RD EXIT RAMP	WB	11"D"+06	-	11"D"+76	LT	--	--	--	--	--	--	--	--	159	61	43	216
	STOUGHTON RD EXIT RAMP, SHOULDER	WB	14"D"+55	-	17"D"+46	LT	--	--	--	--	--	--	--	--	170	117	34	635
	STOUGHTON RD EXIT RAMP	WB	14"D"+55	-	17"D"+46	LT	--	--	--	--	--	--	--	--	743	--	--	--
	STOUGHTON RD EXIT RAMP	WB	17"D"+90	-	20"D"+27	LT	--	--	--	--	--	--	--	--	162	95	8	487
	STOUGHTON RD EXIT RAMP	WB	20"D"+92	-	21"D"+07	LT	--	--	--	--	--	--	11	--	--	12	9	43
	STOUGHTON RD EXIT RAMP	WB	21"D"+74	-	22"D"+87	LT	--	--	--	--	--	--	--	--	219	90	28	268
	THOMPSON DR EXIT RAMP	EB	14"M"+23	-	14"M"+68	LT	--	--	--	--	--	--	--	73	--	--	20	119
	THOMPSON DR EXIT RAMP	EB	15"M"+68	-	16"M"+98	LT	--	--	--	--	--	--	--	211	--	--	20	289
	THOMPSON DR EXIT RAMP	EB	19"M"+19	-	19"M"+39	LT	--	--	--	--	--	--	--	31	--	--	20	69
	THOMPSON DR EXIT RAMP	EB	20"M"+53	-	20"M"+68	LT	--	--	--	--	--	--	--	23	--	--	20	58
	THOMPSON DR ENTRANCE RAMP	WB	124"N"+74	-	124"N"+84	LT	--	--	--	--	--	--	19	--	--	4	21	51
	THOMPSON DR ENTRANCE RAMP	WB	125"N"+42	-	125"N"+48	LT	--	--	--	--	--	--	9	--	--	--	19	40
	THOMPSON DR ENTRANCE RAMP	WB	127"N"+89	-	128"N"+67	LT	--	--	--	--	--	--	--	--	123	--	19	184
	THOMPSON DR ENTRANCE RAMP	WB	128"N"+67	-	131"N"+52	LT	--	--	--	--	--	--	--	--	491	--	19	623
UNDISTRIBUTED							21	340	--	5	62	1	4	17	103	38	30	323
PROJECT 5490-00-63 TOTALS							441	7,137	--	108	1,297	29	88	355	2,170	1,948	638	6,777

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

MAINLINE CONCRETE REPAIR

CATEGORY	ROADWAY	DIRECTION	STATION FROM		STATION TO	LANE	416.0610 DRILLED TIE BARS* EACH	416.0620 DRILLED DOWEL BARS* EACH	690.0250 SAWING CONCRETE* LF	SPV.0180.02 CONCRETE PAVEMENT REPAIR OVERNIGHT SY	SPV.0180.03 CONCRETE PAVEMENT REPLACEMENT OVERNIGHT SY
PROJECT 5490-00-63											
0010	STH 30	WB	59"30"+18	-	59"30"+24	INSIDE,OUTSIDE	--	16	64	17	--
	STH 30	EB	64"30"+97	-	65"30"+03	AUXILIARY	2	16	40	9	--
	STH 30	EB	70"30"+18	-	70"30"+32	AUXILIARY	6	16	58	23	--
	STH 30	EB	70"30"+97	-	71"30"+45	INSIDE,OUTSIDE	2	48	180	48	--
	STH 30	EB	71"30"+45	-	71"30"+69	OUTSIDE SHOULDER	3	16	66	--	24
	STH 30	EB	76"30"+84	-	76"30"+99	OUTSIDE SHOULDER	6	16	48	15	--
	STH 30	EB	77"30"+33	-	77"30"+45	INSIDE,OUTSIDE	5	16	72	32	--
	STH 30	EB	78"30"+10	-	78"30"+20	AUXILIARY	4	16	48	16	--
	STH 30	EB	80"30"+27	-	80"30"+33	INSIDE,OUTSIDE	2	16	60	16	--
	STH 30	EB	85"30"+97	-	86"30"+03	INSIDE	2	16	36	8	--
	STH 30	WB	88"30"+10	-	88"30"+16	OUTSIDE	2	16	36	8	--
	STH 30	EB	97"30"+17	-	97"30"+23	INSIDE,OUTSIDE	--	16	66	18	--
	STH 30	EB	101"30"+94	-	102"30"+00	OUTSIDE	2	16	40	9	--
	STH 30	WB	108"30"+97	-	109"30"+03	INSIDE,OUTSIDE	--	16	60	16	--
	STH 30	EB	114"30"+47	-	114"30"+53	INSIDE	2	16	36	8	--
	STH 30	WB	116"WB"+57	-	116"WB"+63	OUTSIDE	5	16	36	8	--
	STH 30	WB	117"WB"+33	-	118"WB"+08	OUTSIDE SHOULDER	5	16	162	50	--
	STH 30	WB	117"WB"+47	-	118"WB"+58	OUTSIDE	29	96	216	48	--
	STH 30	EB	121"EB"+42	-	121"EB"+48	INSIDE	2	16	36	8	--
	STH 30	WB	126"WB"+43	-	126"WB"+58	INSIDE,OUTSIDE	--	16	82	43	--
	STH 30	EB	138"EB"+47	-	138"EB"+62	INSIDE,OUTSIDE	--	16	80	42	--
	STH 30	WB	142"WB"+97	-	143"WB"+03	INSIDE,OUTSIDE	2	16	60	16	--
	STH 30	EB	148"EB"+27	-	148"EB"+33	INSIDE	2	16	36	8	--
	STOUGHTON RD ENTRANCE RAMP	EB	12"C"+93	-	13"C"+08	INSIDE,OUTSIDE	--	16	90	50	--
	STOUGHTON RD ENTRANCE RAMP	EB	17"C"+77	-	17"C"+83	INSIDE,OUTSIDE	2	16	42	10	--
	STOUGHTON RD ENTRANCE RAMP	EB	20"C"+42	-	20"C"+48	INSIDE,OUTSIDE	2	16	42	10	--
	I-39 / STH 30 ENTRANCE RAMP	WB	150"P"+47	-	150"P"+53	OUTSIDE	2	16	36	8	--
	I-39 / STH 30 ENTRANCE RAMP	WB	169"P"+31	-	169"P"+37	OUTSIDE	2	16	36	8	--
	I-39 / STH 30 ENTRANCE RAMP	WB	169"P"+52	-	169"P"+60	INSIDE,OUTSIDE	3	16	64	21	--
	UNDISTRIBUTED						25	29	93	28	--
PROJECT 5490-00-63 TOTALS							124	605	2,021	602	24

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FILE NAME: \\MADW00\INGRPROJ\66034\t1\cds\030201_mq.ppt PLOT DATE : 1/7/2022 9:11:53 AM PLOT BY : HNTB Corp PLOT NAME : 030201_mq5 PLOT SCALE : 1:1

3

RUMBLE STRIPS

CATEGORY	STATION FROM		STATION TO	SHOULDER LOCATION	ROADWAY	416.1110 CONCRETE SHOULDER RUMBLE STRIP LF	465.0400 ASPHALTIC SHOULDER RUMBLE STRIP LF
PROJECT 5490-00-62							
0010	55"30"+00	-	55"30"+94	INSIDE	STH 30 WB	--	94
	57"30"+88	-	61"30"+06	OUTSIDE	STH 30 WB	--	318
PROJECT 5490-00-62 TOTALS						--	412
PROJECT 5490-00-63							
0010	61"30"+06	-	64"30"+13	OUTSIDE	STH 30 WB	--	307
	76"30"+98	-	82"30"+76	OUTSIDE	STH 30 EB	--	578
	77"EP"+04	-	83"EP"+16	OUTSIDE	STH 30 WB	611	--
	83"30"+15	-	93"30"+11	OUTSIDE	STH 30 WB	--	996
	83"30"+78	-	93"30"+11	OUTSIDE	STH 30 EB	--	933
	95"30"+79	-	107"30"+92	OUTSIDE	STH 30 WB	--	1,213
	95"30"+86	-	107"30"+80	OUTSIDE	STH 30 EB	--	1,194
	113"30"+10	-	117"EB"+33	OUTSIDE	STH 30 EB	--	423
	117"EB"+45	-	122"EB"+72	OUTSIDE	STH 30 EB	--	527
	118"WB"+08	-	121"WB"+16	OUTSIDE	STH 30 WB	--	308
	123"EB"+94	-	136"EB"+62	OUTSIDE	STH 30 EB	--	1,268
	124"WB"+83	-	136"WB"+22	OUTSIDE	STH 30 WB	--	1,139
	138"EB"+32	-	169"EB"+23	OUTSIDE	STH 30 EB	--	3,091
	145"WB"+17	-	178"WB"+07	OUTSIDE	STH 30 WB	--	3,290
	171"EB"+43	-	177"EB"+09	OUTSIDE	STH 30/I-94 EB ENTRANCE RAMP	--	566
	171"EB"+43	-	173"EB"+03	INSIDE	STH 30/I-90 SB ENTRANCE RAMP	--	160
	10"F"+00	-	13"F"+38	OUTSIDE	FAIR OAKS WB EXIT RAMP	--	338
	11"A"+14	-	20"A"+47	OUTSIDE	STOUGHTON RD EB EXIT RAMP	--	933
	18"E"+67	-	23"E"+22	OUTSIDE	STOUGHTON RD WB ENTRANCE RAMP	451	--
	23"E"+22	-	27"E"+61	OUTSIDE	STOUGHTON RD WB ENTRANCE RAMP	--	439
	12"M"+71	-	22"M"+25	OUTSIDE	THOMPSON DR EXIT RAMP	--	954
	121"N"+16	-	130"N"+89	OUTSIDE	THOMPSON DR ENTRANCE RAMP	--	973
	137"P"+87	-	167"P"+51	OUTSIDE	STH 30/I-90 WB ENTRANCE RAMP	--	2,964
PROJECT 5490-00-63 TOTALS						1,062	22,594

CONCRETE CURB & GUTTER ITEMS

CATEGORY	FROM	STATION TO	OFFSET	ROADWAY	601.0413 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE G LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	SPV.0090.02 CONCRETE CURB & GUTTER HES 6-INCH SLOPED 30-INCH TYPE G LF
PROJECT 5490-00-63									
0010	62"EP"+50	62"EP"+70	8.0' LT	STH 30 WB	--	--	20	--	--
	62"EP"+70	62"EP"+77	6.0' LT	STH 30 WB	--	--	--	64	--
	10"F"+00	11"F"+09	17.0' RT	FAIR OAKS WB EXIT RAMP	--	129	--	--	--
	15"A"+78	21"A"+00	LT	STOUGHTON RD EB EXIT RAMP	--	--	--	--	522
	21"A"+13	21"A"+18	0.7' RT	STOUGHTON RD EB EXIT RAMP	--	--	--	--	5
	28"E"+65	29"E"+43	RT	STOUGHTON RD WB ENTRANCE RAMP	--	86	--	--	--
	15"D"+43	15"D"+59	32.4' LT	STOUGHTON RD WB EXIT RAMP	16	--	--	--	--
	19"D"+17	19"D"+47	23.3' LT	STOUGHTON RD WB EXIT RAMP	30	--	--	--	--
PROJECT 5490-00-63 TOTALS					46	215	20	64	527

CONCRETE BARRIER WALL

CATEGORY	ROADWAY	FROM	TO	204.0157 REMOVING CONCRETE BARRIER LF	SPV.0090.03 CONCRETE BARRIER SINGLE-FACED 32-INCH, HES LF
0010	STH 30 WB	71"EP"+00	73"EP"+16	216	216
	STH 30 WB	76"EP"+99	77"EP"+97	98	98
	STH 30 WB	79"EP"+99	80"EP"+24	25	25
	STOUGHTON RD WB ENTRANCE RAMP	19"E"+00	19"E"+25	25	25
PROJECT 5490-00-63 TOTALS				364	364

HMA PAVEMENT ITEMS

CATEGORY	ROADWAY	DIRECTION	STATION FROM		STATION TO	OFFSET	455.0605 TACK COAT* GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	690.0150 SAWING ASPHALT LF
PROJECT 5490-00-62										
0010	STH 30	WB	55"30"+00	-	55"30"+94	LT	4	--	13	4
	STH 30	WB	57"30"+71	-	61"30"+06	LT	14	--	44	5
	STH 30	WB	57"30"+88	-	61"30"+06	LT	18	--	56	9
SUBTOTAL							36	--	113	17
UNDISTRIBUTED							2	--	6	1
PROJECT 5490-00-62 TOTALS							38	--	119	18
PROJECT 5490-00-63										
0010	STH 30	WB	61"30"+06	-	72"30"+51	LT	39	62	--	--
	STH 30	WB	61"30"+06	-	64"30"+13	LT	20	65	--	--
	STH 30	EB	65"30"+64	-	71"30"+77	RT	23	36	--	--
	STH 30	EB	65"30"+65	-	66"30"+21	RT	10	16	--	--
	STH 30	EB	66"30"+21	-	67"30"+02	RT	6	19	--	--
	STH 30	EB	67"30"+02	-	71"30"+33	RT	28	45	--	--
	STH 30	WB	76"30"+95	-	93"30"+10	LT	56	89	--	--
	STH 30	EB	76"30"+98	-	82"30"+76	RT	34	55	--	--
	STH 30	EB	77"30"+20	-	92"30"+85	RT	50	80	--	--
	STH 30	EB	83"30"+78	-	88"30"+77	RT	35	56	--	--
	STH 30	WB	86"30"+00	-	93"30"+12	LT	42	68	--	--
	STH 30	EB	88"30"+77	-	89"30"+72	RT	7	23	--	--
	STH 30	EB	89"30"+72	-	93"30"+11	RT	27	42	--	--
	STH 30	WB	95"30"+79	-	101"30"+20	LT	34	54	--	--
	STH 30	WB	95"30"+85	-	117"30"+33	LT	72	114	--	--
	STH 30	EB	95"30"+86	-	107"30"+80	RT	90	144	--	--
	STH 30	EB	96"30"+08	-	117"30"+33	RT	72	115	--	--
	STH 30	WB	101"30"+20	-	102"30"+14	LT	7	22	--	--
	STH 30	WB	102"30"+14	-	107"30"+92	LT	37	59	--	--
	STH 30	EB	113"30"+10	-	120"30"+80	RT	50	81	--	--
	STH 30	EB	117"EB"+45	-	133"EB"+13	LT	56	89	--	--
	STH 30	WB	117"WB"+46	-	136"WB"+21	RT	66	106	--	--
	STH 30	WB	118"WB"+08	-	121"WB"+16	LT	21	33	--	--
	STH 30	EB	120"EB"+80	-	121"EB"+56	RT	5	17	--	--
	STH 30	EB	121"EB"+56	-	122"EB"+72	RT	7	11	--	--
	STH 30	EB	123"EB"+94	-	134"EB"+11	RT	78	125	--	--
	STH 30	WB	124"WB"+83	-	136"WB"+22	LT	74	118	--	--
	STH 30	EB	134"EB"+13	-	135"EB"+00	LT	4	12	--	--
	STH 30	EB	134"EB"+11	-	135"EB"+00	RT	7	22	--	--
	STH 30	EB	135"EB"+00	-	136"EB"+50	LT	6	10	--	--
	STH 30	EB	135"EB"+00	-	136"EB"+62	RT	6	9	--	--
	STH 30	WB	138"WB"+05	-	139"WB"+77	RT	6	10	--	--
	STH 30	EB	138"EB"+16	-	165"EB"+96	LT	95	152	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

HMA PAVEMENT ITEMS (CONT.)

CATEGORY	ROADWAY	DIRECTION	STATION FROM		STATION TO	OFFSET	455.0605 TACK COAT* GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	690.0150 SAWING ASPHALT LF
0010	STH 30	EB	138"EB"+32	-	166"EB"+95	RT	131	210	--	--
	STH 30	WB	139"WB"+77	-	140"WB"+82	RT	6	18	--	--
	STH 30	WB	140"WB"+82	-	178"WB"+05	RT	123	198	--	--
	STH 30	WB	145"WB"+17	-	178"WB"+07	RT	234	375	--	--
	STH 30	EB	165"EB"+96	-	166"EB"+74	LT	3	10	--	--
	STH 30	EB	166"EB"+95	-	167"EB"+75	RT	4	13	--	--
	STH 30	EB	166"EB"+74	-	175"EB"+33	LT	30	48	--	--
	STH 30	EB	167"EB"+75	-	169"EB"+18	RT	7	11	--	--
	STH 30	EB	175"EB"+33	-	176"EB"+17	LT	4	12	--	--
	STH 30	EB	171"EB"+43	-	175"EB"+35	RT	23	37	--	--
	STH 30	EB	175"EB"+35	-	176"EB"+25	RT	5	16	--	--
	STH 30	EB	176"EB"+17	-	177"EB"+15	LT	3	6	--	--
	STH 30	EB	176"EB"+25	-	177"EB"+09	RT	3	5	--	--
	FAIR OAKS EXIT RAMP	WB	10"F"+00	-	13"F"+38	LT	21	67	--	21
	STOUGHTON RD EXIT RAMP	EB	11"A"+14	-	20"A"+47	RT	34	55	--	--
	STOUGHTON RD EXIT RAMP	EB	13"A"+94	-	15"A"+78	RT	4	7	--	--
	STOUGHTON RD ENTRANCE RAMP	WB	18"E"+67	-	28"E"+66	RT	34	110	--	--
	STOUGHTON RD ENTRANCE RAMP	WB	23"E"+22	-	28"E"+87	LT	25	81	--	--
	STOUGHTON RD EXIT RAMP	WB	9"D"+94	-	20"D"+61	LT	27	43	--	--
	THOMPSON DR EXIT RAMP	EB	12"M"+71	-	22"M"+25	RT	41	66	--	--
	THOMPSON DR EXIT RAMP	EB	19"M"+96	-	22"M"+25	LT	6	10	--	--
	THOMPSON DR ENTRANCE RAMP	WB	121"N"+16	-	123"N"+06	LT	13	20	--	--
	THOMPSON DR ENTRANCE RAMP	WB	123"N"+06	-	123"N"+99	LT	7	24	--	--
	THOMPSON DR ENTRANCE RAMP	WB	123"N"+99	-	131"N"+52	LT	49	79	--	--
	THOMPSON DR ENTRANCE RAMP	WB	126"N"+84	-	131"N"+52	RT	18	29	--	153
	STH 30/I-90 ENTRANCE RAMP	WB	137"P"+87		145"P"+80	LT	41	65	--	--
	STH 30/I-90 ENTRANCE RAMP	WB	145"P"+80		146"P"+66	LT	5	16	--	--
	STH 30/I-90 ENTRANCE RAMP	WB	146"P"+66		167"P"+51	LT	93	149	--	--
	STH 30/I-90 ENTRANCE RAMP	WB	150"P"+29		167"P"+56	RT	58	93	--	--
SUBTOTAL							2,222	3,832	--	174
UNDISTRIBUTED							112	192	--	9
PROJECT 5490-00-63 TOTALS							2,334	4,024	--	183

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FILE NAME: \\MADW00\INGRPROJ\66034\t1\cds\030201_mq.ppt PLOT DATE : 1/8/2022 3:34:40 PM PLOT BY : HNTB Corp PLOT NAME : 030201_mq9 PLOT SCALE : 1:1

CONCRETE BARRIER TEMPORARY PRECAST ITEMS

CATEGORY	ROADWAY	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	603.8500 ANCHORING CONCRETE BARRIER TEMPORARY LF	603.8505 ANCHORING CONCRETE BARRIER TEMPORARY PRECAST ON BRIDGE DECKS LF	REMARKS
PROJECT 5490-00-62						
0010	STAGE 1					
	STH 30 WB	582	582	63	63	
			--		--	
	STAGE 1 SUBTOTAL	582	582	63	63	
	STAGE 2					
	STH 30 WB	554	554	63	63	
			--		--	
	STAGE2 SUBTOTAL	554	554	63	63	
PROJECT 5490-00-62 TOTALS		1,136	1,136	126	126	
PROJECT 5490-00-63						
0010	STAGE1					
	STH 30 WB	2,828	2,828		--	
					--	
	STAGE 2 SUBTOTAL	2,828	2,828	--	--	
PROJECT 5490-00-63 TOTALS		2,828	2,828	--	--	

CRASH CUSHION TEMPORARY ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	614.0905 CRASH CUSHIONS TEMPORARY EACH	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS
0010	STAGE 1									
	STH 30	89+30 "30"	LT	1	4	OM-3R (WO5-58M)	TL-3	UNIDIRECTIONAL	L	BLUNT END OF TEMPORARY BARRIER
	STAGE 1 SUBTOTAL			1						
0010	STAGE 2									
	STH 30	60+74 "30"	LT	1	4	OM-3R (WO5-58M)	TL-3	UNIDIRECTIONAL	R	BLUNT END OF TEMPORARY BARRIER
	STAGE 2 SUBTOTAL			1						
PROJECT 5490-00-62 TOTAL				2						

3

GUARDRAIL

CATEGORY	ROADWAY	STATION FROM	STATION TO	OFFSET	614.0115 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2 EACH	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0370 STEEL PLATE BEAM GUARD EAT EACH	614.0400 ADJUSTING STEEL PLATE BEAMGUARD LF	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
0010	STH 30	57"30"+67	59"30"+21	LT	--	--	--	154	--	--	--	--	--
		59"30"+21	- 61"30"+46	LT	--	175	1	--	--	--	--	--	--
		66"30"+52	- 67"30"+90	RT	--	88	1	--	--	--	--	--	--
		89"30"+22	- 89"30"+72	RT	--	--	1	--	--	--	--	--	--
		101"30"+20	- 101"30"+70	LT	--	--	1	--	--	--	--	--	--
0010	STH 30	109"30"+98	- 112"30"+05	RT	--	--	--	--	--	157	--	1	1
		109"30"+19	- 112"30"+97	LT	--	--	--	--	--	191	--	1	1
		121"EB"+06	- 123"EB"+23	RT	--	--	--	--	--	166	--	1	1
		134"EB"+49	- 135"EB"+00	RT	--	--	1	--	--	--	--	--	--
0010	STH 30	137"WB"+98	145"WB"+79	LT	--	--	--	781	--	--	--	--	--
		138"WB"+21	139"WB"+77	RT	--	--	--	156	--	--	--	--	--
		138"EB"+28	- 142"EB"+20	LT	--	--	--	393	--	--	--	--	--
		138"EB"+46	144"EB"+67	RT	--	--	--	618	--	--	--	--	--
		139"WB"+77	- 140"WB"+27	RT	--	--	1	--	--	--	--	--	--
0010	STH 30	142"EB"+20	- 142"EB"+59	LT	1	39	--	--	--	--	--	--	--
		144"EB"+67	- 145"EB"+17	RT	1	49	--	--	--	--	--	--	--
		145"WB"+79	- 146"WB"+29	LT	--	--	1	--	--	--	--	--	--
		167"EB"+25	- 169"EB"+18	RT	--	--	--	--	--	144	--	1	1
		166"EB"+24	- 169"EB"+19	LT	--	--	--	--	--	244	--	1	1
0010	STH 30	175"EB"+77	- 176"EB"+89	RT	--	65	1	--	--	--	--	--	--
		175"EB"+66	- 177"EB"+04	LT	--	87	1	--	--	--	--	--	--
		176"EB"+89	179"EB"+92	RT	--	--	--	306	--	--	--	--	--
		177"EB"+04	179"EB"+85	LT	--	--	--	280	--	--	--	--	--
	THOMPSON DR WB ENTRANCE RAMP	121"N"+53	- 123"N"+56	LT	--	--	--	--	--	153	--	1	1
0010	STOUGHTON ROAD WB ENTRANCE RAMP	23"E"+20	- 24"E"+63	LT	--	--	--	--	--	50	39	1	--
	UNDISTRIBUTED				--	--	--	--	35	--	--	--	--
PROJECT SUBTOTALS					2	503	9	2,689	35	1,106	39	7	6
PROJECT 5490-00-63 TOTAL					2	504	9	2,689	35	1,106	40	7	6

3

TRAFFIC CONTROL ITEMS

CATEGORY	ROADWAY	DURATION DAYS	633.1000 DELINEATOR BARRIER WALL EACH	643.5000 TRAFFIC CONTROL EACH	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH*	643.0410 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH*	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 DAYS	SPV.0060.06 REPOSITIONING TRAFFIC CONTROL DEVICES FOR MAINLINE CLOSURES EACH	SPV.0060.07 TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP EACH
PROJECT 5490-00-62																						
	STH 30 WB BRIDGE WORK																					
0010	STAGE 1	28	6	--	2	57	--	--	--	--	--	--	--	--	--	--	3	84	--	--	1	--
	STAGE 2	28	6	--	5	146	--	--	--	--	--	--	5	146	--	--	10	280	--	--	1	--
SUBTOTAL			12	--		203		--		--		--		146		--		364		--	2	--
	FAIR OAKS LOCAL ROAD CLOSURE																					
0010	NB MEDIAN LANE CLOSURE	3	--	--	6	17	2	6	4	12	8	24	--	--	--	--	7	21	--	--	--	--
	SB MEDIAN LANE CLOSURE	3	--	--	5	16	2	6	4	12	8	24	--	--	--	--	8	24	--	--	--	--
SUBTOTAL			--	--	--	33		12		24		48		--		--		45		--	--	--
UNDISTRIBUTED			--	0.08		12		1		1		2		7		--		20		--		--
PROJECT 5490-00-62 TOTAL			12	0.08		248		13		25		50		153		--		429		--	2	--

*FOR INFORMATION ONLY

TRAFFIC CONTROL ITEMS

CATEGORY	ROADWAY	DURATION DAYS	633.1000 DELINEATOR BARRIER WALL EACH	643.5000 TRAFFIC CONTROL EACH	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH*	643.0410 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH*	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 DAYS	SPV.0060.06 REPOSITIONING TRAFFIC CONTROL DEVICES FOR MAINLINE CLOSURES EACH	SPV.0060.07 TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP EACH
PROJECT 5490-00-63																						
	STH 30 WB RAMP CLOSURES, AUX LANE, AND BRIDGE WORK																					
0010	STAGE 1	28	--	--	59	1,658	--	--	11	308	22	616	12	349	2	56	34	952	2	14	--	2
	STAGE 2	28	--	--	77	2,144	--	--	--	--	--	--	13	370	--	--	33	924	--	--	--	6
SUBTOTAL			--	--		3,801		--		308		616		719		56		1,876		14	--	8
	RAMP CLOSURES																					
	THOMPSON DR EB OFFRAMP AND STOUGHTON RD EB OFFRAI	10	--	--	102	1,020	--	--	5	50	--	--	36	360	4	40	15	150	2	14	--	2
SUBTOTAL			--	--	--	1,020		--		50		--		360		40		150		14	--	2
	COMMERCIAL AVE AND THOMPSON DRIVE CLOSURES																					
0010	COMMERCIAL AVE INTERSECTION CLOSURE	1	--	--	11	11	--	--	8	8	16	16	--	--	--	--	23	23	2	2	--	--
	THOMPSON DR WB ONRAMP CLOSURE	3	--	--	--	--	--	--	2	6	4	12	--	--	--	--	12	36	1	3	--	2
SUBTOTAL			--	--	--	11		--		14		28		--		--		59		5	--	2
	STOUGHTON RD EB ONRAMP LANE CLOSURE																					
0010	INSIDE LANE	2	--	--	32	64	--	--	6	12	12	24	--	--	--	--	7	14	--	--	--	--
	OUTSIDE LANE	2	--	--	80	160	--	--	6	12	12	24	--	--	--	--	8	16	--	--	--	--
SUBTOTAL			--	--	--	224		--		24		48		--		--		30		--	--	--
	STOUGHTON RD WB OFFRAMP CLOSURE																					
	STH 30 WB	3	--	--	30	91	--	--	1	3	2	6	17	50	2	6	9	27	1	3	--	1
SUBTOTAL			--	--	--	91		--		3		6		50		6		27		3	--	1
	GUARDRAIL SHOULDER CLOSURES																					
0010	EB SHOULDERS	19	--	--	--	143	--	--	--	--	--	--	--	--	--	18	--	144	--	--	--	--
	WB SHOULDERS	10	--	--	--	85	--	--	--	--	--	--	--	--	--	10	--	80	--	--	--	--
SUBTOTAL			--	--	--	313		--		--		--		--		38		304		--	--	--
	PAVEMENT REPAIR - SINGLE LANE NIGHTLY CLOSURES																					
0010	CONCRETE REPAIRS EB	10	--	--	118	1,178	--	--	6	60	12	120	16	156	2	20	14	140	--	--	10	--
	CONCRETE REPAIRS WB	10	--	--	118	1,178	--	--	6	60	12	120	16	156	2	20	14	140	--	--	10	--
0010	ASPHALT MILL AND OVERLAY EB	10	--	--	118	1,178	--	--	6	60	12	120	16	156	2	20	14	140	--	--	10	--
	ASPHALT MILL AND OVERLAY WB	10	--	--	118	1,178	--	--	6	60	12	120	16	156	2	20	14	140	--	--	10	--
	APPROACH SLAB REPAIRS EB	3	--	--	118	353	--	--	6	18	12	36	16	47	2	6	14	42	--	--	3	--
	APPROACH SLAB REPAIRS EB	3	--	--	118	353	--	--	6	18	12	36	16	47	2	6	14	42	--	--	3	--
SUBTOTAL			--	--	--	5,419		--		276		552		718		92		644		--	46	--
	DETOUR SIGNING																					
0010	STOUGHTON RD WB OFFRAMP CLOSURE	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24	240	2	20	--	--
	STOUGHTON RD EB OFFRAMP CLOSURE	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24	72	1	3	--	--
	STOUGHTON RD WB ONRAMP CLOSURE	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37	1,036	--	--	--	--
	IH 90/94 NB TO STH 30 WB RAMP CLOSURE	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30	60	1	7	--	--
SUBTOTAL			--	--		--		--		--		--		--		--		1,348		23	--	--
UNDISTRIBUTED				0.92		489		--		31		62		72		9		213		20	5	10
PROJECT 5490-00-63 TOTAL			--	0.92		11,368		--		706		1,312		1,919		241		4,651		79	51	23

*FOR INFORMATION ONLY

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TRAFFIC CONTROL COVERING SIGNS ITEMS

CATEGORY	ROADWAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE 1 EACH*	CYCLES	SIGNS
PROJECT 5490-00-62				
	STH 30 WB BRIDGE WORK			
0010	STAGE 1	2	1	2
SUBTOTAL		2		
PROJECT 5490-00-62 TOTAL		2		
PROJECT 5490-00-63				
	STH 30 WB RAMP CLOSURES, AUX LANE, AND BRIDGE WORK			
0010	STAGE 1	3	1	3
SUBTOTAL		3		
	RAMP CLOSURES			
0010	THOMPSON DR EB OFFRAMP AND STOUGHTON RD EB OFFRAMP	3	1	3
SUBTOTAL		3		
	STOUGHTON RD WB OFFRAMP CLOSURE			
0010	STH 30 WB	2	1	2
SUBTOTAL		2		
PROJECT 5490-00-63 TOTAL		8		

*FOR INFORMATION ONLY

FILE NAME: \\MADW00\INGRPROJ\66034\t1\cds\030201_mq.ppt PLOT DATE : 1/7/2022 9:11:53 AM PLOT BY : HNTB Corp PLOT NAME : 030201_mq14 PLOT SCALE : 1:1

EROSION CONTROL

CATEGORY	ROADWAY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENENCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
PROJECT 5490-00-62									
0010	STA 59+11 to STA 62+27 WB	197	197	153	--	--	--	--	6
	UNDISTRIBUTED	10	10	8	1	4	--	--	6
PROJECT 5490-00-62 TOTAL		206	206	161	1	4	--	--	12
PROJECT 5490-00-63									
0010	STA 65+56 to STA 68+09 EB	257	257	85	--	--	--	--	--
	STA 70+82 to STA 73+34 WB	255	255	261	--	--	--	--	--
	STA 76+81 to STA 78+15 WB	138	138	132	--	--	--	--	--
	STA 79+81 to STA 80+41 WB	65	65	51	--	--	--	--	--
	STA 87+96 to STA 89+81 EB	195	195	110	--	--	--	--	--
	STA 101+09 to STA 102+86 WB	199	199	171	--	--	--	--	--
	STA 108+85 to STA 112+15 EB	--	--	218	--	--	--	--	--
	STA 109+14 to STA 112+74 WB	--	--	250	--	--	--	--	--
	STA 120+08 to STA 123+36 EB	335	335	119	--	--	--	--	--
	STA 133+56 to STA 135+03 EB	182	182	332	--	--	--	--	--
	STA 139+60 to STA 140+95 WB	139	139	186	--	--	--	--	--
	STA 142.09 to STA 142+73 EB	68	68	6	--	--	--	--	--
	STA 144+56 to STA 145+29 EB	80	80	6	--	--	--	--	--
	STA 145+70 to STA 147+25 WB	159	159	135	--	--	--	--	--
	STA 165+36 to STA 169+28 EB	398	398	233	--	--	--	--	--
	STA 165+95 to STA 169+26 EB	338	338	41	--	--	--	--	--
	STA 174+74 to STA 177+12 EB	238	238	34	--	--	--	--	--
	STA 174+74 to STA 177+12 EB	169	169	233	--	--	--	--	--
	STA 9+89 to STA 13+47 Ramp F	361	361	174	--	--	--	--	--
	STA 18+82 to STA 19+44 Ramp E	65	65	51	--	--	54	--	--
	STA 21+24 to STA 28+66 Ramp E	649	649	1,121	--	--	18	--	--
	STA 23+22 to STA 28+95 Ramp E	592	592	275	--	--	--	--	--
	STA 121+67 to STA 124+65 Ramp N	301	301	122	--	--	--	--	--
	STH 30 EB/WB	0	0	0	36	27	72	3	6
	UNDISTRIBUTED	259	259	217	--	--	--	--	6
PROJECT 5490-00-63 TOTAL		5,442	5,442	4,562	36	27	144	3	12

3

TEMPORARY PAVEMENT MARKINGS

CATEGORY	ROADWAY	DIRECTION	649.0155 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH LF
PROJECT 5490-00-62			
0010 STAGE 1			
	STH 30	EB	--
		WB	764
SUBTOTAL			764
0010 STAGE 2			
	STH30	EB	0
		WB	783
SUBTOTAL			783
PROJECT 5490-00-62 SUBTOTAL			1,547
	UNDISTRIBUTED		77
PROJECT 5490-00-62 TOTAL			1,624
PROJECT 5490-00-63			
0010 STAGE 1			
	STH 30	EB	--
		WB	1,438
SUBTOTAL			1,438
0010 STAGE 2			
	STH30	EB	2,042
		WB	4,033
SUBTOTAL			6,075
0010 SINGLE LANE CLOSURES			
	CONCRETE REPAIRS	EB	780
		WB	780
	ASPHALT REPAIRS	EB	780
		WB	780
SUBTOTAL			3,120
PROJECT 5490-00-63 SUBTOTAL			10,632
	UNDISTRIBUTED		532
PROJECT 5490-00-63 TOTAL			11,164

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

COLD PATCH

CATEGORY	ROADWAY	495.1000.S COLD PATCH TONS
0010	UNDISTRIBUTED	5
PROJECT 5490-00-63 TOTAL		5

MOBILIZATION

CATEGORY	ROADWAY	619.1000 MOBILIZATION EACH
PROJECT 5490-00-62		
0010	STH 30 EB/WB	0.08
PROJECT 5490-00-62 TOTAL		0.08
PROJECT 5490-00-63 TOTAL		
0010	STH 30 EB/WB	0.92
PROJECT 5490-00-63 TOTAL		0.92

VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS

CATEGORY	ROADWAY	SPV.0060.09 EACH
0010	STH 30	3
PROJECT 5490-00-63 TOTALS		3

3

FIELD OFFICE TYPE D

CATEGORY	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
0010	STH 30 EB/WB	1
PROJECT 5490-00-63 TOTAL		1

VERIFY LANDMARK REFERENCE MONUMENTS

CATEGORY	ROADWAY	STATION	OFFSET	RT/LT	SPV.0060.08 EACH
0010	STH 30	43"30"+82.80	7.01	LT	1
	STH 30	95"30"+80.07	9.26	LT	1
	STH 30	96"30"+53.79	10.36	LT	1
	STH 30	121"30WB"+51.66	33.85	LT	1
PROJECT 5490-00-63 TOTALS					4

ITS

CATEGORY	LOCATION	652.0800 CONDUIT LOOP DETECTOR LF	655.0800 LOOP DETECTOR WIRE LF	204.9060.S.01 REMOVE LOOP DETECTOR WIRE EACH
0010	STOUGHTON RD EB EXIT RAMP	50	160	1
	STOUGHTON RD EB ENTRANCE RAMP	50	160	1
	STOUGHTON RD WB ENTRANCE RAMP	50	160	1
	STOUGHTON RD WB EXIT RAMP	50	160	1
PROJECT 5490-00-63 TOTAL		200	640	4

FILE NAME: \\MADW00\INGRPROJ\66034\t1\cds\030201_mq.ppt PLOT DATE : 1/11/2022 9:38:40 AM PLOT BY : HNTB Corp PLOT NAME : 030201_mq17 PLOT SCALE : 1:1

PAVEMENT MARKING ITEMS

CATEGORY	STAGE	ROADWAY	DIRECTION	SEGMENT	STATION FROM		STATION TO	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH YELLOW LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.7220 MARKING CHEVRON EPOXY 24-INCH WHITE LF	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF
PROJECT 5490-00-62																
	STAGE 3															
0010		STH 30	WB		55+24 "30"	-	61+93 "30"	17	615	220	245	--		1,522	--	--
STAGE 3 SUBTOTAL								632		464		--	--	1,522	--	
UNDISTRIBUTED								32		23		--	--	76	--	
PROJECT 5490-00-62 TOTALS								664		488		--	--	1,599	--	
PROJECT 5490-00-63																
	STAGE 3															
0010		STH 30	EB	FAIR OAKS RD TO WISCONSIN AND SOUTHERN RR	61+93 "30"	-	73+26 "30"	18	45	--	--	--	--	--	--	--
			WB		61+93 "30"	-	73+26 "30"	21	1,967	--	--	618	143	776	330	
		STH 30	EB	WISCONSIN AND SOUTHERN RR TO N STOUGHTON RD	76+99 "30"	-	93+23 "30"	573	355	--	--	971	312	--	558	30
			WB		76+99 "30"	-	93+23 "30"	762	2,584	--	--	570	--	575	128	
		STH 30	EB	N STOUGHTON RD TO END OF ALI 30	95+79 "30"	-	117+33 "30"	12	40	--	--	--	--	--	--	--
			WB		95+79 "30"	-	117+33 "30"	302	824	--	--	349	162	29	--	--
		STH 30	EB	END OF ALI 30 TO END	117+45 "30EB"	-	134+74 "30EB"	49	250	--	--	210	498	--	--	130
			WB		118+08 "30WB'	-	140+00 "30WB"	593	617	--	--	31	--	--	--	--
				CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT LOCATIONS		-		--	3,464	--	--	--	--	--	--	--
STAGE 3 SUBTOTAL								12,475		--		2,748	1,115	1,380	1,016	160
UNDISTRIBUTED								624		--		137	56	69	51	8
PROJECT 5490-00-63 TOTALS								13,099		--		2,886	1,171	1,450	1,067	168

CONSTRUCTION STAKING RESURFACING REFERENCE

CATEGORY	ROADWAY	STATION		STATION	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.7500 CONSTRUCTION STAKING CONCRETE BARRIER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF
0010	FAIR OAKS RD WB EXIT RAMP	10"F"+00	-	12"F"+52	252	--	252	--	252
	STH 30 WB	71"EP"+00	-	73"EP"+16	216	20	216	216	216
	STH 30 WB	77"EP"+04	-	83"EP"+16	612	--	612	123	612
	STOUGHTON RD EB EXIT RAMP	15"A"+78	-	21"A"+18	--	--	--	--	--
	STOUGHTON RD WB ENTRANCE RAMP	18"E"+67	-	29"E"+45	1,078	--	1,078	--	1,078
	STOUGHTON RD WB EXIT RAMP	19"D"+17	-	19"D"+47	--	--	--	--	--
PROJECT 5490-00-63 TOTALS					2,158	20	2,158	339	2,158

CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT

CATEGORY	ROADWAY	STATION FROM		STATION TO	LOCATION	SPV.0090.04 CONCRETE PAVEMENT REPAIR LONGITUDINAL JOINT LF	416.0610 DRILLED TIE BARS* EACH	690.0250 SAWING CONCRETE* LF	REMARKS
PROJECT 5490-00-63									
0010	STH 30	65"30"+00	-	65"30"+60	RT	60	40	120	JOINT BETWEEN EB LANES 1 & 2
		71"30"+00	-	72"30"+00	LT	100	67	200	JOINT BETWEEN WB LANES 1 & 2
		77"30"+00	-	81"30"+50	LT	200	133	400	200 LF TOTAL REPAIRS
		78"30"+50	-	79"30"+40	RT	90	60	180	JOINT BETWEEN EB LANES 1 & 2
		83"30"+00	-	85"30"+00	LT	150	100	300	150 LF TOTAL REPAIRS
		85"30"+80	-	86"30"+20	LT	40	27	80	JOINT BETWEEN WB LANES 1 & 2
		86"30"+50	-	87"30"+00	LT	50	33	100	JOINT BETWEEN WB LANES 1 & 2
		87"30"+50	-	88"30"+50	LT	100	67	200	JOINT BETWEEN WB LANES 1 & 2
		91"30"+00	-	93"30"+40	LT	200	133	400	200 LF TOTAL REPAIRS
		92"30"+25	-	92"30"+55	RT	30	20	60	JOINT BETWEEN EB LANES 1 & 2
		97"30"+75	-	110"30"+00	LT	1,000	667	2,000	1,000 LF TOTAL REPAIRS
		99"30"+30	-	99"30"+75	RT	45	30	90	JOINT BETWEEN EB LANES 1 & 2
		101"30"+50	-	101"30"+80	RT	30	20	60	JOINT BETWEEN EB LANES 1 & 2
		109"30"+00	-	118"30"+00	RT	500	333	1,000	JOINT BETWEEN AUX LANE AND SHOULDER; 500 LF TOTAL REPAIRS
		114"30"+00	-	136"30"+25	RT	600	400	1,200	600 LF TOTAL REPAIRS
		124"30"+50	-	125"30"+40	LT	90	60	180	JOINT BETWEEN WB LANES 1 & 2
		132"30"+25	-	132"30"+55	LT	30	20	60	JOINT BETWEEN WB LANES 1 & 2
	STOUGHTON RD EB ENTRANCE RAMP	110"C"+00	-	113"C"+50	RT	400	267	800	400 LF TOTAL REPAIRS BETWEEN RAMP LANES
		110"C"+00	-	113"C"+50	RT	300	200	600	300 LF TOTAL REPAIRS BETWEEN OUTSIDE RAMP LANE & OUTSIDE SHOULDER
		110"C"+00	-	113"C"+50	RT	350	233	700	JOINT BETWEEN EB LANES 3 & TAPERED RAMP LANE
	STOUGHTON RD WB EXIT RAMP	9"D"+39	-	22'D"+87	RT	700	467	1,400	700 LF TOTAL REPAIRS BETWEEN RAMP LANES & RAMP LANES AND OUTSIDE SHOULDERS.
PROJECT 5490-00-63 TOTALS						5,065	3,377	10,130	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SECURING STRUCTURE COVERS

CATEGORY	ROADWAY	STATION	SPV.0060.04 SECURING STRUCTURE COVERS EACH
PROJECT 5490-00-62			
0010	STH 30 WB	55"30"+88	1
PROJECT 5490-00-62 TOTALS			1

REPAIRING INLET

CATEGORY	ROADWAY	STATION	SPV.0060.05 REPAIRING INLET EACH
PROJECT 5490-00-63			
0010	STH 30 WB	55"30"+88	1
	STOUGHTON RD WB EXIT RAMP	10"D"+49	1
PROJECT 5490-00-63 TOTALS			2

SAWING CURB HEAD

CATEGORY	ROADWAY	STATION FROM		STATION TO	OFFSET	SPV.0090.01 SAWING CURB HEAD LF
PROJECT 5490-00-63						
0010	STH 30	108"30"+93	-	110"30"+48	RT	155
	STH 30	111"EB"+24	-	112"EB"+65	LT	145
PROJECT 5490-00-63 TOTALS						300

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

AT&T UNDERGROUND FIBER OPTICS

STH 30 WB OUTSIDE SHOULDER
CROSS SLOPE TRANSITIONS

CROSS SLOPE TRANSITION FOR OUTSIDE SHOULDER

61"EP"+75	4.0%	
62"EP"+00	2.0%	BEGIN C&G
62"EP"+75	2.0%	END C&G/BEGIN GORE

CITY OF MADISON WATERMAIN

STH 30 WB OUTSIDE SHOULDER
CROSS SLOPE TRANSITIONS

CROSS SLOPE TRANSITION FOR OUTSIDE SHOULDER

72"EP"+95	4.0%	
73"EP"+16	2.0%	RR BRIDGE

N

BEGIN CONSTRUCTION
STA 10F+00.00

COMMERCIAL AVE

MMSD SANITARY

END CONSTRUCTION
STA 13F+38.00

FAIR OAKS WB EXIT RAMP

MMSD SANITARY

STH 30 WB

STH 30 EB

R/L "EP"

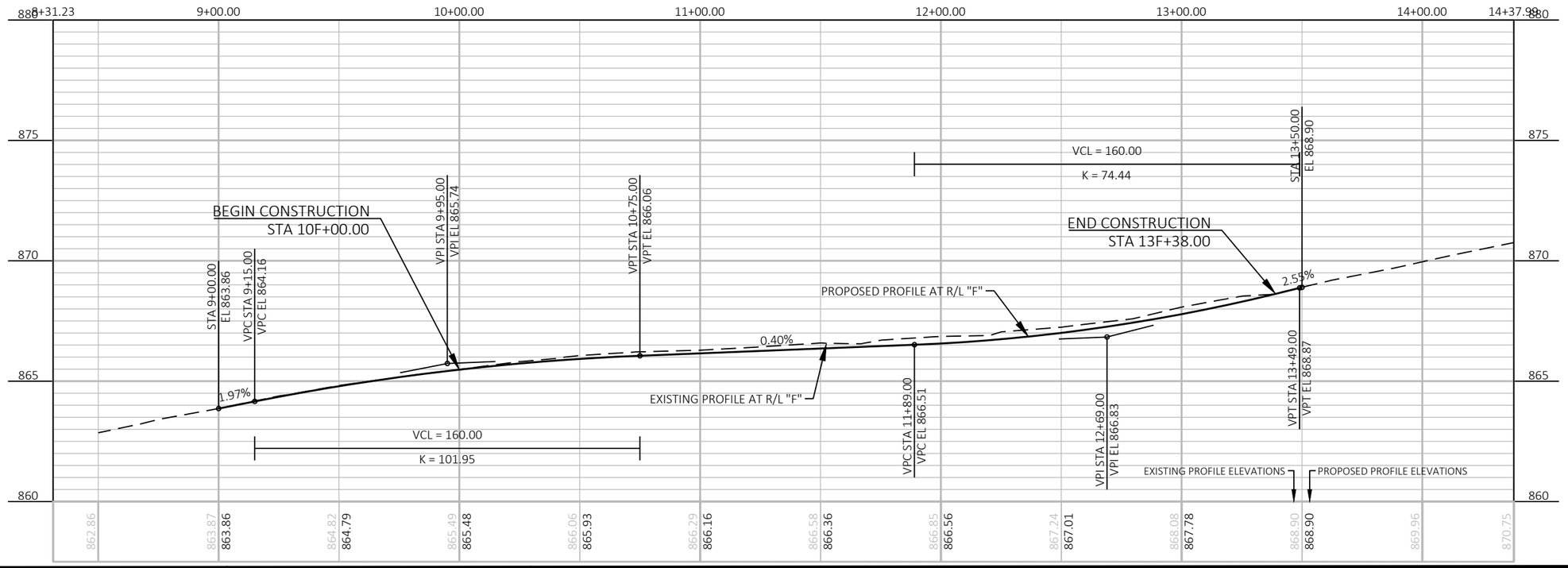
R/L "F"

R/L "F"

R/L "30"

5

5



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN AND PROFILE: FAIR OAKS WB EXIT RAMP	SHEET 125	E

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

MMSD SANITARY

9 "F"

FAIR OAKS WB EXIT RAMP

10 "F"

11 "F"

12 "F"

13 "F"

MMSD SANITARY

865.48 865.73 865.93 866.06 866.16 866.26 866.36 866.46 866.56 866.74 867.01 867.35 867.78 868.30

865.78 866.03 866.23 866.36 866.46 866.56 866.66 866.76 866.86 867.04 867.47 868.00 867.78 868.30

866.79 866.73

62 "EP" 63 "EP" 64 "EP"

8'

5'

R/L "EP"

R/L "F"

STH 30 WB

58 "30" 59 "30" 60 "30" 61 "30" 62 "30" 63 "30" 64 "30" 65 "

CITY OF MADISON STORM SEWER

STH 30 EB

4'

R/L "30"

5'

MATCHLINE STA 65+00.00 "30"

WISDOT COMMUNICATION

AT&T, ATC AND WISDOT
UNDERGROUND FIBER OPTIC

FAIR OAKS EB ENTRANCE RAMP

COMMERCIAL AVE

N

5

5

57+50.00 58+00.00 59+00.00 60+00.00 61+00.00 62+00.00 63+00.00 64+00.00 65+00.00

880 875 870 865 860

868.12 867.22 866.90 866.86 867.03 867.45 868.17 869.07

EXISTING AND PROPOSED PROFILE AT "EP"

EXISTING PROFILE ELEVATION

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN AND PROFILE: STH 30 WB	SHEET 126	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\50101-PP.DWG
LAYOUT NAME - 50102-pp

PLOT DATE : 7/29/2021 12:21 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : Custom

COMMERCIAL AVE

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

R-13-36

R/L "F"

CITY OF MADISON WATERMAIN

14 "F"

62	869.59	870.08	870.55	871.04	871.52	872.01	872.51	873.02	873.53	874.04	874.55	875.06	875.56	876.07	876.56	877.05	877.49	877.88	877.97	878.32	878.67	879.01	879.30	879.57	879.82	880.06	880.23	880.35	880.48	880.58
EP"				66 "EP"				67 "EP"				68 "EP"				69 "EP"								71 "EP"				72 "EP"		
69	869.59	870.08	870.55	871.04	871.52	872.01	872.51	873.52	873.53	874.04	874.55	875.06	875.56	876.07	876.56	877.05	877.49	877.88	878.29	878.66	878.98	879.32	879.58	879.85	880.06	880.30	880.47	880.59	880.72	880.77

879.27 879.48 879.73 879.90 880.03 880.17 880

9'

12"

BEGIN CONSTRUCTION
STA 65 "EP"+00

STH 30 WB

R/L "EP"

4"

30" 66 "30" 67 "30" 68 "30" 69 "30" 70 "30" 71 "30" 72 "30"

4"

STH 30 EB

R/L "30"

ATC OVERHEAD ELECTRIC

9'

ATC UNDERGROUND FIBER OPTIC

CITY OF MADISON SANITARY

AT&T, ATC AND WISDOT
UNDERGROUND FIBER OPTIC

MATCHLINE STA 65+00.00 "30"

MATCHLINE STA 72+50.00 "30"

N

5

5

65+00.00 66+00.00 67+00.00 68+00.00 69+00.00 70+00.00 71+00.00 72+00.00 72+50.00

885
880
875
870
865

EXISTING AND PROPOSED PROFILE AT "EP"

EXISTING PROFILE ELEVATION

BEGIN CONSTRUCTION
STA 65"EP"+00.00

869.07	870.06	871.04	872.01	873.03	873.98	874.92	875.87	876.81	877.76	878.66	879.24	879.78	880.30	880.59	880.79

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN AND PROFILE: STH 30 WB	SHEET 127	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\50101-PP.DWG
LAYOUT NAME - 50103-pp

PLOT DATE : 7/29/2021 12:24 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 44

N

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

LUMEN/CENTURYLINK
UNDERGROUND FIBER OPTIC
ATC OVERHEAD ELECTRIC

MATCHLINE STA 72+50.00 "30"

30 880.40 880.41 880.59
61 880.71 880.97 880.73

73 "EP" 74 "EP" 75 "EP" 76 "EP" 77 "EP" 78 "EP" 79 "EP" 80 "EP"

877.64 877.20 876.87 876.53 875.98 875.92 875.42 875.21 874.69 874.37 873.78 873.57 873.16
877.79 877.51 877.17 876.84 876.49 876.08 875.66 875.34 875.02 874.69 874.36 873.99 873.62
877.86 877.58 877.26 876.95 876.63 876.24 875.85 875.54 875.24 874.92 874.61 874.25 873.89
878.10 877.82 877.50 877.22 876.93 876.57 876.21 875.90 875.60 875.28 874.97 874.61 874.25

END CONSTRUCTION
STA 73 "EP"+26

STH 30 WB

BEGIN CONSTRUCTION
STA 76 "EP"+83

R/L "EP"

73 "30" 74 "30" 75 "30" 76 "30" 77 "30" 78 "30" 79 "30" 80 "30"

STH 30 EB

ATC AND WISDOT
OVERHEAD ELECTRIC

R/L "30"

R/L "A"

7 "A" 8 "A"

WISDOT LIGHTING

RIPRAP

5

5

72+50.00 73+00.00 74+00.00 75+00.00 76+00.00 77+00.00 78+00.00 79+00.00 80+00.00

885 880 875 870 865

END CONSTRUCTION
STA 73"EP"+26.00

BEGIN CONSTRUCTION
STA 76"EP"+83.00

EXISTING AND PROPOSED PROFILE AT "EP"

EXISTING PROFILE ELEVATION

880.79 880.95 880.98 880.96 880.69 880.36 879.99 879.52 878.88 878.26 877.59 876.93 876.26 875.60 874.94 874.27

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN AND PROFILE: STH 30 WB	SHEET 128	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\50101-PP.DWG
LAYOUT NAME - 50104-pp

PLOT DATE : 7/29/2021 12:26 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 44

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

STH 30 WB OUTSIDE SHOULDER
CROSS SLOPE TRANSITIONS

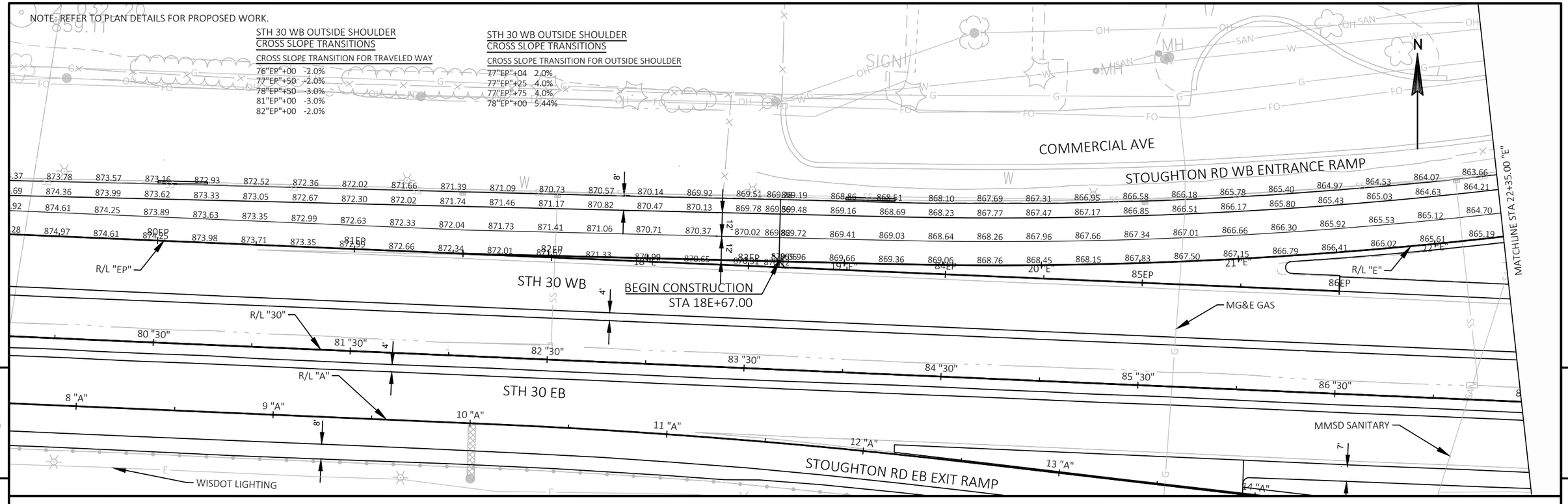
CROSS SLOPE TRANSITION FOR TRAVELED WAY

76"EP"+00 -2.0%
77"EP"+50 -2.0%
78"EP"+50 -3.0%
81"EP"+00 -3.0%
82"EP"+00 -2.0%

STH 30 WB OUTSIDE SHOULDER
CROSS SLOPE TRANSITIONS

CROSS SLOPE TRANSITION FOR OUTSIDE SHOULDER

77"EP"+04 2.0%
77"EP"+25 4.0%
77"EP"+75 4.0%
78"EP"+00 5.44%



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	PLAN AND PROFILE: STOUGHTON RD WB ENTRANCE RAMP	SHEET 129	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\50105-PP.DWG
LAYOUT NAME - 50106-pp

PLOT DATE : 7/29/2021 12:29 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTE: REFER TO PLAN DETAILS FOR PROPOSED WORK.

MATCHLINE STA 22+35.00 "E"

MG&E GAS

COMMERCIAL AVE

MMSD SANITARY

WISDOT LIGHTING

WINDSTREAM UNDERGROUND FIBER OPTIC

WISDOT COMMUNICATION

STOUGHTON RD

N

STOUGHTON RD WB ENTRANCE RAMP

R/L "E"

WISDOT LIGHTING

END CONSTRUCTION
STA 29E+45.00

MMSD SANITARY

CITY OF MADISON WATER WATERMAIN

STH 30 WB

R/L "30"

STOUGHTON RD WB
ENTRANCE RAMP
CROSS SLOPE TRANSITIONS

CROSS SLOPE TRANSITIONS

28"E"+50	2.0%
29"E"+00	1.4%
29"E"+45	0.8%

22+25.00 23+00.00 24+00.00 25+00.00 26+00.00 27+00.00 28+00.00 29+00.00 29+50.00

PROPOSED PROFILE AT R/L "E"

VPT STA 24+30.00
VPT EL 861.17

VCL = 420.00
K = 421.94

-2.20%

VCL = 300.00
K = 94.02

EXISTING PROFILE AT R/L "E"

VPC STA 26+17.00
VPC EL 857.05

VPI STA 27+67.00
VPI EL 853.75

VPT STA 29+17.00
VPT EL 855.23

STA 29+45.03
EL 855.51

END CONSTRUCTION
STA 29E+45.00

0.99%

EXISTING PROFILE ELEVATIONS

PROPOSED PROFILE ELEVATIONS

| | | |

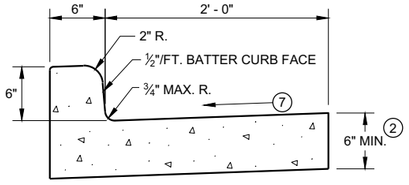
Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
09B02-10	CONDUIT
09F04-05	LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX
09F09-05	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)
09F14-03	LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULL BOX 45 DEGREE ELBOWS TO PULL BOX
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
11B02-02	CONCRETE MEDIAN NOSE
13A03-06	CONCRETE PAVEMENT SHOULDERS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-15A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B22-06A	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)
14B22-06B	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

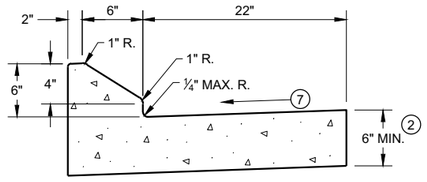
6

Standard Detail Drawing List

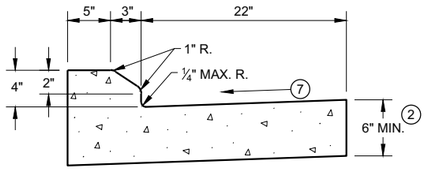
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A04-06B	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C31-04A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-04B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-04C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D40-02B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D40-02D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS



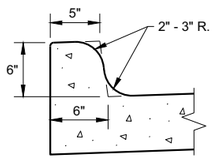
TYPES A (1) & D



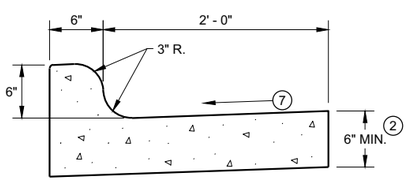
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

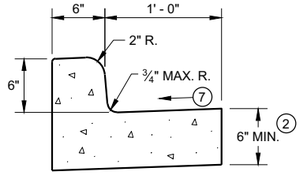


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



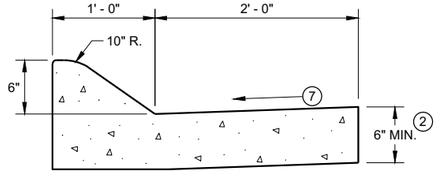
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

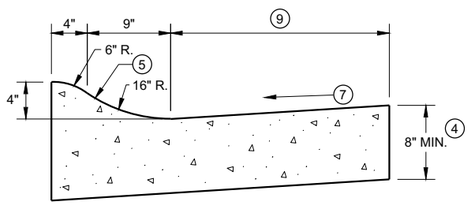
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

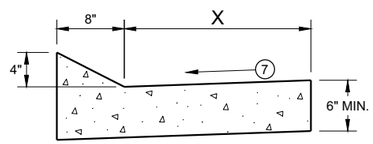
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

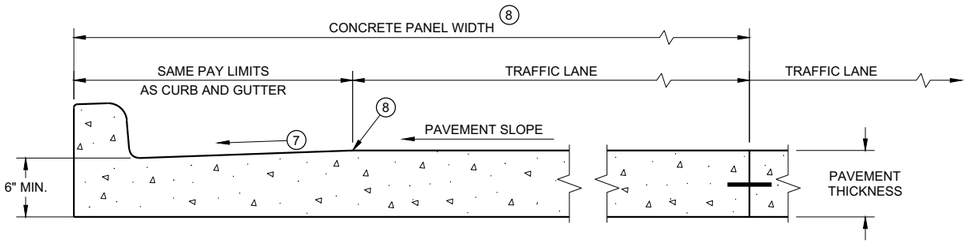


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

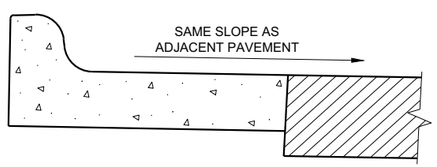
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

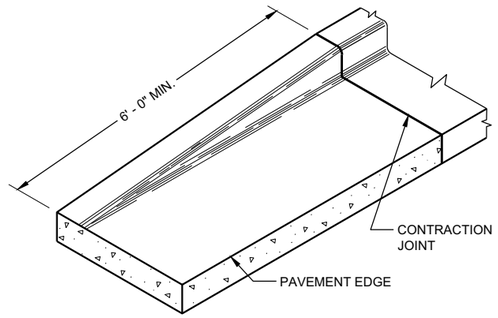
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

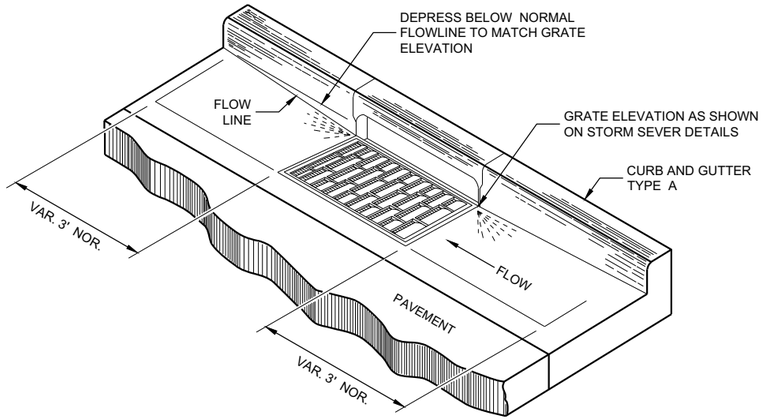
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

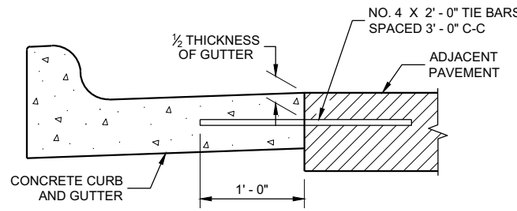
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

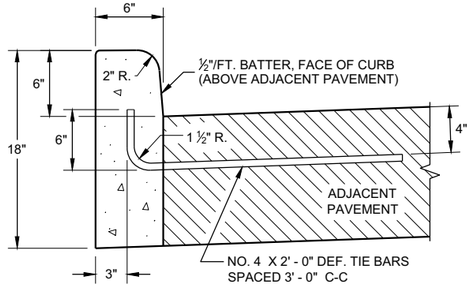
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

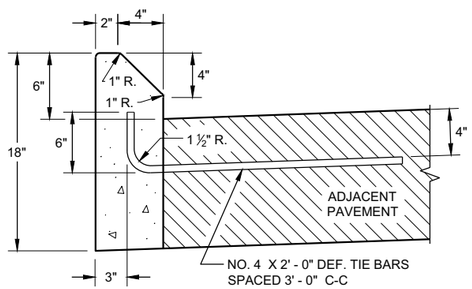
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

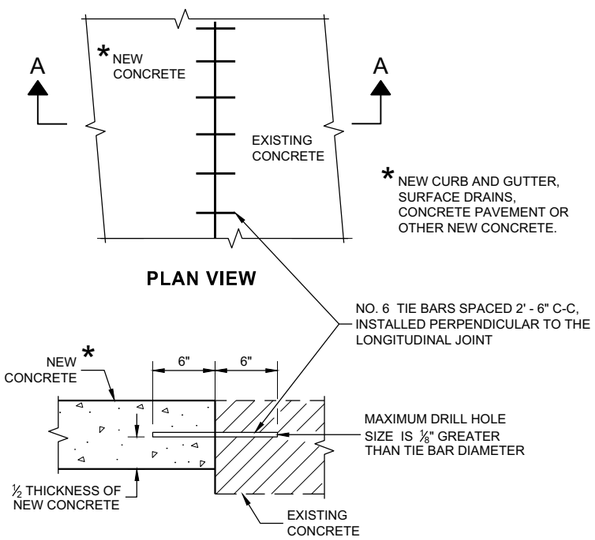


TYPES A (1) & D



TYPES G (1) & J

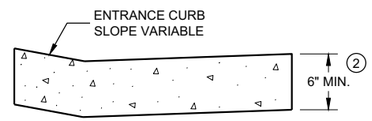
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

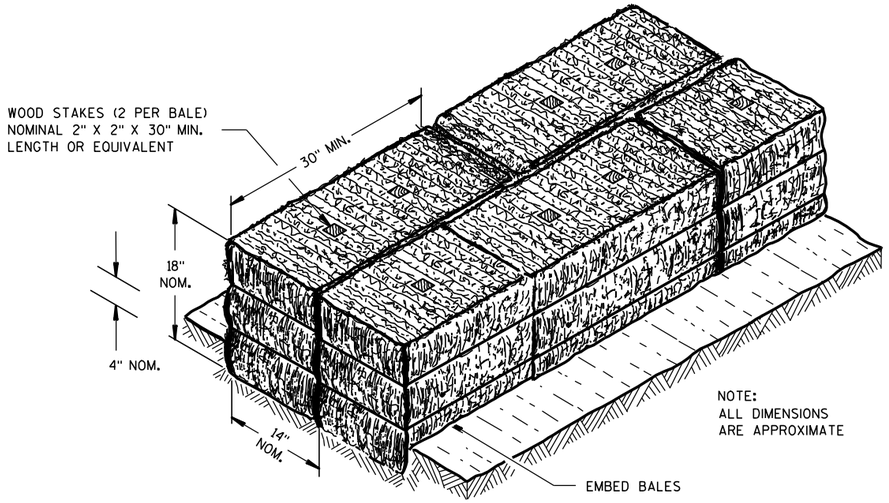
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

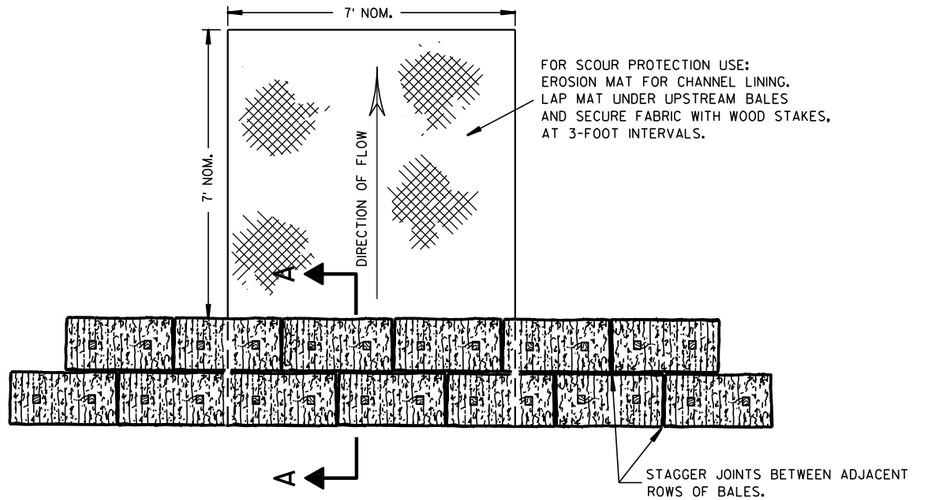
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

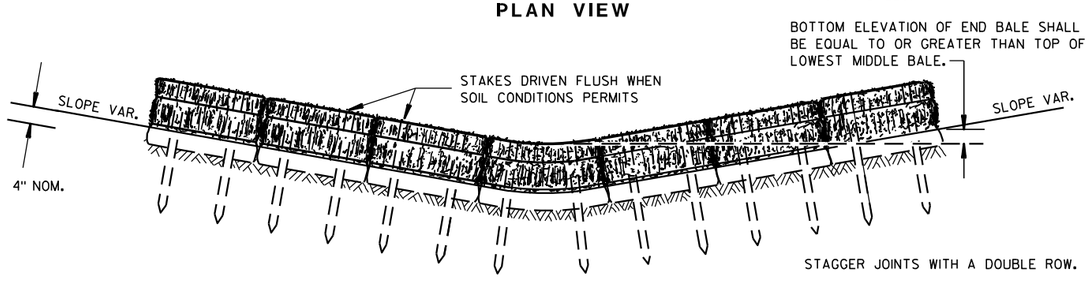
SDD08D01 - 22b



SECTION A-A



PLAN VIEW



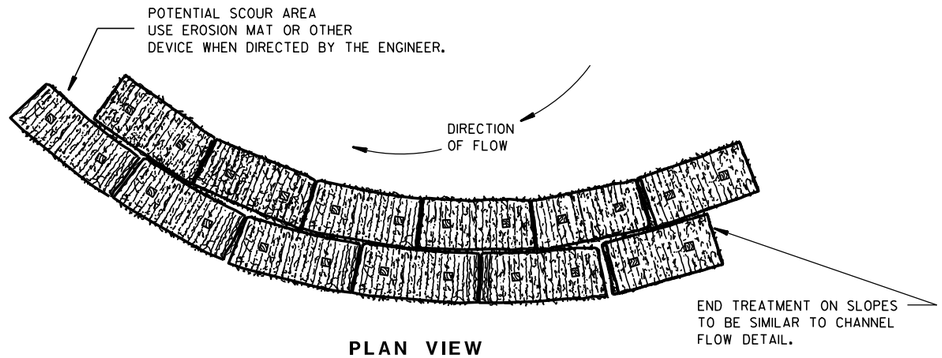
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

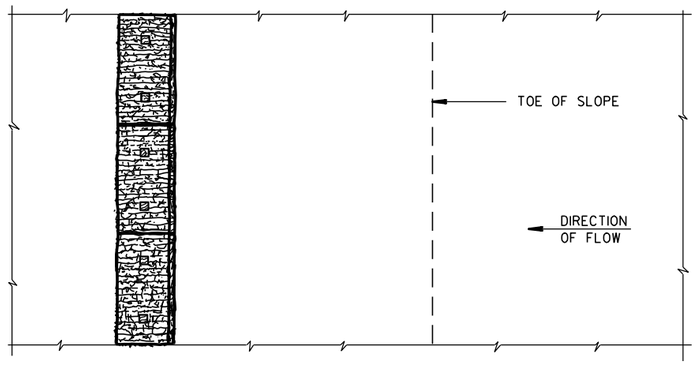
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

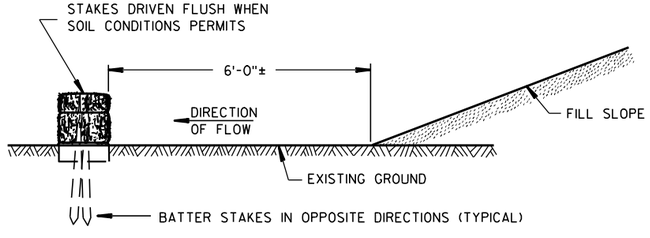


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

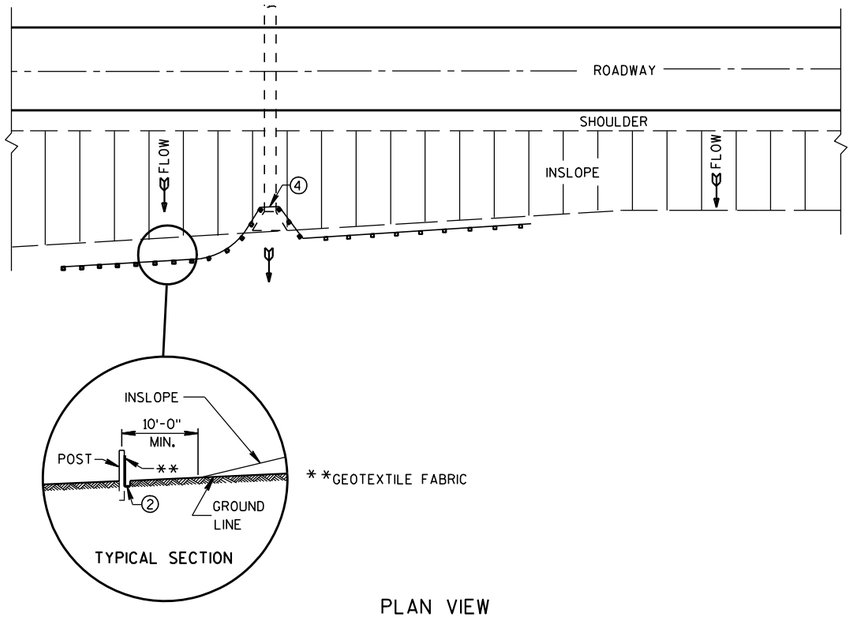
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

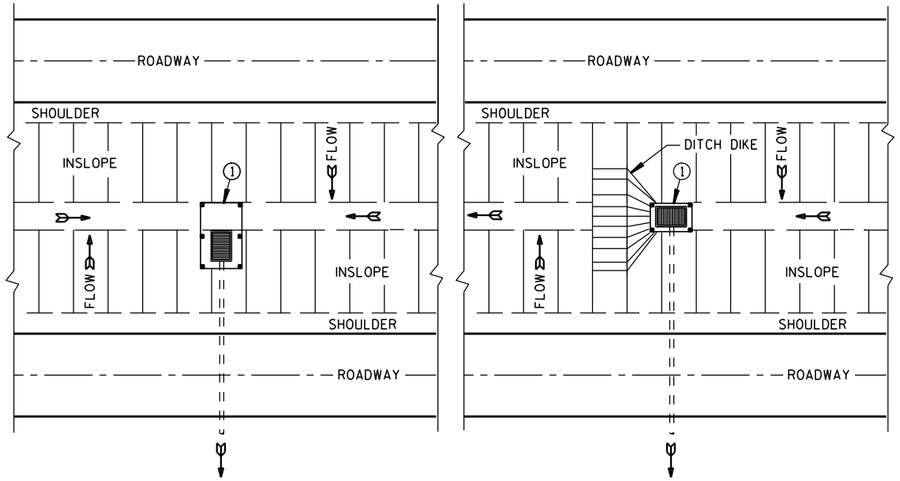
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



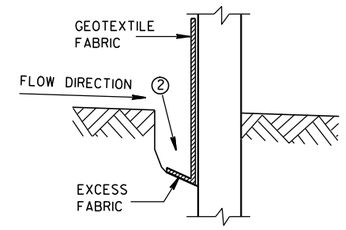
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

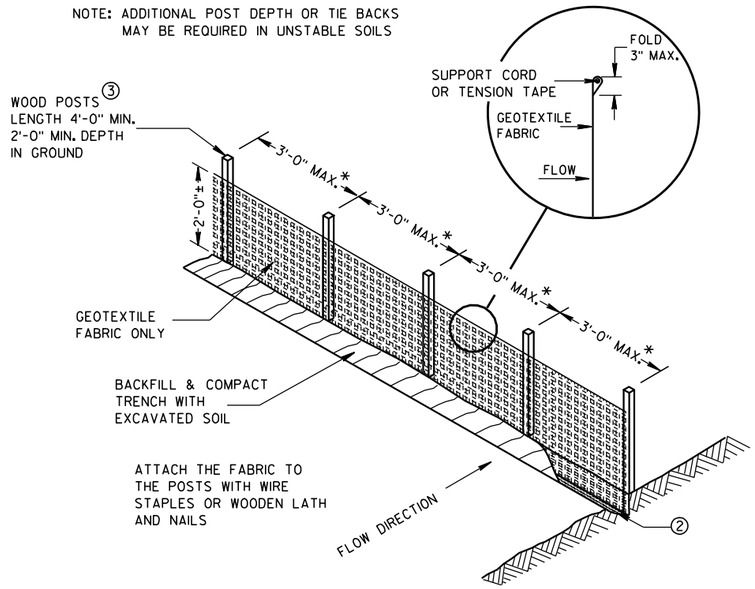
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

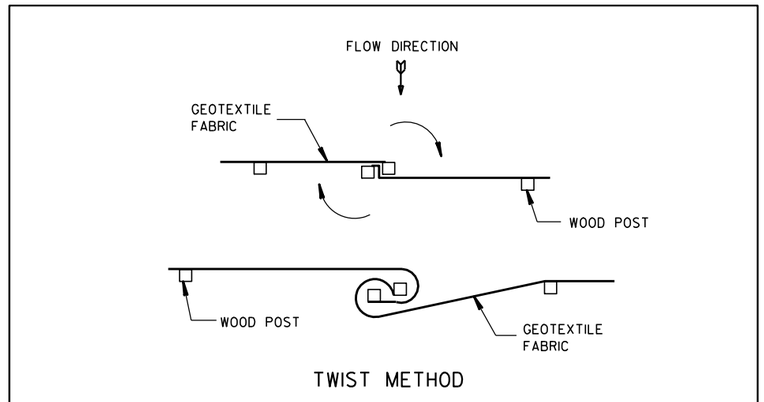
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



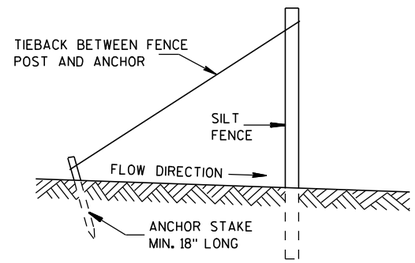
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

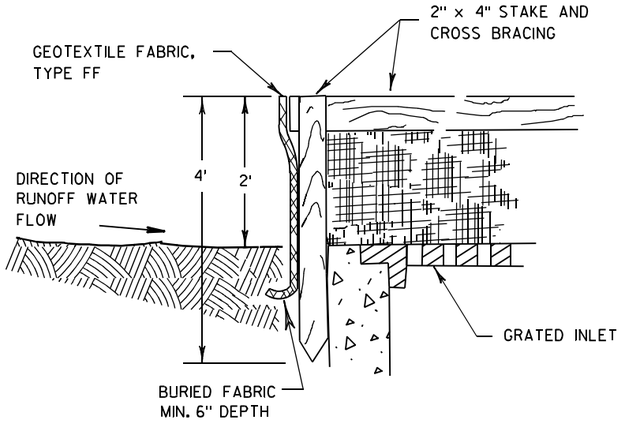
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

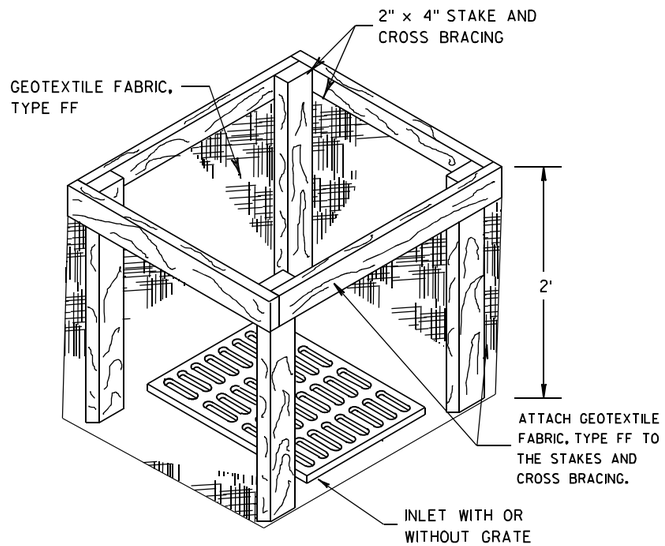
6

S.D.D. 8 E 9-6

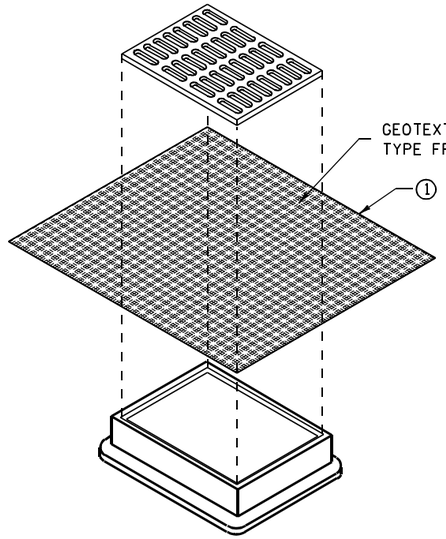
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S.D.D. 8 E 9-6



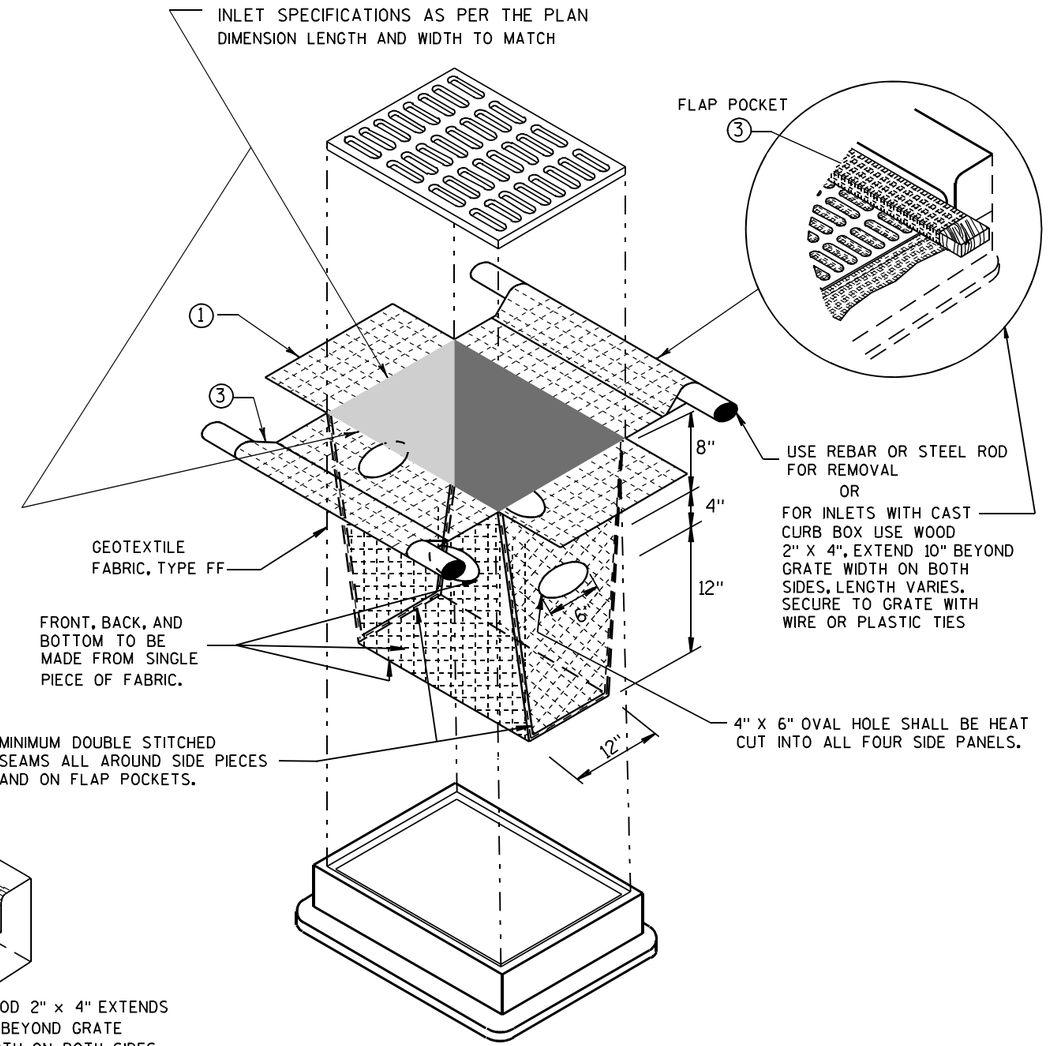


INLET PROTECTION, TYPE A



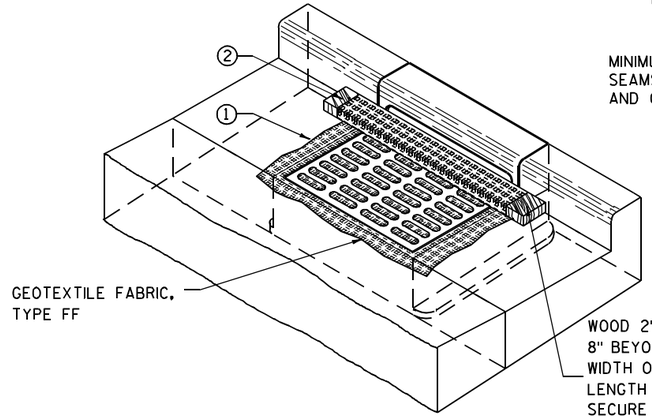
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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.

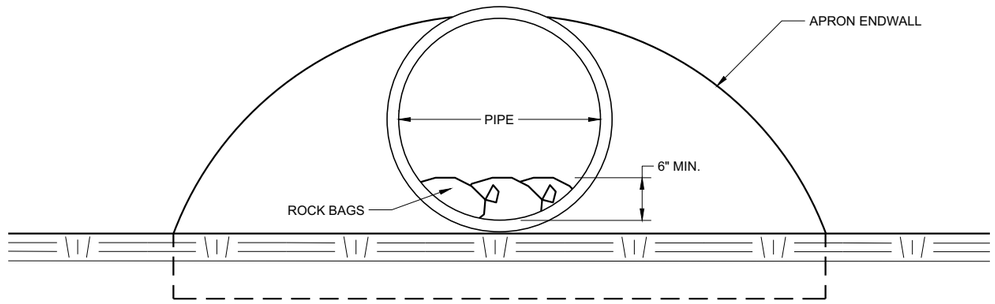
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

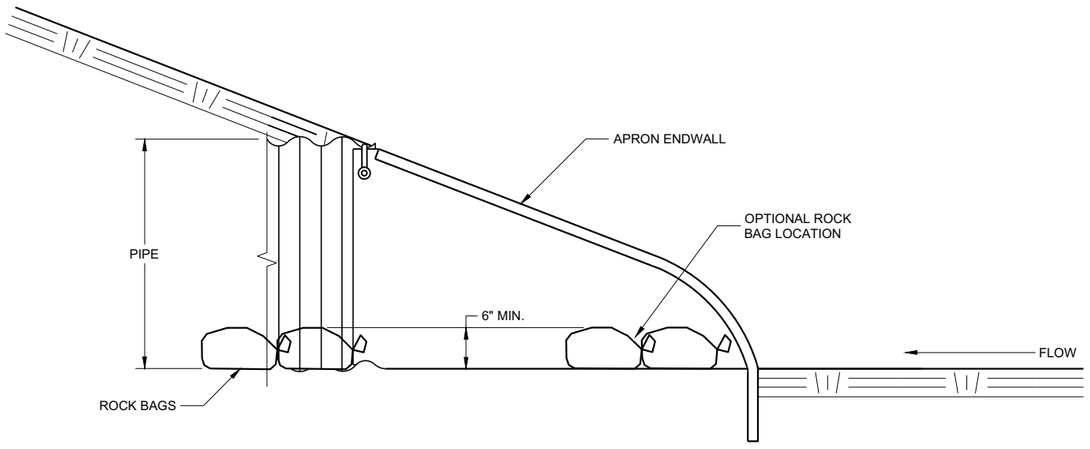
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

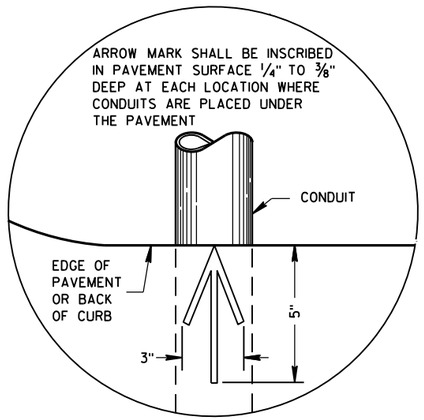
FHWA

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SDD 08E15 - 01

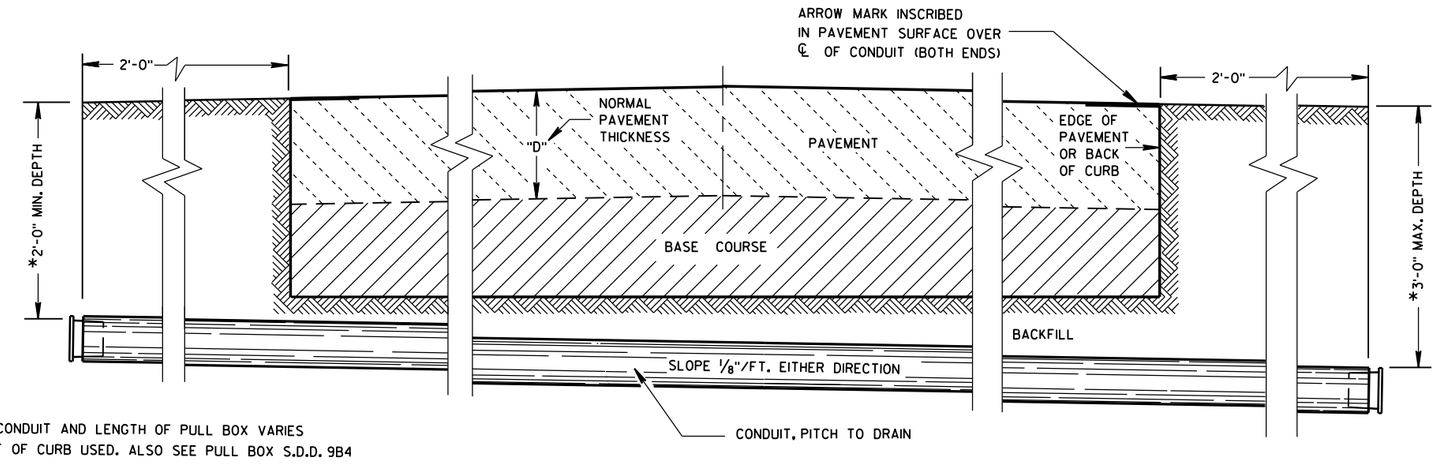
6

SDD 08E15 - 01



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

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.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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.

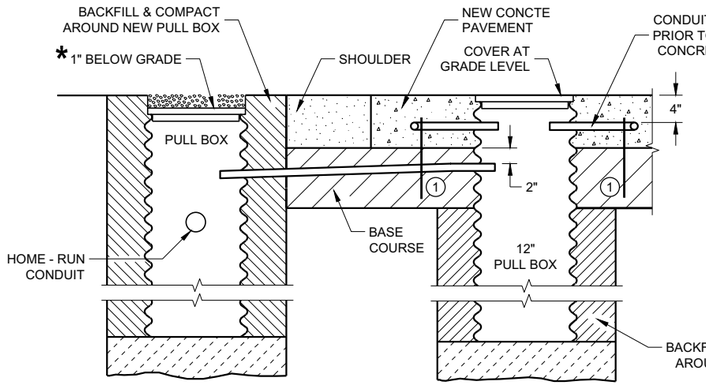
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

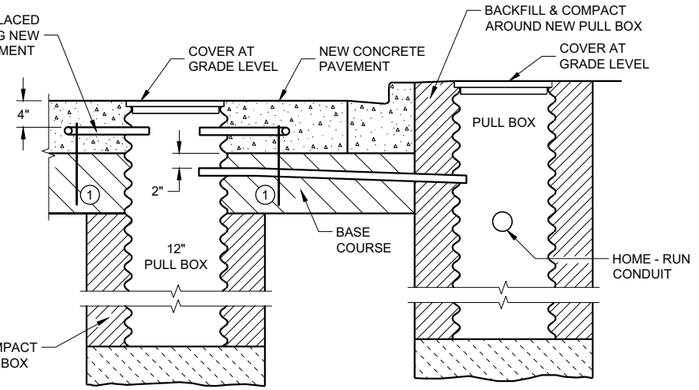
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SECTION A - A
NO CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL



SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

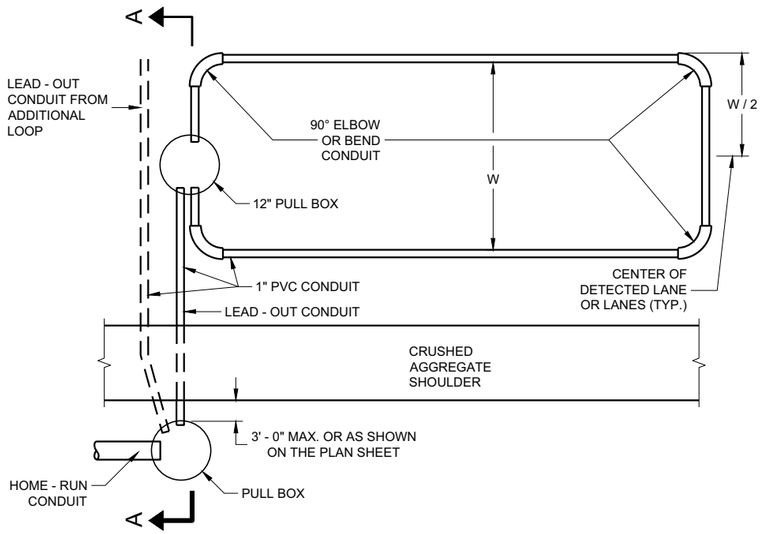
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED CONTINUOUS LENGTH.

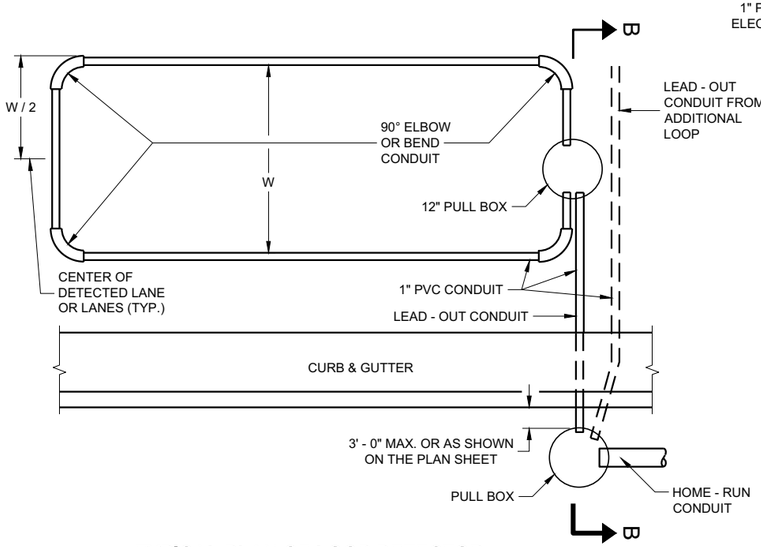
PROTECTION OF THE PULL BOX IN THE BASE COURSE, AND THE RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.

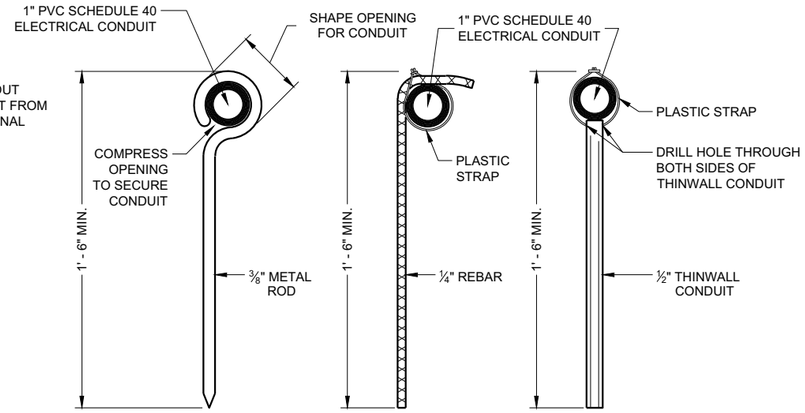
(1) HOLD DOWN PINS TO HOLD CONDUIT DURING POUR.



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL DETAILS FOR HOLD DOWN PINS (1)

LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

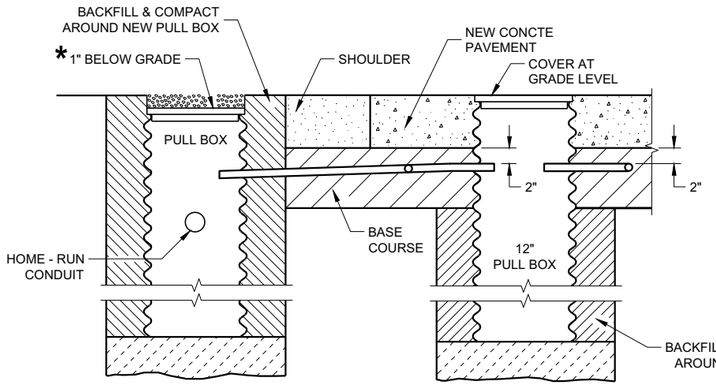
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
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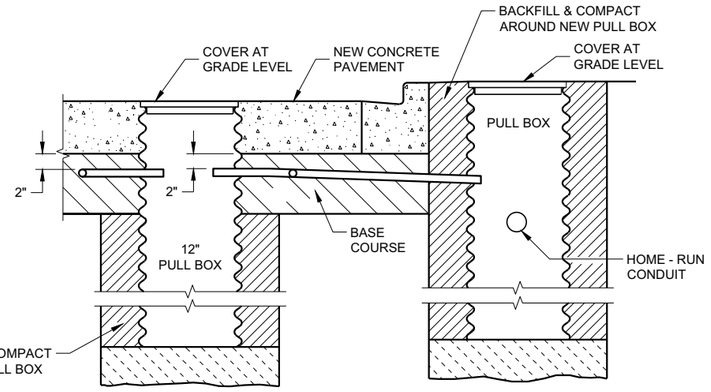
SDD 09F04 - 05



SECTION A - A
NO CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

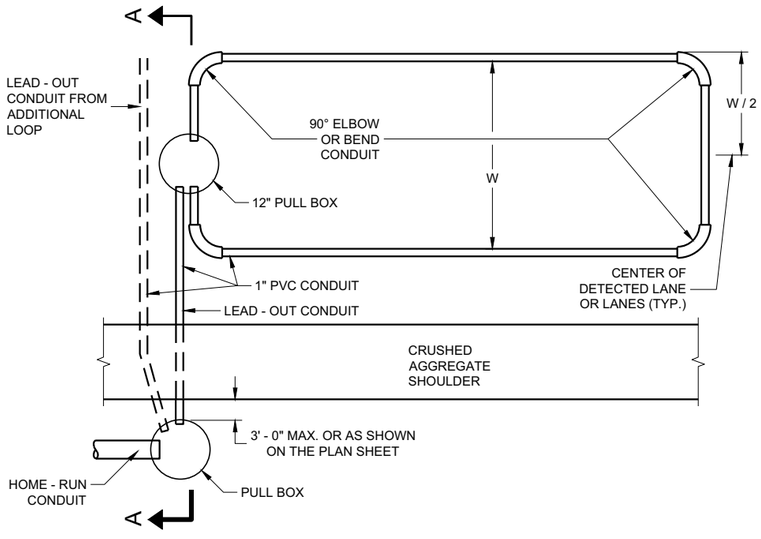
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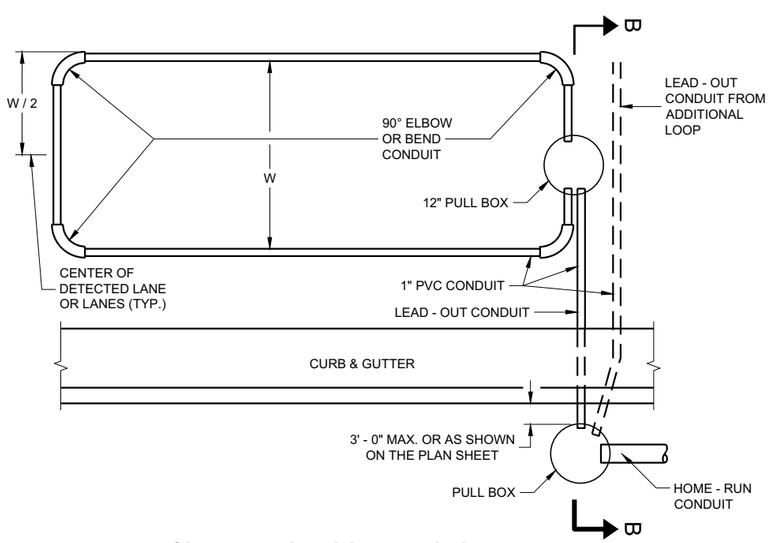
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PROTECTION OF THE CONDUIT, CONDULET, PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

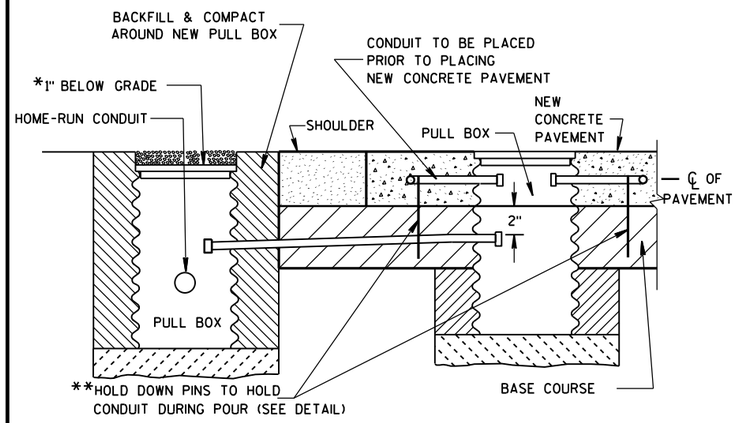
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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SDD 09F09 - 05



SECTION A-A
NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

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MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

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ANY PVC LEAD-OUT CONDUIT CONTAINING MORE THAN TWO TWISTED PAIR OF LOOP LEAD-IN WIRE SHALL BE 2".

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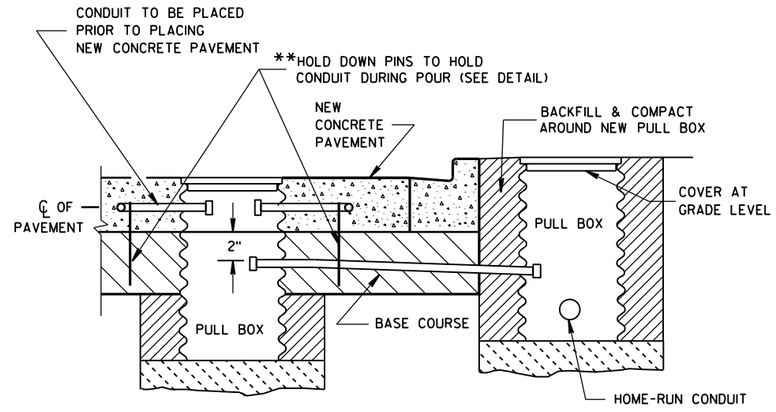
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PROTECTION OF THE PULL BOX IN THE BASE COURSE, AND THE RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED. ANY DAMAGE THAT OCCURS DUE TO FAILURE TO PROTECT THE INSTALLATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

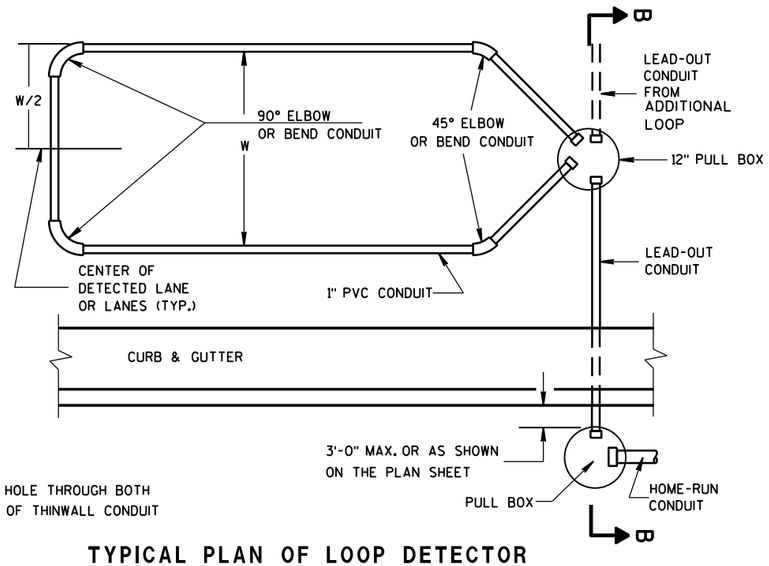
SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE ACCOMPLISHED UNDER THE DIRECTION OF THE PROJECT ENGINEER.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.

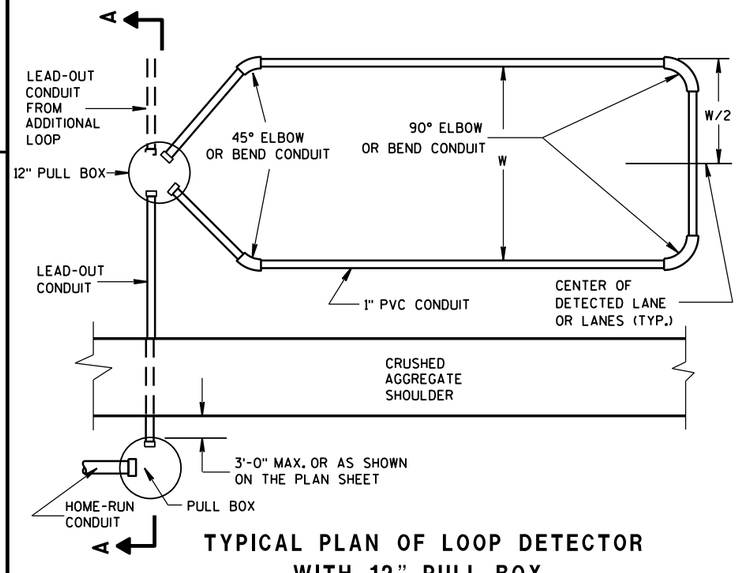


SECTION B-B
CURB & GUTTER

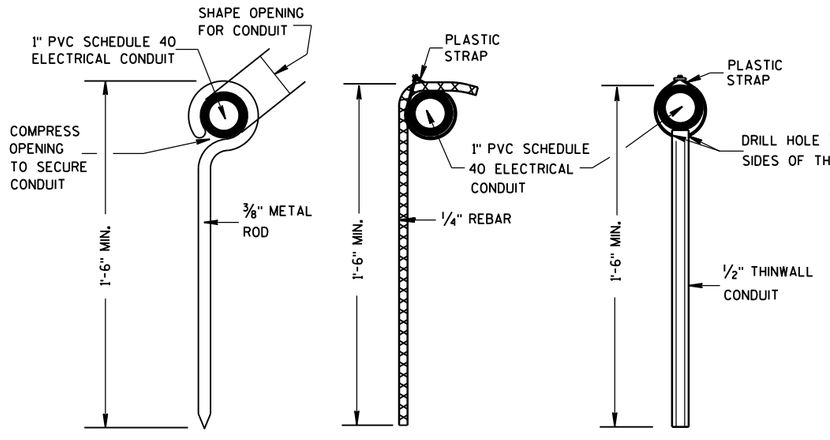
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULL BOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULL BOX



TYPICAL DETAILS FOR HOLD DOWN PINS

**HOLD DOWN PINS ARE REQUIRED TO STABILIZE THE LOOP TO MEET THE DIMENSIONAL AND PHYSICAL CONSTRUCTION REQUIREMENTS OF THE PLANS. THE NUMBER OF HOLD DOWN PINS SHALL BE DETERMINED IN THE FIELD, BY THE PROJECT ENGINEER.

LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULL BOX 45 DEGREE ELBOWS TO PULL BOX

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DEPARTMENT OF TRANSPORTATION

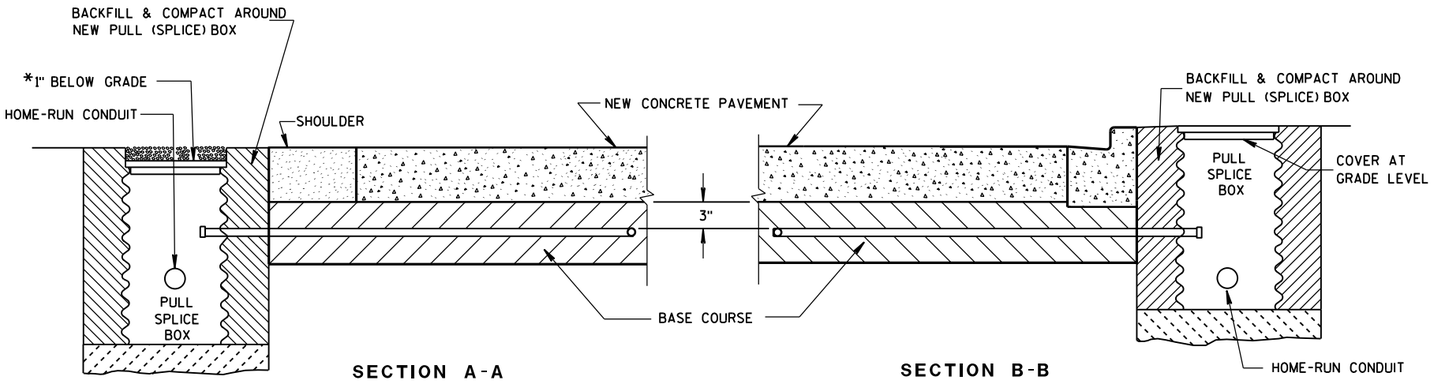
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

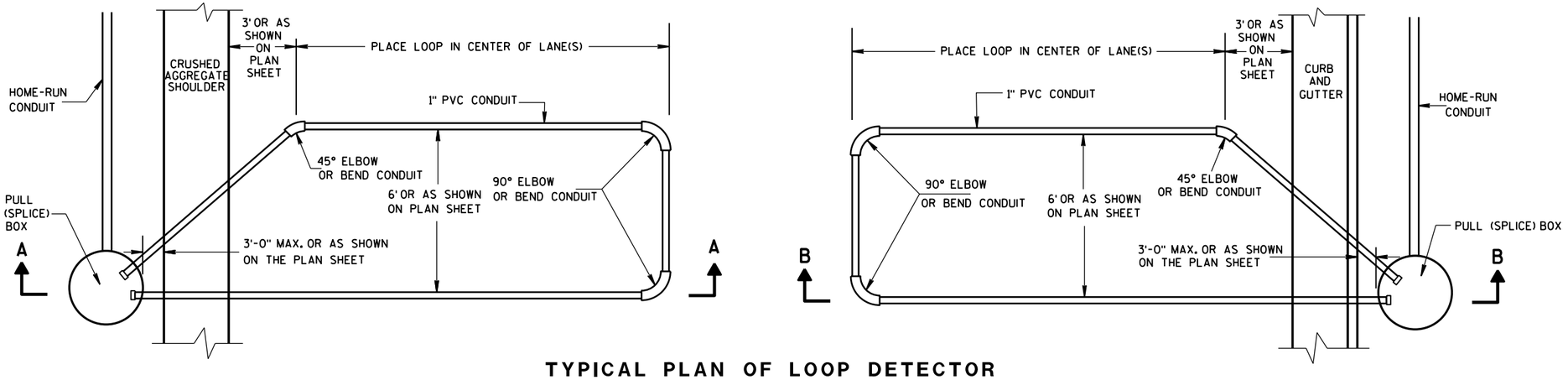
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

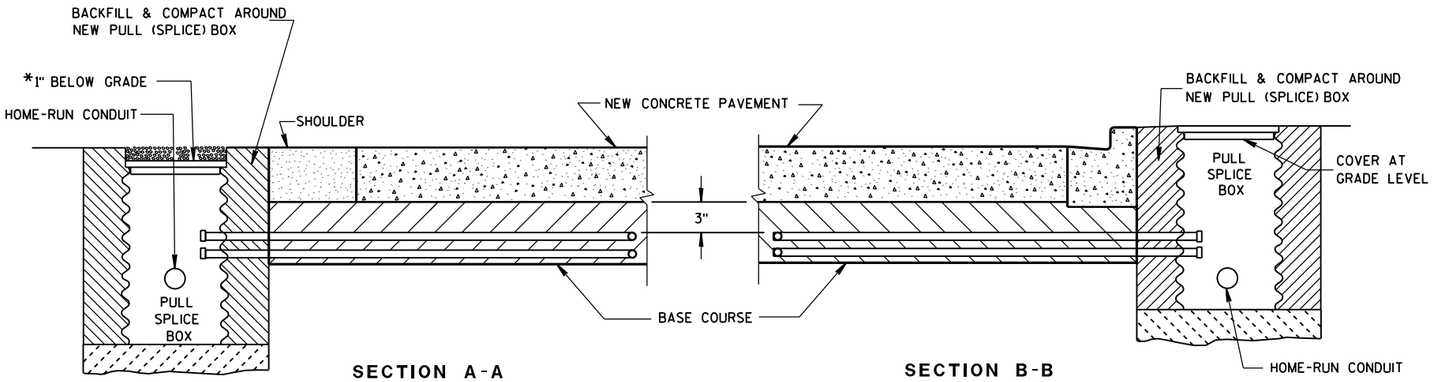
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

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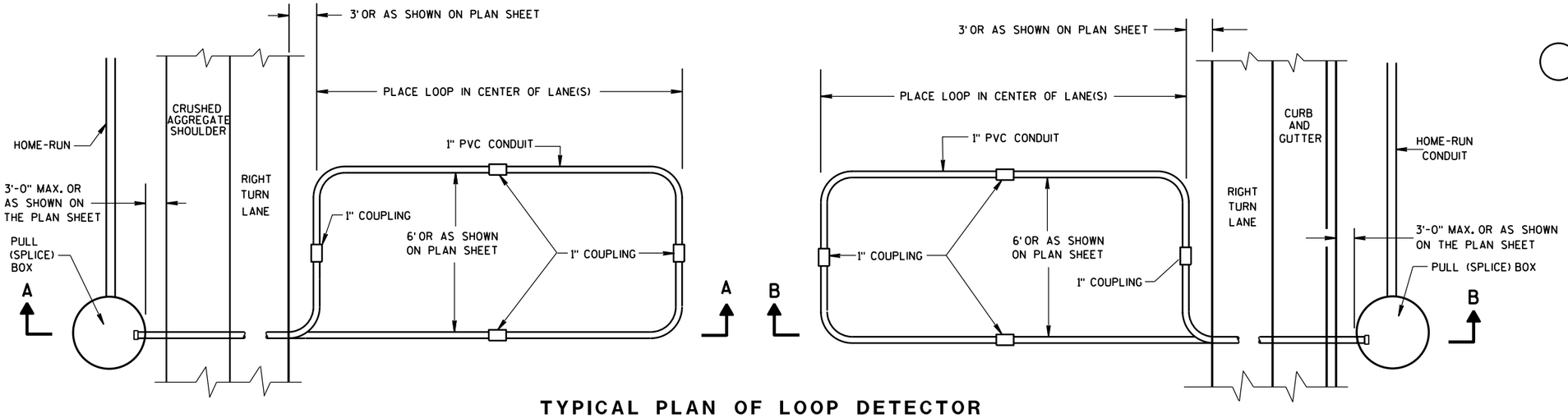
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

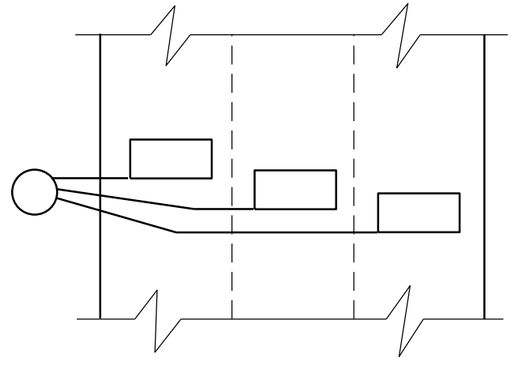
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

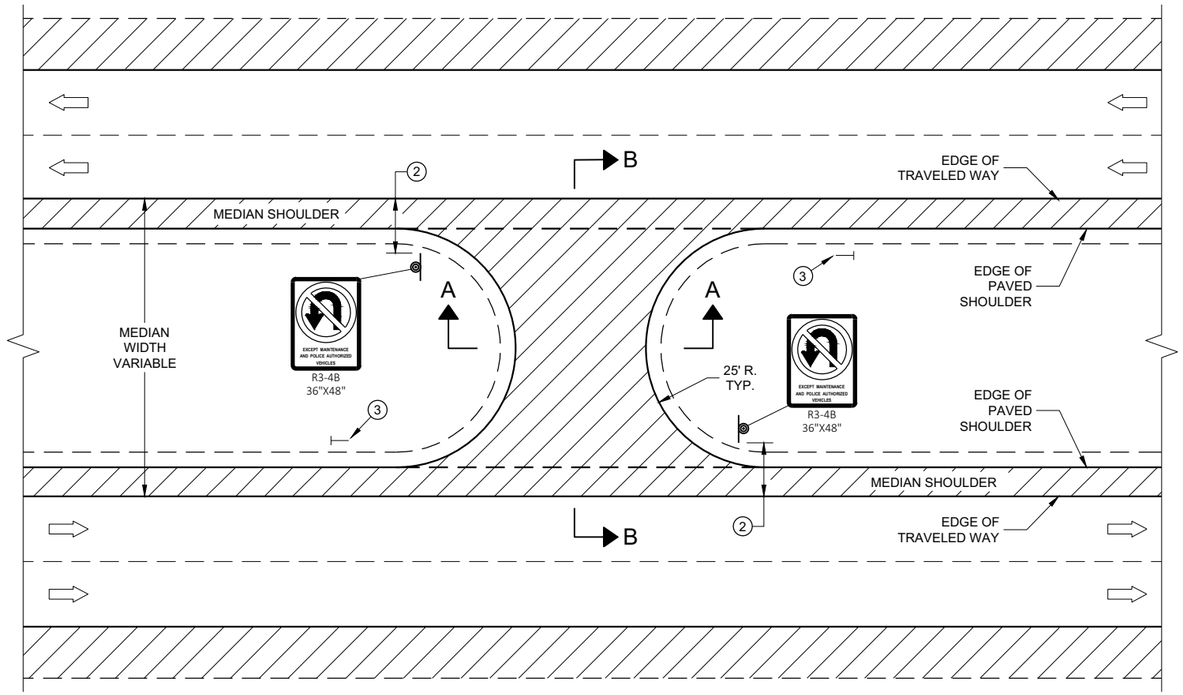
LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA

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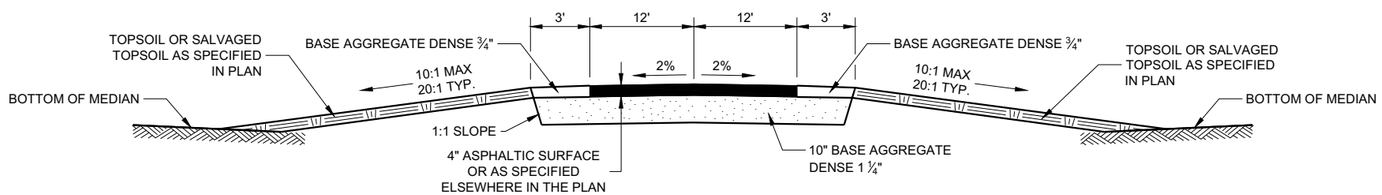
S.D.D. 9 F 15-4b

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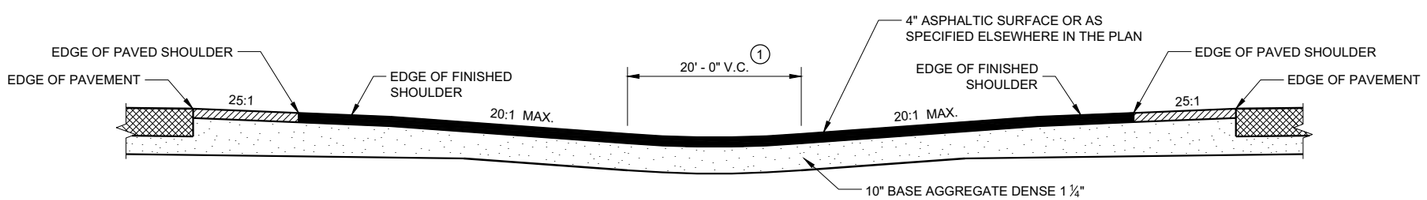
S.D.D. 9 F 15-4b



PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.
2. SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
3. INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR
- DIRECTION OF TRAFFIC

MAINTENANCE CROSSOVER FOR FREEWAYS

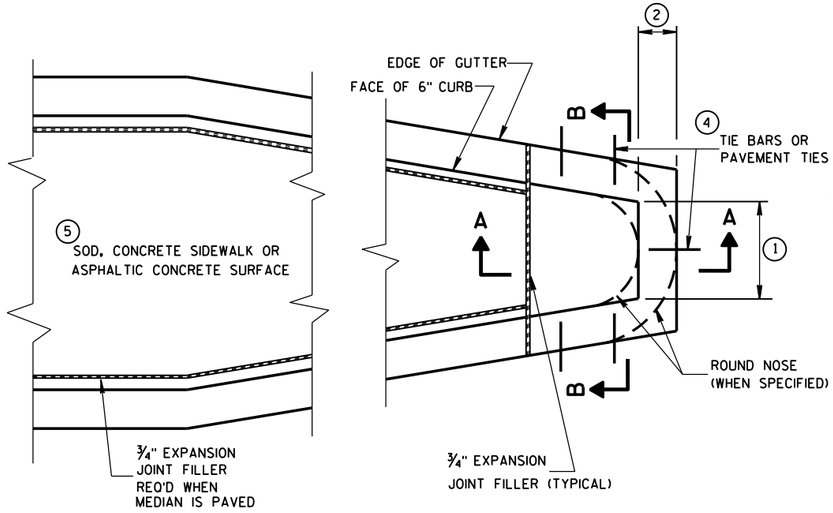
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

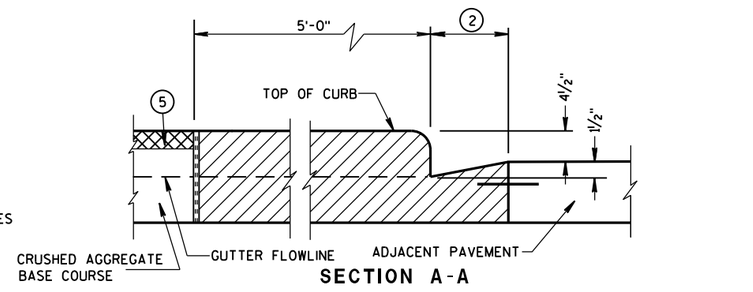
APPROVED
November 2019
DATE

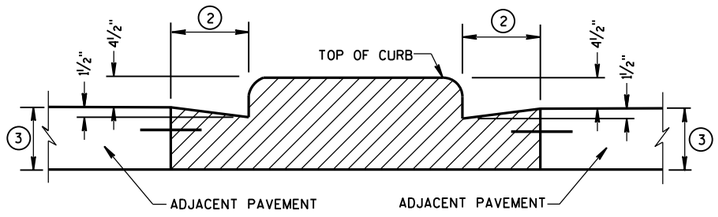
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 11A01 - 06







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.

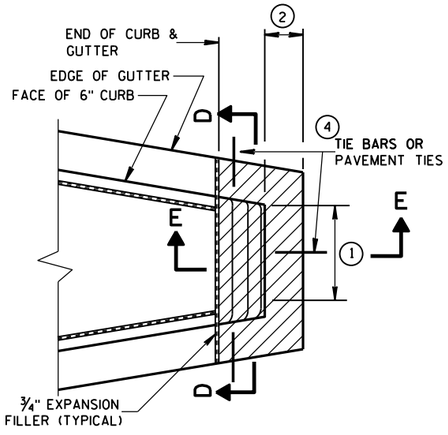
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

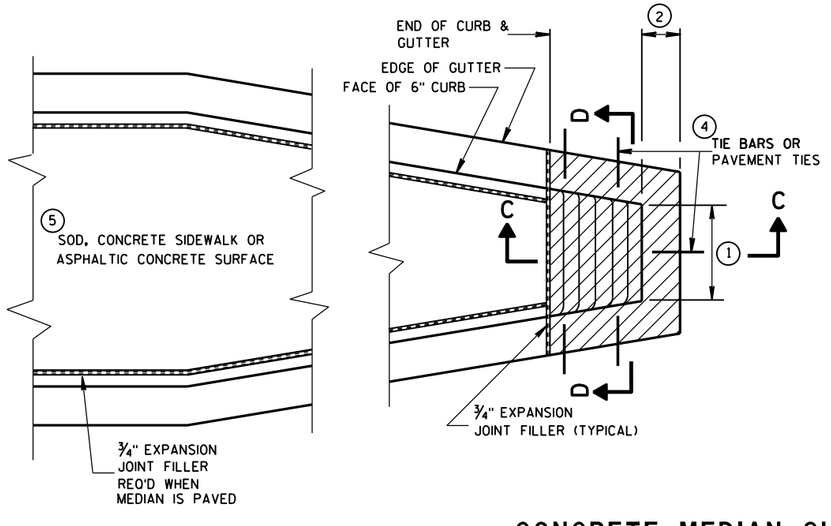
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

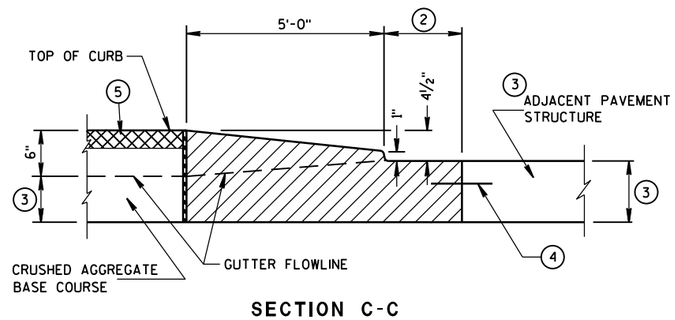
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

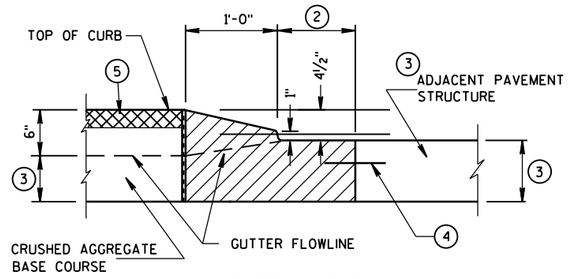
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



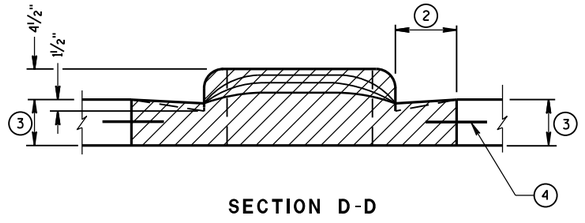






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

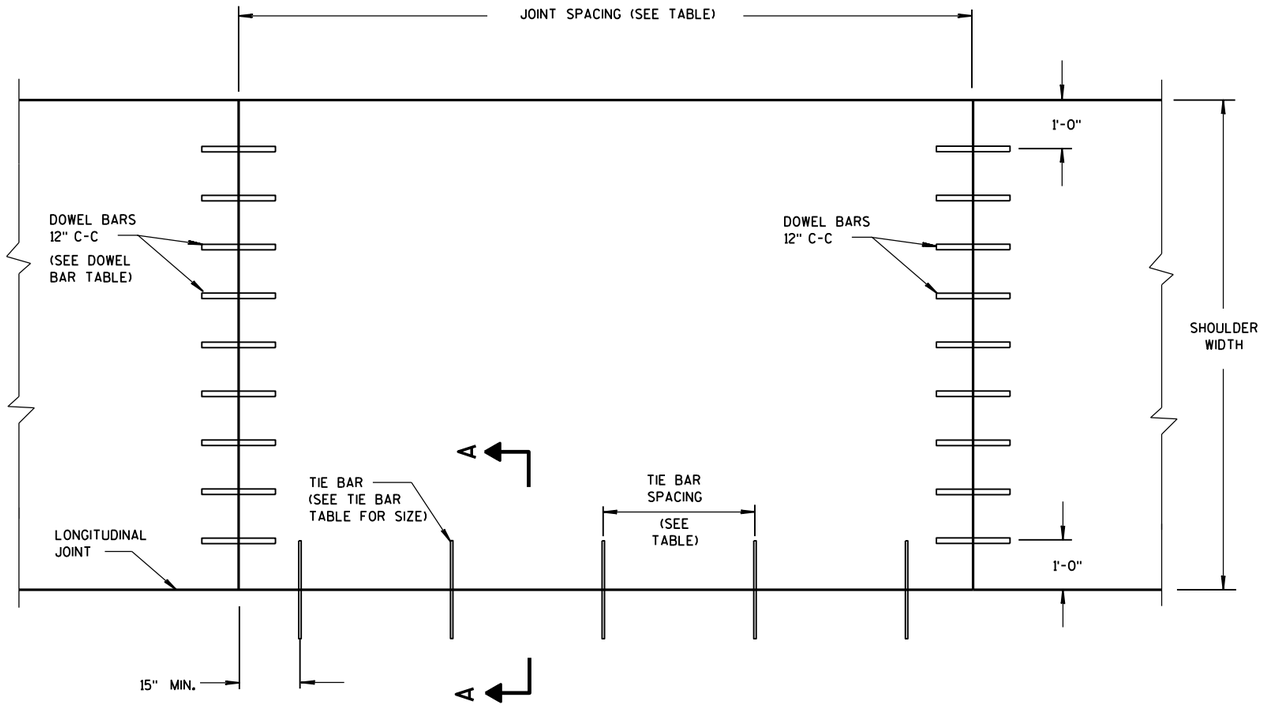
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

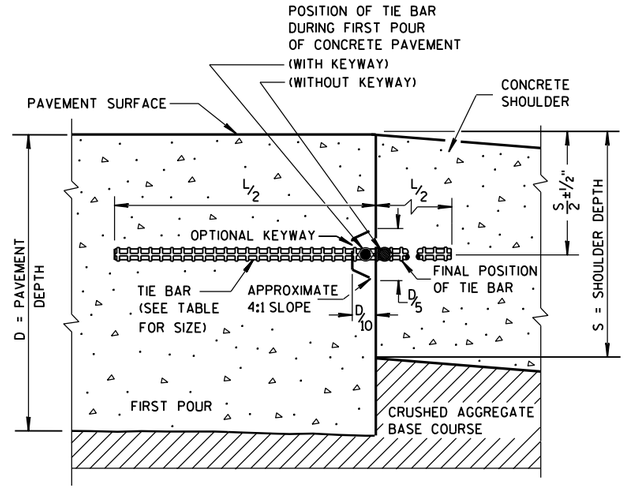
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

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" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

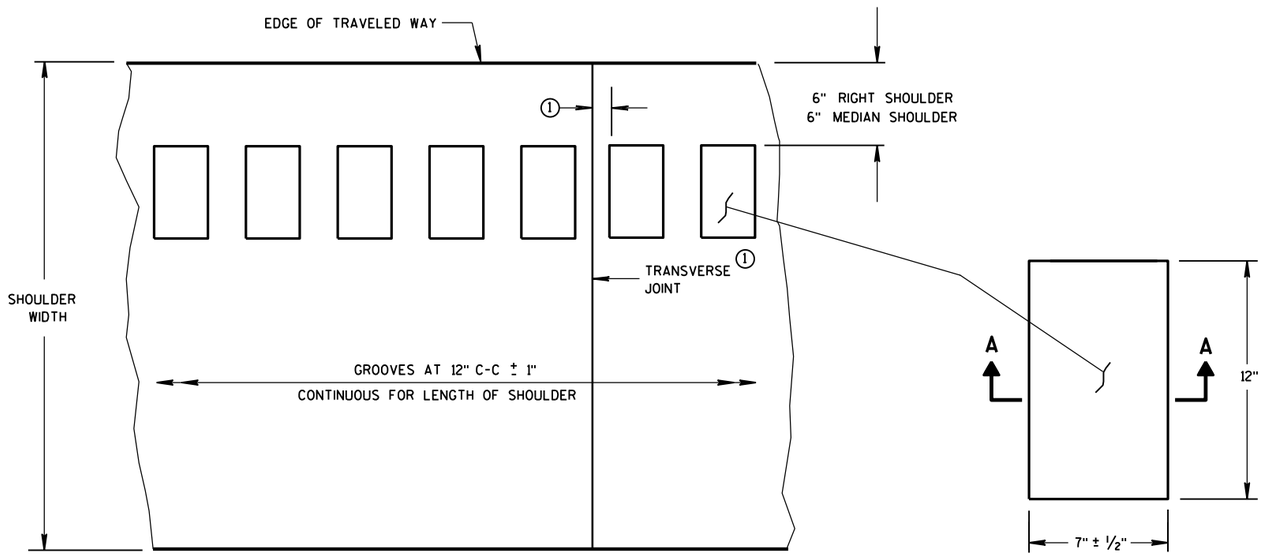
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEF
FHWA

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S.D.D. 13 A 3-6

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S.D.D. 13 A 3-6



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

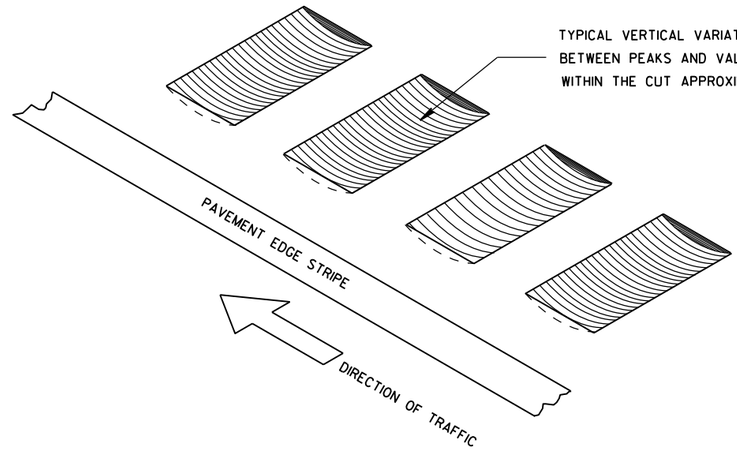
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

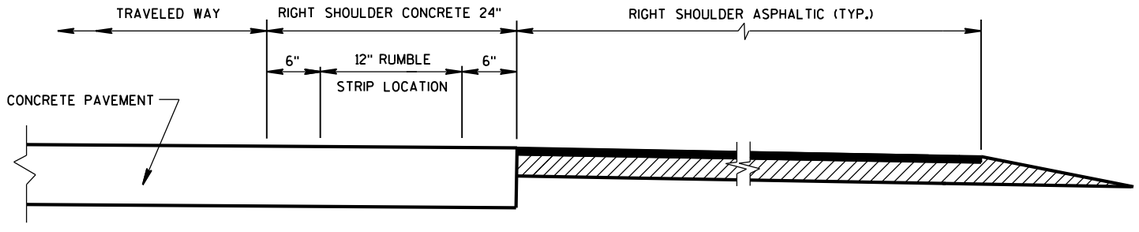
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

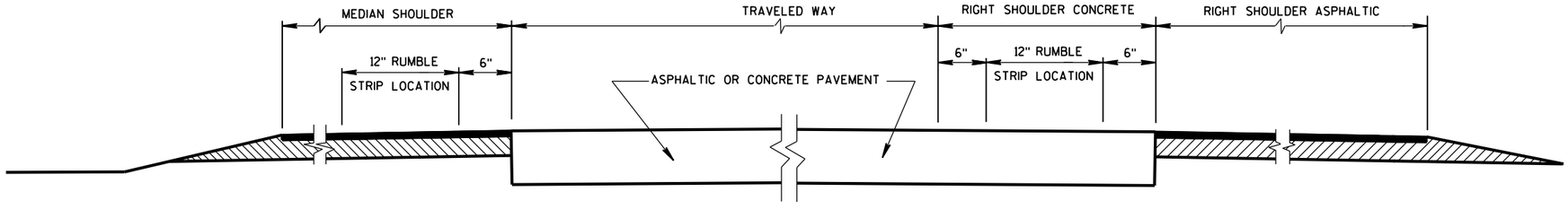
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



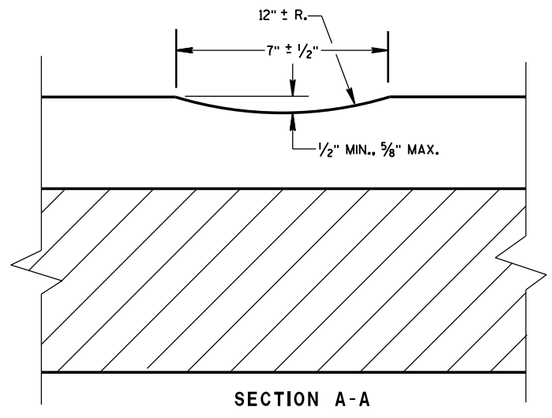
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

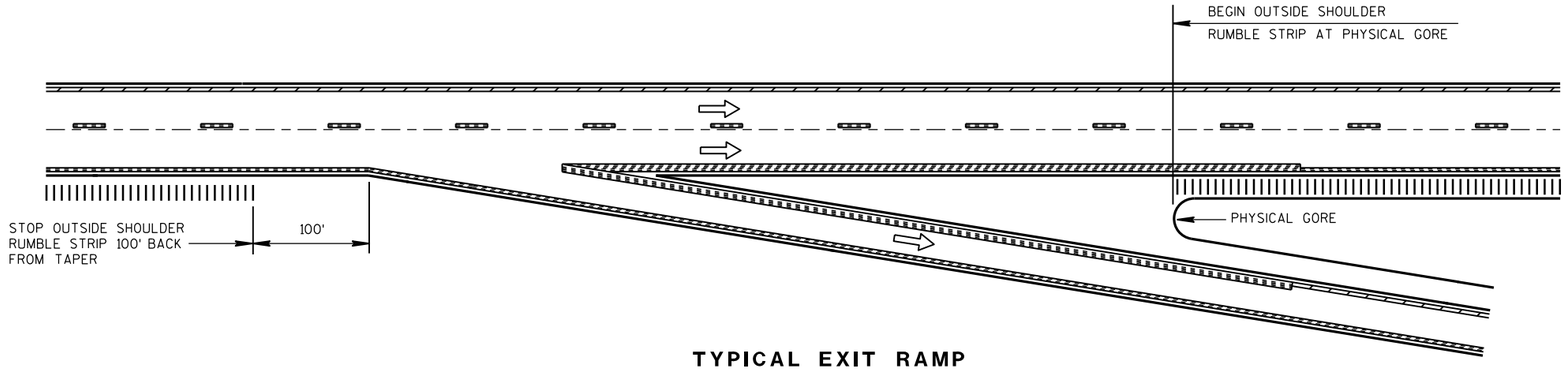
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 A 5-5a

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S.D.D. 13 A 5-5a



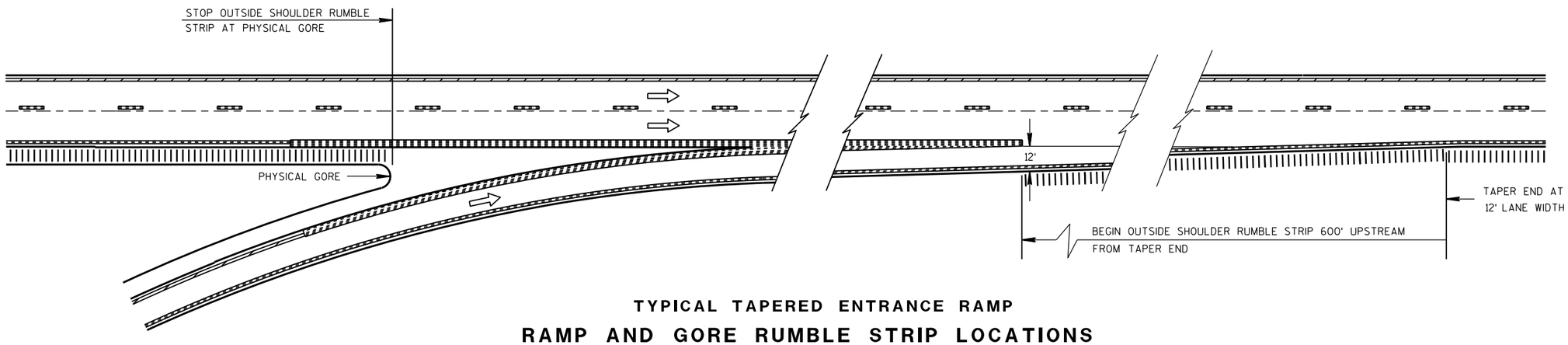
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

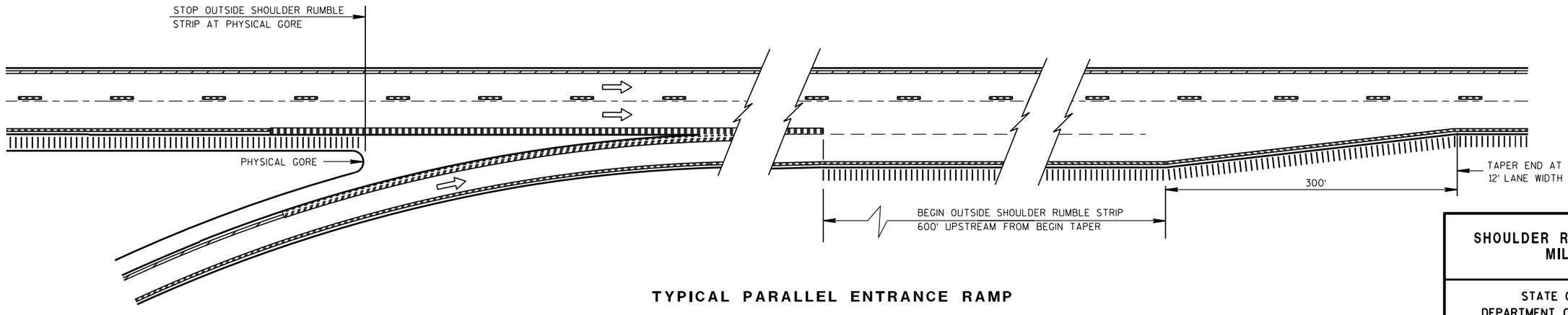
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

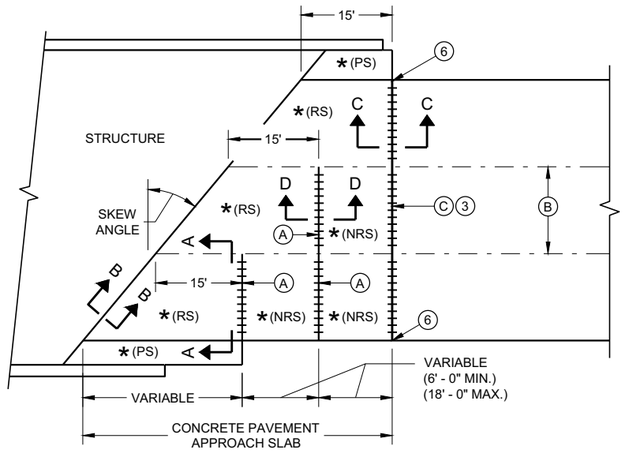
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

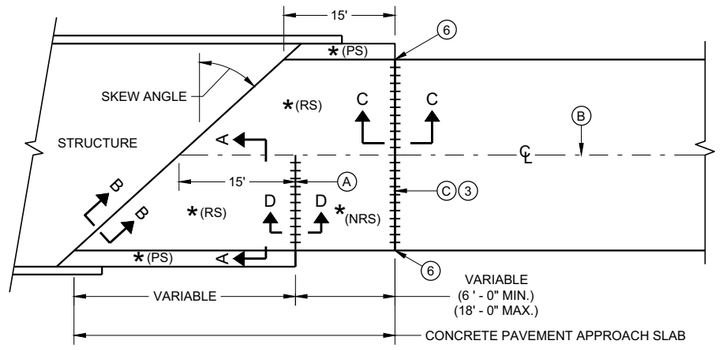
APPROVED
12/17/2012 — DATE
/S/ Jerry H. Zoga — ROADWAY STANDARDS ENGINEER
FHWA

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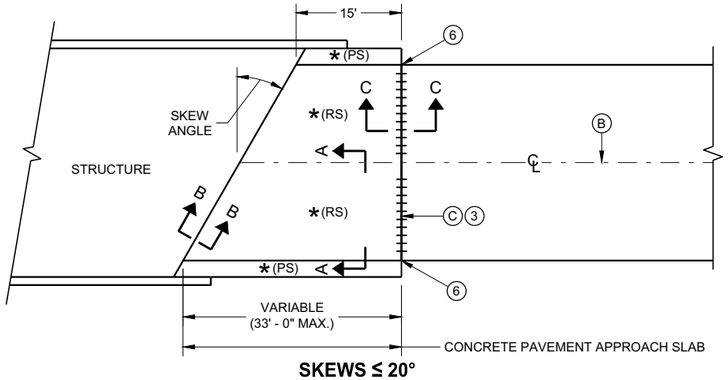
S.D.D. 13 A 5-5b



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

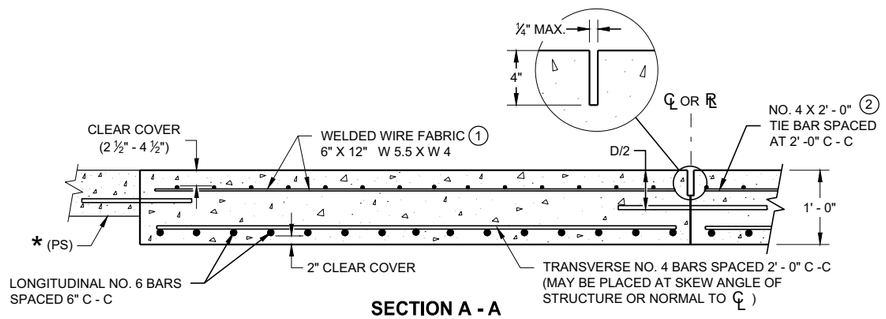
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

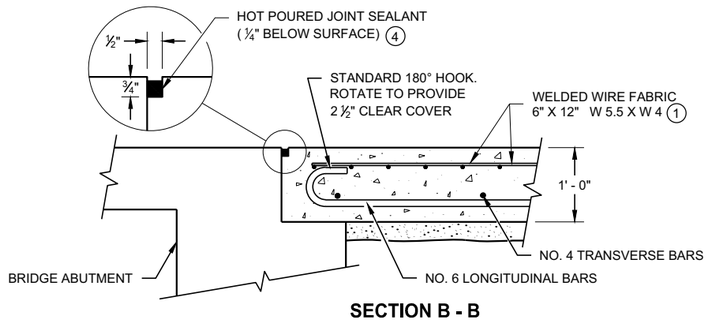
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

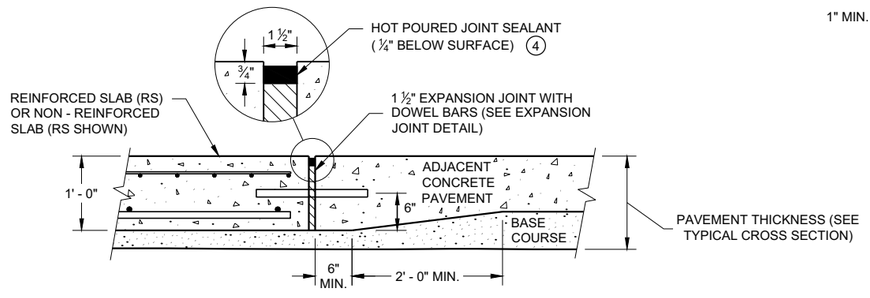
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

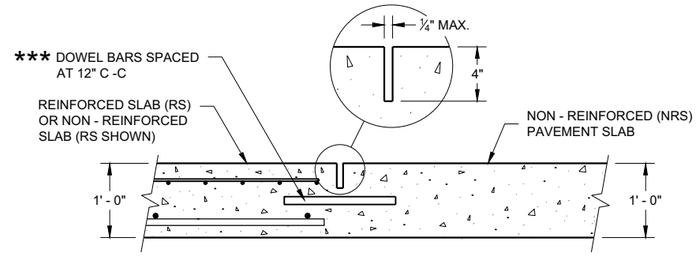
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

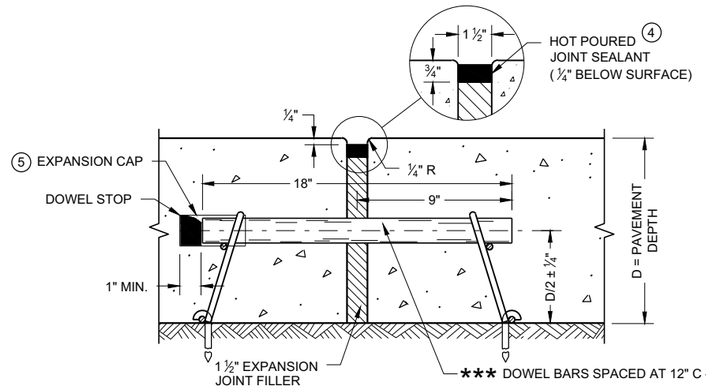
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

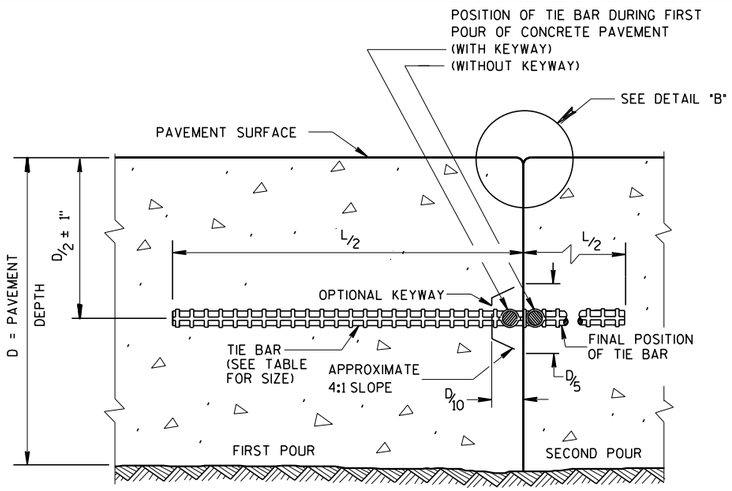
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

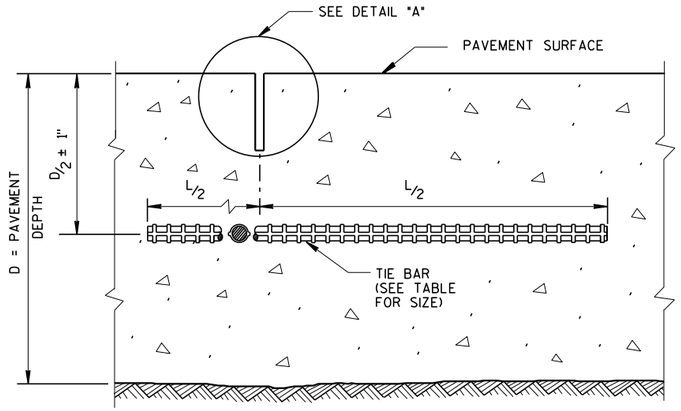
FHWA

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SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

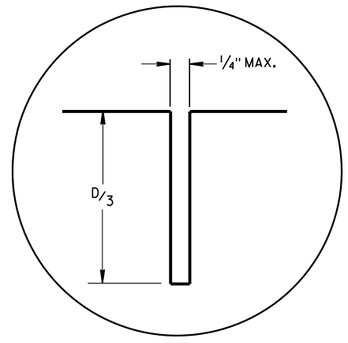
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

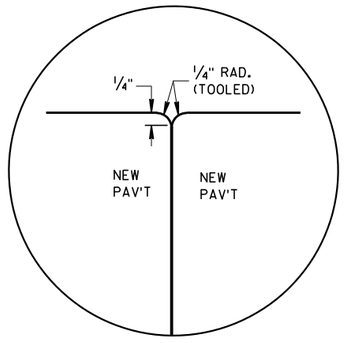
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

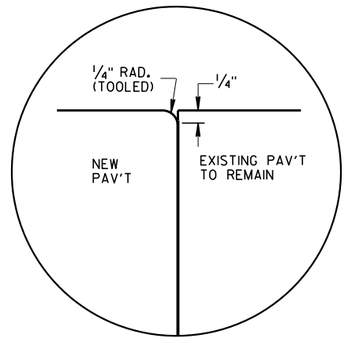
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



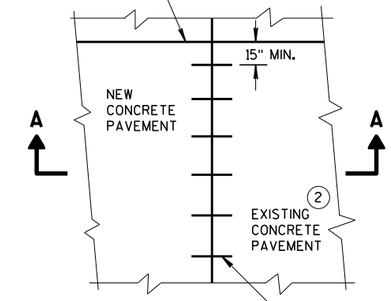
DETAIL "A"



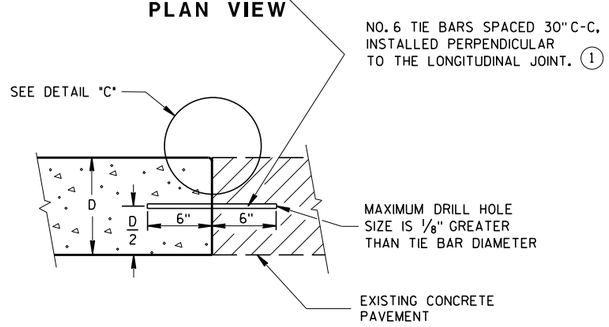
DETAIL "B"



DETAIL "C"



PLAN VIEW



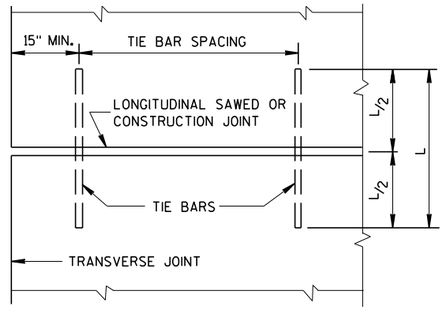
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

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

6

S.D.D. 13 C 1-19

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S.D.D. 13 C 1-19

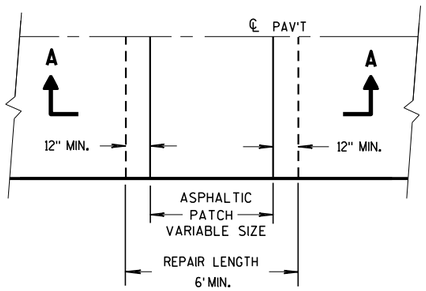
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

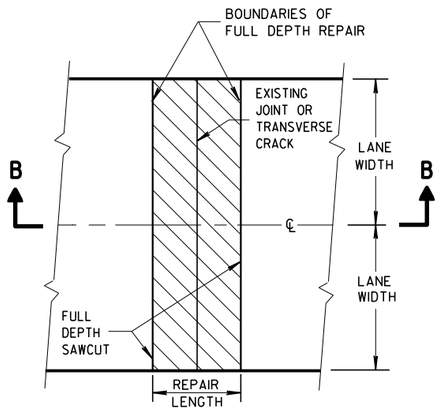
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

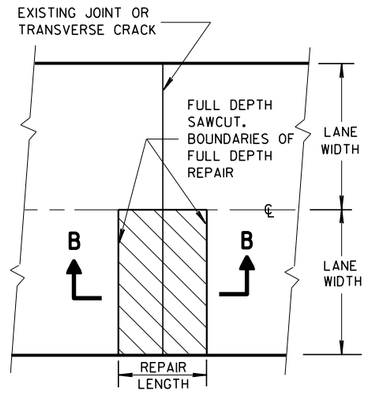
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

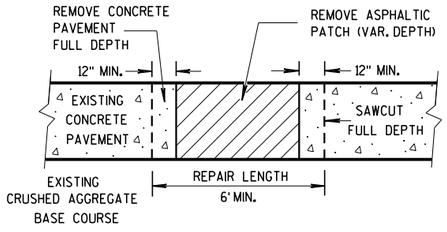


PLAN VIEW
(DOUBLE LANE REPAIR)



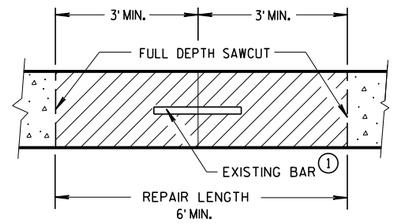
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



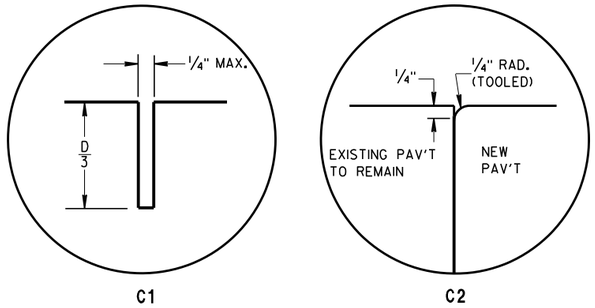
SECTION B-B

CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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C1 C2

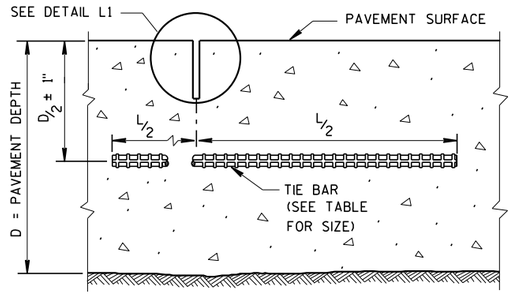
TRANSVERSE JOINTS

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.



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

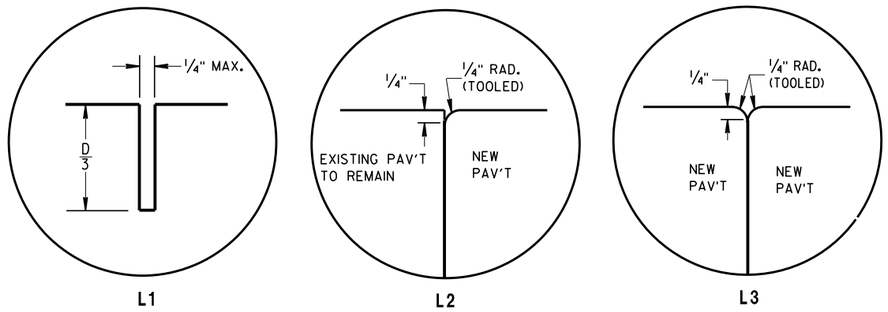
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

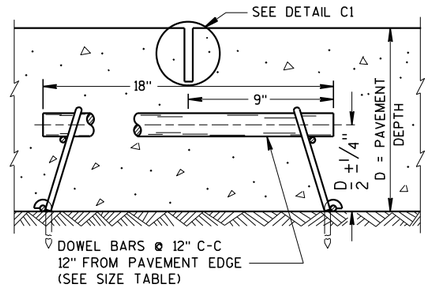
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



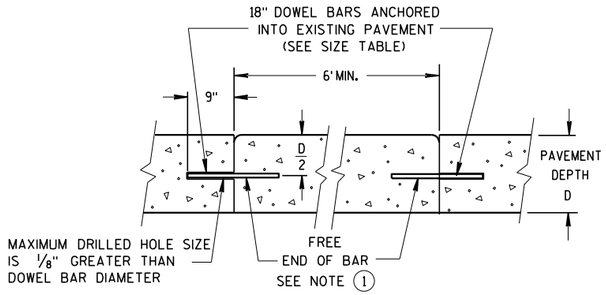
L1 L2 L3

LONGITUDINAL JOINTS

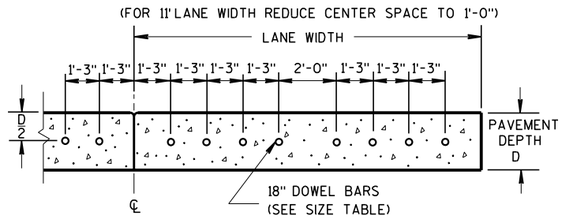


SECTION F-F

CONTRACTION JOINT



SECTION D-D

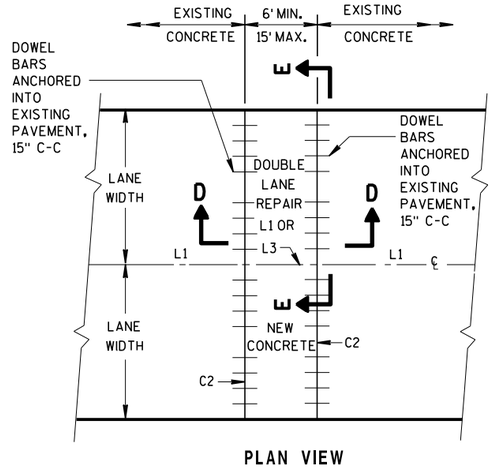


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

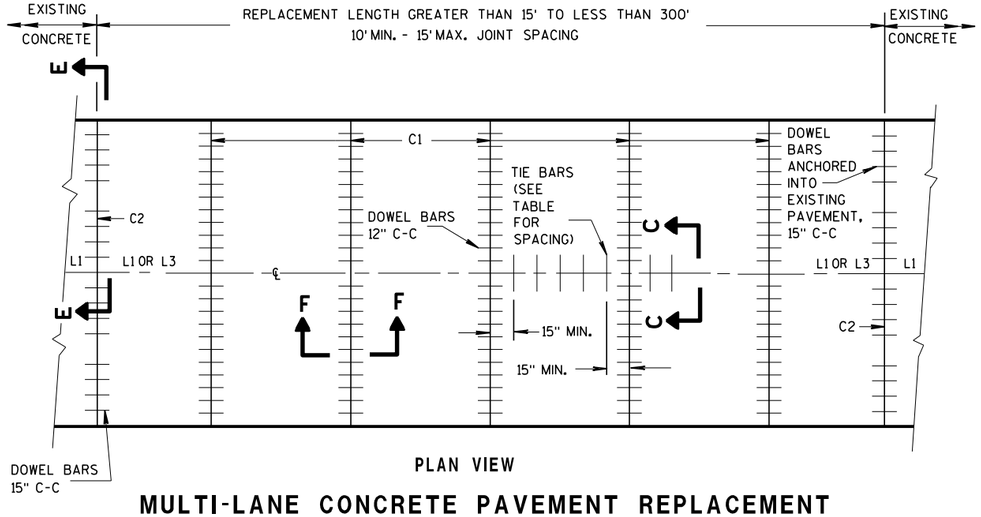
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	NONE	12'
7", 7 1/2"	1"	1"	14'
8", 8 1/2"	1 1/4"	1 1/4"	15'
9", 9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



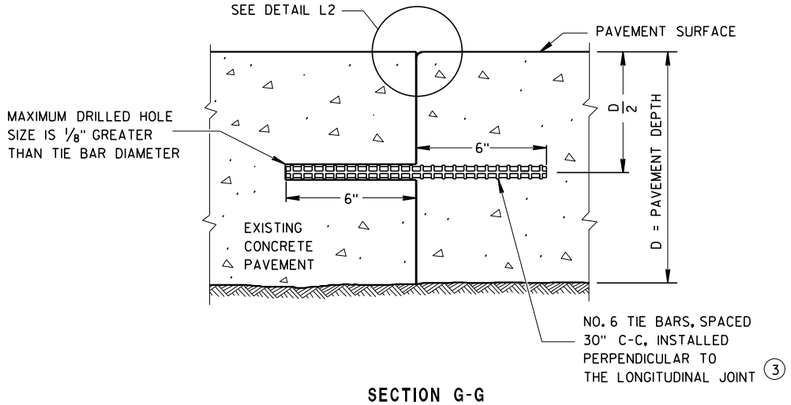
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 13 C 9-15b



SECTION G-G

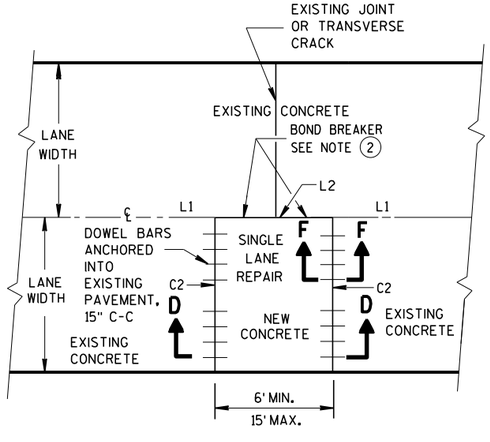
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

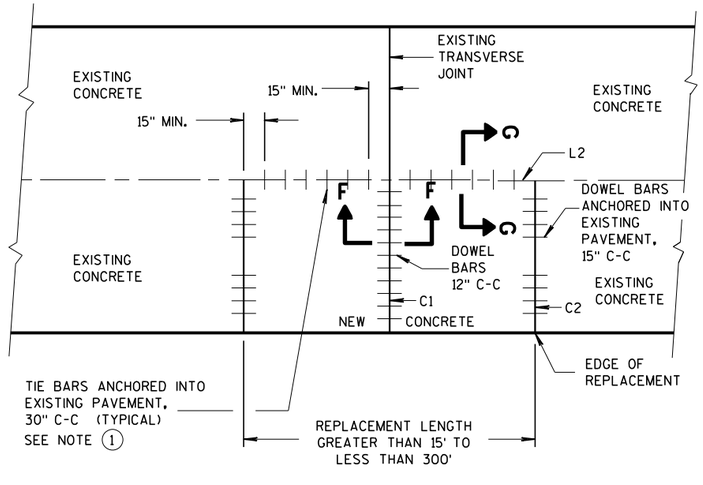
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

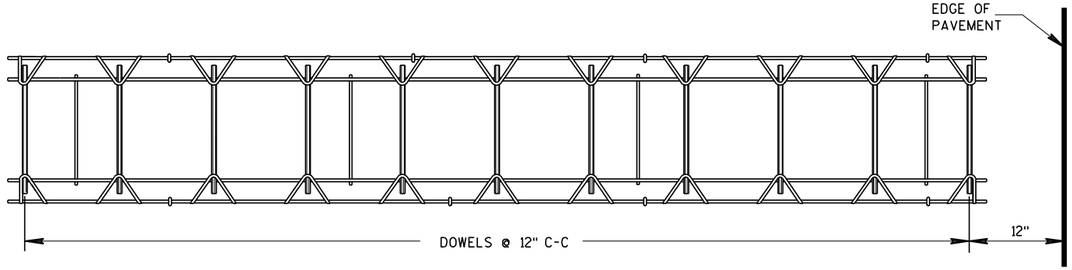
SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
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FHWA

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PLAN VIEW



SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

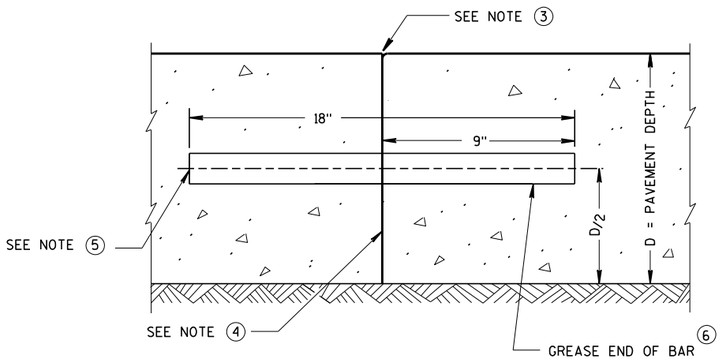
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

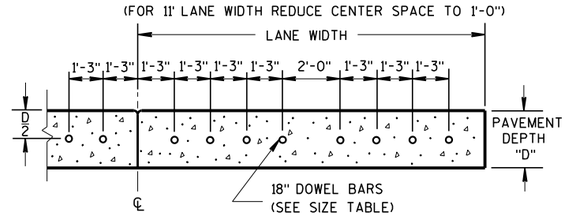
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

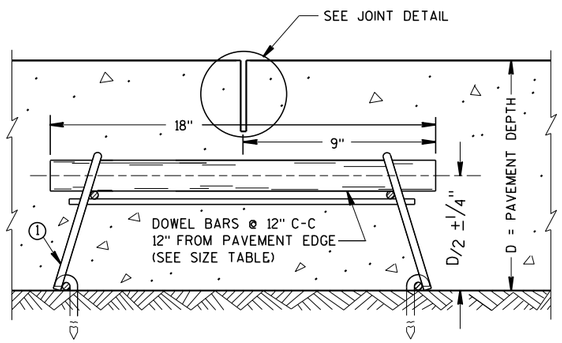
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



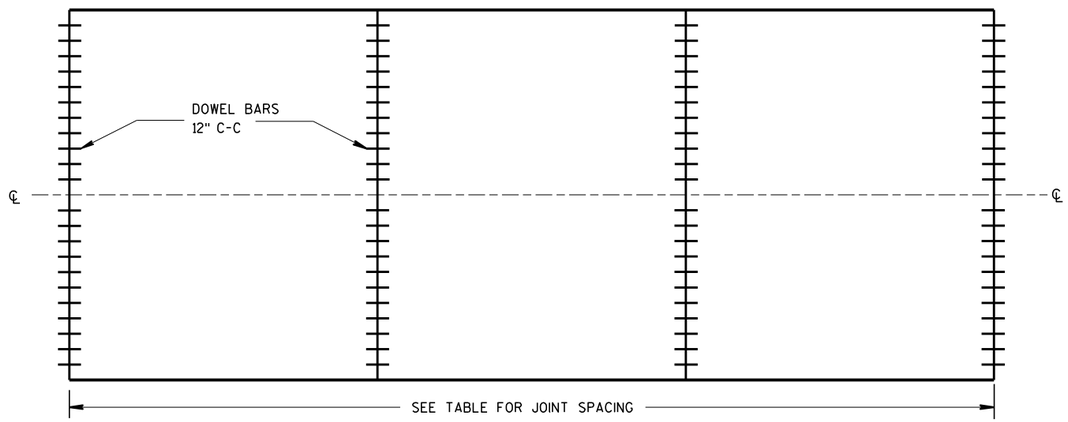
TRANSVERSE CONSTRUCTION JOINT



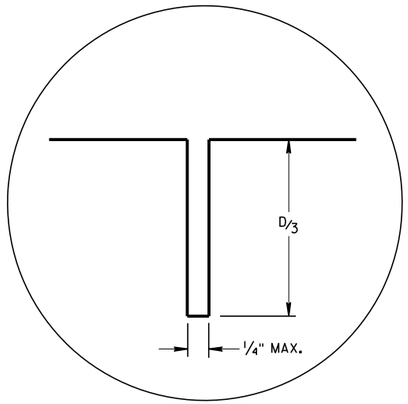
DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



DOWELED CONTRACTION JOINT



CONTRACTION JOINT LOCATIONS



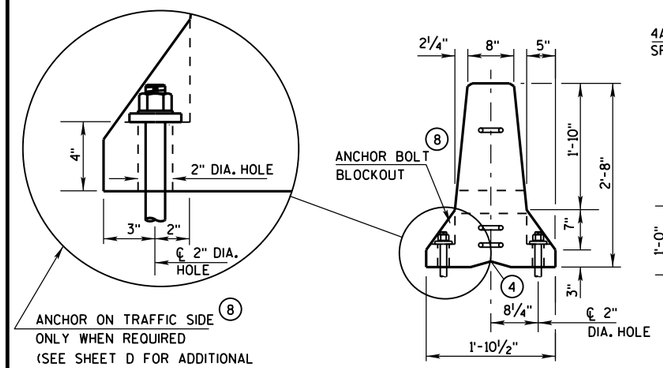
JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

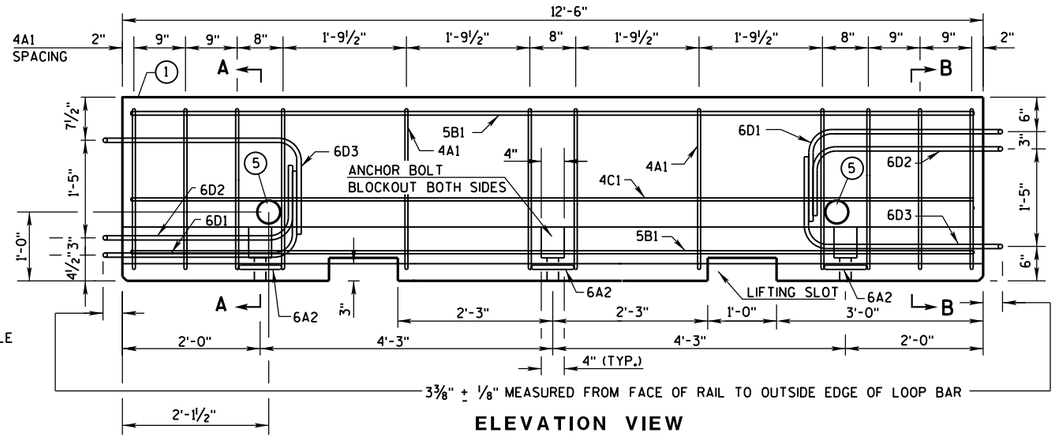
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUP
FHWA

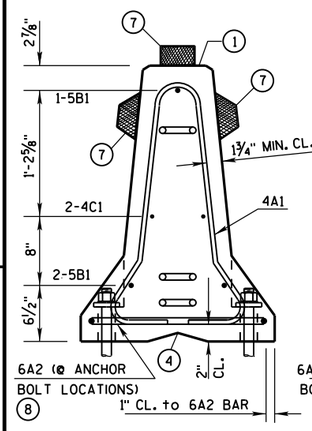
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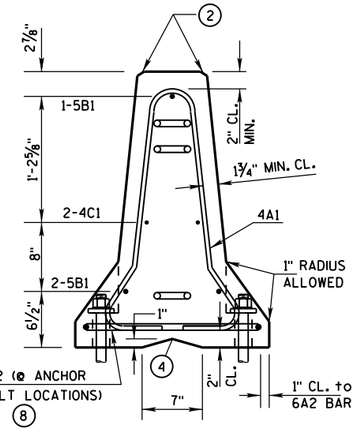
END VIEW



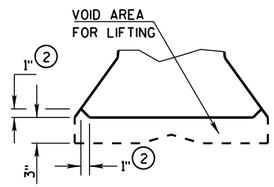
ELEVATION VIEW



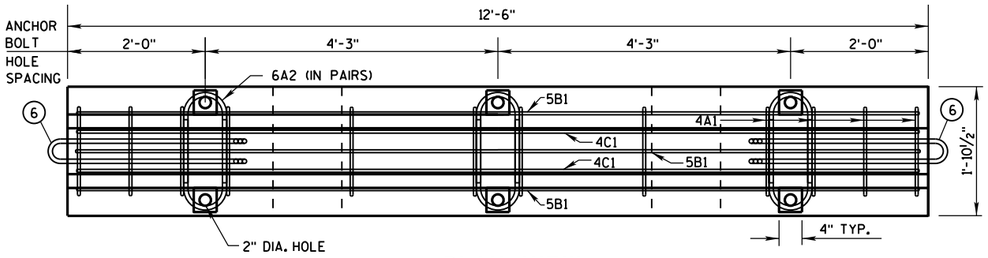
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

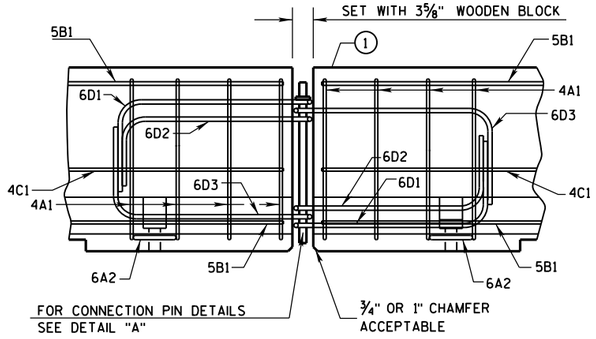


DETAIL "B"
LIFTING SLOT DETAIL

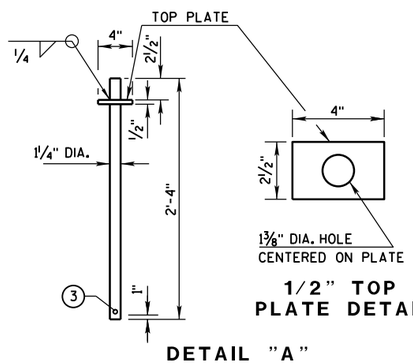


PLAN VIEW

DETAILS OF BARRIER SECTION

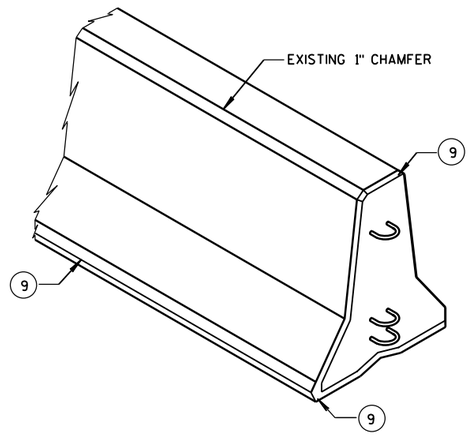


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

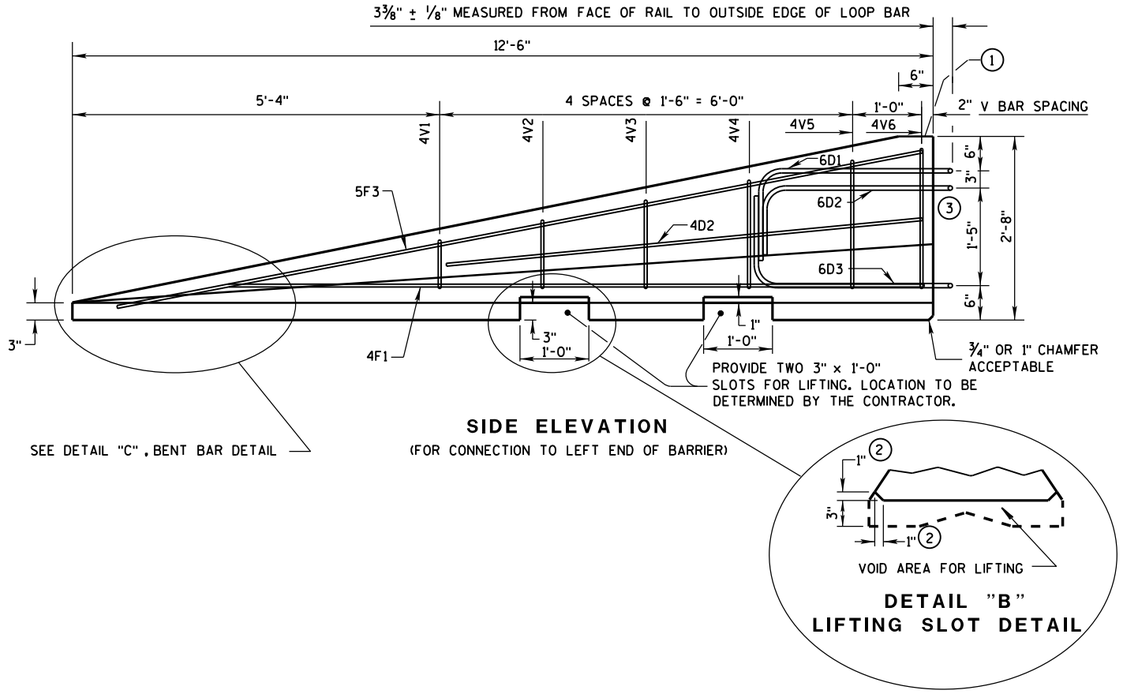
f'c = 4,000 psi

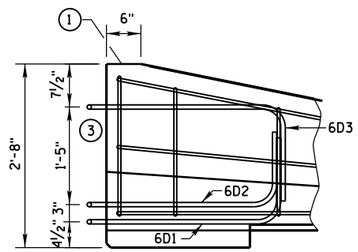
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

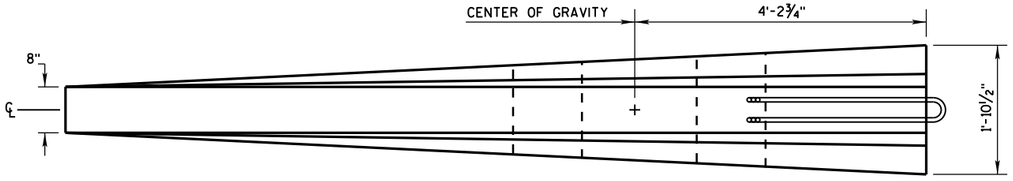
S.D.D. 14 B 7-15a

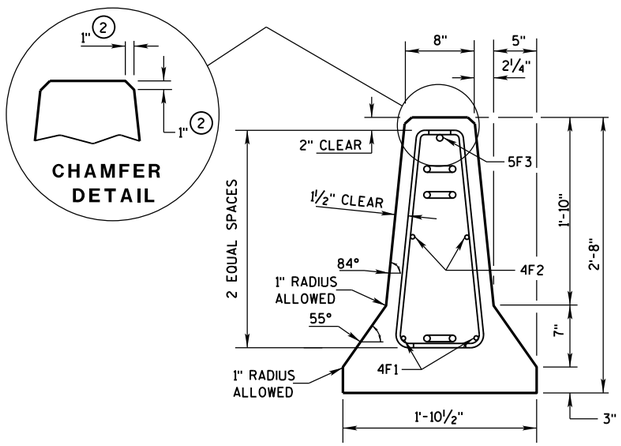


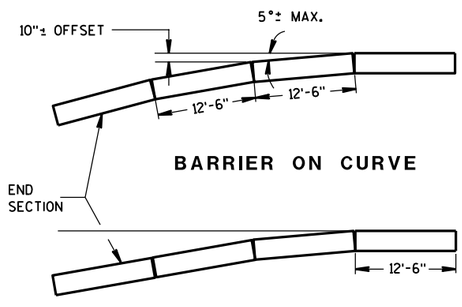


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

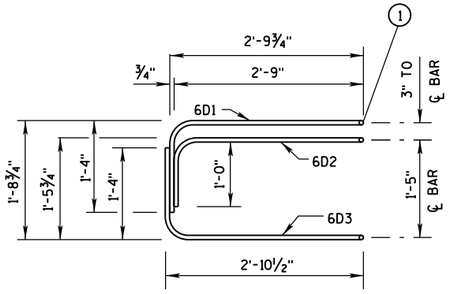
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15b

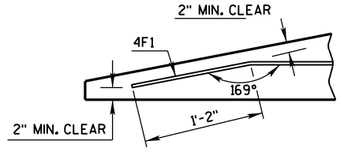
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

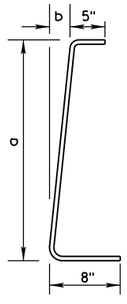
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

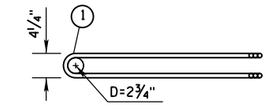
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

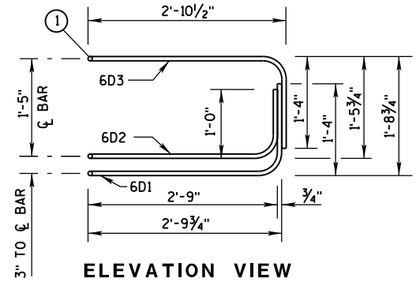
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

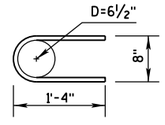
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



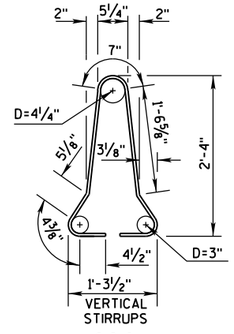
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

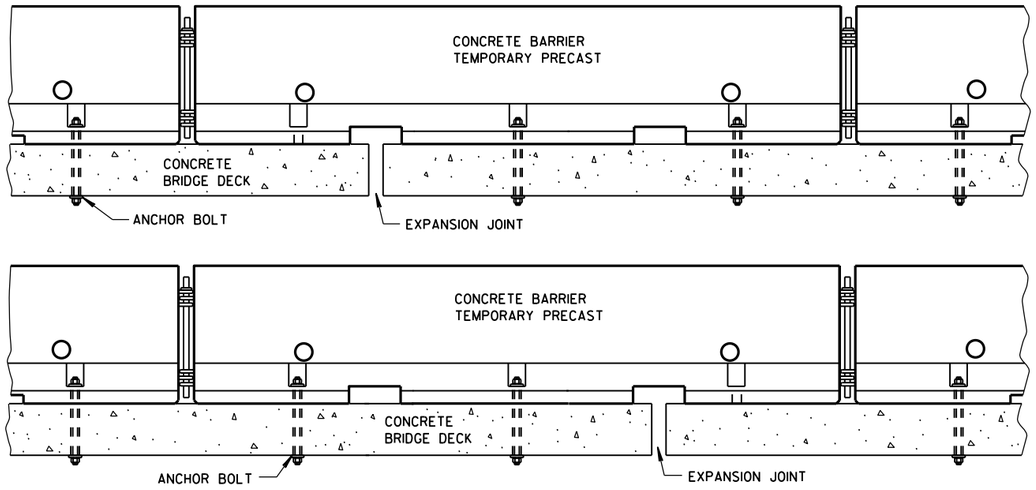
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

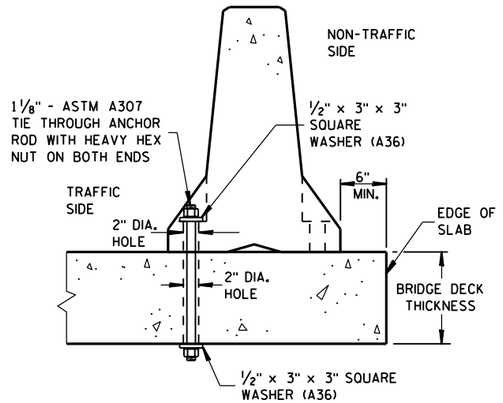
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

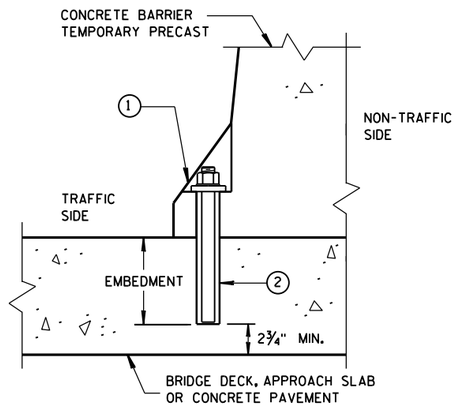
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



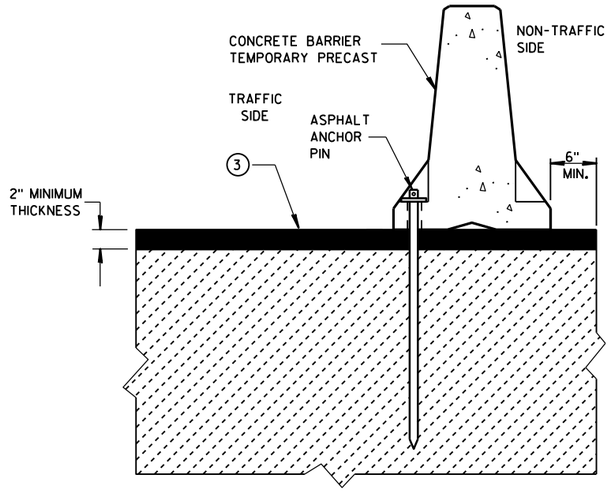
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

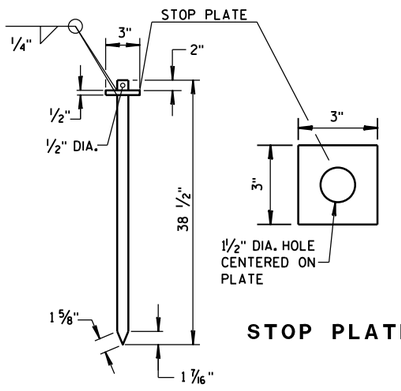


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



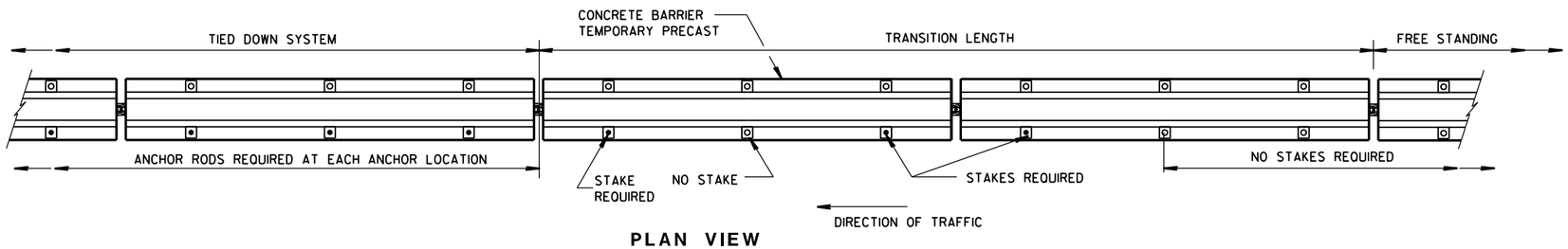
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

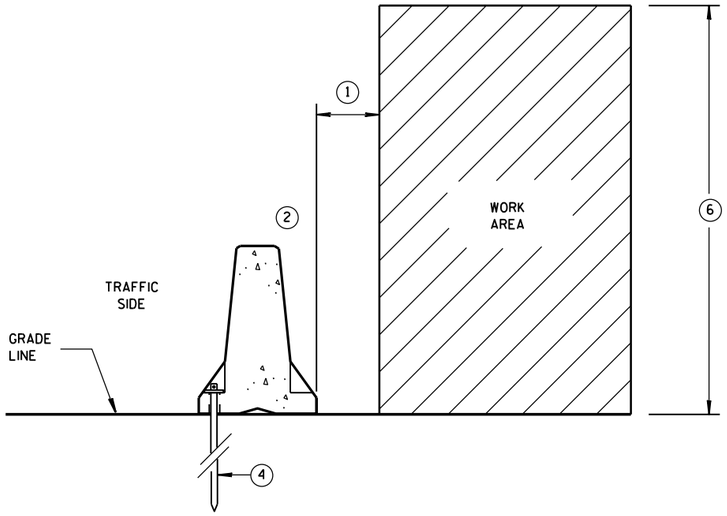
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

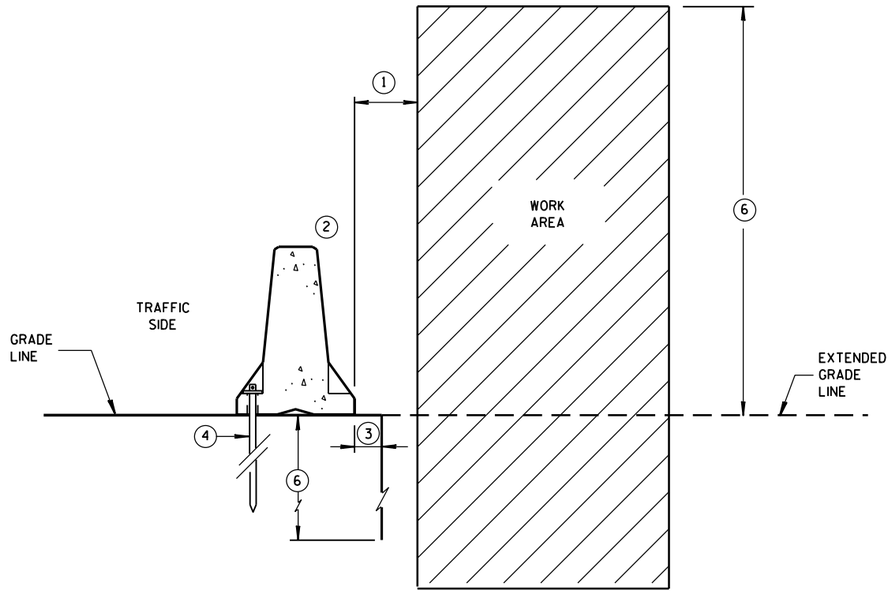
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
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ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

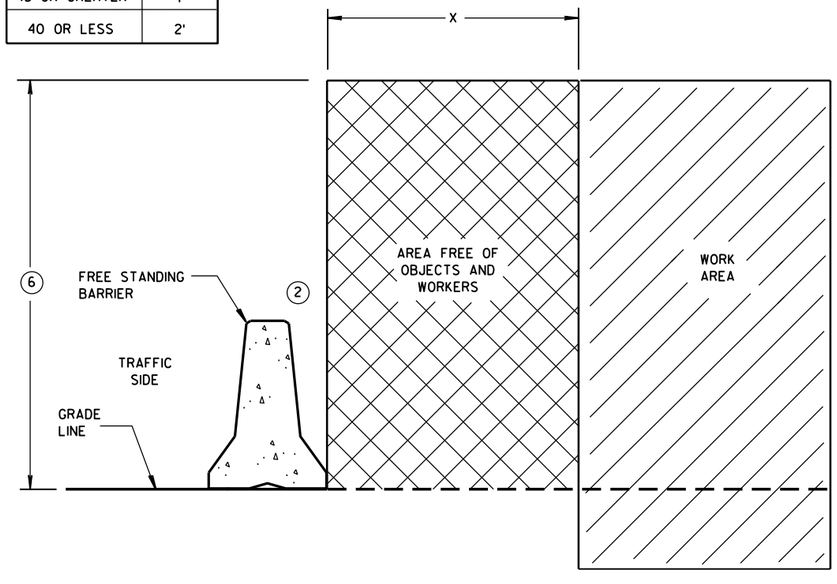


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

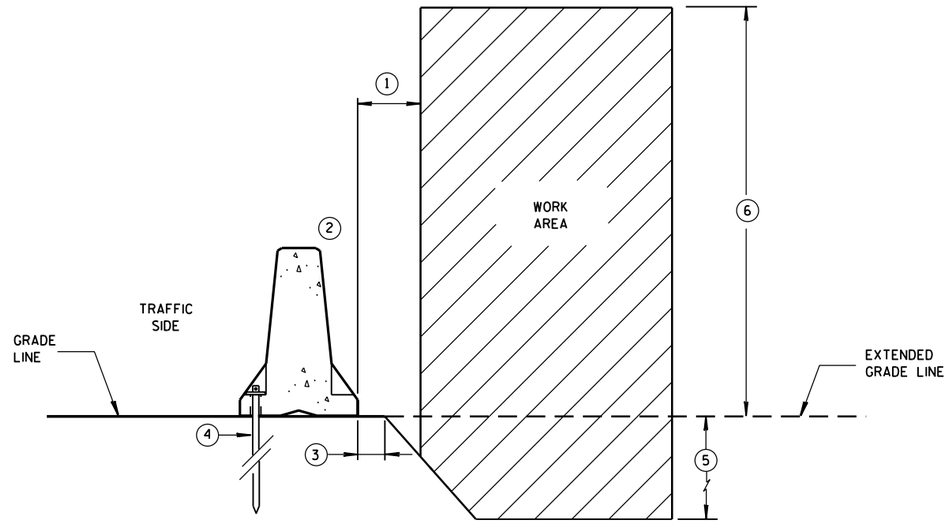
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



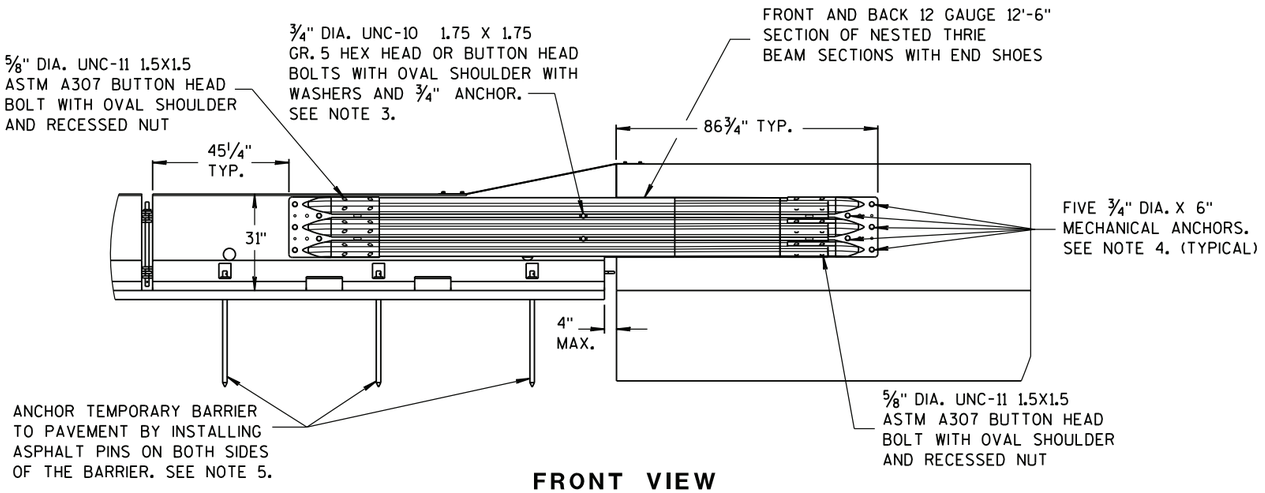
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

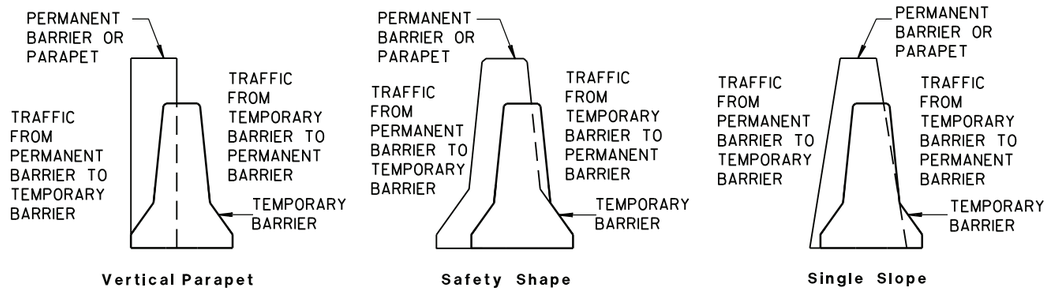
STATE OF WISCONSIN
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FRONT VIEW

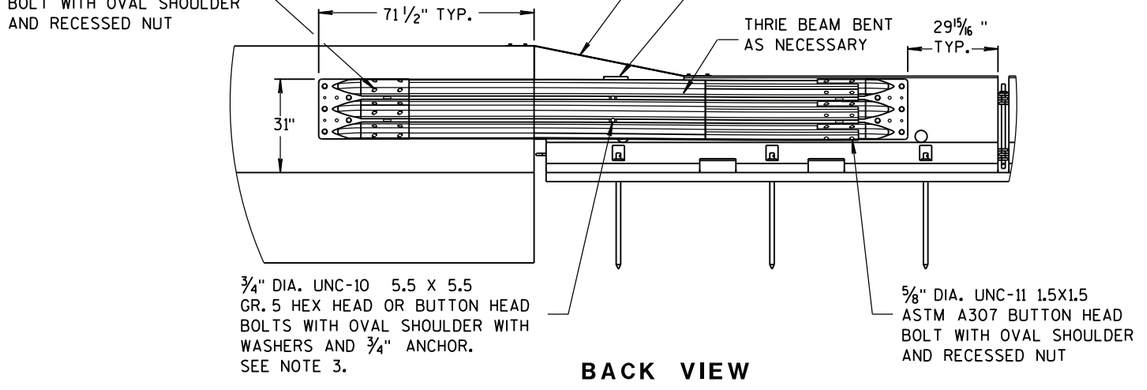


TEMPORARY BARRIER PLACEMENT FOR TRANSITION TO TIED DOWN SYSTEM

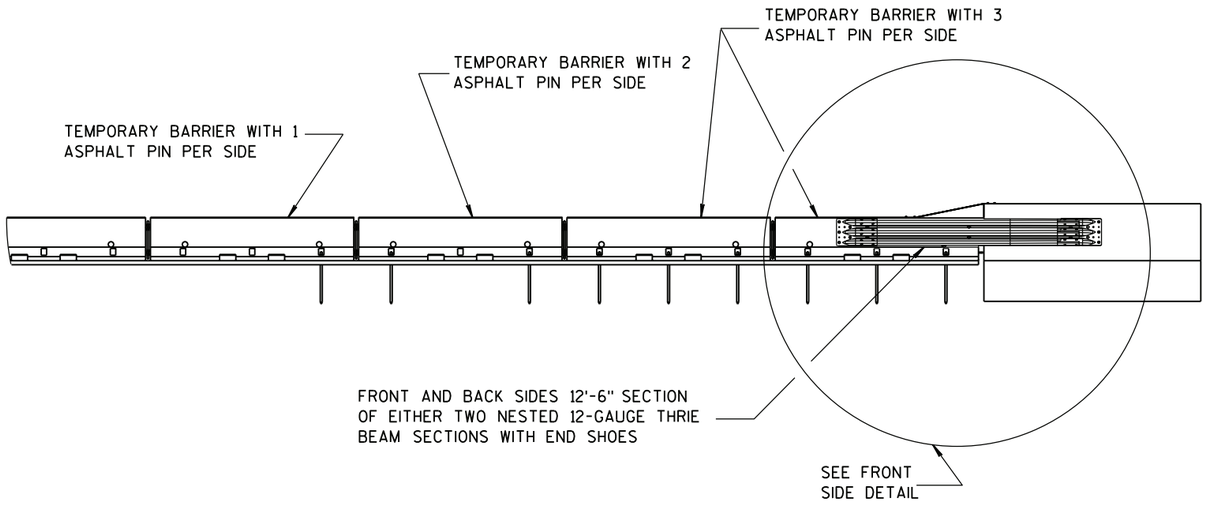
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

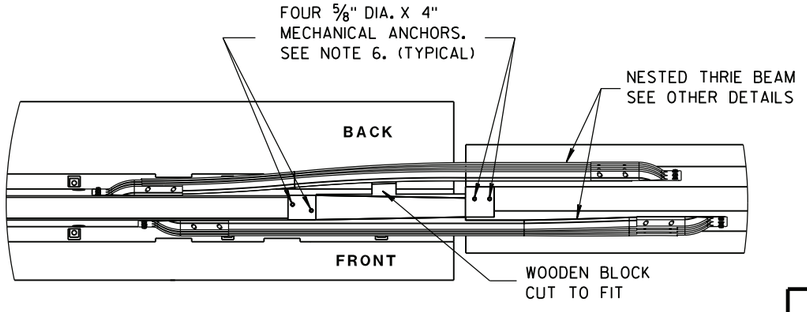
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

TRANSITION TO TIED DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

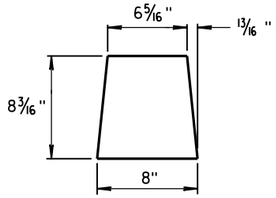
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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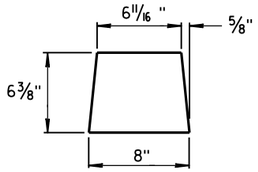
S.D.D. 14 B 7-15f

6

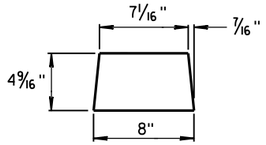
S.D.D. 14 B 7-15f



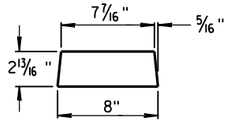
GUSSET 1



GUSSET 2

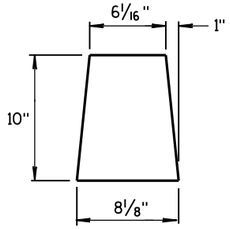


GUSSET 3

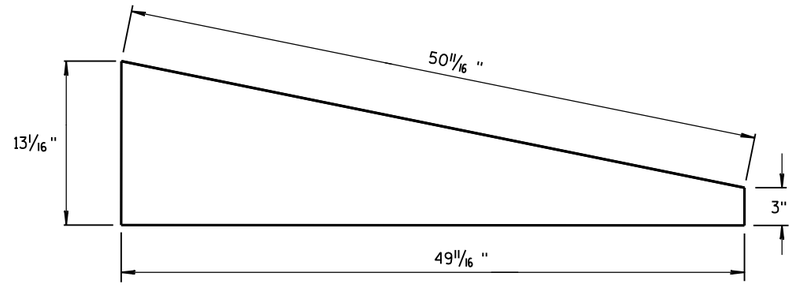


GUSSET 4

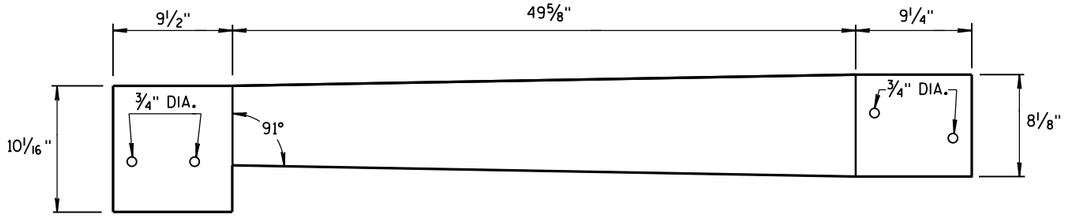
GUSSETS

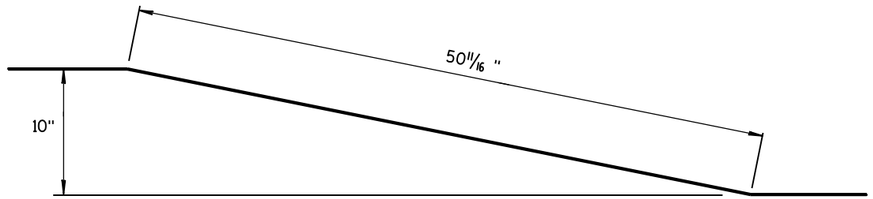


END PLATE



SIDE PLATE

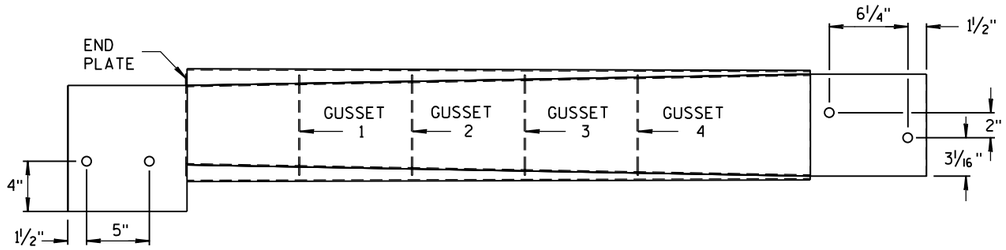


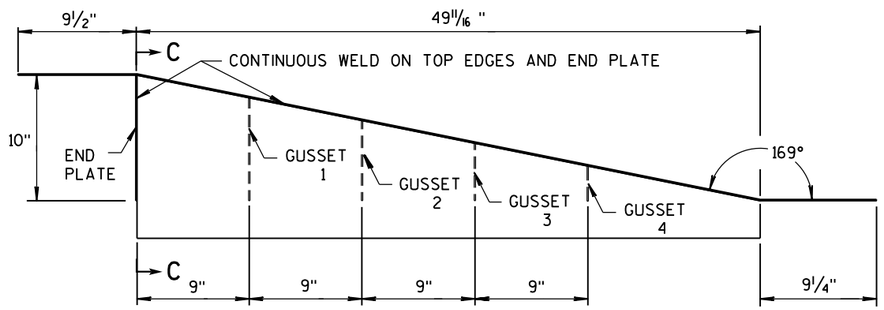


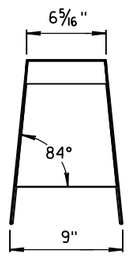
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

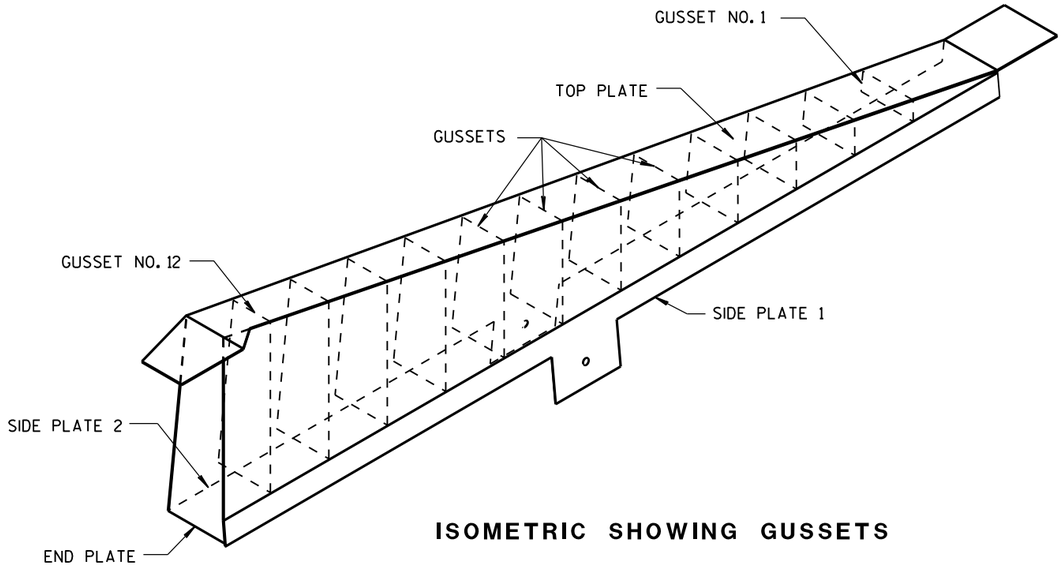
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

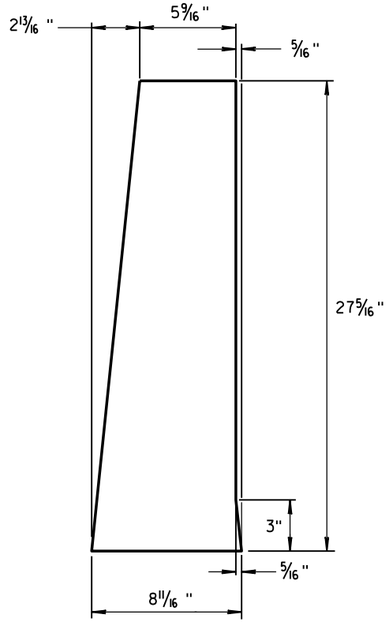
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

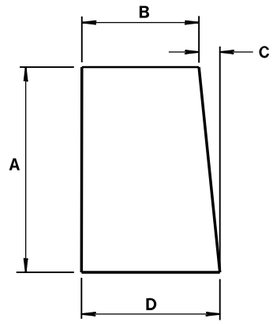


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



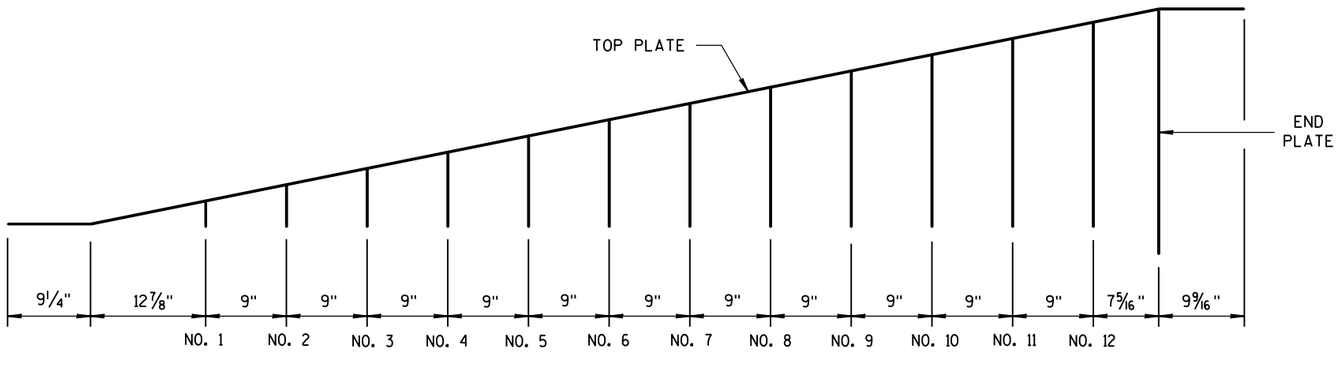
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

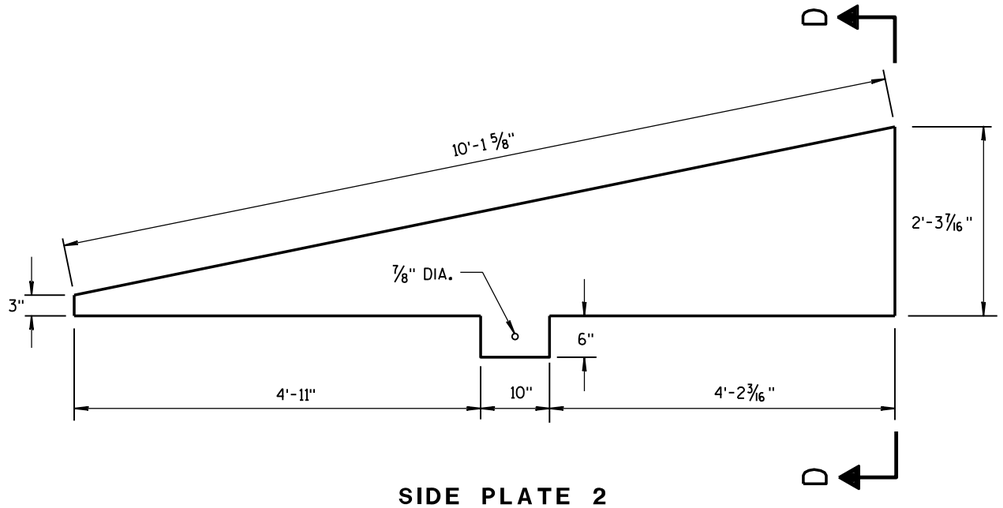
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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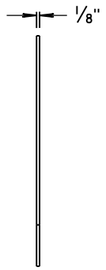
S.D.D. 14 B 7-15h

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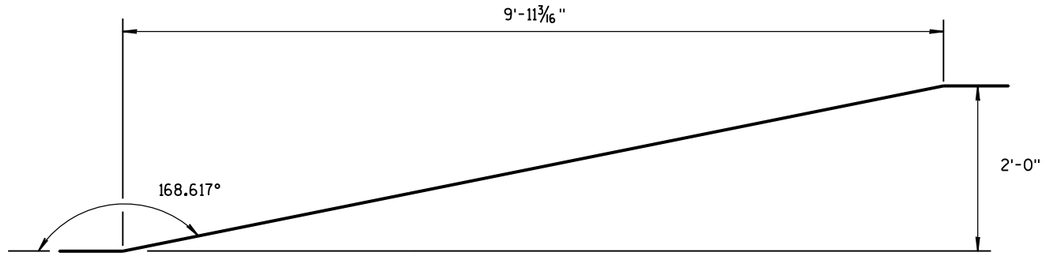
S.D.D. 14 B 7-15h



SIDE PLATE 2

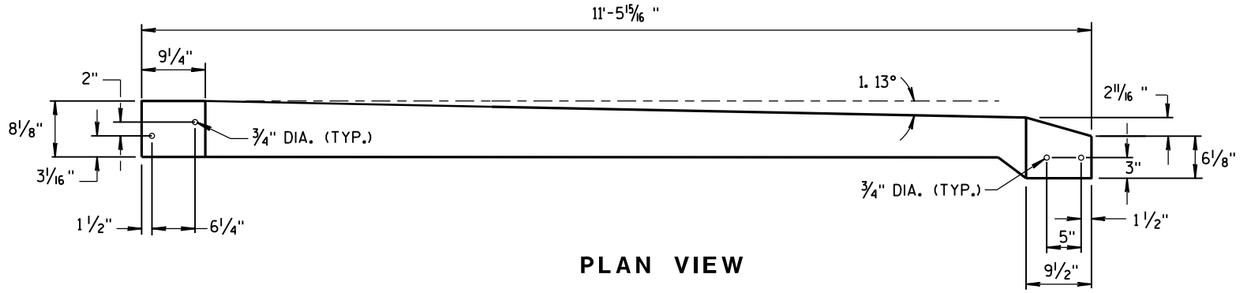


END VIEW



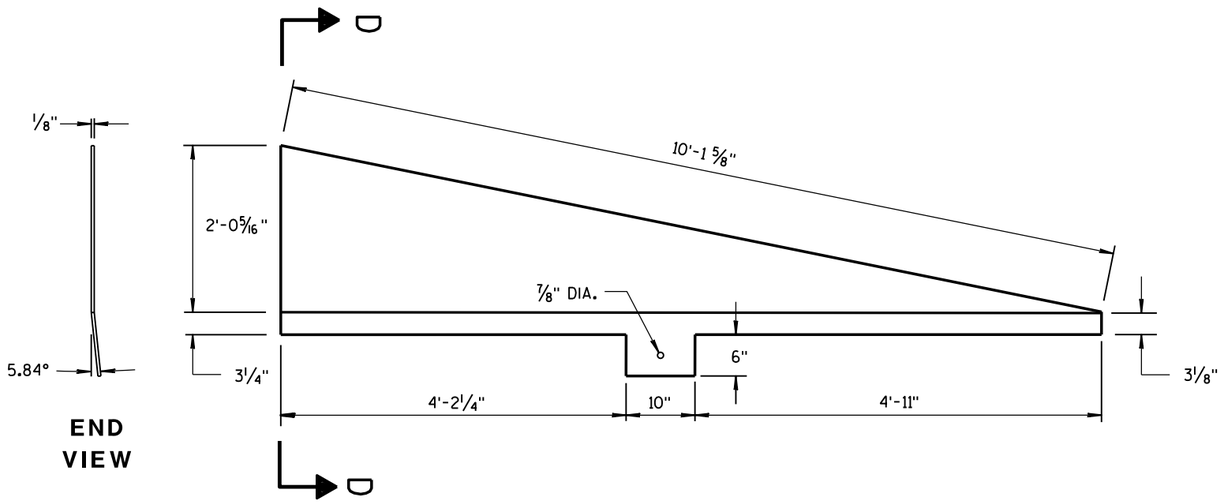
SIDE VIEW

TOP PLATE



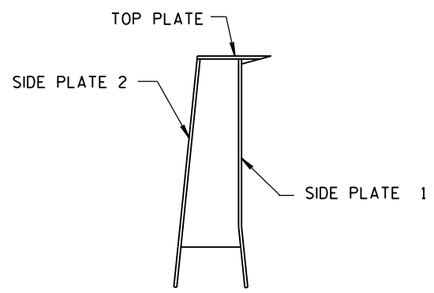
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
FHWA

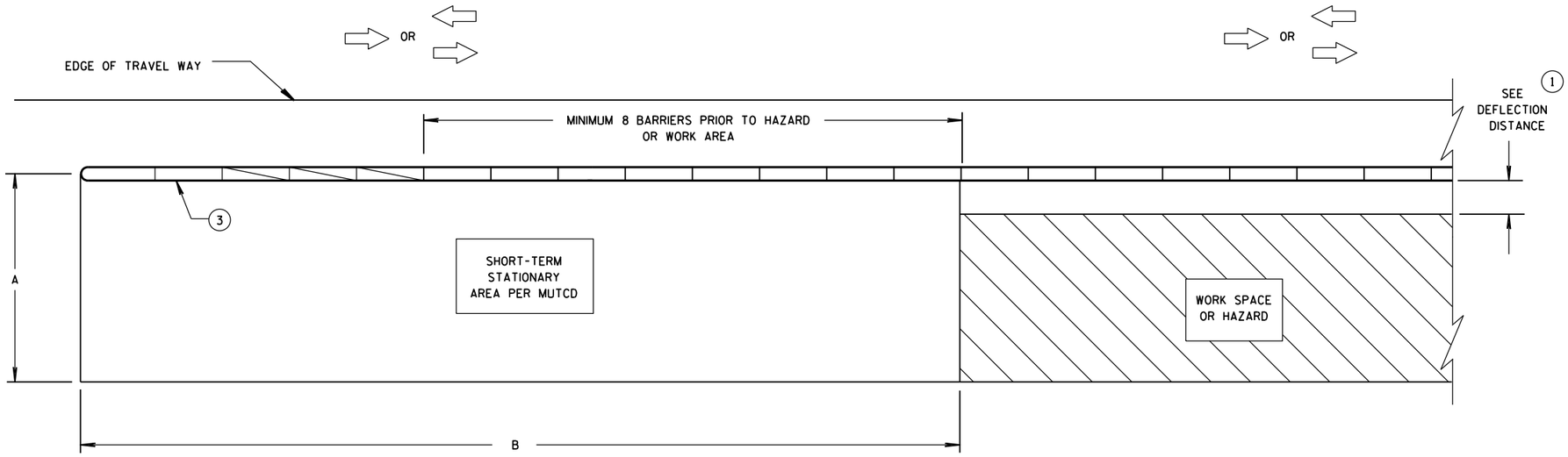
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S.D.D. 14 B 7-15i

S.D.D. 14 B 7-15i



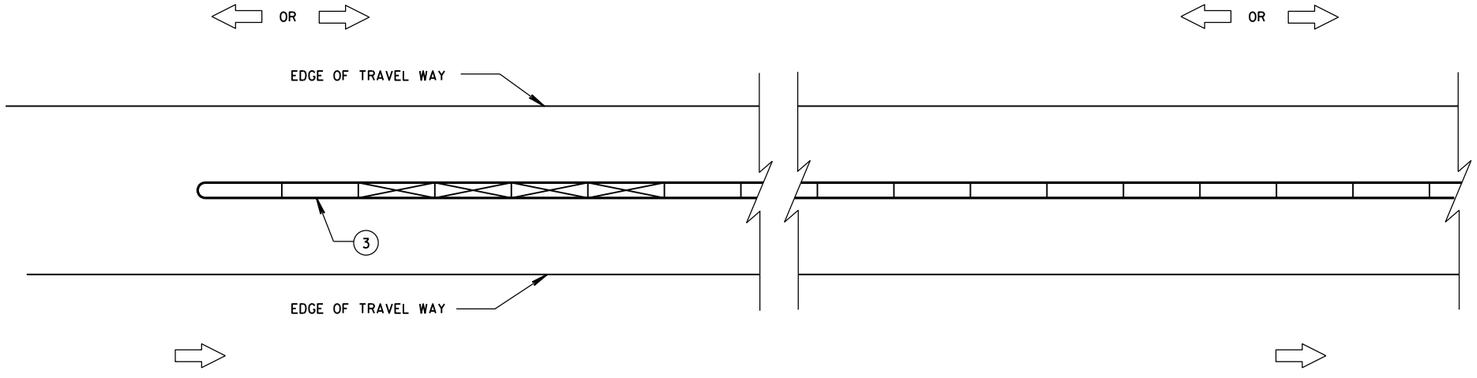
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

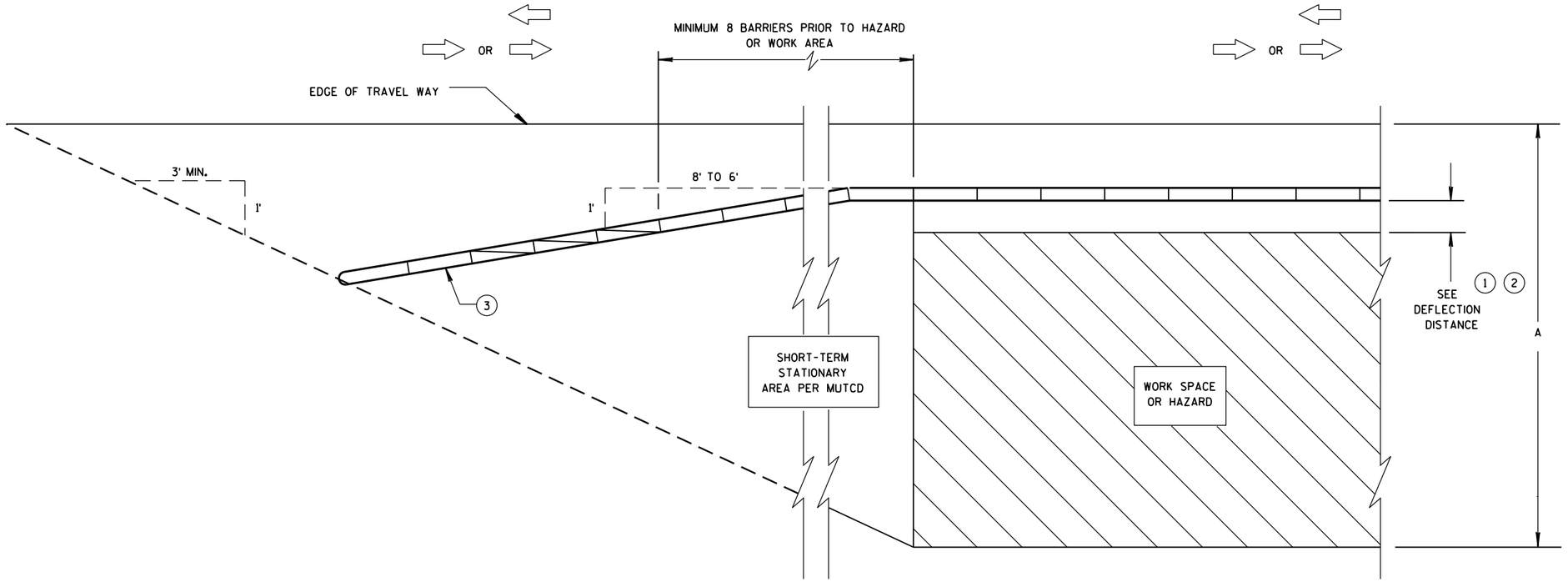
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

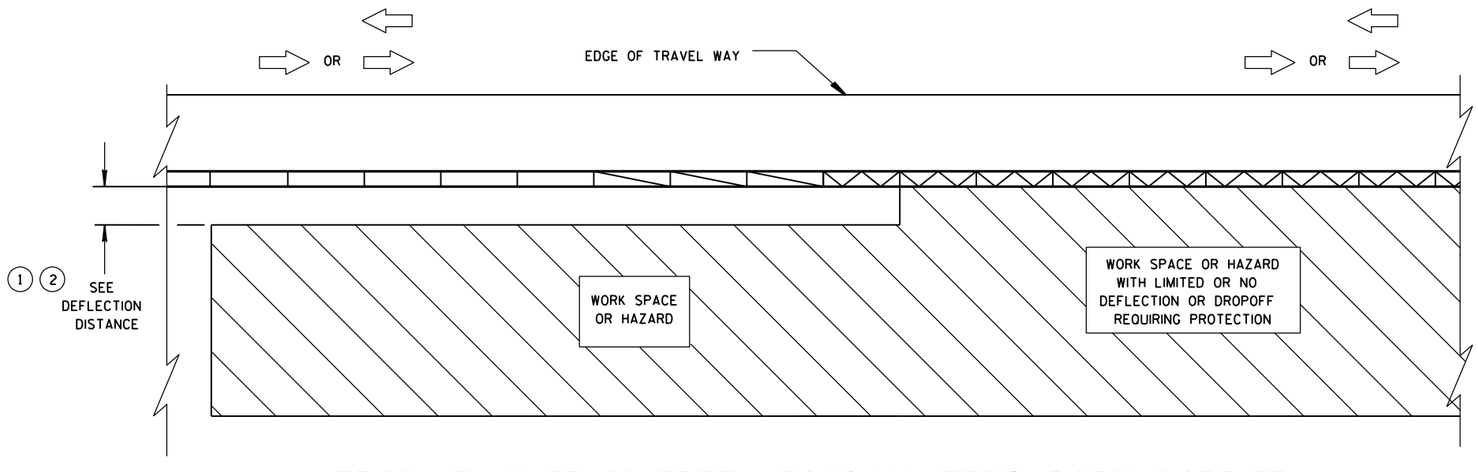
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 8-2a
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

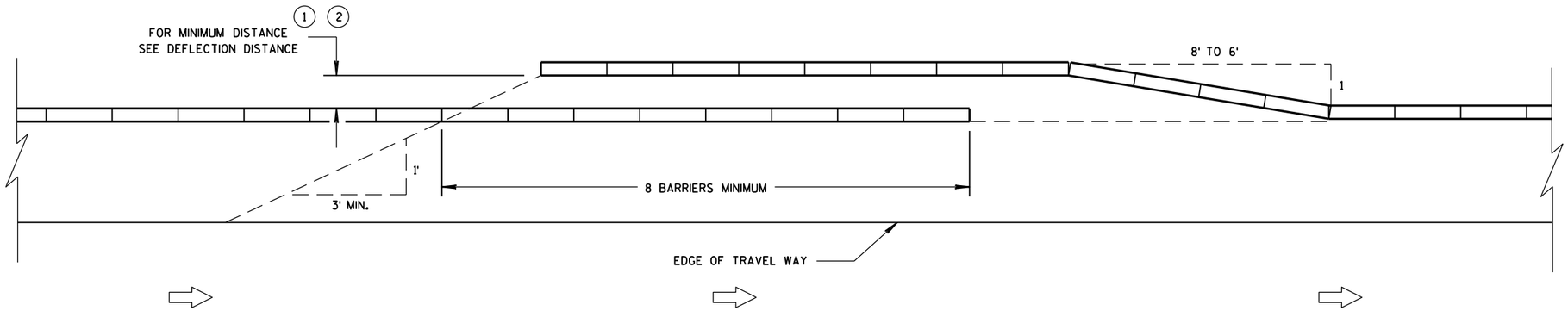
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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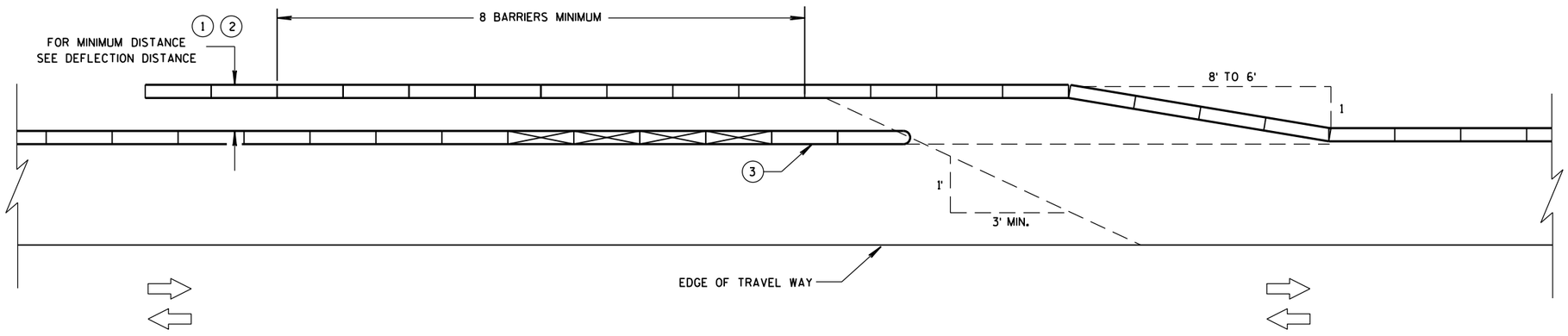
S.D.D. 14 B 8-2b

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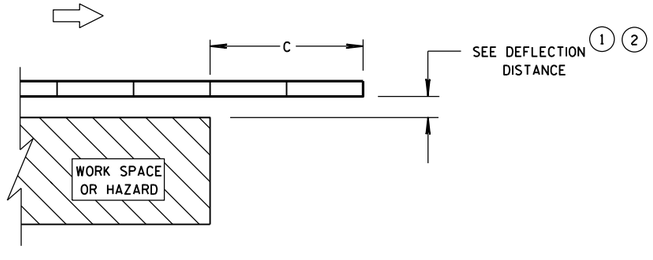
S.D.D. 14 B 8-2b



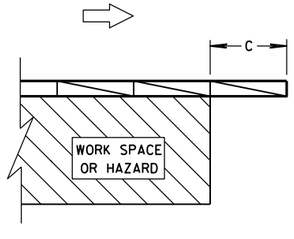
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

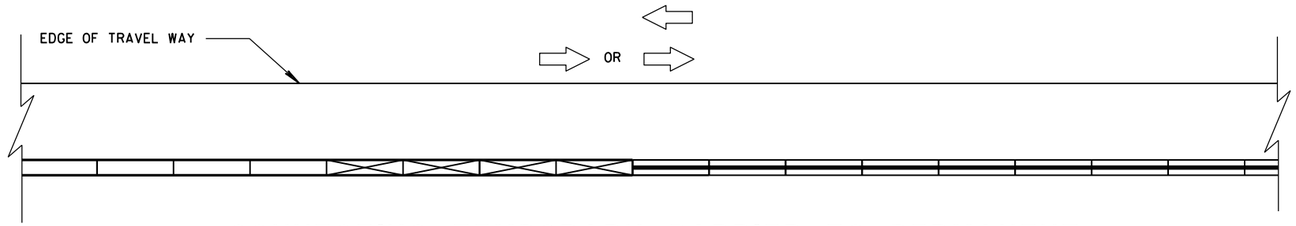
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

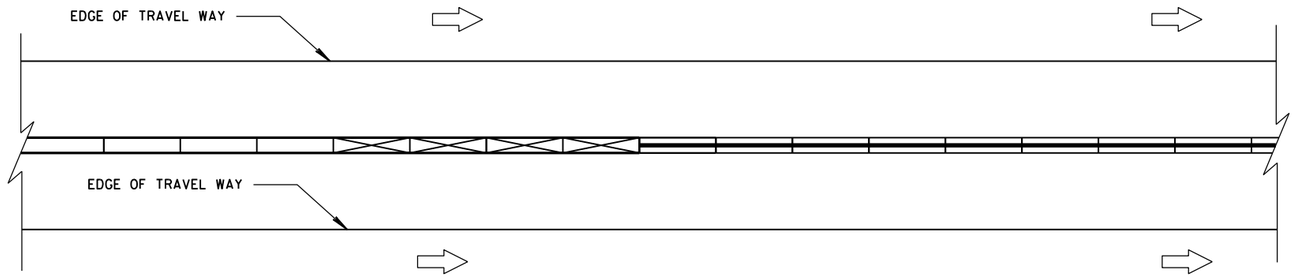
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



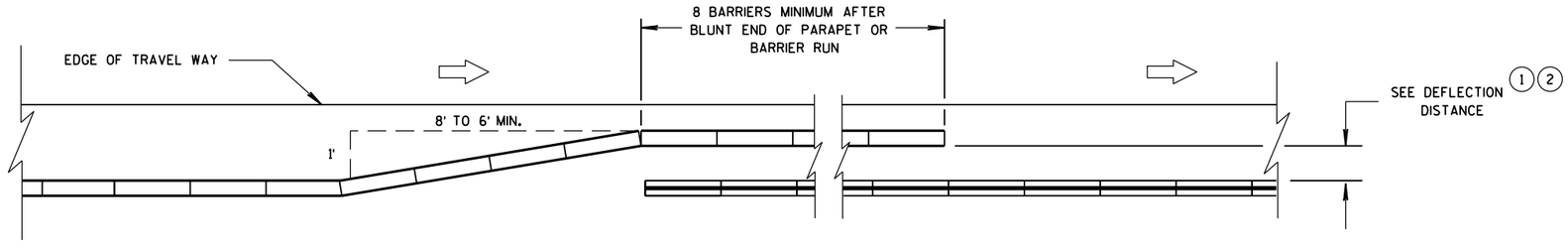
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



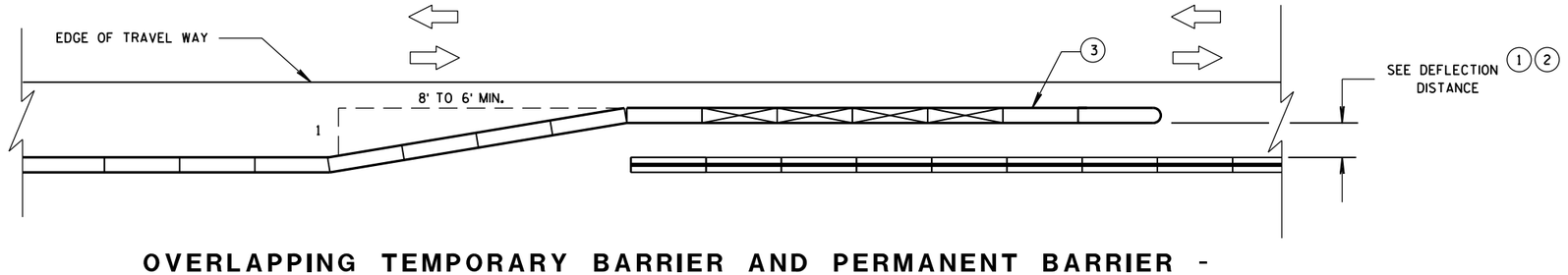
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

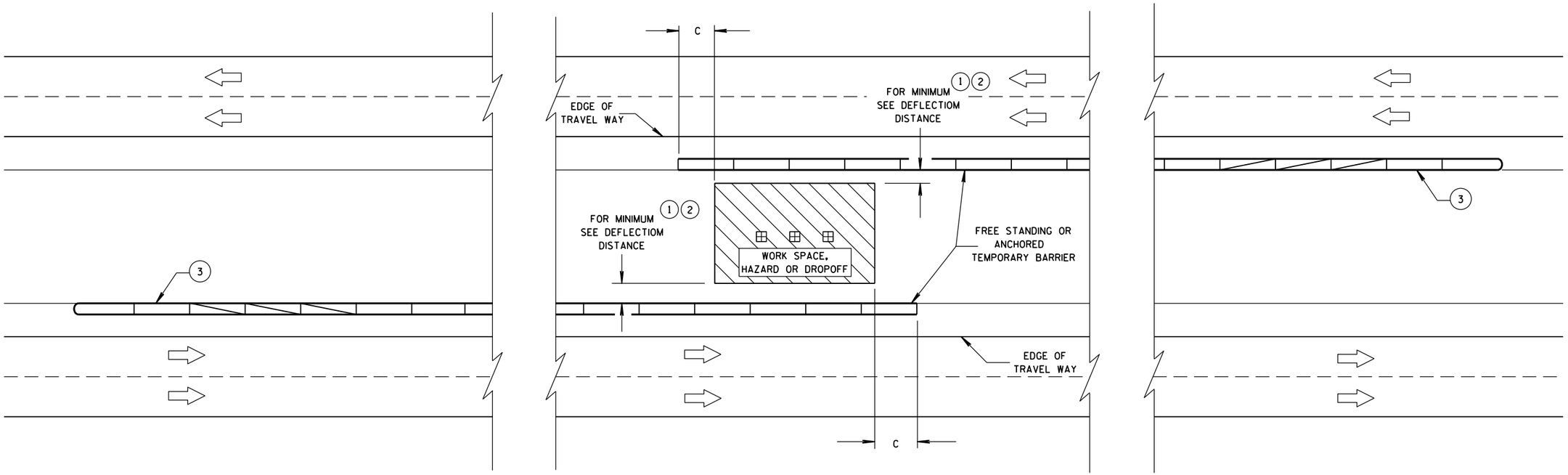
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER
FHWA

6

S.D.D. 14 B 8-2e

6

S.D.D. 14 B 8-2e

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

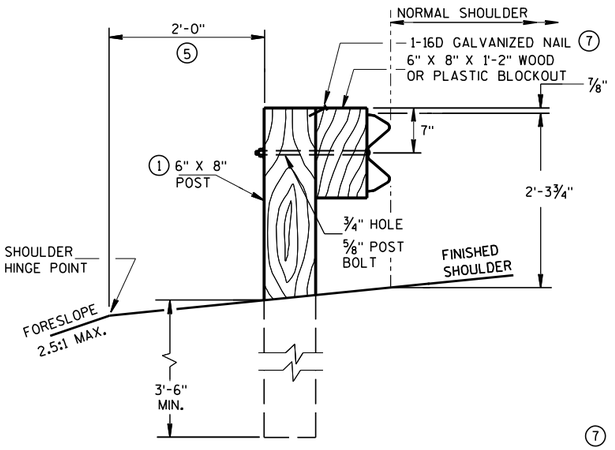
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

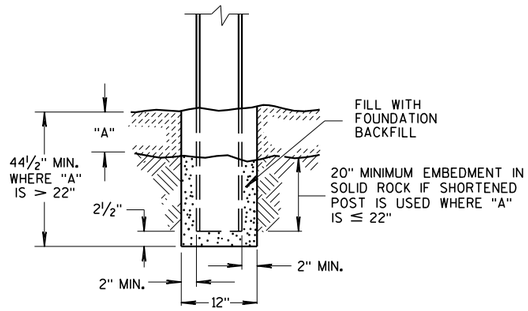
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

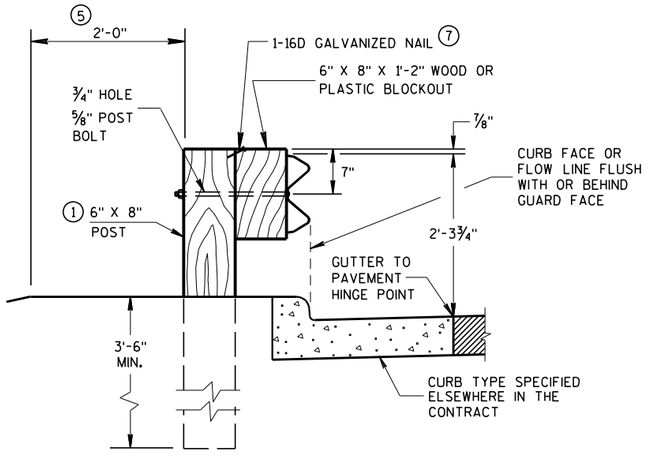
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



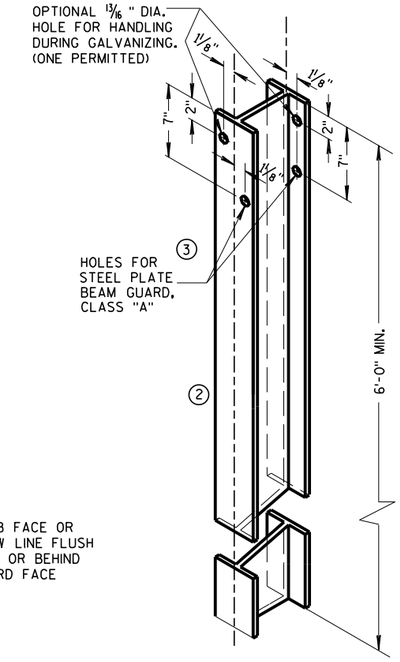
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

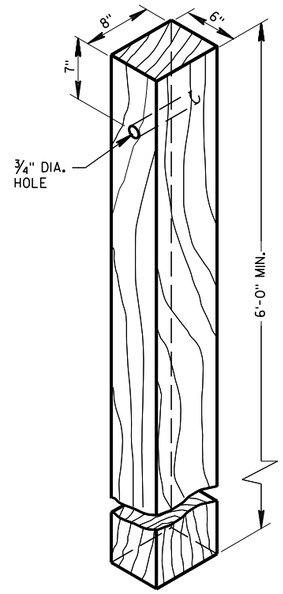


END VIEW
LOCATED ALONG A CURBED ROADWAY

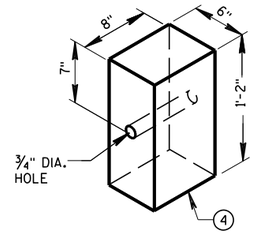


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

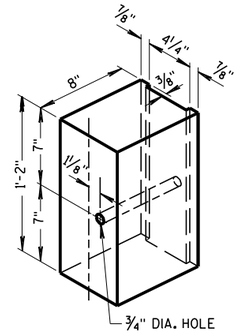
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



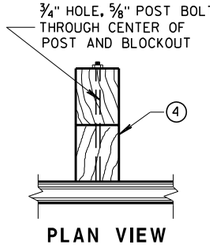
WOOD POST
(6"X8") NOMINAL



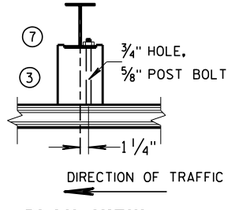
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



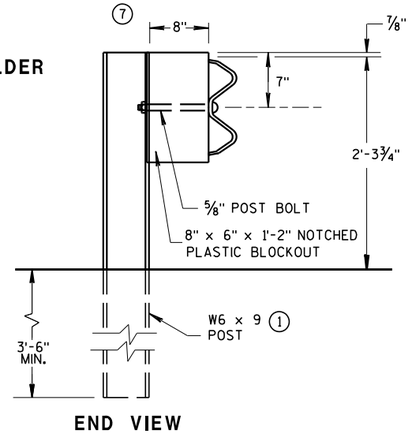
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



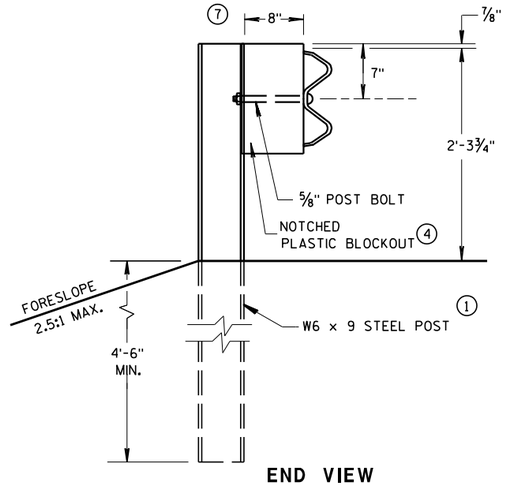
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



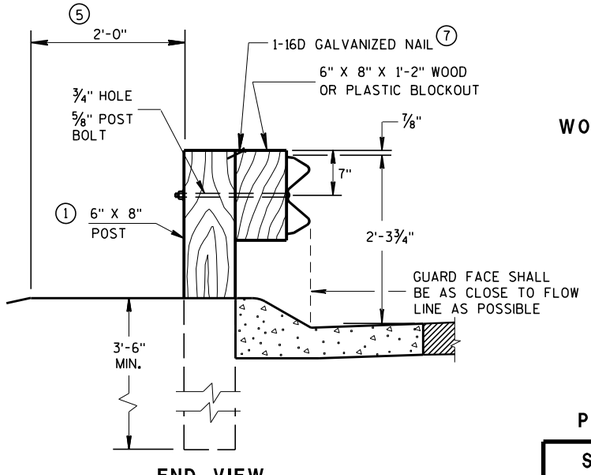
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

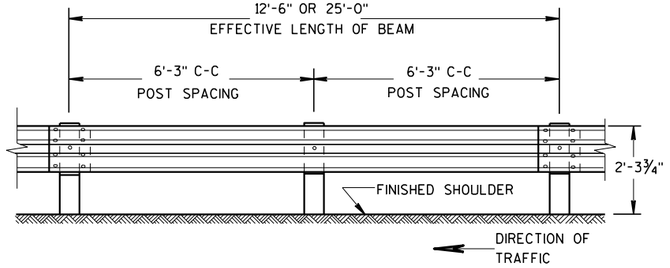


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

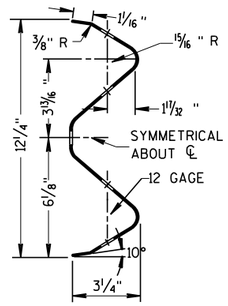
STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

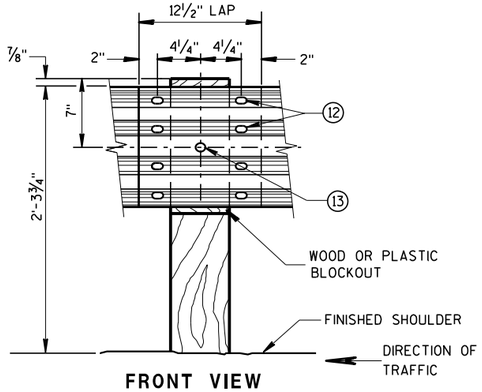


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

(12) 8 -5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.

FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.

4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *

4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

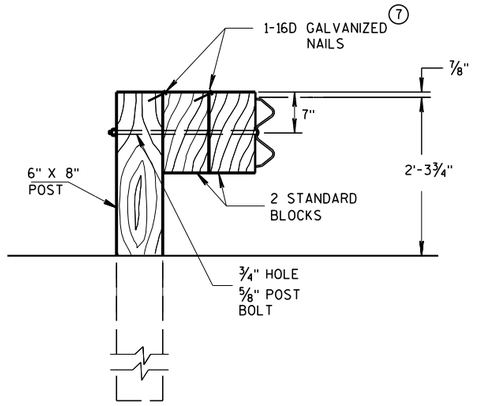
STATE OF WISCO 171
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 15-11b

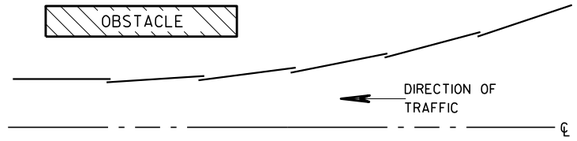
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S.D.D. 14 B 15-11b

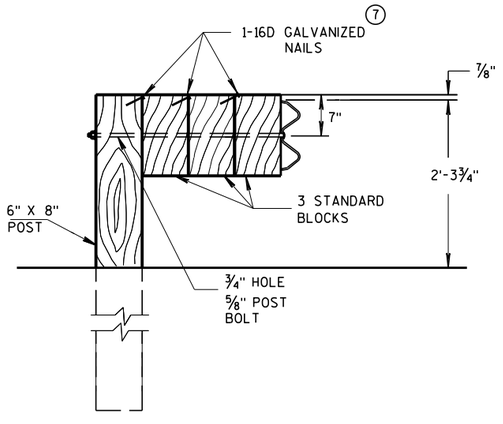


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

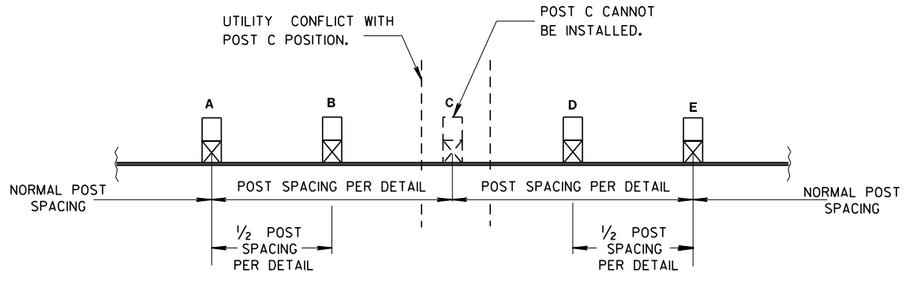


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

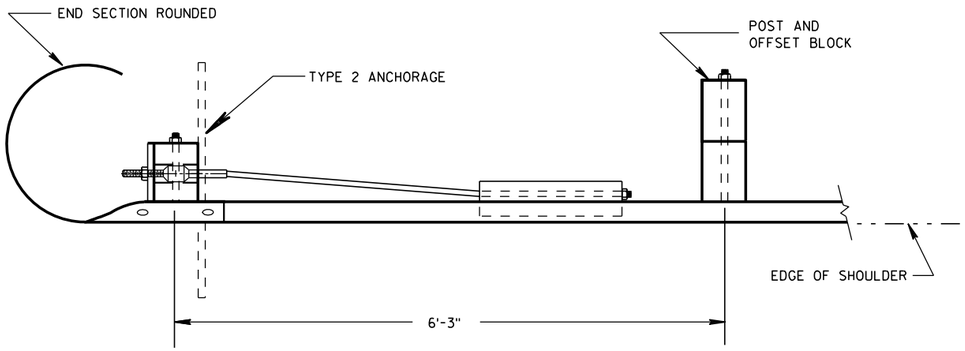
DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

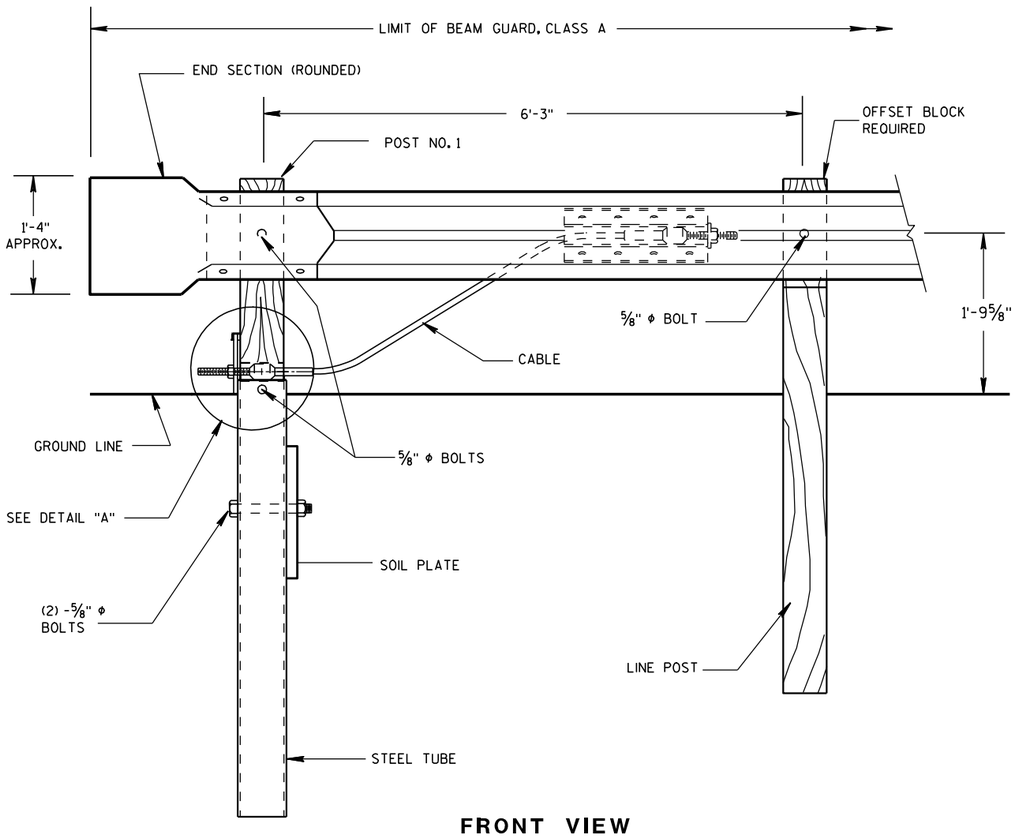
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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S.D.D. 14 B 15-11c



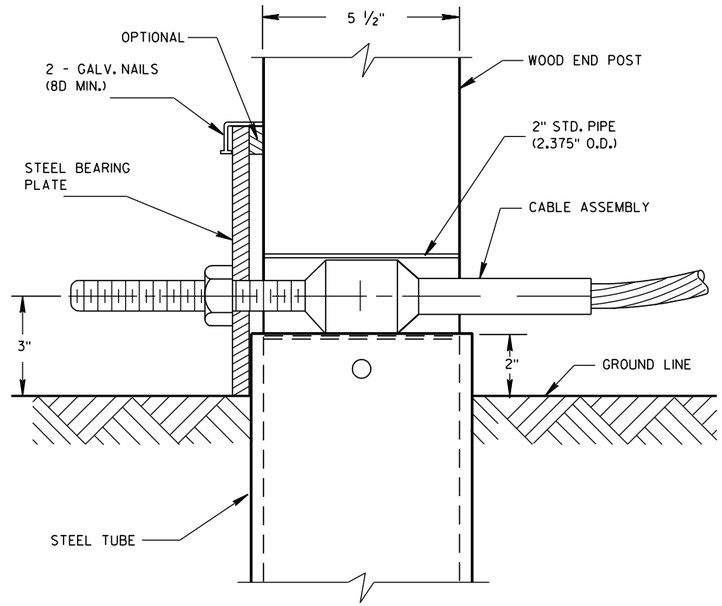
PLAN VIEW



FRONT VIEW

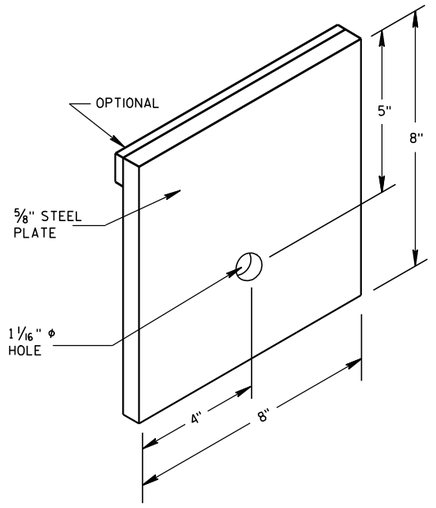
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1



STEEL BEARING PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

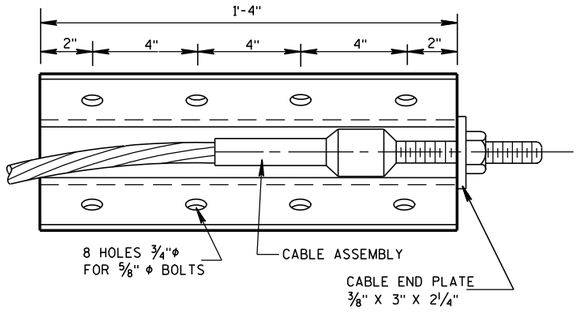
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

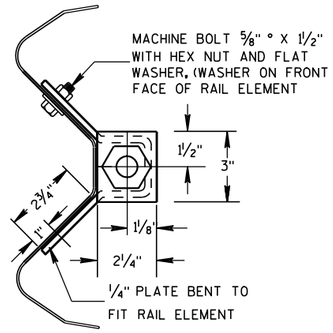
S.D.D. 14 B 16-4a

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S.D.D. 14 B 16-4a

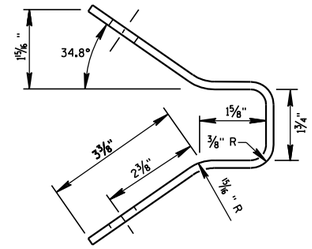


FRONT VIEW

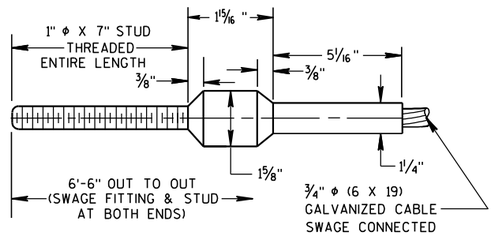


END VIEW

ANCHOR PLATE DETAIL



END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP
A MINIMUM BREAKING STRENGTH OF 40,000 LB
(TIGHTEN UNTIL TAUT)

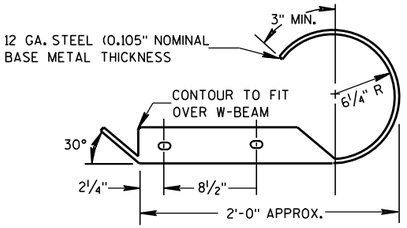
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THW STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

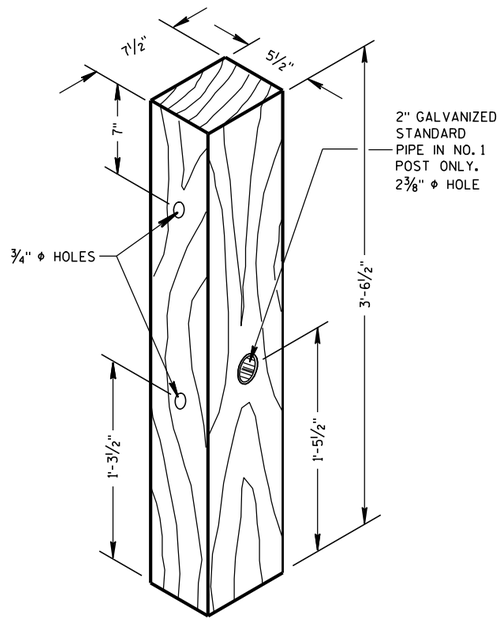
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

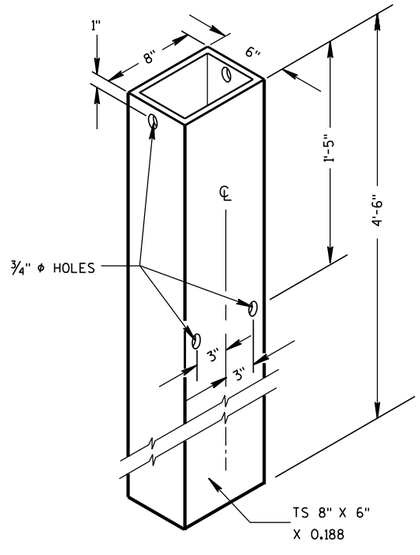
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

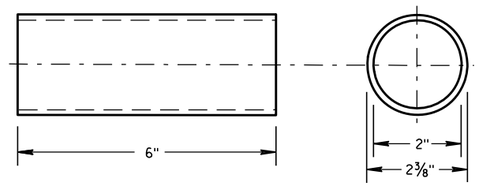


WOOD BREAKAWAY POST



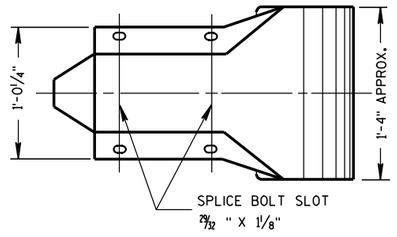
STEEL TUBE

STEEL TUBE SHALL CONFORM TO
REQUIREMENTS OF ASTM A500

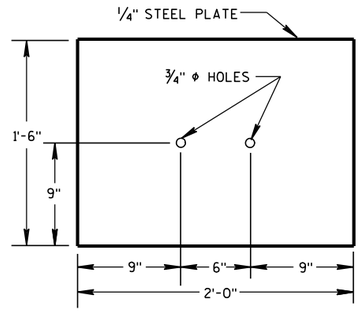


BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"



FRONT VIEW
W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

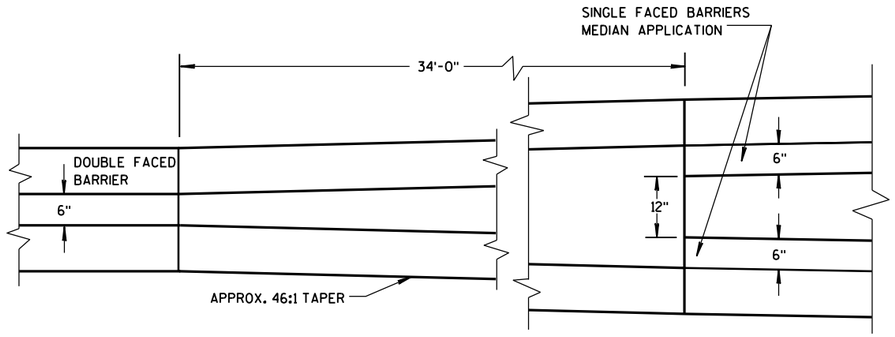
APPROVED
8/21/2007
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 16-4b

6

S.D.D. 14 B 16-4b



PLAN VIEW

TRANSITION DETAILS OF DOUBLE FACED TO SINGLE FACED CONCRETE MEDIAN BARRIER

(FOOTINGS ARE NOT SHOWN)

GENERAL NOTES

SPLICES OF LONGITUDINAL BARS SHALL BE MADE WITH BARS LAPPED AT LEAST 18-INCHES AND FIRMLY TIED OR FASTENED TOGETHER.

ALL BAR STEEL REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF AASHTO M31, GRADE 60.

(1) BARRIER SHALL BE INSTALLED ON A CONCRETE SHOULDER INSTEAD OF THE CONCRETE FOOTING WHEN SPECIFIED OR SHOWN ELSEWHERE IN CONTRACT.

(2) OPENINGS FOR DRAINAGE SHALL BE PLACED AT LOW POINTS OF VERTICAL CURVES OR WHERE DIRECTED BY THE ENGINEER.

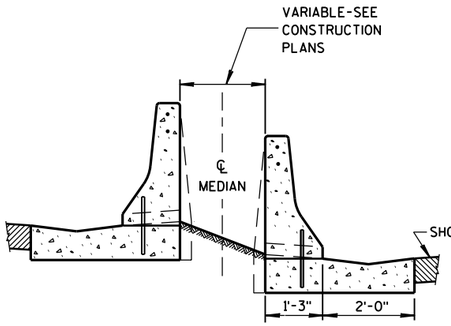
(3) 3/4-INCH BEVEL OR 1-INCH RADIUS (TYPICAL).

(4) NO. 4 BARS SHALL BE CONTINUED THROUGH CONSTRUCTION JOINTS.

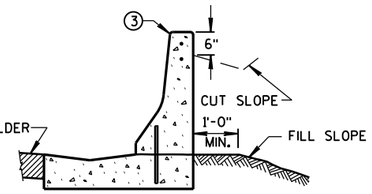
(5) EXPANSION JOINTS SHALL BE PLACED AT EXISTING EXPANSION JOINTS IN THE PAVEMENT AND AT STRUCTURES. SEE REINFORCEMENT AT BARRIER END DETAIL.

(6) SAWED CONTRACTION JOINTS SHALL BE PROVIDED ACROSS THE FULL WIDTH OF THE BARRIER FOOTING, AND IN FRONT, TOP AND BACK FACE OF THE BARRIER AT EXISTING PAVEMENT JOINTS AND AT UNIFORM INTERVALS BETWEEN WITH A MAXIMUM SPACING OF 25 FEET.

HIGH SIDE
CONCRETE BARRIER DETAIL

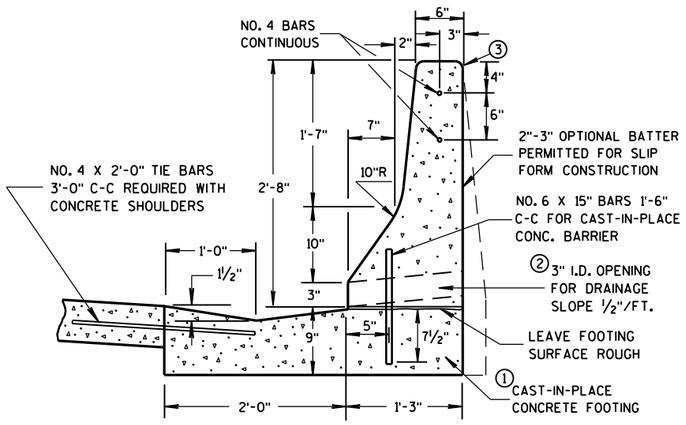


MEDIAN

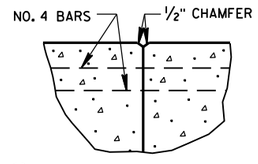


SHOULDER

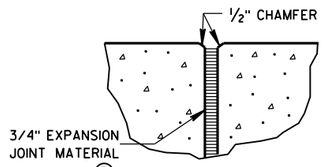
TYPICAL APPLICATIONS



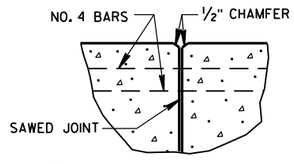
SECTION VIEW



4 CONSTRUCTION JOINT



5 EXPANSION JOINT



6 CONTRACTION JOINT

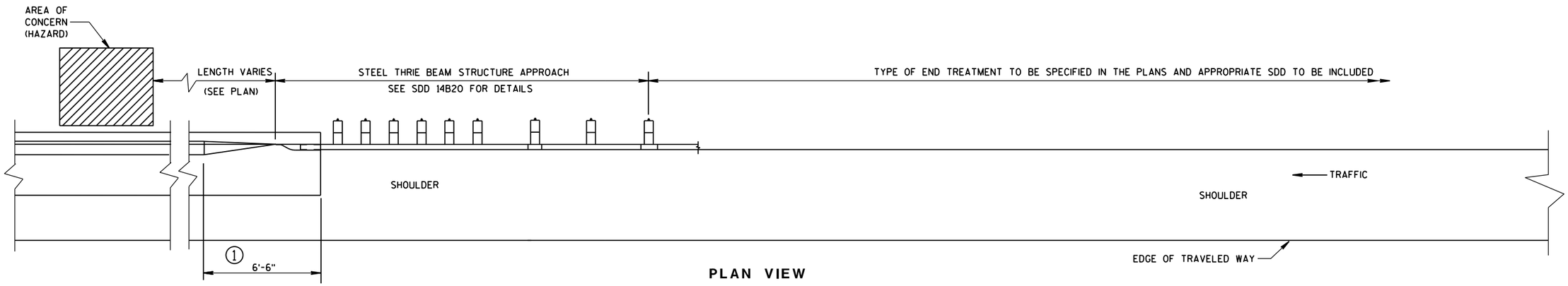
JOINT DETAILS

CONCRETE BARRIER,
SINGLE-FACED
(WITH ANCHORAGE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

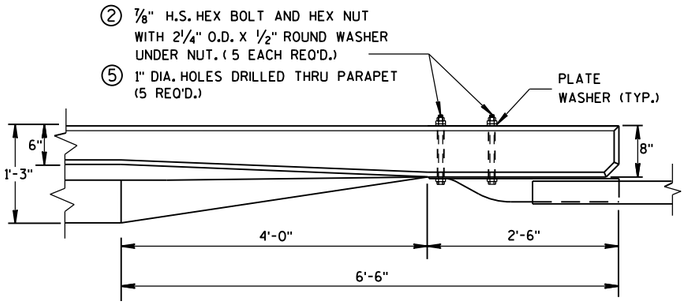
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S.D.D. 14 B 22-6a



PLAN VIEW

TRANSITION TO STEEL PLATE BEAM GUARD AND END TERMINAL



PLAN VIEW

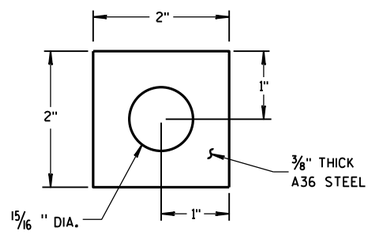
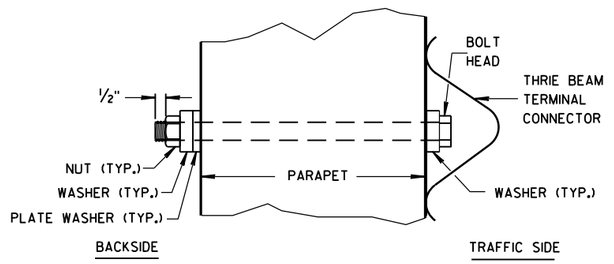


PLATE WASHER DETAIL



THRIE BEAM BOLT DETAIL

GENERAL NOTES

① A SPECIAL END IS REQUIRED ON THE CONCRETE BARRIER TO TRANSITION TO A CONNECTION WITH THE STEEL THRIE BEAM STRUCTURE APPROACH. SEE THE DETAILS ON THIS SHEET.

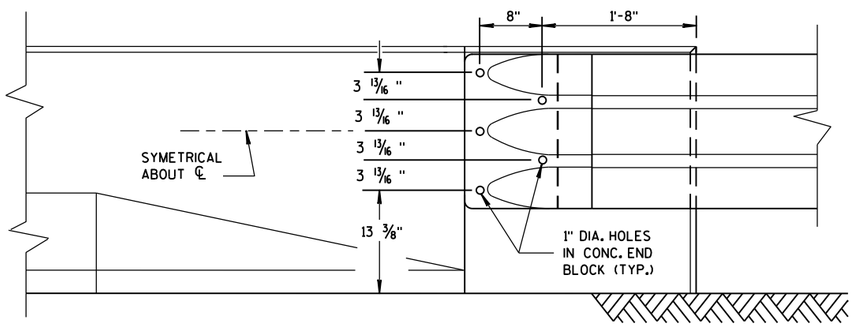
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ REINFORCEMENT REQUIRED AT EXPANSION JOINTS AND WHERE CONCRETE BARRIER IS TERMINATED.

④ PLACE REINFORCEMENT SUCH THAT IT WILL NOT CONFLICT WITH THE BOLT HOLES IN THE THRIE BEAM TERMINAL CONNECTOR.

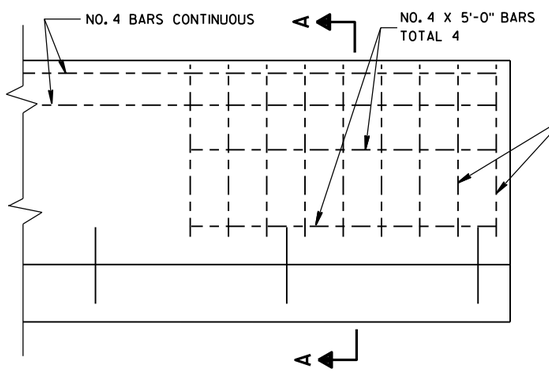
⑤ INCLUDE THE PAYMENT FOR DRILLING BOLT HOLES THROUGH THE PARAPET, AND ALL BOLTS, NUTS AND WASHERS IN THE ITEM "STEEL THRIE BEAM STRUCTURAL APPROACH".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

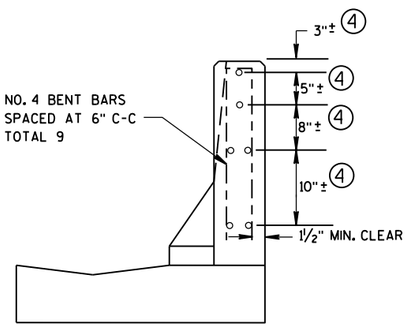


FRONT VIEW

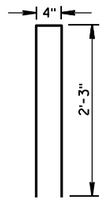
CONCRETE BARRIER TRANSITION TO THRIE BEAM



FRONT VIEW



SECTION A-A



BENT BAR DETAIL

③ REINFORCEMENT AT BARRIER END

CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 22-6b

6

S.D.D. 14 B 22-6b

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

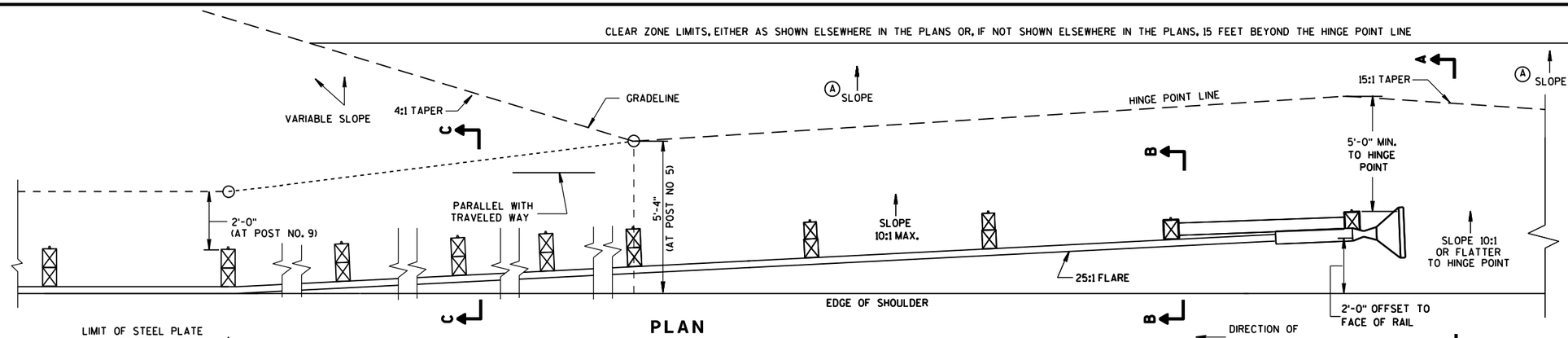
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

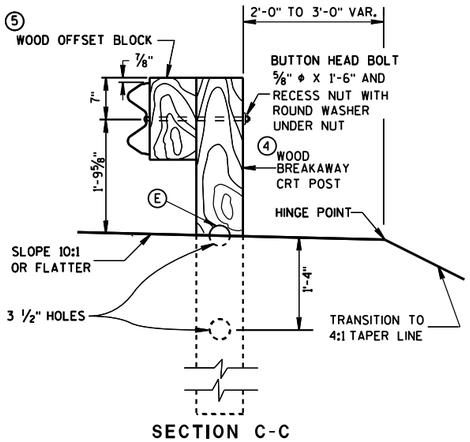
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

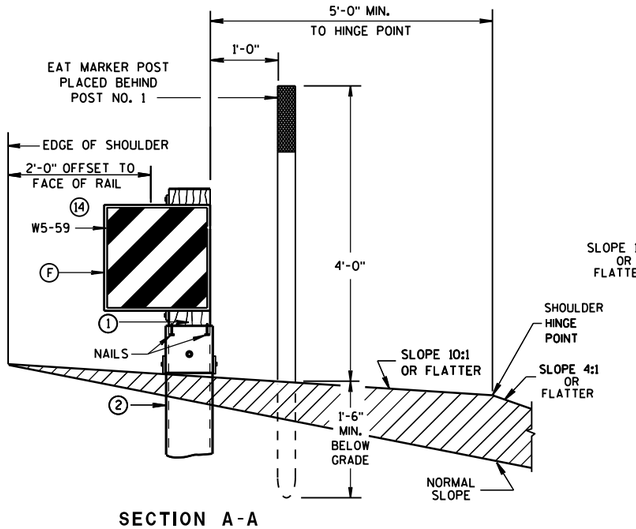
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

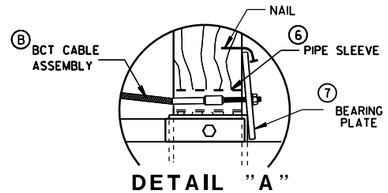
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

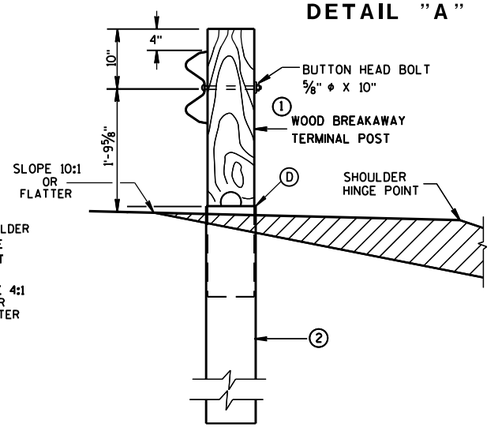
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

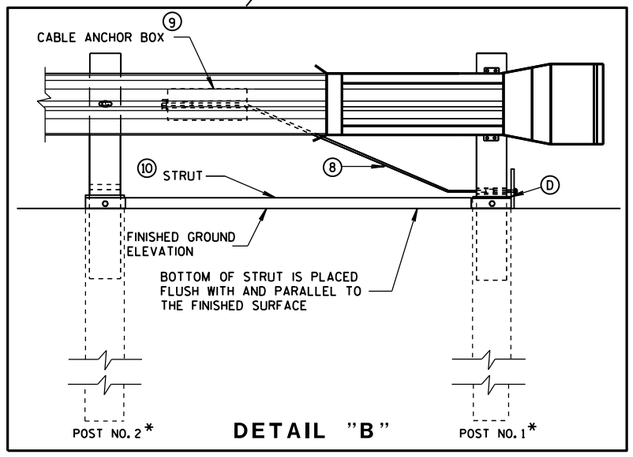












STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

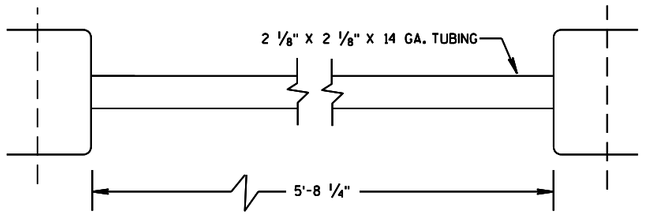
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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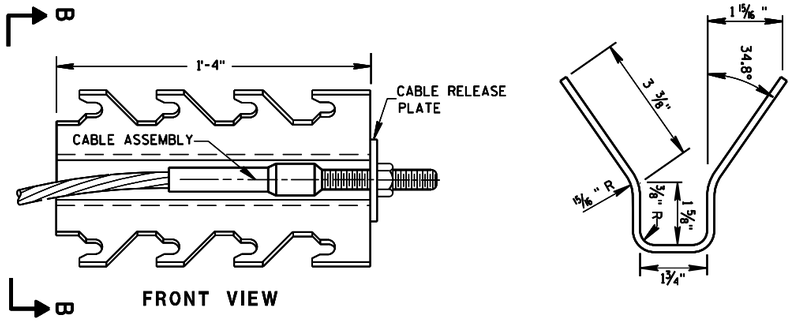
S.D.D. 14 B 24-9a

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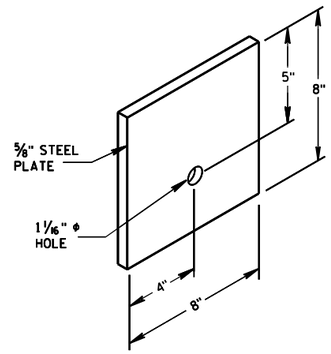
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL



⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

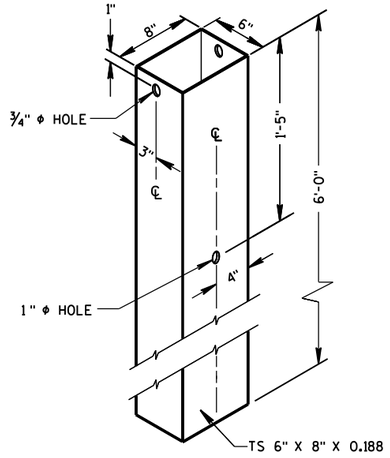
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S.D.D. 14 B 24-9b

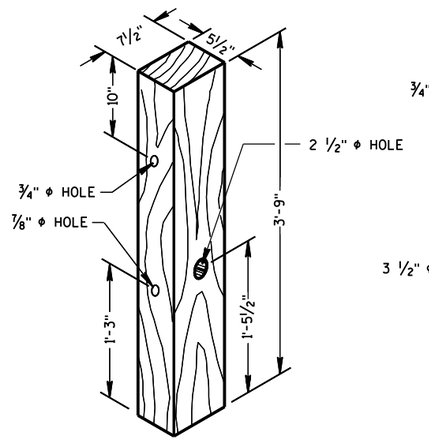
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

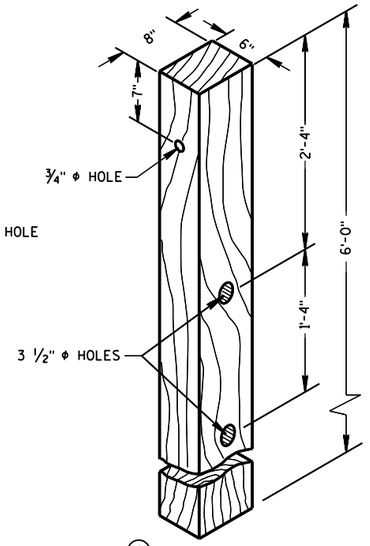
STATE OF WISCONSIN
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② 72" STEEL TUBE
(POSTS NO. 1-2



① TERMINAL POST

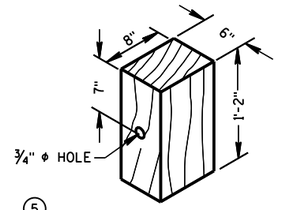


④ CRT POST
(POSTS NO'S 5-8

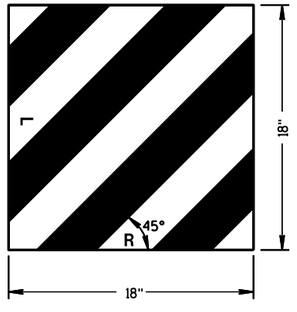
WOOD BREAKAWAY POSTS

GENERAL NOTES

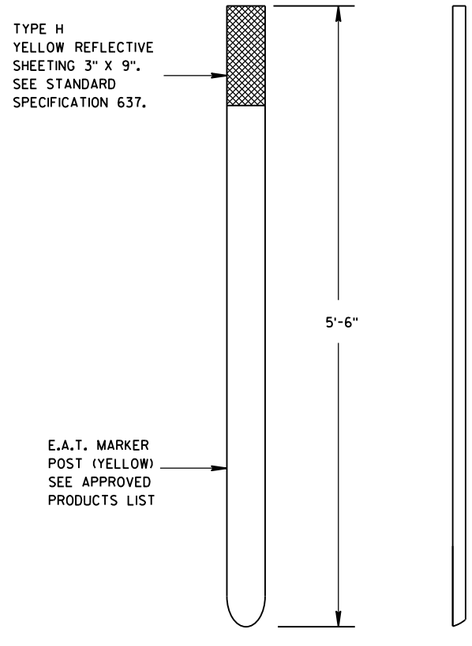
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV...

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S.D.D. 14 B 24-9c

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S.D.D. 14 B 24-9c

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

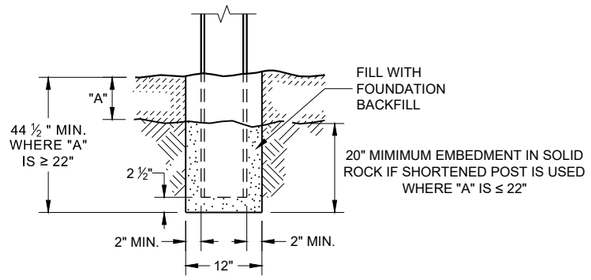
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

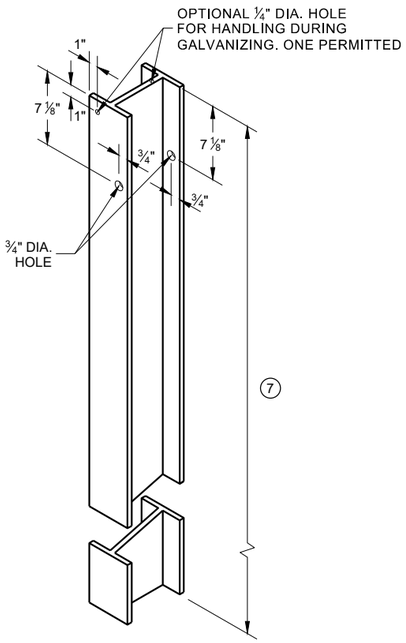
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

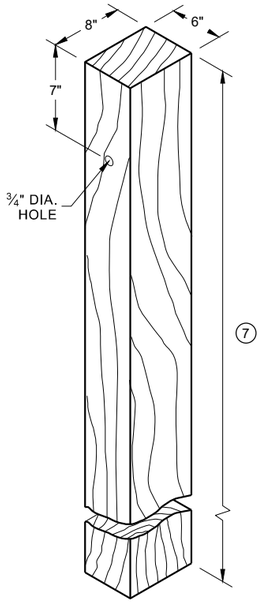
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



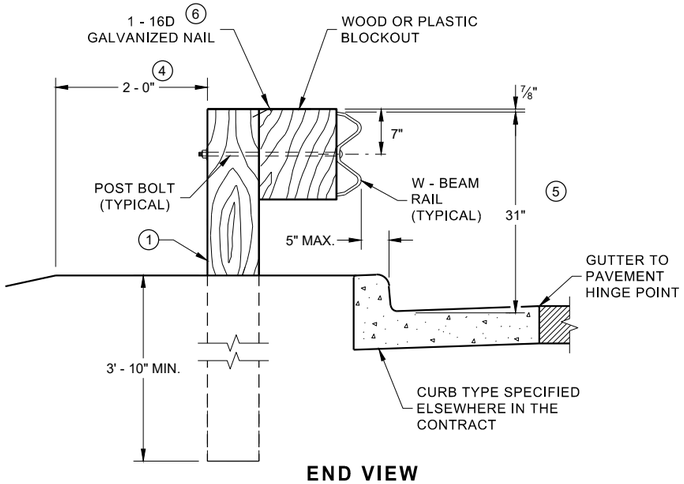
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



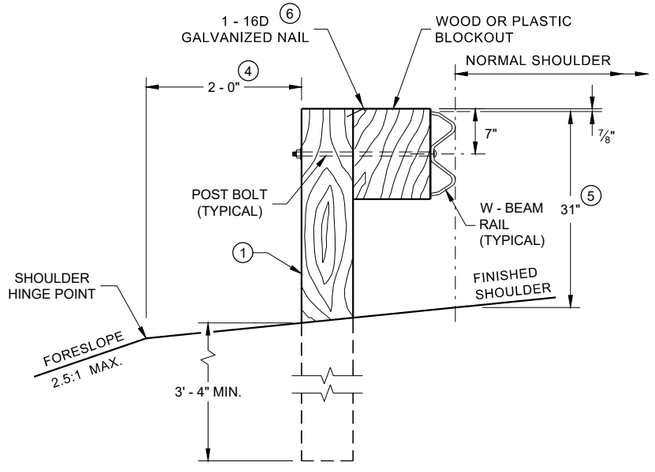
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



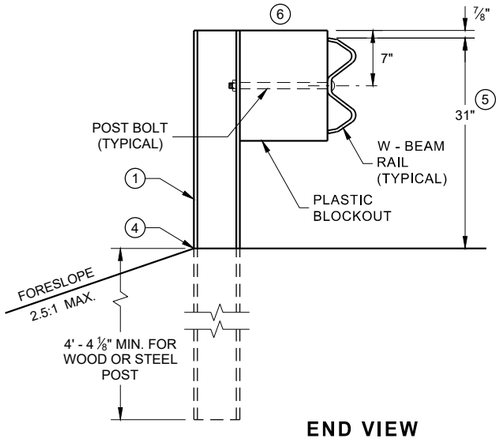
WOOD POST (6" X 8") NOMINAL (1)



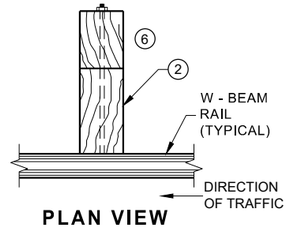
END VIEW
LOCATED ALONG A CURBED ROADWAY



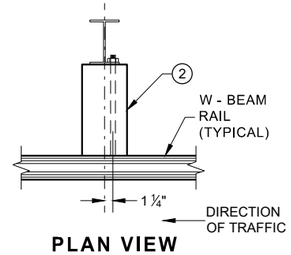
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



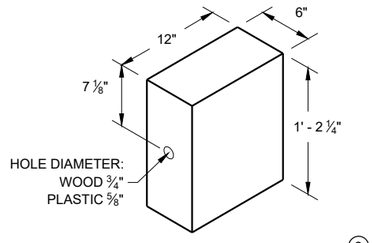
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



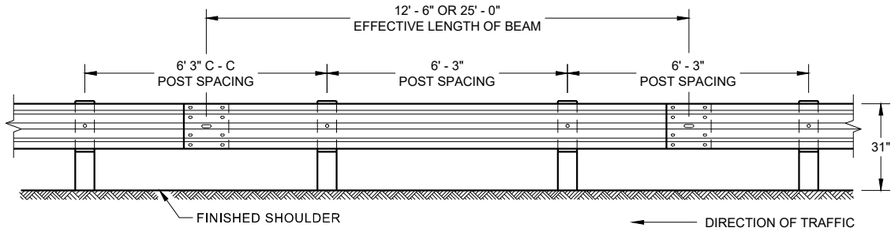
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

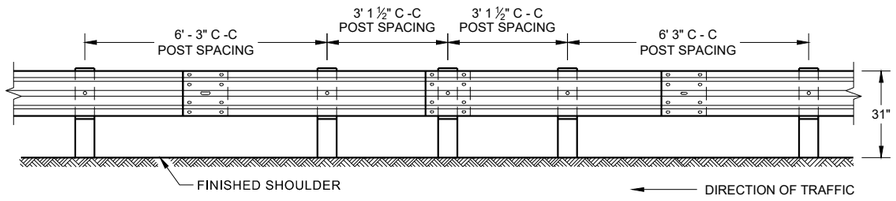
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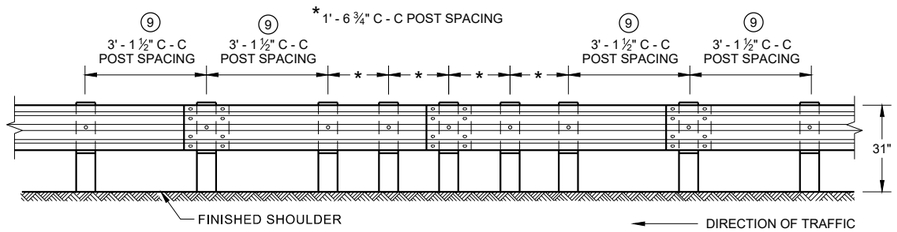
SDD 14B42 - 07a



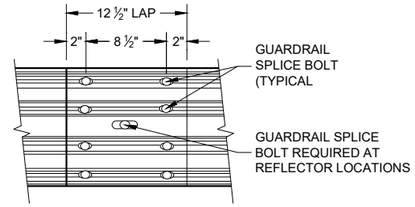
FRONT VIEW
POST SPACING STANDARD INSTALLATION



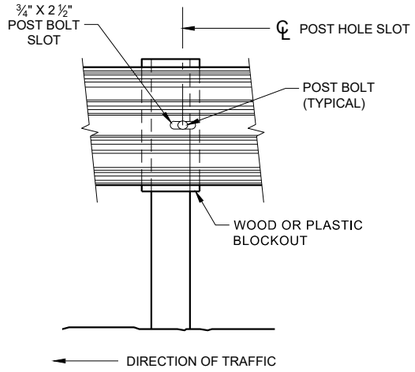
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



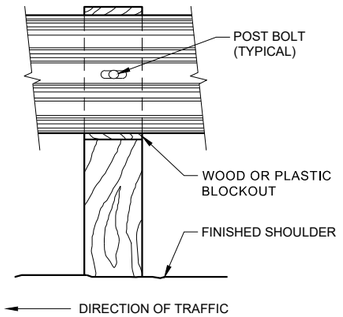
FRONT VIEW
QUARTER POST SPACING (QS)



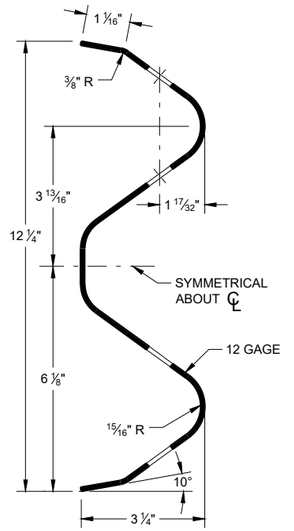
FRONT VIEW
MID-SPAN BEAM SPLICE



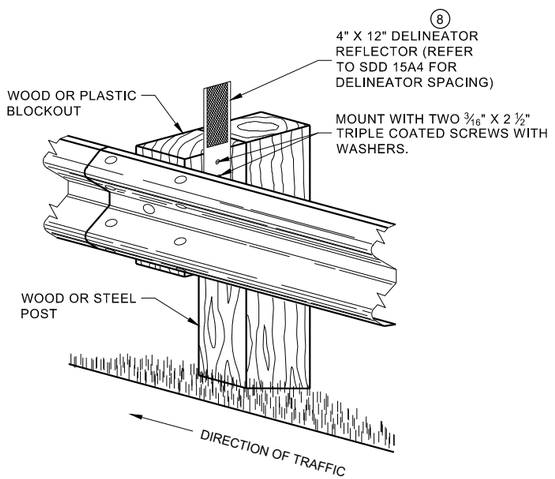
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

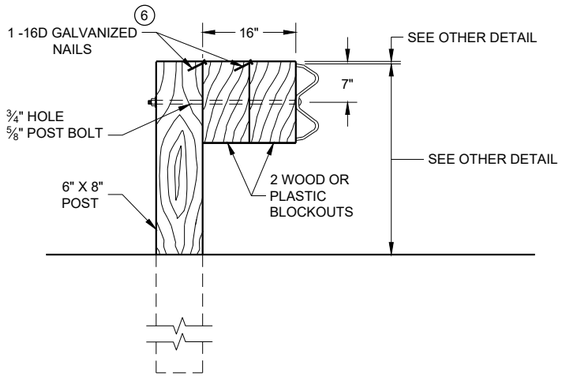
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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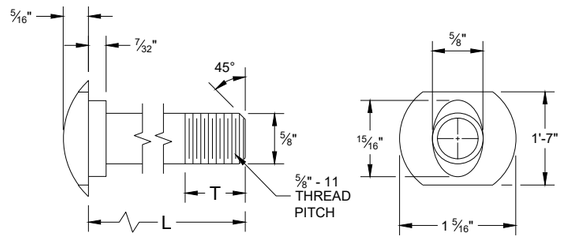


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

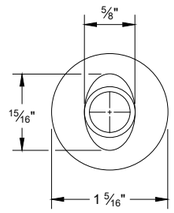
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

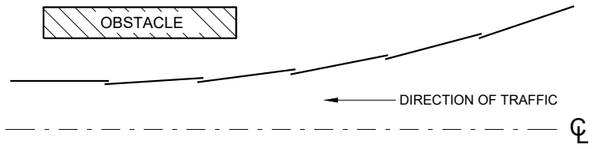


POST BOLT TABLE

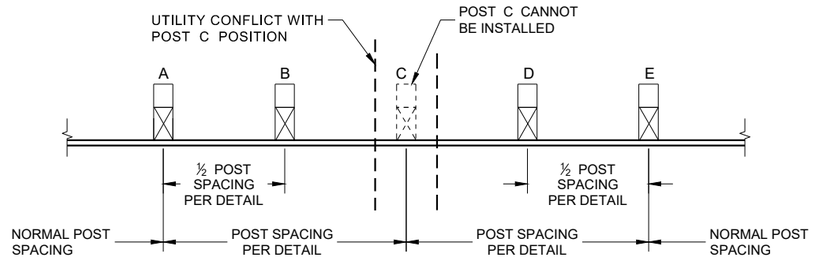
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



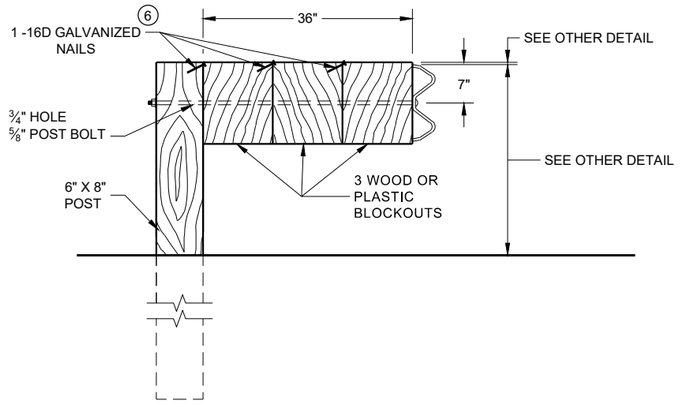
ALTERNATE BOLT HEAD



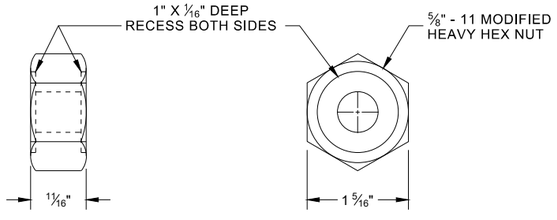
PLAN VIEW
BEAM LAPPING DETAIL



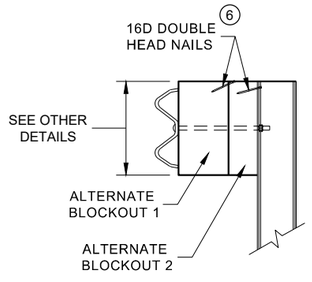
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



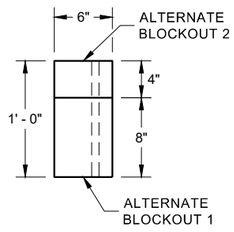
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

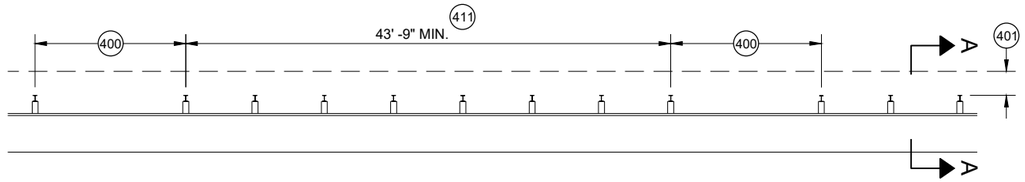
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

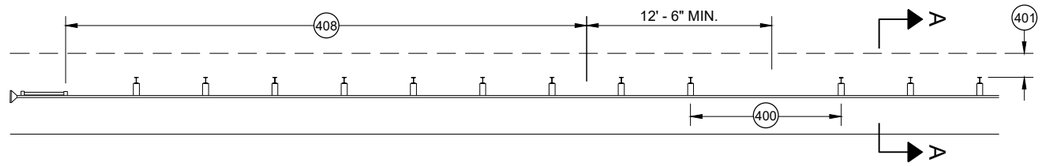
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

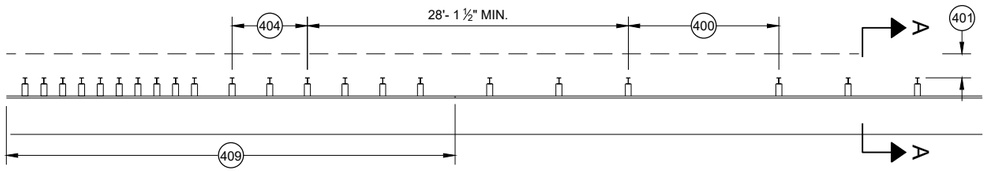
6
SDD 14B42 - 07c



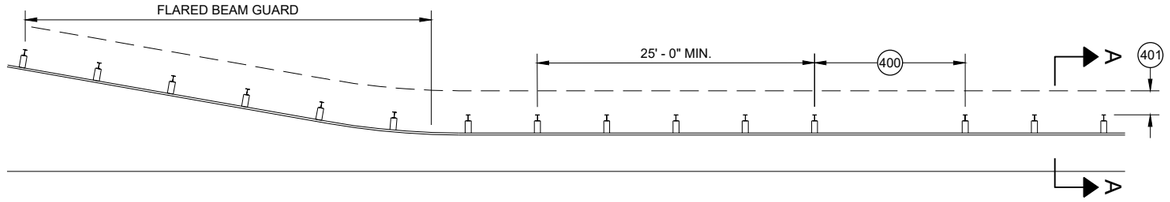
MISSING POST IN MGS GUARDRAIL



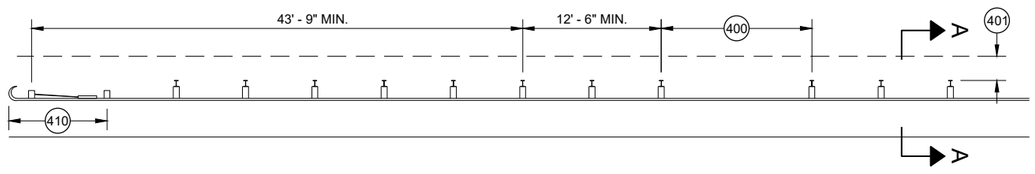
MISSING POST IN MGS GUARDRAIL NEAR EAT



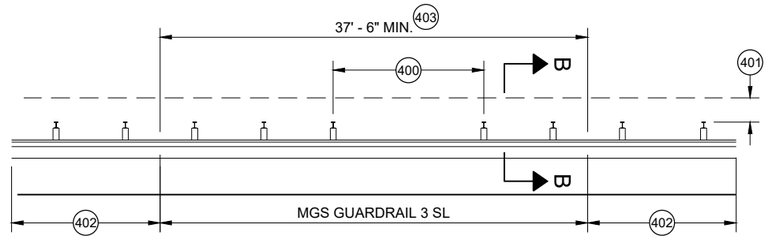
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

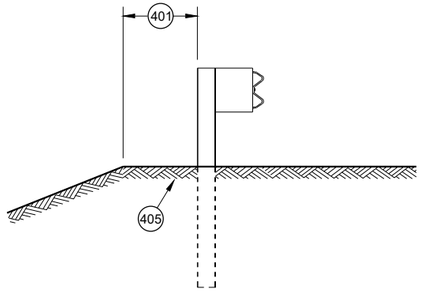


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

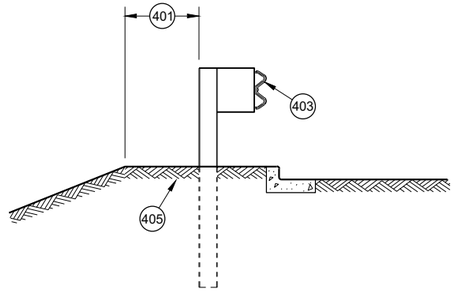


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

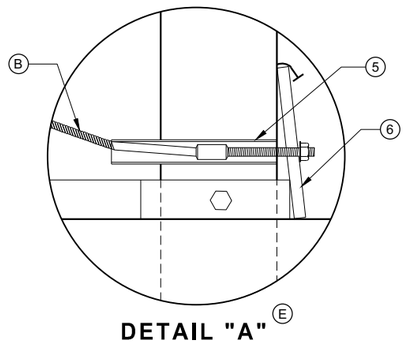
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

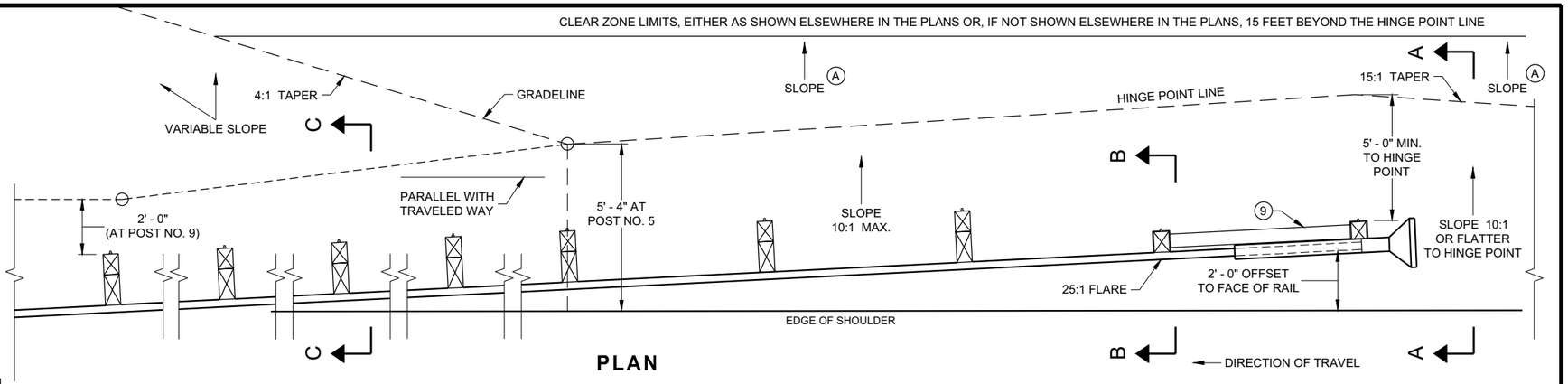
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

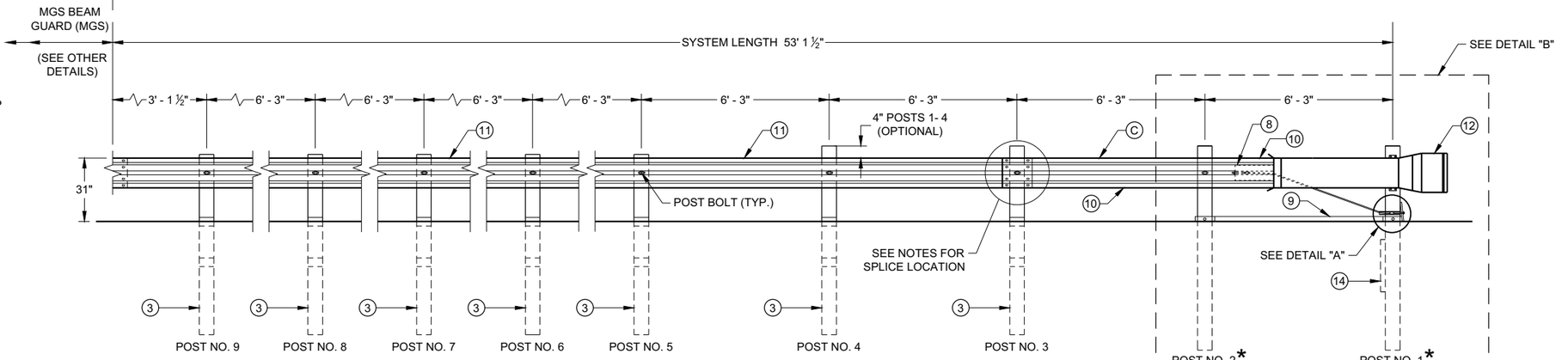
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



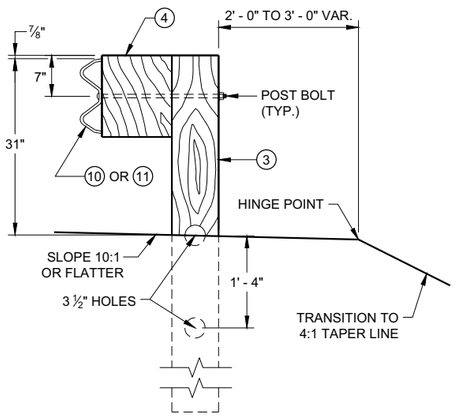
DETAIL "A" (E)



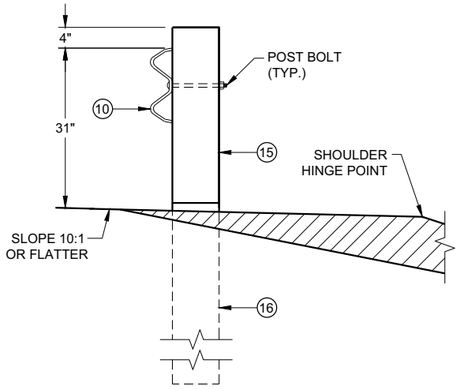
PLAN



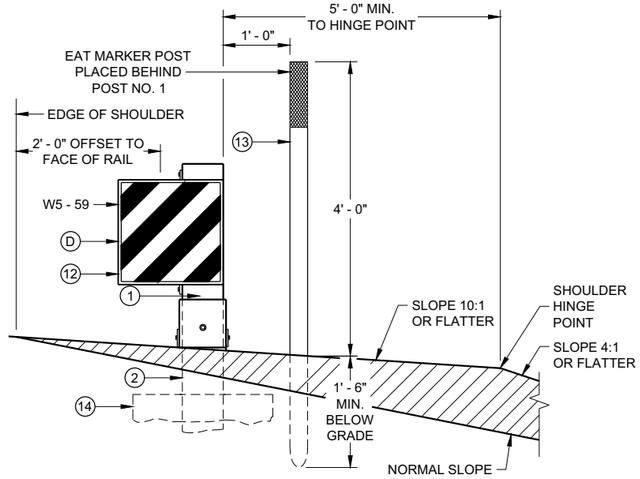
ELEVATION



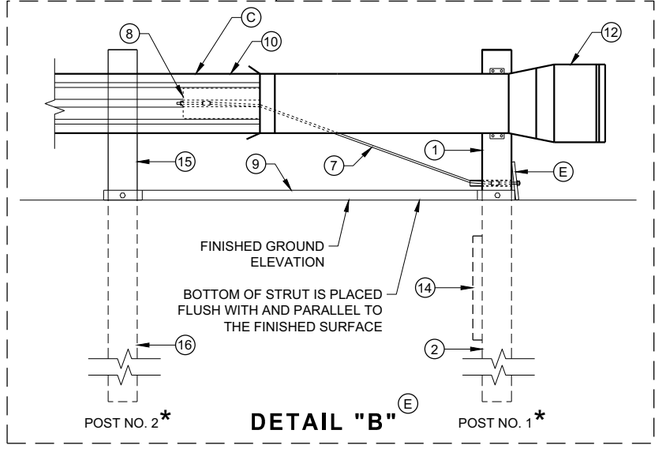
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



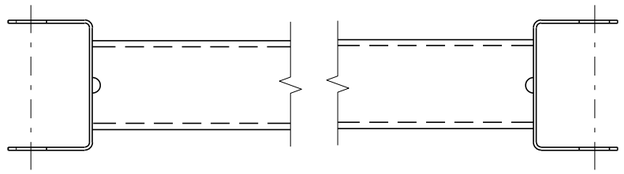
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

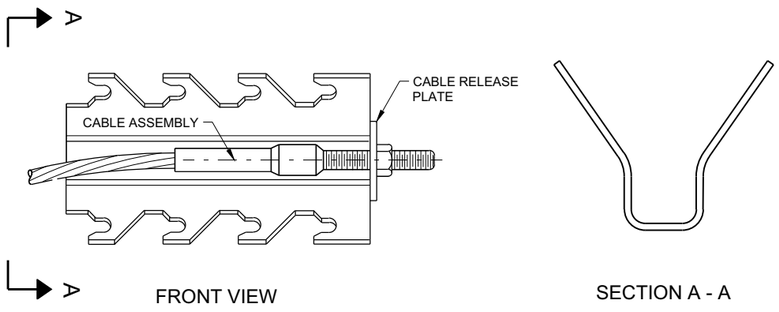
SDD 14B44 - 04a



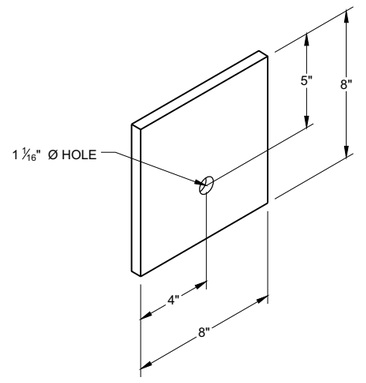
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

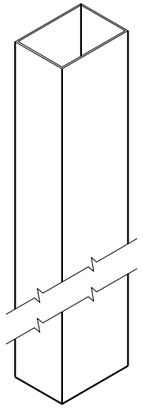
6

SDD 14B44 - 04b

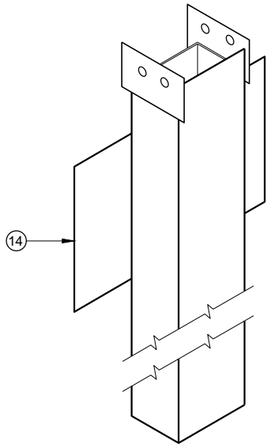
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

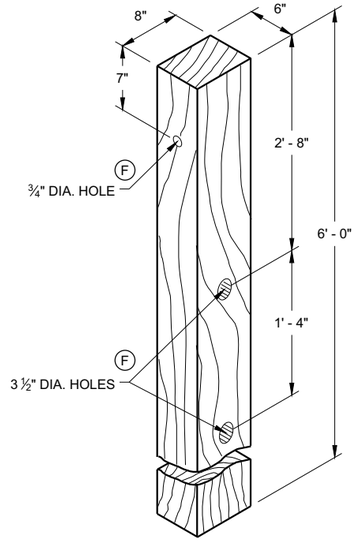
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



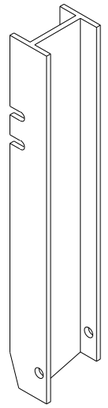
UPPER POST NO. 1 (1) (E)



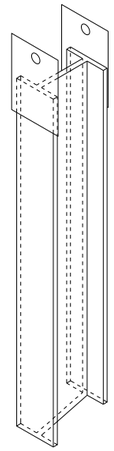
LOWER POST NO. 1 (2) (E)



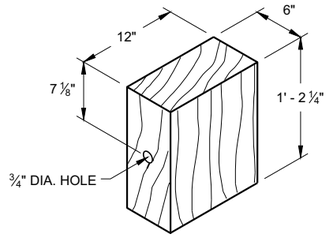
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



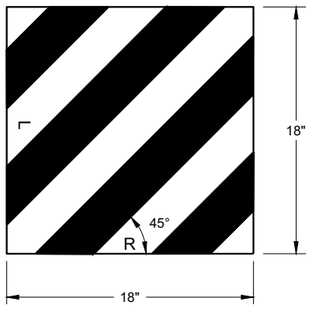
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

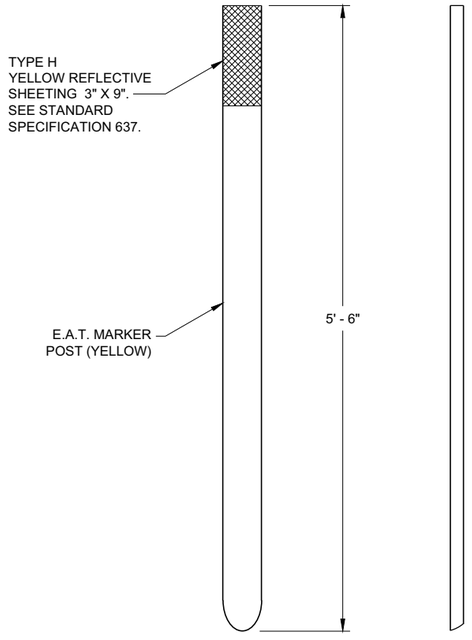


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



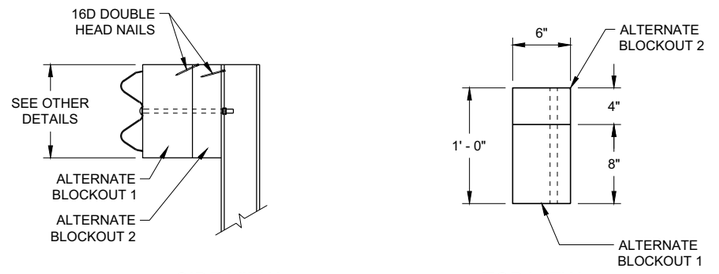
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

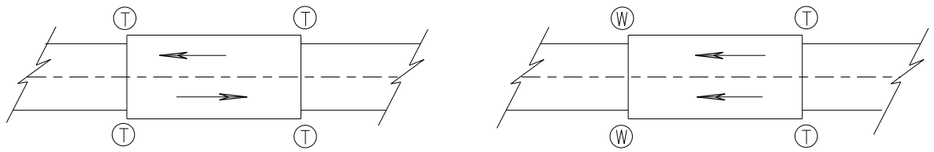
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c
SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

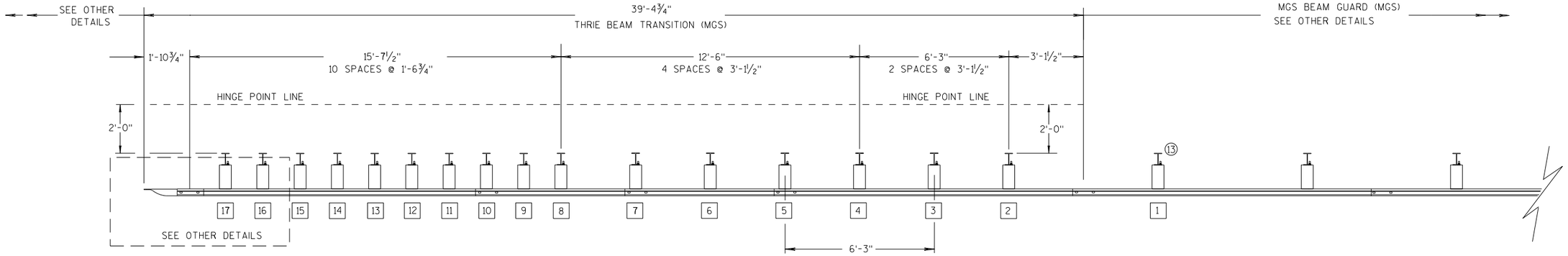
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

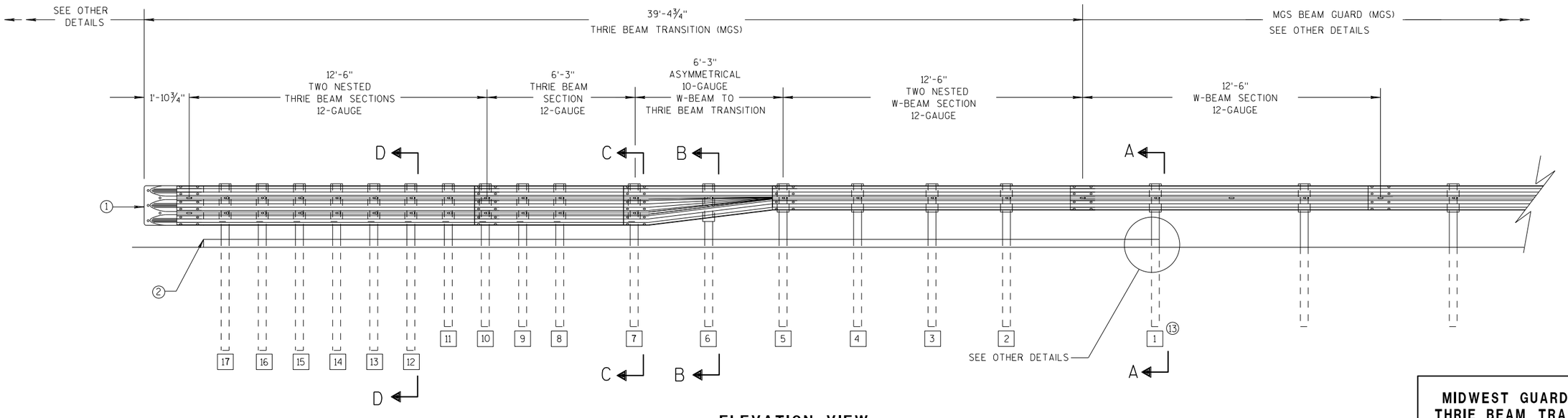
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

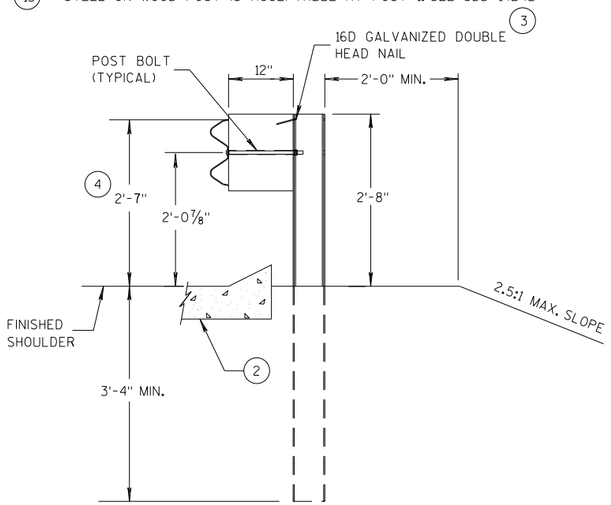
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

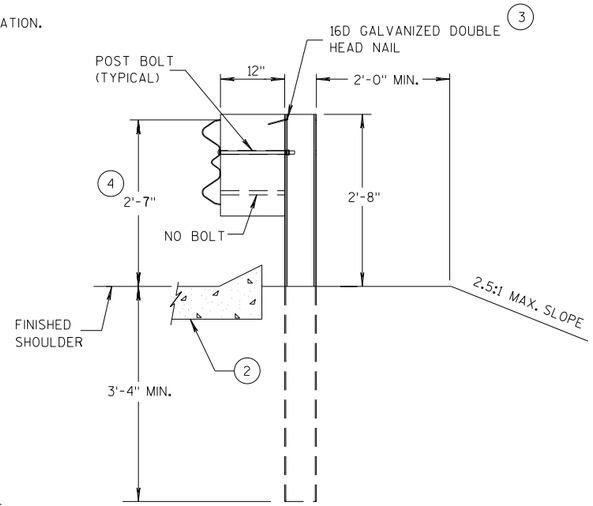
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



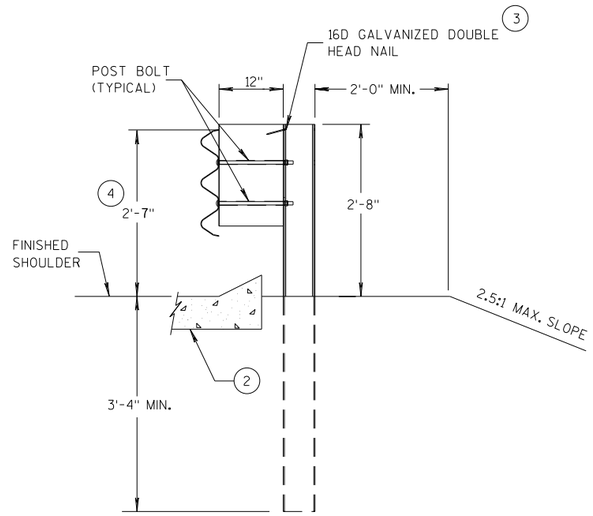
SECTION A-A (13)

POSTS 1-5



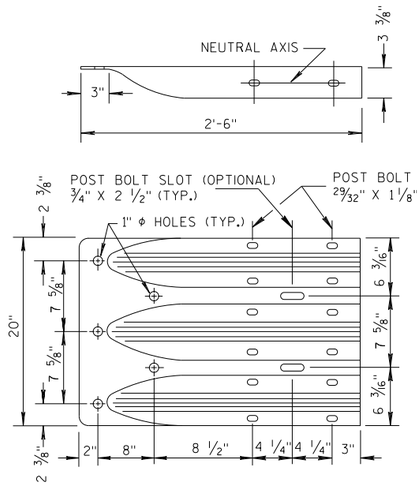
SECTION B-B

POST 6

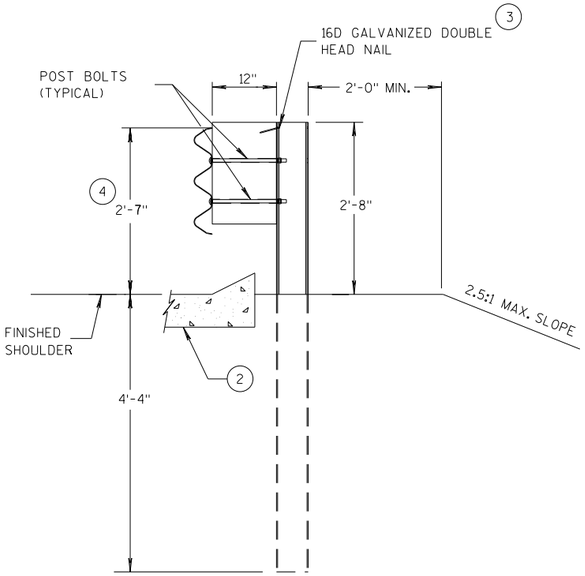


SECTION C-C

POSTS 7-11

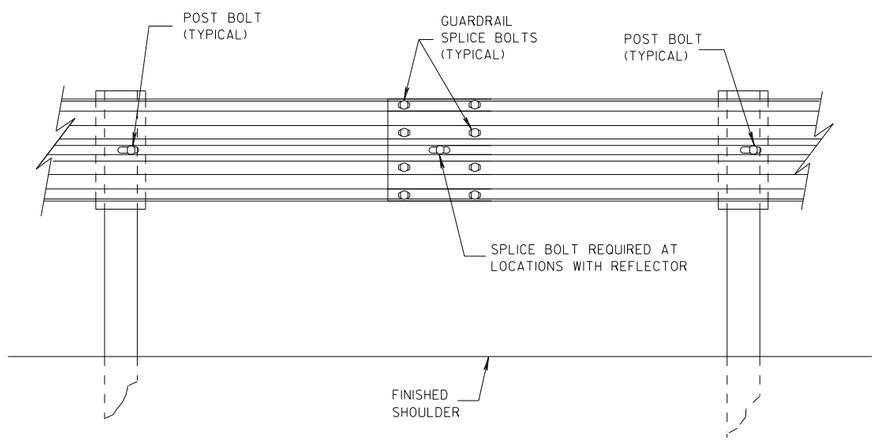


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

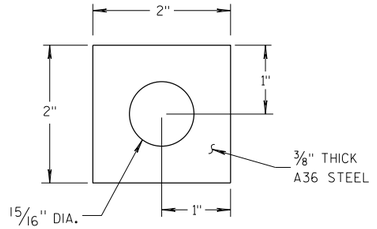
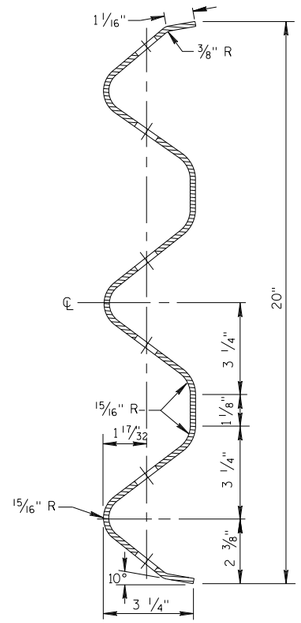


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

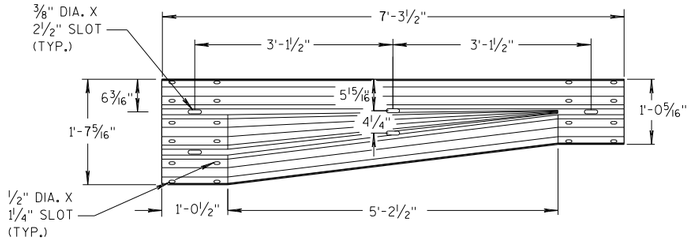
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 188

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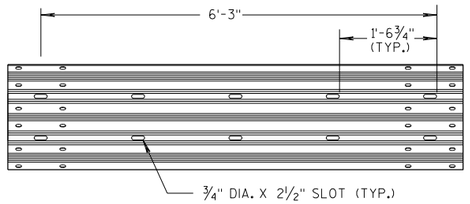
S.D.D. 14 B 45-5b

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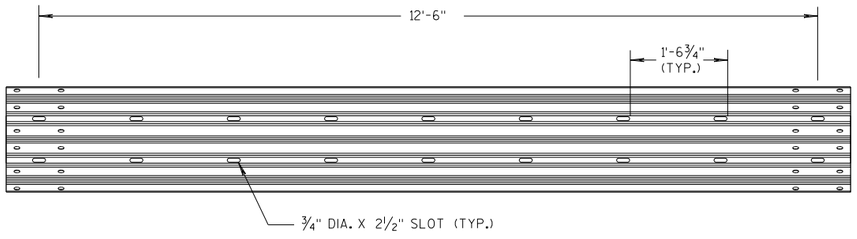
S.D.D. 14 B 45-5b



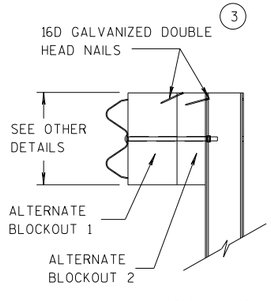
W-BEAM TO THRIE BEAM TRANSITION SECTION



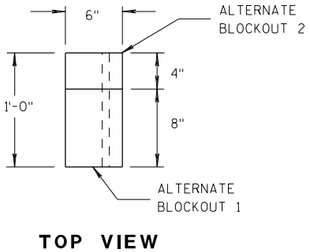
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

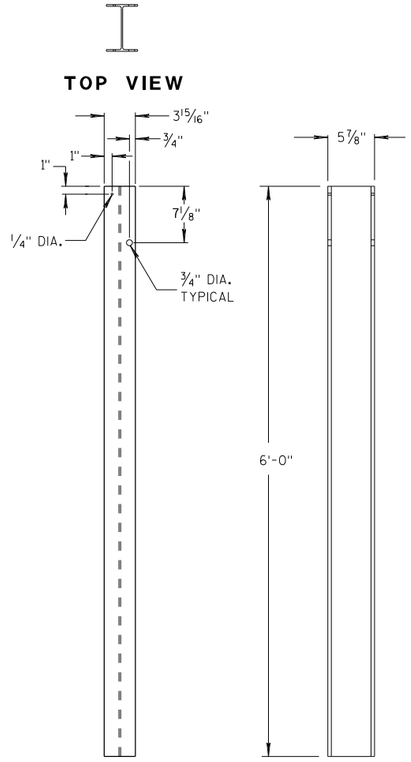


SIDE VIEW



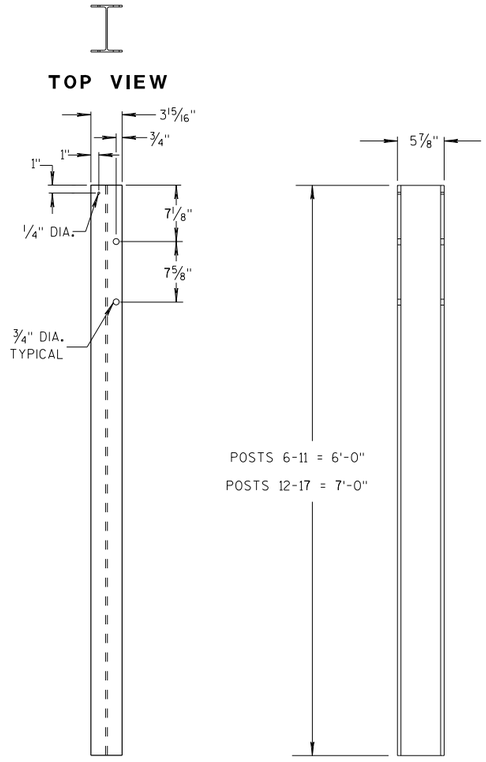
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



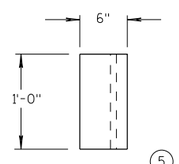
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

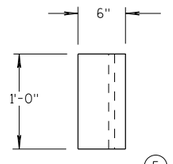


FRONT VIEW SIDE VIEW

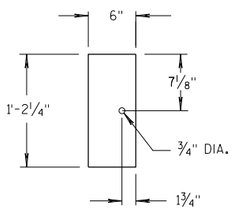
STEEL POSTS 6-17



TOP VIEW (5)

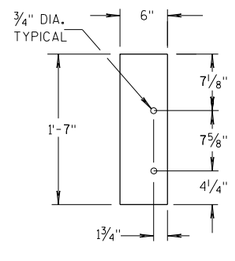


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

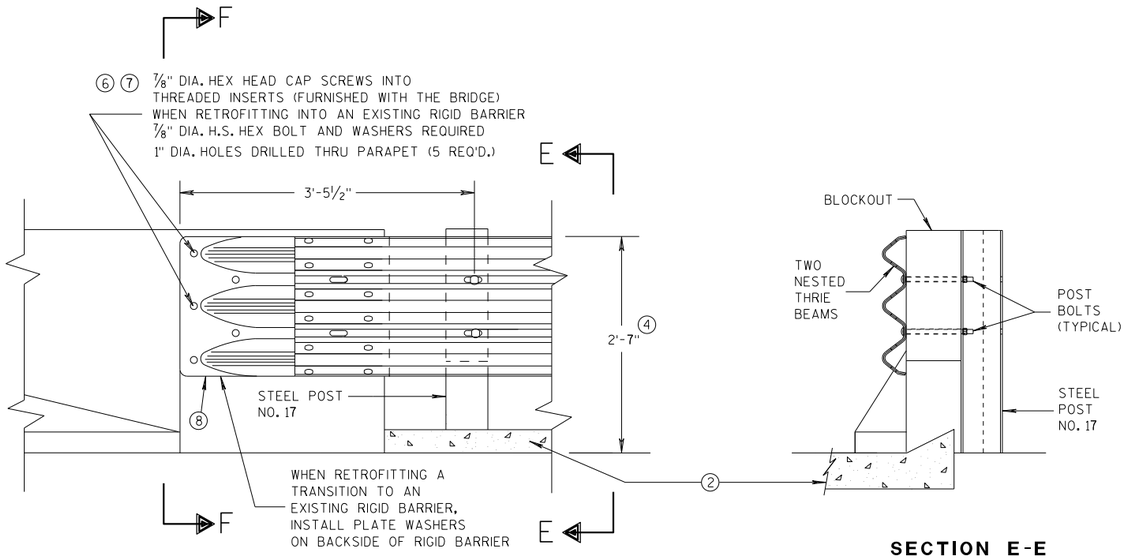
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

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S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

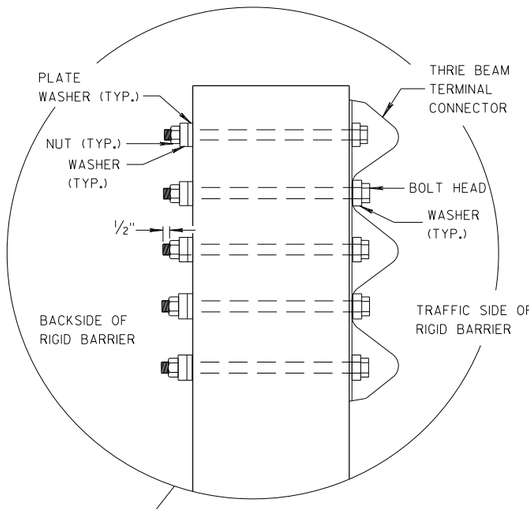
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

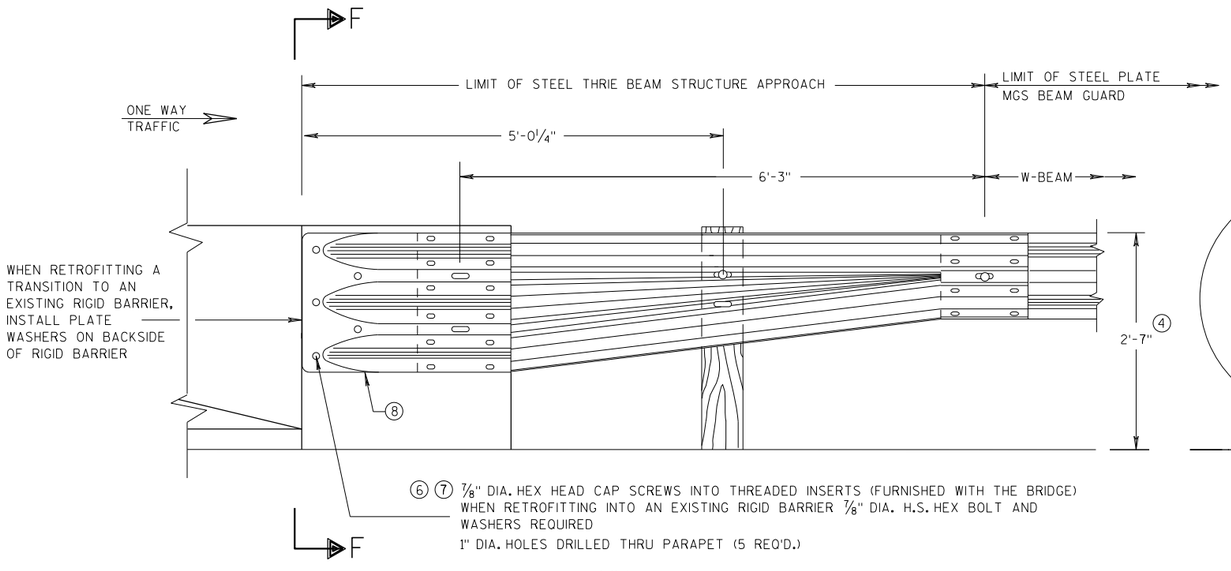
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

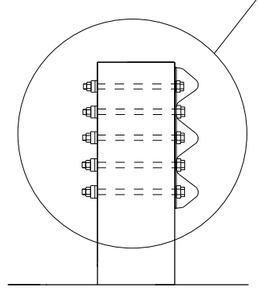
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

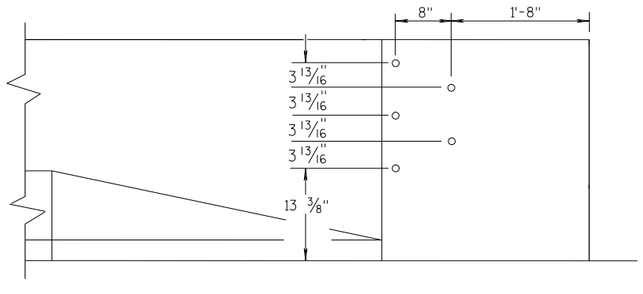




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS
NT
FHWA

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S.D.D. 14 B 45-5d

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S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

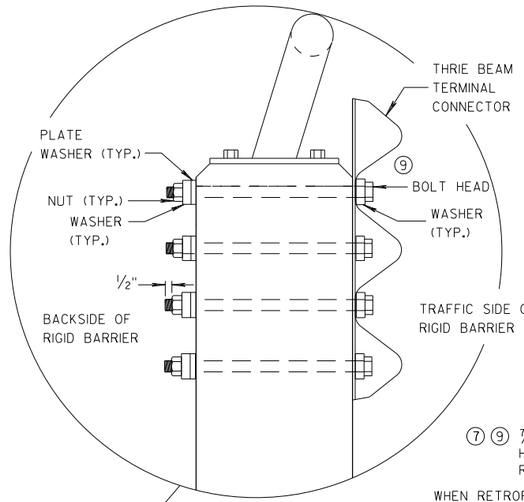
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

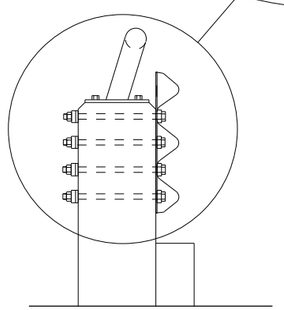
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

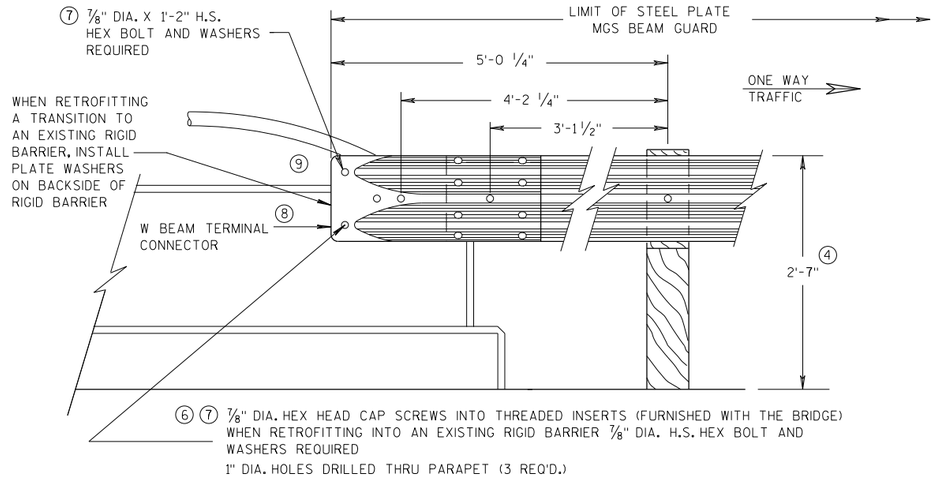
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





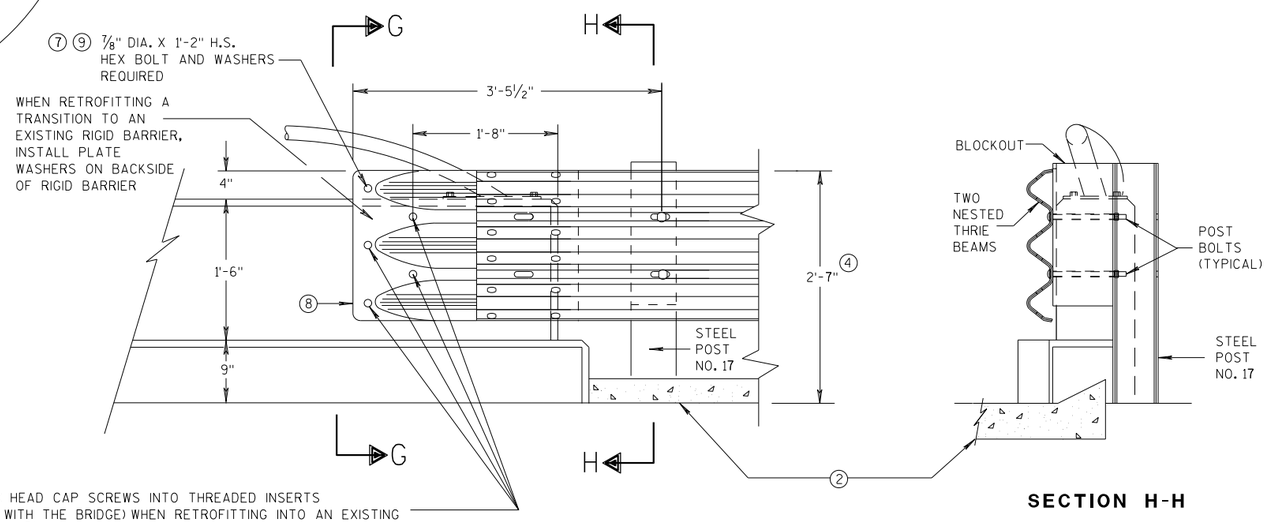
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

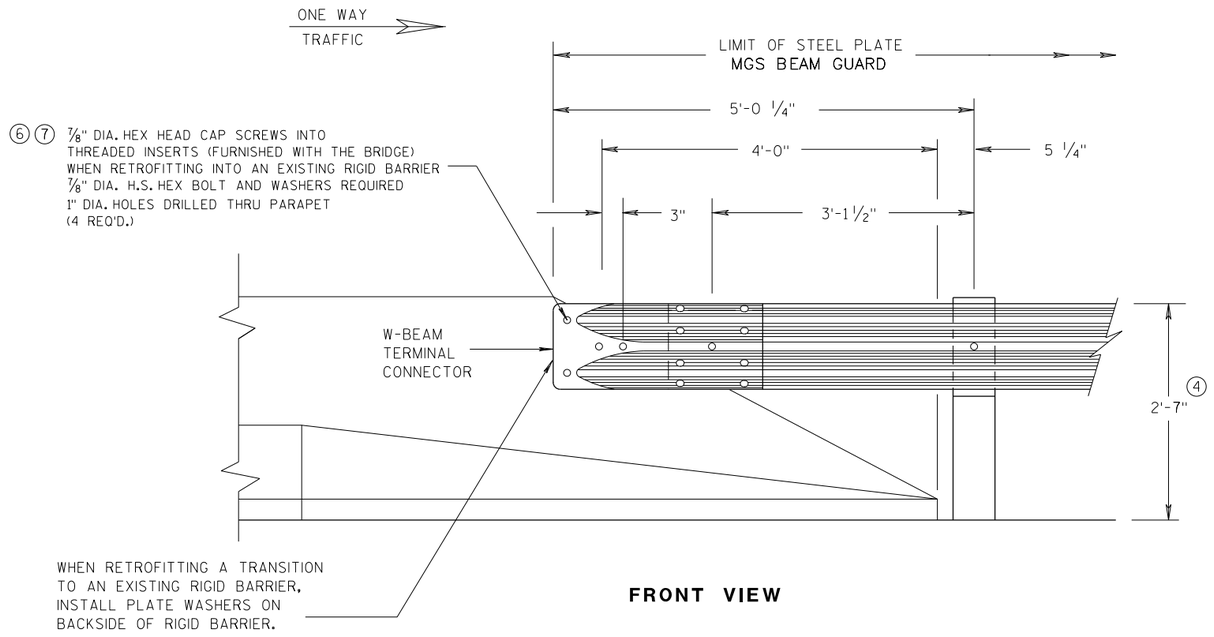
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS NT

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S.D.D. 14 B 45-5e

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S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

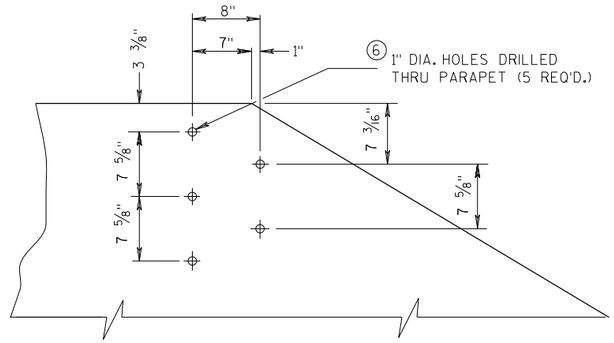
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

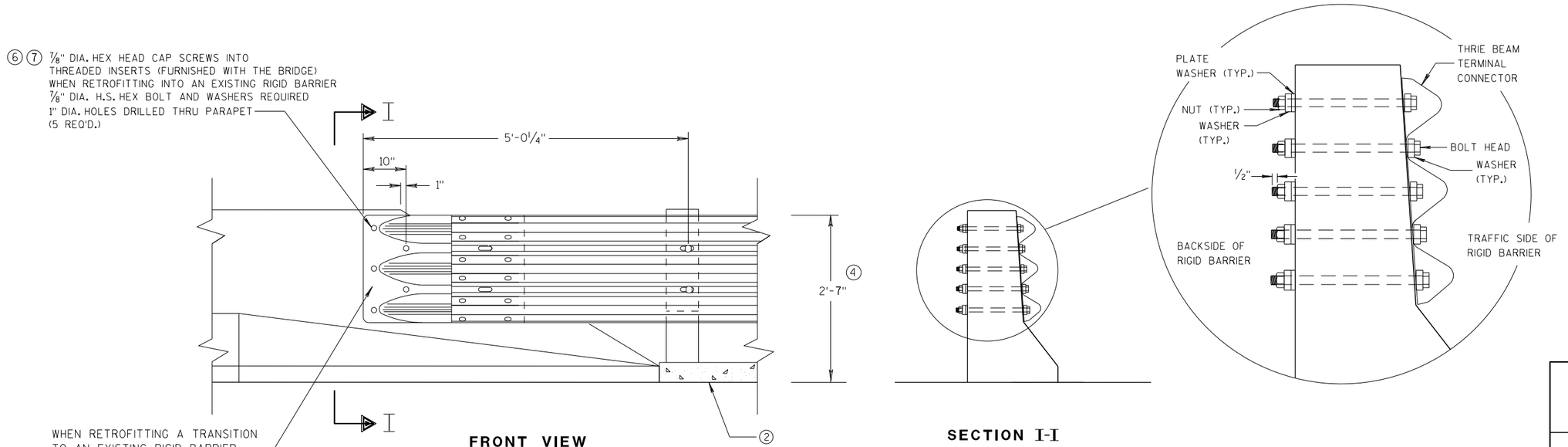
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW

SECTION I-I

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

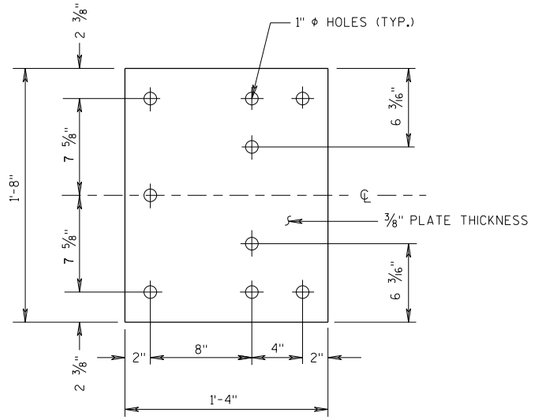
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/S/ Rodney Taylor — ROADWAY STANDARDS I[illegible]ENT UNIT SUPERVI
FHWA

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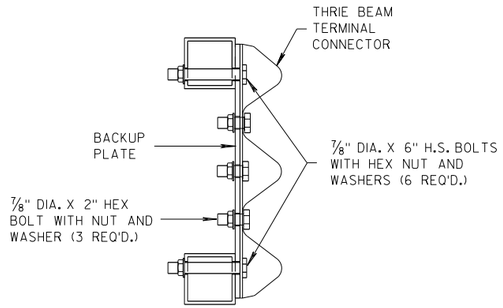
S.D.D. 14 B 45-5f

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S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

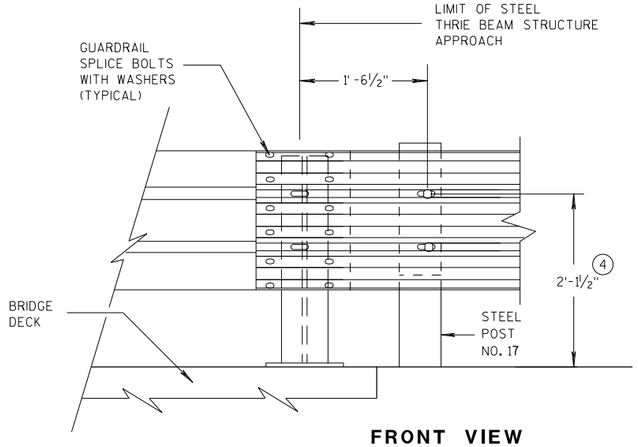


SECTION J-J

GENERAL NOTES

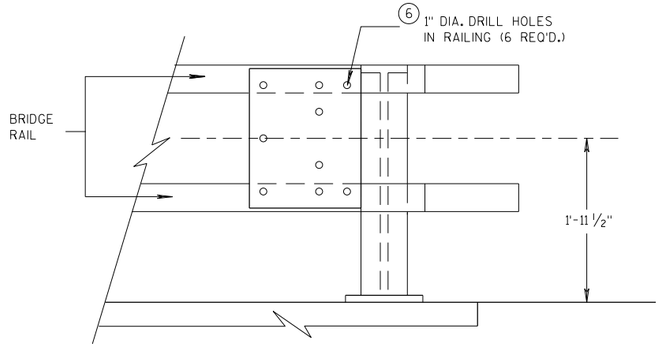
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

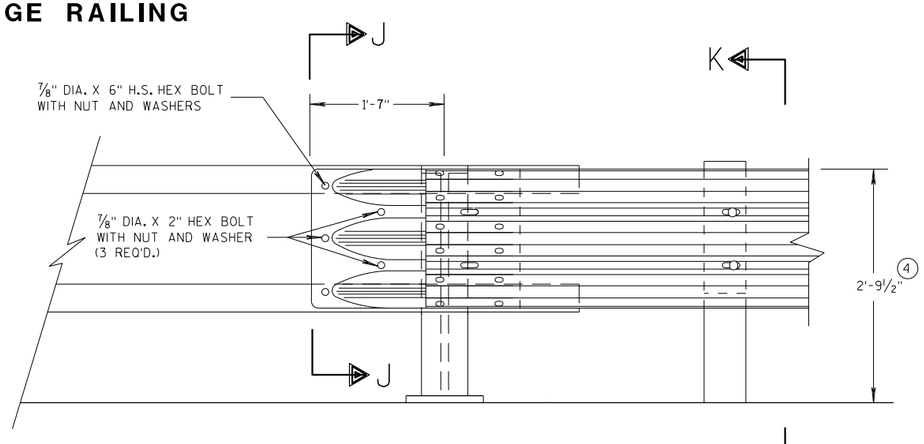


FRONT VIEW

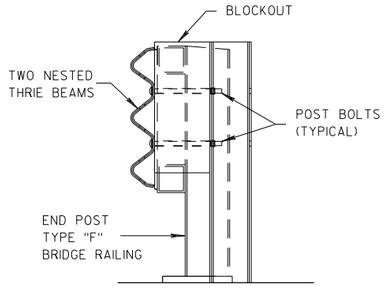
THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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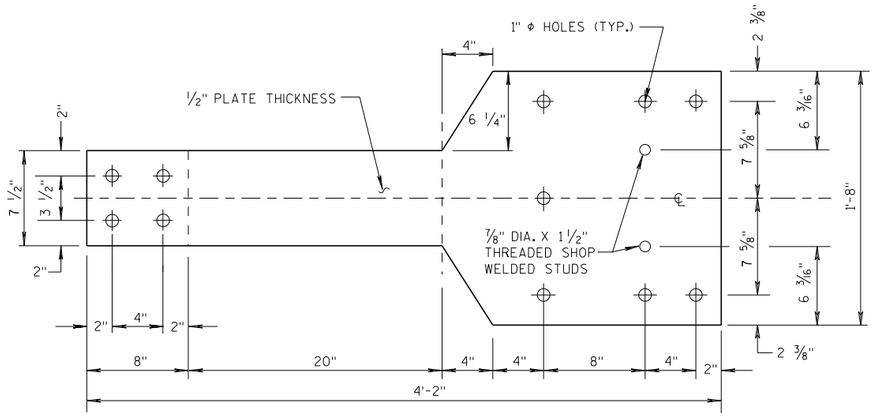
S.D.D. 14 B 45-5g

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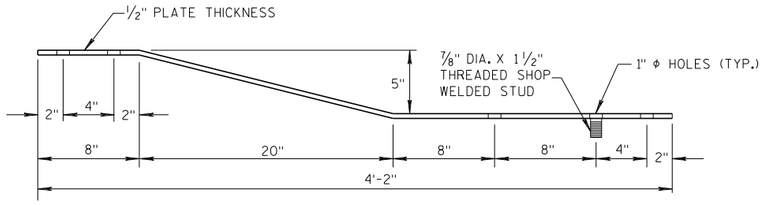
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

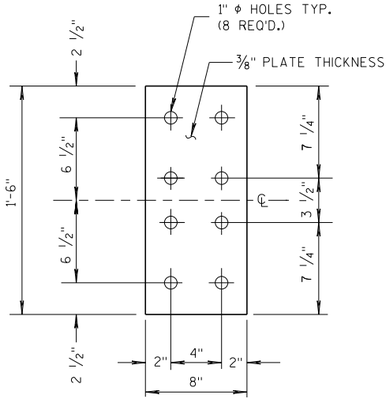


FRONT VIEW

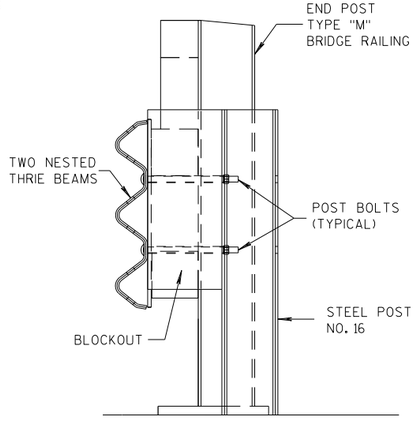


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

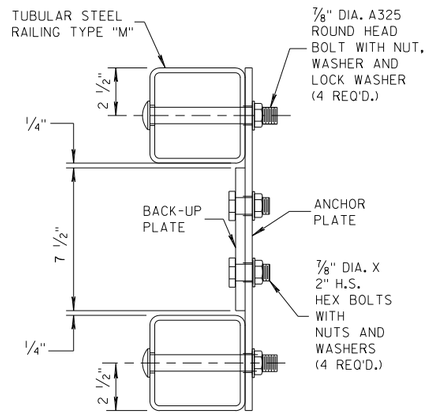


FRONT VIEW

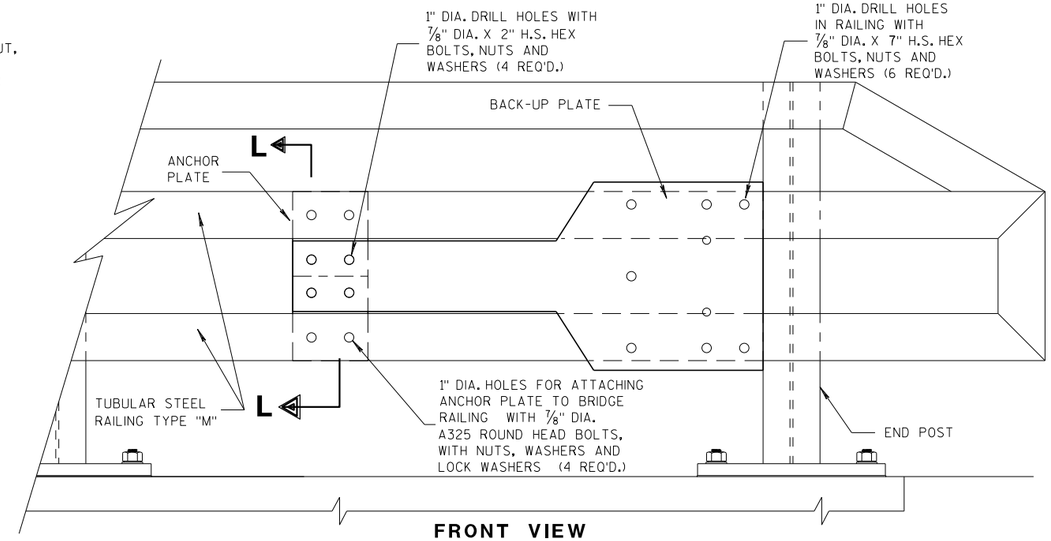


SECTION M-M

ANCHOR PLATE DETAIL, TYPE "M"

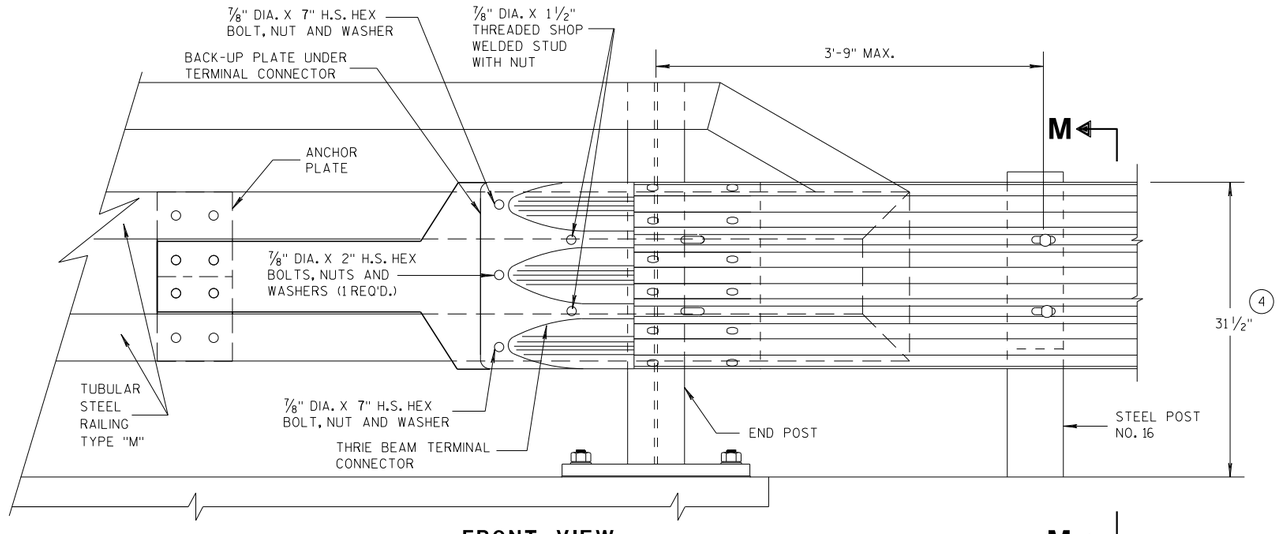


SECTION L-L

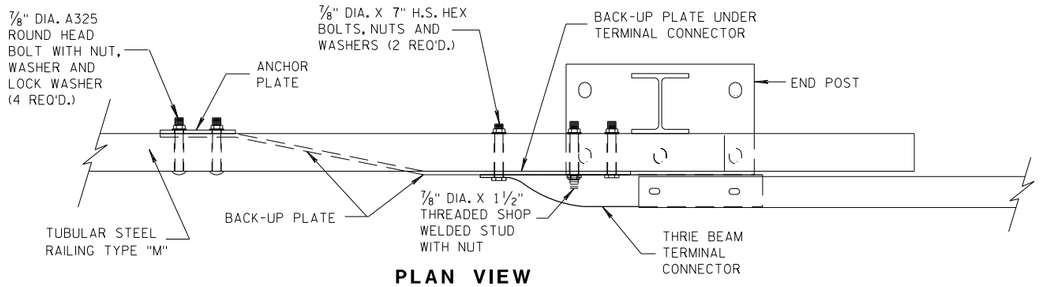


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

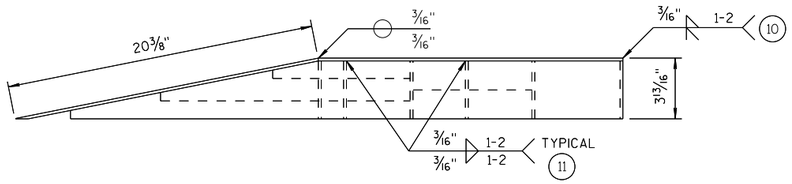
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

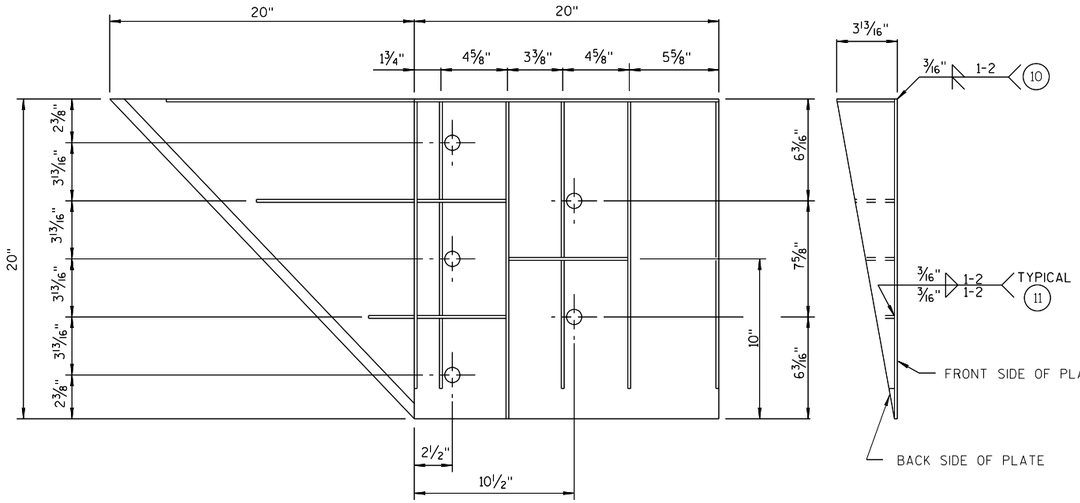
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WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

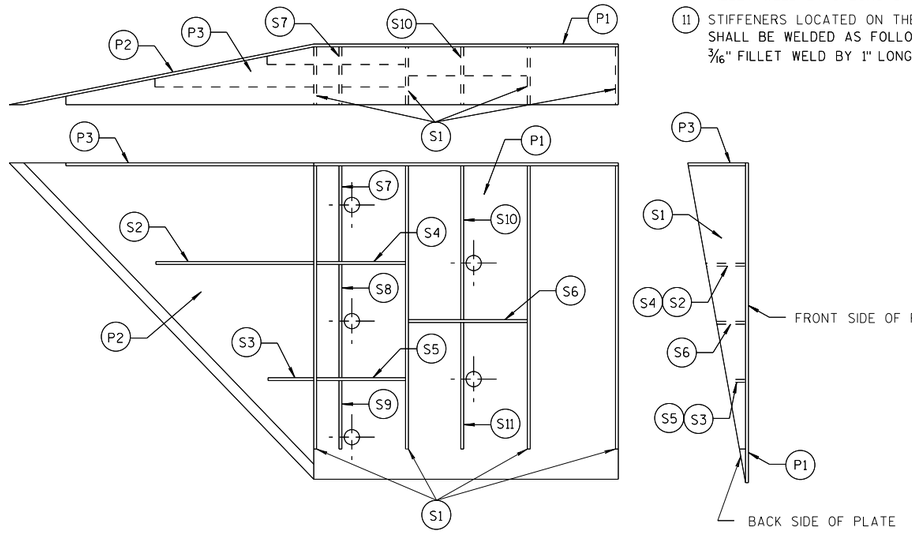


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

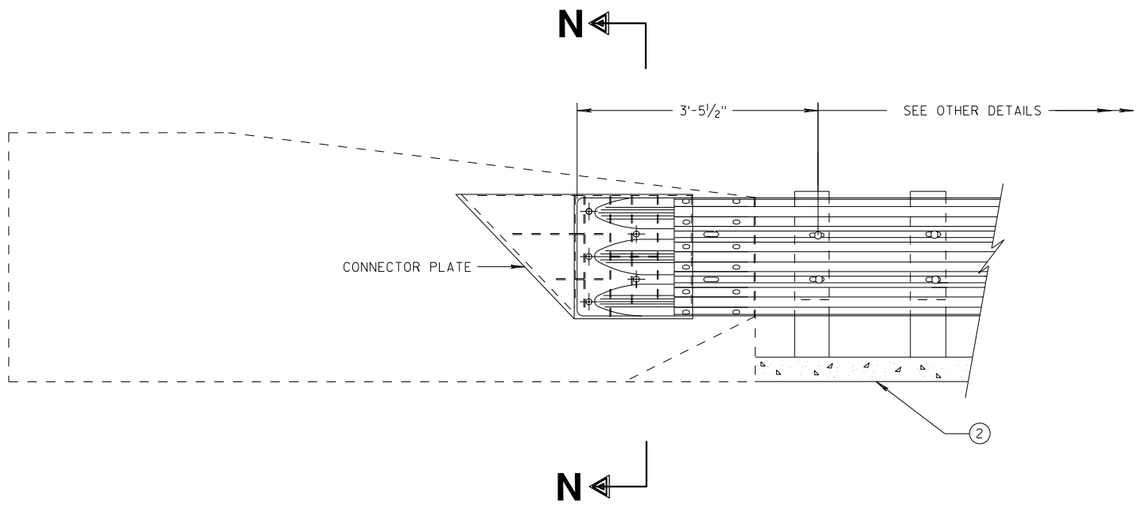
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

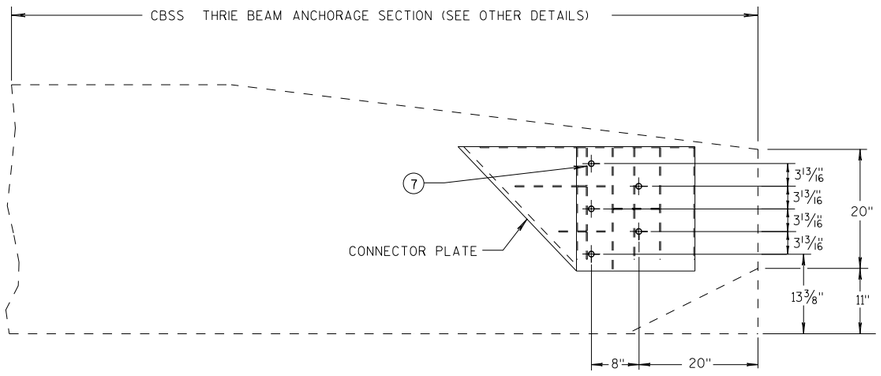
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UNIT SUPERVI

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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



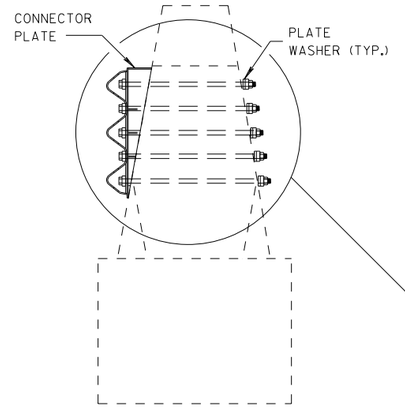
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

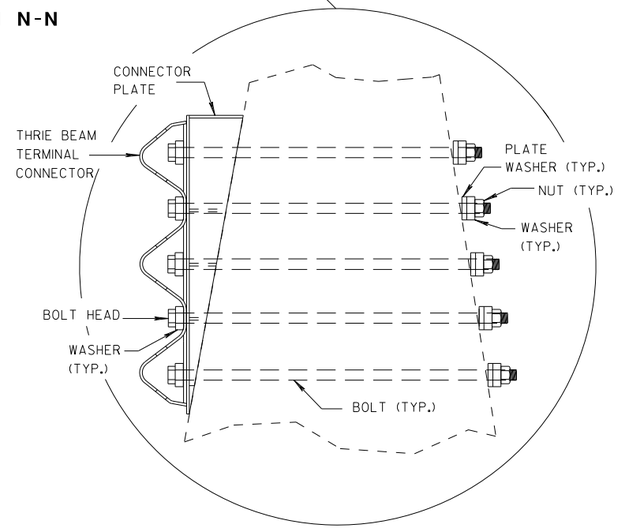
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

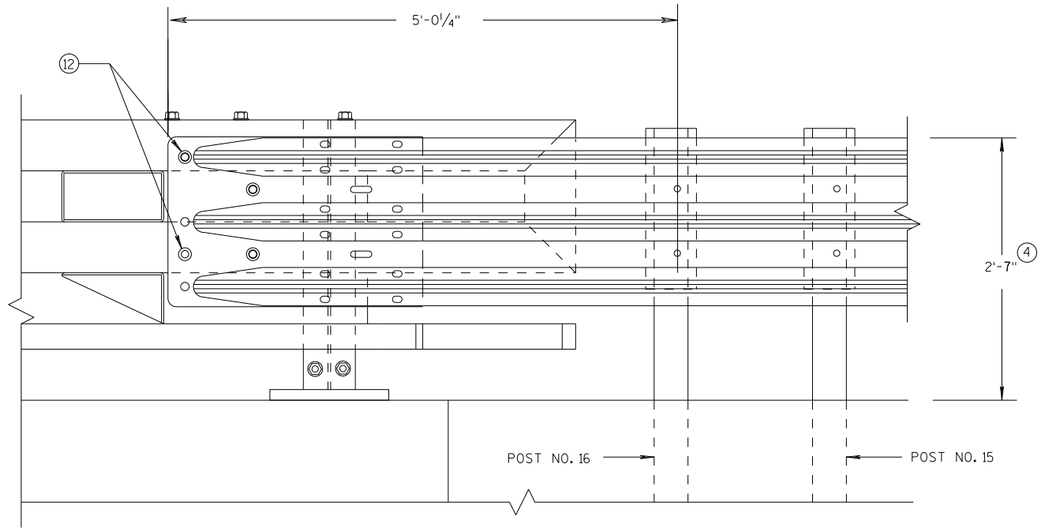
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

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ROADWAY STANDARDS DI[illegible]NT
UNIT SUPERVIS

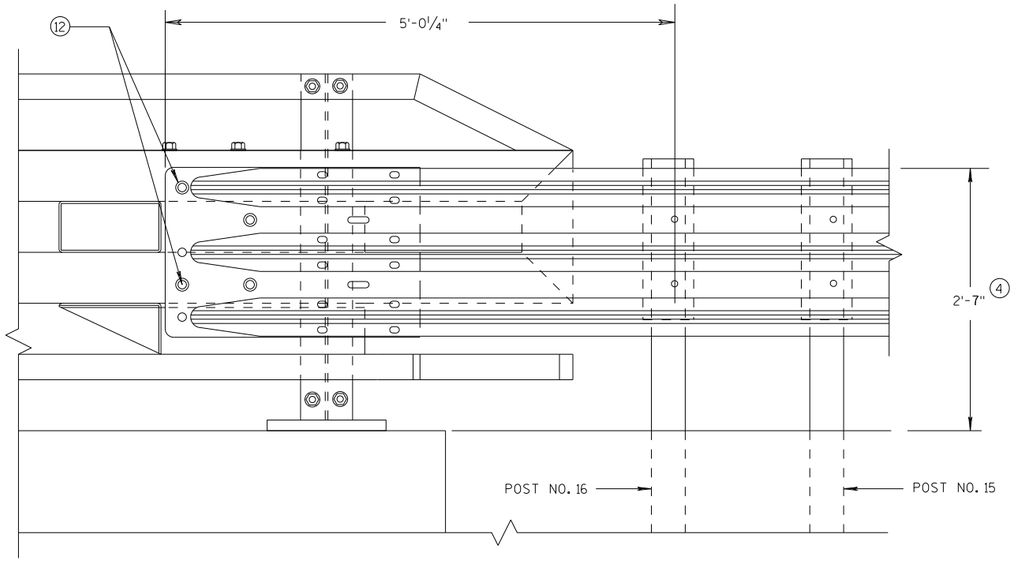
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S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

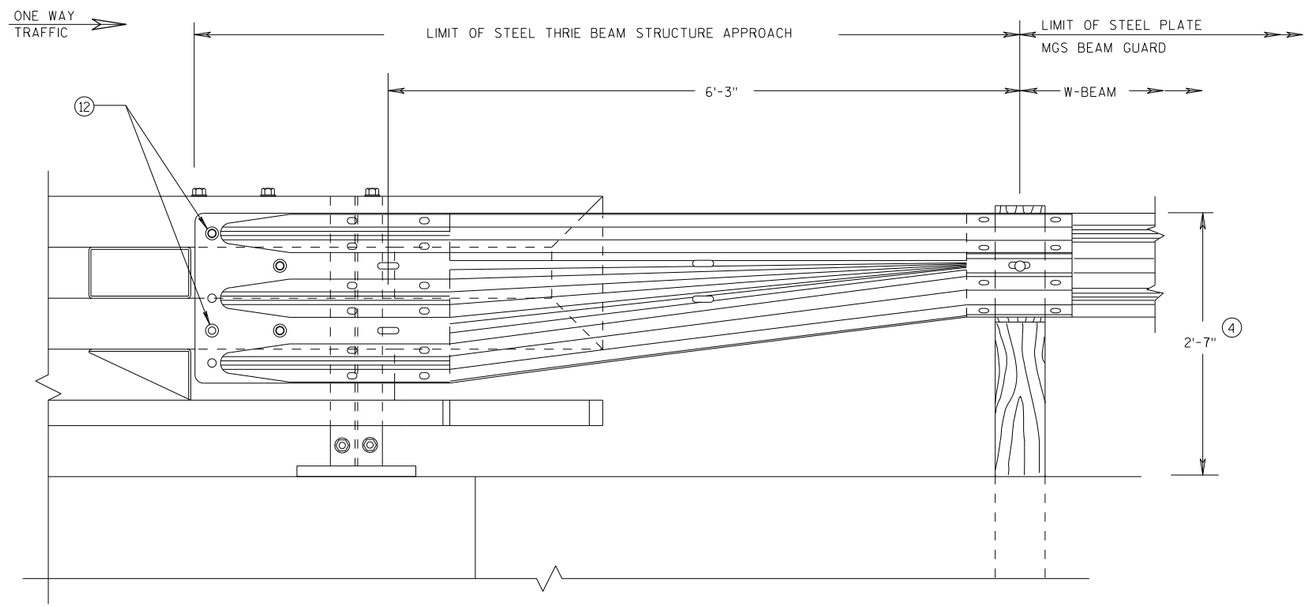
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DATE
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FRONT VIEW

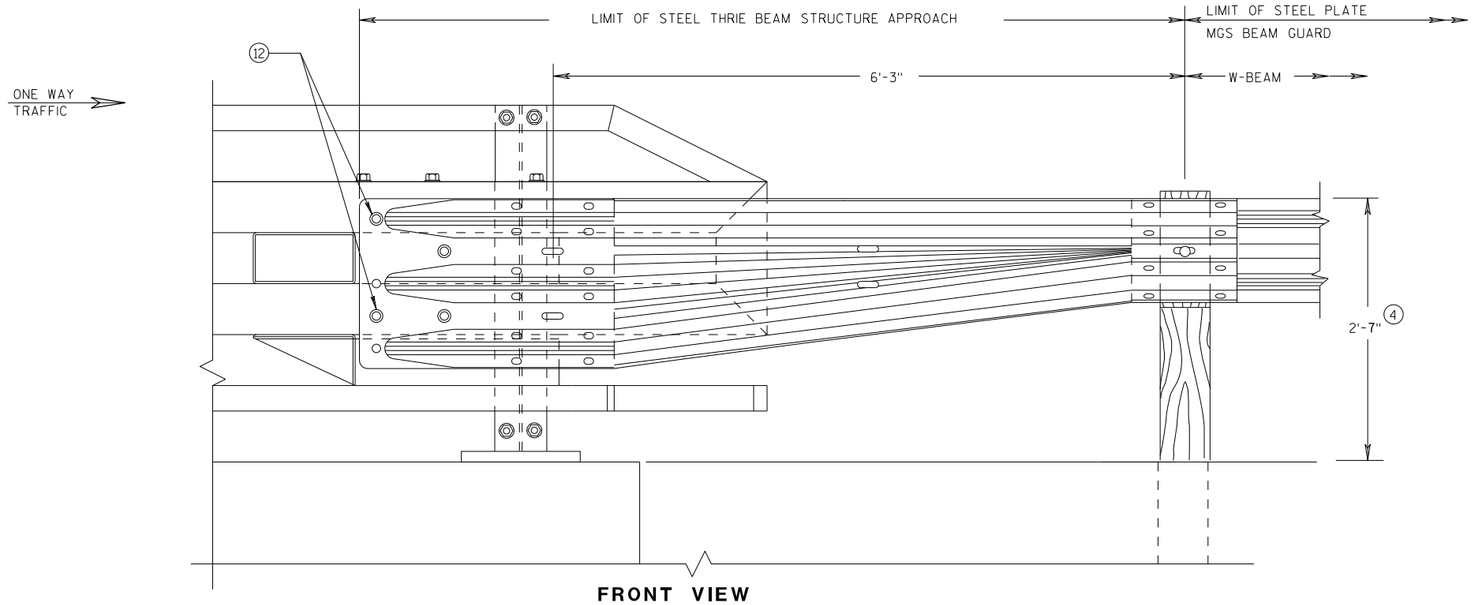
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

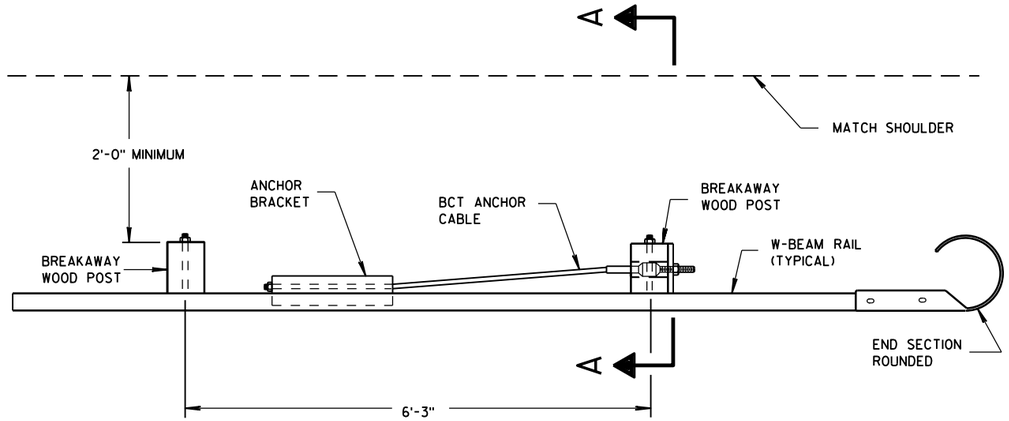
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7/2018 DATE
/S/ Rodney Taylor
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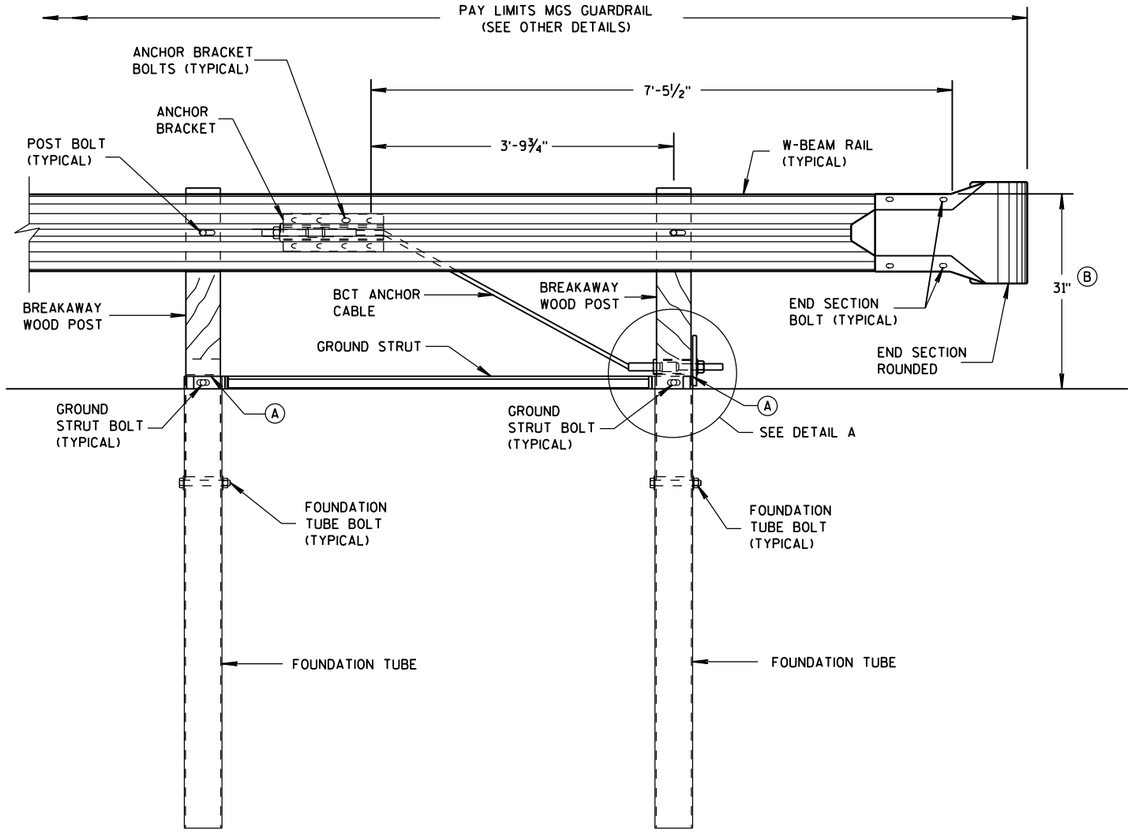
S.D.D. 14 B 45-5L

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S.D.D. 14 B 45-5L

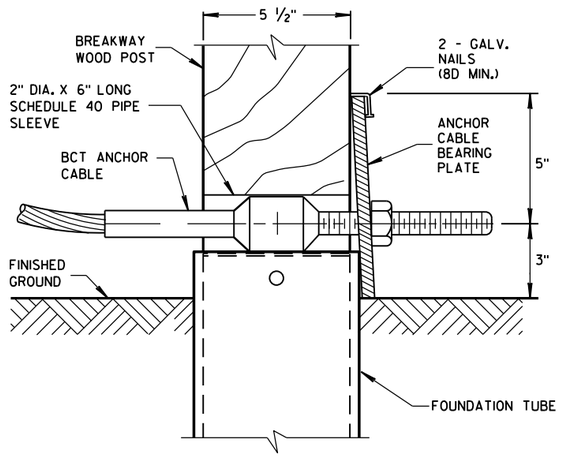


PLAN VIEW



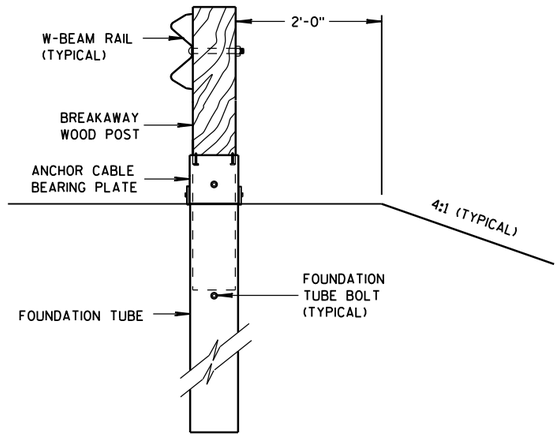
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

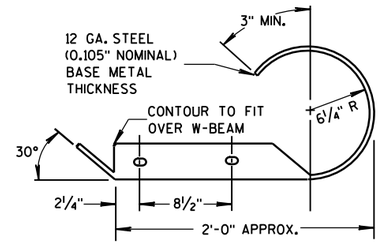
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

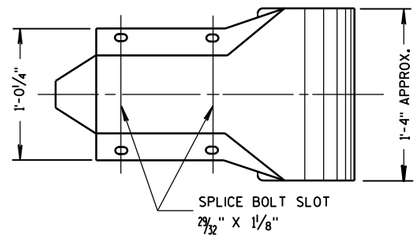
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



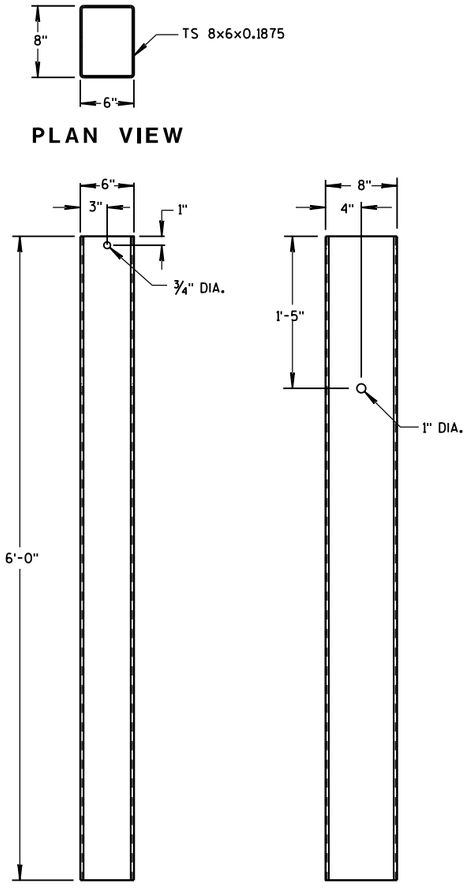
FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 47-2a

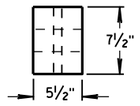


PLAN VIEW

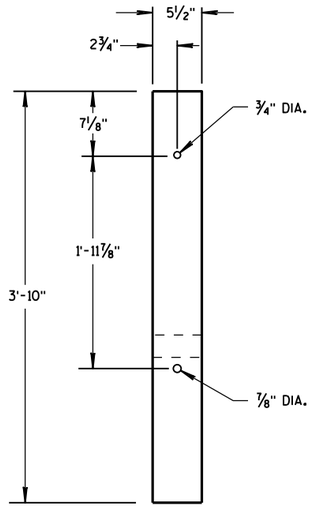
FRONT VIEW

SIDE VIEW

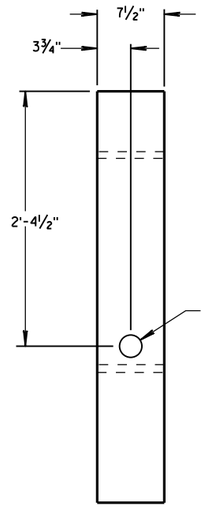
FOUNDATION TUBE



PLAN VIEW



FRONT VIEW



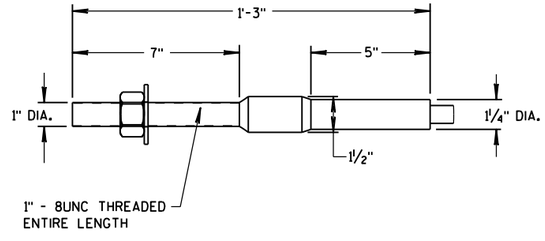
SIDE VIEW

BREAKAWAY WOOD POST

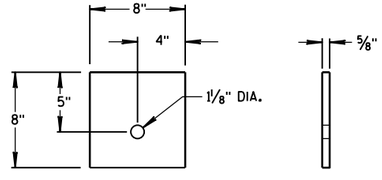
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

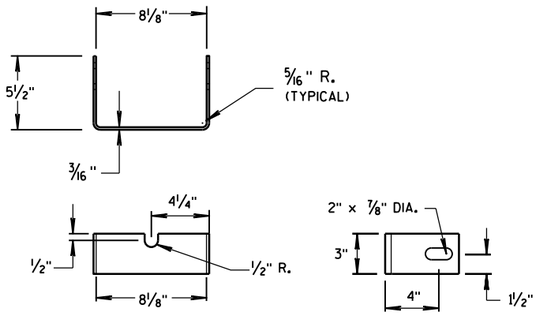
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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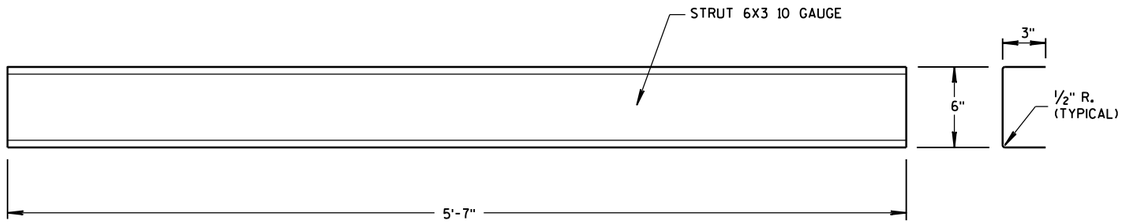
S.D.D. 14 B 47-2b

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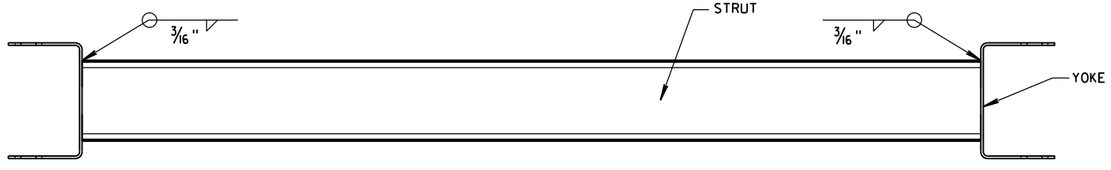
S.D.D. 14 B 47-2b



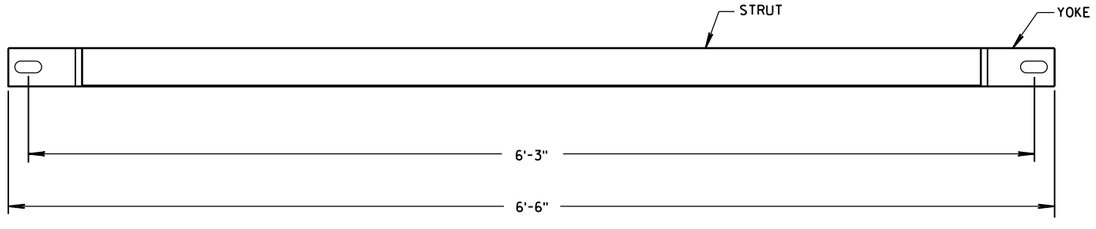
YOKE DETAIL



STRUT DETAIL

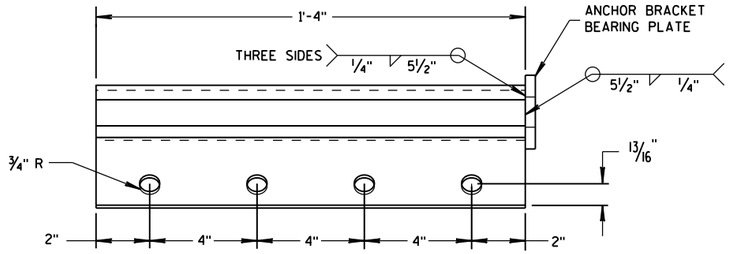


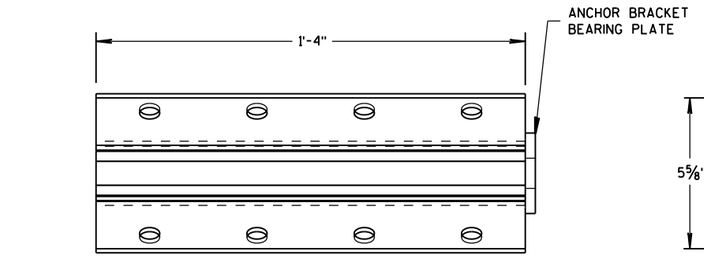
PLAN VIEW

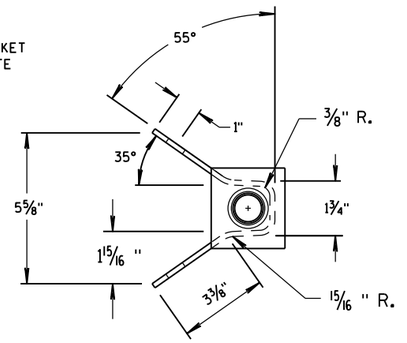


FRONT VIEW

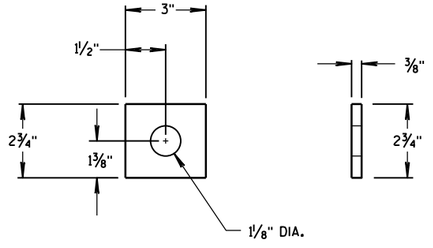
GROUND STRUT DETAIL







ANCHOR BRACKET



ANCHOR BRACKET BEARING PLATE

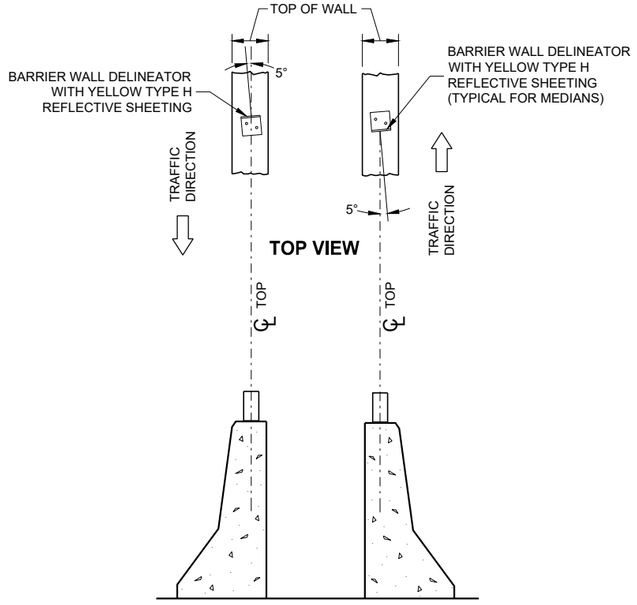
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

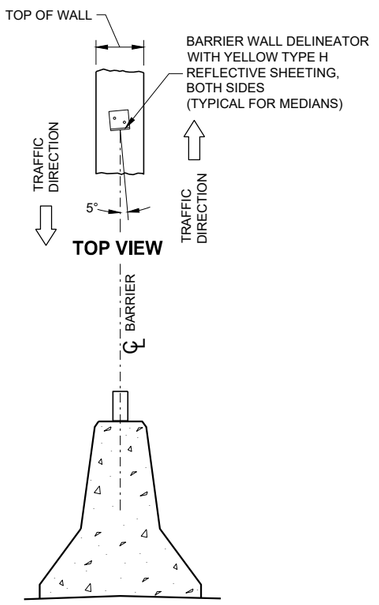
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

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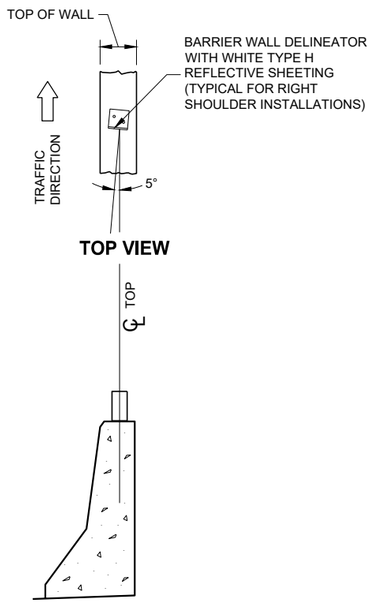
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SIDE VIEW
DOUBLE BARRIERS IN MEDIAN

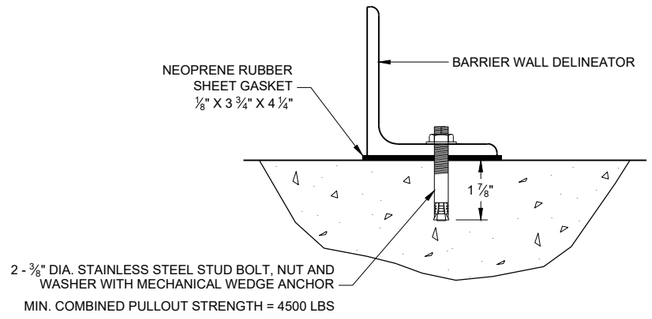


SIDE VIEW
MEDIAN BARRIER

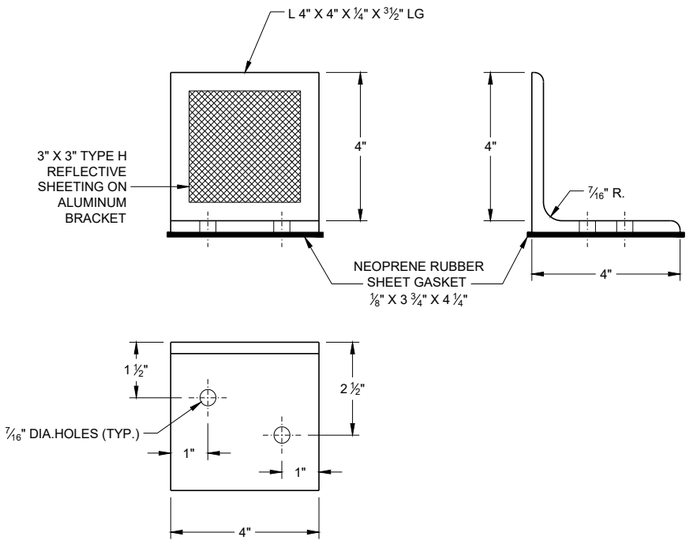


SIDE VIEW
TO RIGHT OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR BARRIER WALL DELINEATOR MOUNTED ON CONCRETE BARRIERS



BARRIER WALL DELINEATOR MOUNTING DETAIL



BARRIER WALL DELINEATOR

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING

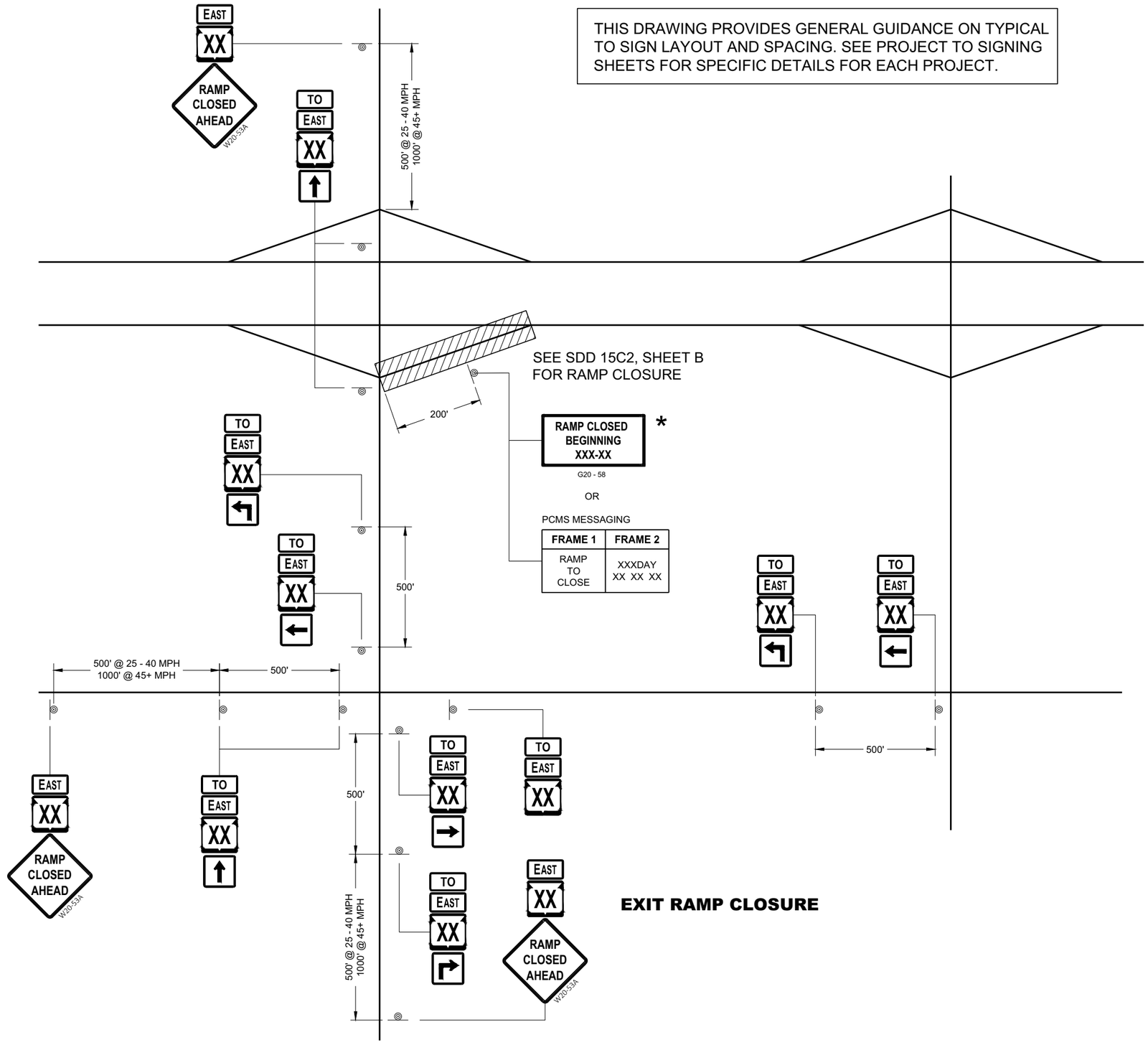
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

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SDD 15A04 - 06b



EXIT RAMP CLOSURE

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

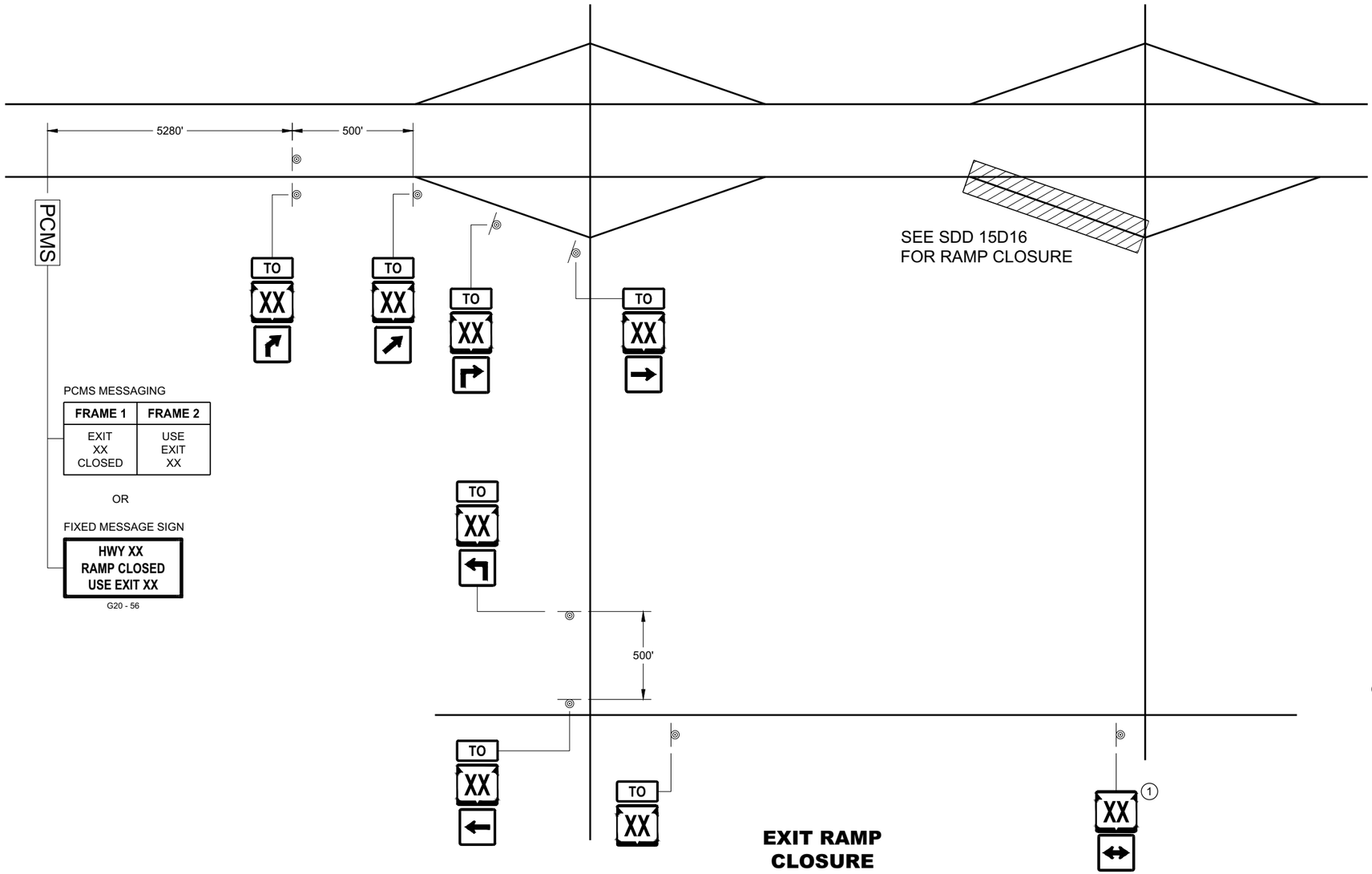
APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEER

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SDD 15C02 - 08d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 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, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

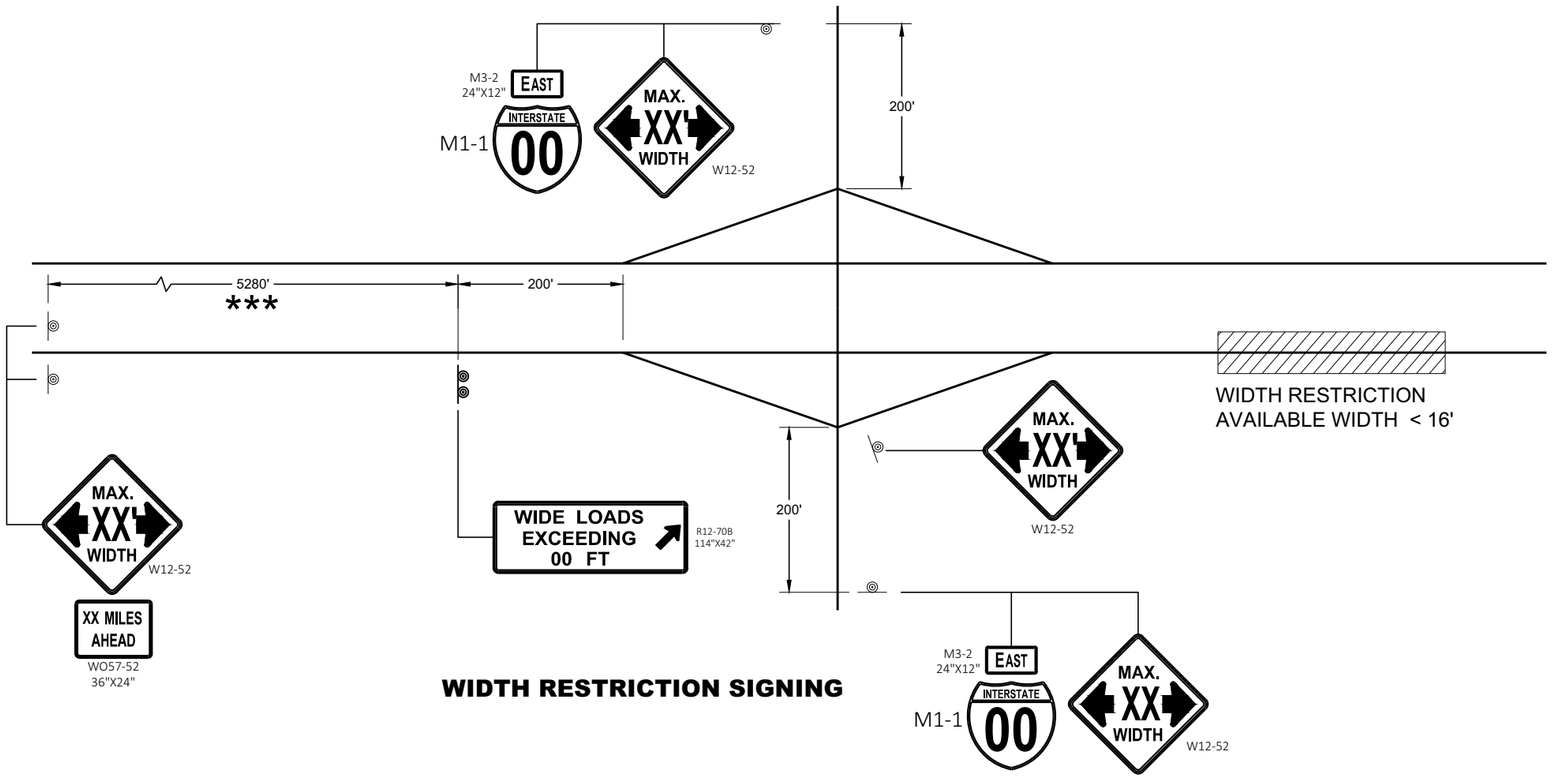
OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
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February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08e



WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

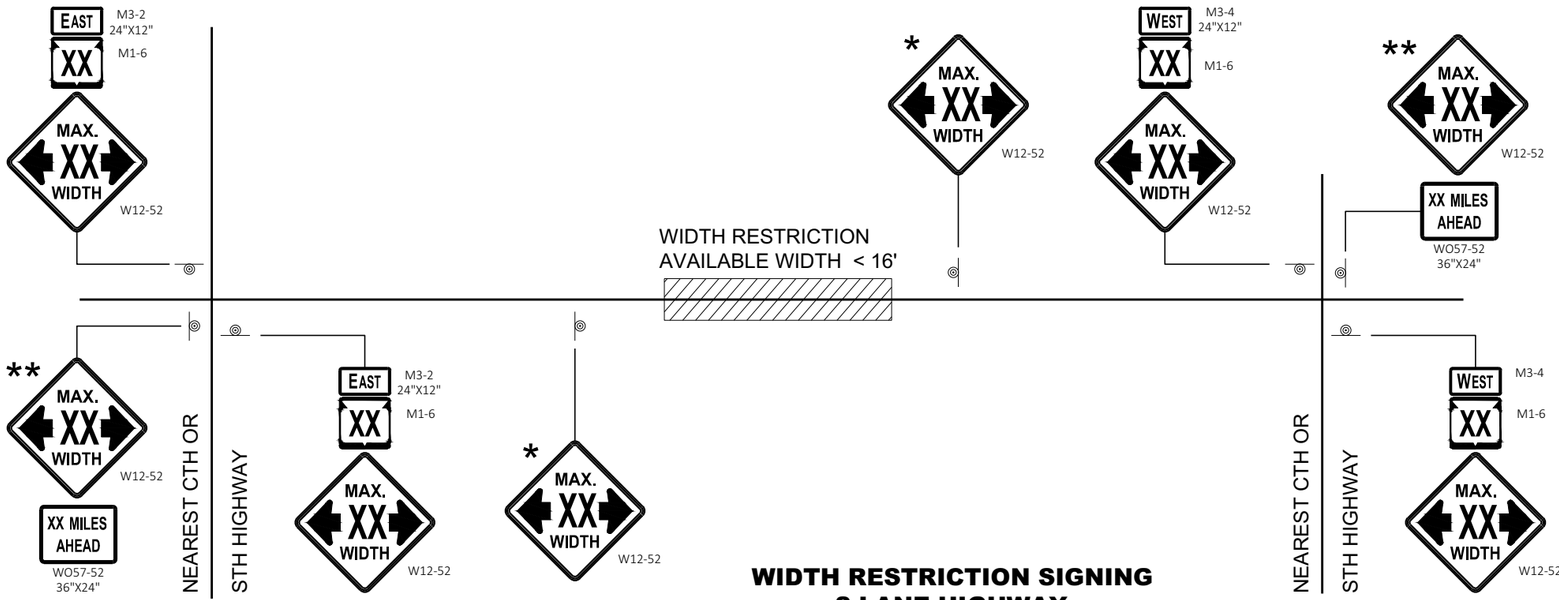
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

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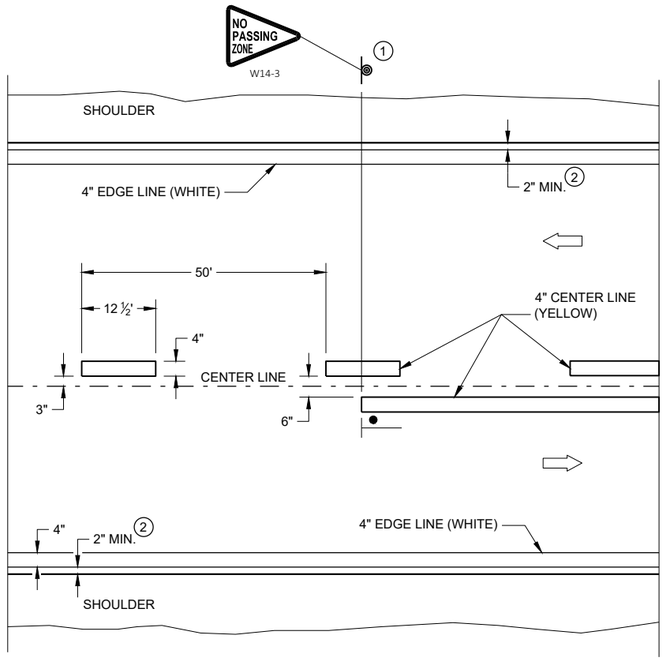
APPROVED
February 2020
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WORK ZONE ENGINEE

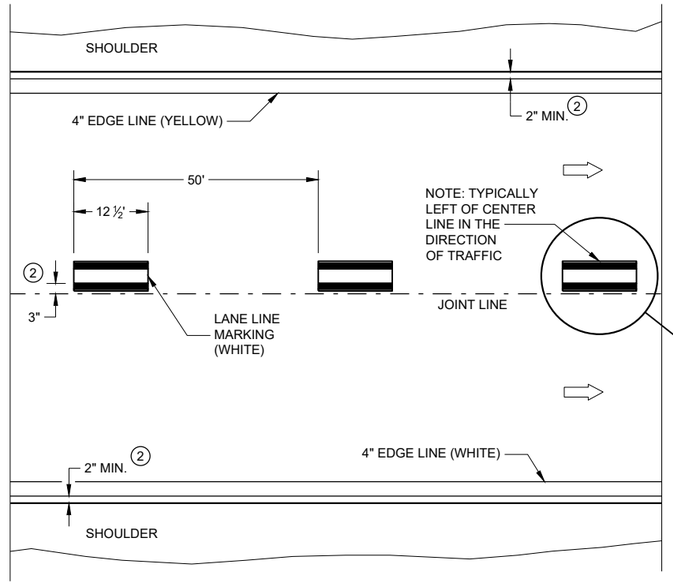
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SDD 15C02 - 08f

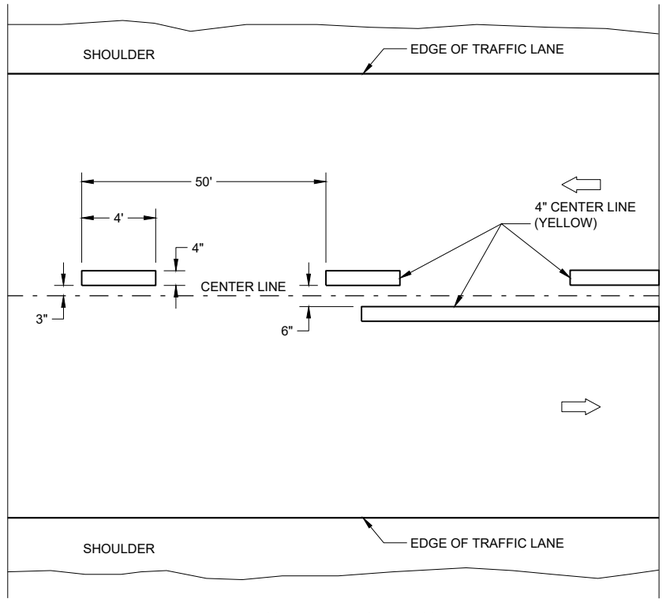


TWO WAY TRAFFIC

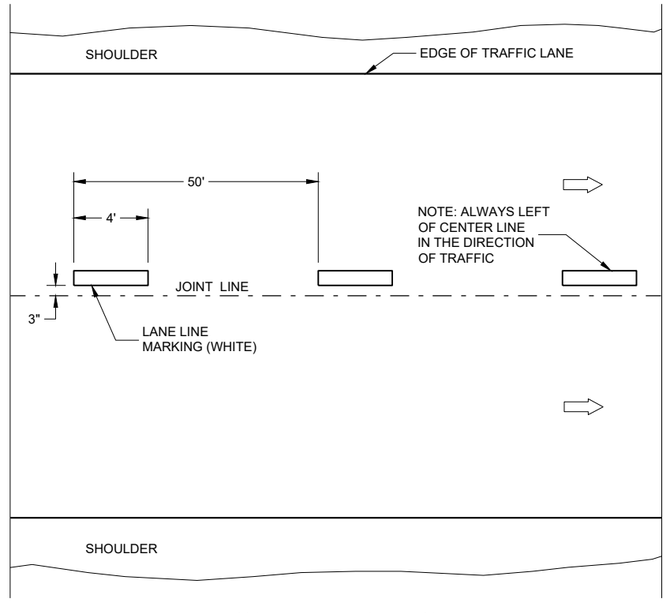


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

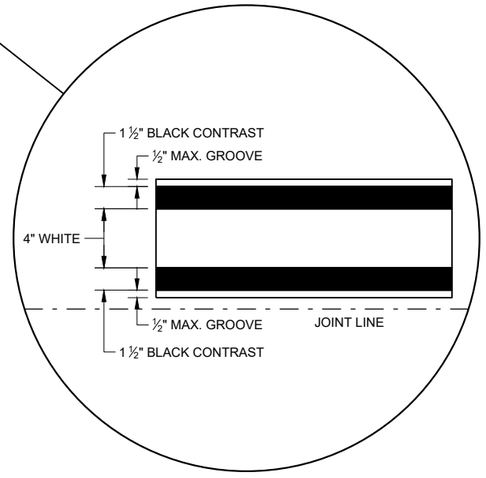
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER

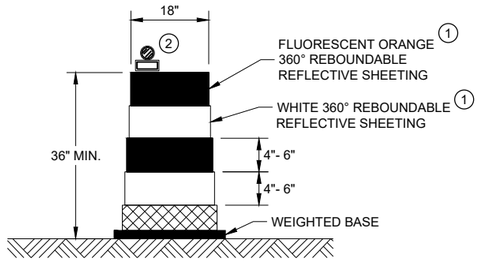
FHWA

SDD 15C08 - 20a

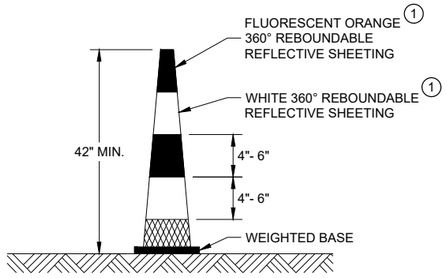
SDD 15C08 - 20a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

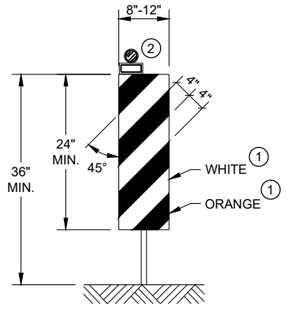


DRUM



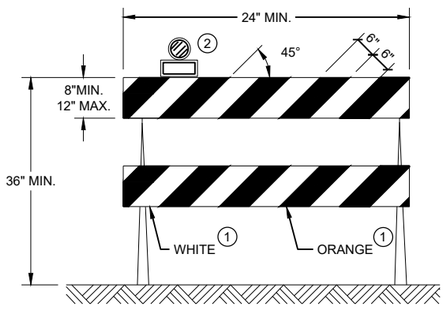
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



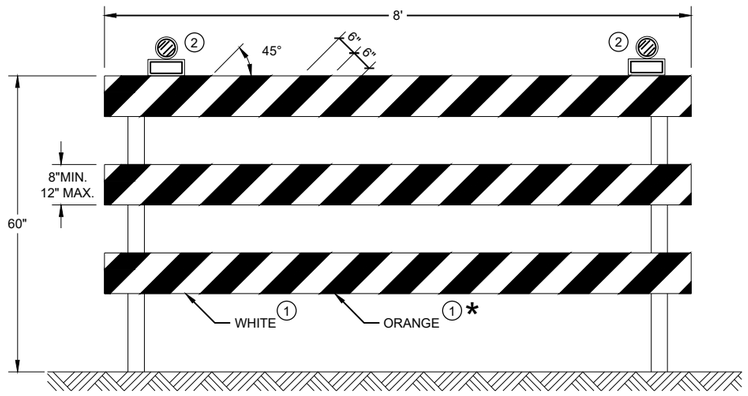
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

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DEPARTMENT OF TRANSPORTATION

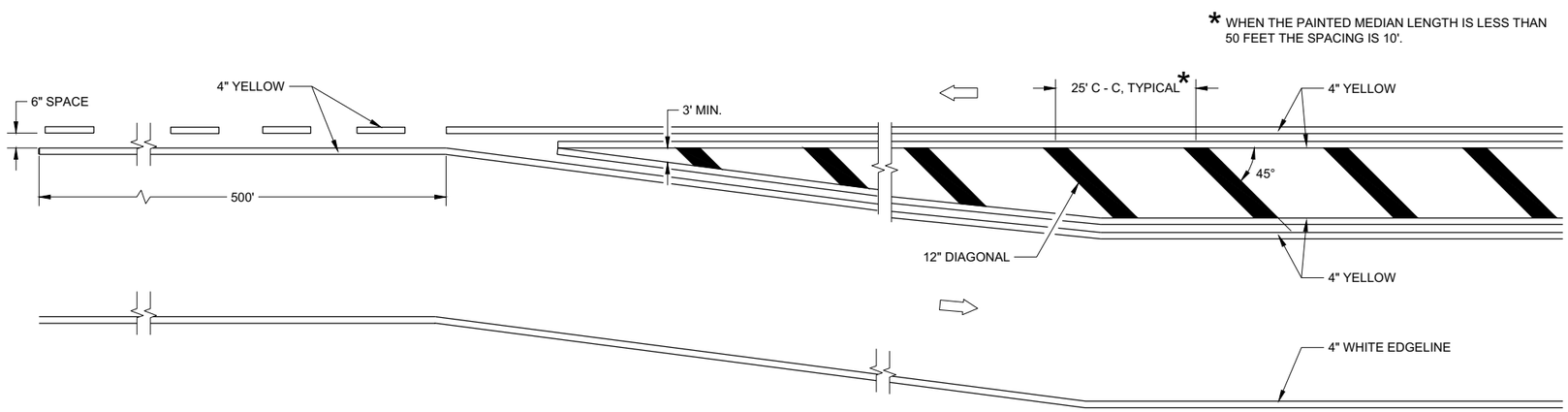
APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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SDD 15C11 - 09b

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SDD 15C11 - 09b

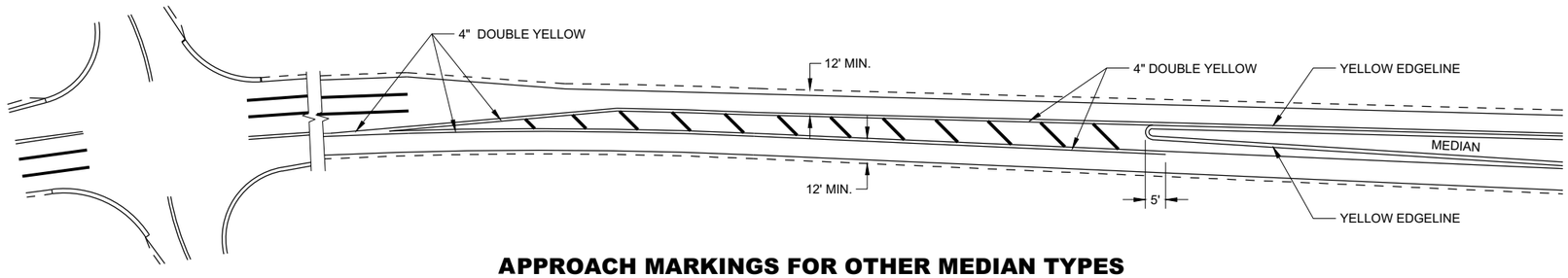


MEDIAN ISLAND DETAIL

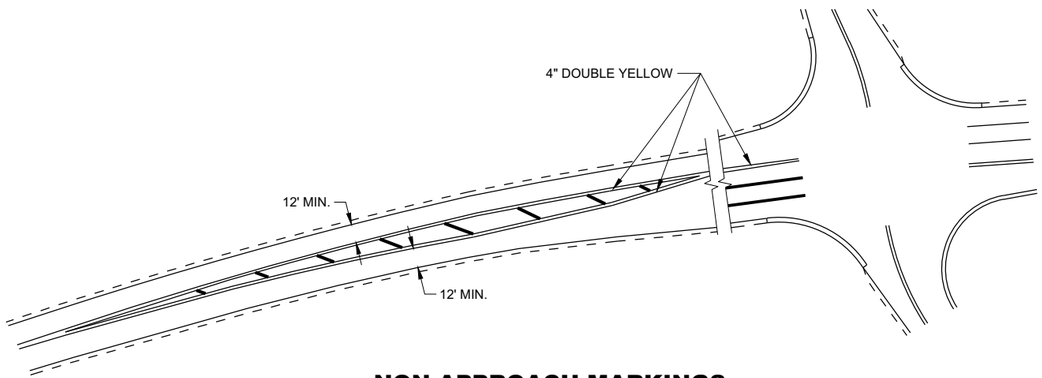
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

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February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

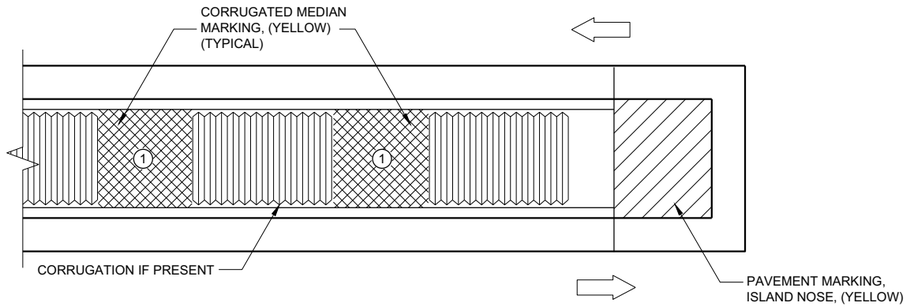
FHWA

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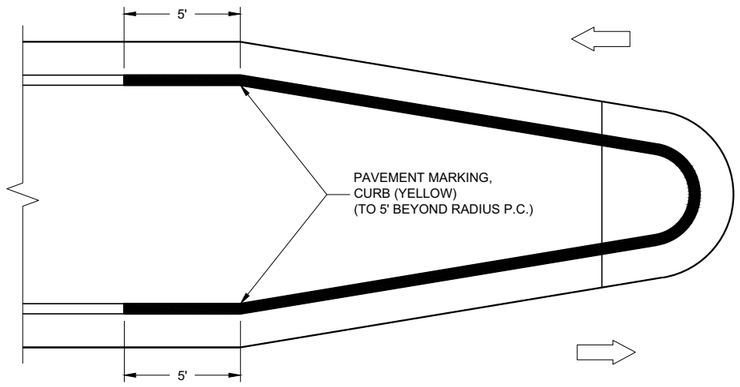
SDD 15C18 - 05a

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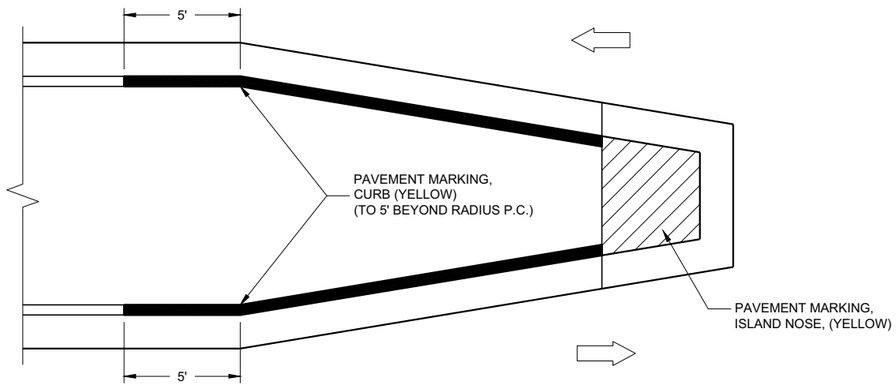
SDD 15C18 - 05a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
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February 2021
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/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER

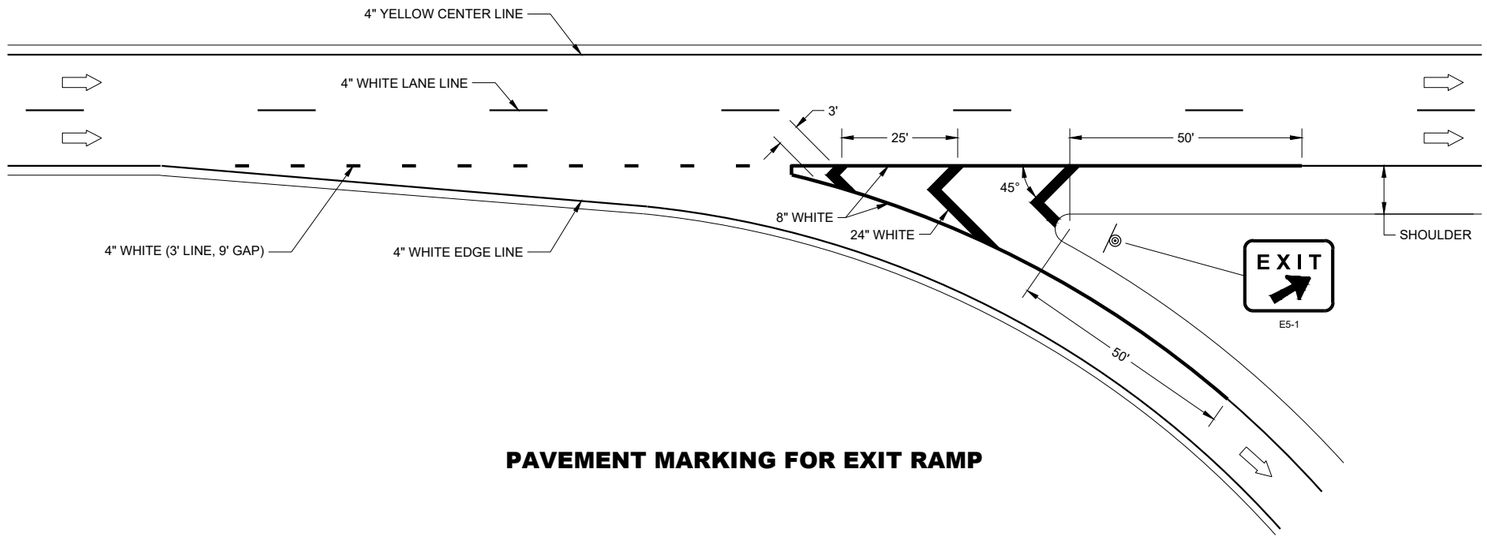
FHWA

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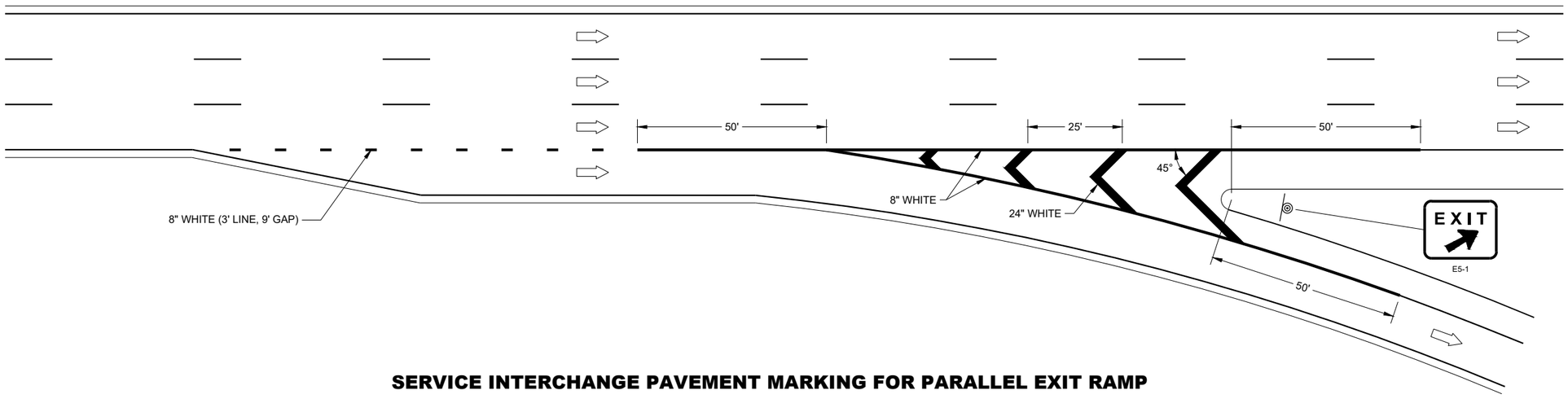
SDD 15C18 - 05b

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SDD15C18 - 05b



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

6

SDD 15C31 - 04a

PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15C31 - 04a

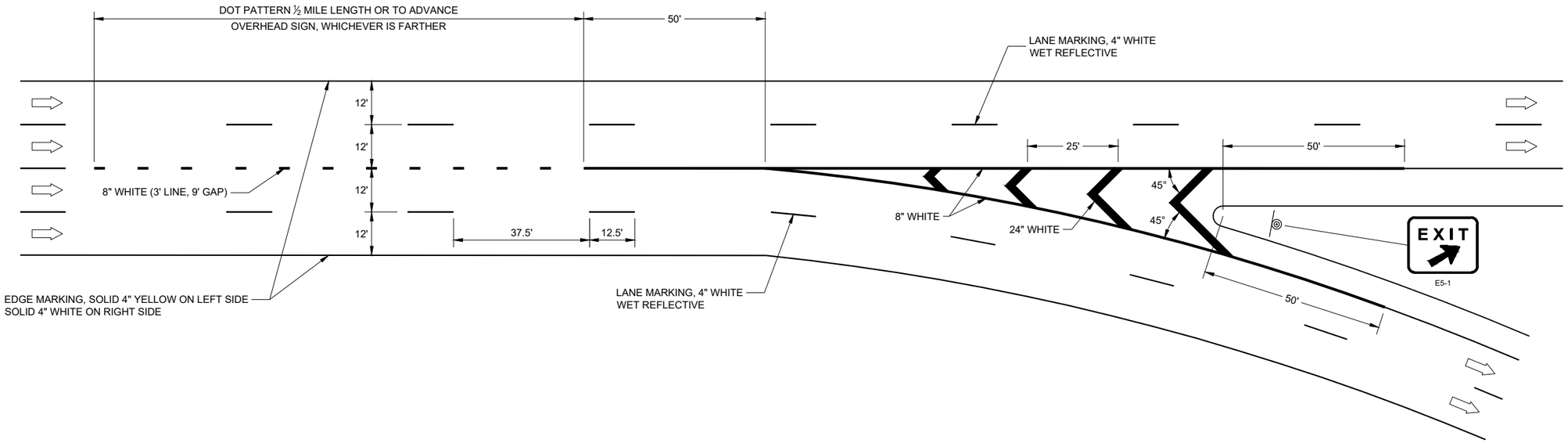
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL



6

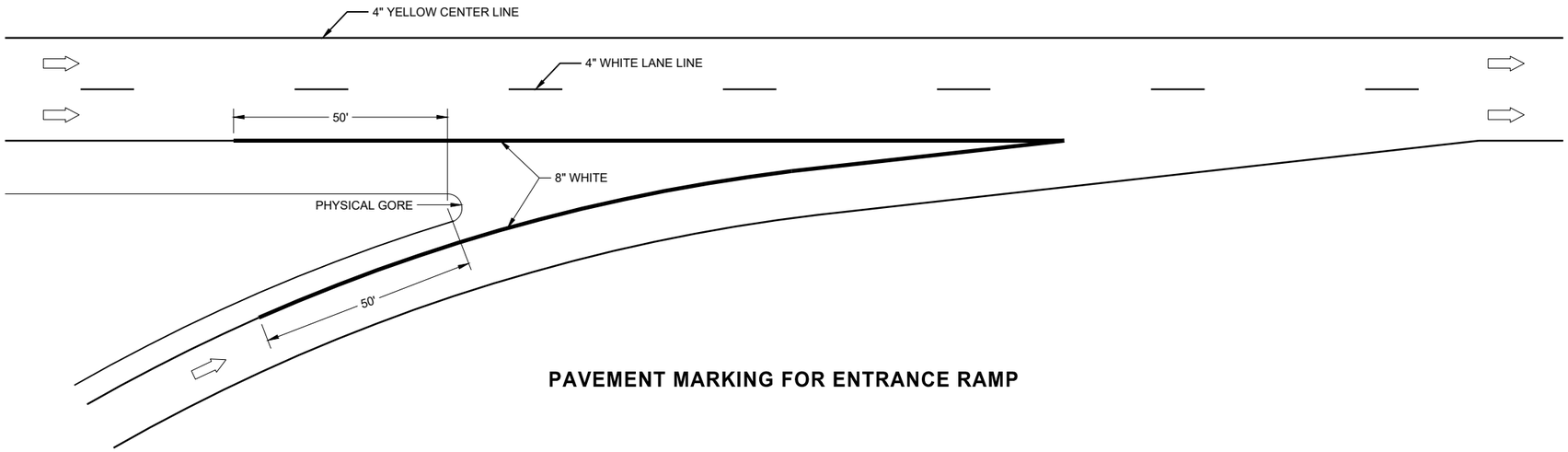
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SDD 15C31 - 04b

SDD 15C31 - 04b

PAVEMENT MARKING, MAJOR SPLIT FREEWAY TO FREEWAY

STATE OF WISCONSIN
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PAVEMENT MARKING FOR ENTRANCE RAMP

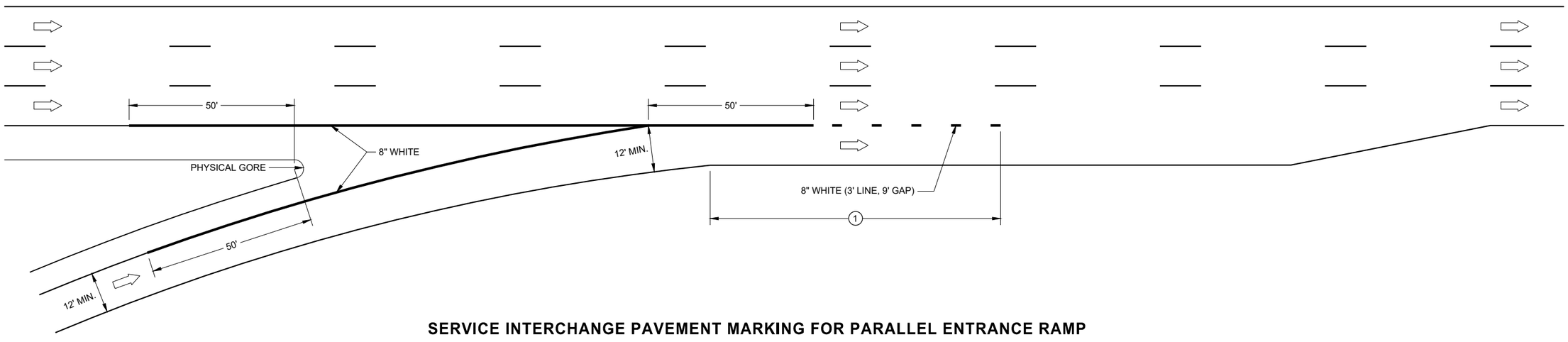
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

(1) ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

LEGEND

DIRECTION OF TRAVEL



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

6

SDD 14C31 - 04c

PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14C31 - 04c

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 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.

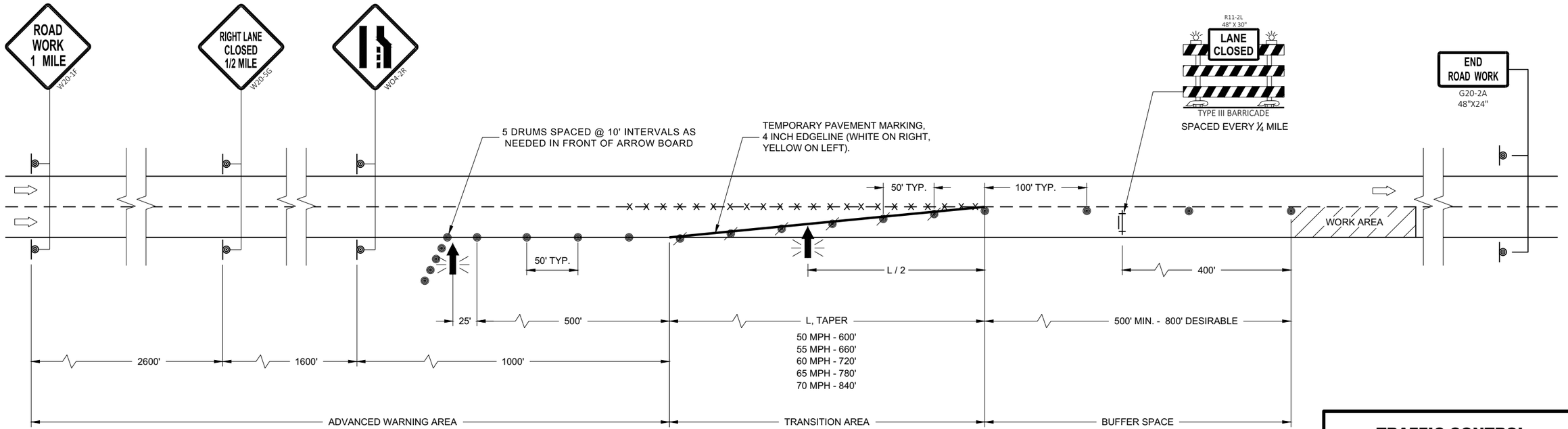
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 09a

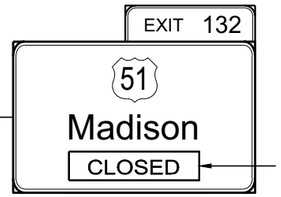
6

SDD 15D12 - 09a



G20 - 60
108" X 24"

OR



G20 - 60
108" X 24"

PLACE SIGN G20 - 60 OVER MILEAGE
ON EXISTING E1 - 1A SIGN

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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 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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

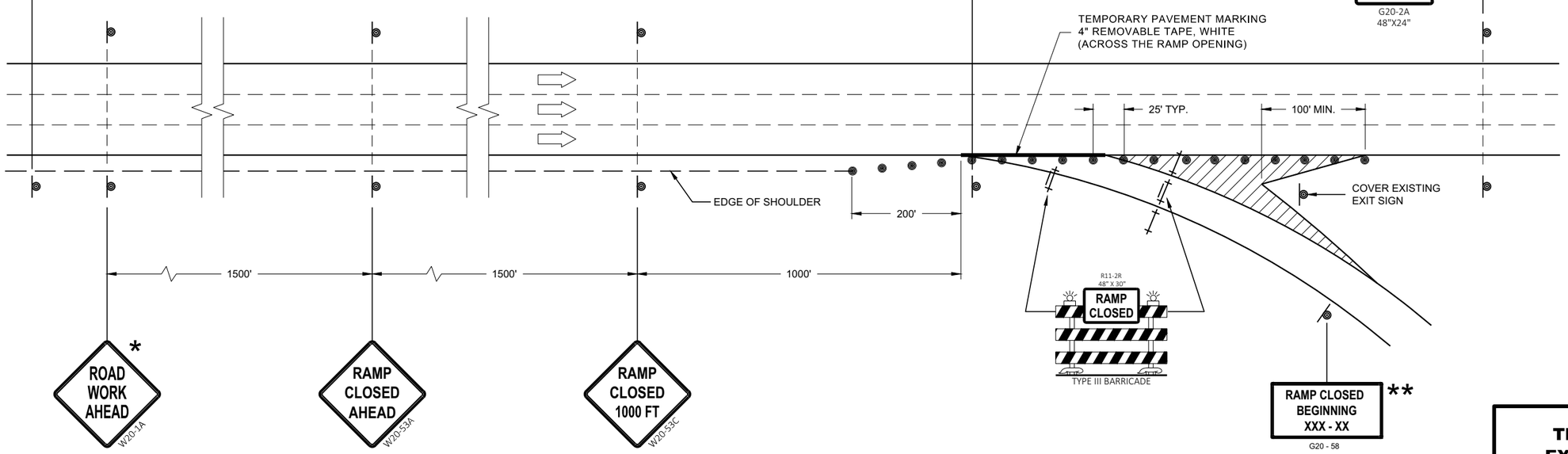
* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



COVER ARROW ON EXISTING
E4 - 1 SIGN (COVERING SIGNS
TYPE I)

G20 - 61
120 ' X 30"



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 15D16 - 04

6

SDD 15D16 - 04

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)

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 DESIREABLE) 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.

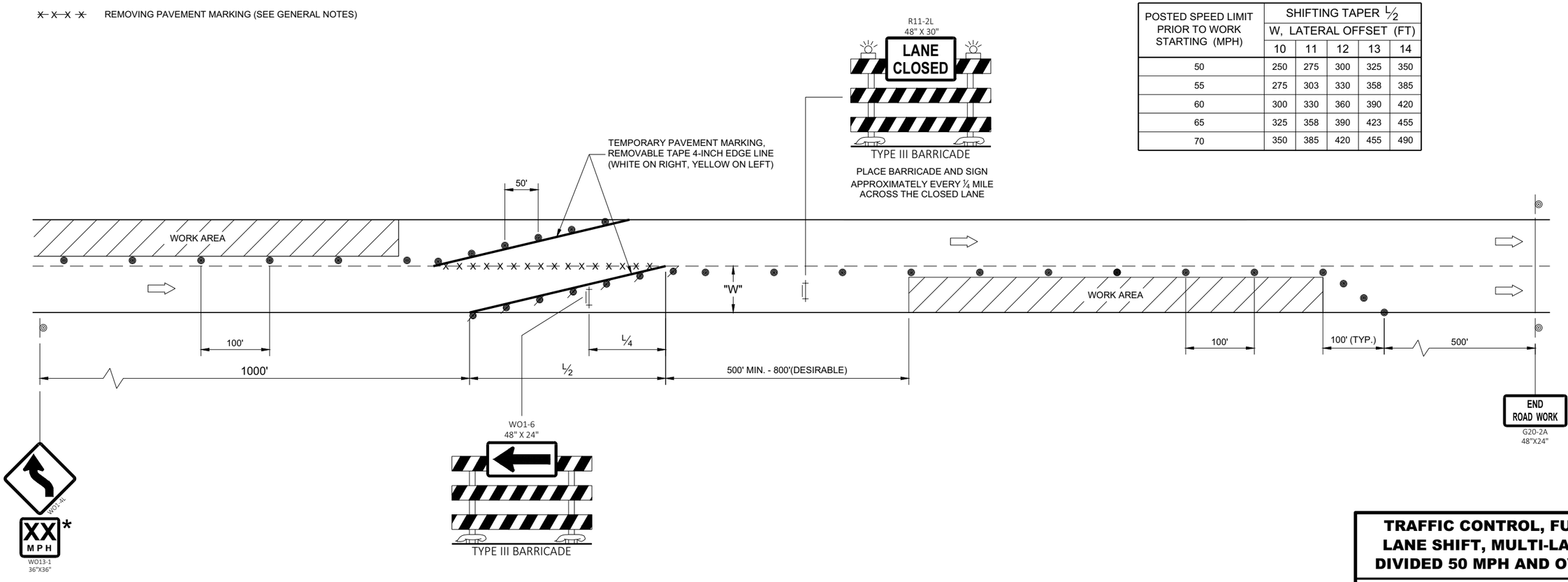
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D40 - 02b

SDD 15D40 - 02b

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
- REMOVE PAVEMENT MARKING

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.

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REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

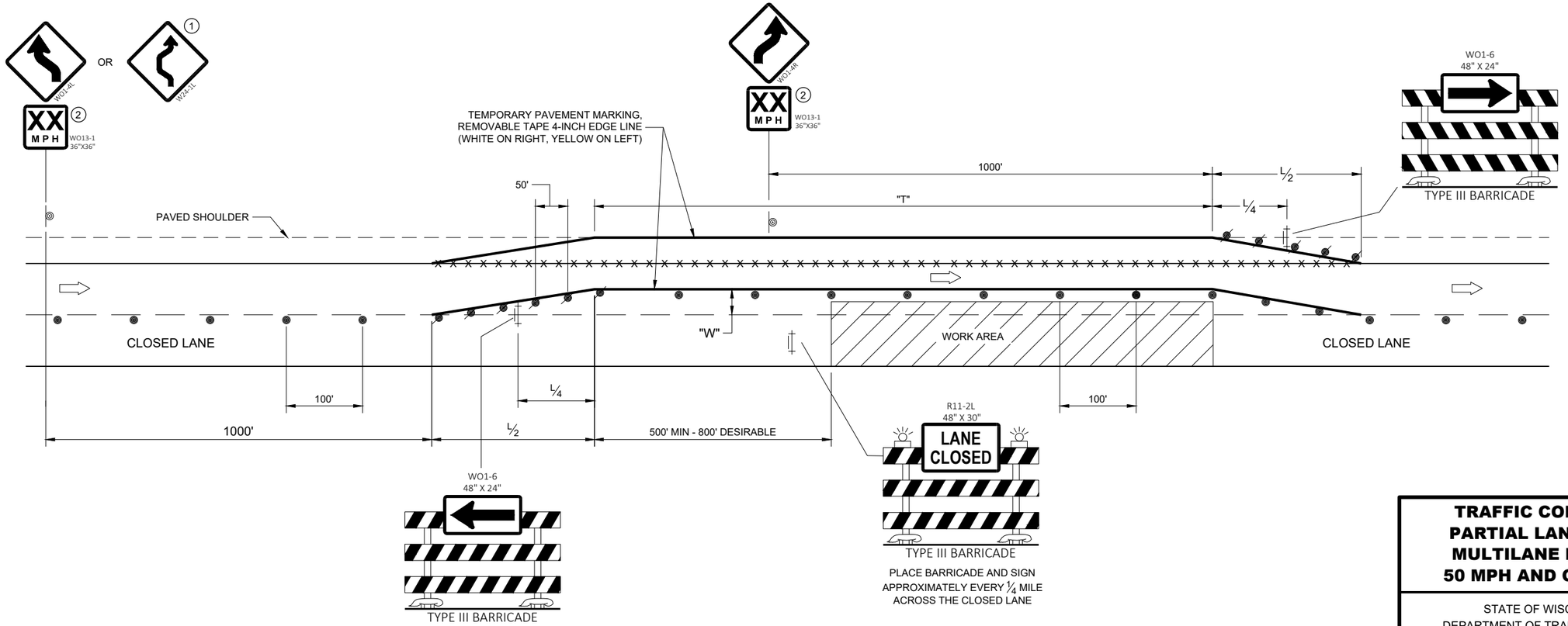
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(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE

TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

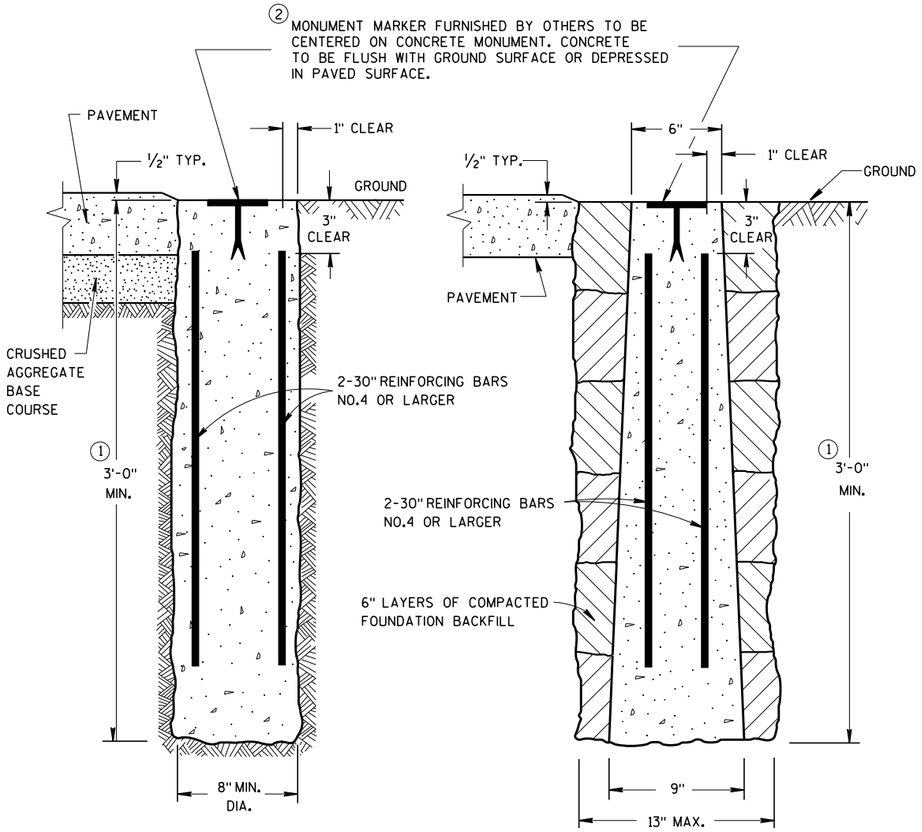
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 15D40 - 02d

SDD 15D40 - 02d

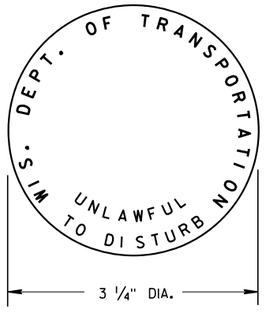


CAST-IN-PLACE

PRECAST

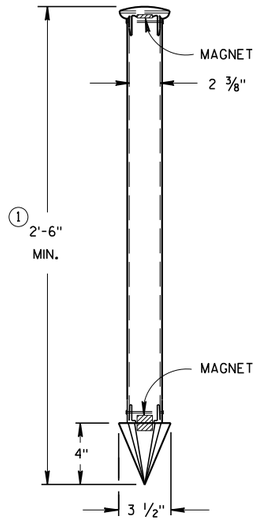
CONCRETE MONUMENTS

TYPE A



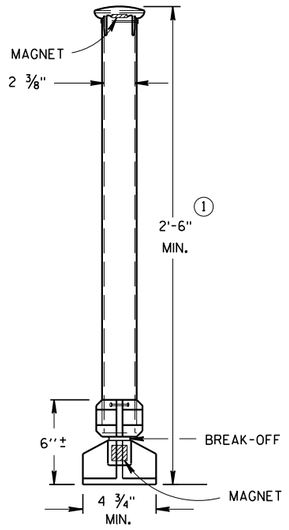
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

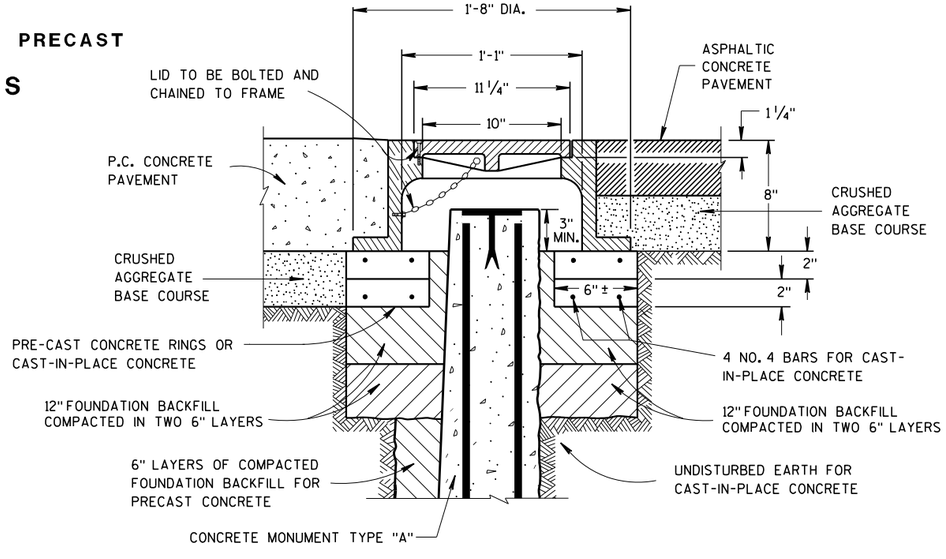
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

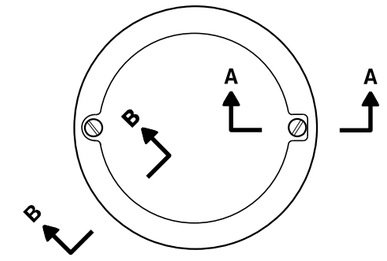
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

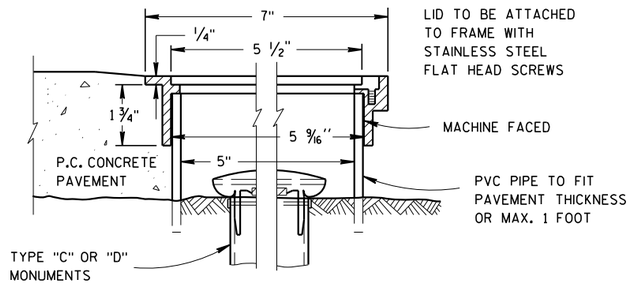
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

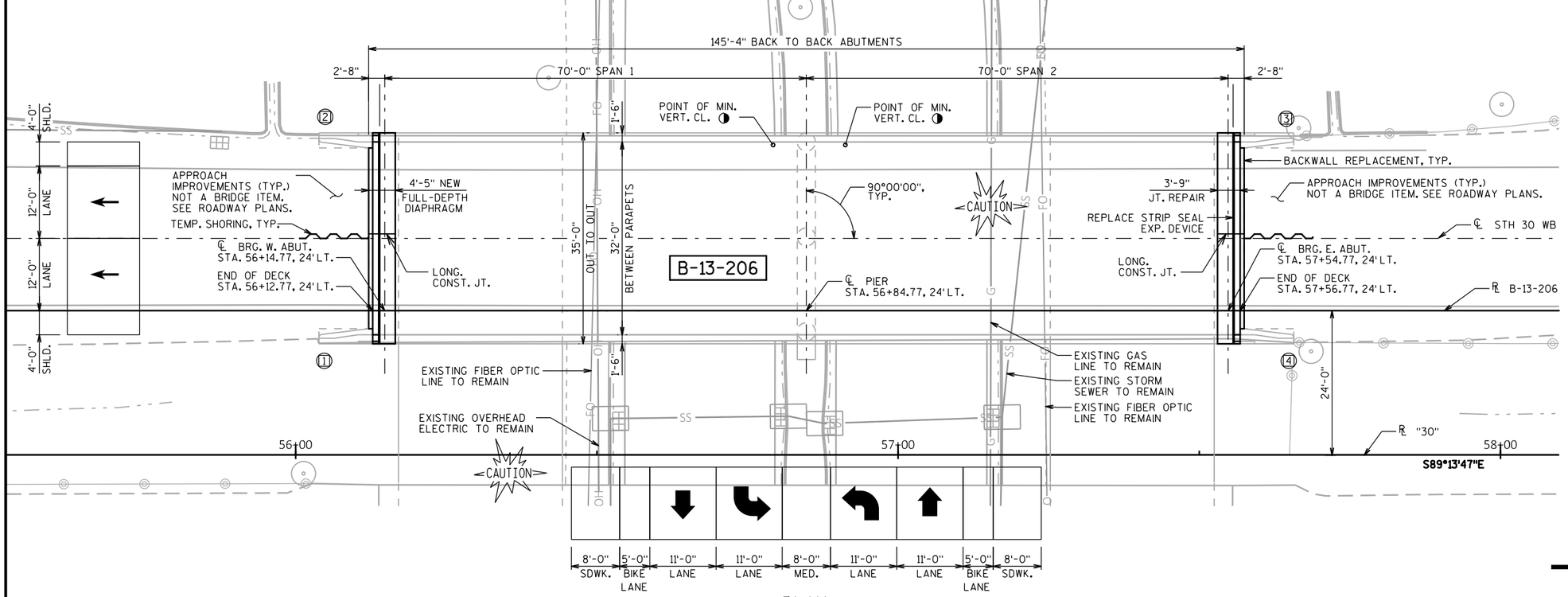
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. [illegible] — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

6

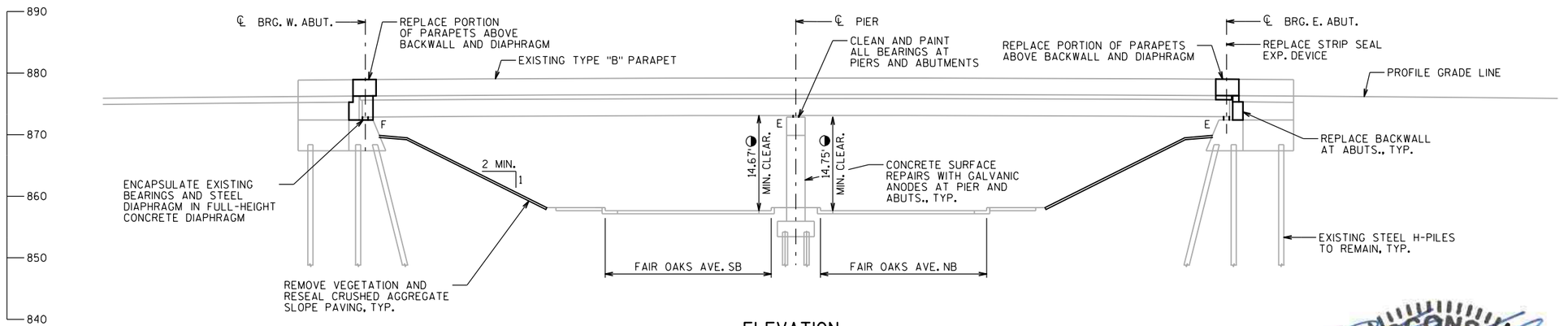
S.D.D. 16 A 1-7

STATE PROJECT NUMBER
5490-00-62



PLAN

(JOINT AND BACKWALL REPLACEMENT - 2 SPAN STEEL GIRDERS)



ELEVATION

(LOOKING NORTH)

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. GENERAL NOTES & QUANTITIES
3. REMOVAL DETAILS
4. TYPICAL SECTION & CONSTRUCTION STAGING
5. WEST ABUTMENT
6. WEST ABUTMENT DIAPHRAGM DETAILS
7. EAST ABUTMENT
8. EAST ABUTMENT DETAILS
9. EAST ABUTMENT JOINT REPLACEMENT (1 OF 3)
10. EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)
11. EAST ABUTMENT JOINT REPLACEMENT (3 OF 3)
12. PARAPET DETAILS
13. GALVANIC ANODES

LEGEND

- TRAFFIC DIRECTION
- (X) WING NUMBER
- CLEARANCE DIMENSION TAKEN FROM HSI; MEASUREMENT TAKEN 1-22-2010. LOCATION PER EXISTING PLANS.

TRAFFIC DATA

STH 30

EXISTING A.D.T. = 47,990 (2018)
FUTURE A.D.T. = 52,460 (2028)
R.D.S. = 55 M.P.H.

FAIR OAKS AVE.

EXISTING A.D.T. = 11,150 (2018)
FUTURE A.D.T. = NA
R.D.S. = 25 M.P.H.

DESIGN DATA

LIVE LOAD

TAKEN FROM HSI, 10/28/2020
INVENTORY RATING: HS17
OPERATING RATING: HS29
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 230 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
SUBSTRUCTURE..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED SDR 08/17/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN MATTHEW S SCHROEDER E-42428 JOHNSON CREEK WI PROFESSIONAL ENGINEER 7-26-21

STRUCTURE B-13-206

STH 30 WB OVER FAIR OAKS AVE.

COUNTY	TOWN/CITY ~~/VILLAGE~~
DANE	MADISON

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CVH	MSS	CVH	MSS

GENERAL PLAN & ELEVATION

SHEET 1 OF 13

FILE NAME : J:\73234\b1\B-13-206\cds\B-13-206_080101_gp.dgn PLOT DATE : 3/11/2021 11:27:31 AM PLOT BY : msschroeder PLOT NAME : $FILE$ PLOT SCALE : 20:1

STATE PROJECT NUMBER
5490-00-62

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS AND DIMENSIONS ARE BASED OFF EXISTING PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.

"REMOVING STRUCTURE B-13-206" BID ITEM INCLUDES EXISTING BACKWALL REMOVAL AND OTHER REMOVALS AS MAY BE REQUIRED FOR COMPLETION OF THE WORK.

REMOVAL OF THE BRIDGE DECK, PAVING BLOCK, AND PARAPETS AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION.

AT THE BACKFACE OF ABUTMENT, ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE A".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE TOPS OF THE PAVING BLOCKS, AND THE TOP OF NEW DECK ASSOCIATED WITH THE JOINT REPLACEMENT.

CLEAN AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES OF THE EXISTING PARAPET. PAID FOR UNDER "PIGMENTED SURFACE SEALER RESEAL".

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY BRIDGES". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF PARAPETS WITHIN THE JOINT REPAIR LIMITS.

NEW CONCRETE AT THE BACKWALL REPLACEMENT IS PAID FOR AS "CONCRETE MASONRY BRIDGES".

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE ¾" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

EXISTING EXPANSION BEARINGS AT THE EAST ABUTMENT AND PIER AND FIXED BEARINGS AT THE WEST ABUTMENT TO BE CLEANED AND PAINTED. PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL BEARINGS SHALL BE PAINTED GRAY, AMS STANDARD COLOR NUMBER 26293.

REMOVE ALL VEGETATION FROM EXISTING CRUSHED AGGREGATE SLOPE PAVING PRIOR TO RESEALING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-13-206".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CLEAN AND SEAL EAST ABUTMENT SEATS AFTER COMPLETING ALL OTHER ADJACENT WORK. PAID FOR AS "ABUTMENT SEAT CLEANING AND SEALING".

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0220.01	REMOVING STRUCTURE B-13-206	EACH	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-13-206	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	75
502.0100	CONCRETE MASONRY BRIDGES	CY	32
502.3101	EXPANSION DEVICE	LF	35
502.3200	PROTECTIVE SURFACE TREATMENT	SY	29
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	130
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	112
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,820
505.0904	BAR COUPLERS NO. 4	EACH	6
505.0905	BAR COUPLERS NO. 5	EACH	22
505.0906	BAR COUPLERS NO. 6	EACH	12
509.1000	JOINT REPAIR	SY	15
509.1500	CONCRETE SURFACE REPAIR	SF	15
511.1200.01	TEMPORARY SHORING B-13-206	SF	64
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	234
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	100
645.0111	GEOTEXTILE FABRIC TYPE DF SCHEDULE A	SY	78
SPV.0060.01	CLEANING AND PAINTING BEARINGS	EACH	15
SPV.0060.02	EMBEDDED GALVANIC ANODES	EACH	10
SPV.0060.03	VEGETATION REMOVAL B-13-206	EACH	1
SPV.0180.01	ABUTMENT SEAT CLEANING AND SEALING	SY	9
	NON-BID ITEMS		
	RODENT SHIELD	EACH	2

ALL ITEMS ARE CATEGORY 0020

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

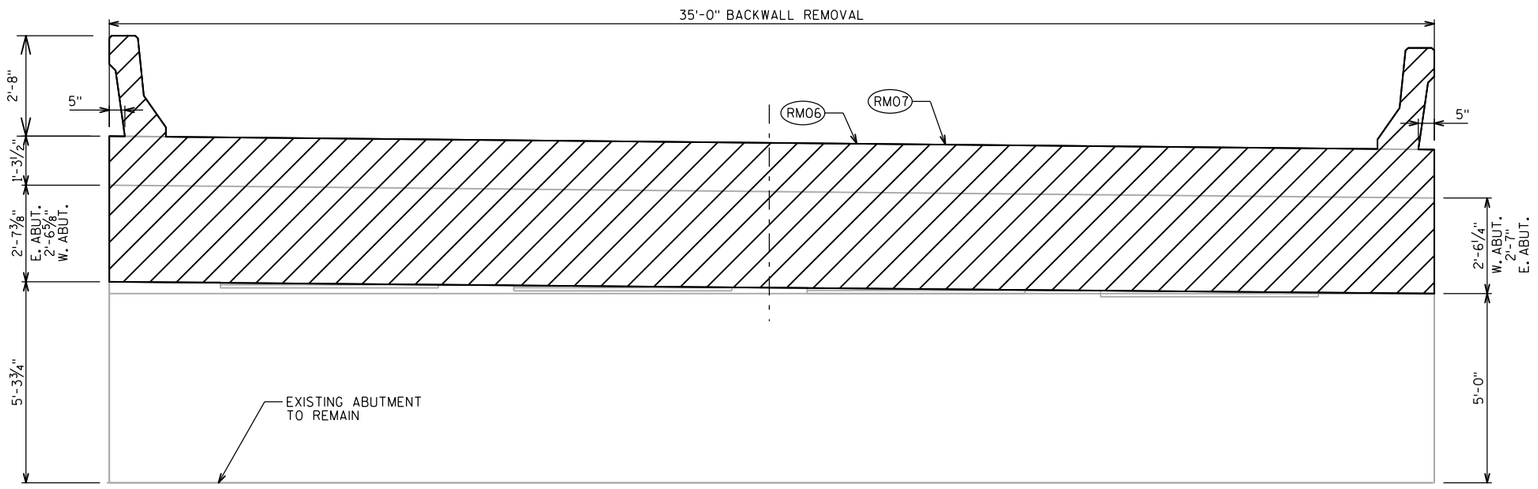
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GENERAL NOTES & QUANTITIES

SHEET 2 OF 13

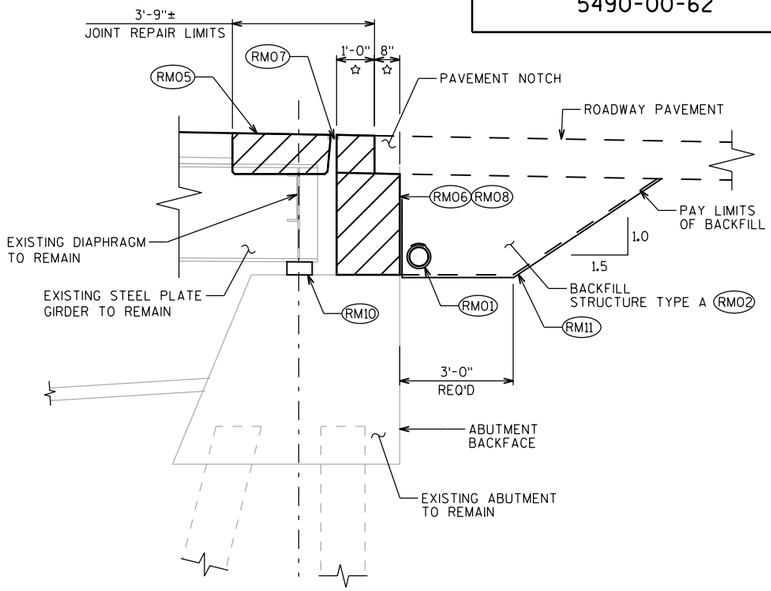
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STATE PROJECT NUMBER
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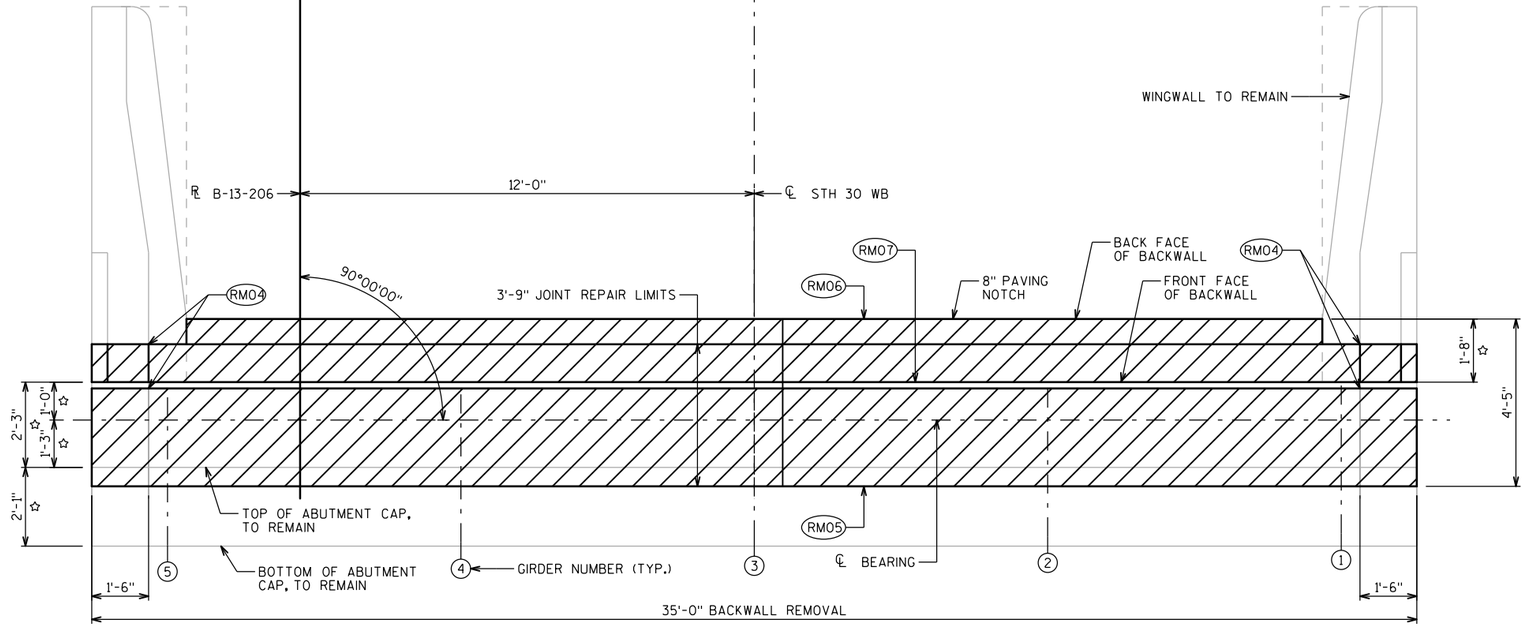


REMOVAL ELEVATION AT ABUTMENT

(LOOKING WEST)
(WEST ABUTMENT SHOWN, REMOVAL AT EAST ABUTMENT IS SIMILAR)
SUPERSTRUCTURE NOT SHOWN FOR CLARITY



REMOVAL & EXCAVATION DIAGRAM



REMOVAL PLAN AT ABUTMENT

(WEST ABUTMENT SHOWN, REMOVAL AT EAST ABUTMENT IS SIMILAR)
SUPERSTRUCTURE NOT SHOWN FOR CLARITY

LEGEND

- REMOVAL LIMITS
- (RM01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE "EAST ABUTMENT DETAILS" SHEET FOR RODENT SHIELD DETAILS.
- (RM02) BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- (RM04) REMOVE EXISTING PARAPET WITHIN JOINT REPAIR LIMITS.
- (RM05) REMOVE EXISTING BRIDGE DECK WITHIN JOINT REPAIR LIMITS.
- (RM06) REMOVE EXISTING BACKWALL AND PAVING BLOCK.
- (RM07) REMOVE EXISTING EXPANSION DEVICE.
- (RM08) PRESERVE AND REUSE EXISTING VERTICAL ABUTMENT REINFORCEMENT THAT EXTENDS INTO BACKWALL.
- (RM10) CLEAN AND PAINT EXISTING BEARINGS, SEE "GENERAL NOTES" FOR ADDITIONAL NOTES.
- (RM11) "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF EXCAVATION FOR THE ENTIRE ABUTMENT BODY LENGTH.
- ☆ DIMENSIONS ARE TAKEN FROM THE EXISTING STRUCTURE PLAN.

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STRUCTURE B-13-206

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REMOVAL DETAILS

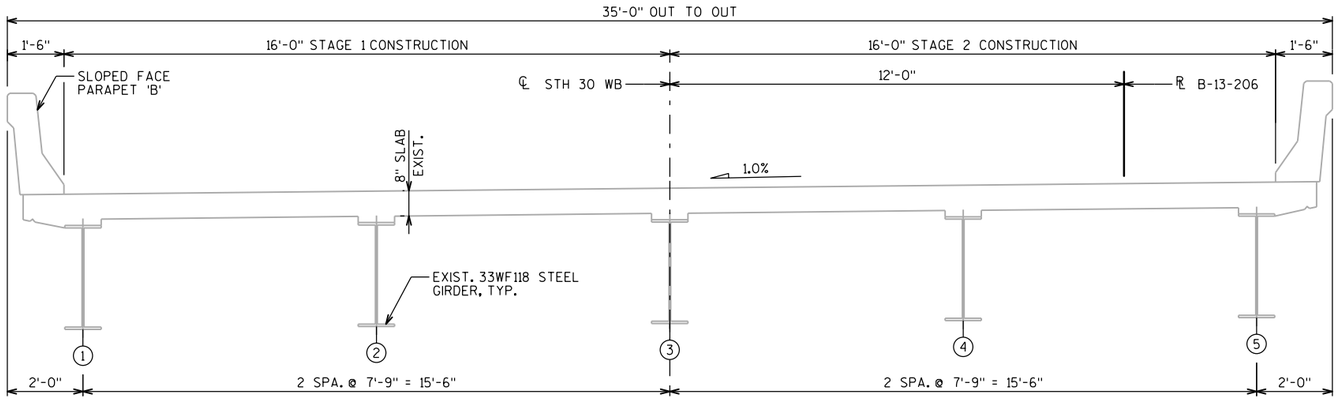
SHEET 3 OF 13

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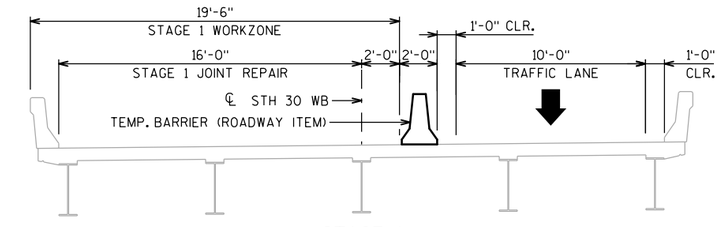
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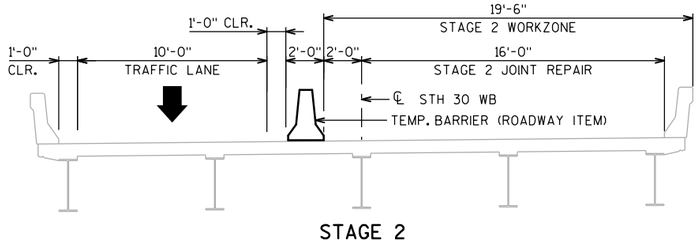
EXISTING TYPICAL SECTION

(LOOKING EAST)



STAGE 1

(LOOKING EAST)



STAGE 2

(LOOKING EAST)

CONSTRUCTION STAGING

STAGING NOTES

SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS.

COMPLETE ALL ON-DECK STRUCTURE WORK IN STAGE 1 AND STAGE 2 EXCEPT FOR PROTECTIVE SURFACE TREATMENT, WHICH IS TO BE APPLIED DURING SHORT-TERM CLOSURES. TIMING OF PROTECTIVE SURFACE TREATMENT APPLICATION AS PER THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

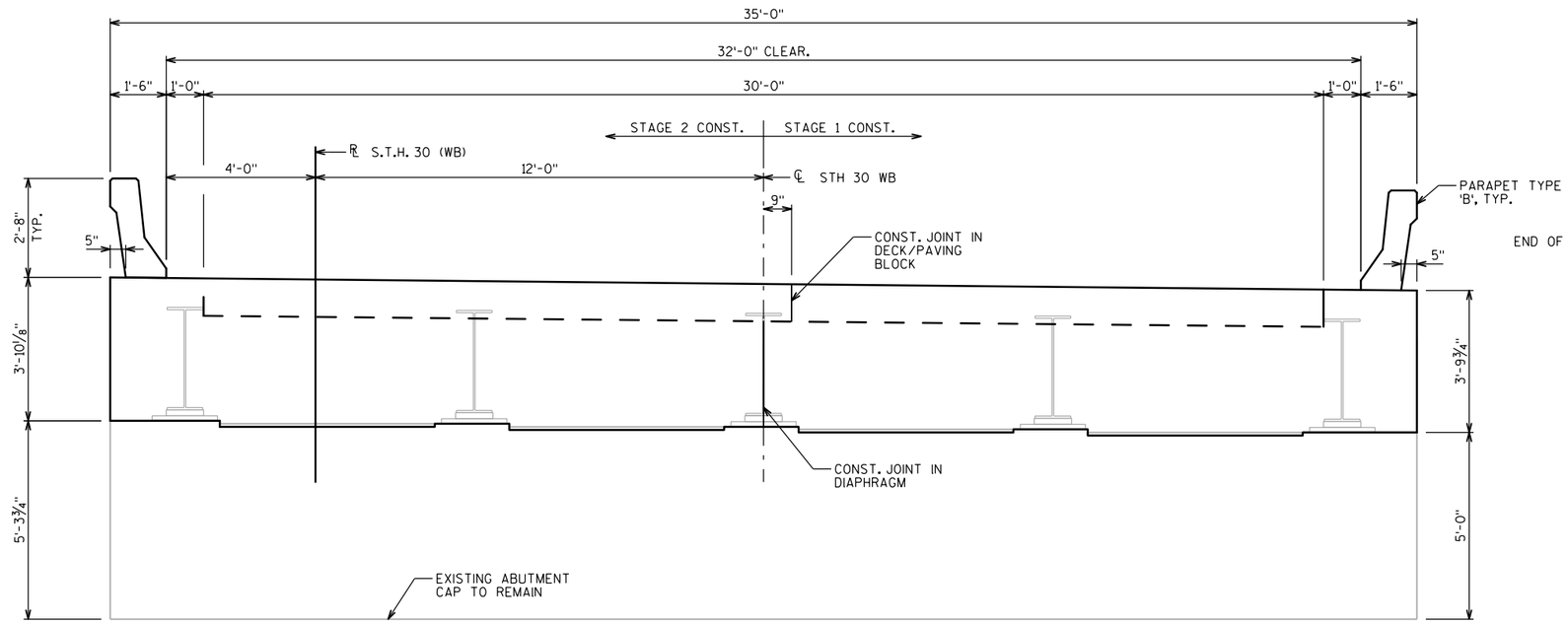
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TYPICAL SECTION & CONSTRUCTION STAGING

SHEET 4 OF 13

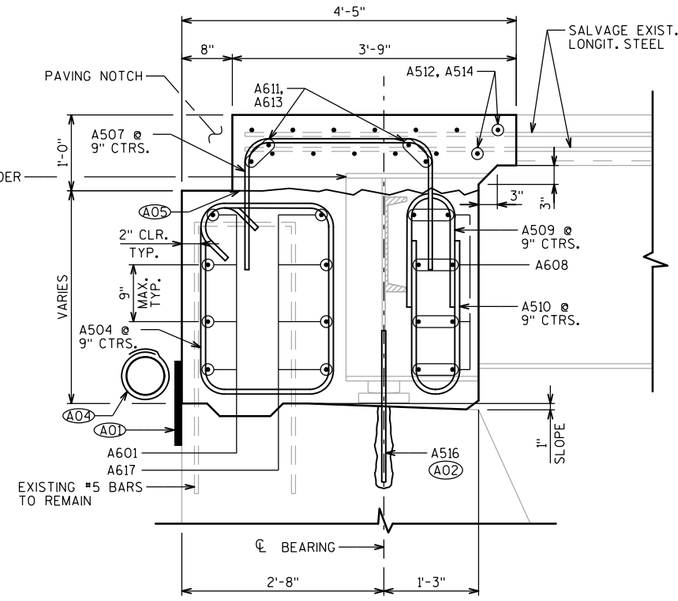
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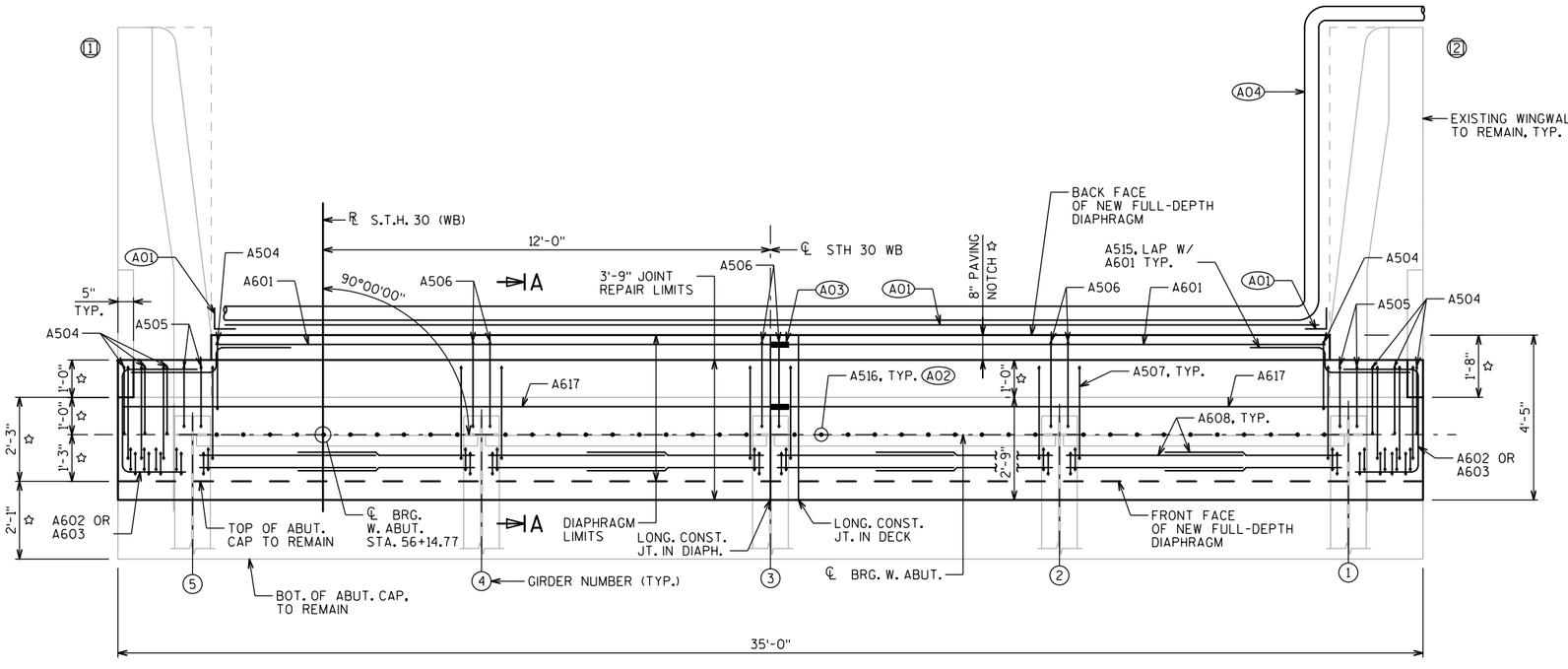


ELEVATION AT WEST ABUTMENT

(LOOKING WEST)
SEE "WEST ABUTMENT DIAPHRAGM DETAILS" SHEET FOR DIAPHRAGM REBAR



SECTION A-A



WEST ABUTMENT PLAN

DECK REINF. NOT SHOWN FOR CLARITY

NOTES

FOR DIAPHRAGM STIRRUP LAYOUTS, SEE "WEST ABUTMENT DIAPHRAGM DETAILS" SHEET

FOR PARAPET DETAILS, SEE "PARAPET DETAILS" SHEET.

EXISTING WINGWALLS TO REMAIN.

LEGEND

- (A01) 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENTS.
- (A02) ADHESIVE ANCHORS: NO. 5 BARS FOR A516, EMBED 1'-0".
- (A03) BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS. SEE "EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)" SHEET FOR DETAILS.
- (A04) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE "EAST ABUTMENT DETAILS" SHEET FOR RODENT SHIELD DETAILS.
- (A05) CONST. JT. - STRIKE OFF AND LEAVE ROUGH.
- ☆ PER EXISTING STRUCTURE PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.
- (X) WING NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

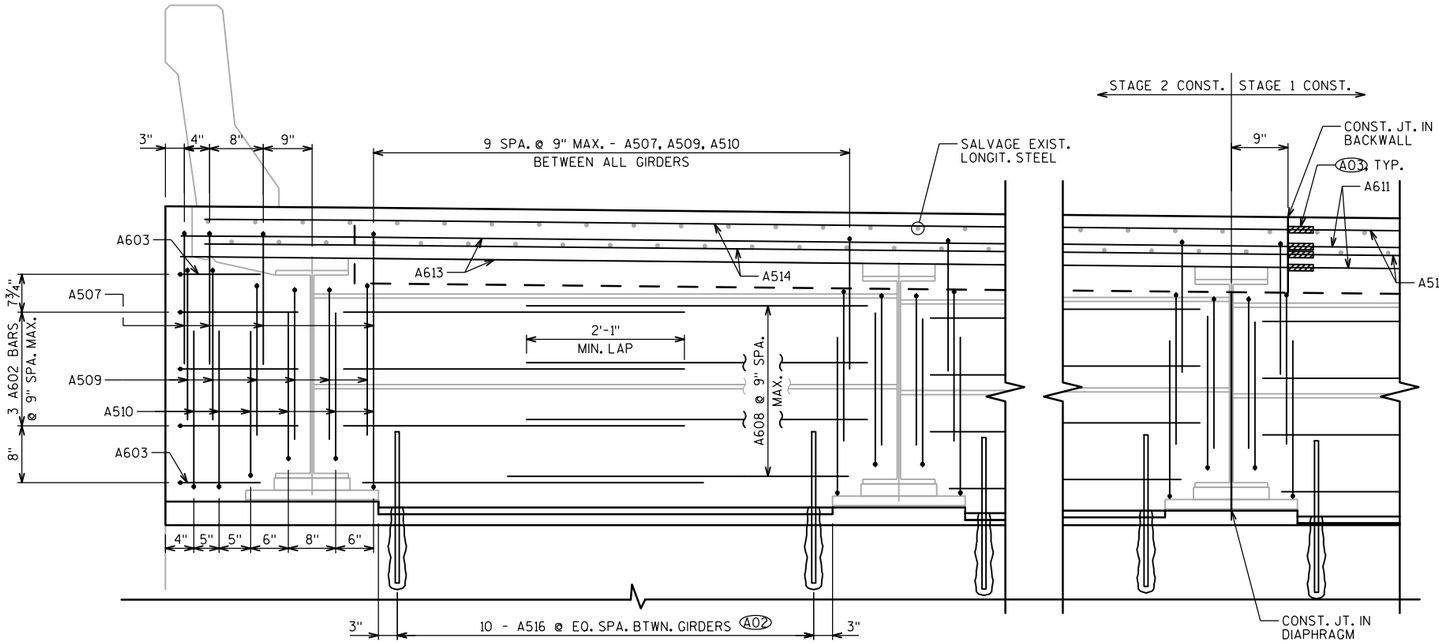
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WEST ABUTMENT

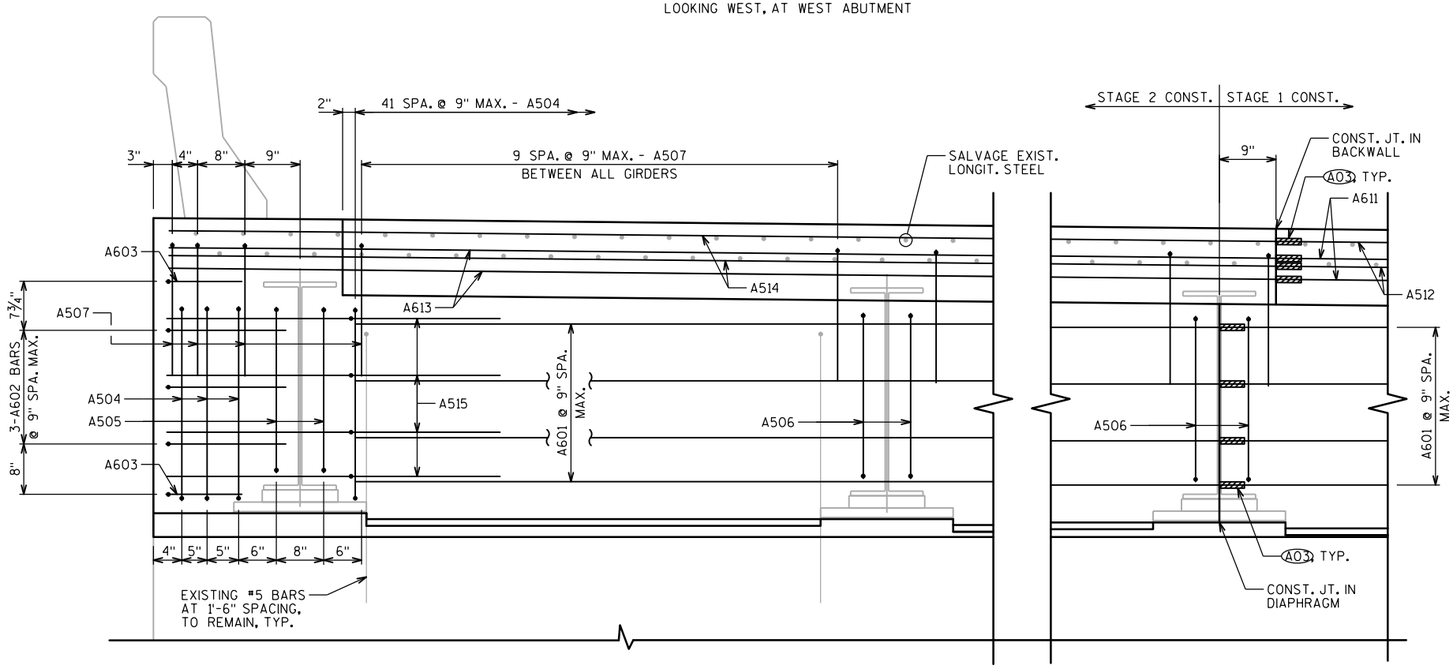
SHEET 5 OF 13

STATE PROJECT NUMBER
5490-00-62



END DIAPHRAGMS, FRONT SECTION

LOOKING WEST, AT WEST ABUTMENT

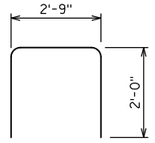


END DIAPHRAGMS, BACK SECTION

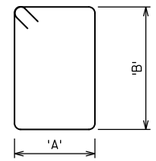
LOOKING WEST, AT WEST ABUTMENT

BILL OF BARS

	BAR MARK	COAT	NO. REQ'D. STAGE 1	NO. REQ'D. STAGE 2	NO. REQ'D. TOTAL	LENGTH	BENT	BAR SERIES	LOCATION
A03	A601	X	4	4	8	14'-10"			ABUT. DIAPH. BACK FACE - LONG.
	A602	X	3	3	6	6'-1"	X		ABUT. DIAPH. AT ENDS
	A603	X	2	2	4	5'-7"	X		ABUT. DIAPH. AT ENDS
	A504	X	24	24	48	9'-4"	X		ABUT. DIAPH. - STIRRUP
	A505	X	2	2	4	8'-4"	X		ABUT. DIAPH. - STIRRUP AT EXT. GIRDER
	A506	X	3	3	6	9'-8"	X		ABUT. DIAPH. - STIRRUP AT INT. GIRDER
	A507	X	23	23	46	6'-3"	X		ABUT. DIAPH. - VERT.
	A608	X	32	32	64	4'-9"			ABUT. DIAPH. FRONT FACE - LONG.
	A509	X	28	28	56	3'-5"	X		ABUT. DIAPH. - STIRRUP
	A510	X	28	28	56	4'-5"	X		ABUT. DIAPH. - STIRRUP
A03	A611	X	4	-	4	16'-7"			DECK TRANS.
A03	A512	X	13	-	13	16'-7"			DECK TRANS.
A03	A613	X	-	4	4	18'-1"			DECK TRANS.
A03	A514	X	-	13	13	18'-1"			DECK TRANS.
	A515	X	4	4	8	4'-9"	X		ABUT. DIAPH. - BACK FACE
A02	A516	X	20	20	40	2'-0"			ABUT. DIAPH. - DOWEL
A03	A617	X	4	4	8	17'-4"			ABUT. DIAPH. - LONG

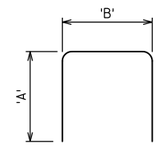


A602, A603



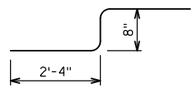
BAR MARK	DIMENSION 'A'	DIMENSION 'B'
A504	1'-10"	2'-6"
A505	1'-8"	2'-2"
A506	2'-4"	2'-2"

A504, A505, A506



BAR MARK	DIMENSION 'A'	DIMENSION 'B'
A507	2'-0"	2'-6"
A509	1'-6"	8"
A510	2'-0"	8"

A507, A509, A510



A515

LEGEND

A02 ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-0"

A03 BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS. SEE "EAST ABUTMETNT JOINT REPLACEMENT (2 OF 3)" SHEET FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

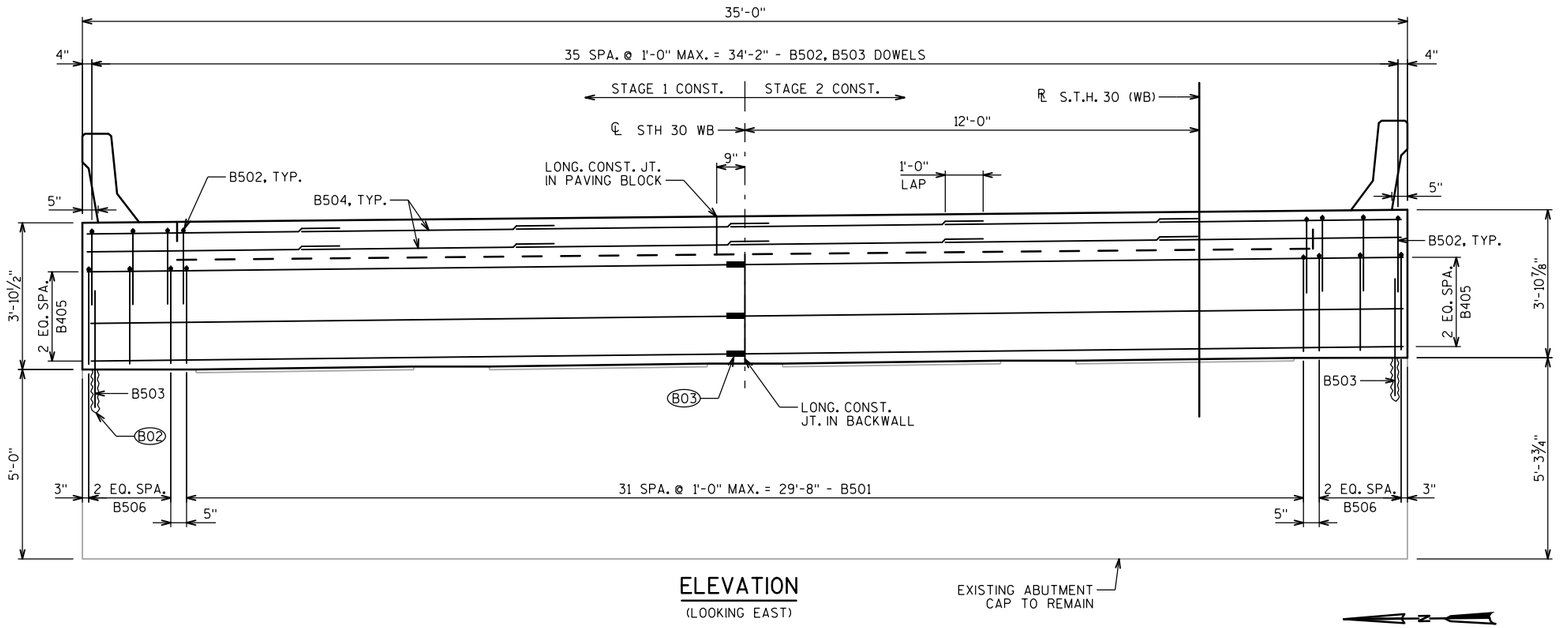
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WEST ABUTMENT DIAPHRAGM DETAILS

SHEET 6 OF 13

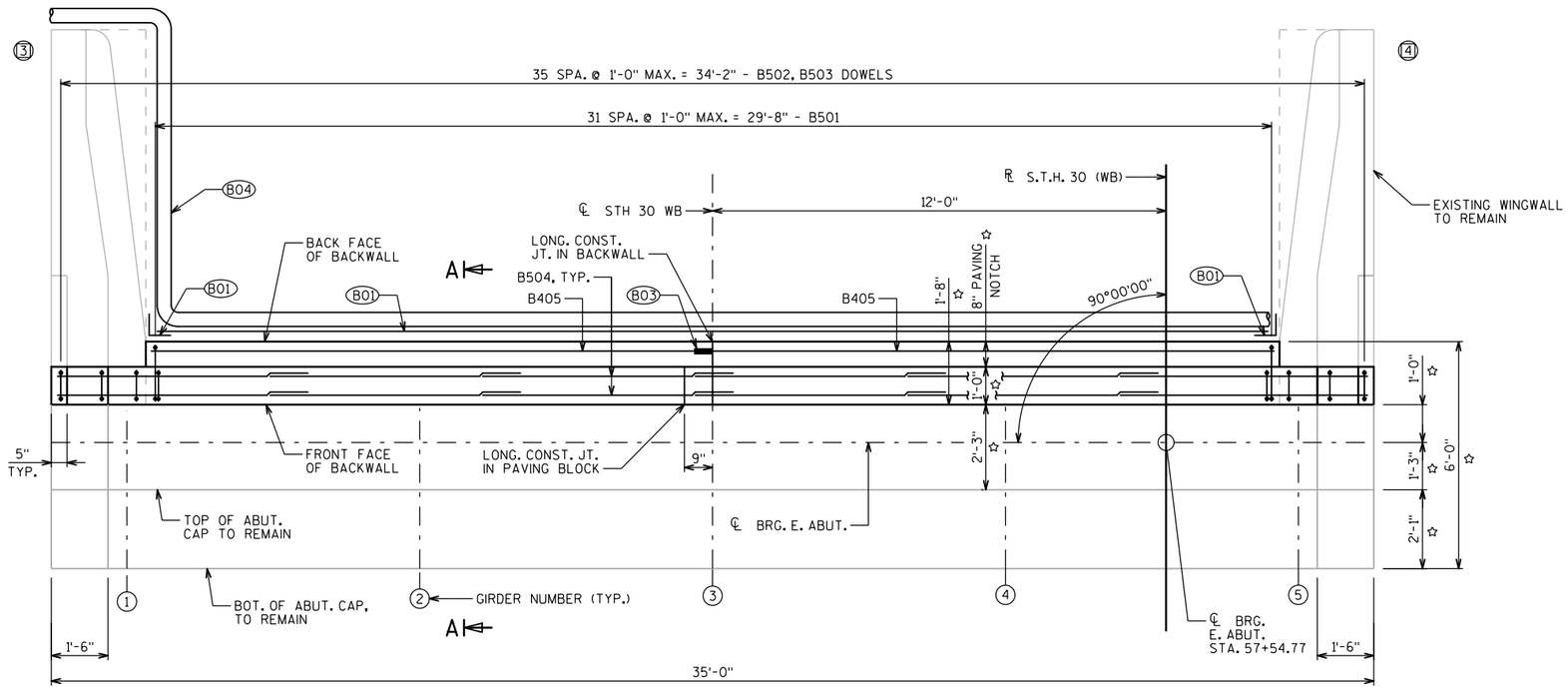
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PLOT SCALE : 2:1

STATE PROJECT NUMBER
5490-00-62



ELEVATION
(LOOKING EAST)

EXISTING ABUTMENT CAP TO REMAIN



EAST ABUTMENT PLAN

NOTES

FOR SECTION A-A SEE "EAST ABUTMENT DETAILS" SHEET.

FOR PARAPET DETAILS, SEE "PARAPET DETAILS" SHEET.

EXISTING WINGWALLS TO REMAIN.

LEGEND

- (B01) 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENTS.
- (B02) ADHESIVE ANCHORS: NO. 5 BARS FOR B503, EMBED 1'-0"
- (B03) BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS. SEE "EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)" SHEET FOR DETAILS.
- (B04) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE "EAST ABUTMENT DETAILS" SHEET FOR RODENT SHIELD DETAILS.
- ☆ PER EXISTING STRUCTURE PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.
- (X) WING NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

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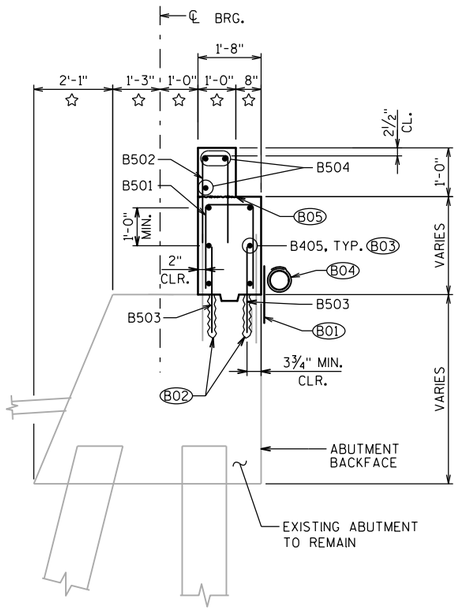
EAST ABUTMENT

SHEET 7 OF 13

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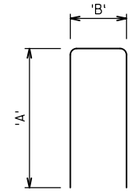
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SECTION A-A

BILL OF BARS

BAR MARK	COAT	NO. REQ'D. STAGE 1	NO. REQ'D. STAGE 2	NO. REQ'D. TOTAL	LENGTH	BENT	SERIES	LOCATION
B501	X	16	16	32	6'-1"	X		BACKWALL - VERT.
B502	X	17	19	36	4'-5"	X		PAVING BLOCK - VERT.
(B02) B503	X	36	36	72	2'-6"			BACKWALL - VERT. DOWEL
B504	X	9	9	18	6'-8"			PAVING BLOCK - HORIZ.
(B03) B405	X	6	6	12	17'-4"			BACKWALL - HORIZ.
B506	X	3	3	6	5'-5"	X		BACKWALL - VERT.



BAR MARK	DIMENSION 'A'	DIMENSION 'B'
B501	2'-6"	1'-4"
B502	2'-0"	0'-8"
B506	2'-6"	0'-8"

NOTES

FOR ABUTMENT ELEVATION AND PLAN, SEE "EAST ABUTMENT" SHEET.

LEGEND

(B01) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENTS.

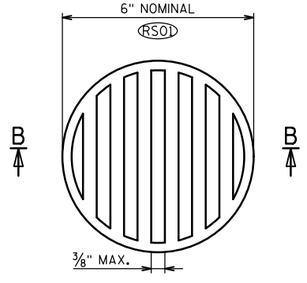
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NO. 5 BARS FOR B503, EMBED 1'-0"

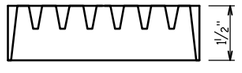
(B03) BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS. SEE "EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)" SHEET FOR DETAILS.

(B04) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

(B05) CONST. JT. - STRIKE OFF AND LEAVE ROUGH.

☆ PER EXISTING STRUCTURE PLANS. MATCH EXISTING ELEVATIONS AND DIMENSIONS.





SECTION B-B

RODENT SHIELD DETAIL

(RS01) DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

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STRUCTURE B-13-206

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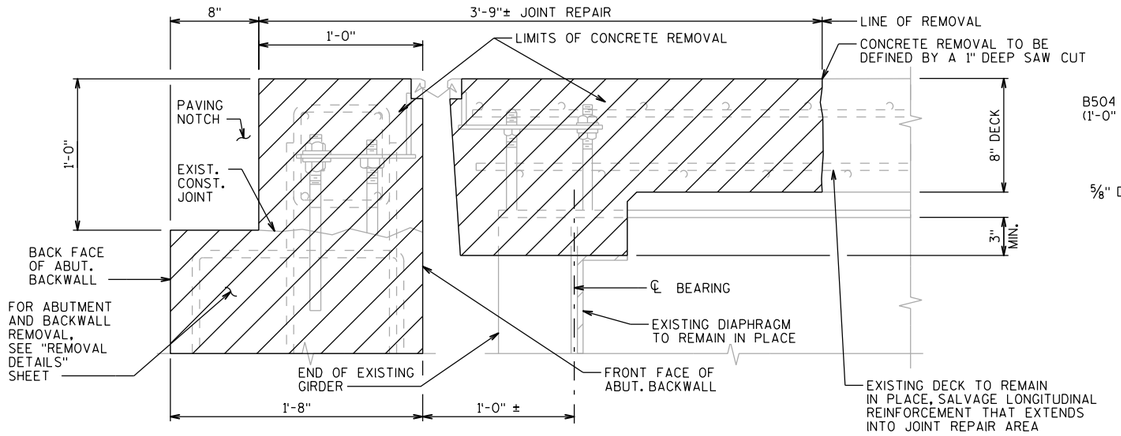
EAST ABUTMENT DETAILS

SHEET 8 OF 13

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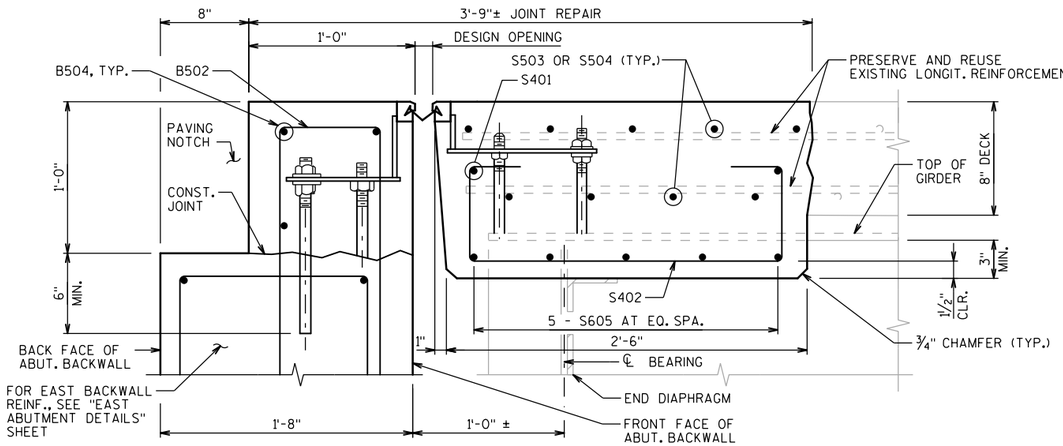
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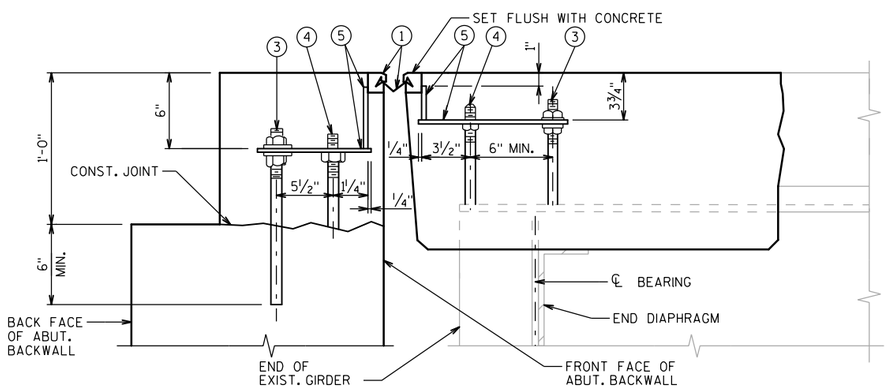
EXISTING SECTION AT EAST ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



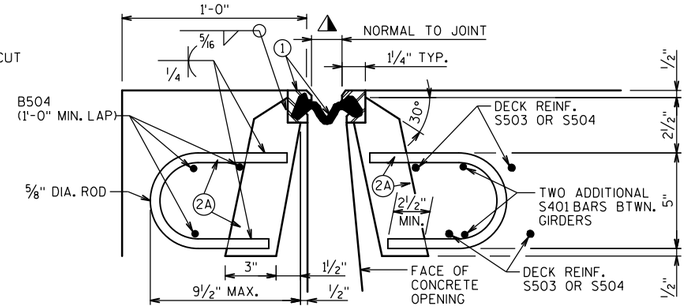
PROPOSED SECTION AT EAST ABUTMENT (REINFORCEMENT DETAILS)

NORMAL TO ℄ SUBSTRUCTURE



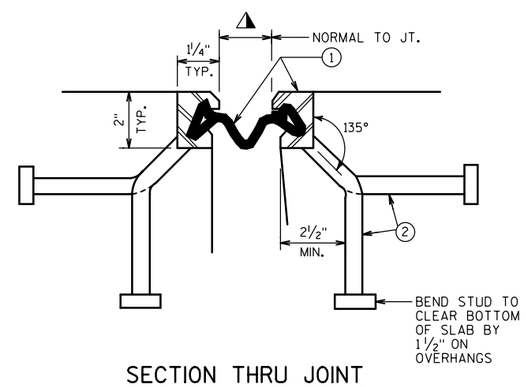
PROPOSED SECTION AT EAST ABUTMENT (EXPANSION DEVICE COMPONENTS)

NORMAL TO ℄ SUBSTRUCTURE



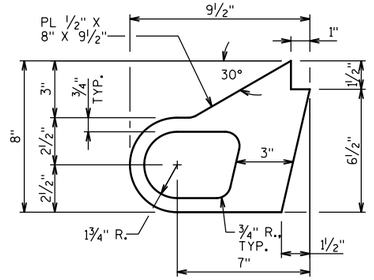
SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS
DIMENSIONS TAKEN NORMAL TO ℄ SUBSTRUCTURE



SECTION THRU JOINT

EXTERIOR GIRDER TO PARAPETS



ALTERNATE STRIP SEAL ANCHOR

EXPANSION JOINT NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ALL MATERIAL IN THE EXPANSION JOINT ASSMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

LEGEND

(1) NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.

(2) STUDS ⅝" DIA. x 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. FOR STEEL GIRDERS WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

(4) ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" x ½" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.

⚠ SET JOINT OPENING AT 1¾".

NOTES

REFER TO "EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)" AND "EAST ABUTMENT JOINT REPLACEMENT (3 OF 3)" SHEETS FOR ADDITIONAL INFORMATION AND DETAILS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

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EAST ABUTMENT JOINT REPLACEMENT (1 OF 3)

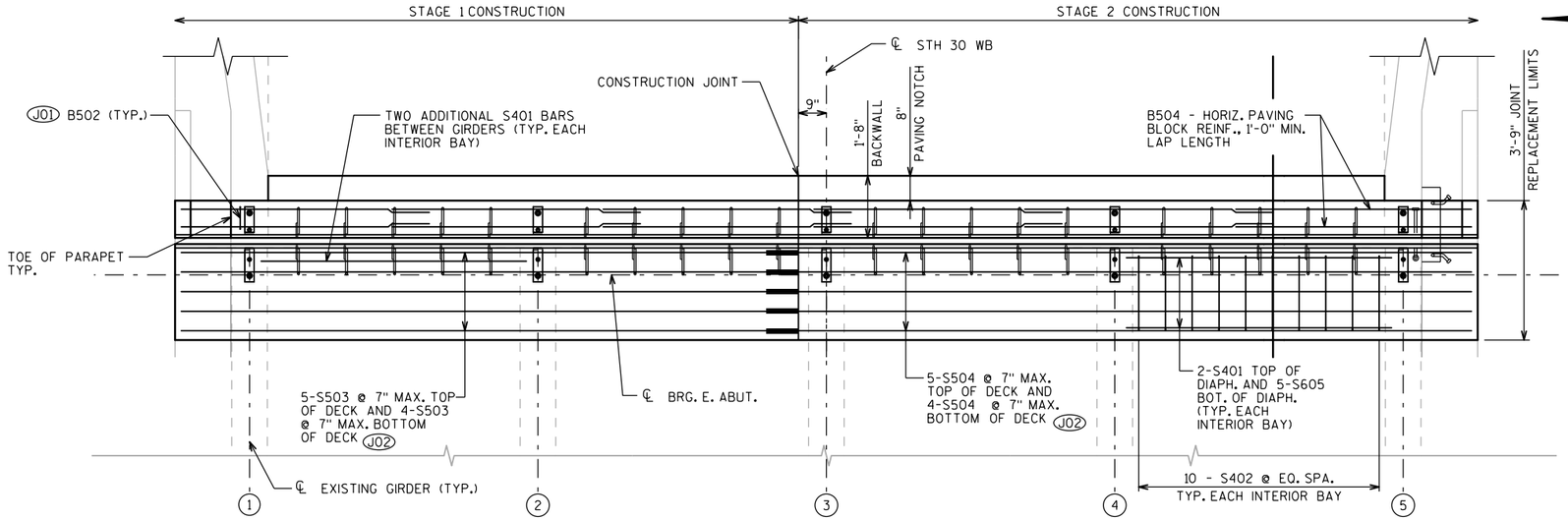
SHEET 9 OF 13

8

8

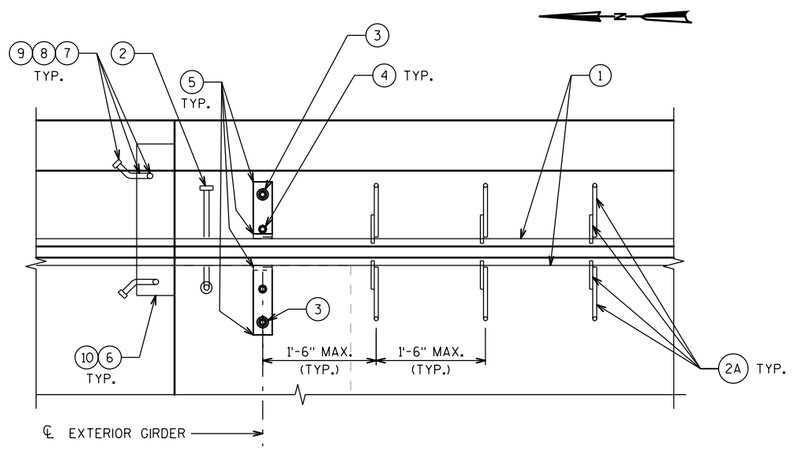
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STATE PROJECT NUMBER
5490-00-62

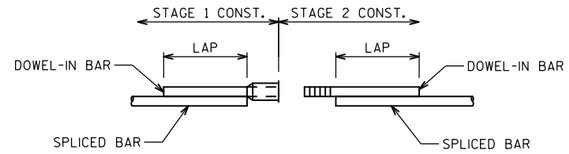


EAST ABUTMENT EXPANSION JOINT REPLACEMENT

(EXISTING REINFORCEMENT NOT SHOWN FOR CLARITY)

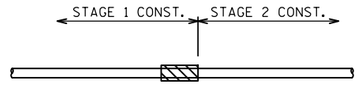


PART PLAN



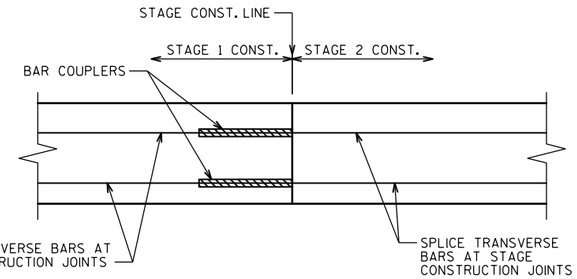
DOWEL BAR COUPLER

STAGE 2 DOWEL SCREWS INTO COUPLER PLACED IN STAGE 1



ONE-PIECE THREADED COUPLER

BAR COUPLER ALTERNATIVES



SECTION THRU CONST. JT.

LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.
2. STUDS 5/8" DIA. x 6 3/8" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. 1/2" THICK ANCHOR PLATE WITH 5/8" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PL. TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. 3/4" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. FOR STEEL GIRDERS WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. 3/4" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" x 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1 1/2" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
6. GALVANIZED PLATE 3/8" X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
7. 3/4"ø X 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
8. 3/4"ø X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. 3/4"ø X 2 1/4" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

J01 SPACE AT 1'-0" MAX. AND TO AVOID EXPANSION JOINT HARDWARE.

J02 BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.

NOTES

REFER TO "EAST ABUTMENT JOINT REPLACEMENT (1 OF 3)" AND "EAST ABUTMENT JOINT REPLACEMENT (3 OF 3)" SHEETS FOR ADDITIONAL INFORMATION AND DETAILS.

FOR PARAPET REINFORCEMENT NOT SHOWN, SEE "PARAPET DETAILS" SHEET.

FOR DOWEL BAR COUPLERS, ALL DOWEL BARS SHALL BE LAPPED AND TIED TO THE REINFORCEMENT BARS.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

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EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)

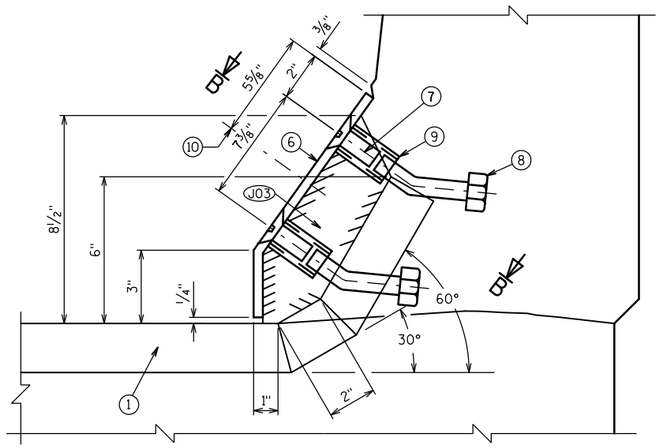
SHEET 10 OF 13

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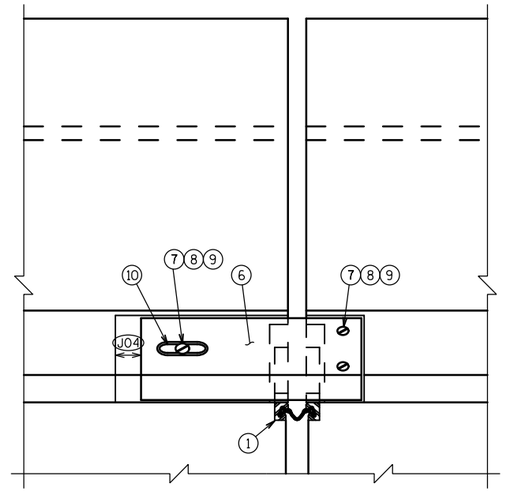
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STATE PROJECT NUMBER
5490-00-62



SECTION A-A



VIEW OF PARAPET PLATE FROM ROADWAY

LEGEND

(1) NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.

(2) STUDS 5/8" DIA. x 6 3/8" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(6) GALVANIZED PLATE 3/8" X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.

(7) 3/4"ø X 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.

(8) 3/4"ø X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

(9) 3/4"ø X 2 1/4" GALVANIZED THREADED COUPLING.

(10) 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

(J02) BAR COUPLERS REQUIRED. BAR LENGTH COMPUTED TO THE CONSTRUCTION JOINT BETWEEN CONSTRUCTION STAGES AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.

(J03) BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

(J04) JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".

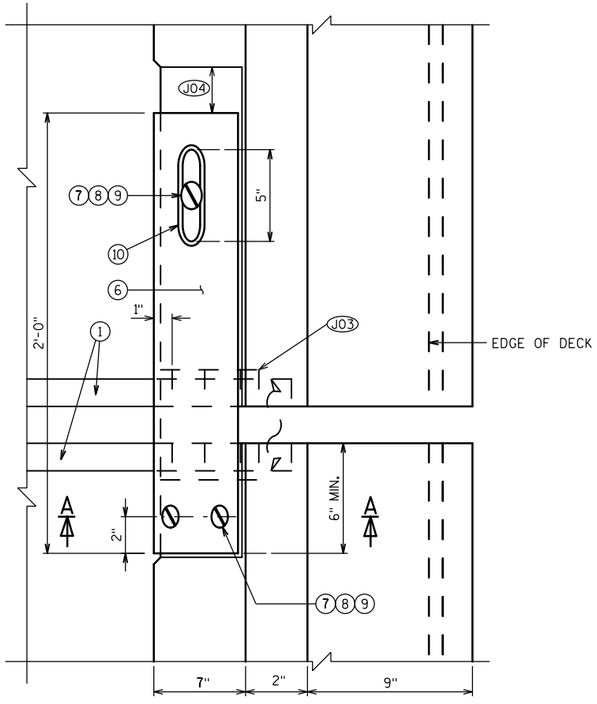
NOTES

SEE "EAST ABUTMENT JOINT REPLACEMENT (1 OF 3)", AND "EAST ABUTMENT JOINT REPLACEMENT (2 OF 3)" FOR ADDITIONAL INFORMATION AND DETAILS.

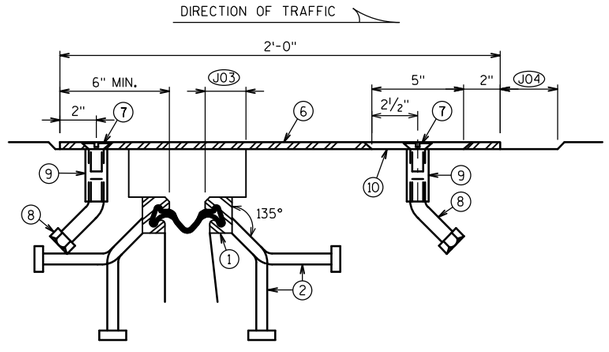
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

BILL OF BARS

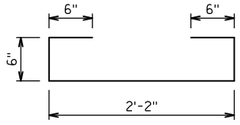
	BAR MARK	COAT	NO. REQ'D. STAGE 1	NO. REQ'D. STAGE 2	NO. REQ'D. TOTAL	LENGTH	BENT	SERIES	LOCATION
	S401	X	8	8	16	7'-1"			DIAPHRAGM - TRANS.
	S402	X	20	20	40	3'-10"	X		DIAPHRAGM - STIRRUP
(J02)	S503	X	9	-	9	16'-7"			DECK - TRANS. STAGE 1
(J02)	S504	X	-	9	9	18'-1"			DECK - TRANS. STAGE 2
	S605	X	10	10	20	7'-1"			DIAPHRAGM - TRANS. BOT.



PLAN



SECTION B-B



S402

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

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EAST ABUTMENT JOINT REPLACEMENT (3 OF 3)

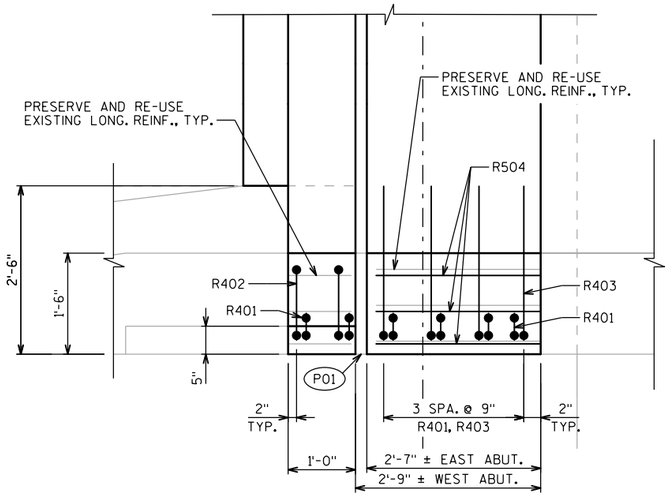
SHEET 11 OF 13

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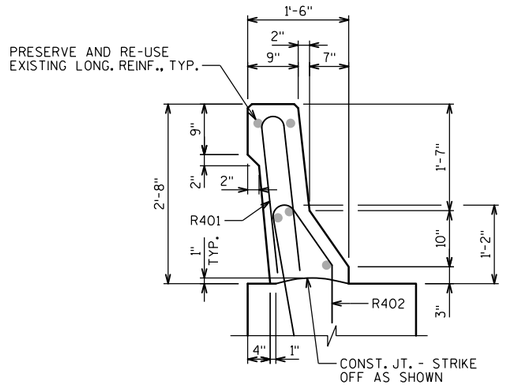
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STATE PROJECT NUMBER
5490-00-62

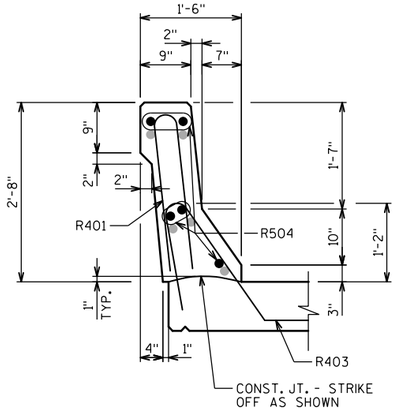


PARAPET PLAN

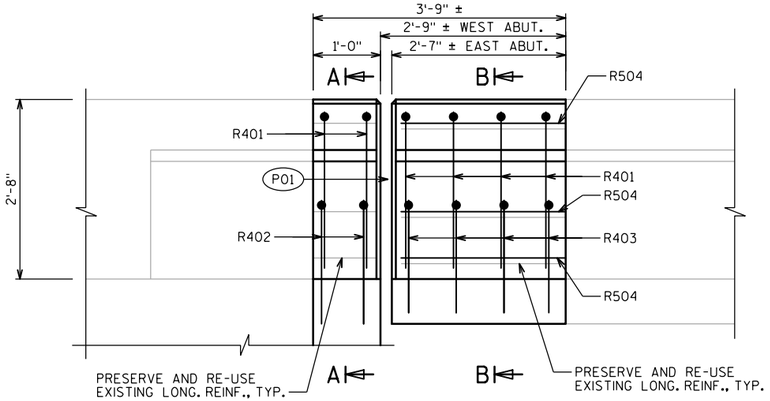
NORTHEAST CORNER SHOWN, OTHER CORNERS SIMILAR



SECTION A-A



SECTION B-B

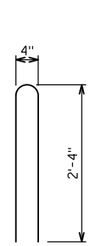


OUTSIDE ELEVATION

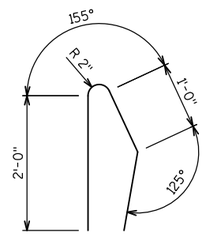
NORTHEAST CORNER SHOWN, OTHER CORNERS SIMILAR

BILL OF BARS

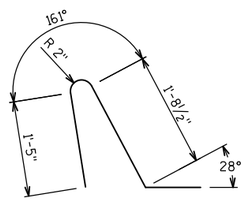
BAR MARK	COAT	NO. REQ'D. STAGE 1	NO. REQ'D. STAGE 2	NO. REQ'D. TOTAL	LENGTH	BENT	SERIES	LOCATION
R401	X	12	12	24	4'-10"	X		PARAPET - VERT.
R402	X	4	4	8	4'-7"	X		PARAPET - VERT.
R403	X	8	8	16	4'-3"	X		PARAPET - VERT.
R504	X	10	10	20	2'-4"			PARAPET - HORIZ.



R401



R402



R403

LEGEND

(P01) NO OPEN JOINT AT WEST ABUTMENT

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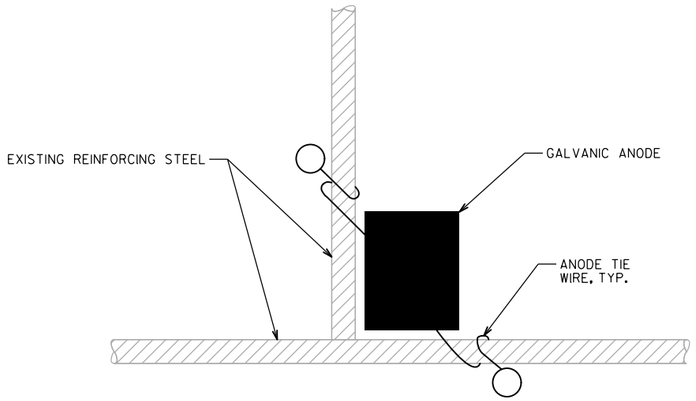
STRUCTURE B-13-206

DRAWN BY MSS | PLANS CK'D. HDA

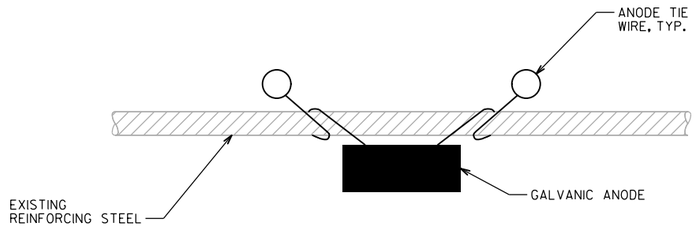
PARAPET DETAILS

SHEET 12 OF 13

STATE PROJECT NUMBER
5490-00-62

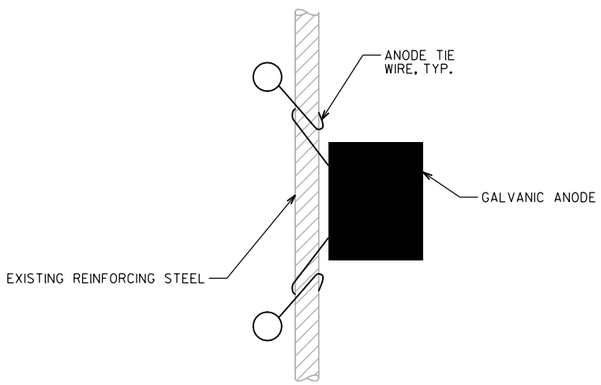


TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



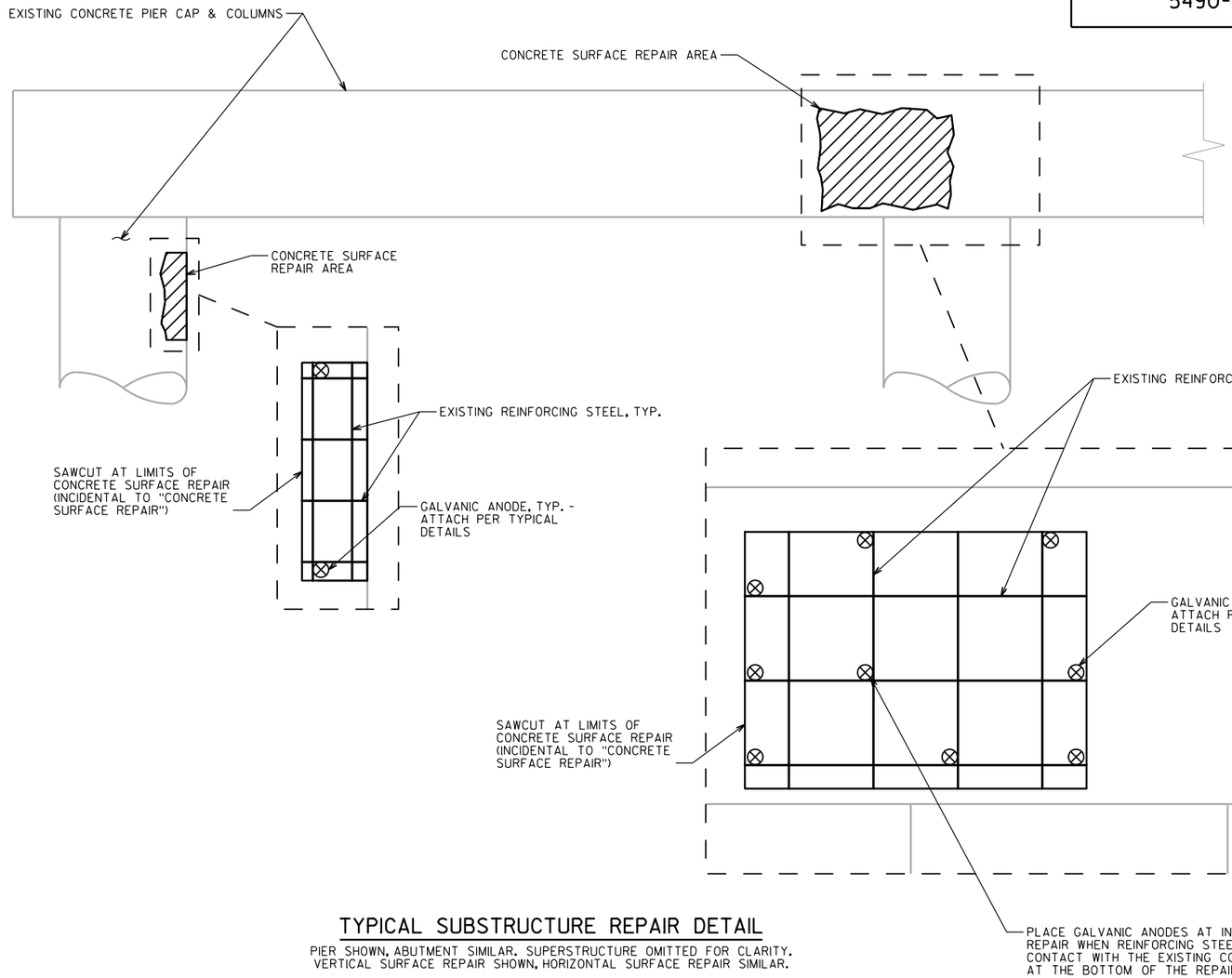
TYPICAL INSTALLATION BELOW BAR STEEL

(HORIZONTAL)



TYPICAL INSTALLATION BESIDE BAR STEEL

(VERTICAL)



TYPICAL SUBSTRUCTURE REPAIR DETAIL

PIER SHOWN, ABUTMENT SIMILAR. SUPERSTRUCTURE OMITTED FOR CLARITY.
VERTICAL SURFACE REPAIR SHOWN, HORIZONTAL SURFACE REPAIR SIMILAR.

NOTES

SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR DESCRIPTION, MATERIALS, CONSTRUCTION, MEASUREMENT AND PAYMENT INFORMATION.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL PRIOR TO INSTALLATION OF GALVANIC ANODES.

LOCATIONS OF GALVANIC ANODES SHOULD BE WITHIN 6" OF THE EDGE OF THE REPAIR AREA.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

PROVIDE GALVANIC ANODES IN CONCRETE SURFACE REPAIR AREAS IN SUBSTRUCTURE ONLY.

ESTIMATED ANODE QUANTITY ON PLANS IS BASED ON A MAXIMUM SPACING OF 24" AROUND PERIMETER OF CONCRETE SURFACE REPAIR AREA. PLACE ADDITIONAL ANODES AT THE INTERIOR OF REPAIRED AREA SO CENTER TO CENTER SPACING OF ANODES IS NOT GREATER THAN 24" IN ANY DIRECTION.

NO.	DATE	REVISION	BY

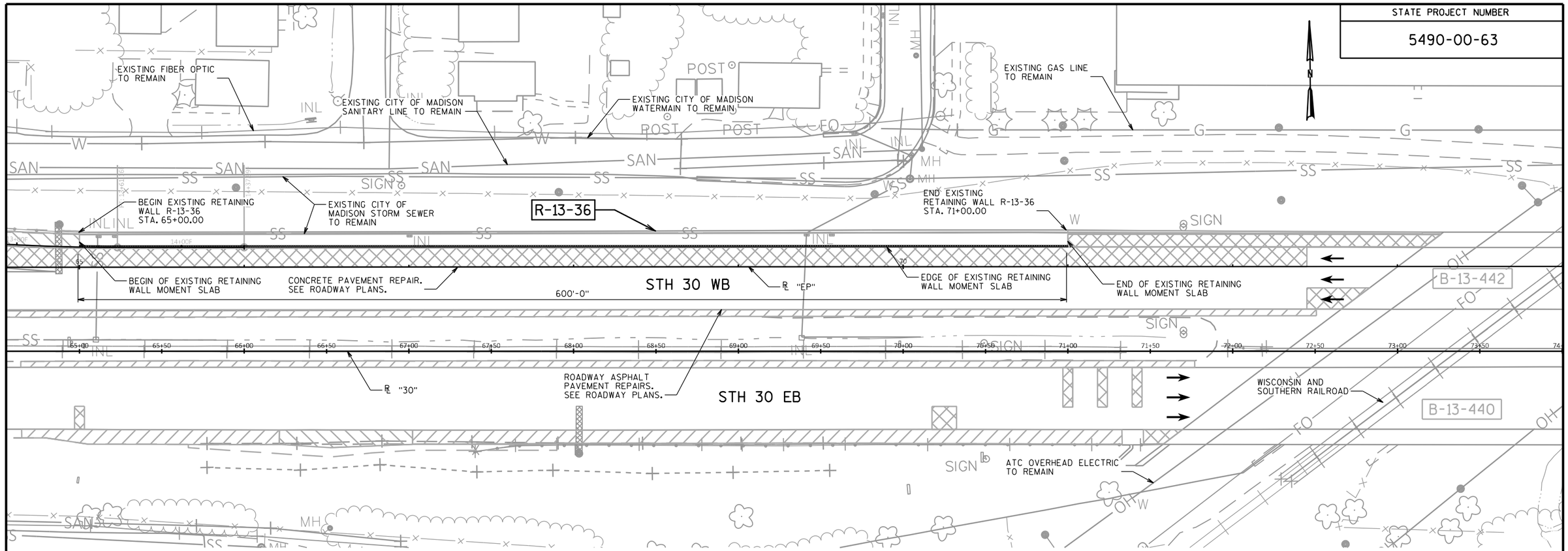
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-206

DRAWN BY	CVH	PLANS CK'D.	MSS

GALVANIC ANODES

SHEET 13 OF 13



STATE PROJECT NUMBER

5490-00-63

LIST OF DRAWINGS

1. GENERAL PLAN & QUANTITIES
2. GENERAL NOTES, REMOVAL & REPAIR DETAILS

MATERIAL PROPERTIES

CONCRETE MASONRY -
RAPID SETTING CONCRETE PATCH MATERIAL ..... f'c = 3,000 psi AT 3 HRS.
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	145
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	247
502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	467
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	430
SPV.0165.01	CONCRETE SURFACE REPAIR SPECIAL	SF	600
	NON-BID ITEMS		
	EXPANDED POLYSTYRENE	SIZE	1/2"

ALL ITEMS ARE CATEGORY 0020

LEGEND

→ TRAFFIC DIRECTION

WISCONSIN
ELIZABETH A. JELINEK
E-40123
MILWAUKEE
WI
7/26/21
PROFESSIONAL ENGINEER

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 12/28/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-36

RETAINING WALL ALONG STH 30 WB

COUNTY DANE — ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
EAJ	MSS	EAJ	MSS

GENERAL PLAN & QUANTITIES

SHEET 1 OF 2

231

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FILE NAME : \\madw00\ingrproj\73234\b1\R-13-36\cds\R-13-36_080101_gp.dgn PLOT DATE : 7/26/2021 11:51:29 AM PLOT BY : fgillen PLOT NAME : $FILE$ PLOT SCALE : 60:1

STATE PROJECT NUMBER
5490-00-63

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW REPAIR AREA AND VERTICAL SURFACE ADJACENT TO THE ROADWAY REPAIR. APPLY THE "PROTECTIVE SURFACE TREATMENT" TO VERTICAL FACE PRIOR TO PLACING POLYSTYRENE AND NEW ROADWAY PAVEMENT.

APPLY "PROTECTIVE SURFACE TREATMENT RESEAL" TO THE ENTIRE TOP SURFACE OF THE EXISTING MOMENT SLAB.

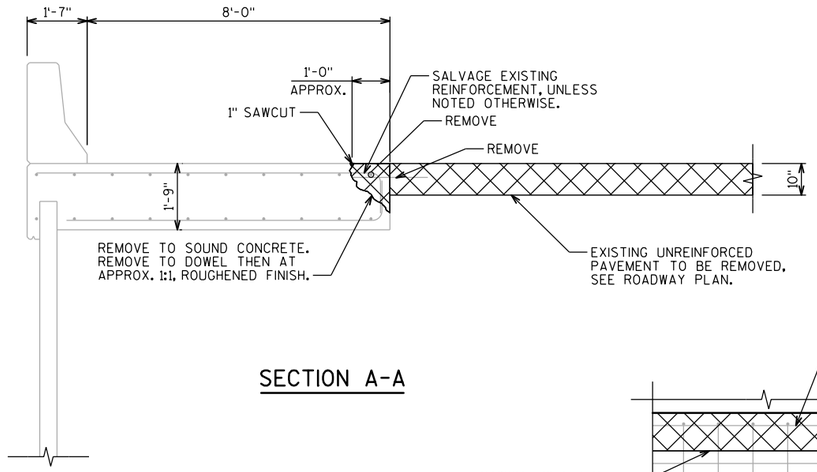
CLEAN AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES OF THE EXISTING PARAPET. PAID FOR UNDER "PIGMENTED SURFACE SEALER RESEAL".

"CONCRETE SURFACE REPAIR SPECIAL" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE WALL INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

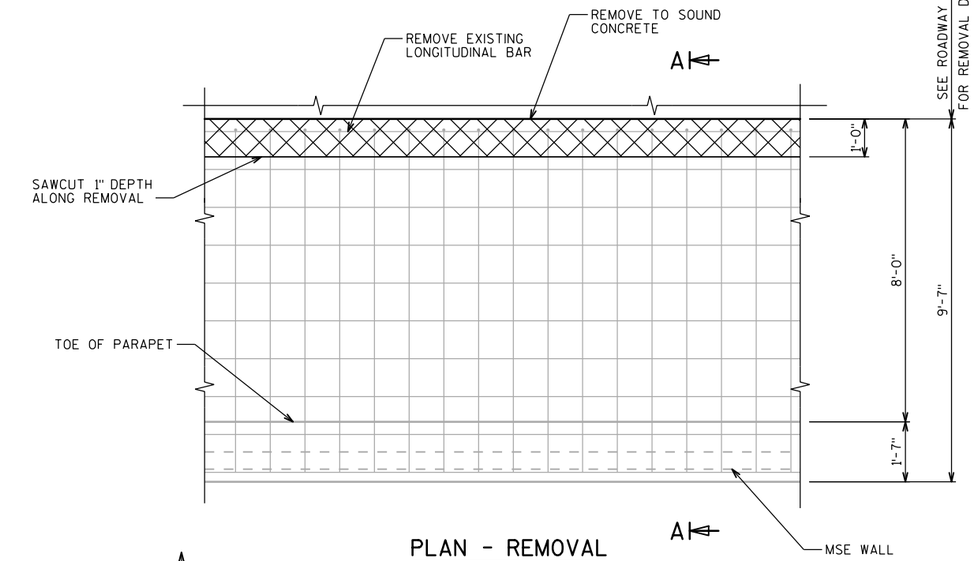
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

COORDINATE THE ROADWAY REPAIR WORK WITH THE MOMENT SLAB REPAIR WORK.

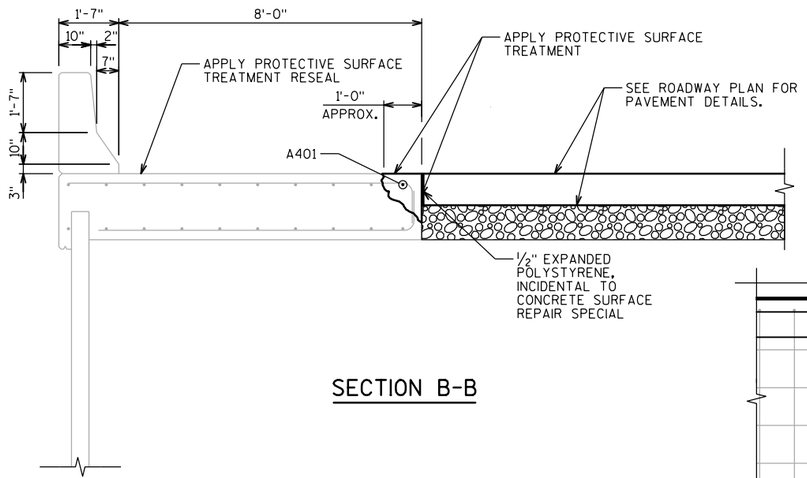
QUANTITIES ARE BASED UPON ASSUMED MAXIMUM LENGTH OF 45'-0" FOR A401 BARS AND MINIMUM LAP SPLICE LENGTH OF 2'-4".



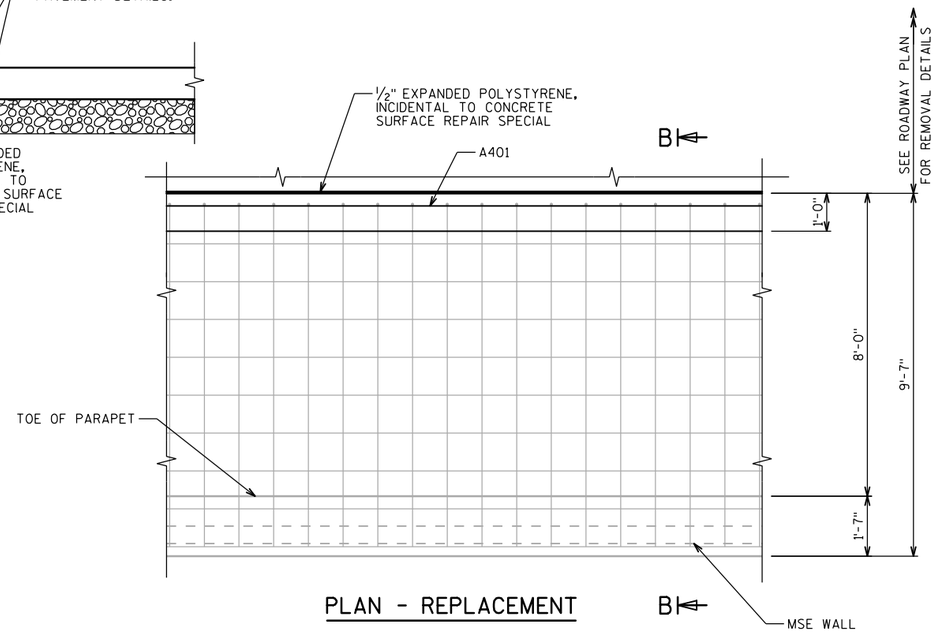
SECTION A-A



PLAN - REMOVAL



SECTION B-B



PLAN - REPLACEMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-36

DRAWN BY	EAJ	PLANS CK'D.	MSS

GENERAL NOTES, REMOVAL & REPAIR DETAILS

SHEET 2 OF 2

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FILE NAME : \\madw00\ingrproj\73234\b1\R-13-36\cds\R-13-36_080102_ts.dgn
PLOT DATE : 7/26/2021 11:51:32 AM PLOT BY : fgillen PLOT NAME : $FILE$ PLOT SCALE : 4:1

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0500 MARSH EXCAVATION (6)	205.0200 ROCK EXCAVATION (7)	REDUCED MARSH IN FILL (8) FACTOR 1.00	REDUCED EBS IN FILL (9) FACTOR 1.00	EXPANDED MARSH BACKFILL (10) FACTOR 1.00	EXPANDED EBS BACKFILL (11) FACTOR 1.00	EXPANDED ROCK (12) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1																			
QR-RAMP F	10+00/13+38	RL "F"	646	0	0	646	0	0	0	0	0	0	0	0	0	646	646	0	
DIVISION 1 SUBTOTAL			646	0	0	646	0	0	0	0	0	0	0	0	0	646	646	0	
DIVISION 2																			
QR-RAMP F/STH 30 AUX LANE	65+00.005/73+16.3	RL "30"	591	0	0	591	0	0	0	0	0	0	0	4	4	587	587	0	
DIVISION 2 SUBTOTAL			591	0	0	591	0	0	0	0	0	0	0	4	4	587	587	0	
DIVISION 3																			
QR-STH 30 AUX LANE/RAMP E	77+00/83+15.5	RL "30"	762	0	0	762	0	0	0	0	0	0	0	0	0	762	762	0	
DIVISION 3 SUBTOTAL			762	0	0	762	0	0	0	0	0	0	0	0	0	762	762	0	
DIVISION 4																			
QR-RAMP E	18+66.96/29+45	RL "E"	2,874	0	0	2,874	0	0	0	0	0	0	0	8	8	2,866	2,866	0	
DIVISION 4 SUBTOTAL			2,874	0	0	2,874	0	0	0	0	0	0	0	8	8	2,866	2,866	0	
DIVISION 5																			
QR-EB GUARDRAIL	65+66/177+04	RL "30"/"EB"	561	0	0	561	0	0	0	0	0	0	0	121	121	440	440	0	
DIVISION 5 SUBTOTAL			561	0	0	561	0	0	0	0	0	0	0	121	121	440	440	0	
DIVISION 6																			
QR-WB GUARDRAIL	59+21/147+16	RL/"30"/"WB"/"N"	375	0	0	375	0	0	0	0	0	0	0	38	38	337	337	0	
DIVISION 6 SUBTOTAL			375	0	0	375	0	0	0	0	0	0	0	38	38	337	337	0	
GRAND TOTAL			5,809	0	0	5,809	0	0	0	0	0	0	0	171	171	5,638	5,638	0	
TOTAL COMMON EXC			5,809																

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) MARSH EXCAVATION - TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL. ITEM NUMBER 205.0500

(7) ROCK EXCAVATION ITEM NUMBER 205.0200

(8) REDUCED MARSH IN FILL - EXCAVATED MARSH MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. MARSH IN FILL REDUCTION FACTOR = X.1X

(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = X.2X

(10) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. MARSH BACKFILL FACTOR = X.3X. ITEM NUMBER 208.1100

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = X.4X. ITEM NUMBER 208.1100

(12) EXPANDED ROCK FACTOR = X.5X

(13) EXPANDED FILL FACTOR = X.6X

DEPENDING ON SELECTIONS: **EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR**

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

(16) FILL TO BE PAID FOR UNDER ITEM 305.0110 BASE AGGREGATE DENSE 3/4-INCH.

Division 1 - RAMP F

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
10+00	1000.00	0.00	44.84	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10+50	1050.00	50.00	48.53	0.00	0.00	0.00	0.00	0.00	86	0	0	0	0	0	86	0	0	0	0	0	0	86
11+00	1100.00	50.00	62.09	0.00	0.00	0.00	0.00	0.00	102	0	0	0	0	0	188	0	0	0	0	0	0	188
11+50	1150.00	50.00	66.17	0.00	0.00	0.00	0.00	0.00	119	0	0	0	0	0	307	0	0	0	0	0	0	307
12+00	1200.00	50.00	59.03	0.00	0.00	0.00	0.00	0.00	116	0	0	0	0	0	423	0	0	0	0	0	0	423
12+50	1250.00	50.00	47.67	0.00	0.00	0.00	0.00	0.00	99	0	0	0	0	0	522	0	0	0	0	0	0	522
13+00	1300.00	50.00	35.59	0.00	0.00	0.00	0.00	0.00	77	0	0	0	0	0	599	0	0	0	0	0	0	599
13+38	1338.00	38.00	31.65	0.00	0.23	0.00	0.00	0.00	47	0	0	0	0	0	646	0	0	0	0	0	0	646
								TOTAL:	646		0										

Division 2 - Ramp F/STH 30 Aux Lane

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
65+00.005	6500.00	0.00	14.34	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65+50	6550.00	50.00	13.97	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	26	0	0	0	0	0	0	26
66+00	6600.00	50.00	14.00	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	52	0	0	0	0	0	0	52
66+50	6650.00	50.00	14.00	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	78	0	0	0	0	0	0	78
67+00	6700.00	50.00	14.08	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	104	0	0	0	0	0	0	104
67+50	6750.00	50.00	13.87	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	130	0	0	0	0	0	0	130
68+00	6800.00	50.00	14.05	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	156	0	0	0	0	0	0	156
68+50	6850.00	50.00	13.87	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	182	0	0	0	0	0	0	182
69+00	6900.00	50.00	13.82	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	208	0	0	0	0	0	0	208
69+50	6950.00	50.00	16.33	0.00	0.00	0.00	0.00	0.00	28	0	0	0	0	0	236	0	0	0	0	0	0	236
70+00	7000.00	50.00	21.57	0.00	0.00	0.00	0.00	0.00	35	0	0	0	0	0	271	0	0	0	0	0	0	271
70+50	7050.00	50.00	28.59	0.00	0.00	0.00	0.00	0.00	46	0	0	0	0	0	317	0	0	0	0	0	0	317
71+00	7100.00	50.00	30.83	0.00	2.33	0.00	0.00	0.00	55	0	2	0	0	0	372	2	0	0	0	0	0	370
71+50	7150.00	50.00	30.59	0.00	0.09	0.00	0.00	0.00	57	0	2	0	0	0	429	4	0	0	0	0	0	425
72+00	7200.00	50.00	31.15	0.00	0.01	0.00	0.00	0.00	57	0	0	0	0	0	486	4	0	0	0	0	0	482
72+50	7250.00	50.00	30.82	0.00	0.00	0.00	0.00	0.00	57	0	0	0	0	0	543	4	0	0	0	0	0	539
73+00	7300.00	50.00	13.14	0.00	0.00	0.00	0.00	0.00	41	0	0	0	0	0	584	4	0	0	0	0	0	580
73+16.3	7316.30	16.30	11.47	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	591	4	0	0	0	0	0	587
								TOTAL:	591		4										

Division 3 - STH 30 Aux Lane/Ramp E

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
77+00	7700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77+50	7750.00	50.00	30.24	0.00	0.00	0.00	0.00	0.00	28	0	0	0	0	0	28	0	0	0	0	0	0	28
78+00	7800.00	50.00	31.15	0.00	0.00	0.00	0.00	0.00	57	0	0	0	0	0	85	0	0	0	0	0	0	85
78+50	7850.00	50.00	31.99	0.00	0.00	0.00	0.00	0.00	58	0	0	0	0	0	143	0	0	0	0	0	0	143
79+00	7900.00	50.00	32.67	0.00	0.00	0.00	0.00	0.00	60	0	0	0	0	0	203	0	0	0	0	0	0	203
79+50	7950.00	50.00	31.56	0.00	0.00	0.00	0.00	0.00	59	0	0	0	0	0	262	0	0	0	0	0	0	262
80+00	8000.00	50.00	37.71	0.00	0.00	0.00	0.00	0.00	64	0	0	0	0	0	326	0	0	0	0	0	0	326
80+50	8050.00	50.00	35.01	0.00	0.00	0.00	0.00	0.00	67	0	0	0	0	0	393	0	0	0	0	0	0	393
81+00	8100.00	50.00	37.38	0.00	0.00	0.00	0.00	0.00	67	0	0	0	0	0	460	0	0	0	0	0	0	460
81+50	8150.00	50.00	36.87	0.00	0.00	0.00	0.00	0.00	69	0	0	0	0	0	529	0	0	0	0	0	0	529
82+00	8200.00	50.00	36.35	0.00	0.00	0.00	0.00	0.00	68	0	0	0	0	0	597	0	0	0	0	0	0	597
82+50	8250.00	50.00	38.20	0.00	0.00	0.00	0.00	0.00	69	0	0	0	0	0	666	0	0	0	0	0	0	666
83+00	8300.00	50.00	40.62	0.00	0.00	0.00	0.00	0.00	73	0	0	0	0	0	739	0	0	0	0	0	0	739
83+15.5	8315.50	15.50	40.84	0.00	0.00	0.00	0.00	0.00	23	0	0	0	0	0	762	0	0	0	0	0	0	762
								TOTAL:	762	0	0										

Division 4 - RAMP E

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
18+66.96	1866.96	0.00	55.35	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19+00	1900.00	33.04	57.90	0.00	0.12	0.00	0.00	0.00	69	0	0	0	0	0	69	0	0	0	0	0	0	69
19+50	1950.00	50.00	61.86	0.00	0.00	0.00	0.00	0.00	111	0	0	0	0	0	180	0	0	0	0	0	0	180
20+00	2000.00	50.00	63.67	0.00	0.00	0.00	0.00	0.00	116	0	0	0	0	0	296	0	0	0	0	0	0	296
20+50	2050.00	50.00	66.28	0.00	0.00	0.00	0.00	0.00	120	0	0	0	0	0	416	0	0	0	0	0	0	416
21+00	2100.00	50.00	70.21	0.00	0.00	0.00	0.00	0.00	126	0	0	0	0	0	542	0	0	0	0	0	0	542
21+50	2150.00	50.00	58.28	0.00	0.00	0.00	0.00	0.00	119	0	0	0	0	0	661	0	0	0	0	0	0	661
22+00	2200.00	50.00	58.68	0.00	0.00	0.00	0.00	0.00	108	0	0	0	0	0	769	0	0	0	0	0	0	769
22+50	2250.00	50.00	64.05	0.00	0.00	0.00	0.00	0.00	114	0	0	0	0	0	883	0	0	0	0	0	0	883
23+00	2300.00	50.00	61.42	0.00	1.14	0.00	0.00	0.00	116	0	1	0	0	0	999	1	0	0	0	0	0	998
23+50	2350.00	50.00	74.25	0.00	0.00	0.00	0.00	0.00	126	0	1	0	0	0	1,125	2	0	0	0	0	0	1,123
24+00	2400.00	50.00	77.35	0.00	0.00	0.00	0.00	0.00	140	0	0	0	0	0	1,265	2	0	0	0	0	0	1,263
24+12.88	2412.88	12.88	78.75	0.00	0.00	0.00	0.00	0.00	37	0	0	0	0	0	1,302	2	0	0	0	0	0	1,300
24+37.88	2437.88	25.00	80.99	0.00	0.00	0.00	0.00	0.00	74	0	0	0	0	0	1,376	2	0	0	0	0	0	1,374
24+50	2450.00	12.12	82.77	0.00	0.05	0.00	0.00	0.00	37	0	0	0	0	0	1,413	2	0	0	0	0	0	1,411
24+62.88	2462.88	12.88	84.68	0.00	0.33	0.00	0.00	0.00	40	0	0	0	0	0	1,453	2	0	0	0	0	0	1,451
25+00	2500.00	37.12	79.66	0.00	1.09	0.00	0.00	0.00	113	0	1	0	0	0	1,566	3	0	0	0	0	0	1,563
25+50	2550.00	50.00	72.21	0.00	1.92	0.00	0.00	0.00	141	0	3	0	0	0	1,707	6	0	0	0	0	0	1,701
26+00	2600.00	50.00	70.89	0.00	0.34	0.00	0.00	0.00	133	0	2	0	0	0	1,840	8	0	0	0	0	0	1,832
26+50	2650.00	50.00	81.82	0.00	0.00	0.00	0.00	0.00	141	0	0	0	0	0	1,981	8	0	0	0	0	0	1,973
27+00	2700.00	50.00	85.73	0.00	0.00	0.00	0.00	0.00	155	0	0	0	0	0	2,136	8	0	0	0	0	0	2,128
27+50	2750.00	50.00	84.23	0.00	0.00	0.00	0.00	0.00	157	0	0	0	0	0	2,293	8	0	0	0	0	0	2,285
28+00	2800.00	50.00	73.62	0.00	0.00	0.00	0.00	0.00	146	0	0	0	0	0	2,439	8	0	0	0	0	0	2,431
28+50	2850.00	50.00	92.13	0.00	0.00	0.00	0.00	0.00	153	0	0	0	0	0	2,592	8	0	0	0	0	0	2,584
29+00	2900.00	50.00	62.98	0.00	0.00	0.00	0.00	0.00	144	0	0	0	0	0	2,736	8	0	0	0	0	0	2,728
29+45	2945.00	45.00	102.71	0.00	0.00	0.00	0.00	0.00	138	0	0	0	0	0	2,874	8	0	0	0	0	0	2,866
									TOTAL: 2,874		8											

Division 5 - EB GUARDRAIL

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT 1.00	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00	EXPANDED ROCK 1.00	EXPANDED EBS BACKFILL 1.00	REDUCED MARSH IN FILL 1.00
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6
65+66	6566.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
66+00	6600.00	34.00	0.13	0.00	0.00	0.00	0.00	0.00	0	0	1	0	0	0	0	1	0	0	0	0
66+21	6621.00	21.00	1.07	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	1	0	0	0	0
66+52	6652.00	31.00	23.73	0.00	0.93	0.00	0.00	0.00	14	0	1	0	0	0	14	2	0	0	0	0
66+77	6677.00	25.00	20.93	0.00	0.97	0.00	0.00	0.00	21	0	1	0	0	0	35	3	0	0	0	0
67+00	6700.00	23.00	18.11	0.00	0.90	0.00	0.00	0.00	17	0	1	0	0	0	52	4	0	0	0	0
67+02	6702.00	2.00	18.02	0.00	0.89	0.00	0.00	0.00	1	0	0	0	0	0	53	4	0	0	0	0
67+50	6750.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0	1	0	0	0	69	5	0	0	0	0
67+90	6790.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	69	5	0	0	0	0
88+50	8850.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0	0	0	0	0	0	69	5	0	0	0	0
89+00	8900.00	50.00	27.29	0.00	0.93	0.00	0.00	0.00	25	0	1	0	0	0	94	6	0	0	0	0
89+22	8922.00	22.00	24.29	0.00	13.07	0.00	0.00	0.00	21	0	6	0	0	0	115	12	0	0	0	0
89+47	8947.00	25.00	22.15	0.00	0.97	0.00	0.00	0.00	22	0	6	0	0	0	137	18	0	0	0	0
89+50	8950.00	3.00	21.58	0.00	0.95	0.00	0.00	0.00	2	0	0	0	0	0	139	18	0	0	0	0
89+72	8972.00	22.00	18.83	0.00	0.79	0.00	0.00	0.00	16	0	1	0	0	0	155	19	0	0	0	0
109+00	10900.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	155	19	0	0	0	0
109+98	10998.00	98.00	1.69	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	159	19	0	0	0	0
110+00	11000.00	2.00	1.60	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	159	19	0	0	0	0
110+23	11023.00	23.00	1.63	0.00	0.43	0.00	0.00	0.00	1	0	0	0	0	0	160	19	0	0	0	0
110+41	11041.00	18.00	0.23	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	161	19	0	0	0	0
110+48	11048.00	7.00	0.51	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	161	19	0	0	0	0
110+50	11050.00	2.00	1.43	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	161	19	0	0	0	0
111+00	11100.00	50.00	0.61	0.00	0.08	0.00	0.00	0.00	2	0	0	0	0	0	163	19	0	0	0	0
111+50	11150.00	50.00	1.43	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0	165	19	0	0	0	0
112+00	11200.00	50.00	0.74	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0	167	19	0	0	0	0
112+05	11205.00	5.00	1.79	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	167	19	0	0	0	0
120+31	12031.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0	0	0	0	0	0	167	19	0	0	0	0
120+80	12080.00	49.00	17.28	0.00	0.83	0.00	0.00	0.00	16	0	1	0	0	0	183	20	0	0	0	0
121+31	12131.00	51.00	16.50	0.00	0.00	0.00	0.00	0.00	32	0	1	0	0	0	215	21	0	0	0	0
121+56	12156.00	25.00	17.96	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0	0	231	21	0	0	0	0
122+00	12200.00	44.00	0.22	0.00	0.87	0.00	0.00	0.00	15	0	1	0	0	0	246	22	0	0	0	0
122+50	12250.00	50.00	0.22	0.00	0.00	0.00	0.00	0.00	0	0	1	0	0	0	246	23	0	0	0	0
123+00	12300.00	50.00	1.97	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0	248	23	0	0	0	0
123+23	12323.00	23.00	0.94	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	249	23	0	0	0	0
133+59	13359.00	21.00	0.03	0.00	0.02	0.00	0.00	0.00	0	0	0	0	0	0	249	23	0	0	0	0
134+00	13400.00	41.00	0.00	0.00	0.40	0.00	0.00	0.00	0	0	0	0	0	0	249	23	0	0	0	0
134+11	13411.00	11.00	0.00	0.00	0.55	0.00	0.00	0.00	0	0	0	0	0	0	249	23	0	0	0	0
134+50	13450.00	39.00	23	0.00	37.02	0.00	0.00	0.00	17	0	27	0	0	0	266	50	0	0	0	0
134+75	13475.00	25.00	24.09	0.00	0.00	0.00	0.00	0.00	22	0	17	0	0	0	288	67	0	0	0	0
135+00	13500.00	25.00	20.75	0.00	0.00	0.00	0.00	0.00	21	0	0	0	0	0	309	67	0	0	0	0
142+20	14220.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0	0	0	0	0	0	309	67	0	0	0	0
142+50	14250.00	30.00	0.00	0.00	0.46	0.00	0.00	0.00	0	0	1	0	0	0	309	68	0	0	0	0
142+59	14259.00	9.00	0.00	0.00	1.23	0.00	0.00	0.00	0	0	0	0	0	0	309	68	0	0	0	0
144+67	14467.00	208.00	0.00	0.00	0.91	0.00	0.00	0.00	0	0	8	0	0	0	309	76	0	0	0	0
145+00	14500.00	33.00	0.00	0.00	1.23	0.00	0.00	0.00	0	0	1	0	0	0	309	77	0	0	0	0
145+17	14517.00	17.00	0.00	0.00	0.19	0.00	0.00	0.00	0	0	0	0	0	0	309	77	0	0	0	0
					SHEET 1 SUBTOTAL:				309		77									

(CONTINUED TO NEXT SHEET)

9

(CONTINUED FROM PREVIOUS SHEET)

Division 5 - EB GUARDRAIL (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6
142+20	14220.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0	0	0	0	0	0	309	67	0	0	0	0
142+50	14250.00	30.00	0.00	0.00	0.46	0.00	0.00	0.00	0	0	1	0	0	0	309	68	0	0	0	0
142+59	14259.00	9.00	0.00	0.00	1.23	0.00	0.00	0.00	0	0	0	0	0	0	309	68	0	0	0	0
144+67	14467.00	208.00	0.00	0.00	0.91	0.00	0.00	0.00	0	0	8	0	0	0	309	76	0	0	0	0
145+00	14500.00	33.00	0.00	0.00	1.23	0.00	0.00	0.00	0	0	1	0	0	0	309	77	0	0	0	0
145+17	14517.00	17.00	0.00	0.00	0.19	0.00	0.00	0.00	0	0	0	0	0	0	309	77	0	0	0	0
165+45	16545.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0	0	0	0	0	0	309	77	0	0	0	0
165+50	16550.00	5.00	0.00	0.00	1.28	0.00	0.00	0.00	0	0	0	0	0	0	309	77	0	0	0	0
165+96	16596.00	46.00	13.40	0.00	0.65	0.00	0.00	0.00	11	0	2	0	0	0	320	79	0	0	0	0
166+03	16603.00	7.00	13.51	0.00	2.48	0.00	0.00	0.00	3	0	0	0	0	0	323	79	0	0	0	0
166+24	16624.00	21.00	15.43	0.00	4.78	0.00	0.00	0.00	11	0	3	0	0	0	334	82	0	0	0	0
166+49	16649.00	25.00	17.60	0.00	0.96	0.00	0.00	0.00	15	0	3	0	0	0	349	85	0	0	0	0
166+74	16674.00	25.00	14.87	0.00	2.33	0.00	0.00	0.00	15	0	2	0	0	0	364	87	0	0	0	0
166+95	16695.00	21.00	15.80	0.00	0.61	0.00	0.00	0.00	12	0	1	0	0	0	376	88	0	0	0	0
167+25	16725.00	30.00	17.64	0.00	1.52	0.00	0.00	0.00	19	0	1	0	0	0	395	89	0	0	0	0
167+50	16750.00	25.00	15.68	0.00	1.51	0.00	0.00	0.00	15	0	1	0	0	0	410	90	0	0	0	0
167+75	16775.00	25.00	14.25	0.00	1.47	0.00	0.00	0.00	14	0	1	0	0	0	424	91	0	0	0	0
168+00	16800.00	25.00	0.00	0.00	1.21	0.00	0.00	0.00	7	0	1	0	0	0	431	92	0	0	0	0
168+50	16850.00	50.00	0.00	0.00	1.10	0.00	0.00	0.00	0	0	2	0	0	0	431	94	0	0	0	0
169+00	16900.00	50.00	0.00	0.00	1.56	0.00	0.00	0.00	0	0	2	0	0	0	431	96	0	0	0	0
169+18	16918.00	18.00	0.00	0.00	5.06	0.00	0.00	0.00	0	0	2	0	0	0	431	98	0	0	0	0
169+19	16919.00	1.00	0.00	0.00	3.10	0.00	0.00	0.00	0	0	0	0	0	0	431	98	0	0	0	0
174+73	17473.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0	0	0	0	0	0	431	98	0	0	0	0
174+83	17483.00	10.00	0.00	0.00	7.68	0.00	0.00	0.00	0	0	2	0	0	0	431	100	0	0	0	0
175+00	17500.00	17.00	0.00	0.00	4.70	0.00	0.00	0.00	0	0	4	0	0	0	431	104	0	0	0	0
175+50	17550.00	50.00	33.10	0.00	1.74	0.00	0.00	0.00	31	0	6	0	0	0	462	110	0	0	0	0
175+66	17566.00	16.00	38.07	0.00	2.59	0.00	0.00	0.00	21	0	1	0	0	0	483	111	0	0	0	0
175+77	17577.00	11.00	39.00	0.00	3.10	0.00	0.00	0.00	16	0	1	0	0	0	499	112	0	0	0	0
175+91	17591.00	14.00	34.99	0.00	4.15	0.00	0.00	0.00	19	0	2	0	0	0	518	114	0	0	0	0
176+02	17602.00	11.00	31.65	0.00	0.71	0.00	0.00	0.00	14	0	1	0	0	0	532	115	0	0	0	0
176+16	17616.00	14.00	29.75	0.00	0.81	0.00	0.00	0.00	16	0	0	0	0	0	548	115	0	0	0	0
176+25	17625.00	9.00	12.95	0.00	1.93	0.00	0.00	0.00	7	0	0	0	0	0	555	115	0	0	0	0
176+50	17650.00	25.00	0.00	0.00	2.17	0.00	0.00	0.00	6	0	2	0	0	0	561	117	0	0	0	0
176+89	17689.00	39.00	0.00	0.00	1.60	0.00	0.00	0.00	0	0	3	0	0	0	561	120	0	0	0	0
177+00	17700.00	11.00	0.00	0.00	2.21	0.00	0.00	0.00	0	0	1	0	0	0	561	121	0	0	0	0
177+04	17704.00	4.00	0.00	0.00	3.05	0.00	0.00	0.00	0	0	0	0	0	0	561	121	0	0	0	0

SHEET 1 SUBTOTAL:	309	77
SHEET 2 SUBTOTAL:	252	54
TOTAL:	561	131

Division 6 - WB GUARDRAIL

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00 NOTE 4	EXPANDED ROCK 1.00	EXPANDED EBS BACKFILL 1.00 NOTE 5	REDUCED MARSH IN FILL 1.00 NOTE 6
									NOTE 1	NOTE 2	NOTE 3									
59+21	5921.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
60+00	6000.00	79.00	0.00	0.00	2.97	0.00	0.00	0.00	0	0	5	0	0	0	0	5	0	0	0	0
60+50	6050.00	50.00	0.00	0.00	1.12	0.00	0.00	0.00	0	0	4	0	0	0	0	9	0	0	0	0
60+96	6096.00	46.00	17.69	0.00	0.29	0.00	0.00	0.00	15	0	1	0	0	0	15	10	0	0	0	0
61+00	6100.00	4.00	18.98	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	18	10	0	0	0	0
61+21	6121.00	21.00	20.04	0.00	0.00	0.00	0.00	0.00	15	0	0	0	0	0	33	10	0	0	0	0
61+46	6146.00	25.00	20.47	0.00	0.12	0.00	0.00	0.00	19	0	0	0	0	0	52	10	0	0	0	0
61+50	6150.00	4.00	20.54	0.00	0.02	0.00	0.00	0.00	3	0	0	0	0	0	55	10	0	0	0	0
61+94	6194.00	44.00	16.70	0.00	0.04	0.00	0.00	0.00	30	0	0	0	0	0	85	10	0	0	0	0
62+00	6200.00	6.00	16.97	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	89	10	0	0	0	0
62+27	6227.00	27.00	13.86	0.00	0.00	0.00	0.00	0.00	15	0	0	0	0	0	104	10	0	0	0	0
101+45	10145.00	0.00	21.24	0.00	2.03	0.00	0.00	0.00	0	0	0	0	0	0	104	10	0	0	0	0
101+50	10150.00	5.00	21.14	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	108	10	0	0	0	0
101+70	10170.00	20.00	18.98	0.00	0.00	0.00	0.00	0.00	15	0	0	0	0	0	123	10	0	0	0	0
102+00	10200.00	30.00	19.50	0.00	2.03	0.00	0.00	0.00	21	0	1	0	0	0	144	11	0	0	0	0
102+50	10250.00	50.00	0.00	0.00	1.08	0.00	0.00	0.00	18	0	3	0	0	0	162	14	0	0	0	0
102+75	10275.00	25.00	0.00	0.00	0.61	0.00	0.00	0.00	0	0	1	0	0	0	162	15	0	0	0	0
109+19	10919.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	162	15	0	0	0	0
109+50	10950.00	31.00	0.54	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	163	15	0	0	0	0
110+00	11000.00	50.00	0.00	0.00	0.35	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
110+50	11050.00	50.00	0.00	0.00	0.10	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
111+00	11100.00	50.00	0.31	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
111+11	11111.00	11.00	0.28	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
111+24	11124.00	13.00	0.17	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
111+36	11136.00	12.00	0.86	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	163	15	0	0	0	0
111+61	11161.00	25.00	0.74	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	164	15	0	0	0	0
112+00	11200.00	39.00	0.39	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	165	15	0	0	0	0
112+25	11225.00	25.00	1.77	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	166	15	0	0	0	0
112+65	11265.00	40.00	0.00	0.00	0.30	0.00	0.00	0.00	1	0	0	0	0	0	167	15	0	0	0	0
								SHEET 1 SUBTOTAL:	167		15								

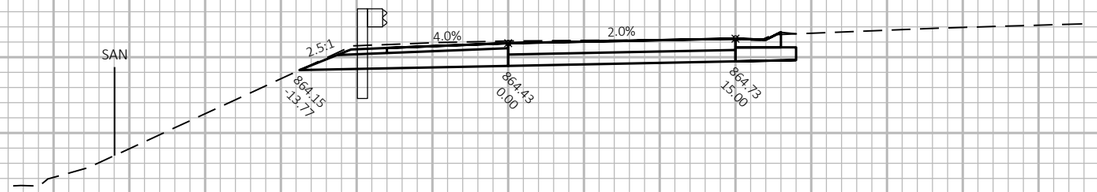
(CONTINUED TO NEXT SHEET)

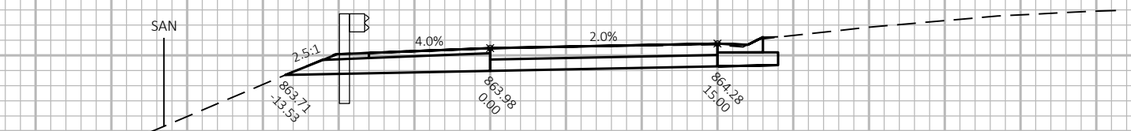
(CONTINUED FROM PREVIOUS SHEET)

Division 6 - WB GUARDRAIL (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6
122+00	12200.00	26.00	0.00	0.00	6.85	0.00	0.00	0.00	0	0	4	0	0	0	167	34	0	0	0	0
122+50	12250.00	50.00	2.24	0.00	0.00	0.00	0.00	0.00	2	0	6	0	0	0	169	40	0	0	0	0
123+00	12300.00	50.00	0.73	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	172	40	0	0	0	0
123+05	12305.00	5.00	18.98	0.00	1.88	0.00	0.00	0.00	2	0	0	0	0	0	174	40	0	0	0	0
123+30	12331.00	26.00	22.91	0.00	0.73	0.00	0.00	0.00	20	0	1	0	0	0	194	41	0	0	0	0
123+50	12350.00	19.00	24.33	0.00	1.19	0.00	0.00	0.00	17	0	1	0	0	0	211	42	0	0	0	0
123+56	12356.00	6.00	24.16	0.00	1.62	0.00	0.00	0.00	5	0	0	0	0	0	216	42	0	0	0	0
124+00	12400.00	44.00	0.93	0.00	0.02	0.00	0.00	0.00	20	0	1	0	0	0	236	43	0	0	0	0
124+50	12450.00	50.00	0.27	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	237	43	0	0	0	0
124+53	12453.00	3.00	0.34	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	237	43	0	0	0	0
124+53	12453.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	237	43	0	0	0	0
140+00	14000.00	23.00	16.59	0.00	0.80	0.00	0.00	0.00	14	0	1	0	0	0	251	44	0	0	0	0
140+02	14002.00	2.00	17.18	0.00	0.84	0.00	0.00	0.00	1	0	0	0	0	0	252	44	0	0	0	0
140+27	14027.00	25.00	22.41	0.00	0.86	0.00	0.00	0.00	18	0	1	0	0	0	270	45	0	0	0	0
140+50	14050.00	23.00	19.43	0.00	0.91	0.00	0.00	0.00	18	0	1	0	0	0	288	46	0	0	0	0
140+82	14082.00	32.00	16.24	0.00	1.02	0.00	0.00	0.00	21	0	1	0	0	0	309	47	0	0	0	0
140+82	14082.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	309	47	0	0	0	0
146+00	14600.00	21.00	18.87	0.00	0.06	0.00	0.00	0.00	15	0	0	0	0	0	324	47	0	0	0	0
146+04	14604.00	4.00	19.28	0.00	0.30	0.00	0.00	0.00	3	0	0	0	0	0	327	47	0	0	0	0
146+29	14629.00	25.00	19.50	0.00	1.28	0.00	0.00	0.00	18	0	1	0	0	0	345	48	0	0	0	0
146+50	14650.00	21.00	16.85	0.00	0.85	0.00	0.00	0.00	14	0	1	0	0	0	359	49	0	0	0	0
147+00	14700.00	50.00	0.00	0.00	2.84	0.00	0.00	0.00	16	0	3	0	0	0	375	52	0	0	0	0
147+16	14716.00	16.00	0.00	0.00	1.51	0.00	0.00	0.00	0	0	1	0	0	0	375	53	0	0	0	0
147+16	14716.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	375	53	0	0	0	0

SHEET 1 SUBTOTAL:	167	30
SHEET 2 SUBTOTAL:	212	23
TOTAL:	379	53





870
860
850
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

10+50

10+00

10 FT
10 FT

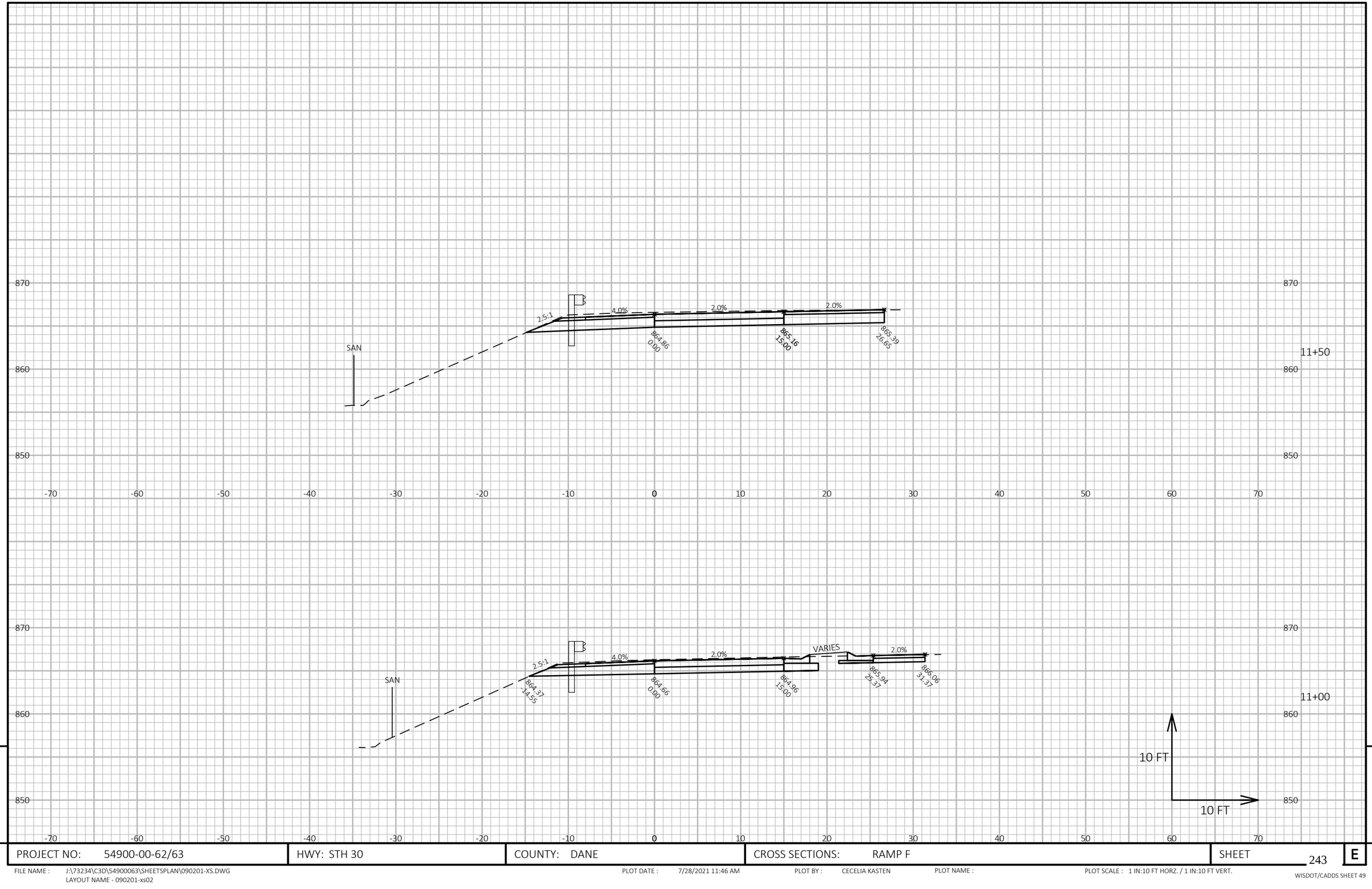
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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP F	SHEET 242	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs01

PLOT DATE : 7/28/2021 11:46 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



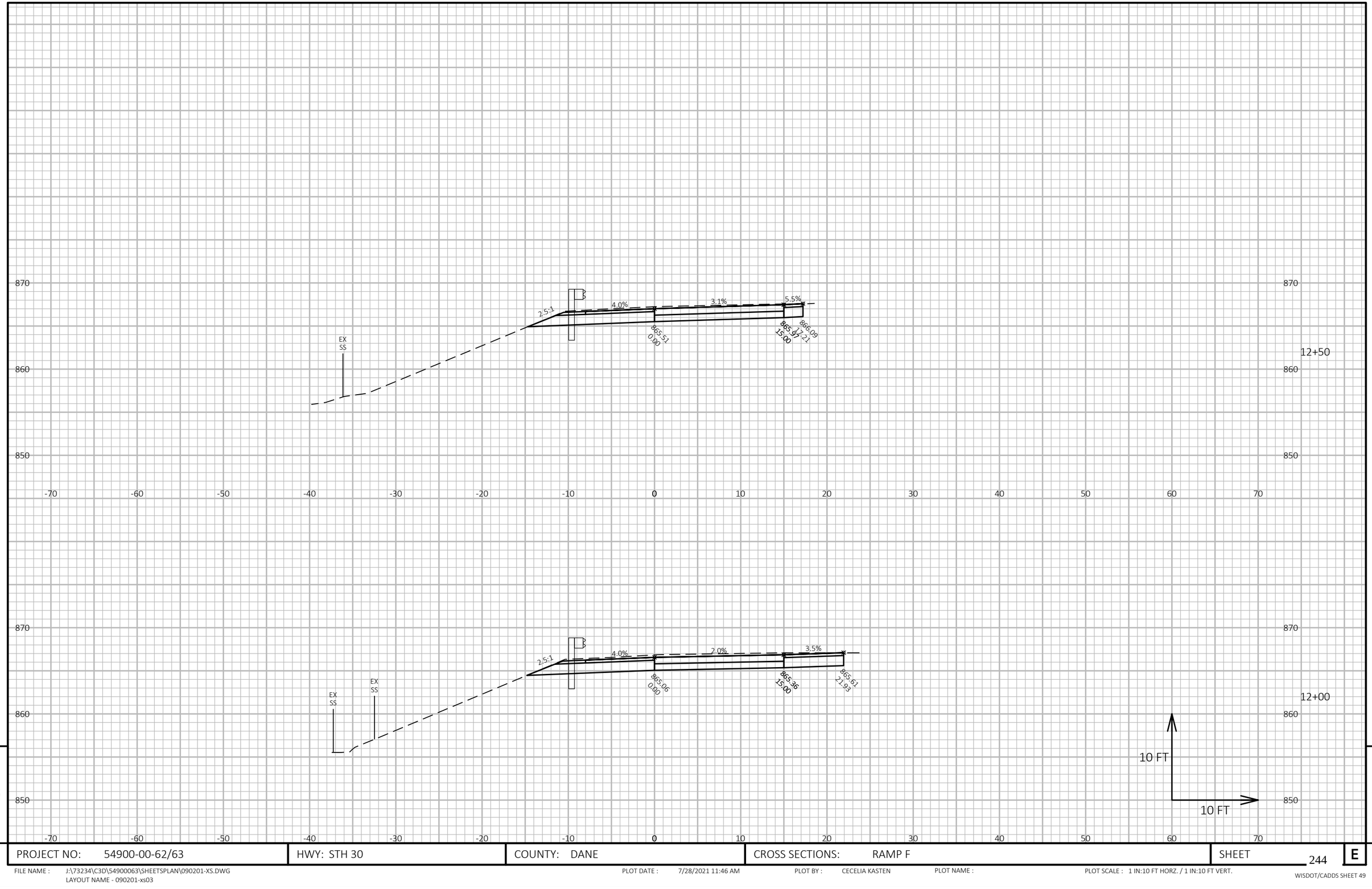
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9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP F	SHEET 243	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs02

PLOT DATE : 7/28/2021 11:46 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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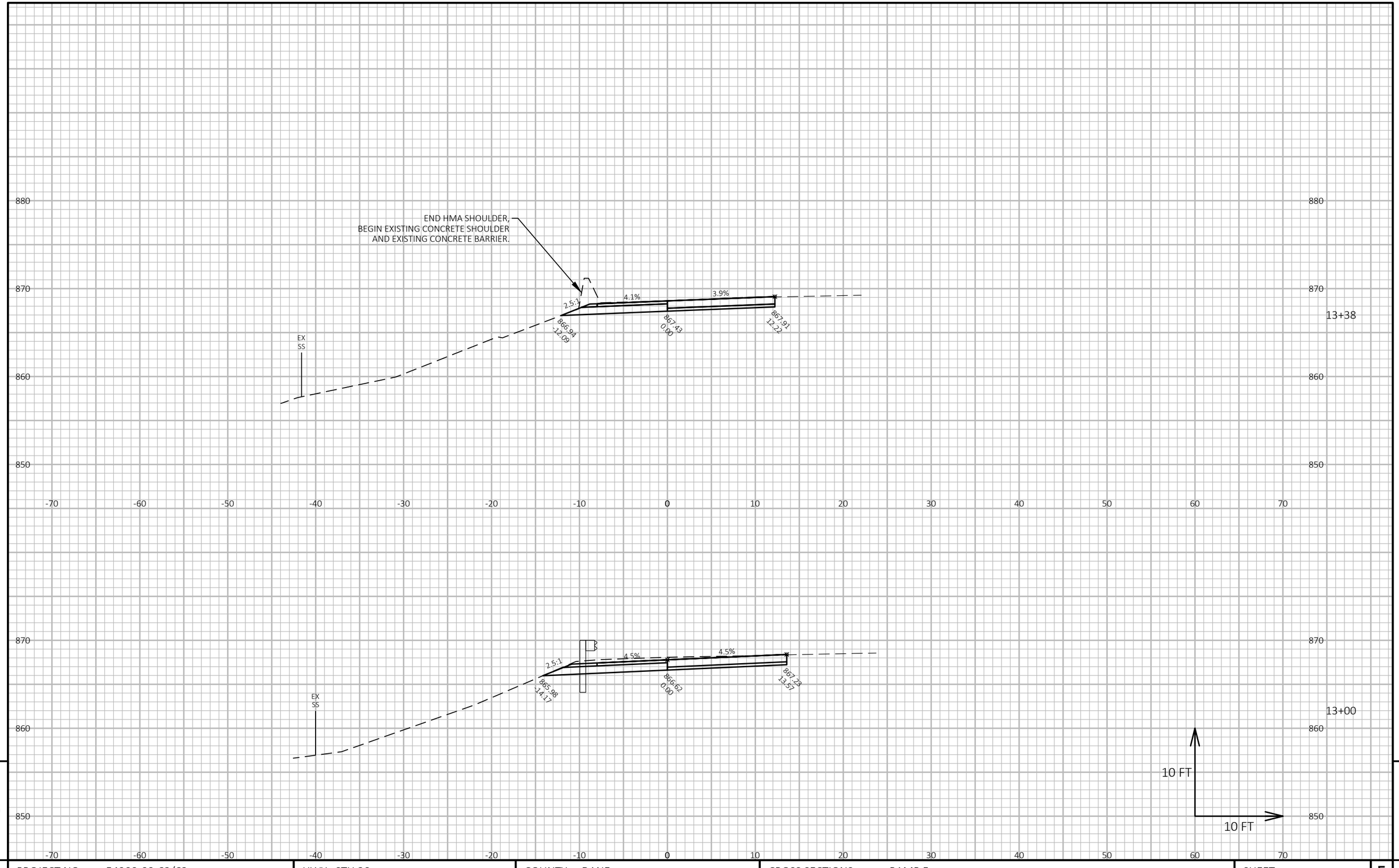
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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP F	SHEET 244	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs03

PLOT DATE : 7/28/2021 11:46 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

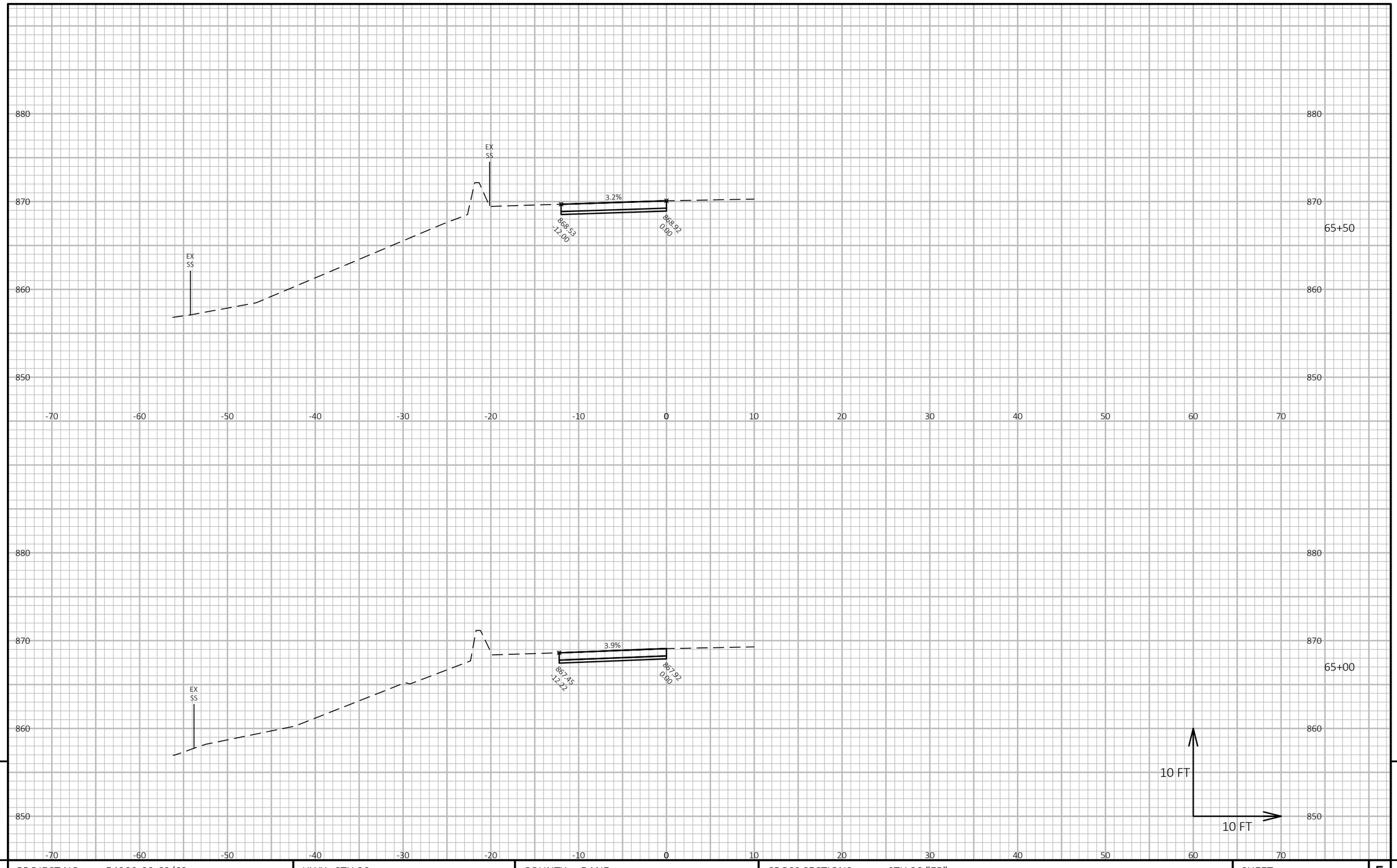
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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP F	SHEET 245	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs04

PLOT DATE : 7/28/2021 11:46 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



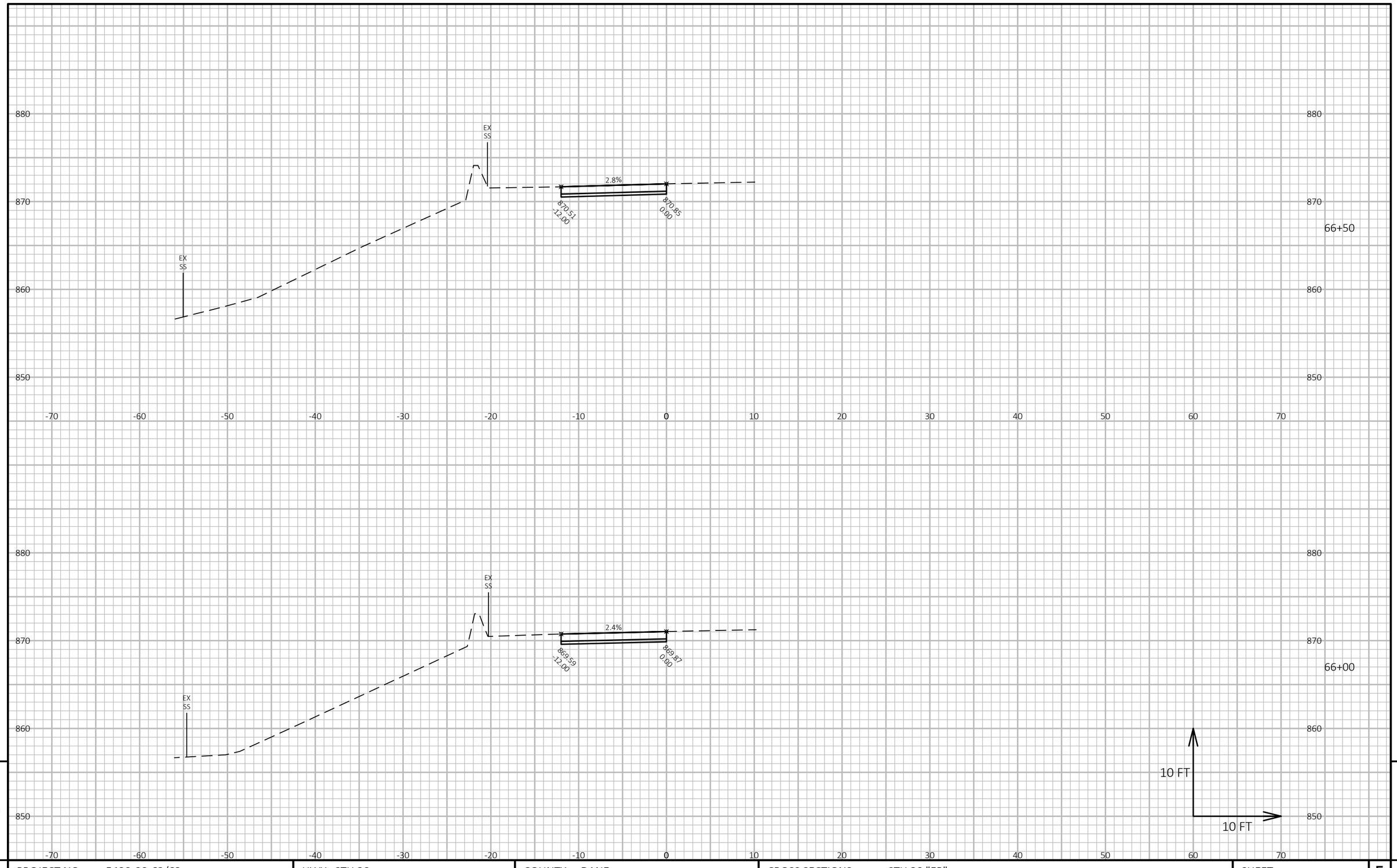
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9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 246	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs01

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



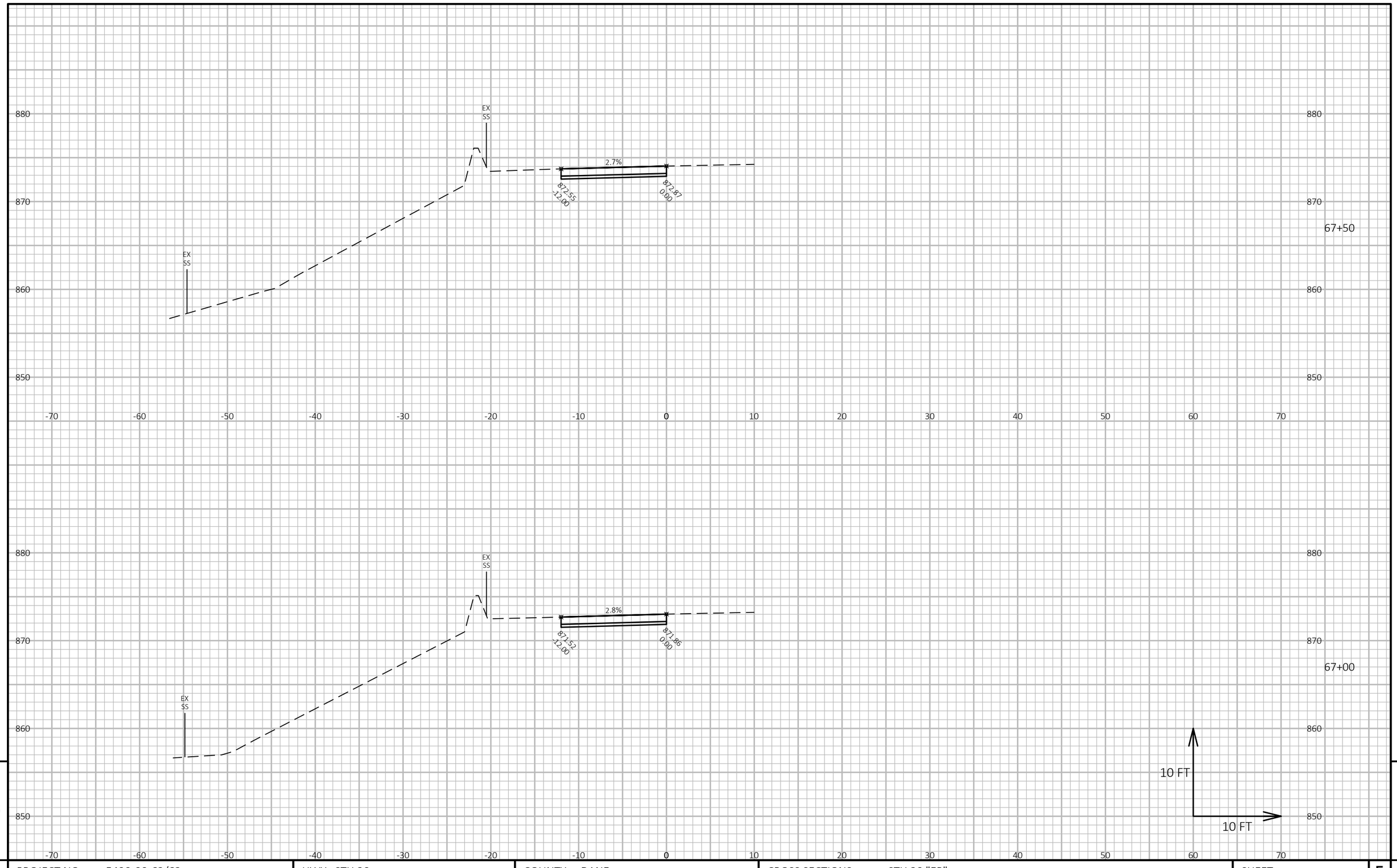
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 247	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs02

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



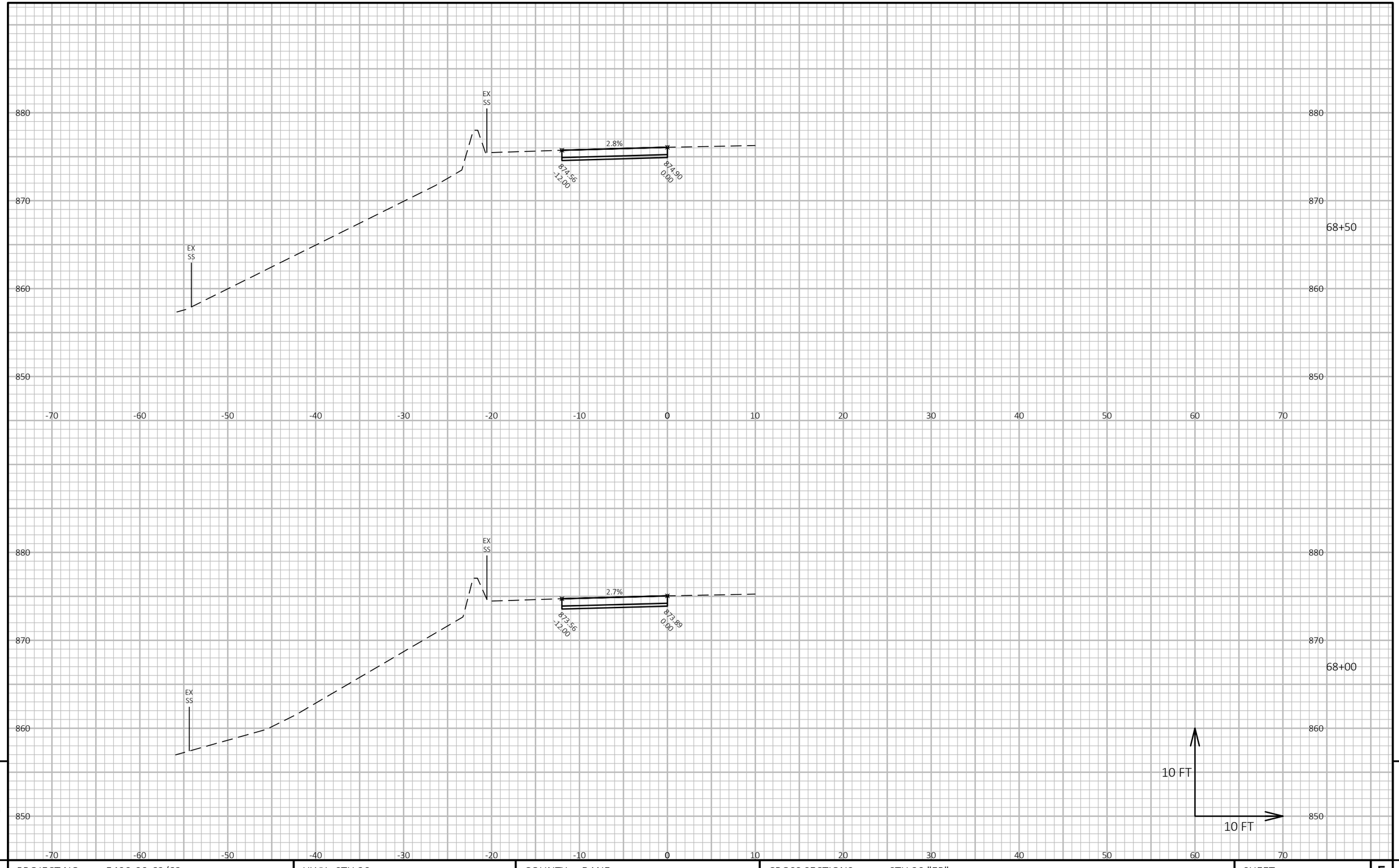
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 248	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs03

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



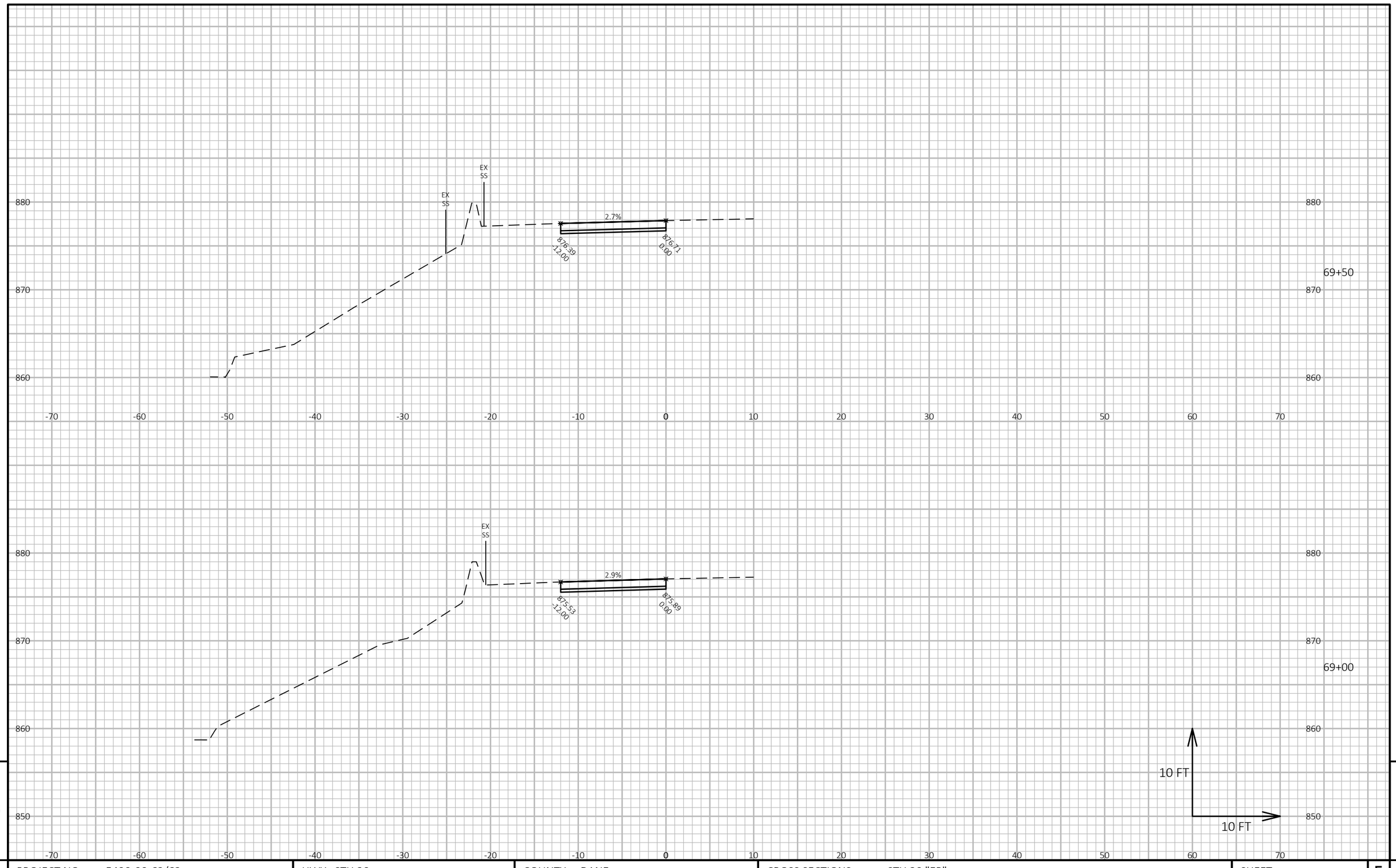
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 249	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs04

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

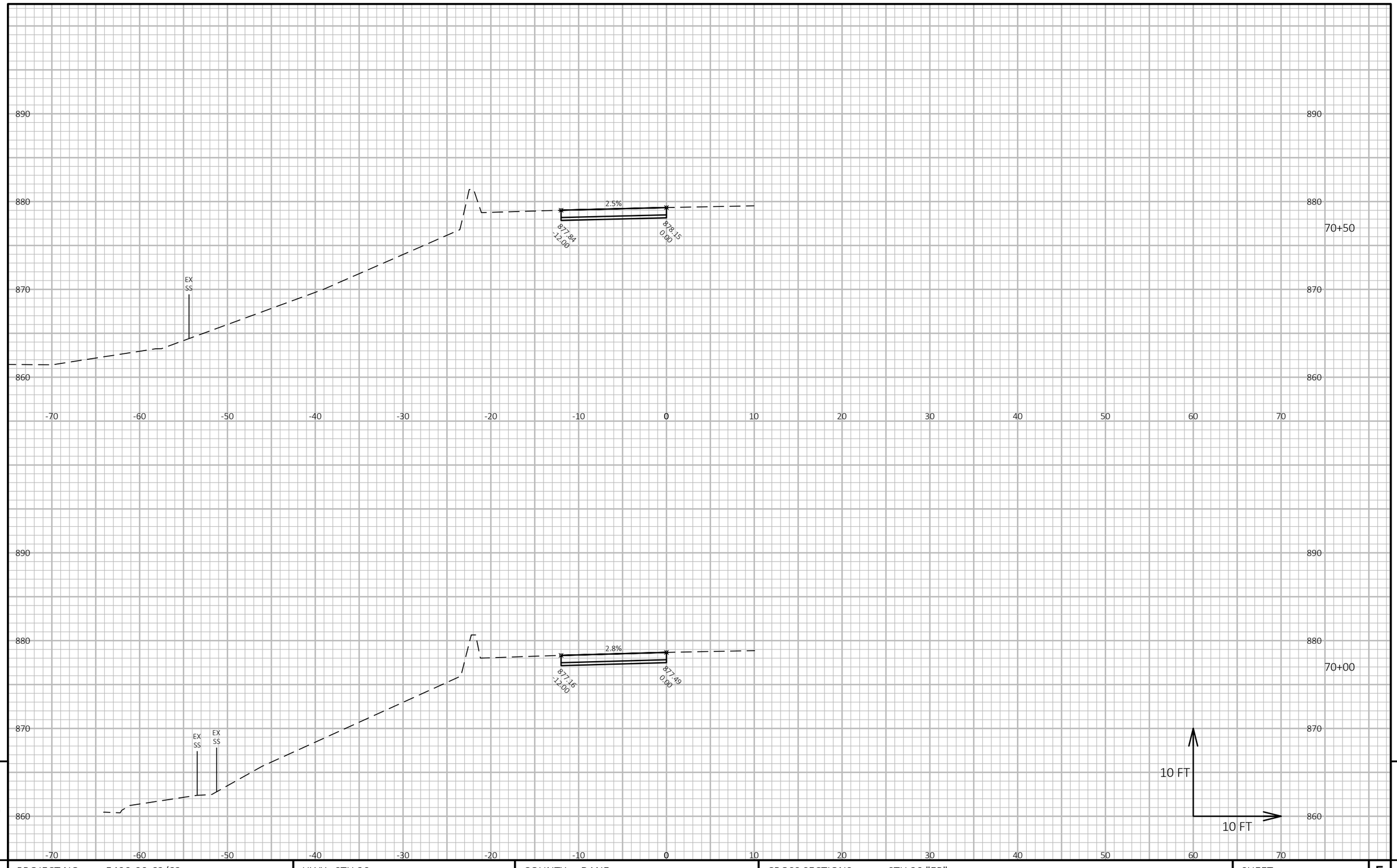
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 250	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs05

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



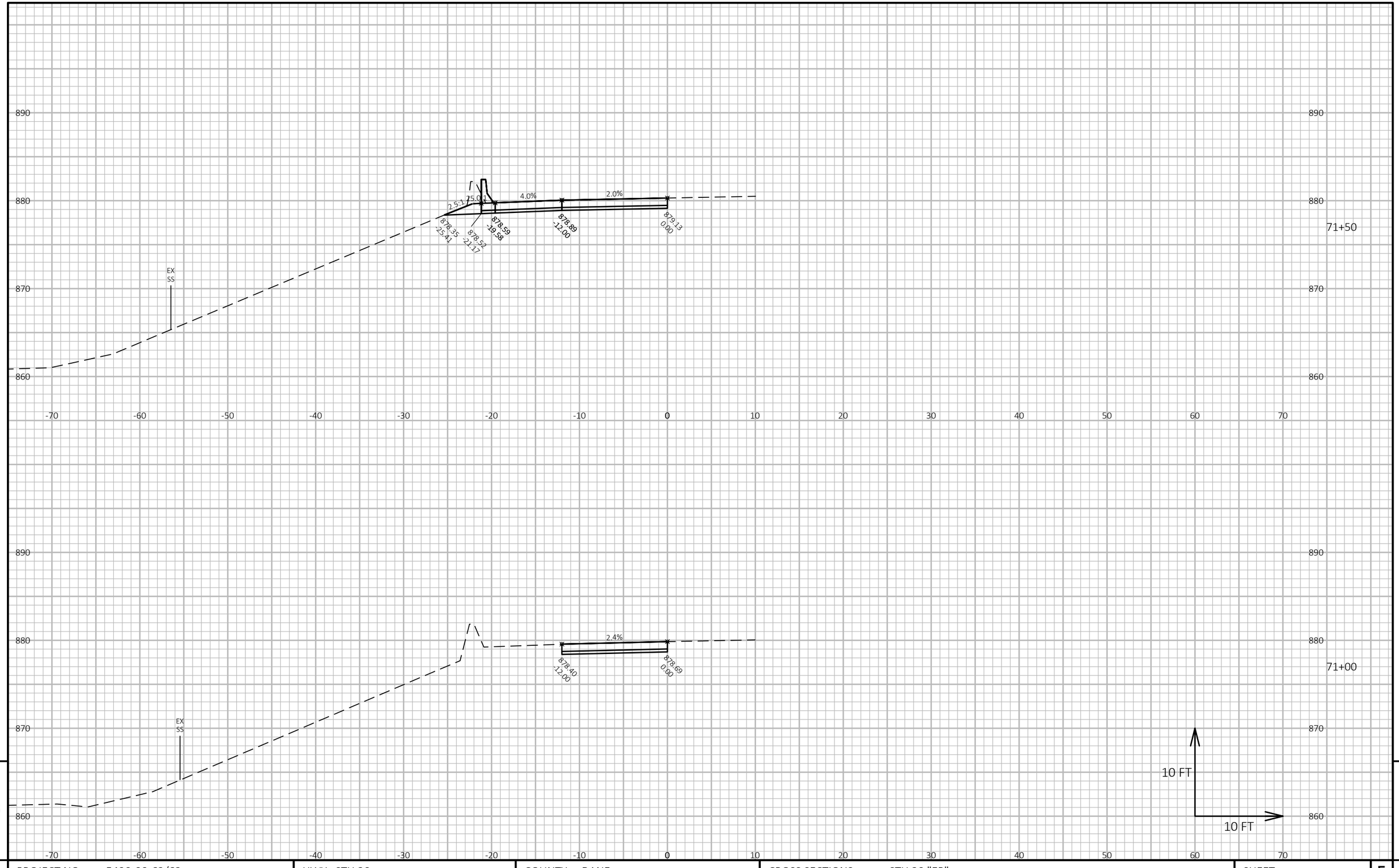
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 251	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs06

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

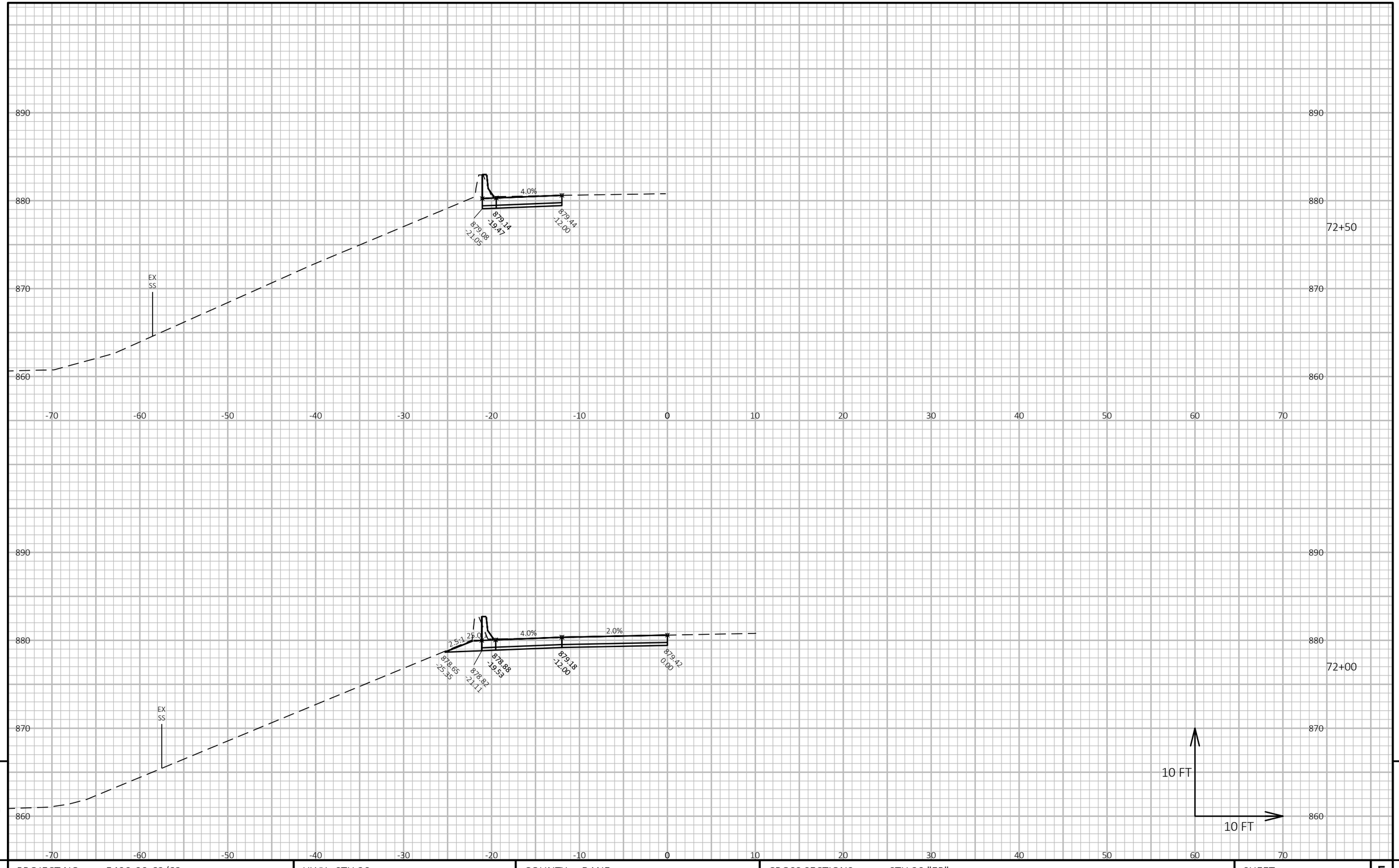


PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 252	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs07

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



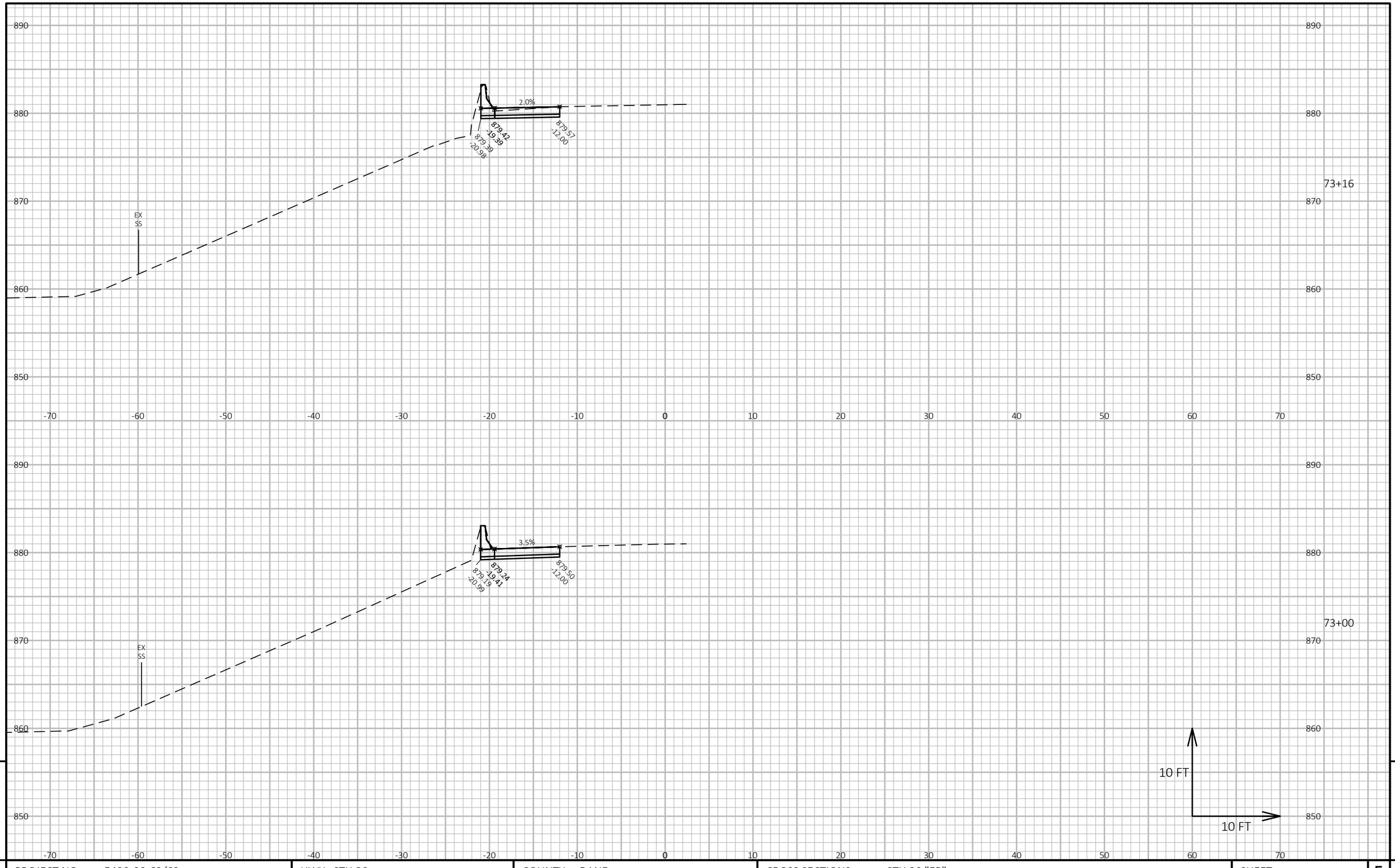
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 253	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs08

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



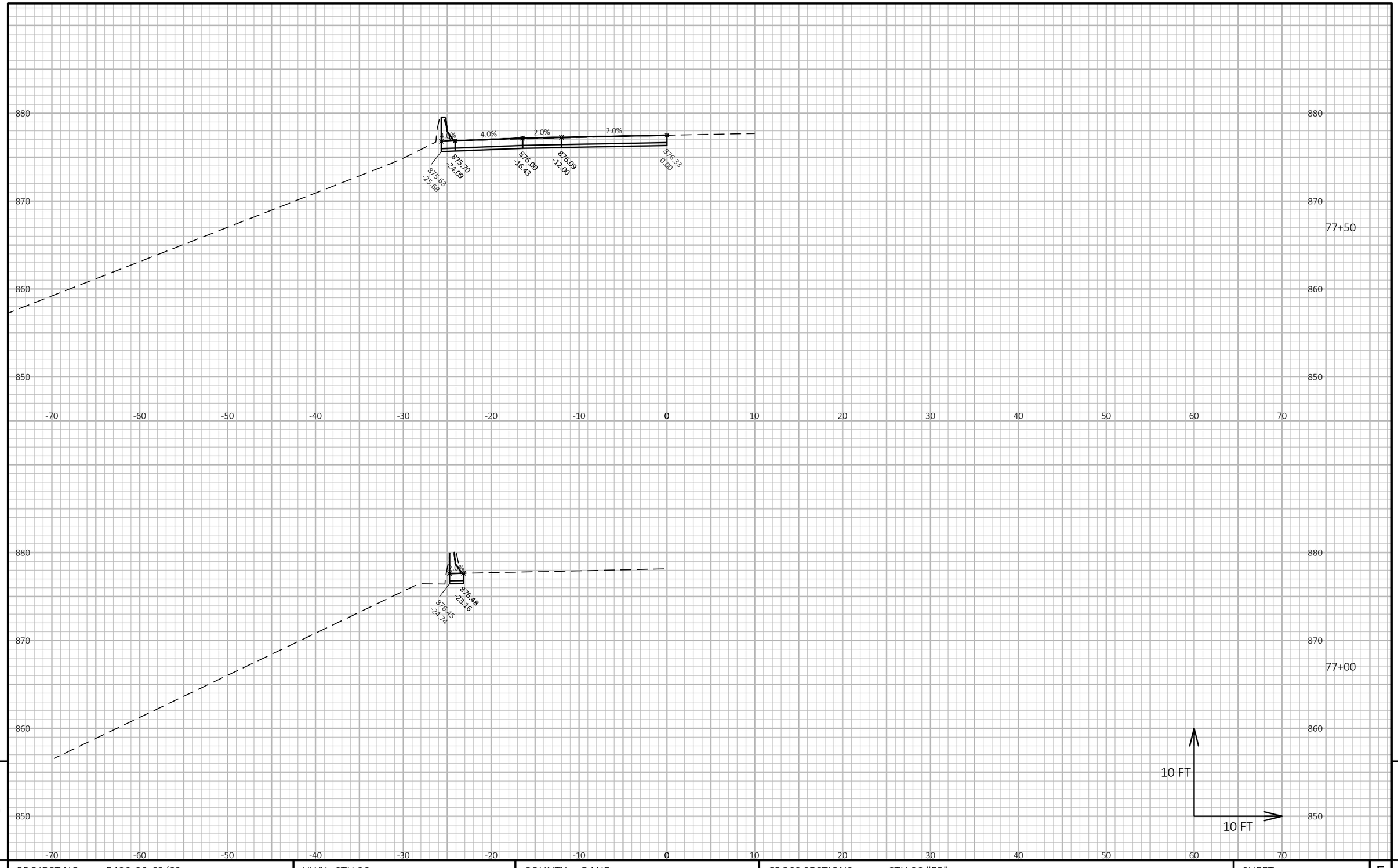
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 254	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090202-xs09

PLOT DATE : 7/28/2021 12:28 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 255	E

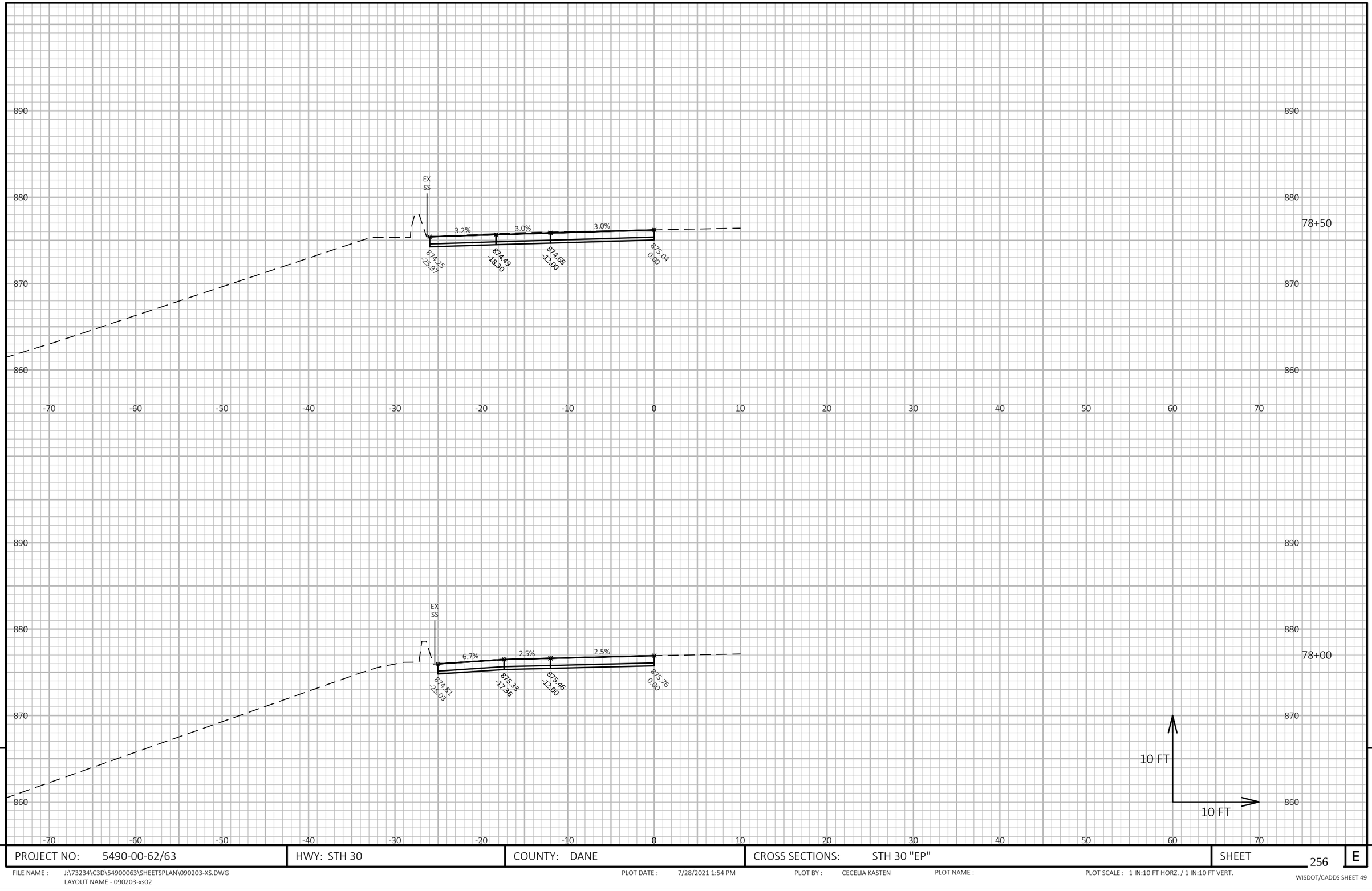
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs01

PLOT DATE : 7/28/2021 1:54 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 256	E

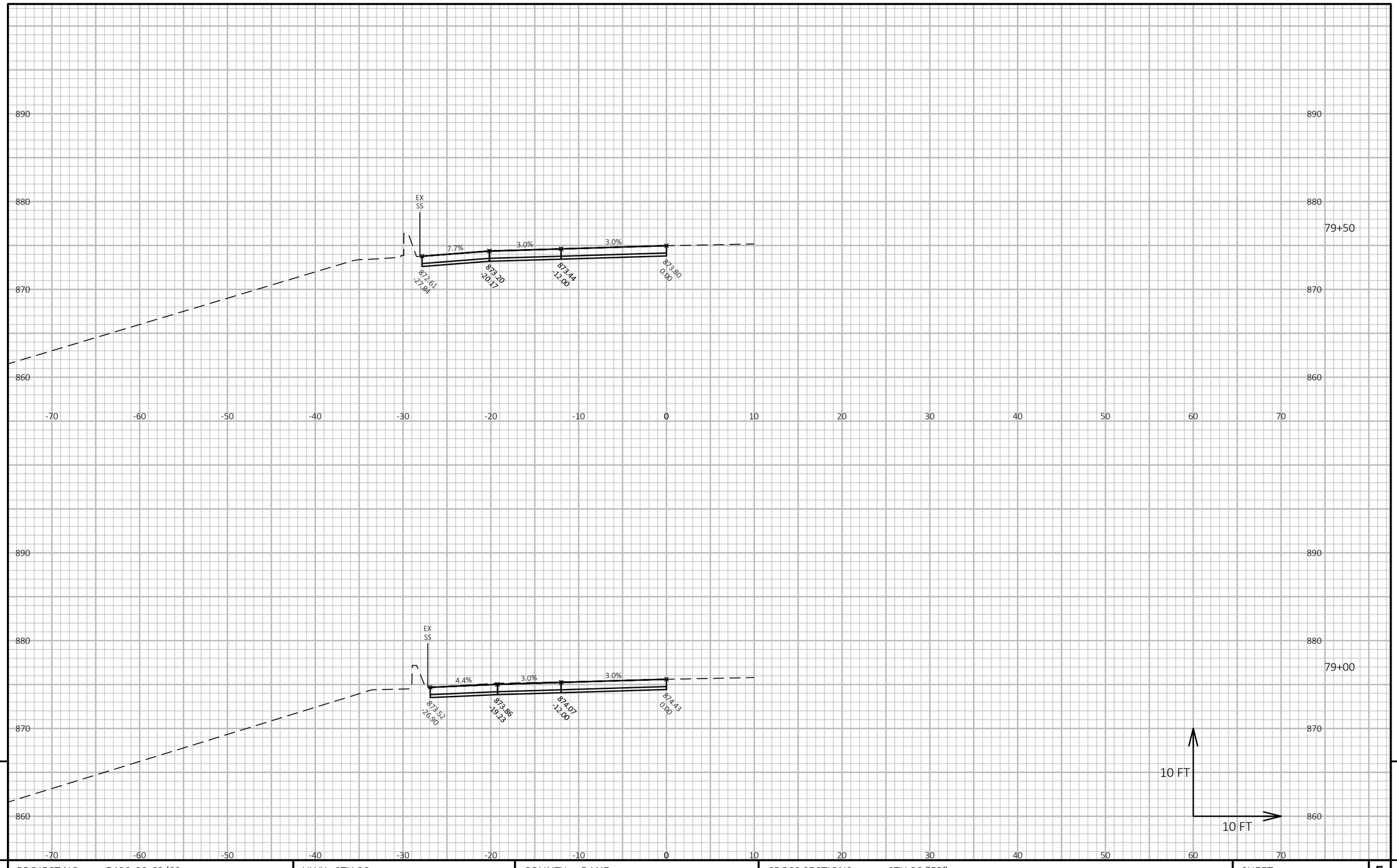
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs02

PLOT DATE : 7/28/2021 1:54 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 257	E

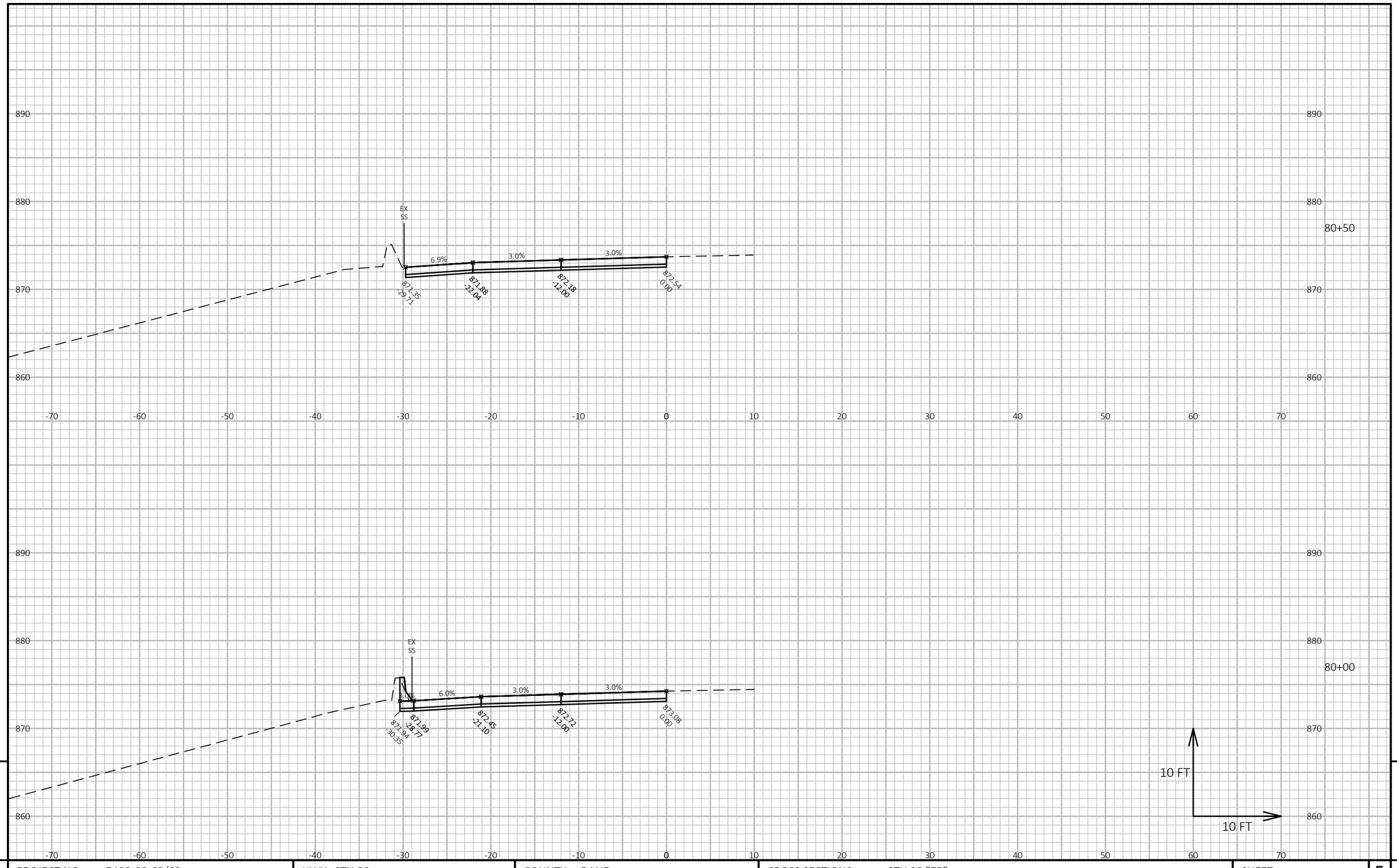
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs03

PLOT DATE : 7/28/2021 1:54 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 258	E

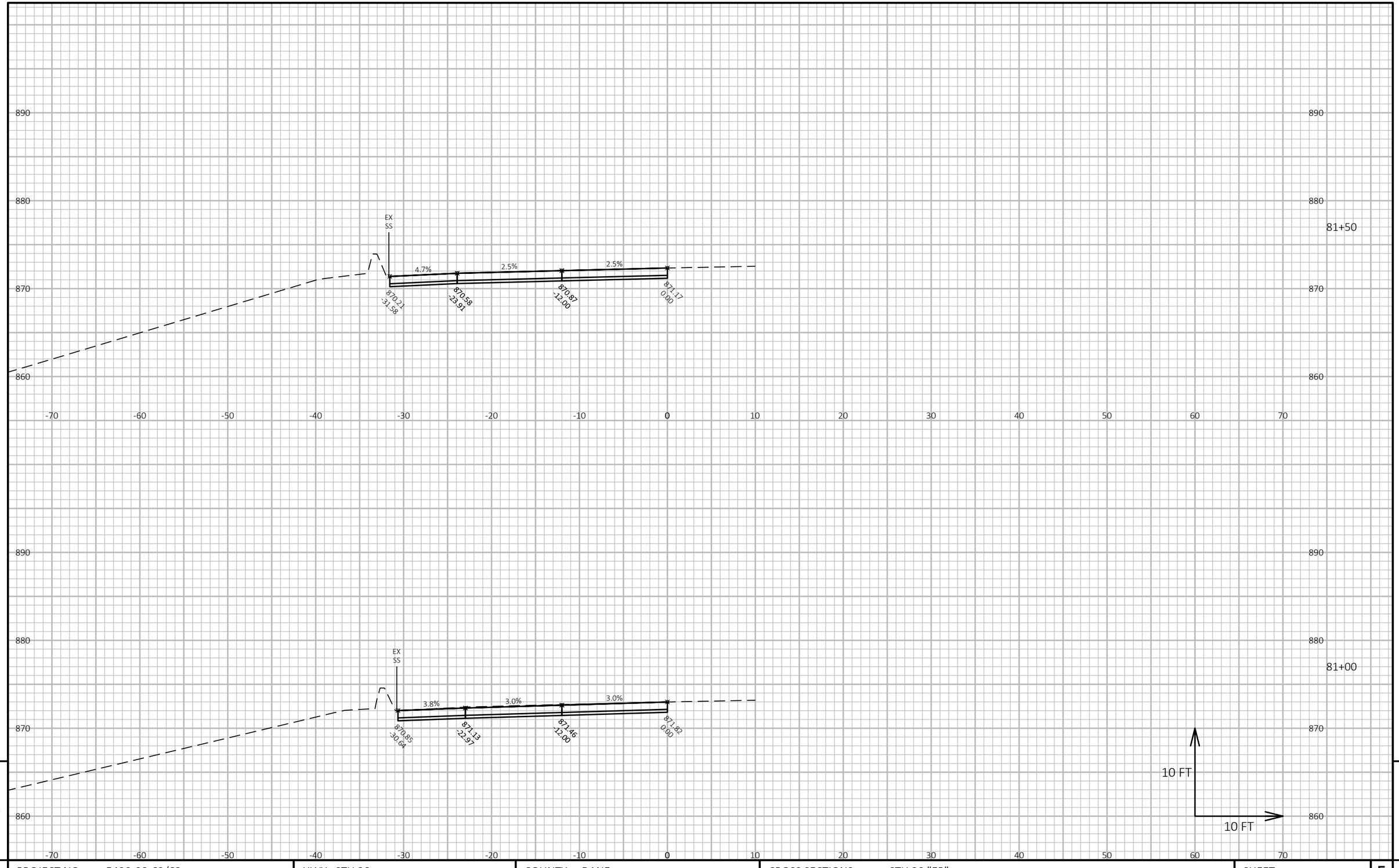
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs04

PLOT DATE : 7/28/2021 1:55 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 259	E

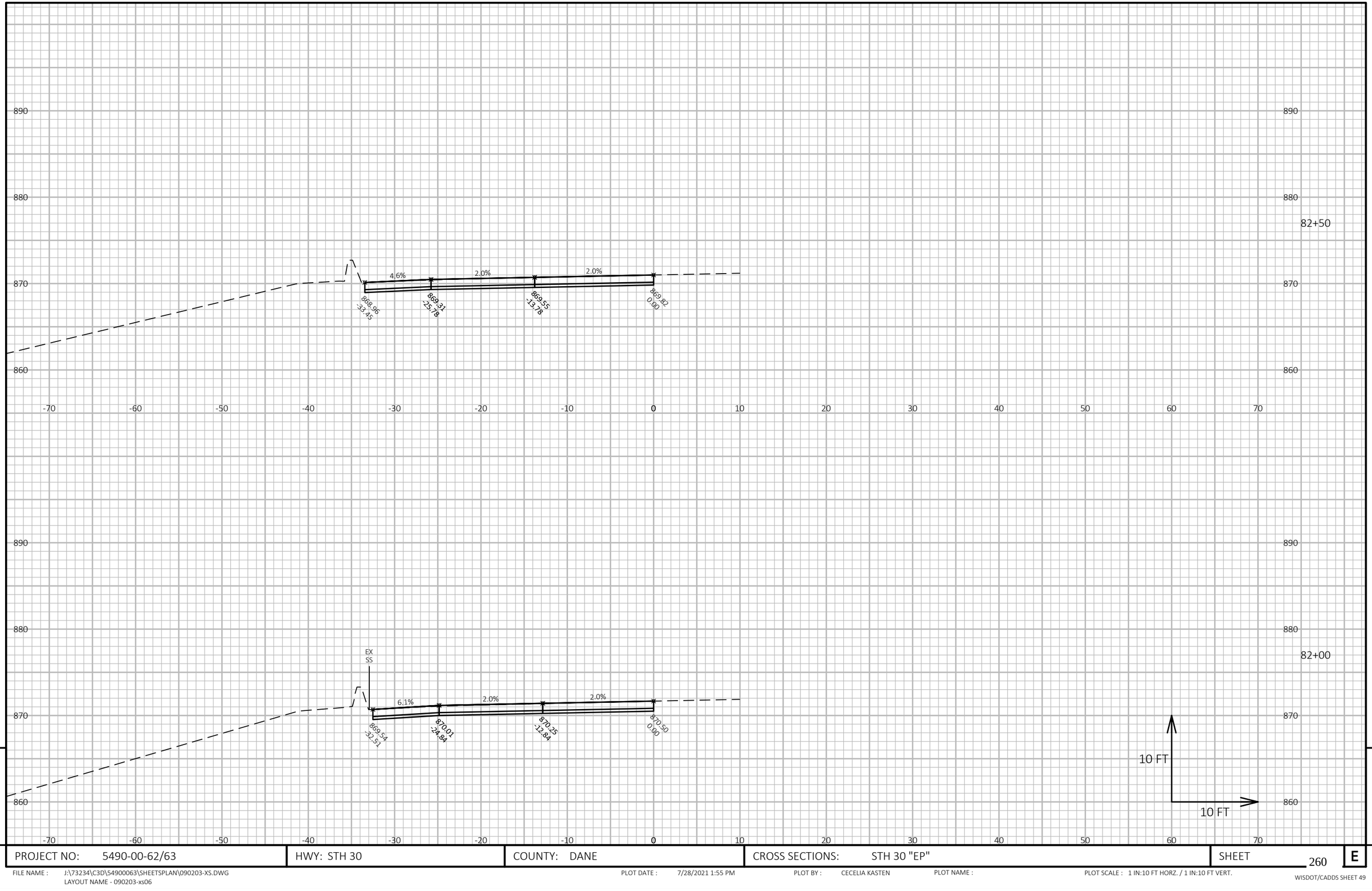
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs05

PLOT DATE : 7/28/2021 1:55 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



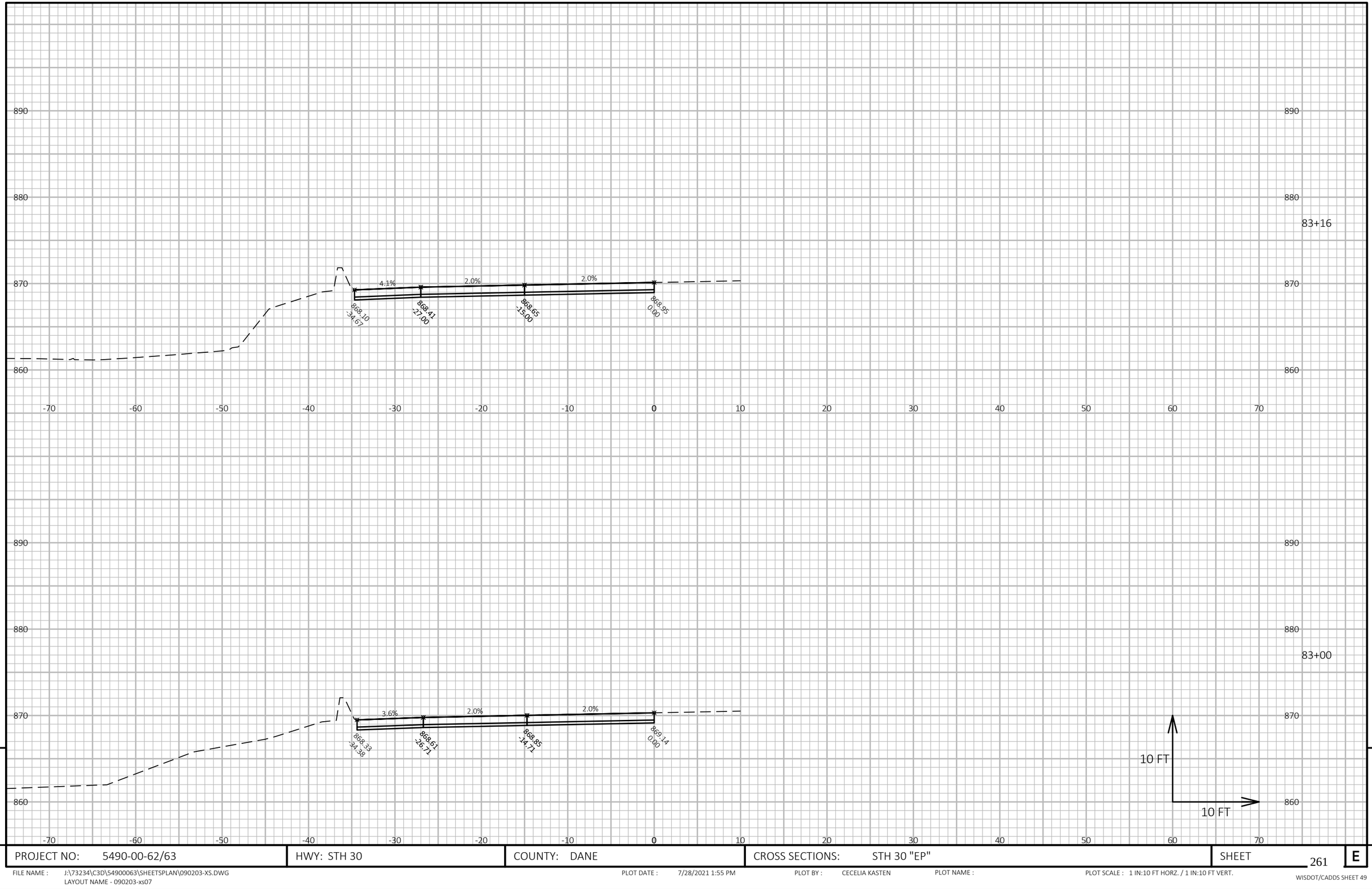
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 260	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs06

PLOT DATE : 7/28/2021 1:55 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STH 30 "EP"	SHEET 261	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 090203-xs07

PLOT DATE : 7/28/2021 1:55 PM

PLOT BY : CECELIA KASTEN

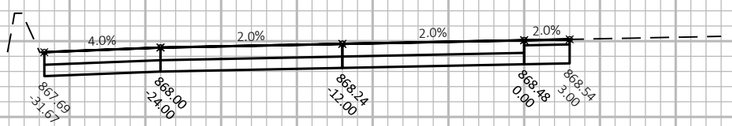
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

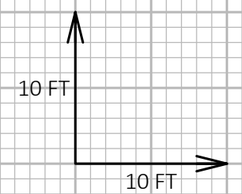
WISDOT/CADDS SHEET 49



19+00



18+67



PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 262 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs01

PLOT DATE : 7/31/2021 8:09 AM

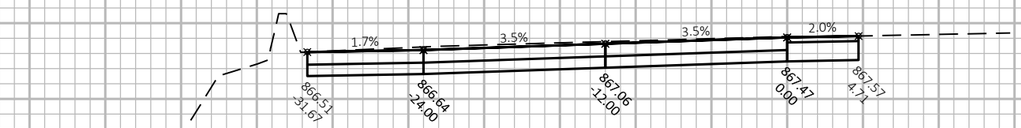
PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 263	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs02

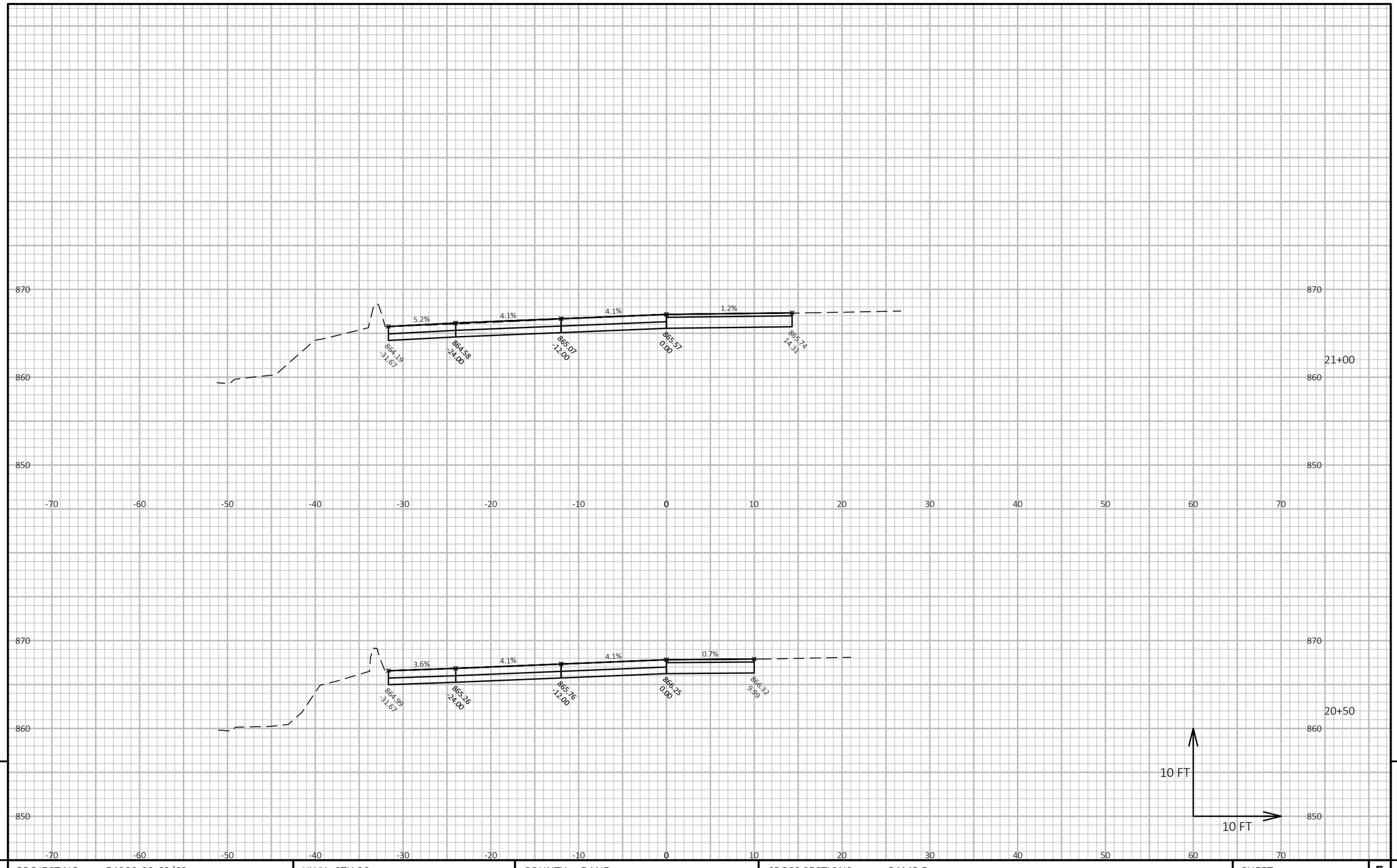
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 264	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs03

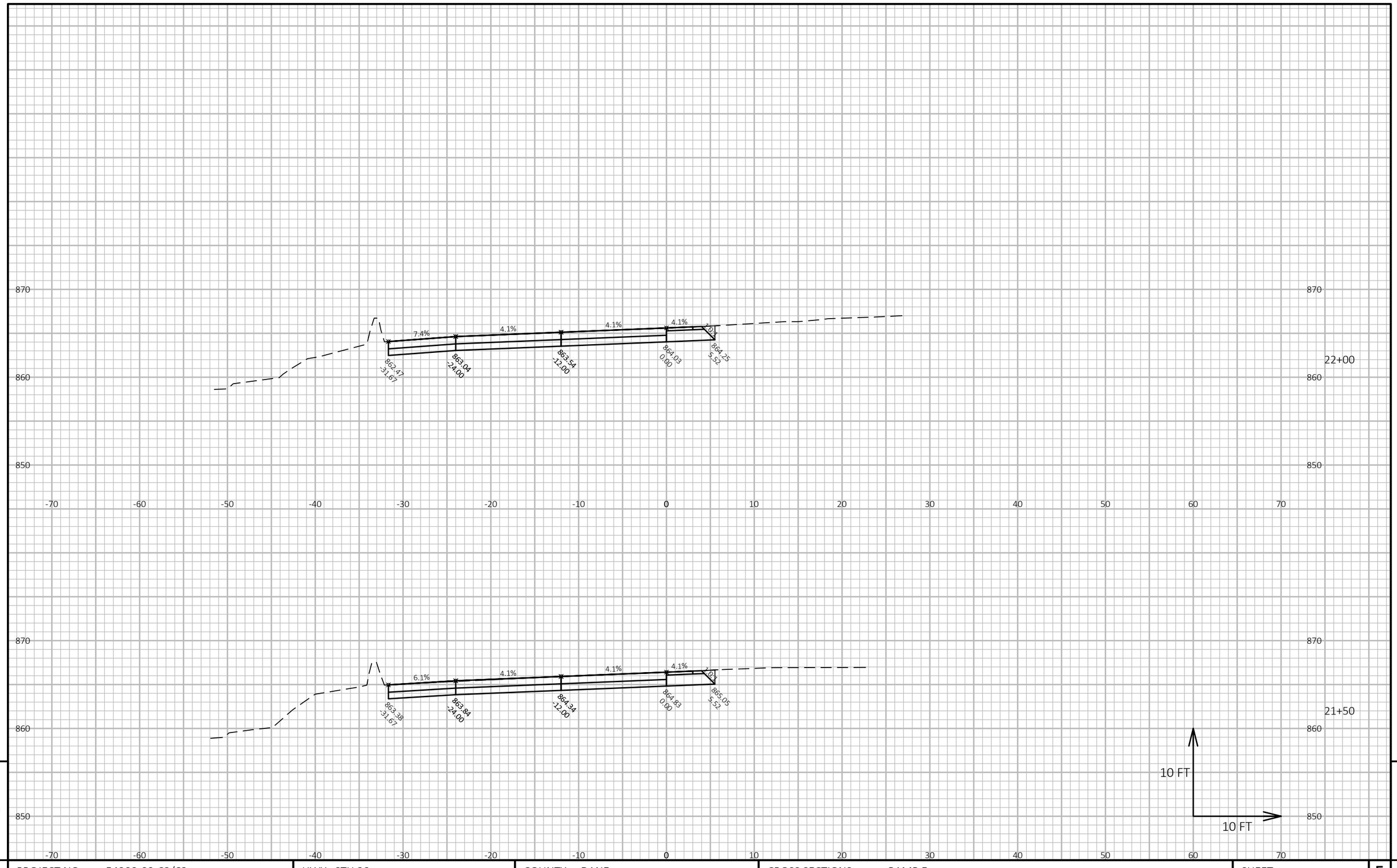
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 265	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs04

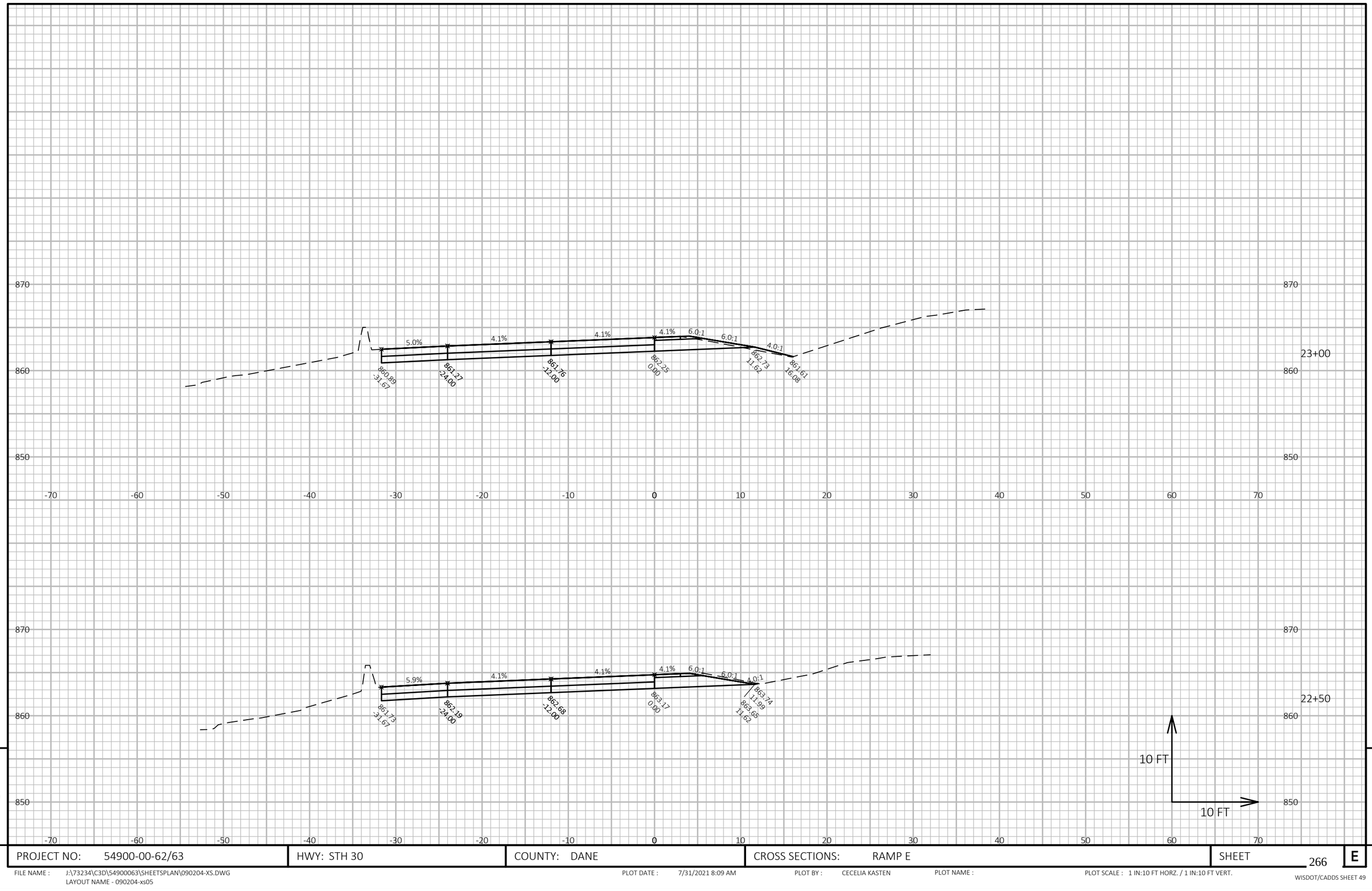
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 266	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs05

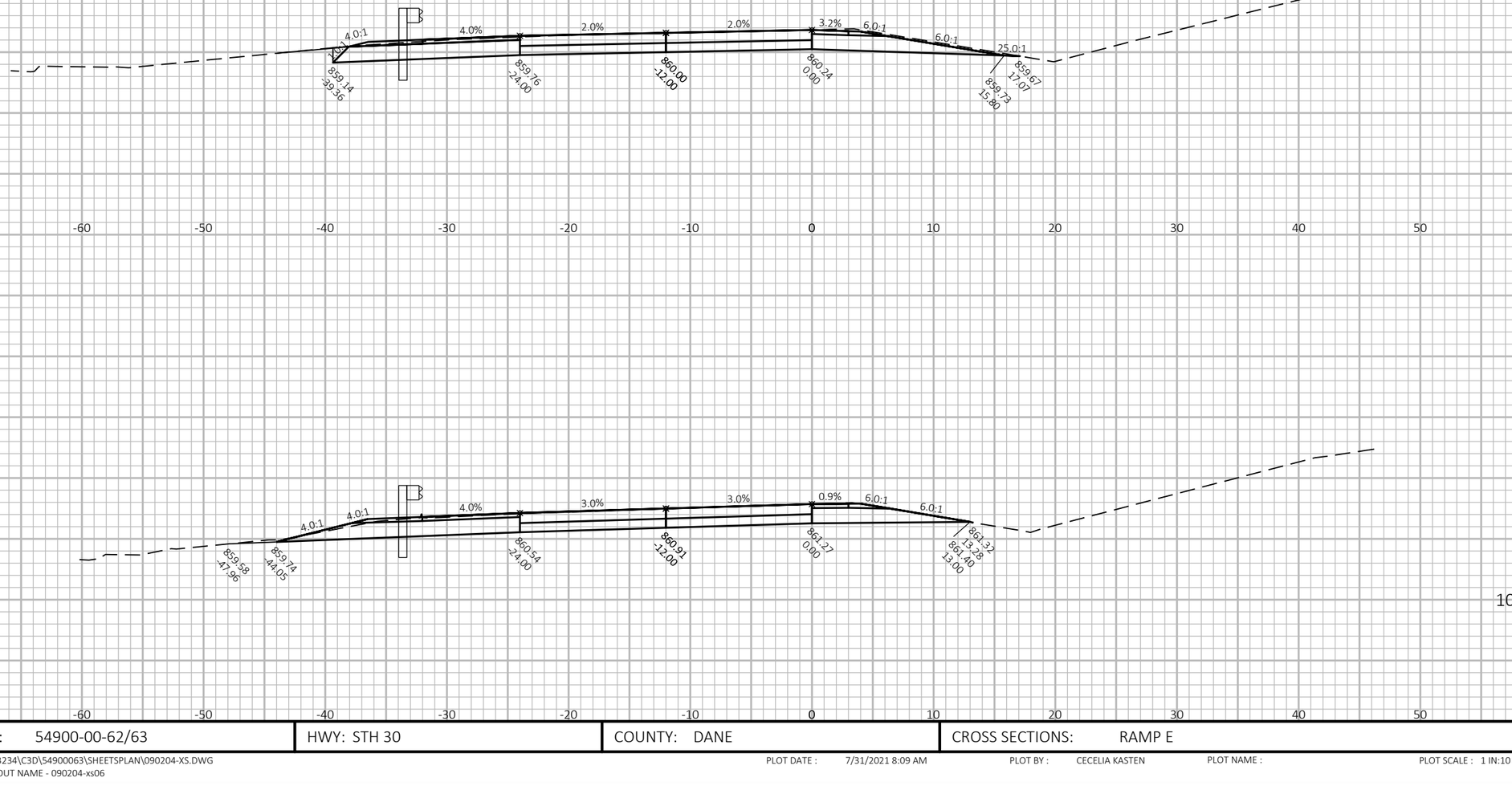
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 267	E

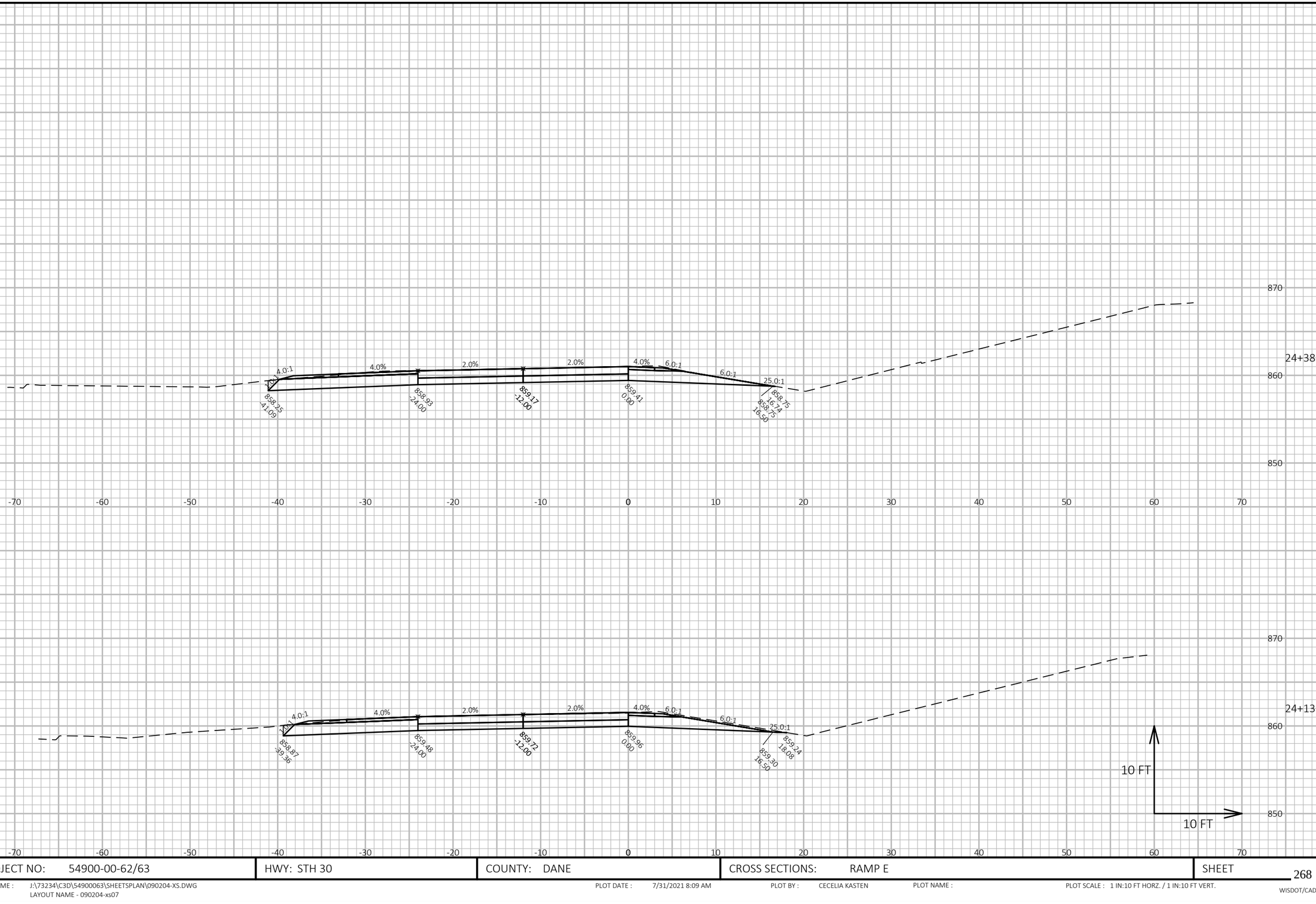
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs06

PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



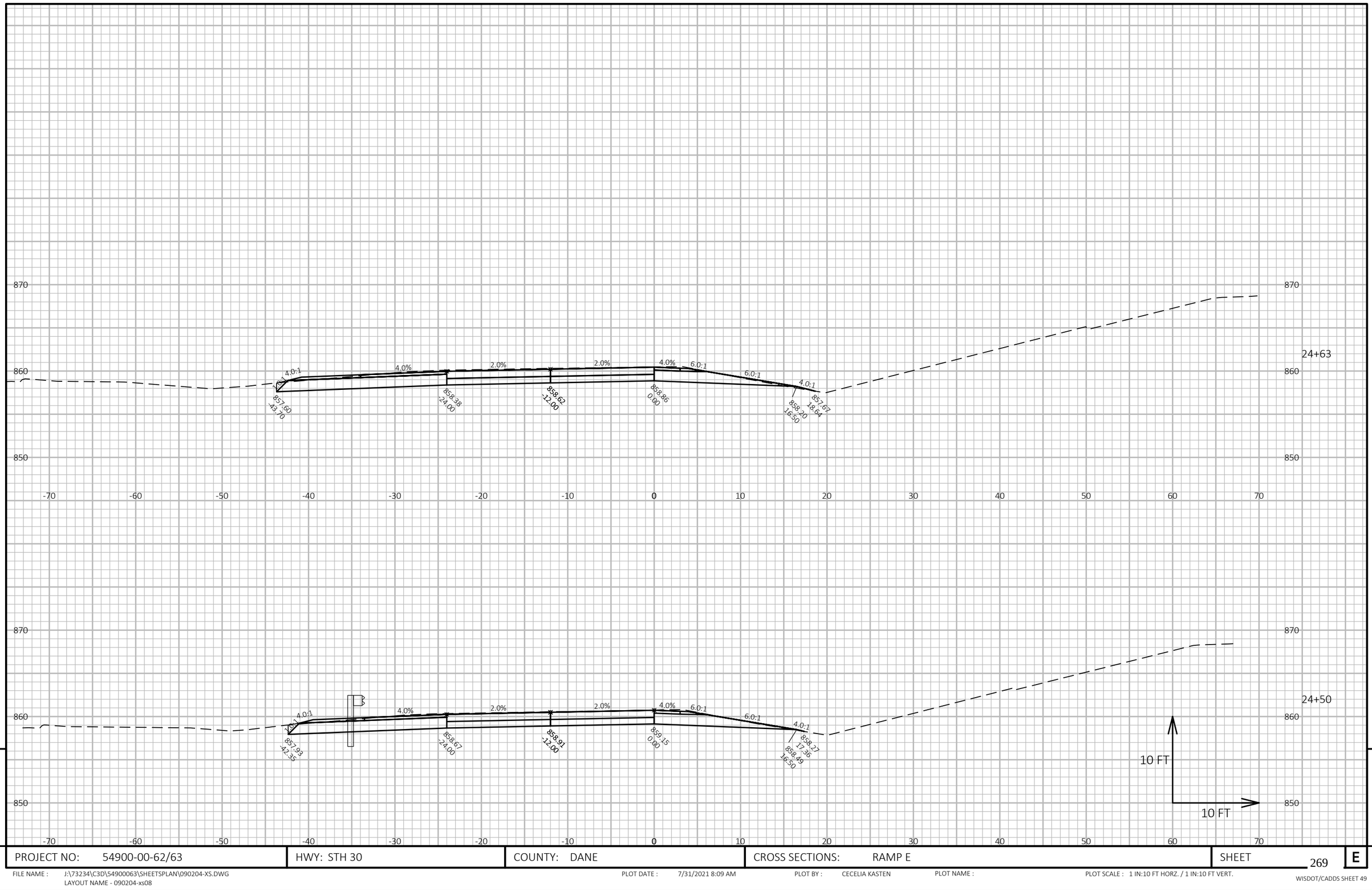
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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 268	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs07

PLOT DATE : 7/31/2021 8:09 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 269	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs08

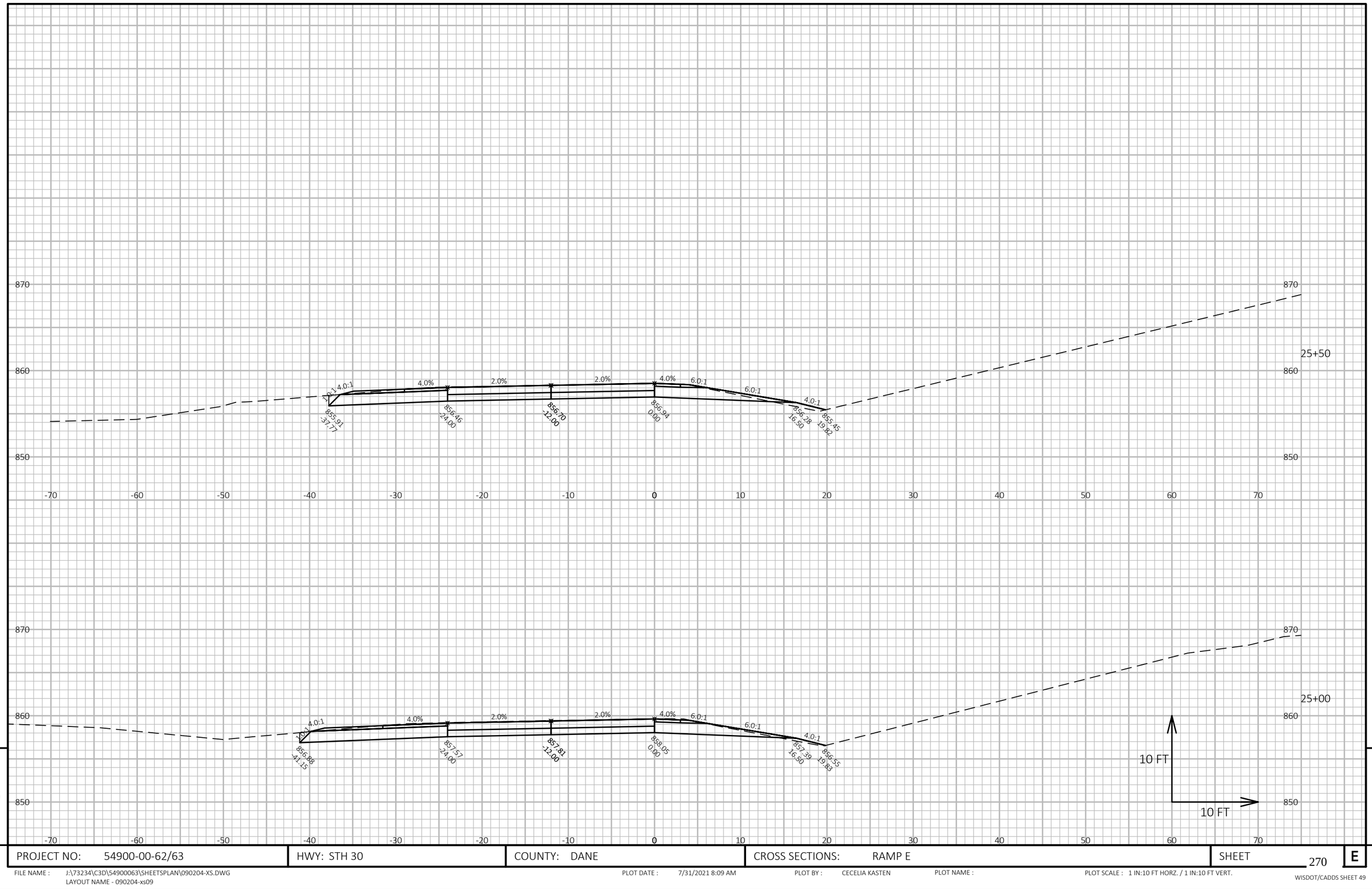
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 270	E

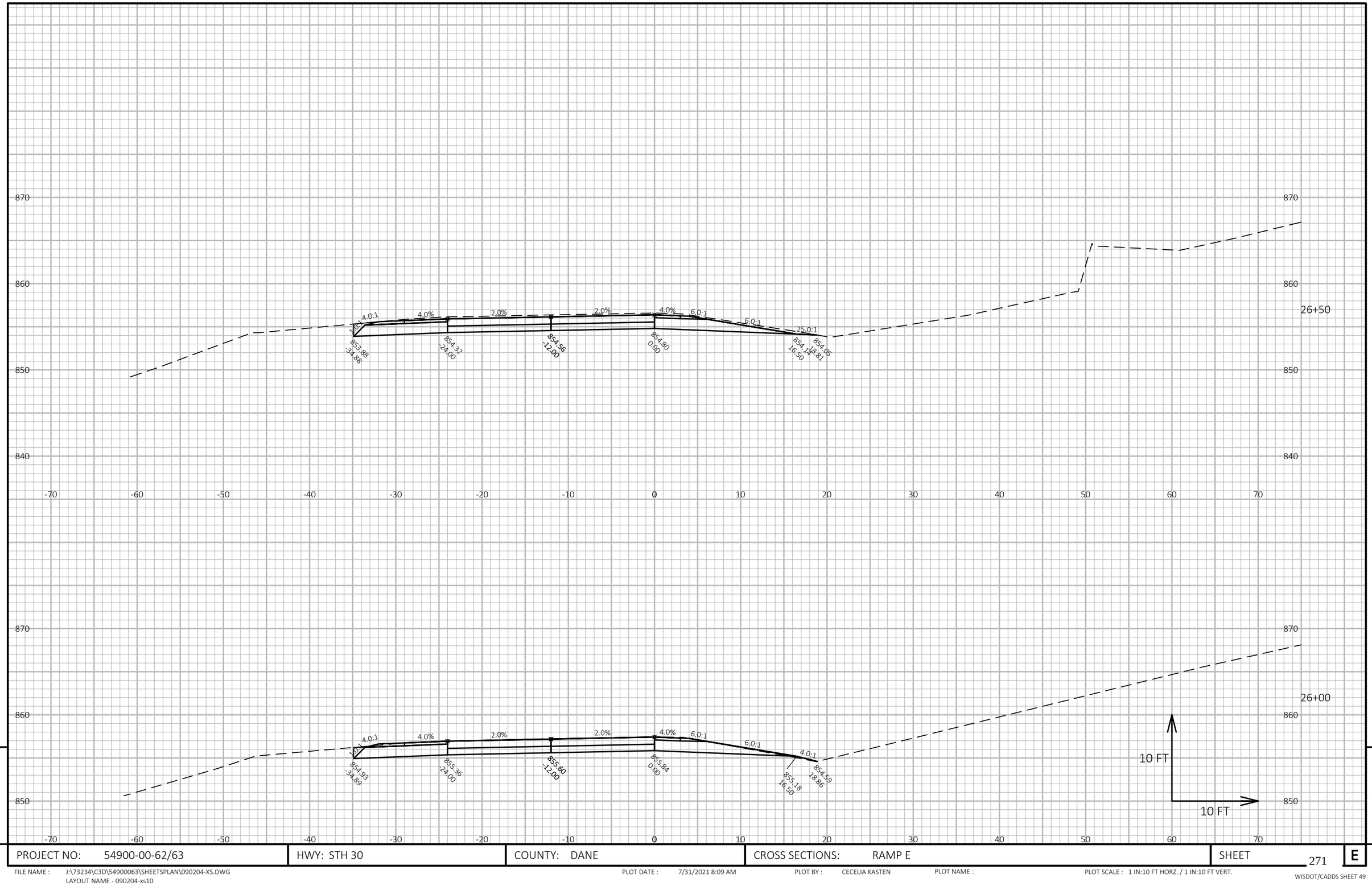
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs09

PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 271	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs10

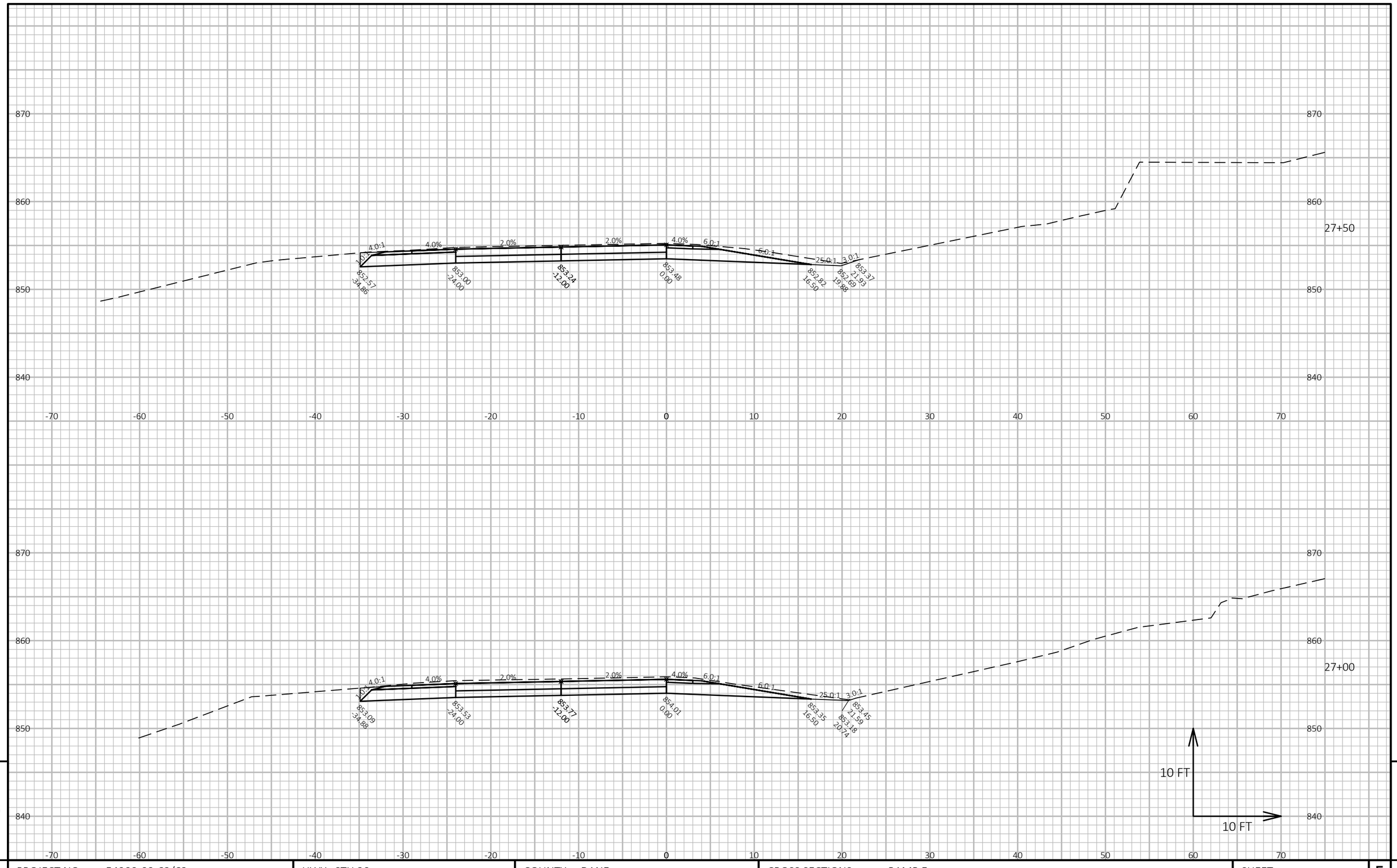
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 272	E

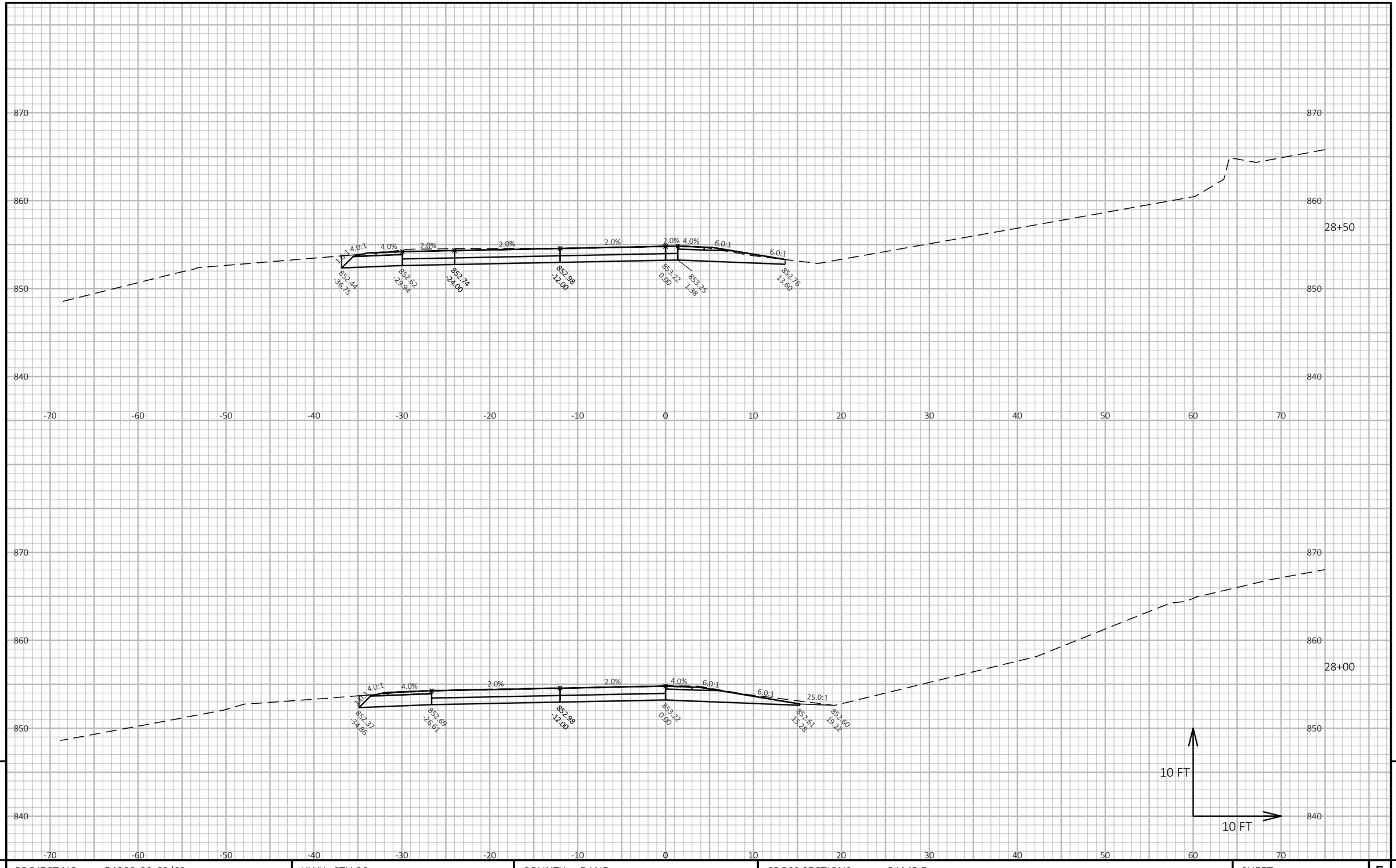
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs11

PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

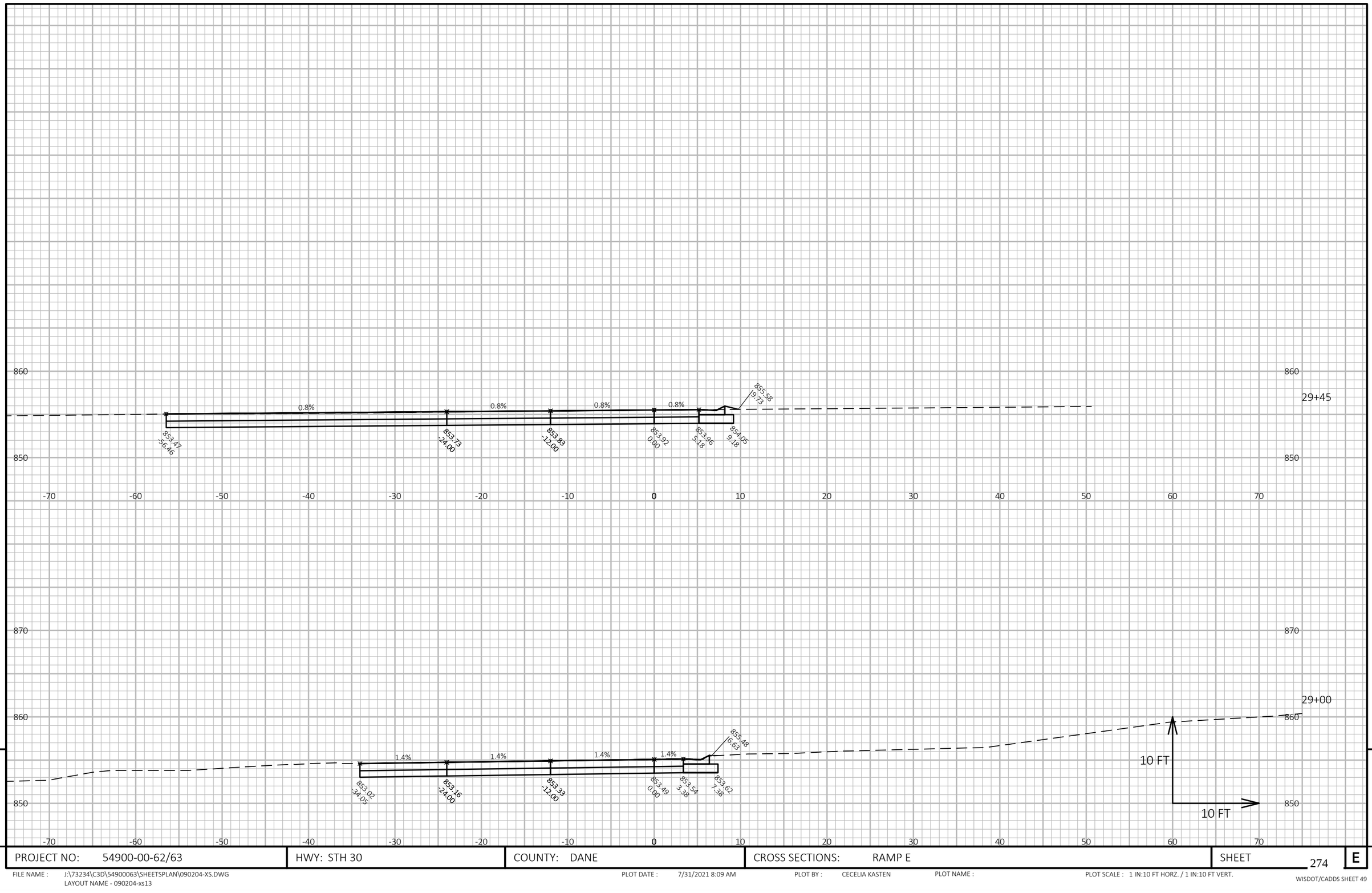


PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 273 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs12

PLOT DATE : 7/31/2021 8:09 AM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: RAMP E	SHEET 274	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - 090204-xs13

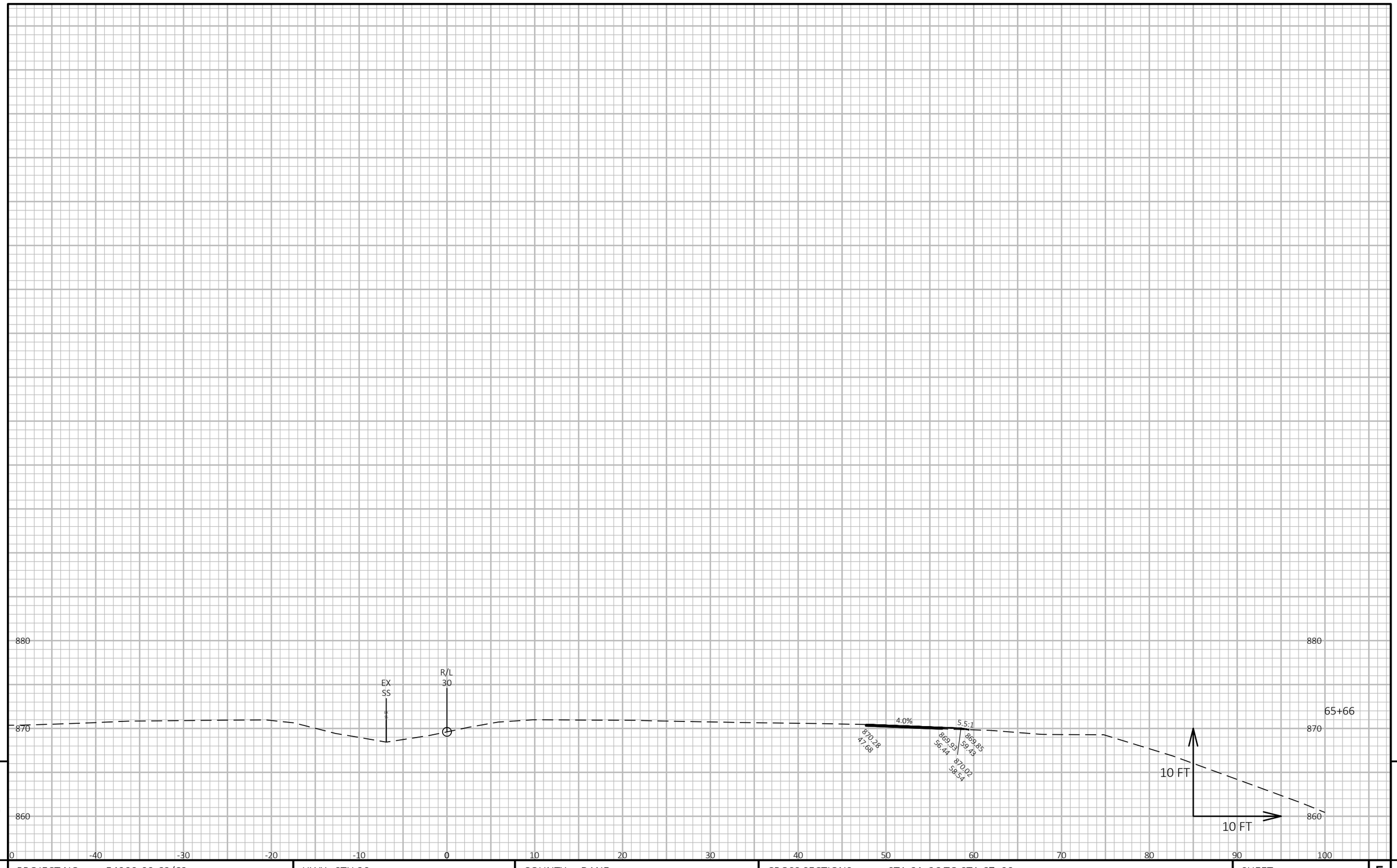
PLOT DATE : 7/31/2021 8:09 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 64+26 TO STA 67+90	SHEET 275	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs02

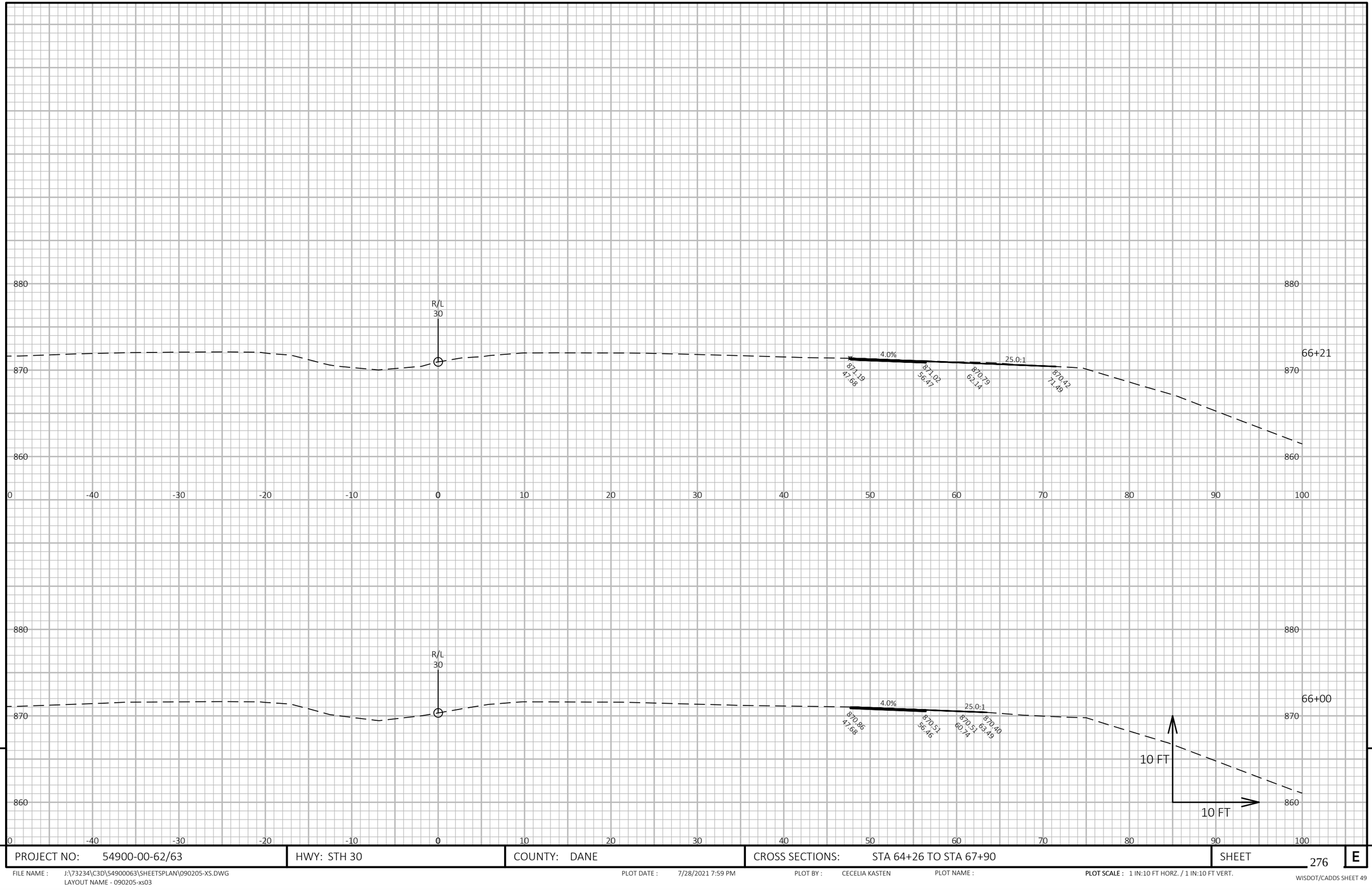
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 64+26 TO STA 67+90	SHEET 276	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs03

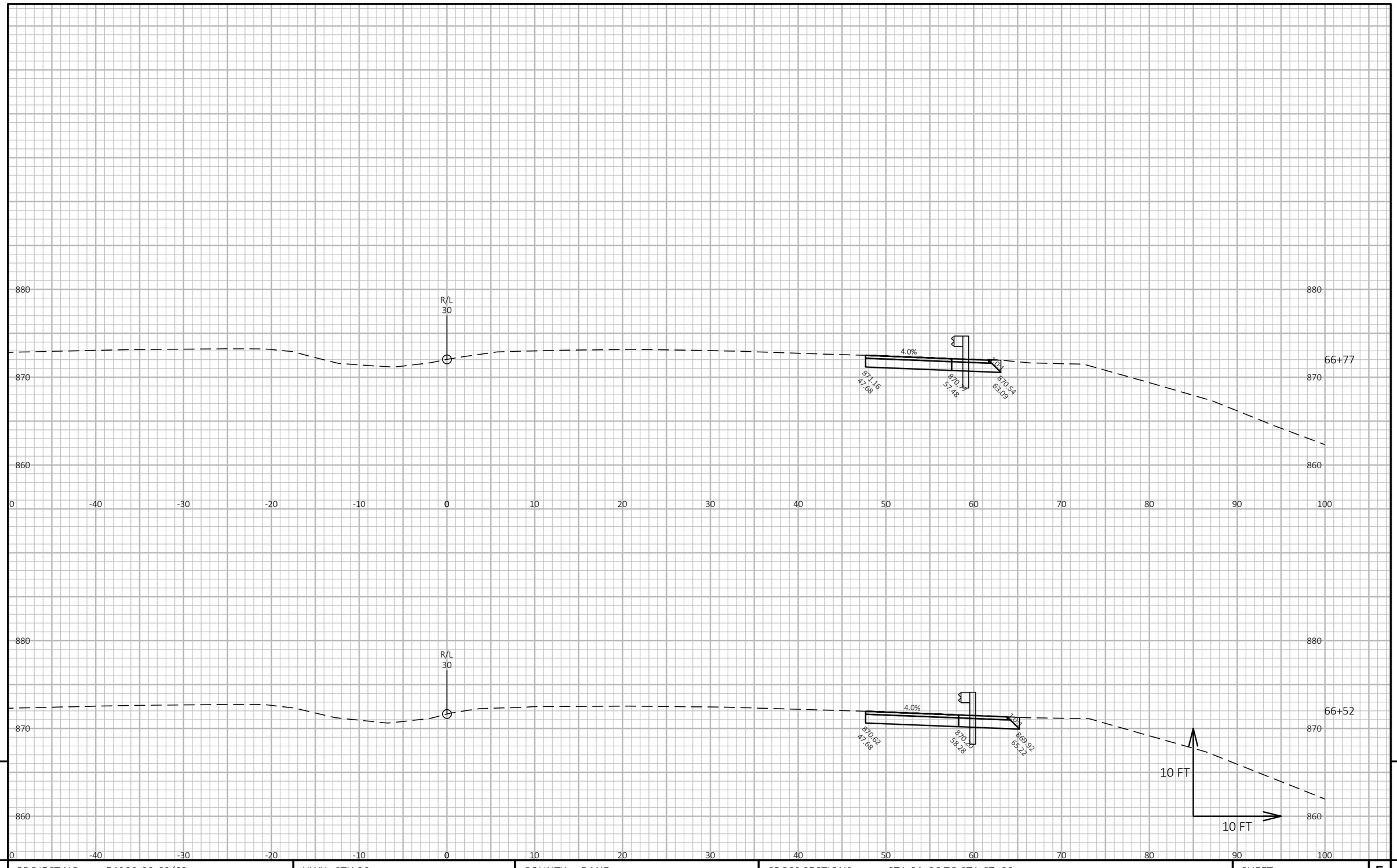
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 64+26 TO STA 67+90	SHEET 277	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs04

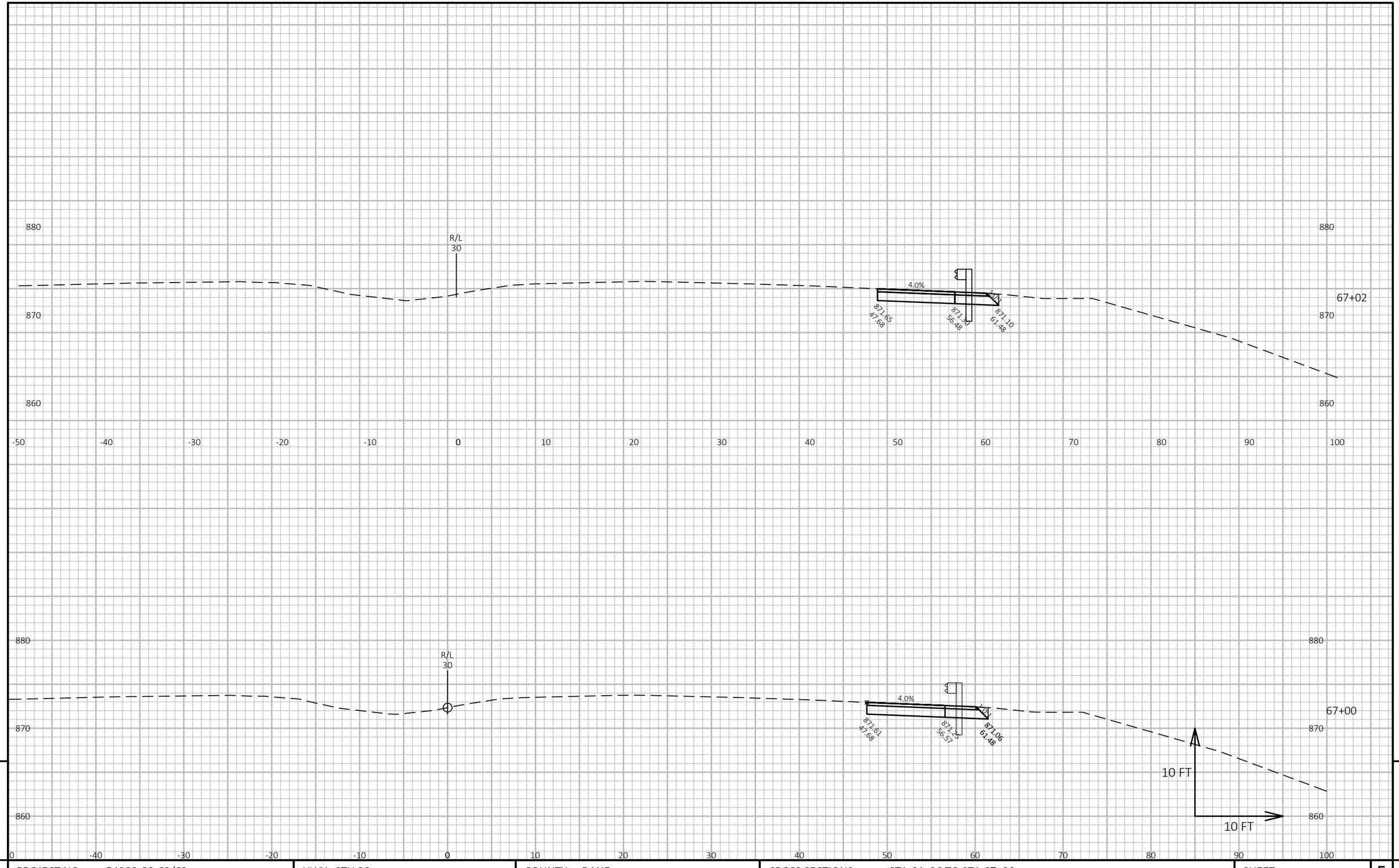
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 64+26 TO STA 67+90	SHEET 278	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs05

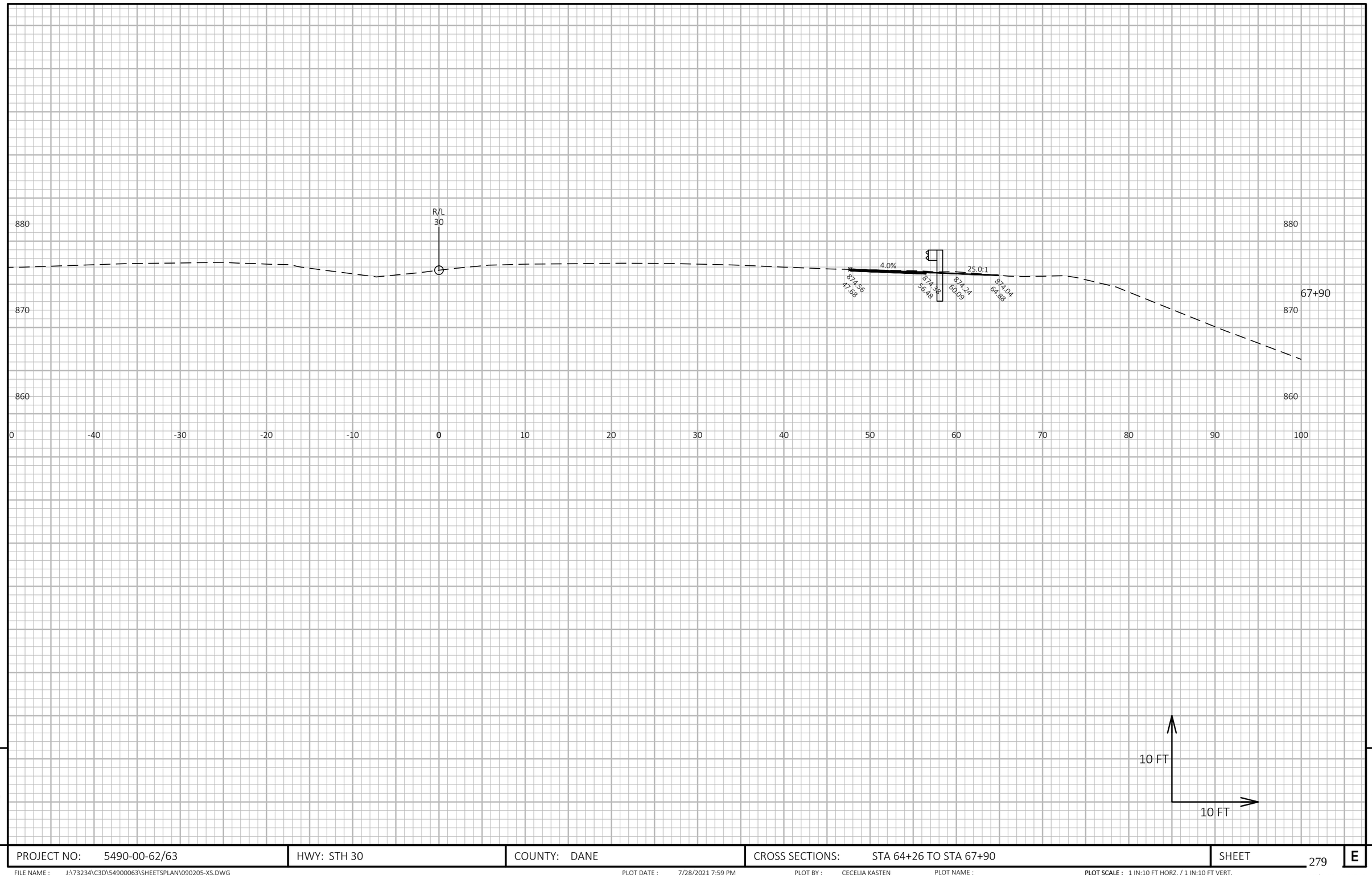
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 64+26 TO STA 67+90	SHEET 279	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs06

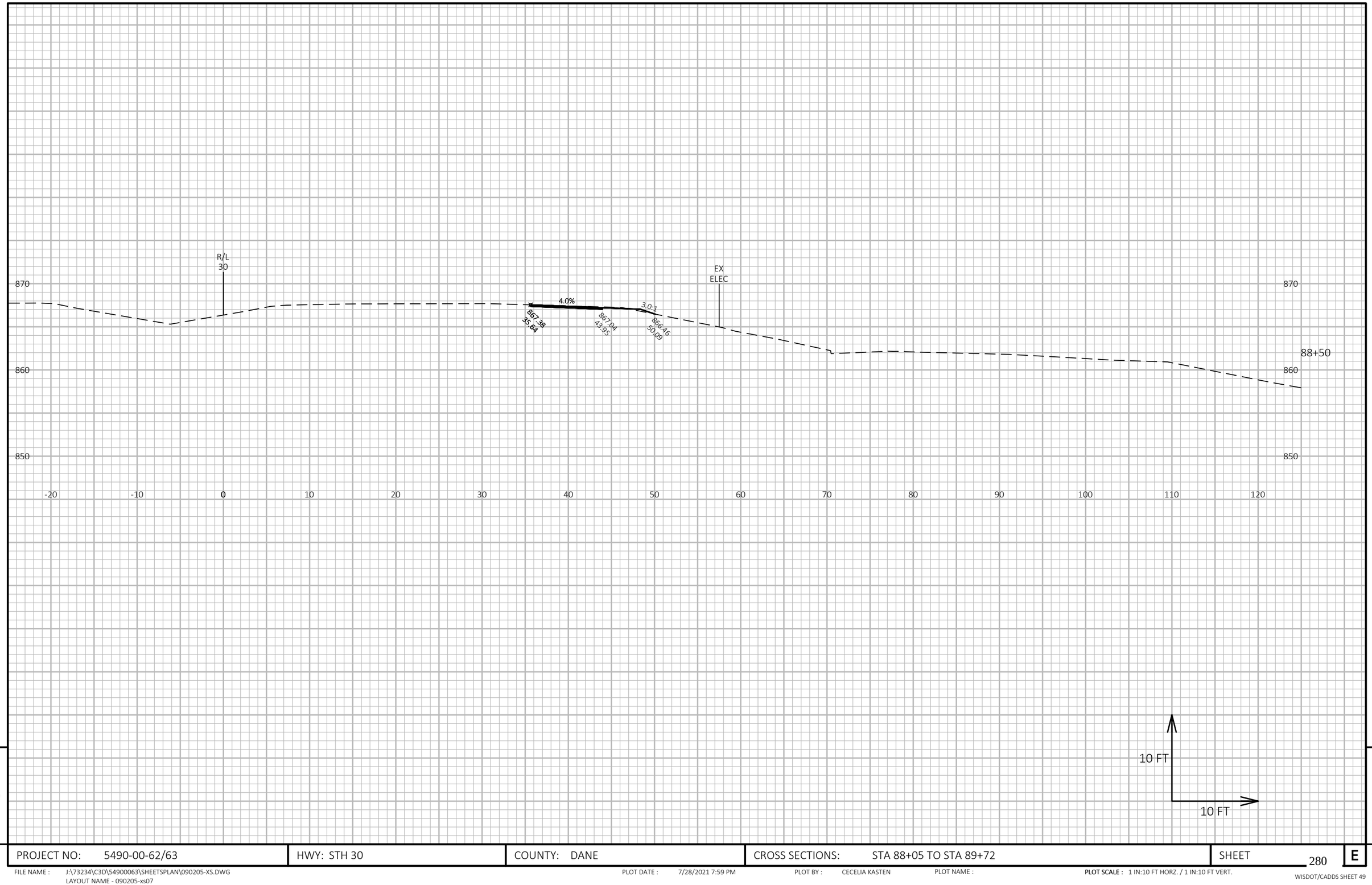
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 88+05 TO STA 89+72	SHEET 280	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs07

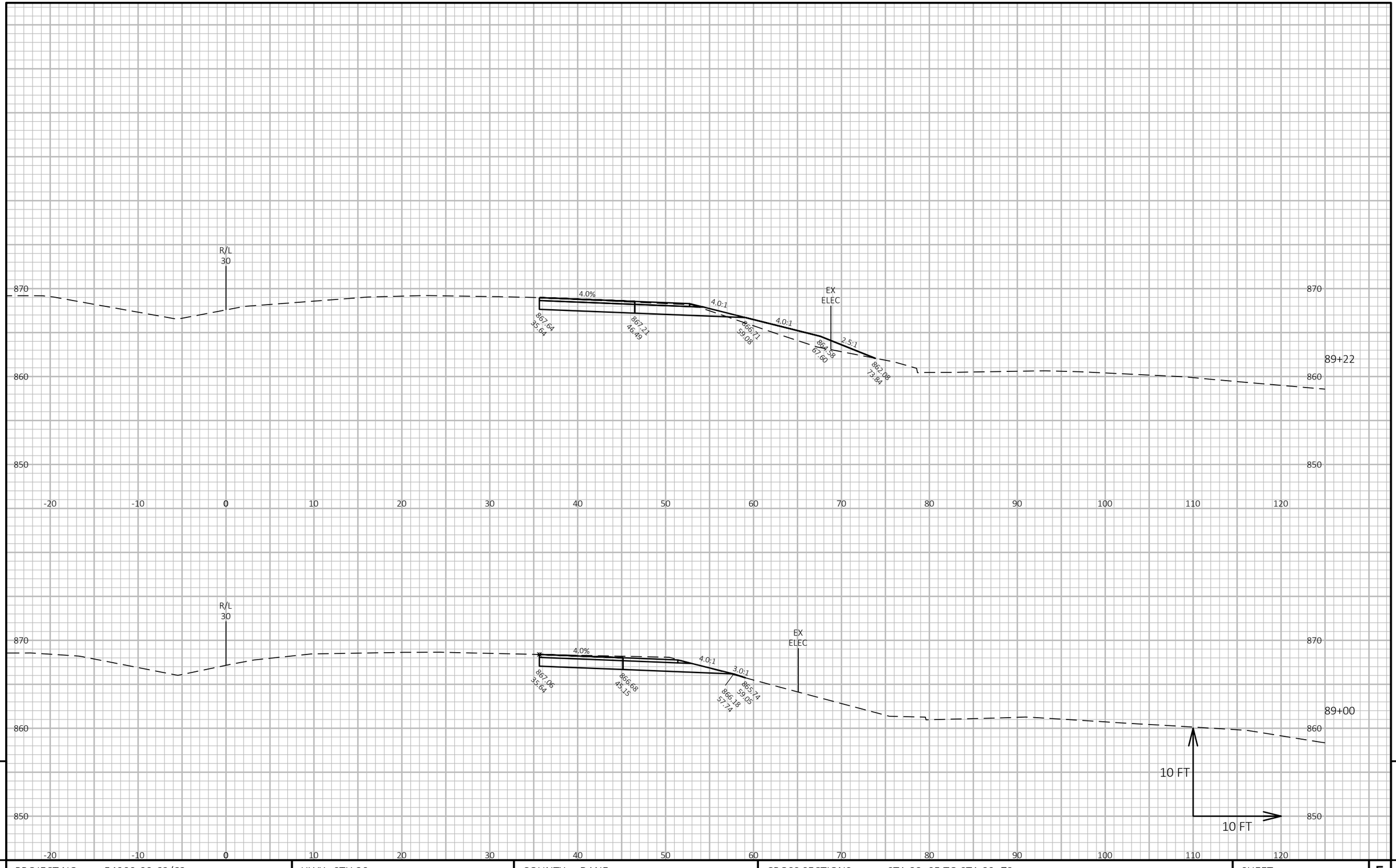
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 88+05 TO STA 89+72	SHEET 281	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs08

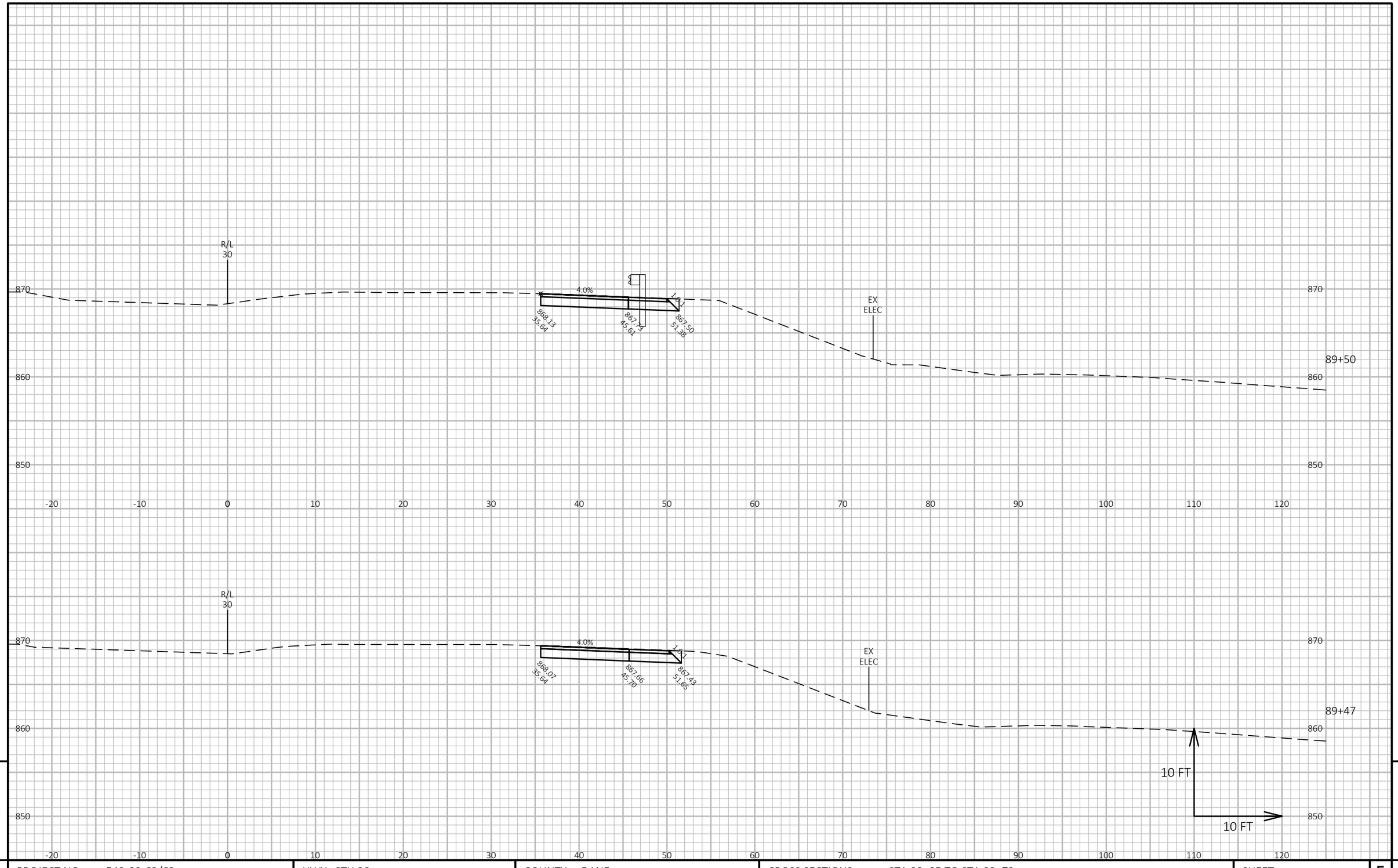
PLOT DATE : 7/28/2021 7:59 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 549-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 88+05 TO STA 89+72	SHEET 282	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs09

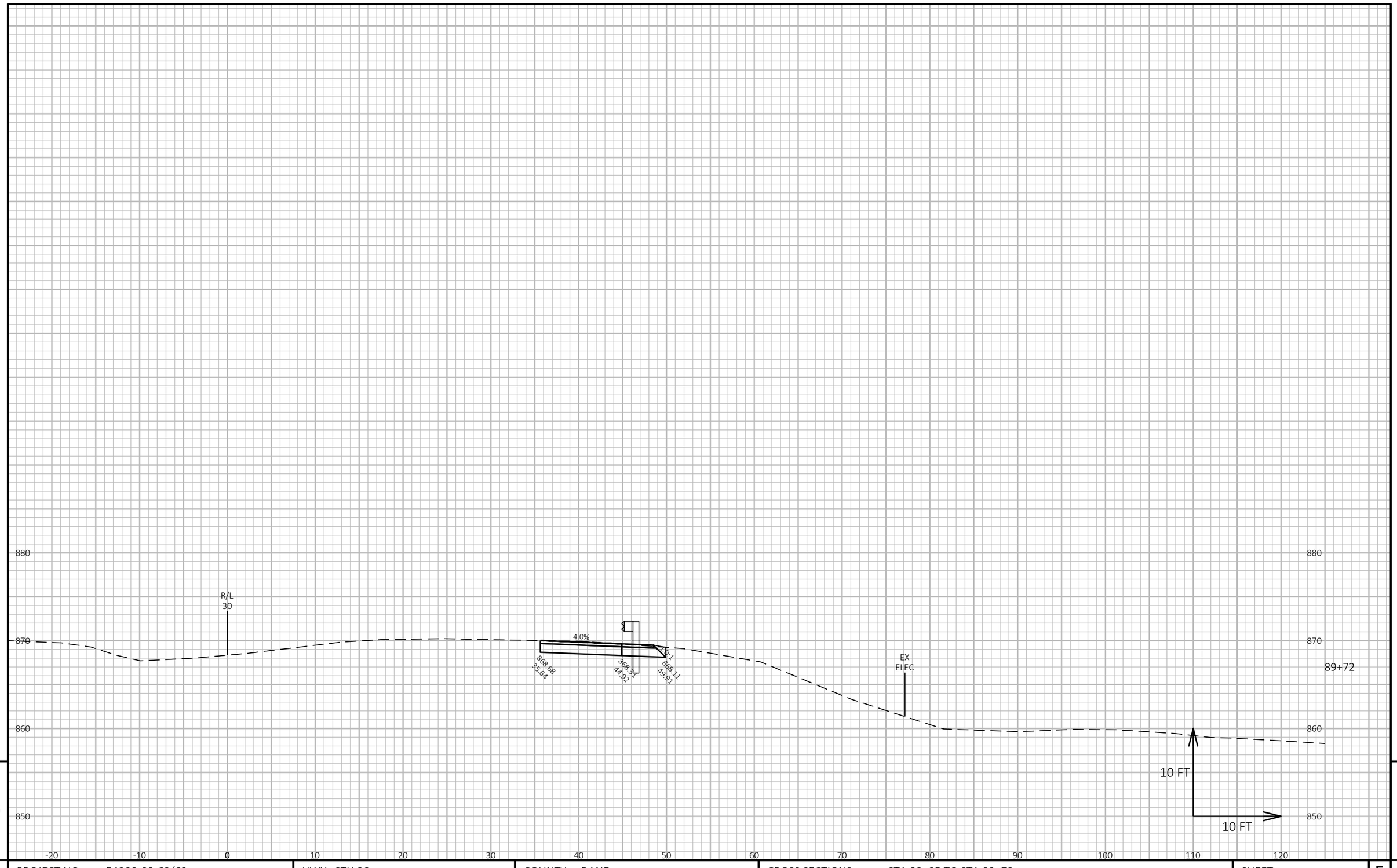
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 54900-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 88+05 TO STA 89+72	SHEET 283	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs10

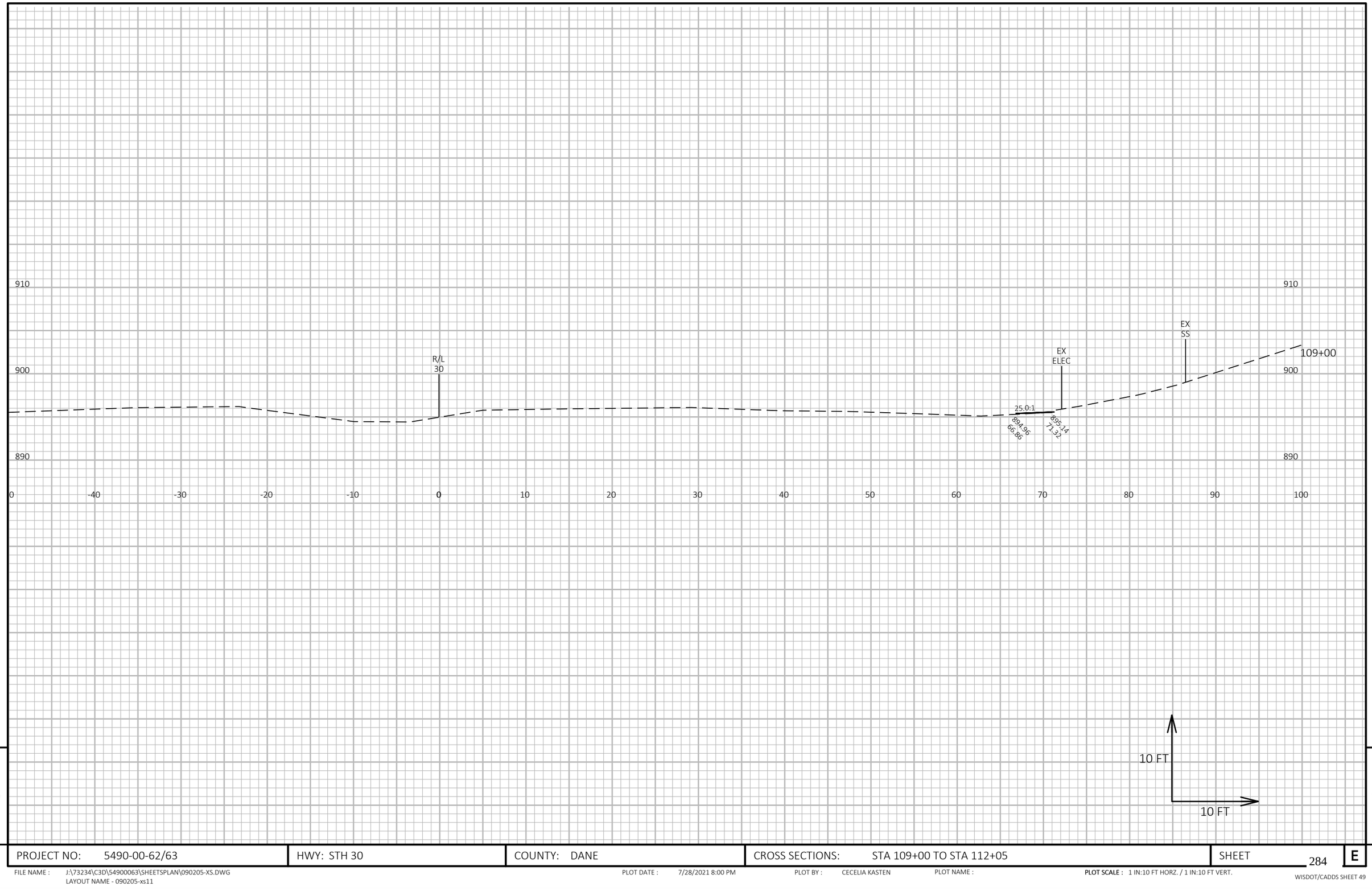
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 284	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs11

PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

910

900

890

R/L
30

EX
ELEC

EX
SS

25.0:1

7.0:1

899.46
73.73

898.72
71.86

897.81
64.95

897.85
64.29

109+98

-50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

10 FT

10 FT

9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 285	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs12

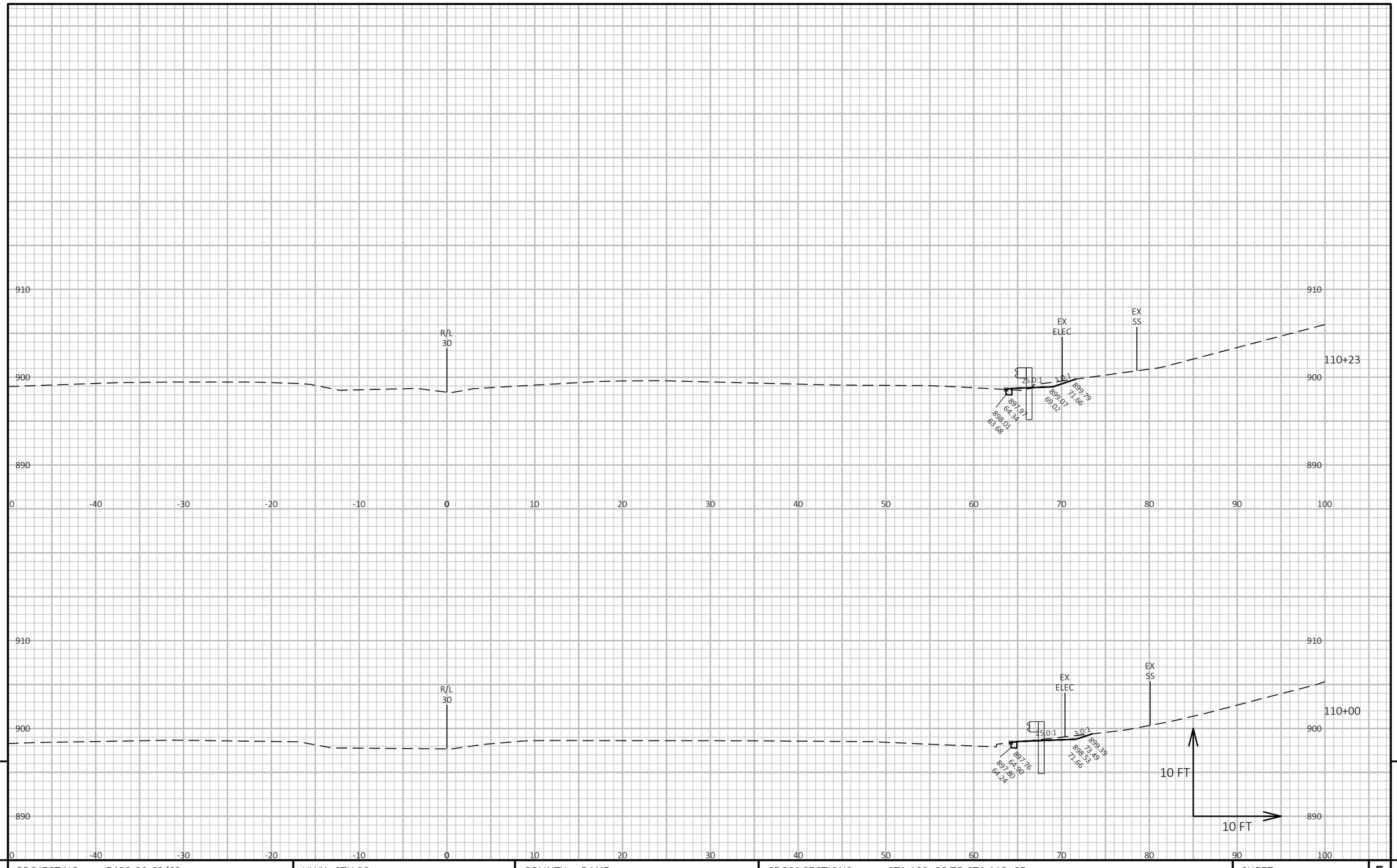
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 286	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs13

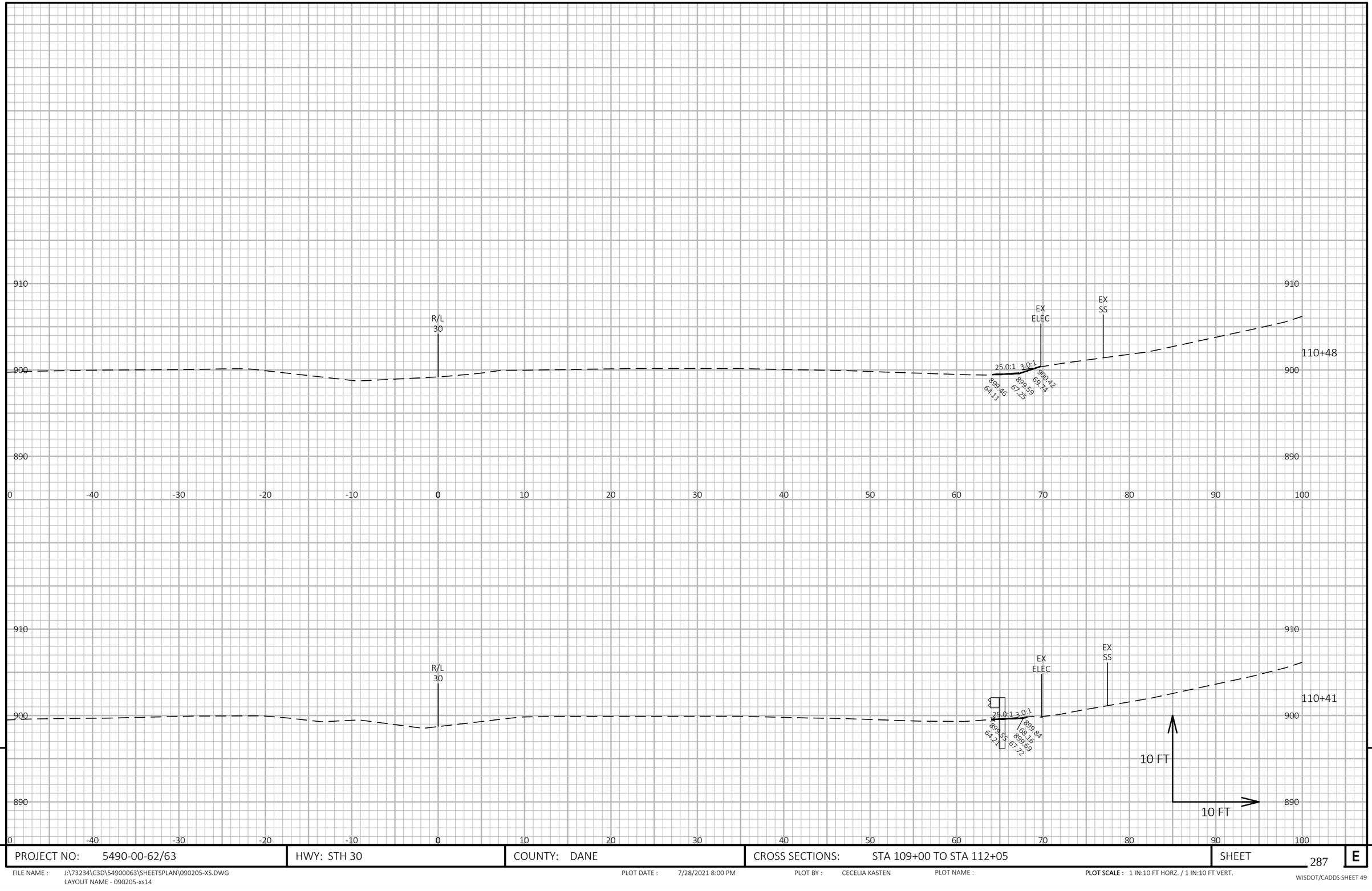
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 287	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs14

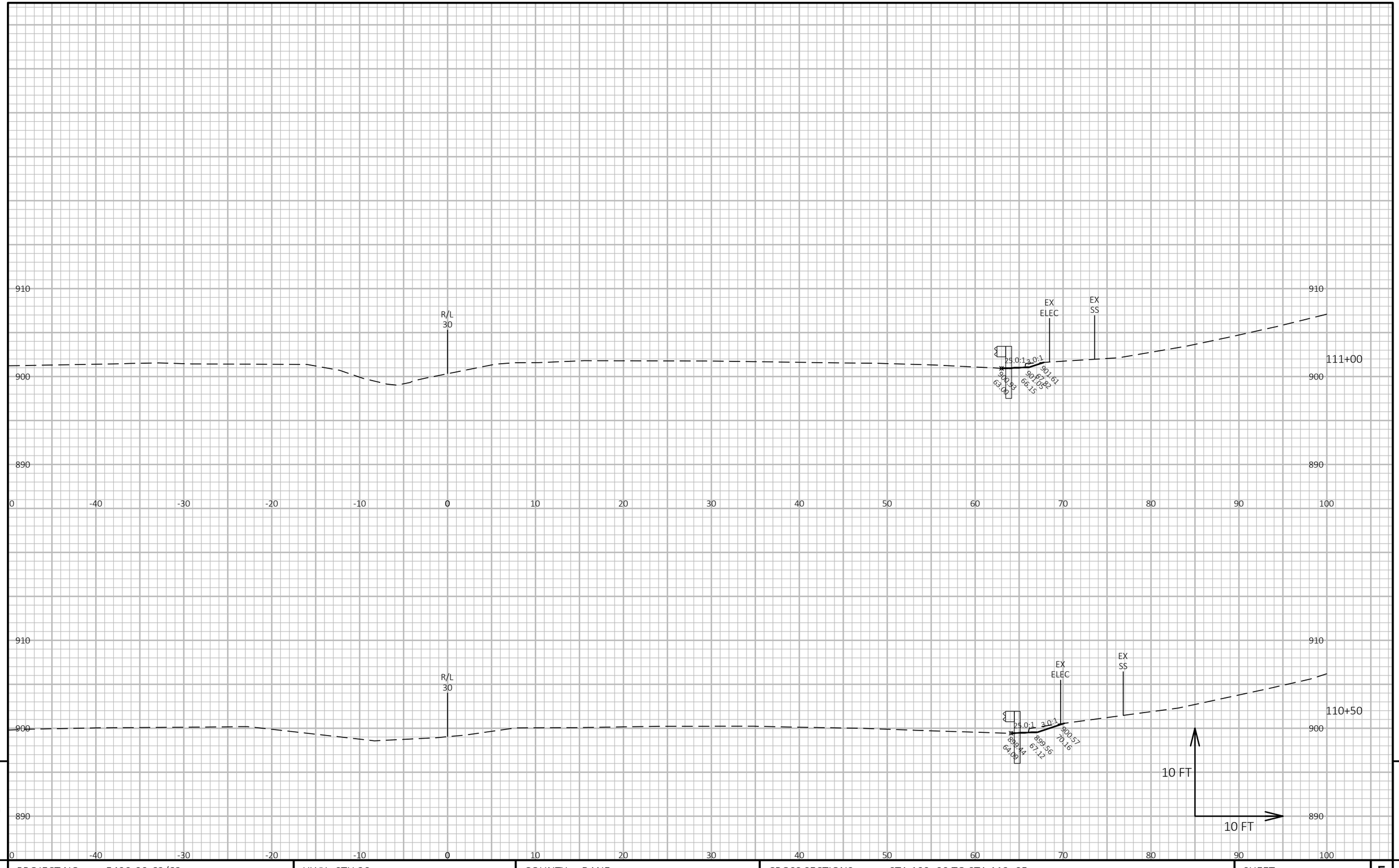
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 288	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs15

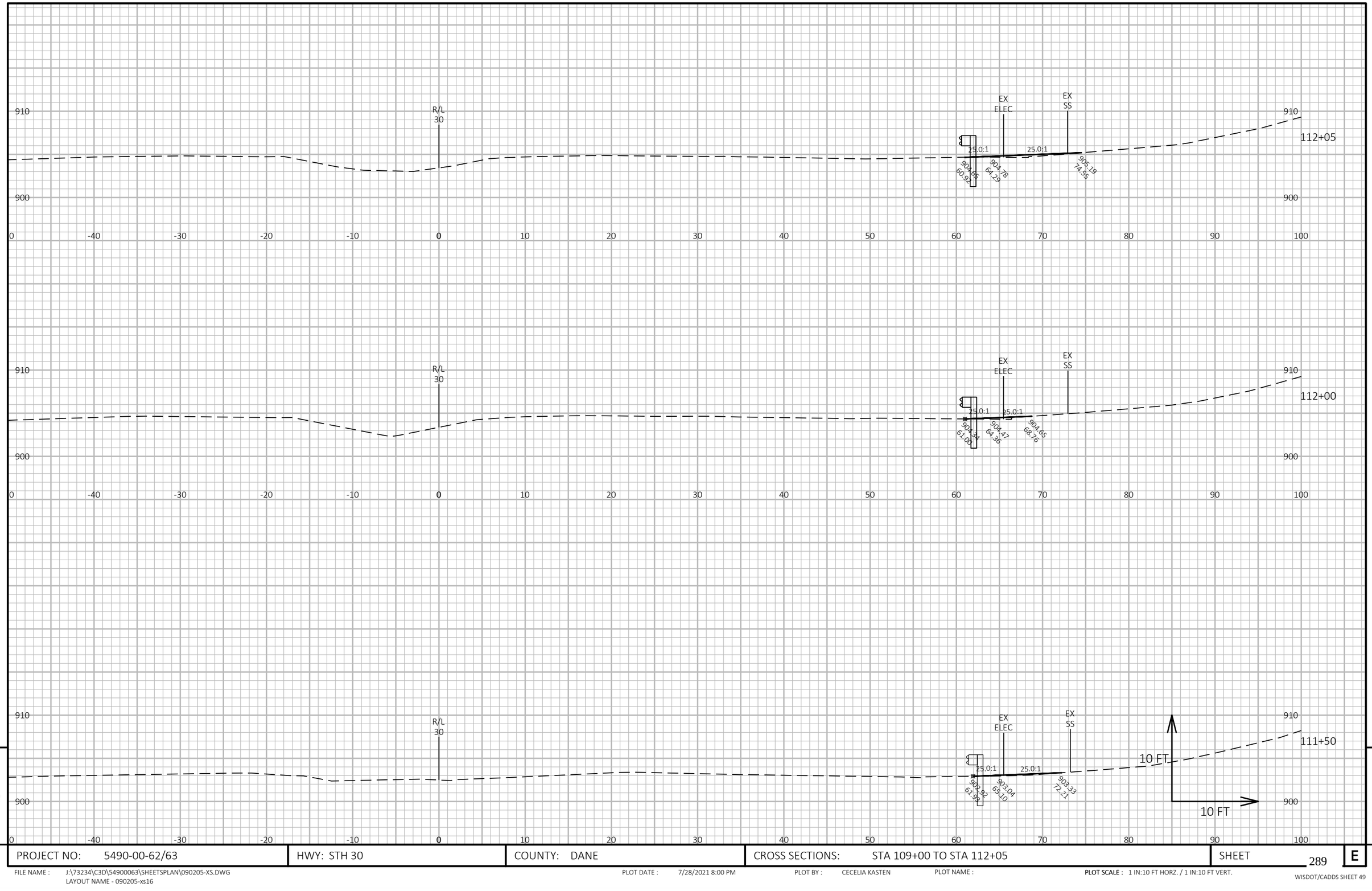
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+00 TO STA 112+05	SHEET 289	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs16

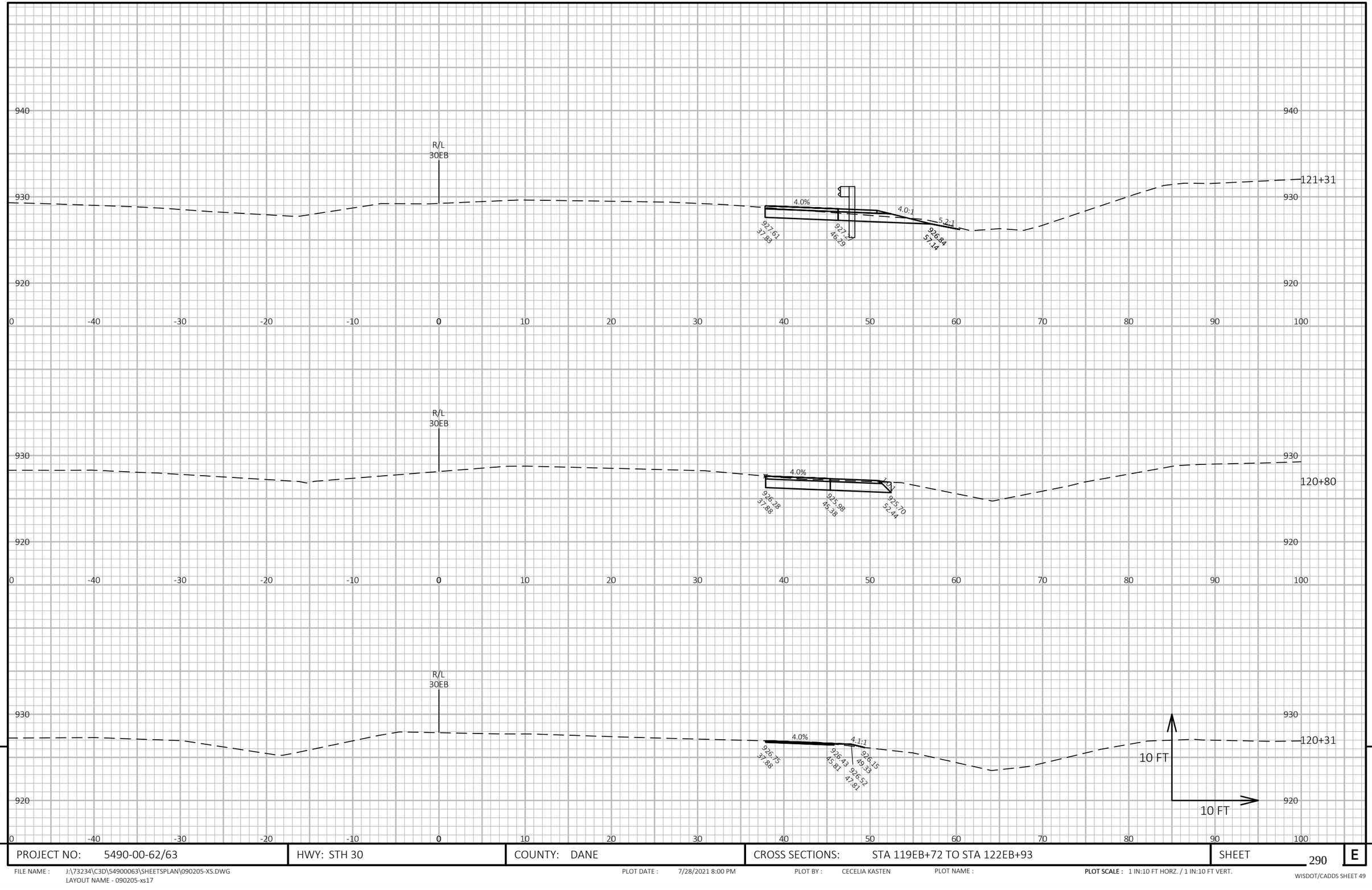
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 119EB+72 TO STA 122EB+93	SHEET 290	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs17

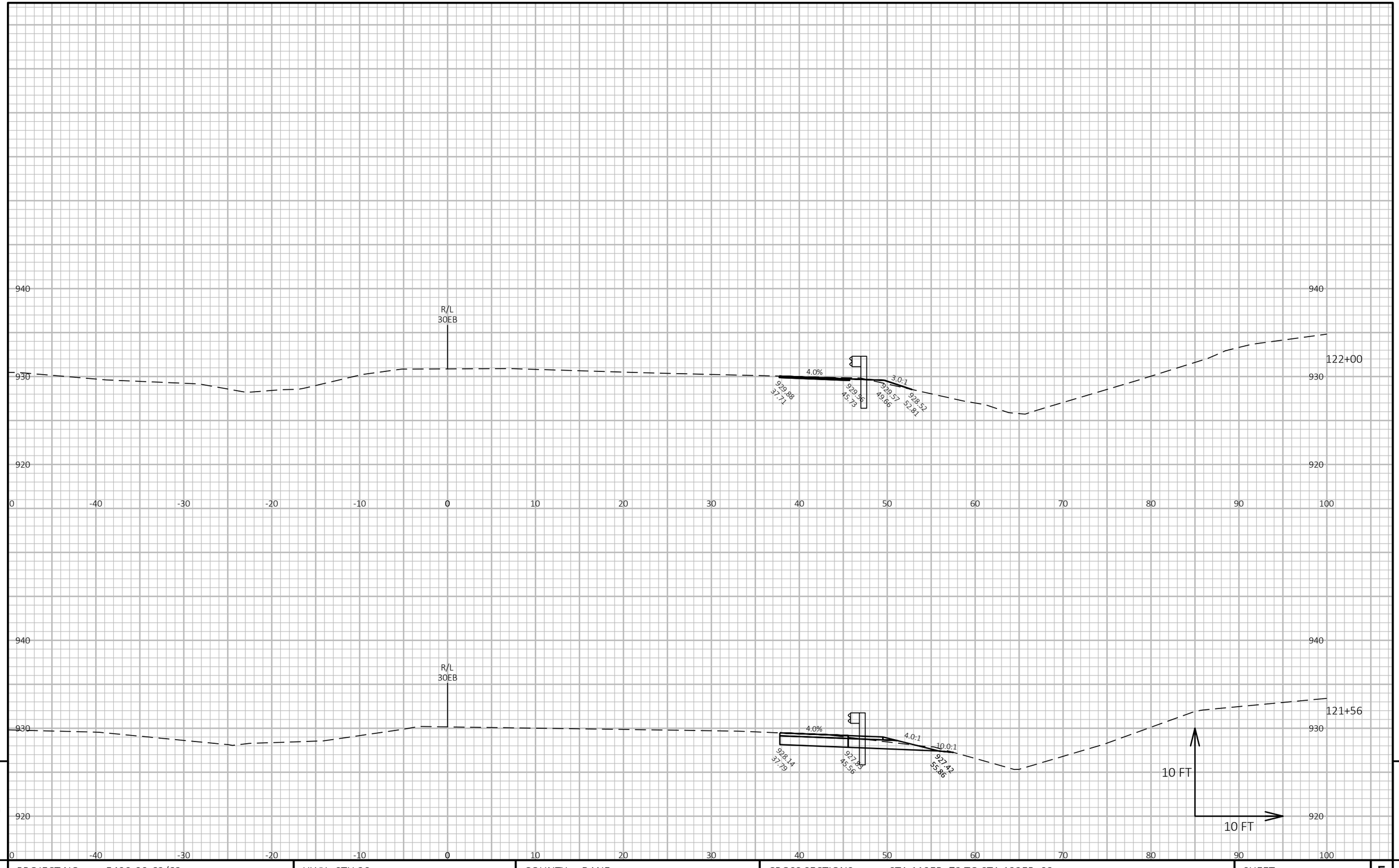
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 119EB+72 TO STA 122EB+93	SHEET 291	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs18

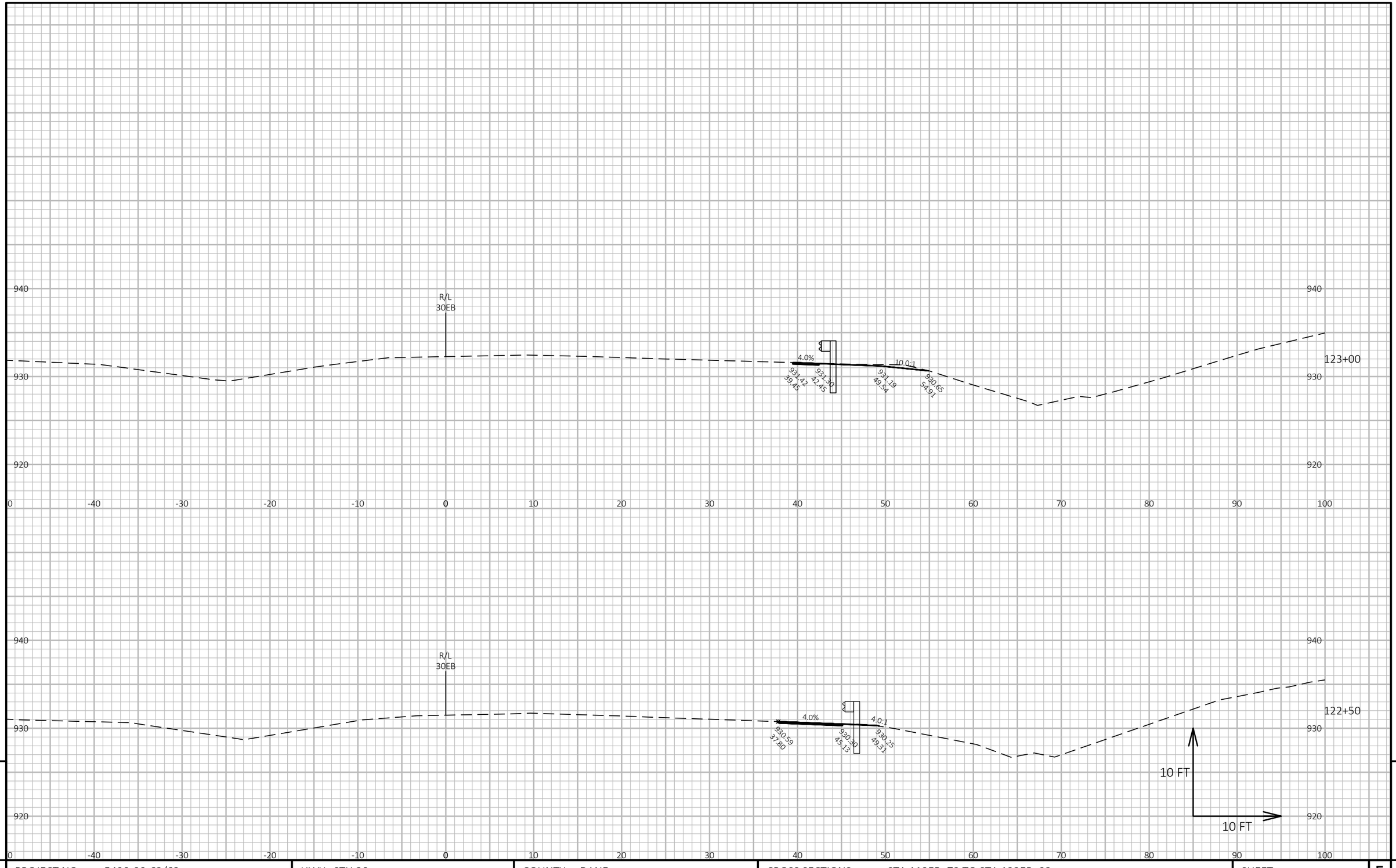
PLOT DATE : 7/28/2021 8:00 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 119EB+72 TO STA 122EB+93	SHEET 292	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs19

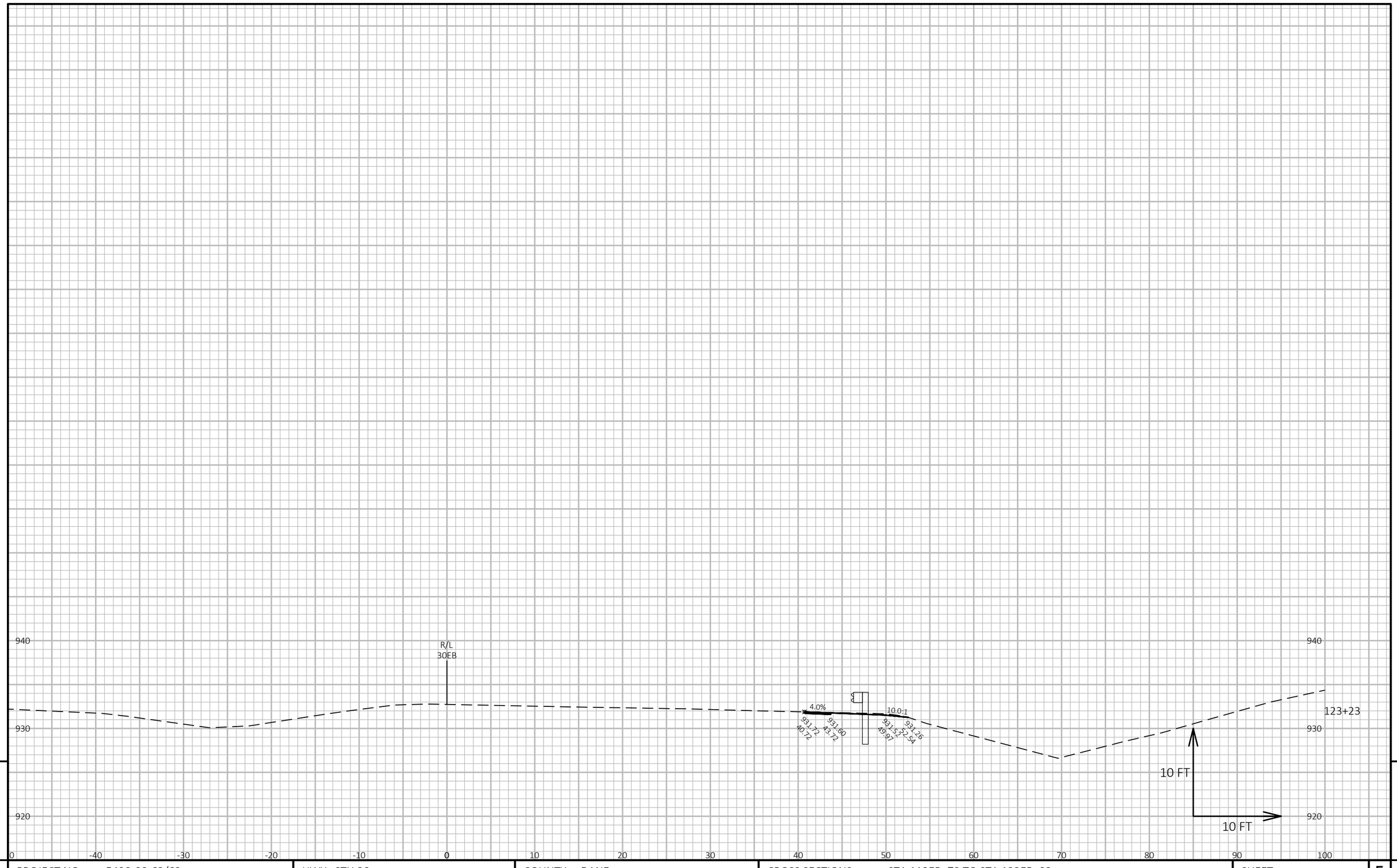
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 119EB+72 TO STA 122EB+93	SHEET 293	E

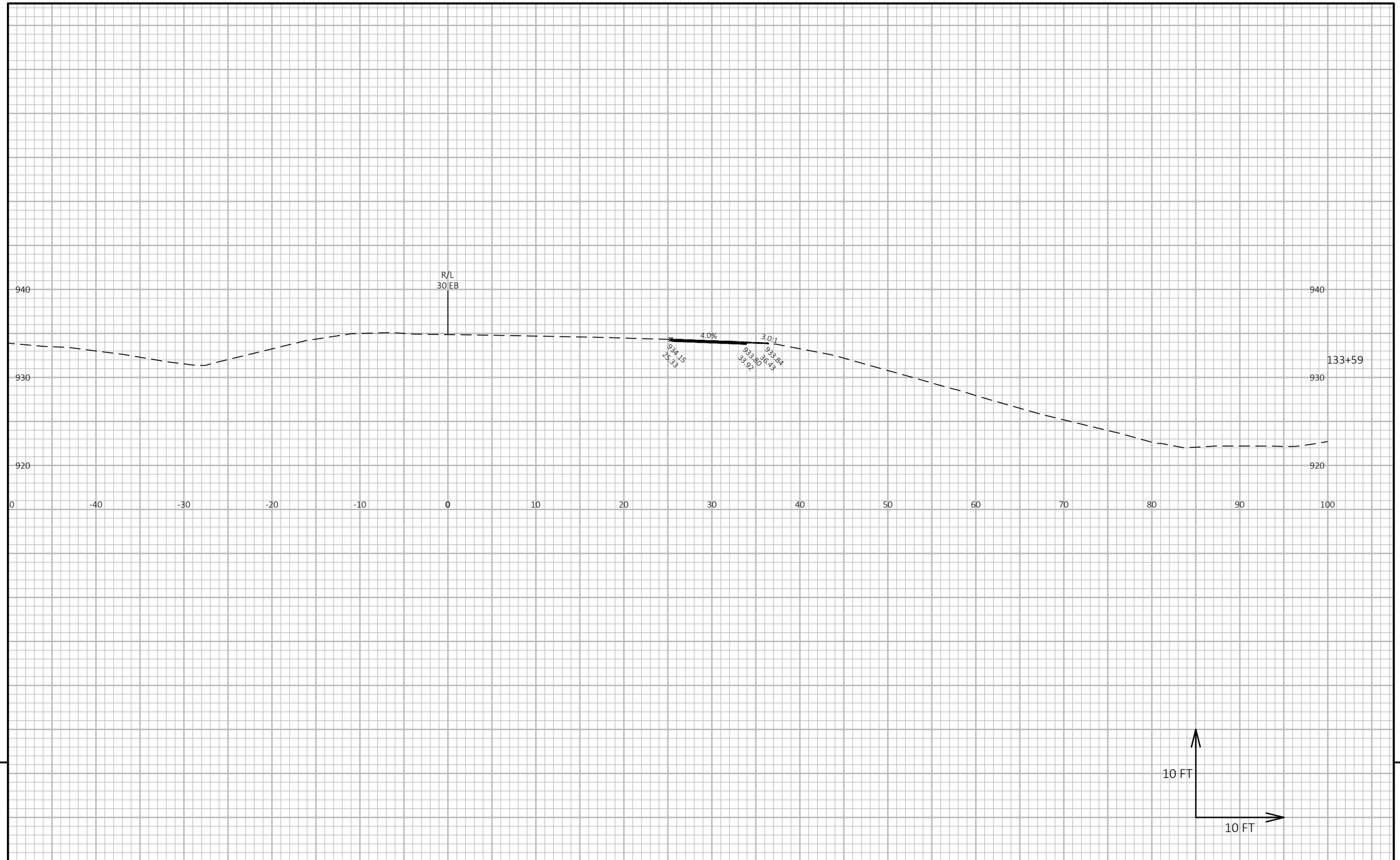
FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090205-XS.DWG
LAYOUT NAME - 090205-xs20

PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 133+38 TO STA 135+00	SHEET 294	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs01

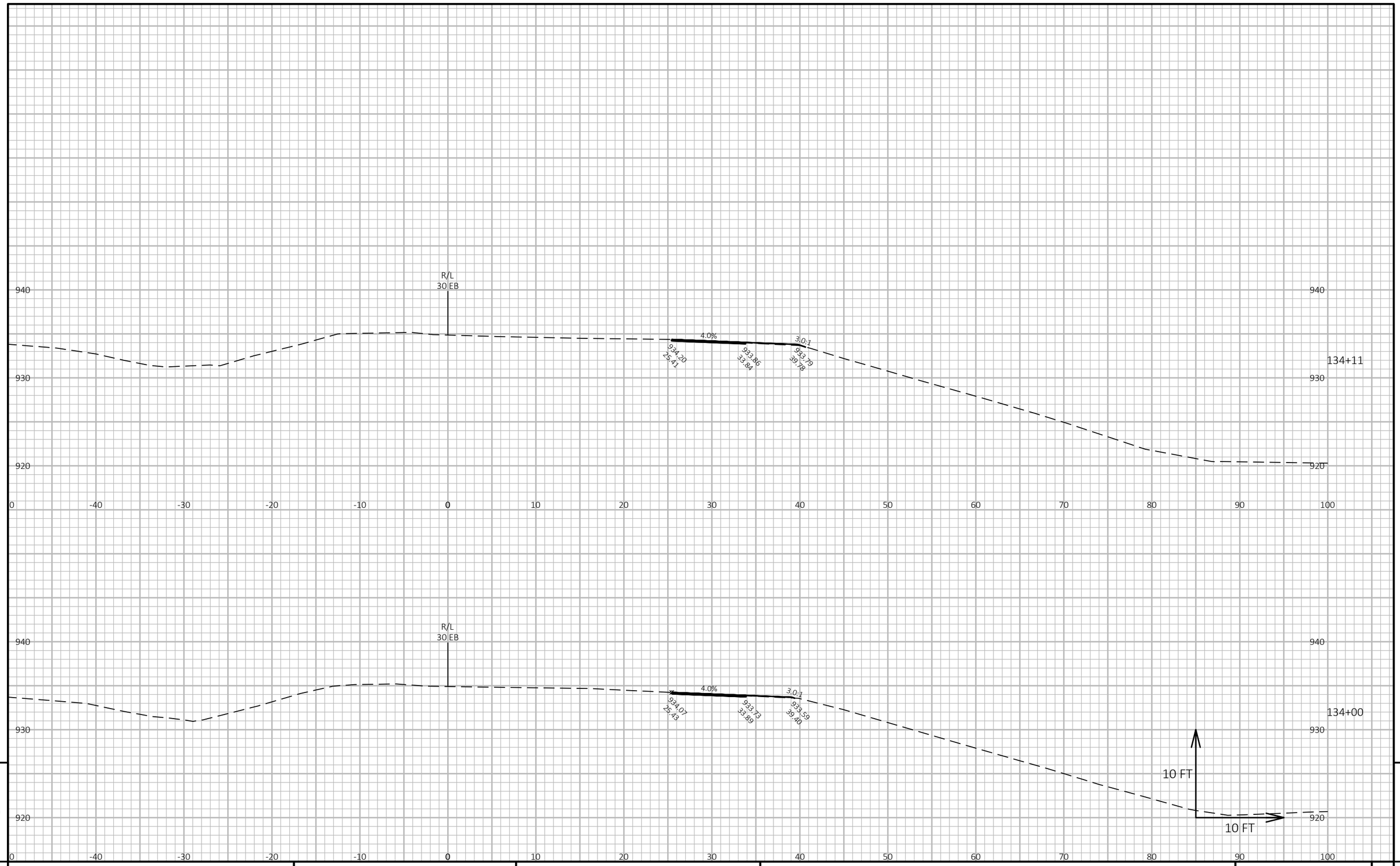
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 133+38 TO STA 135+00	SHEET 295	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs02

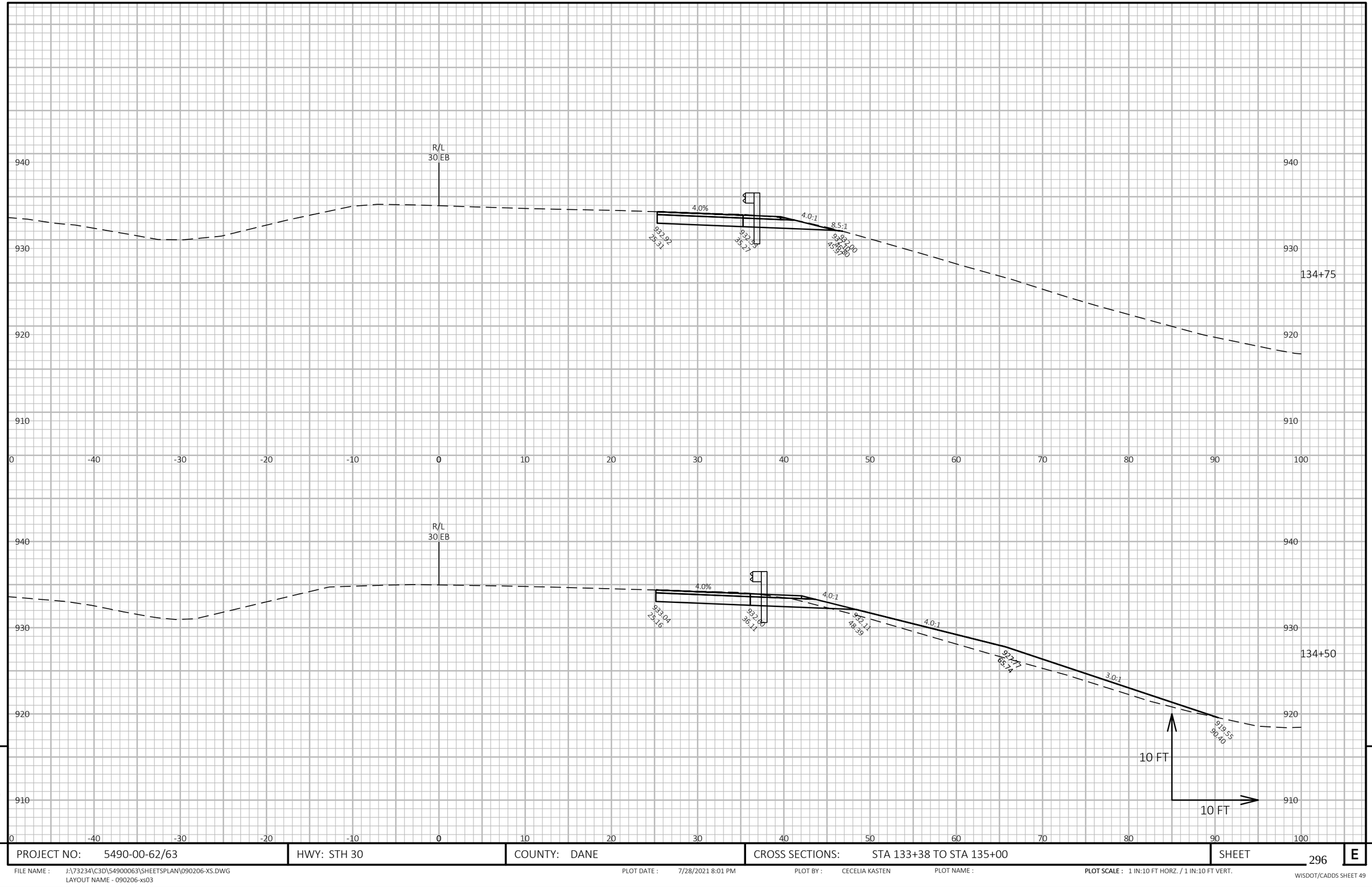
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 133+38 TO STA 135+00	SHEET 296	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs03

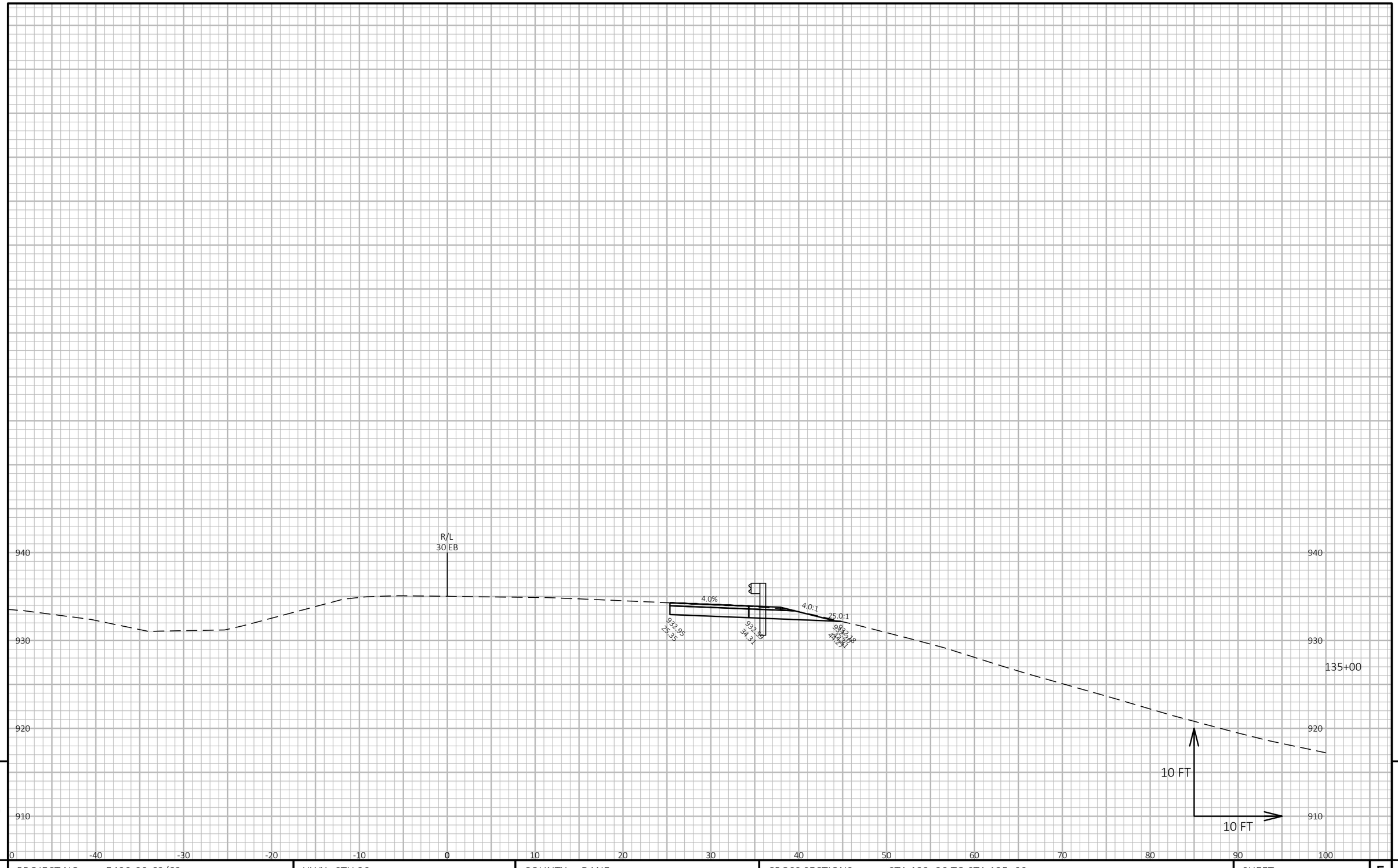
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 133+38 TO STA 135+00	SHEET 297	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs04

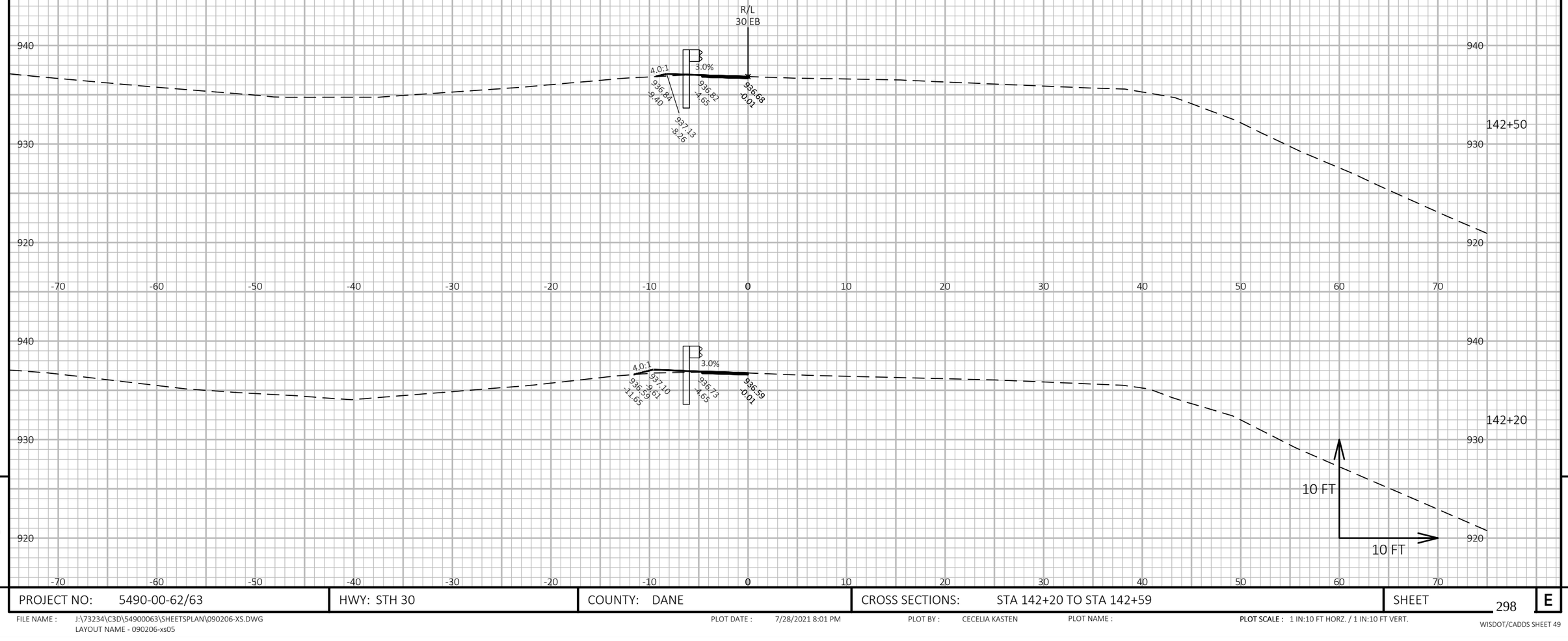
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 142+20 TO STA 142+59	SHEET 298	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs05

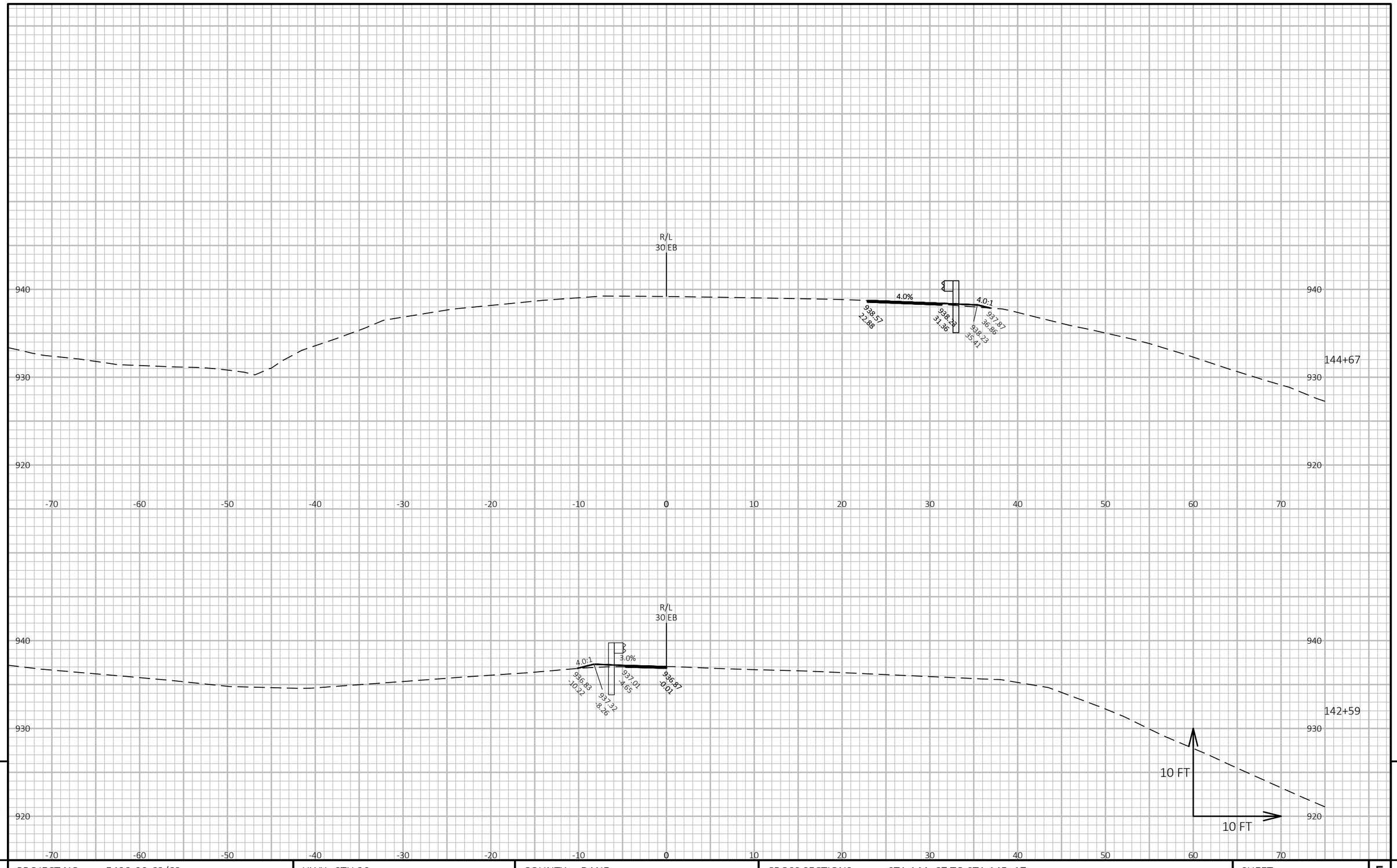
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 144+67 TO STA 145+17	SHEET 299	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs06

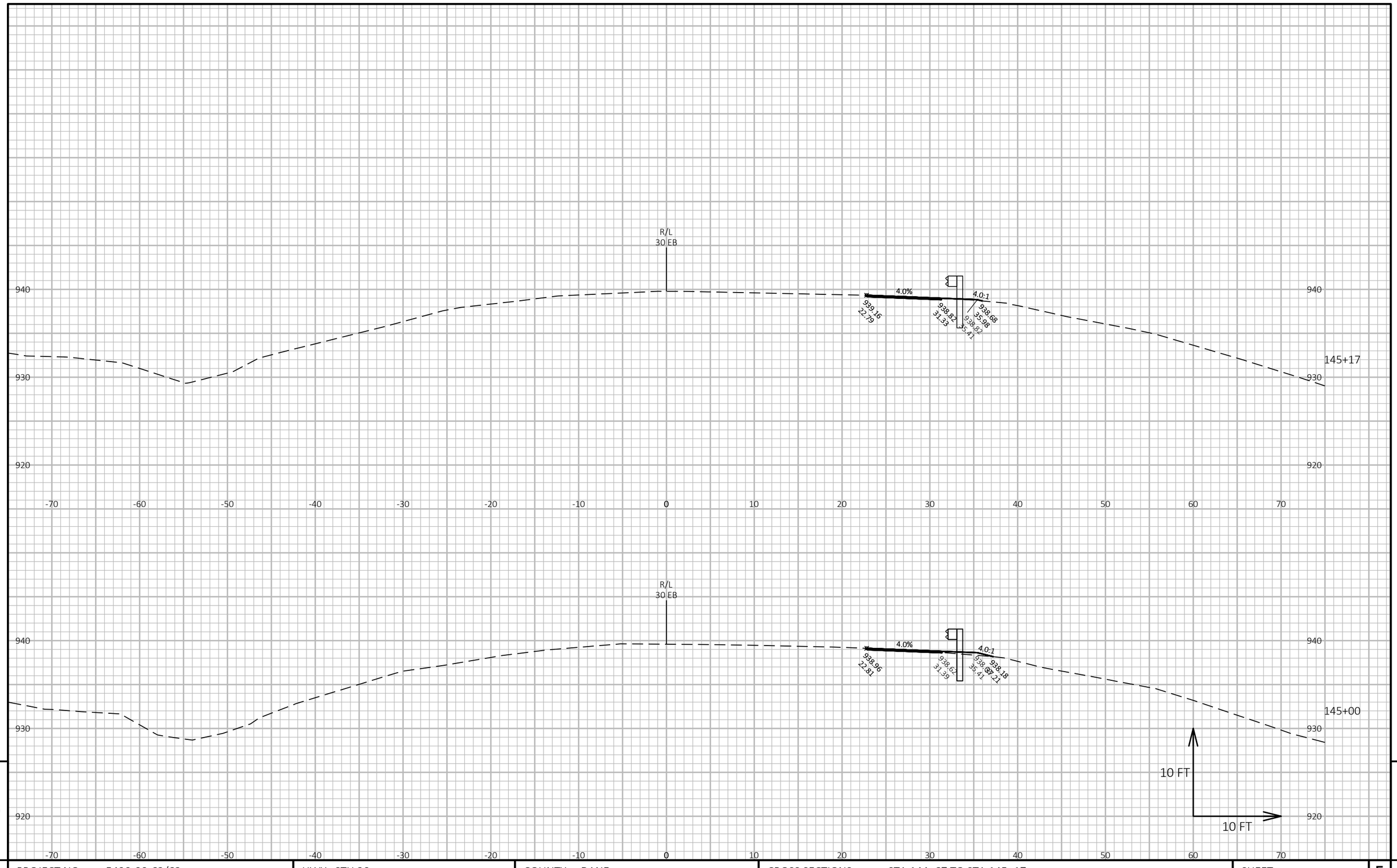
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



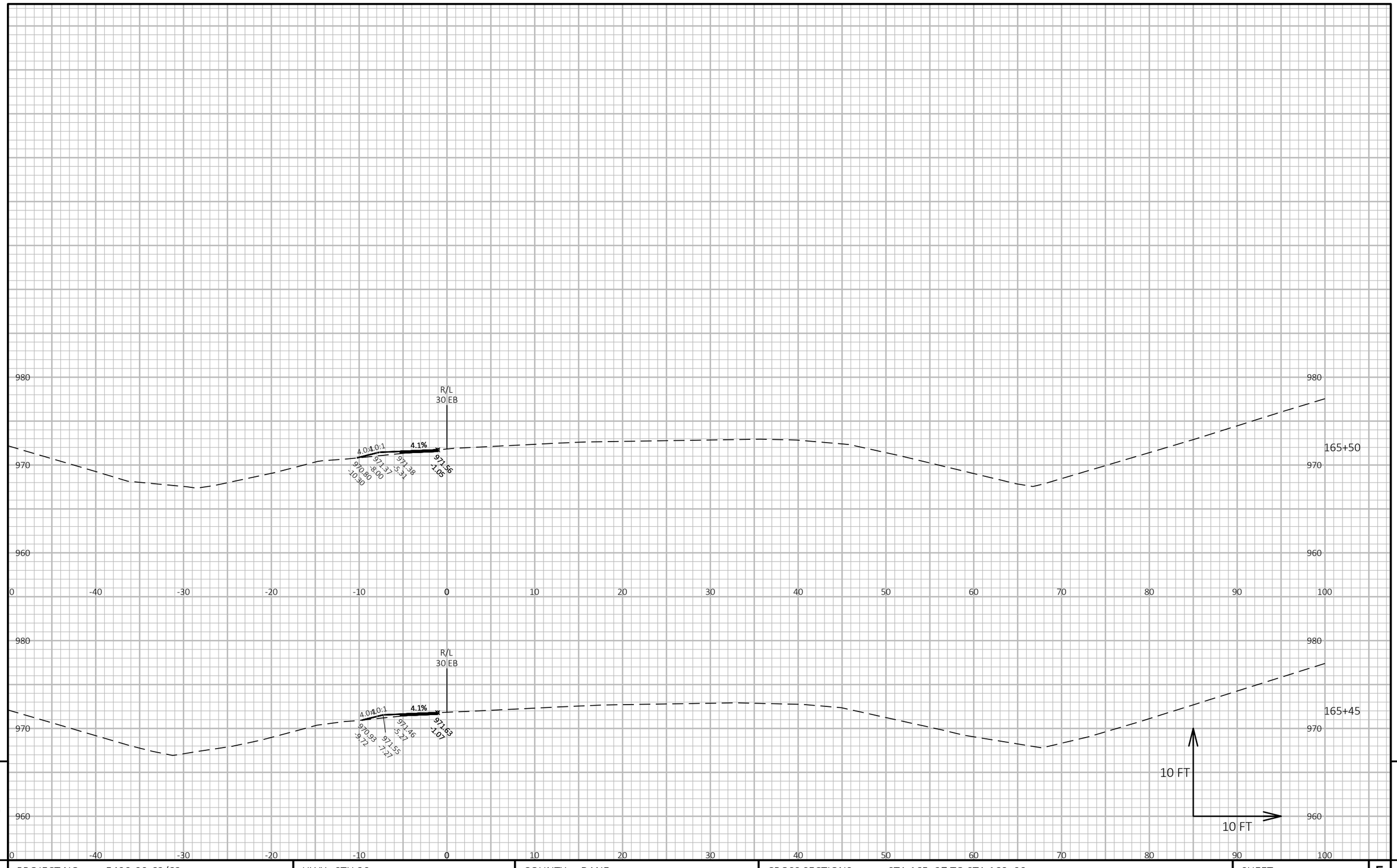
9 9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 144+67 TO STA 145+17	SHEET 300	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs07

PLOT DATE : 7/28/2021 8:01 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 301	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs08

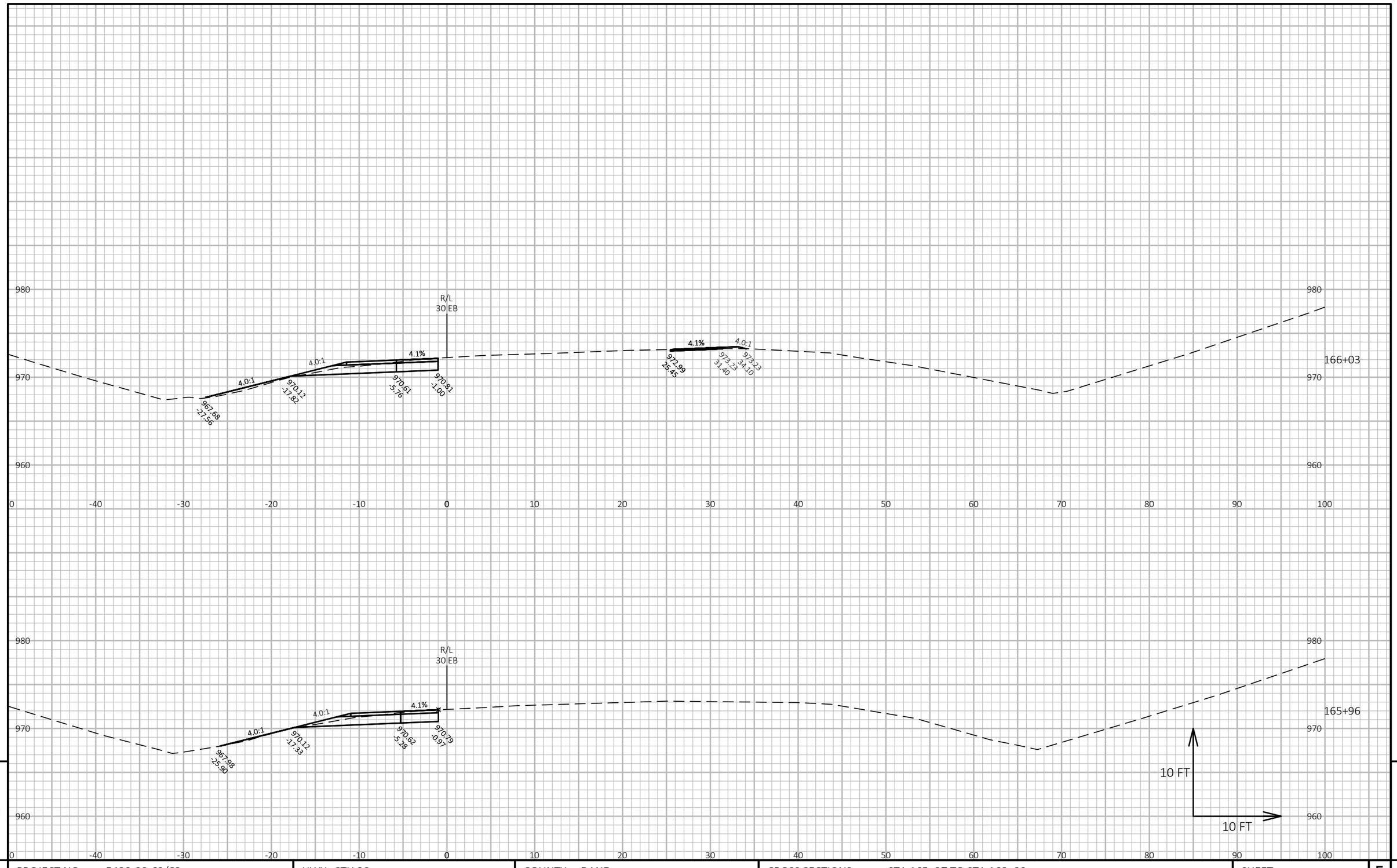
PLOT DATE : 7/28/2021 8:01 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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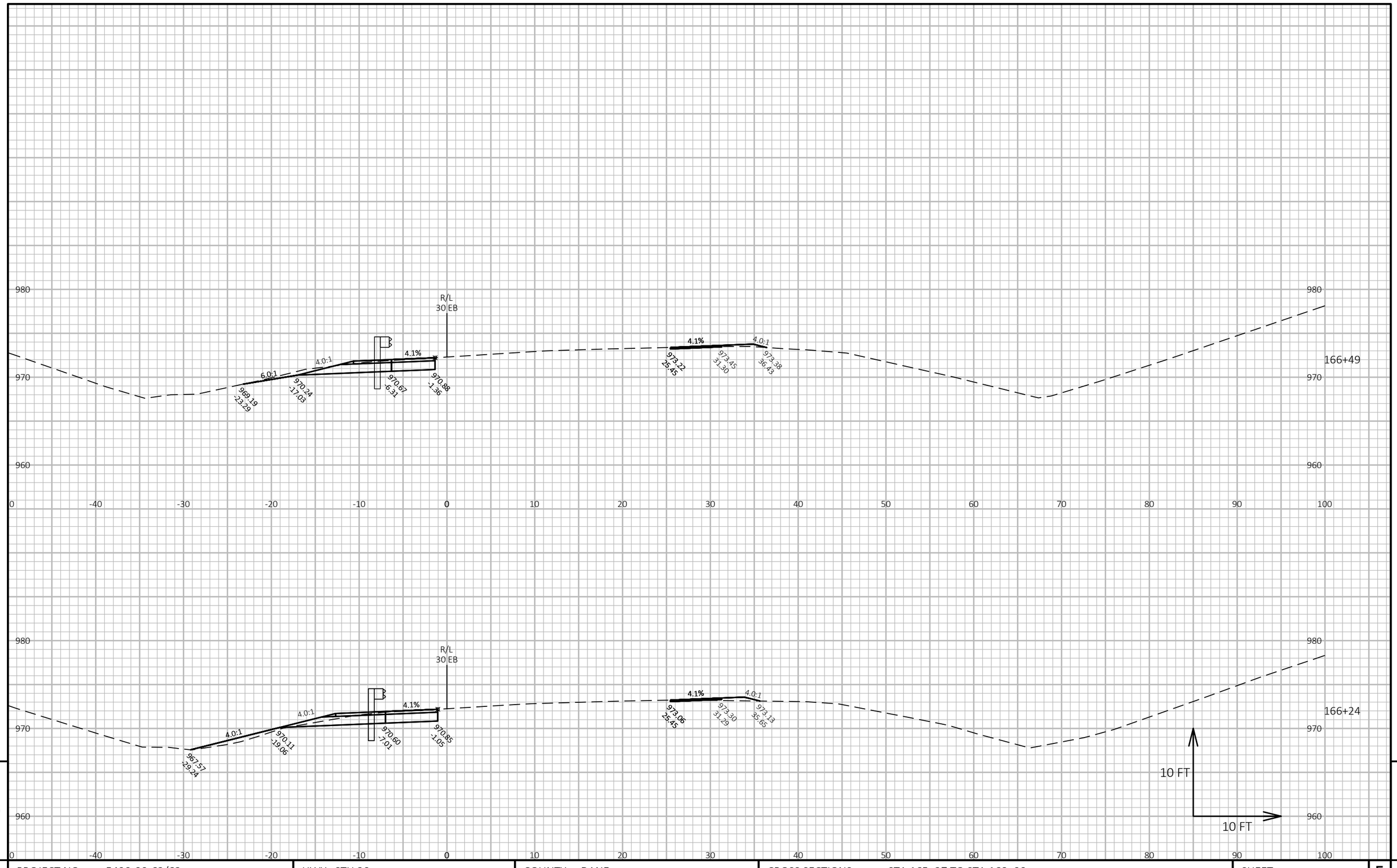
PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 302	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs09

PLOT DATE : 7/28/2021 8:01 PM PLOT BY : CECELIA KASTEN PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 303	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs10

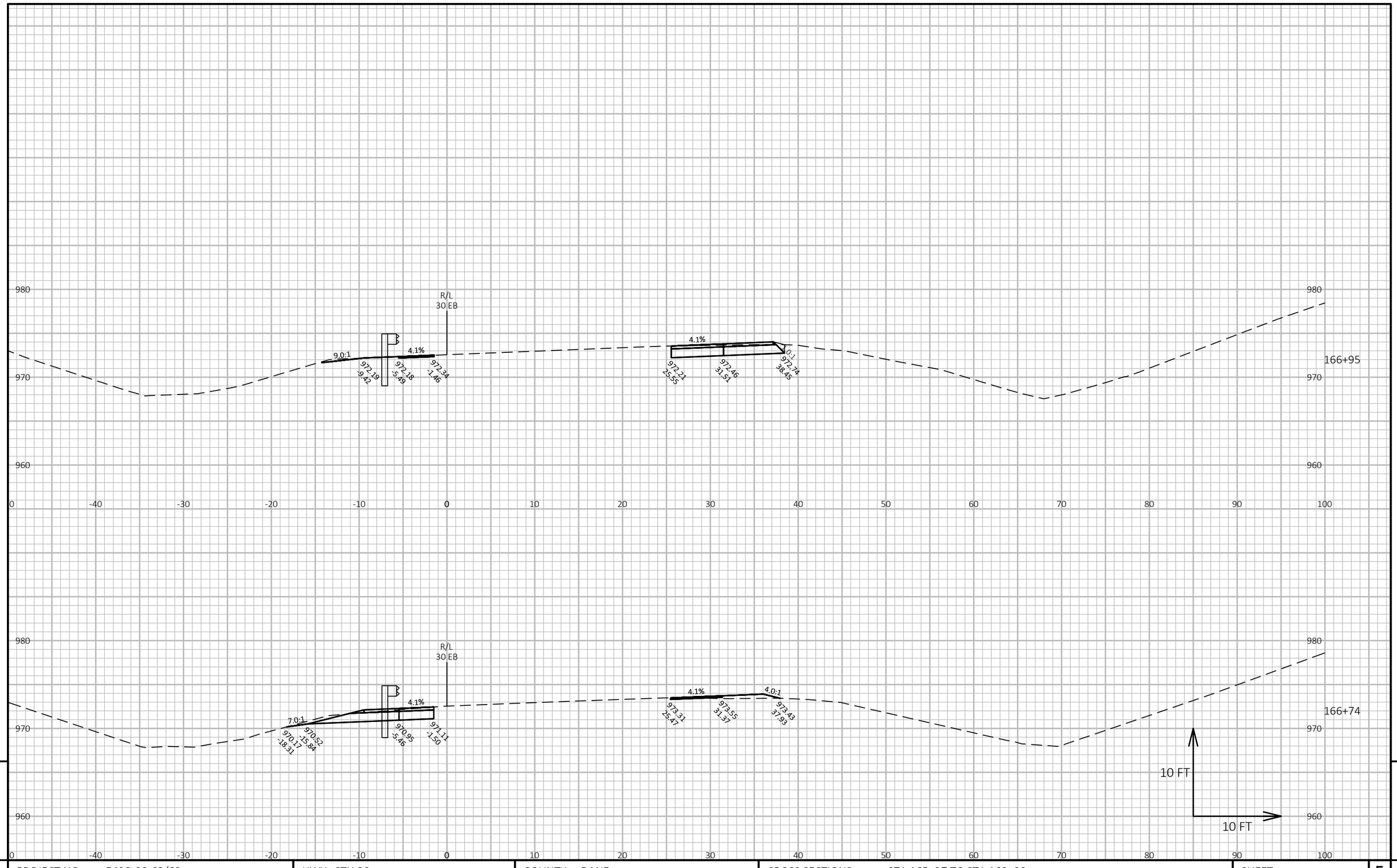
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 304 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs11

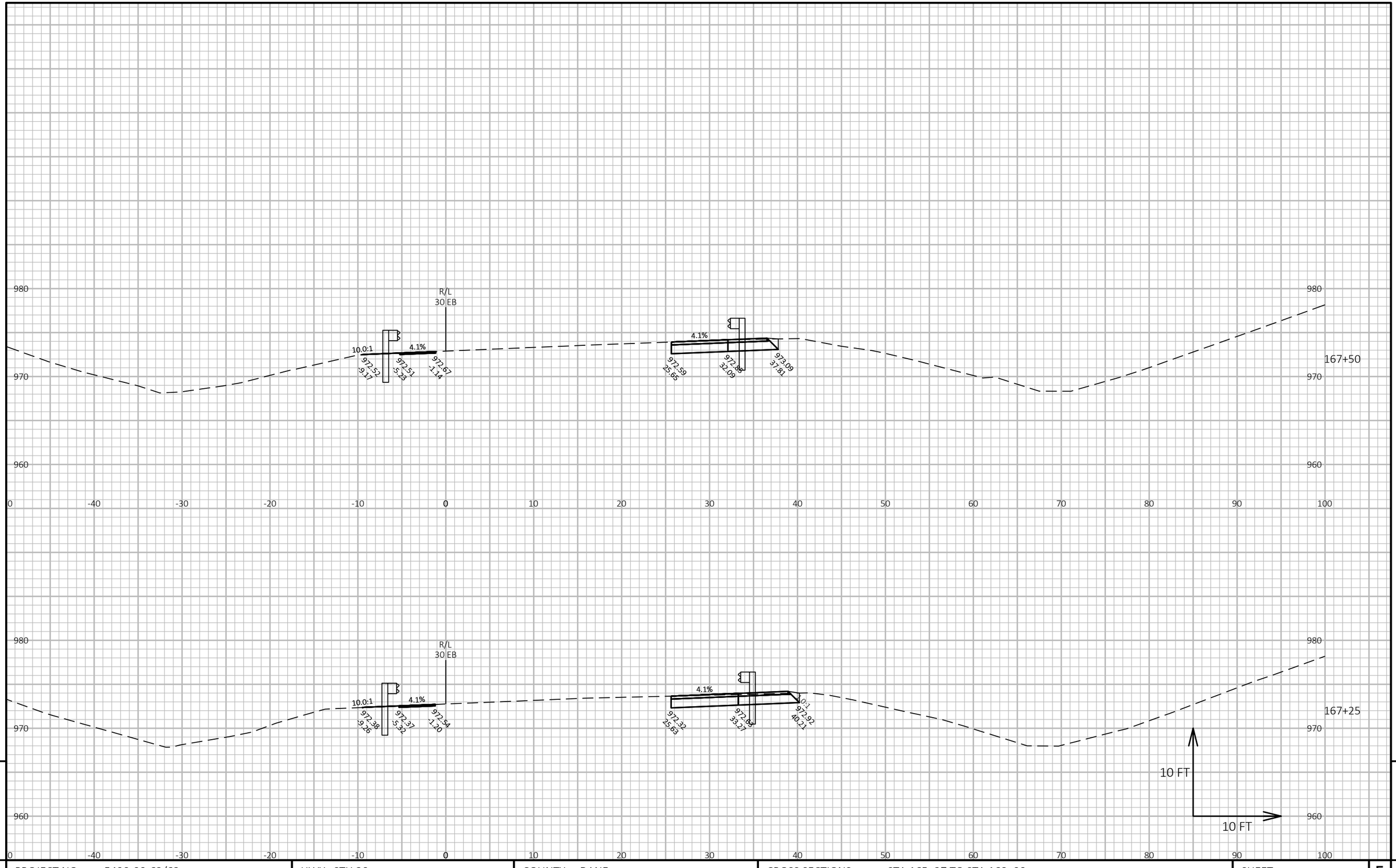
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 305	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs12

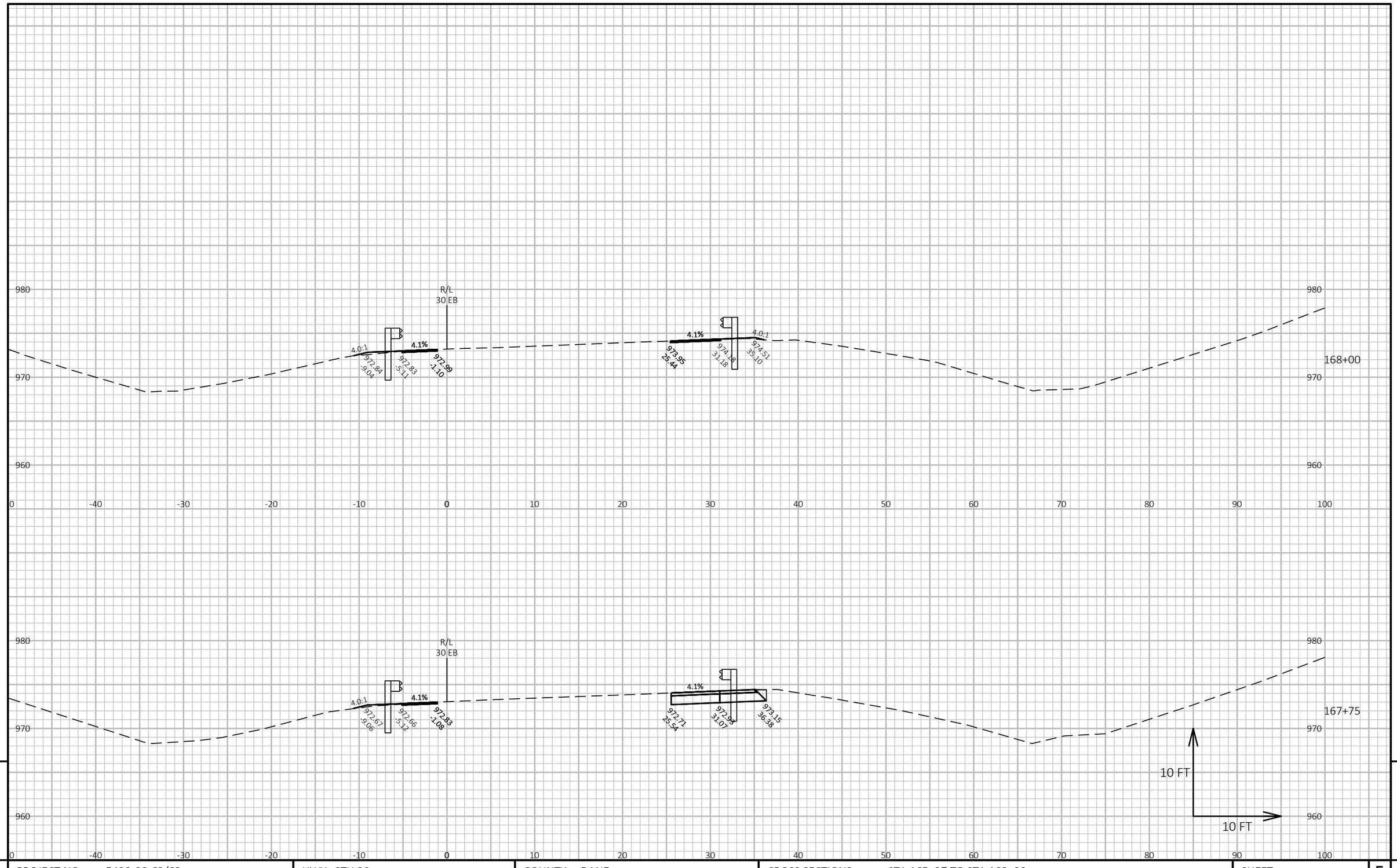
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 306	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs13

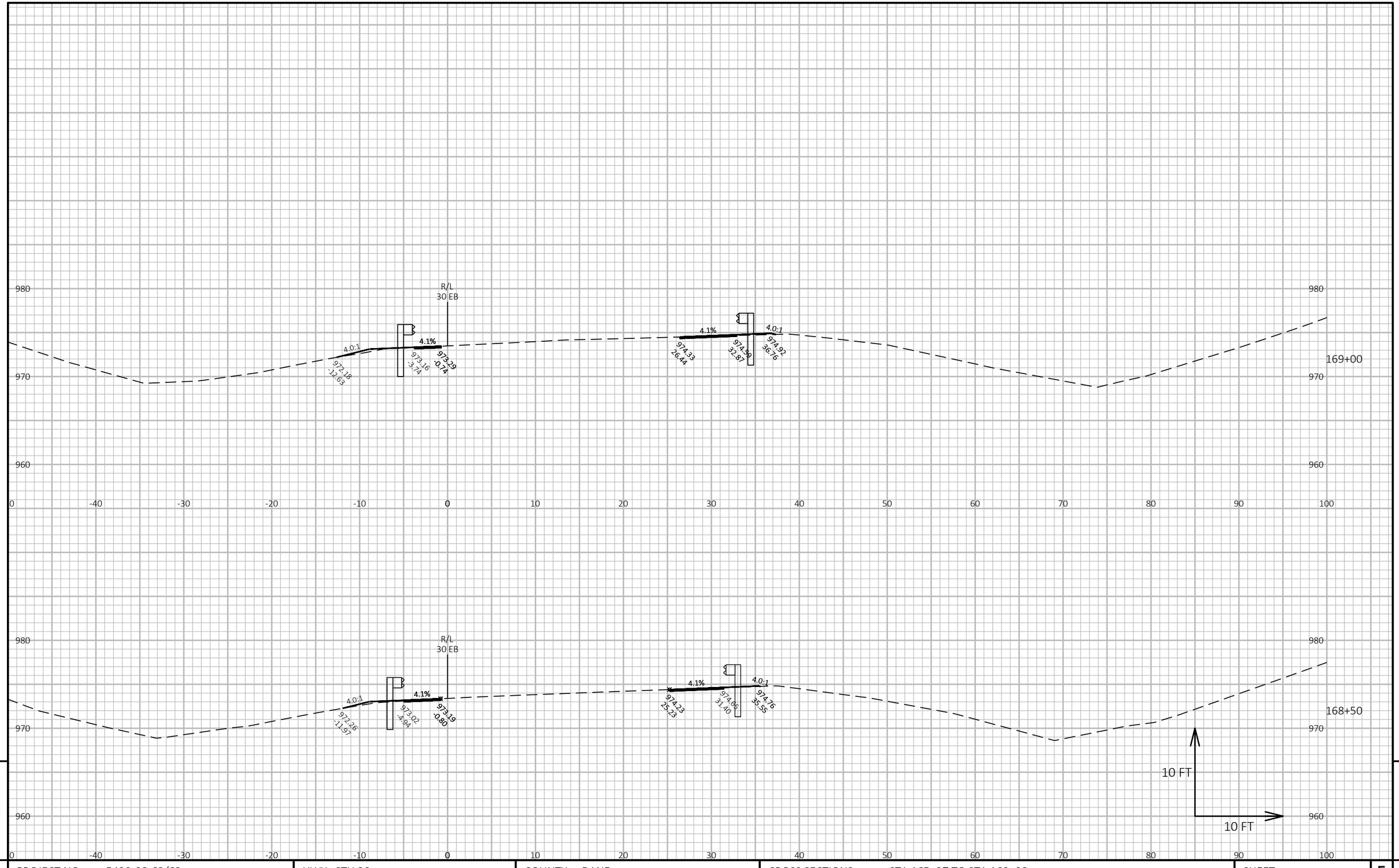
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 307	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs14

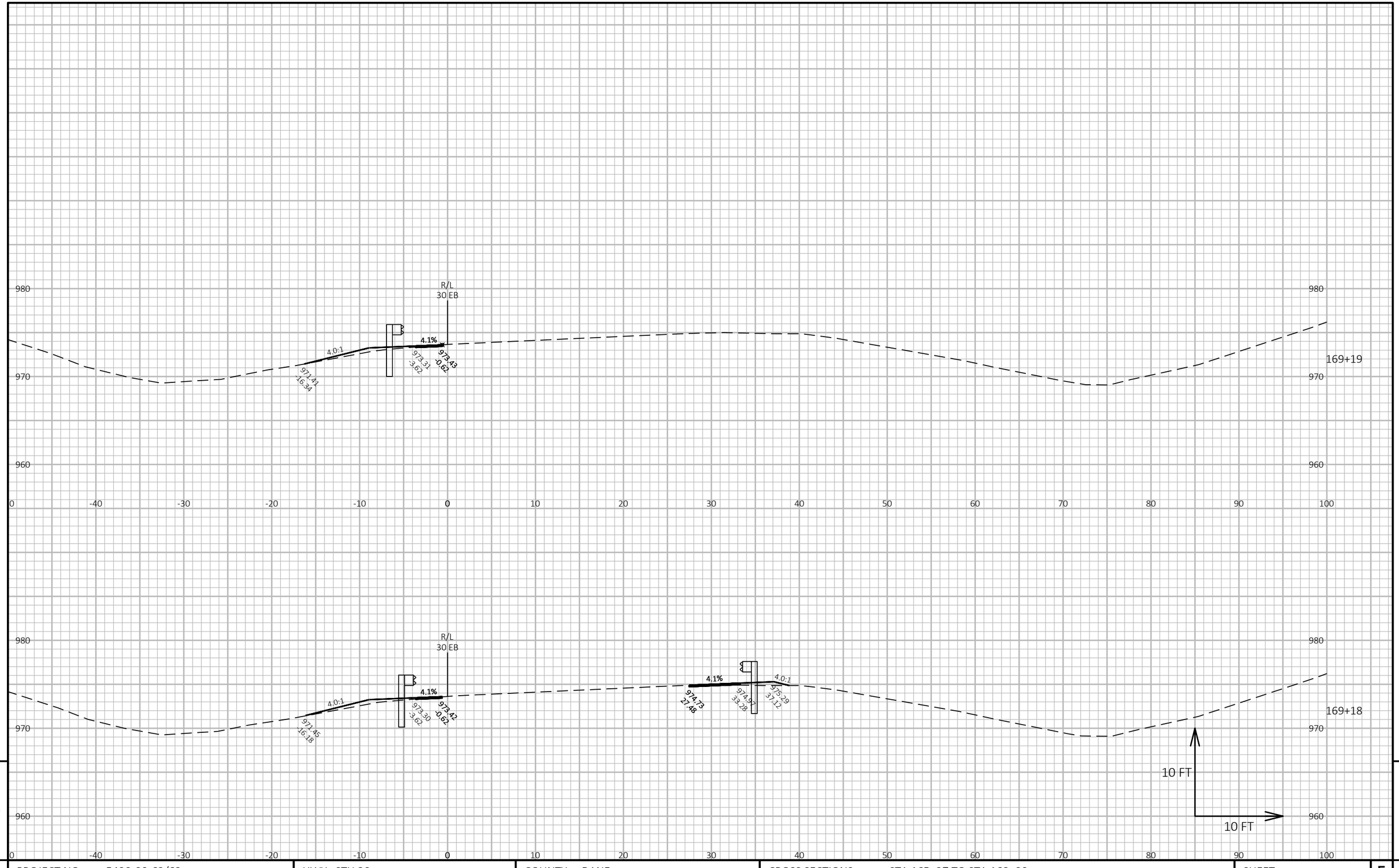
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 165+27 TO STA 168+90	SHEET 308	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs15

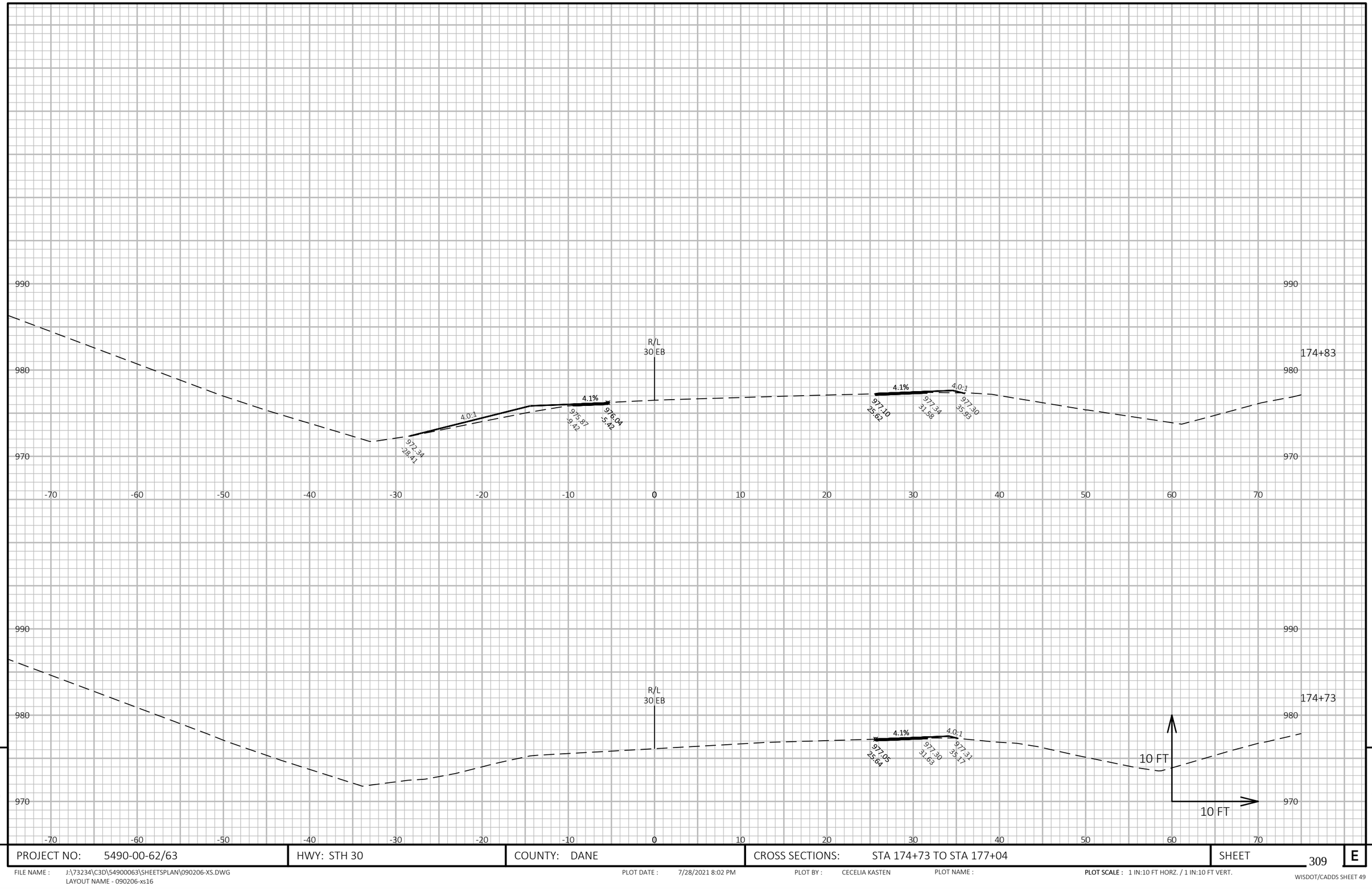
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

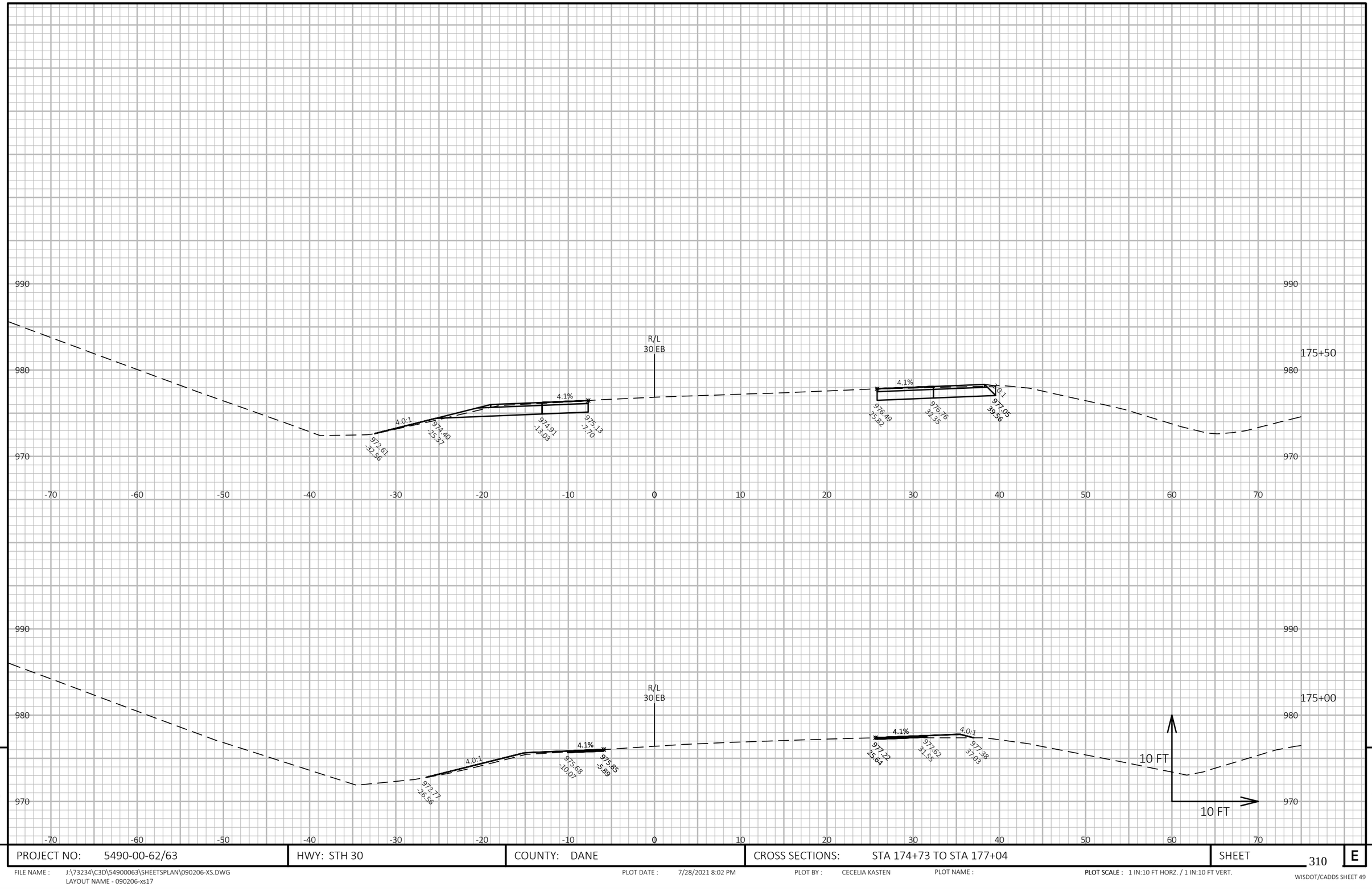
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 309	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs16

PLOT DATE : 7/28/2021 8:02 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 310	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs17

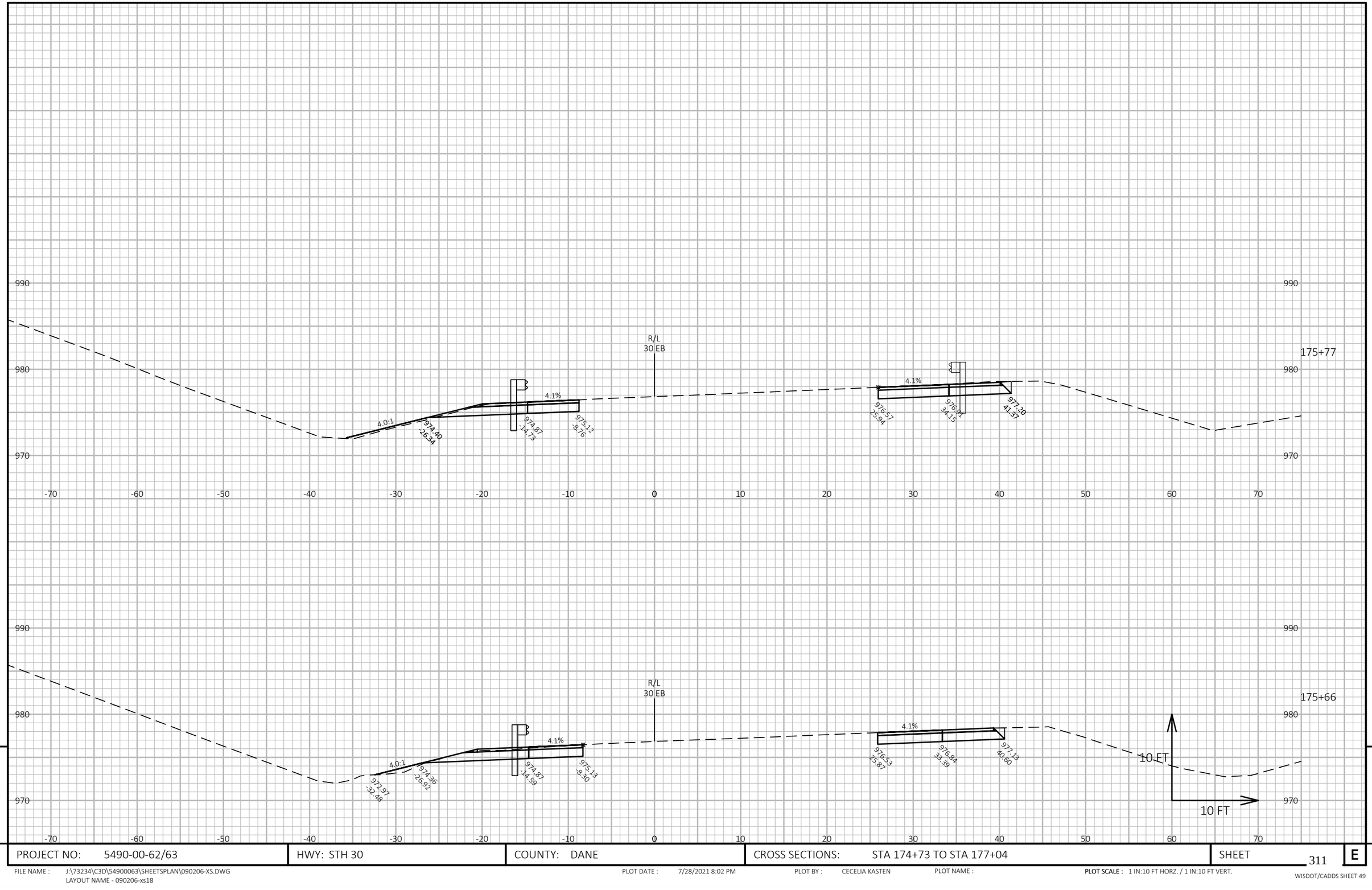
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 311	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs18

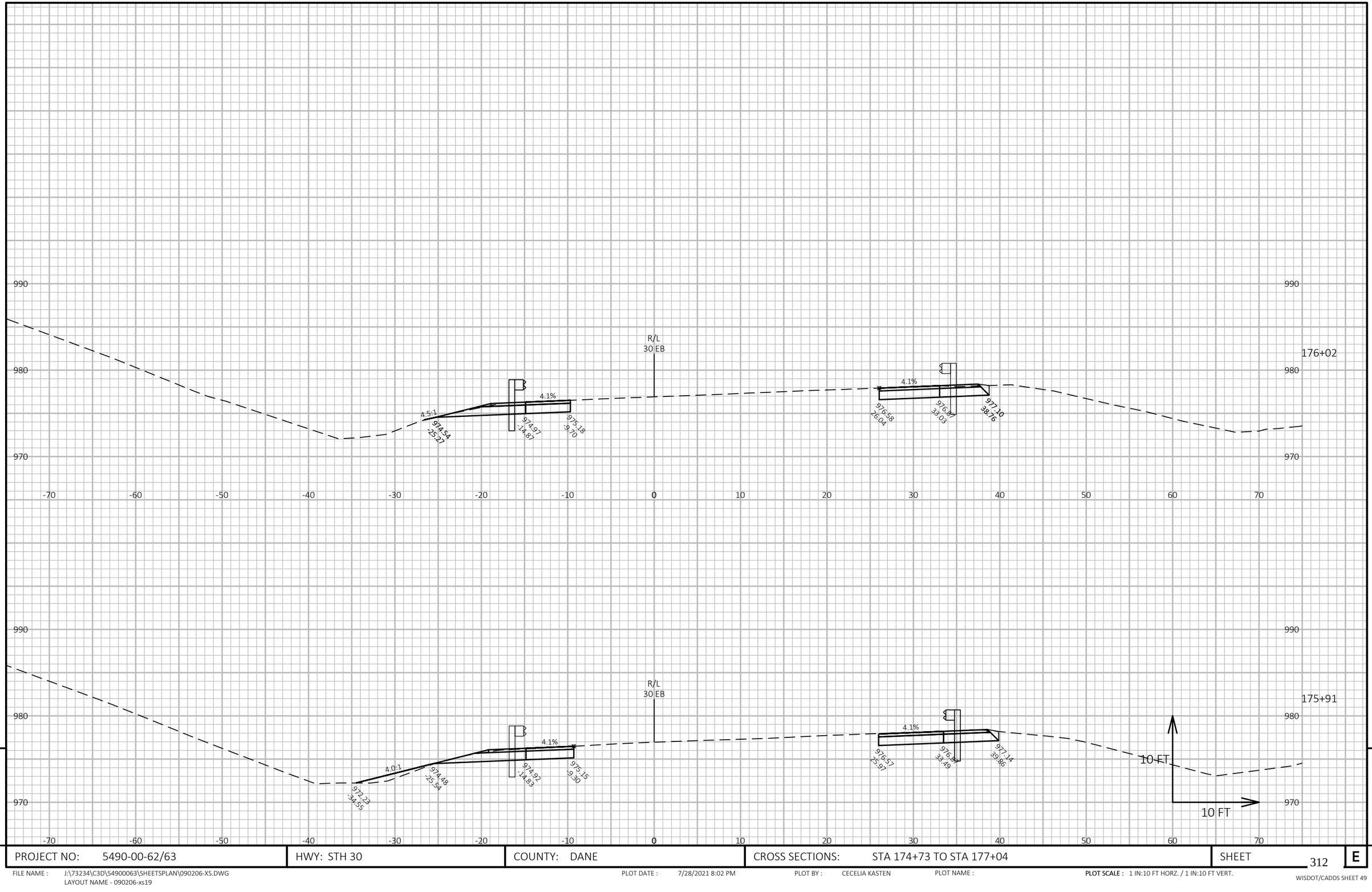
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 312	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs19

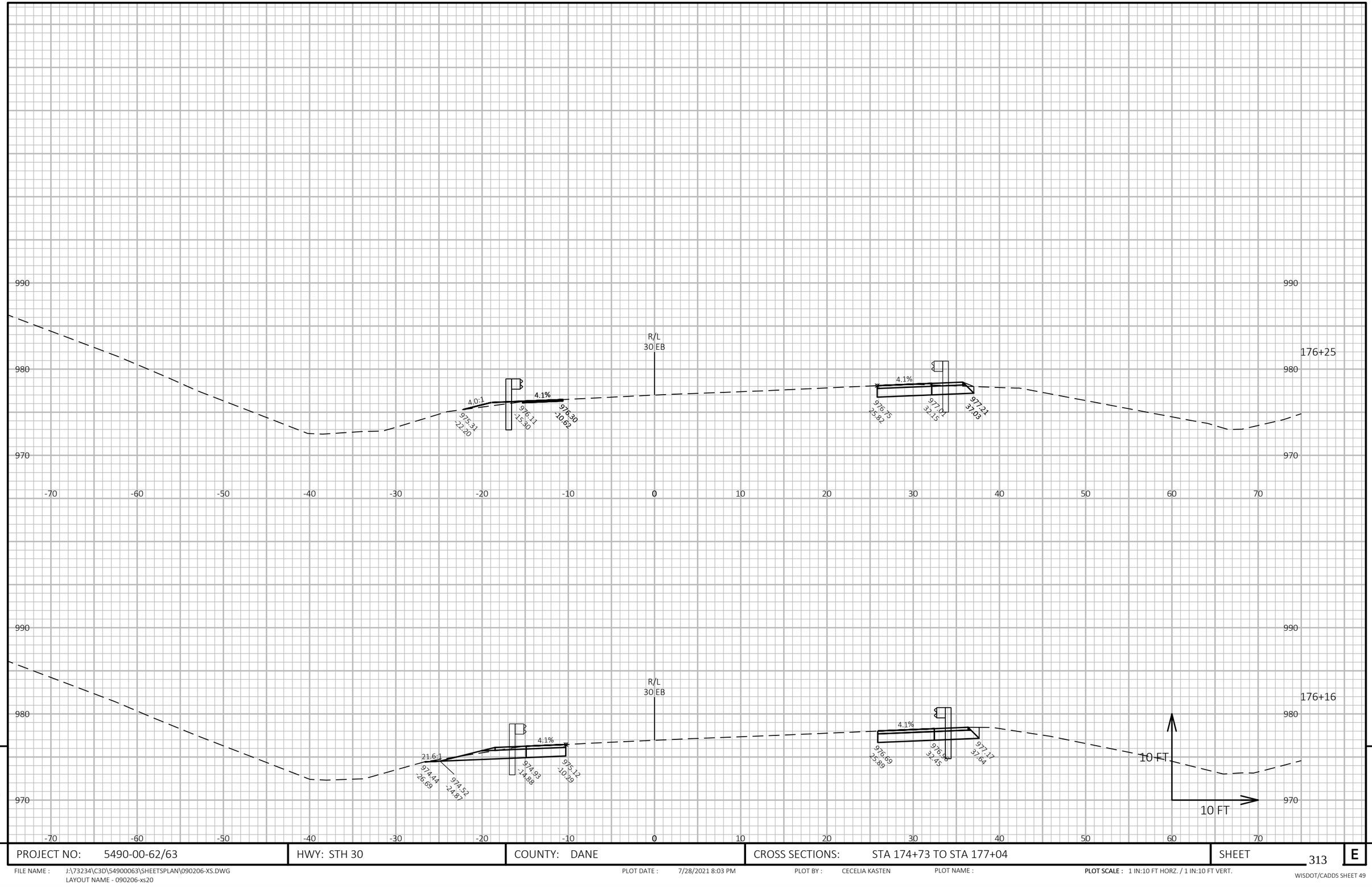
PLOT DATE : 7/28/2021 8:02 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 313	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs20

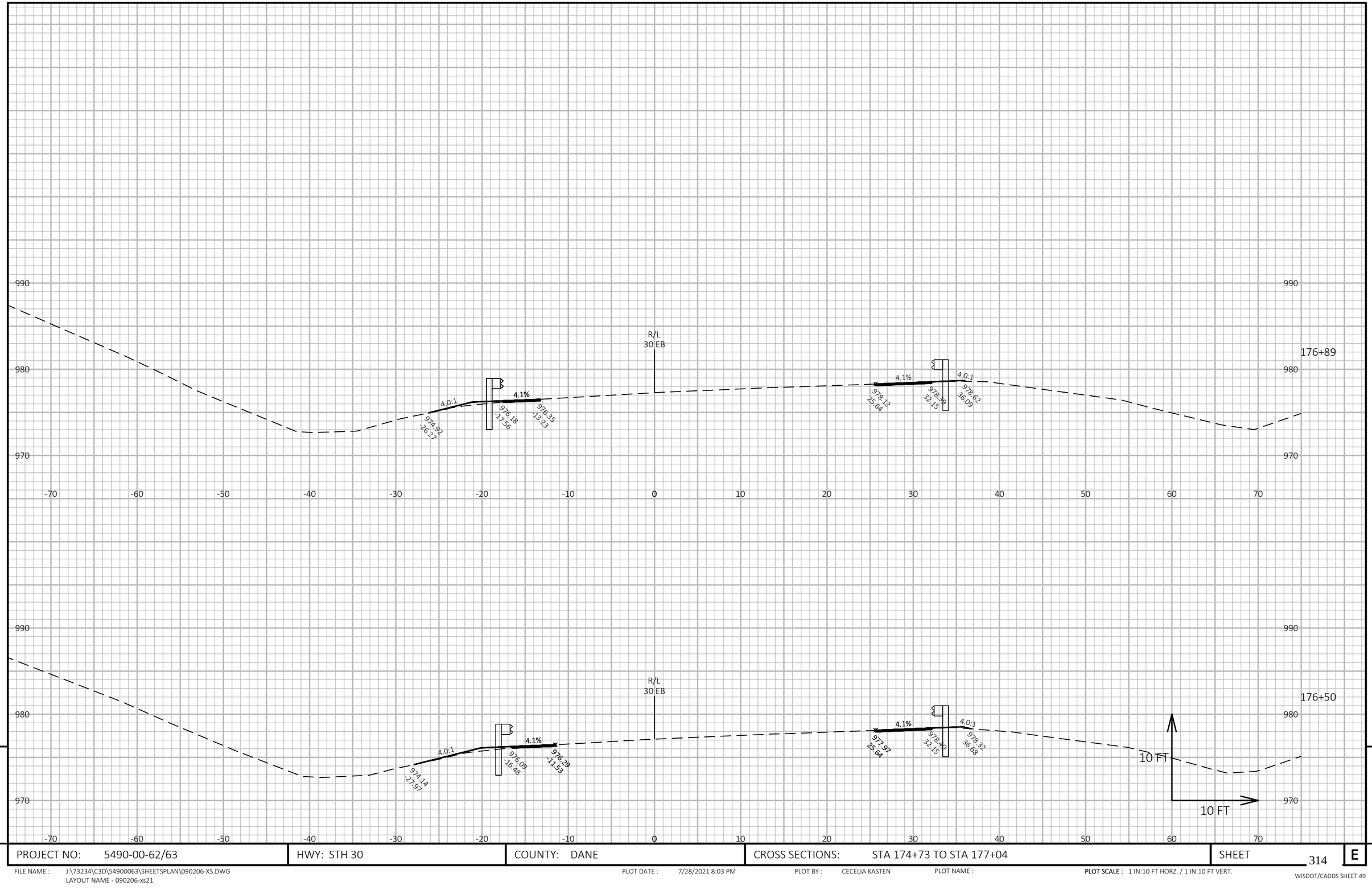
PLOT DATE : 7/28/2021 8:03 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 314	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs21

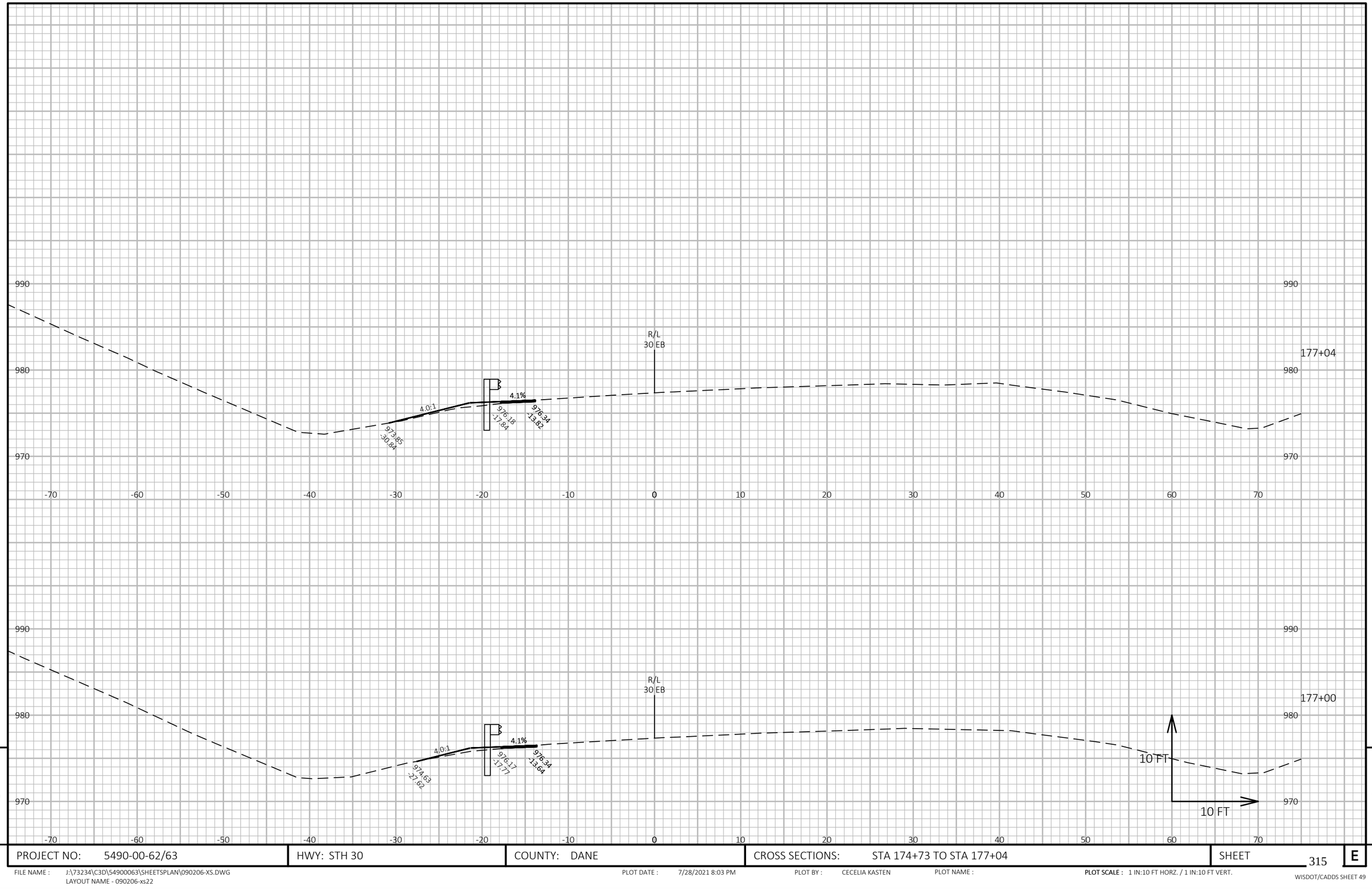
PLOT DATE : 7/28/2021 8:03 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 174+73 TO STA 177+04	SHEET 315	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090206-XS.DWG
LAYOUT NAME - 090206-xs22

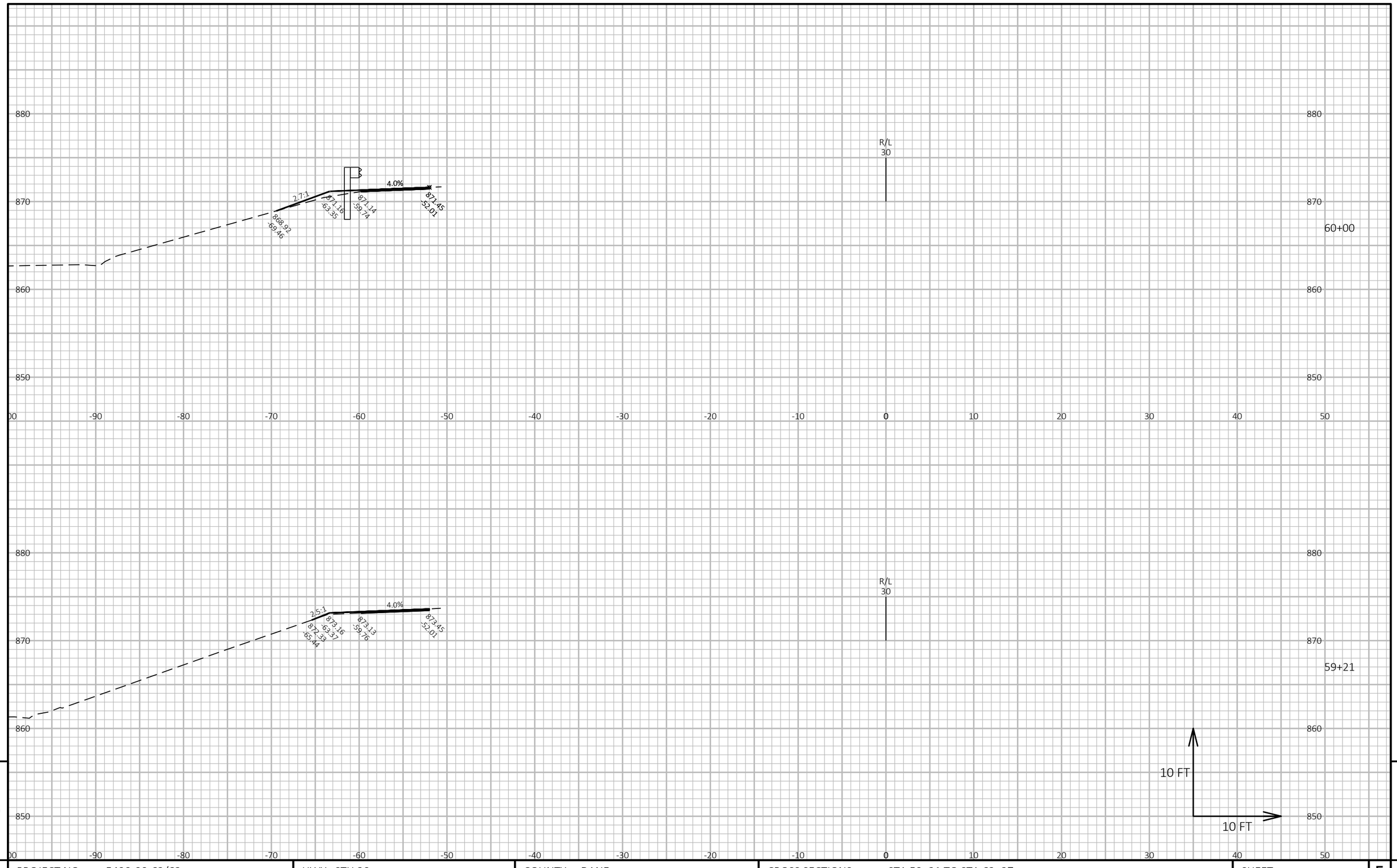
PLOT DATE : 7/28/2021 8:03 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 316 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs01

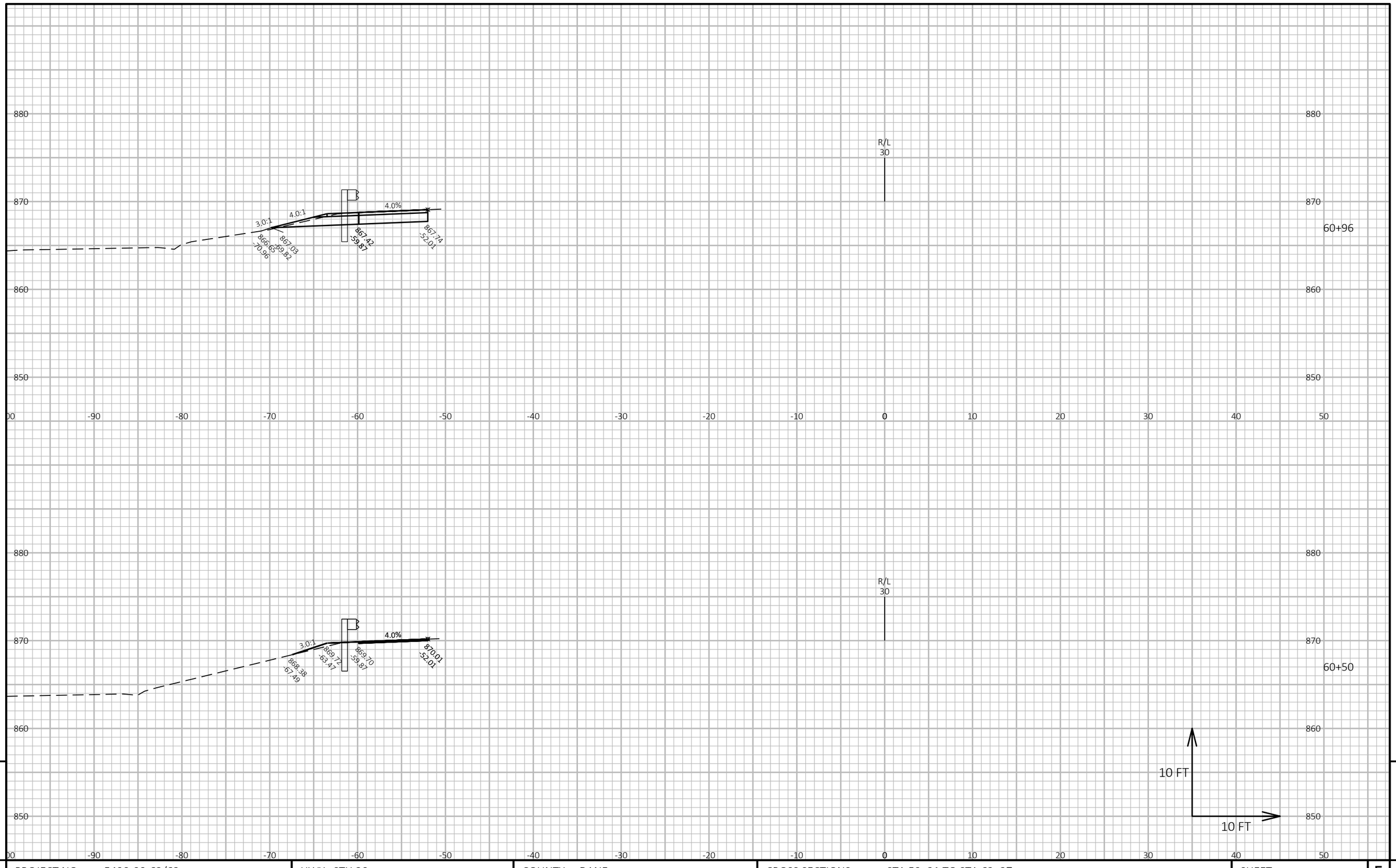
PLOT DATE : 7/28/2021 8:46 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

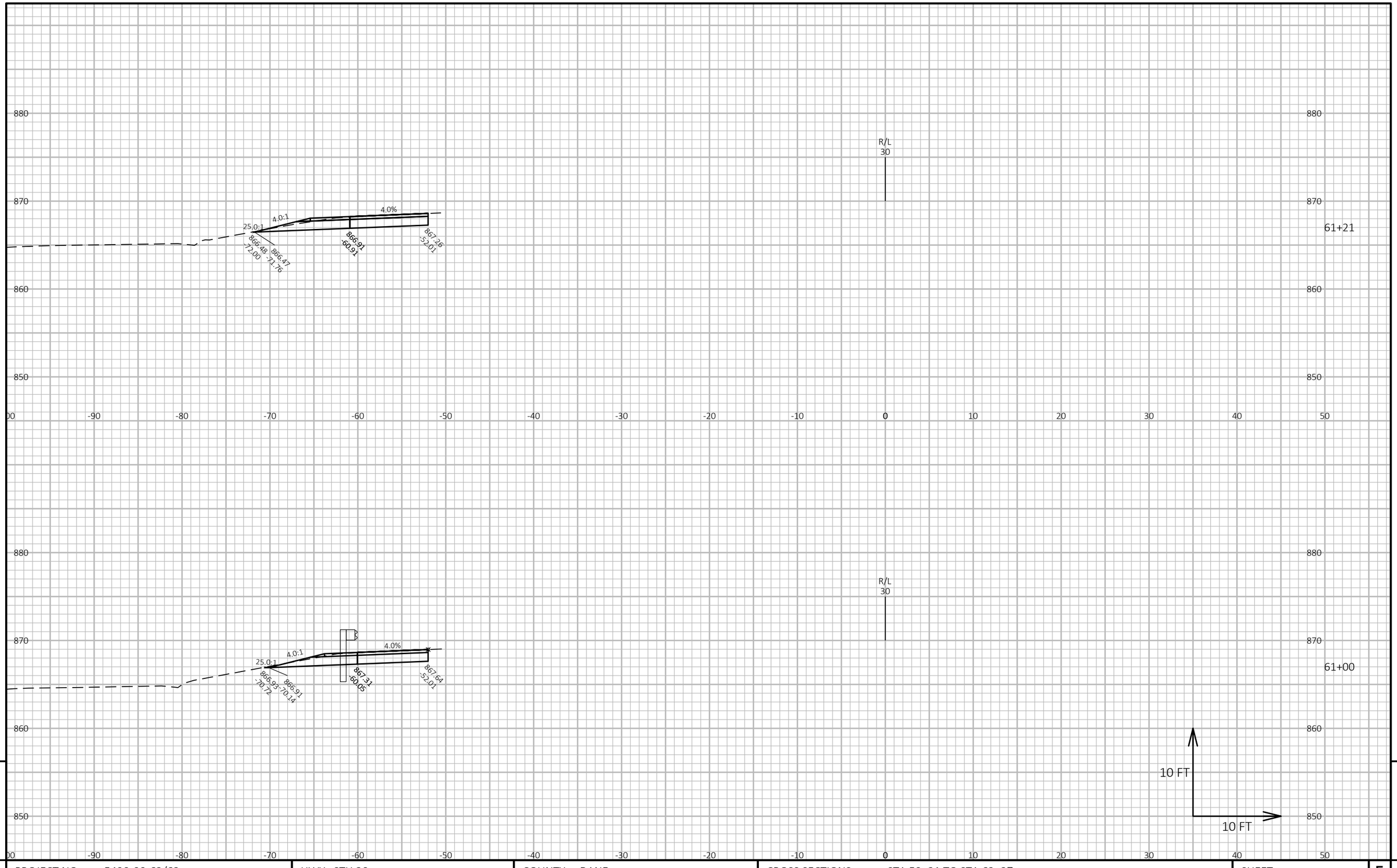


PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 317 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs02

PLOT DATE : 7/28/2021 8:46 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 318	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
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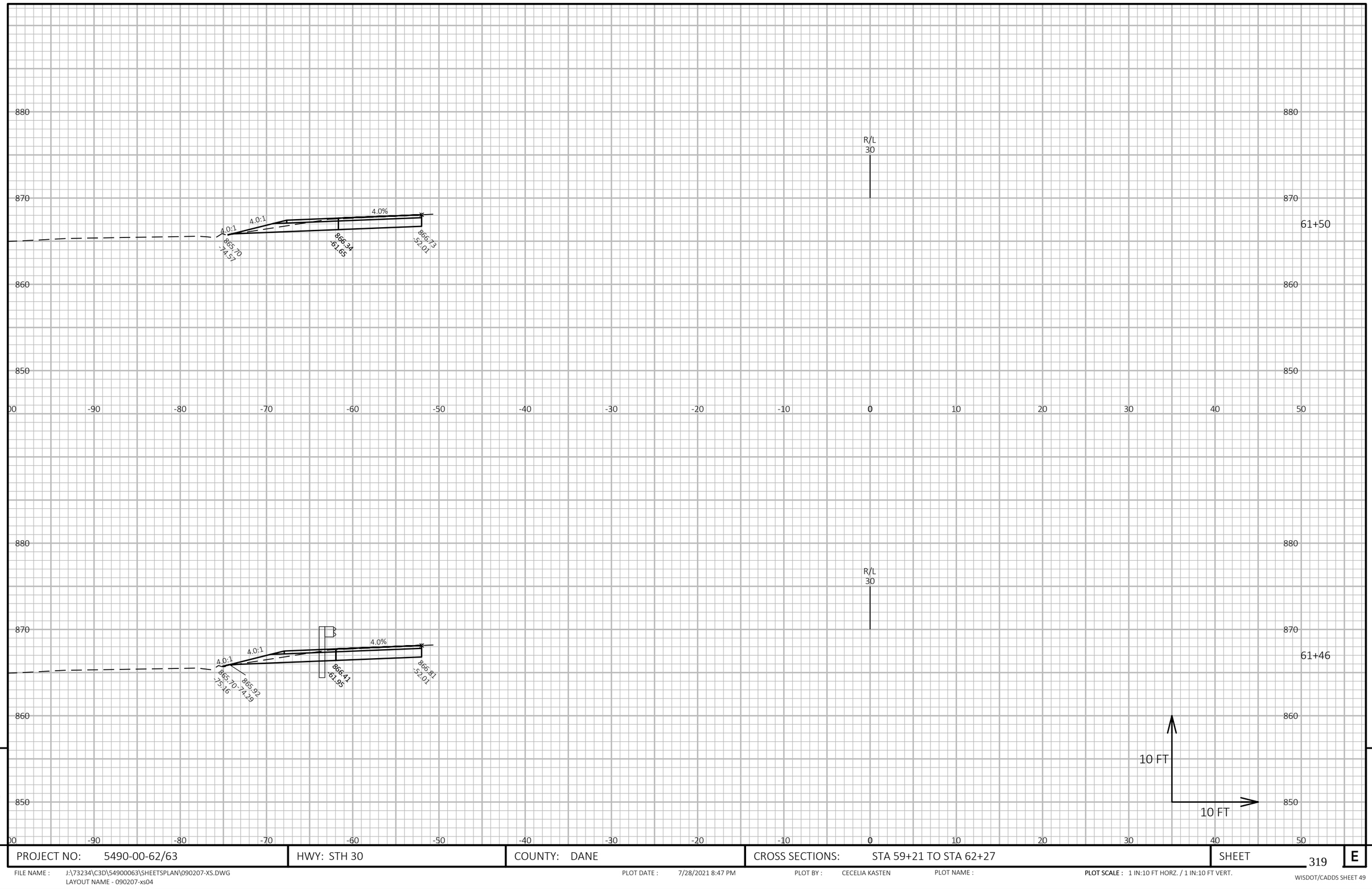
PLOT DATE : 7/28/2021 8:47 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 319	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
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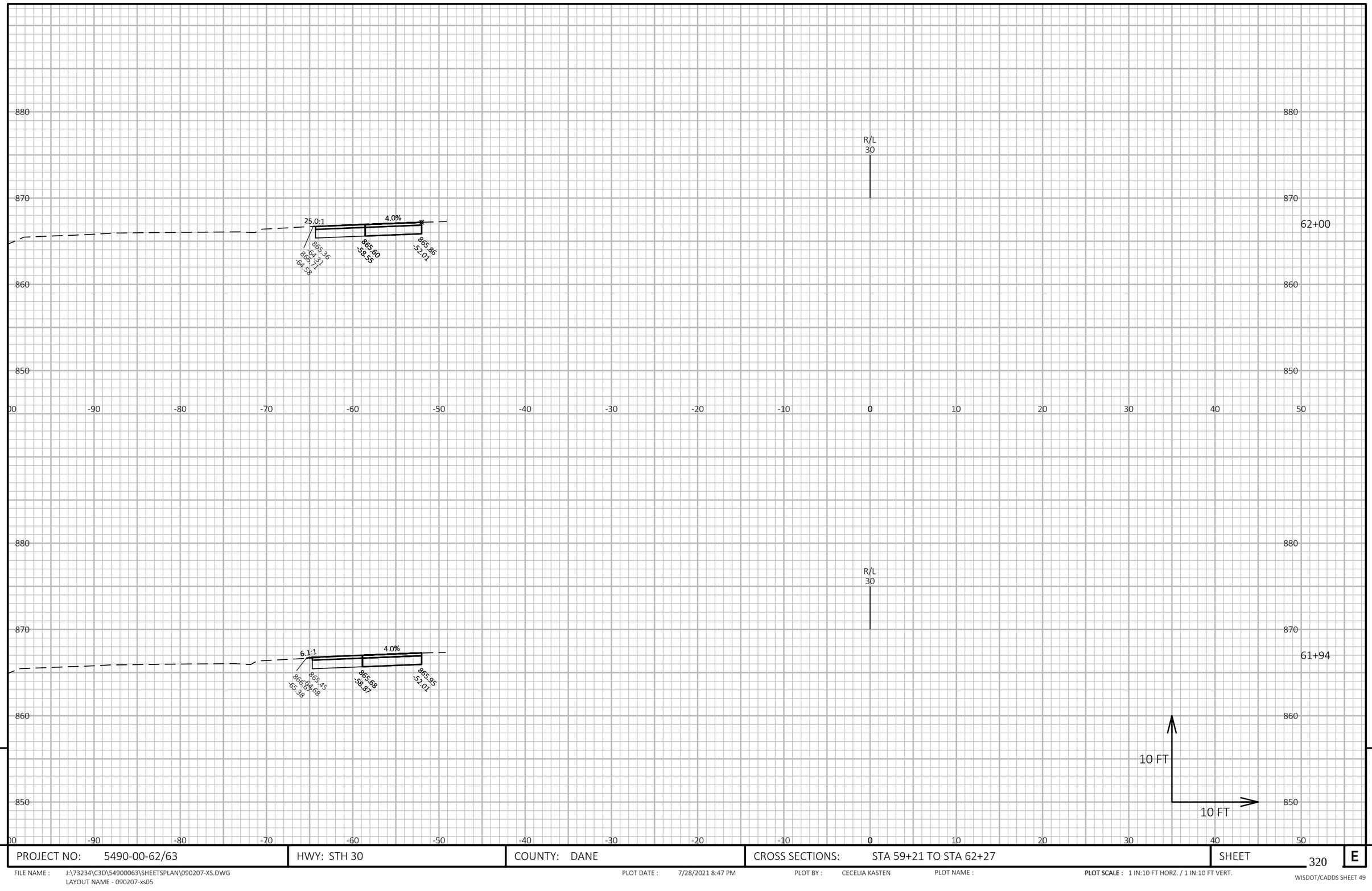
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PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 320	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
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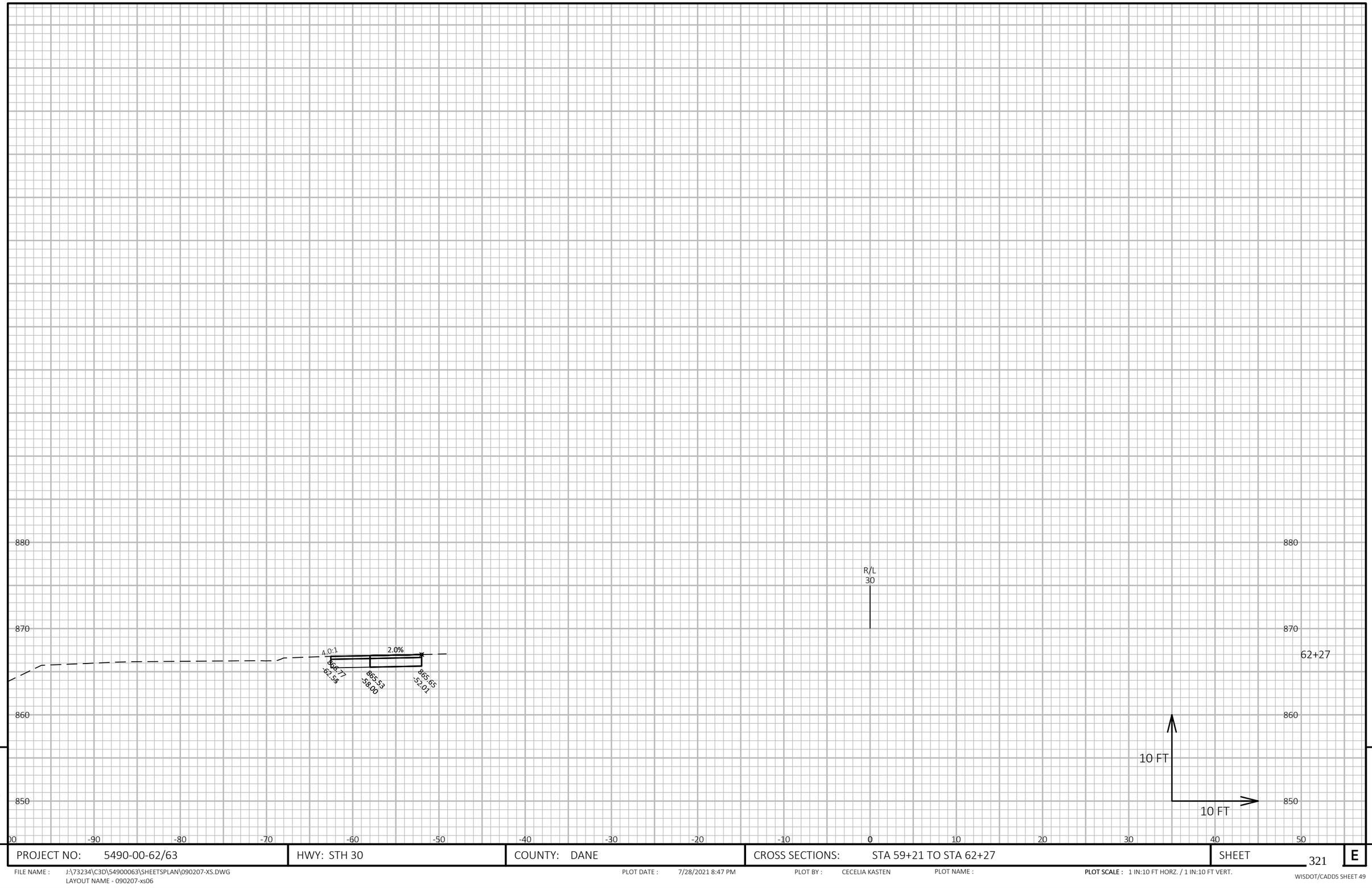
PLOT DATE : 7/28/2021 8:47 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 59+21 TO STA 62+27	SHEET 321	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs06

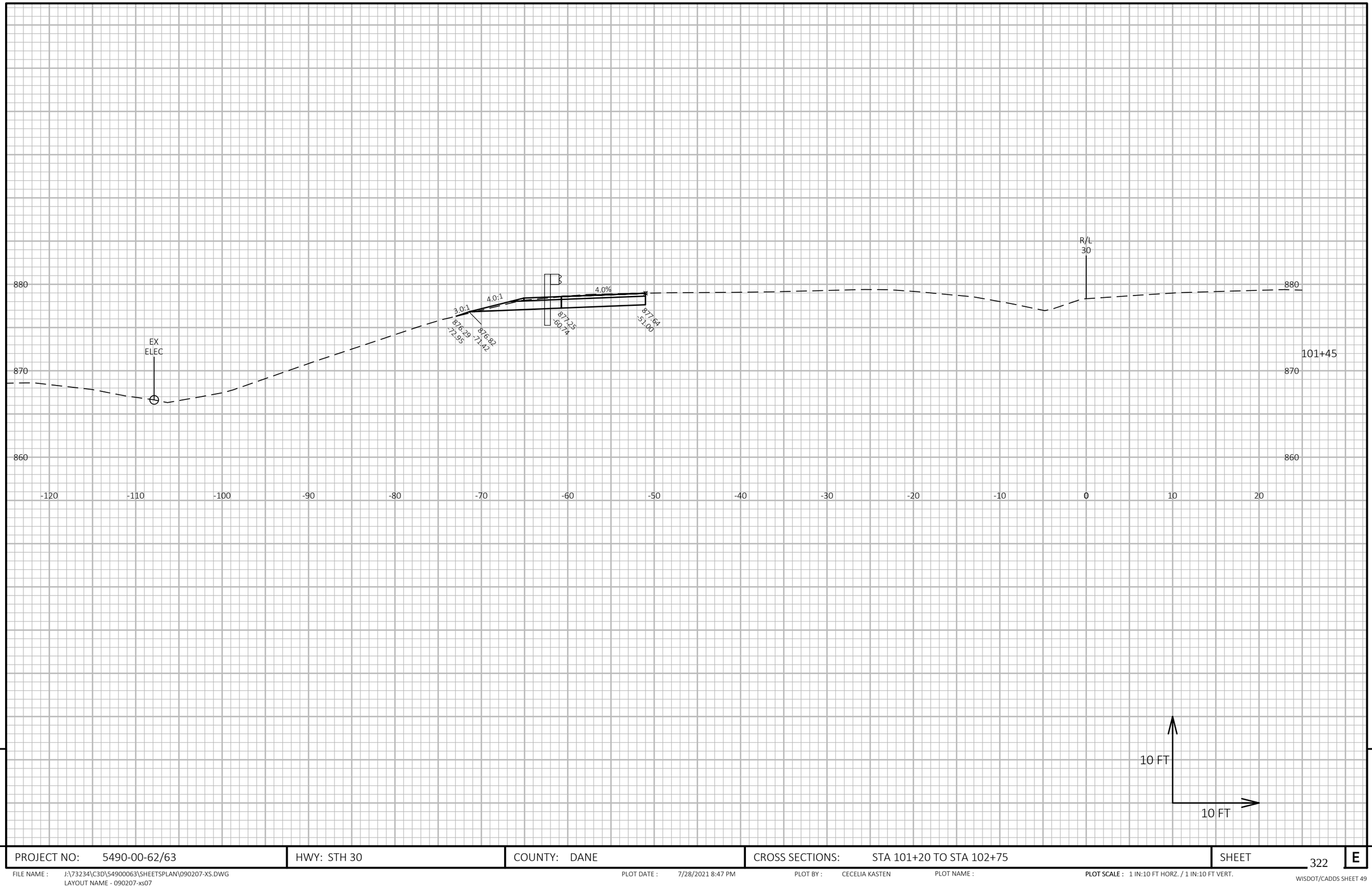
PLOT DATE : 7/28/2021 8:47 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 101+20 TO STA 102+75	SHEET 322	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
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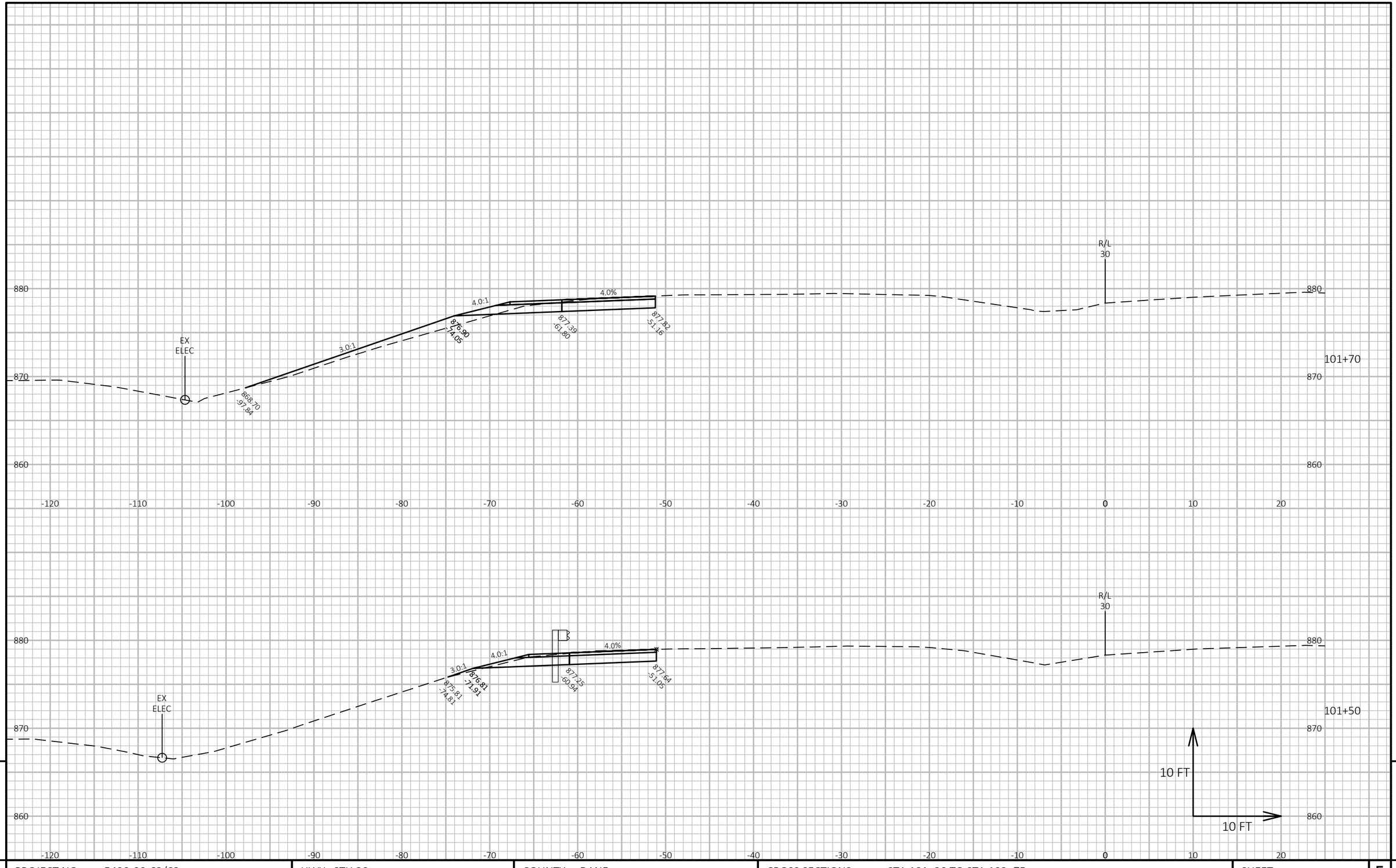
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PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 101+20 TO STA 102+75	SHEET 323	E

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LAYOUT NAME - 090207-xs08

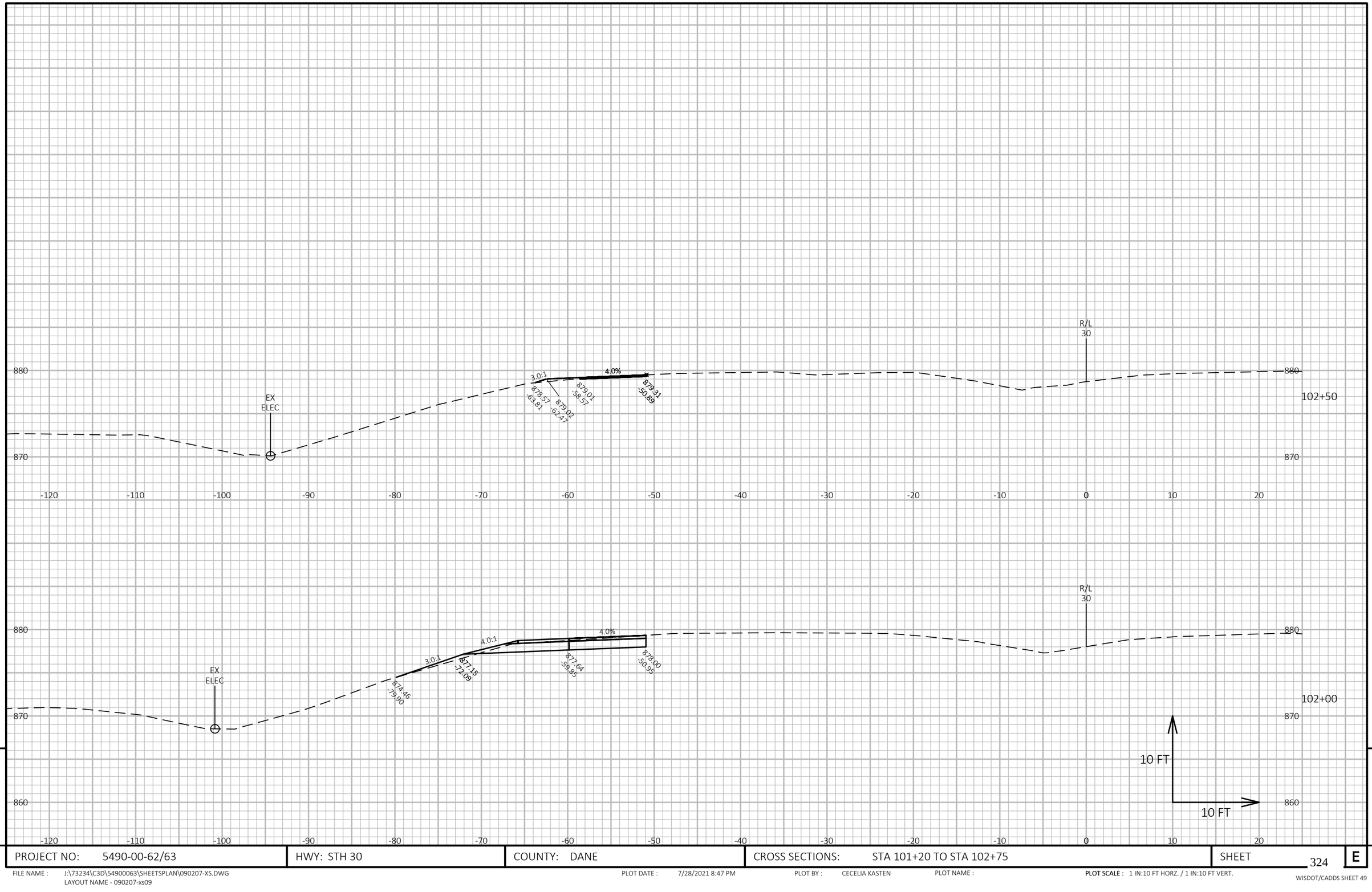
PLOT DATE : 7/28/2021 8:47 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



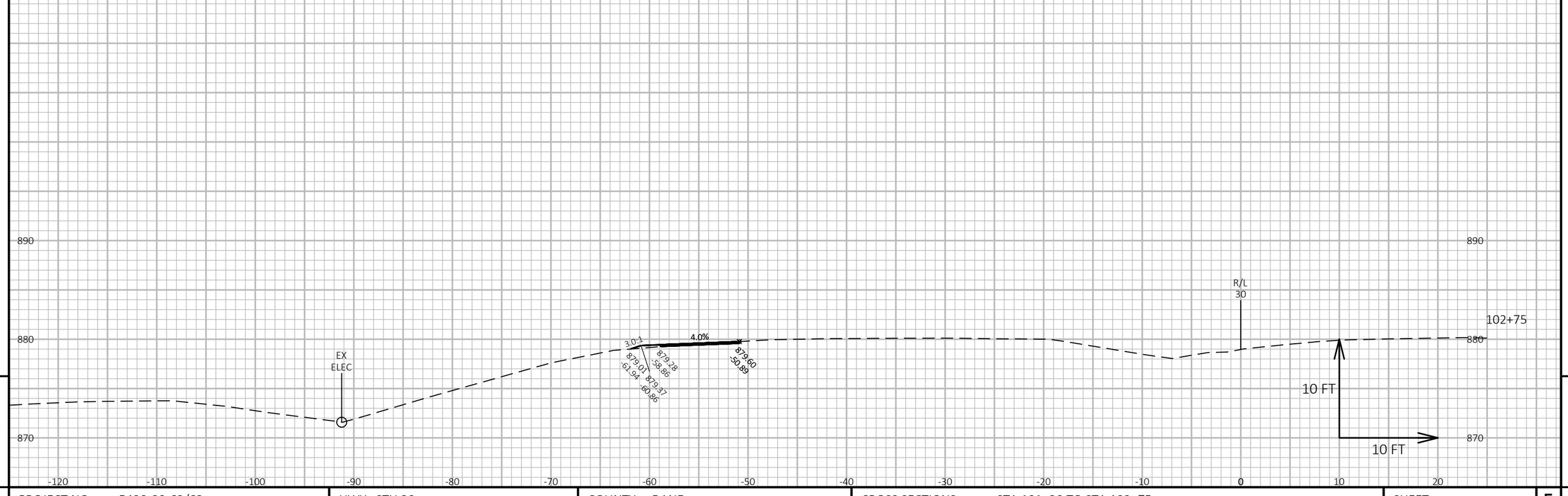
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 101+20 TO STA 102+75	SHEET 324	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs09

PLOT DATE : 7/28/2021 8:47 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 101+20 TO STA 102+75	SHEET 325	E

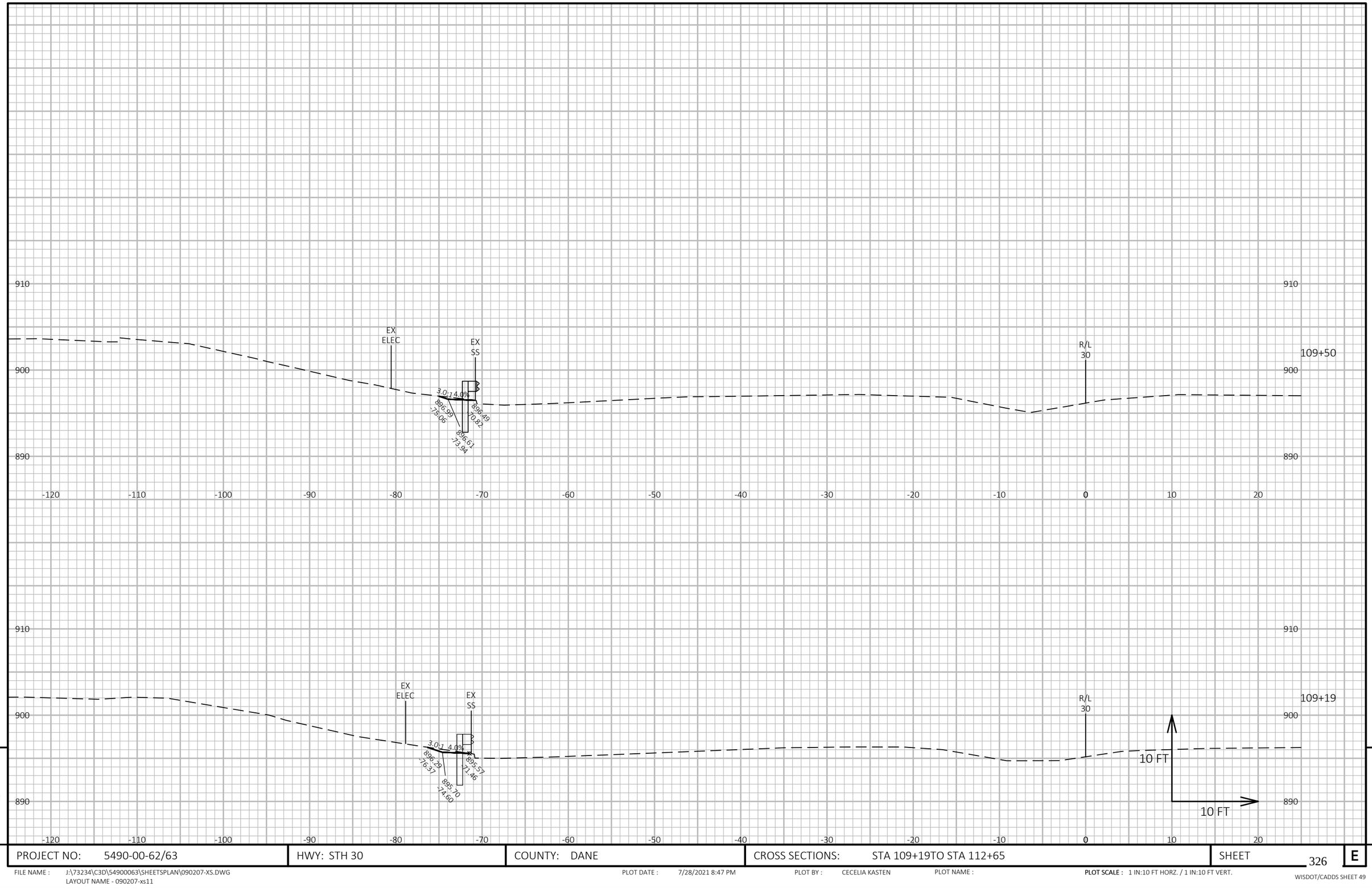
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LAYOUT NAME - 090207-xs10

PLOT DATE : 7/28/2021 8:47 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

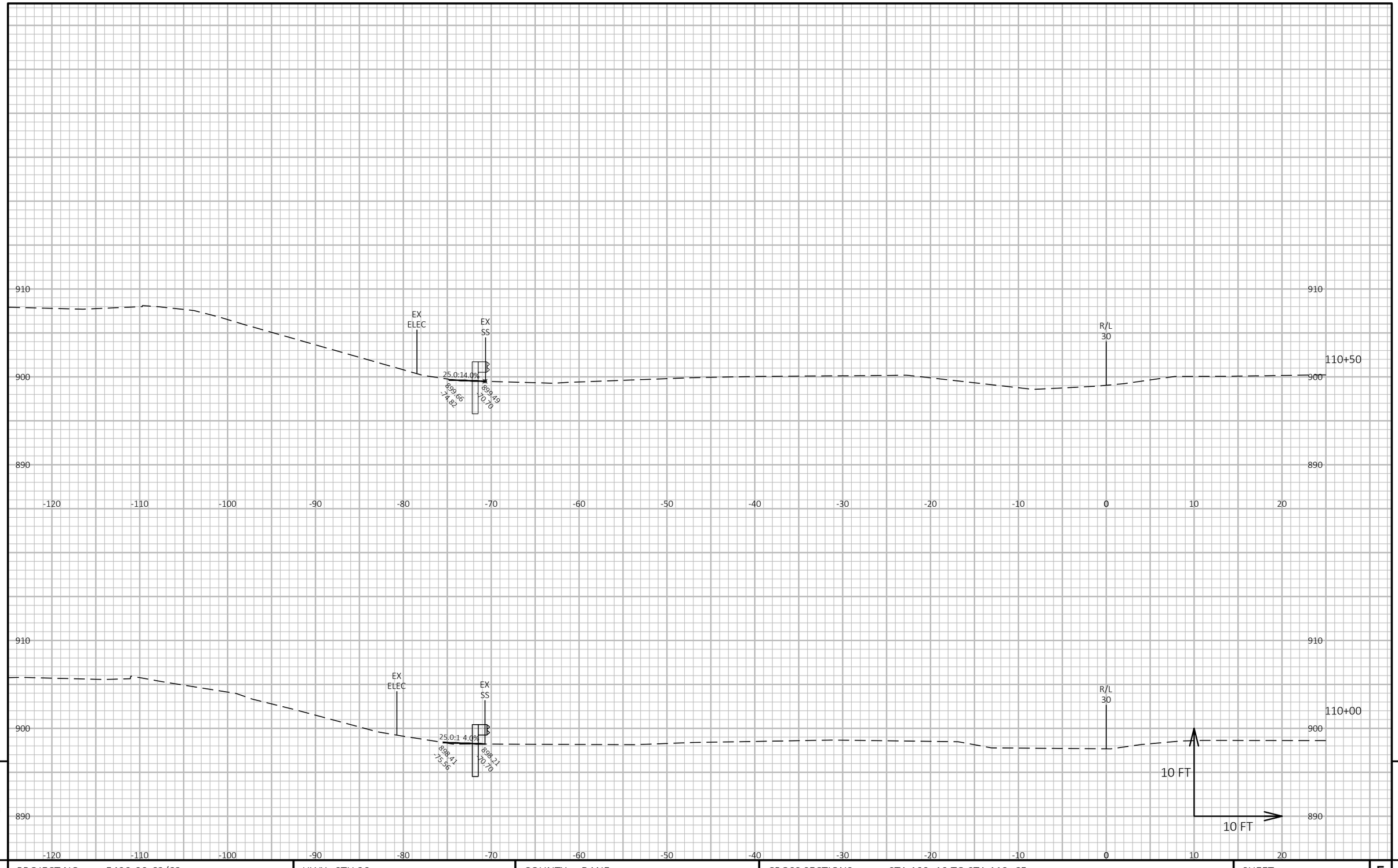
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+19TO STA 112+65	SHEET 326	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs11

PLOT DATE : 7/28/2021 8:47 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+19 TO STA 112+65	SHEET 327	E

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LAYOUT NAME - 090207-xs12

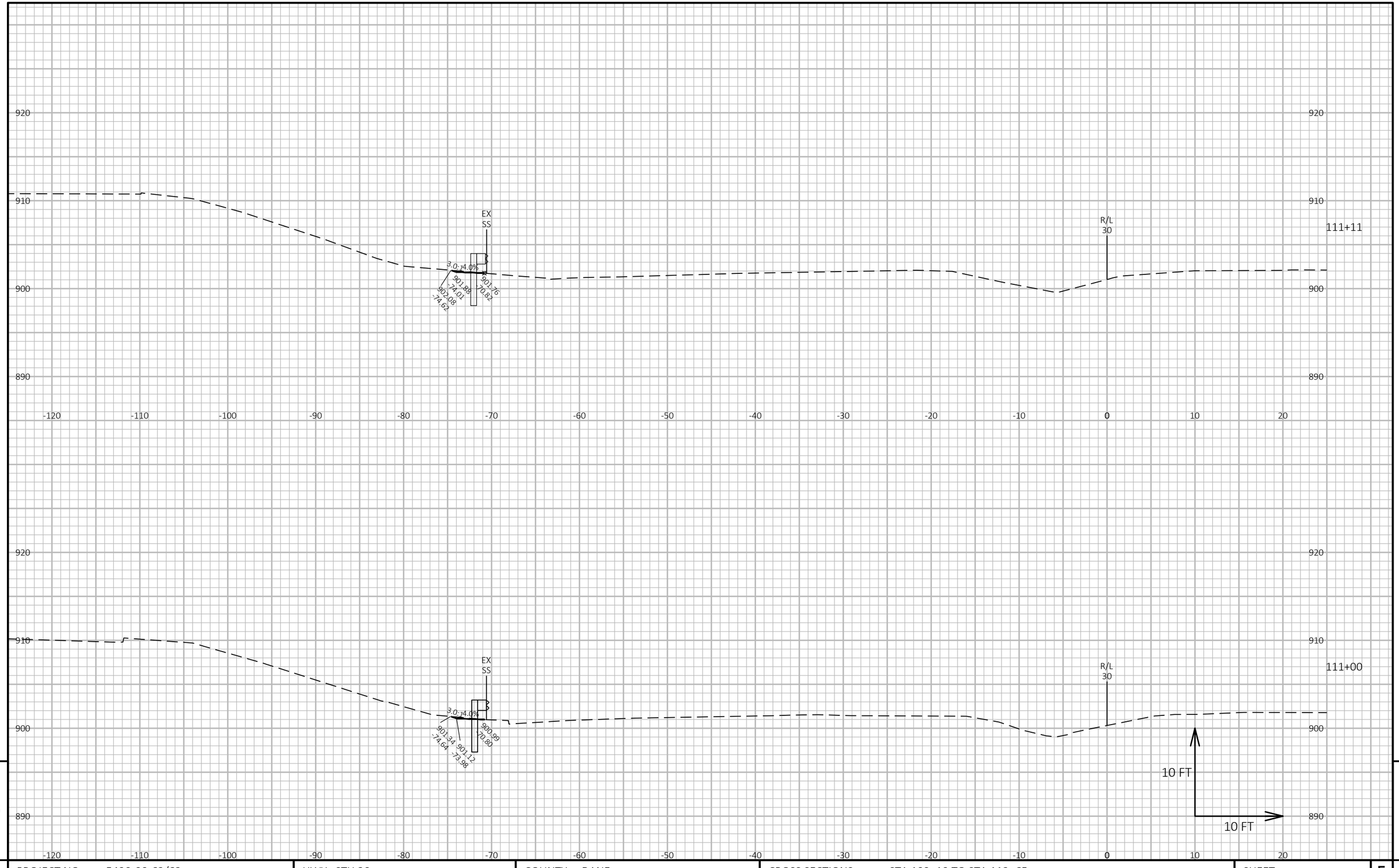
PLOT DATE : 7/28/2021 8:48 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+19 TO STA 112+65	SHEET 328	E

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LAYOUT NAME - 090207-xs13

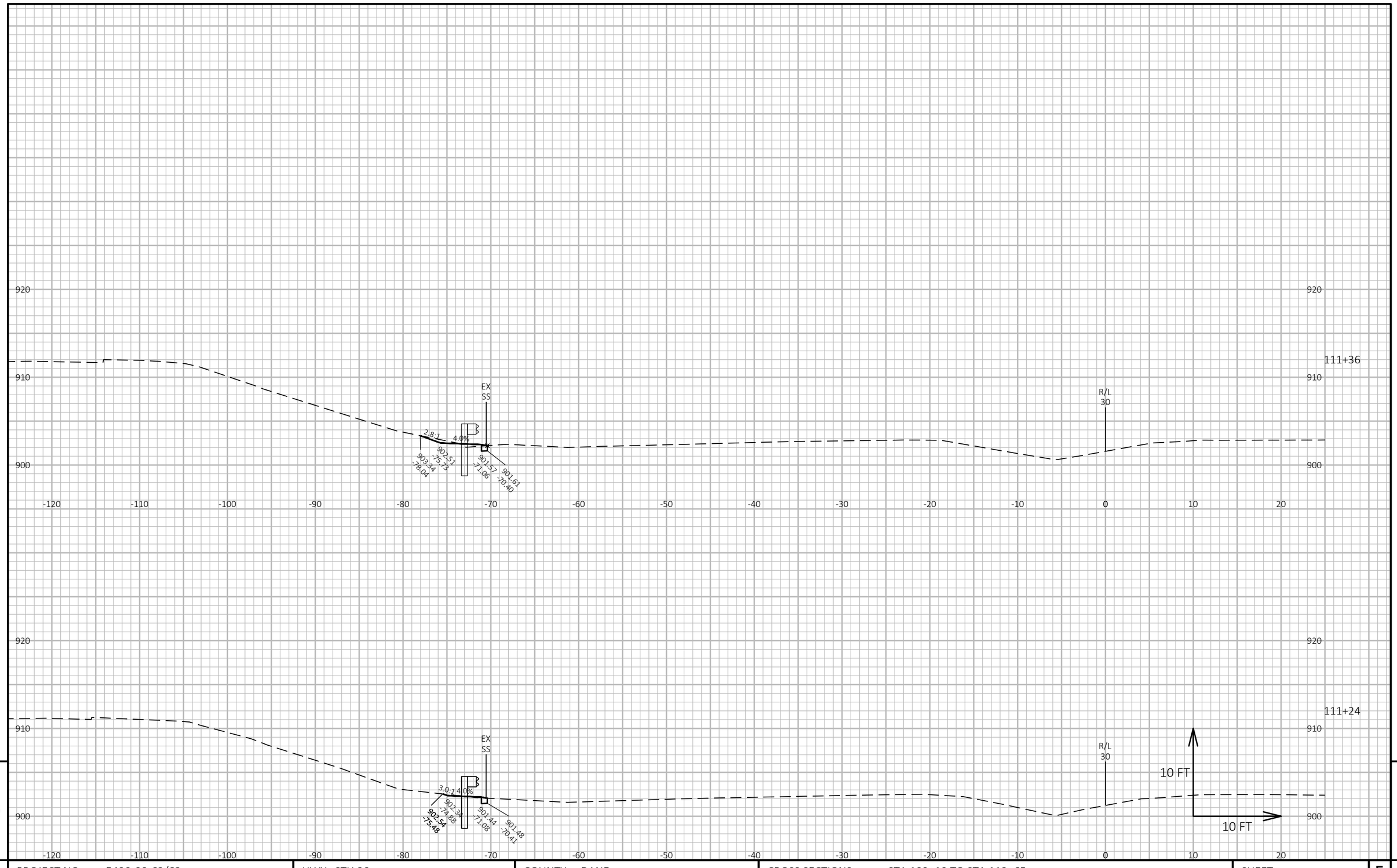
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PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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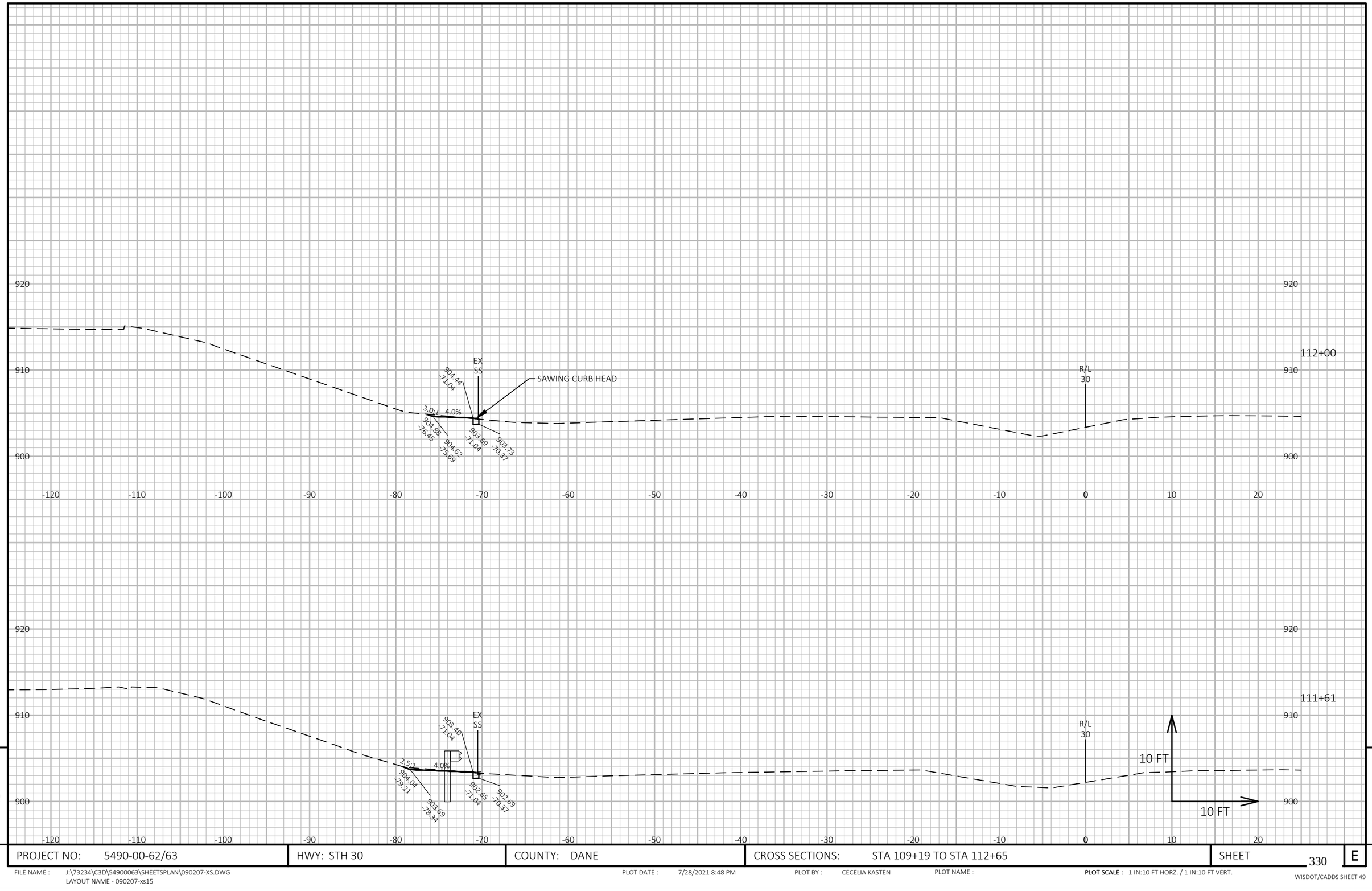
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FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs14

PLOT DATE : 7/28/2021 8:48 PM PLOT BY : CECELIA KASTEN PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



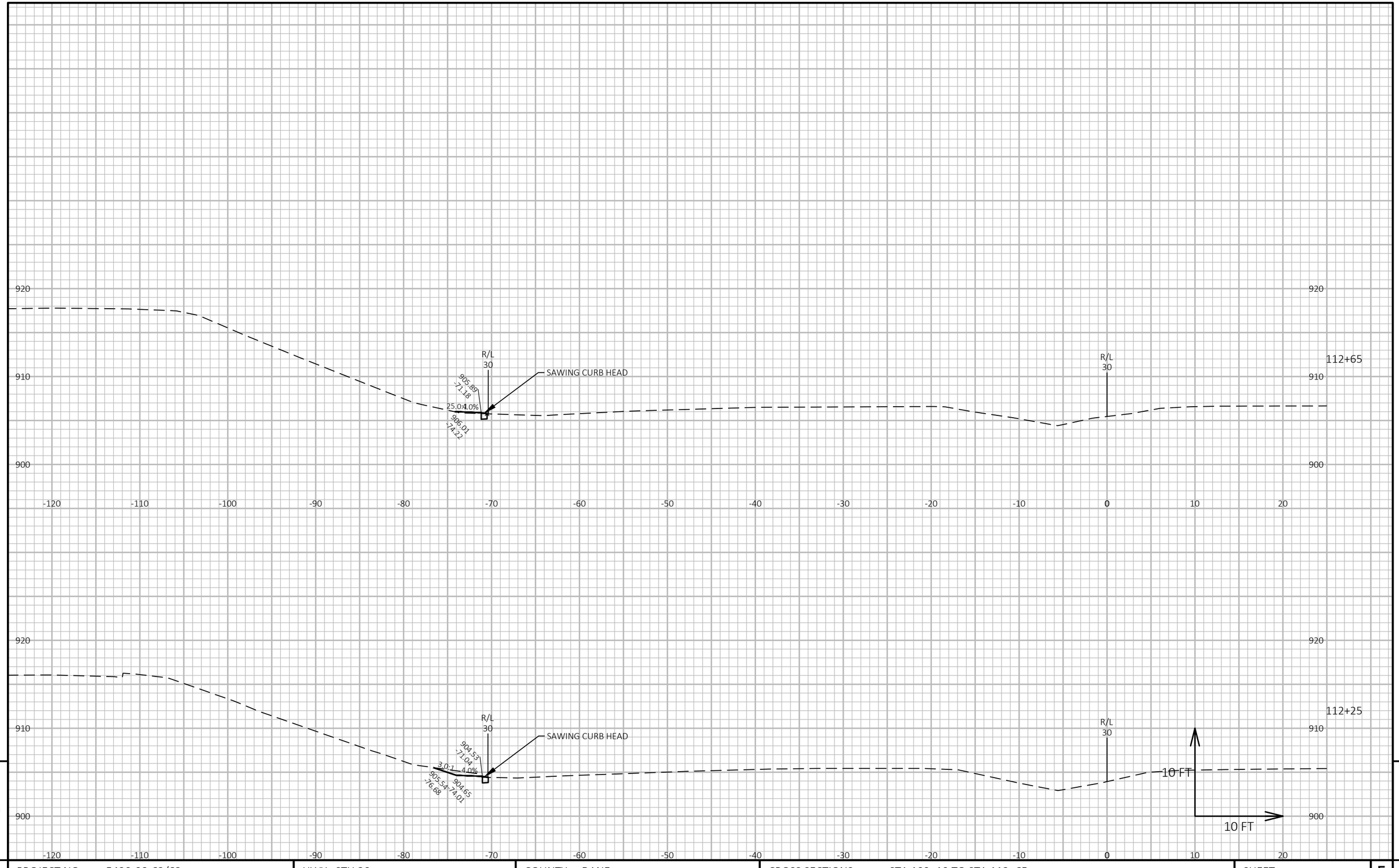
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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+19 TO STA 112+65	SHEET 330	E

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LAYOUT NAME - 090207-xs15

PLOT DATE : 7/28/2021 8:48 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 109+19 TO STA 112+65	SHEET 331	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs16

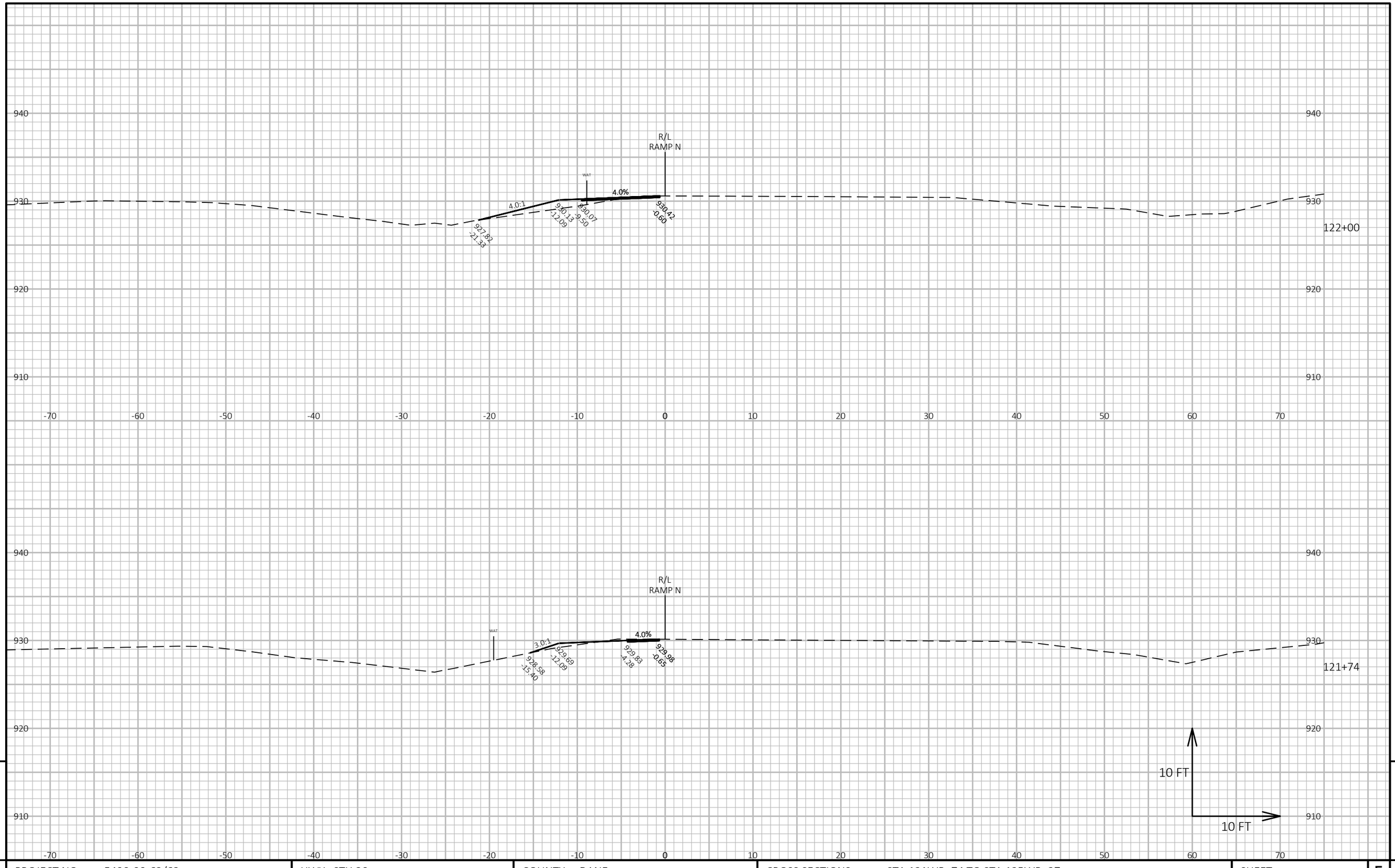
PLOT DATE : 7/28/2021 8:48 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 332	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs17

PLOT DATE : 7/28/2021 8:48 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

940
930
920
910
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

R/L
RAMP N
WAT
4.0%
24.5:1
932.05
931.99
-9.50
933.35
-0.49
-15.00

123+00

940
930
920
910
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

R/L
RAMP N
WAT
4.0%
5.0:1
929.23
-21.58
931.23
-12.10
931.16
-9.50
931.52
-0.57

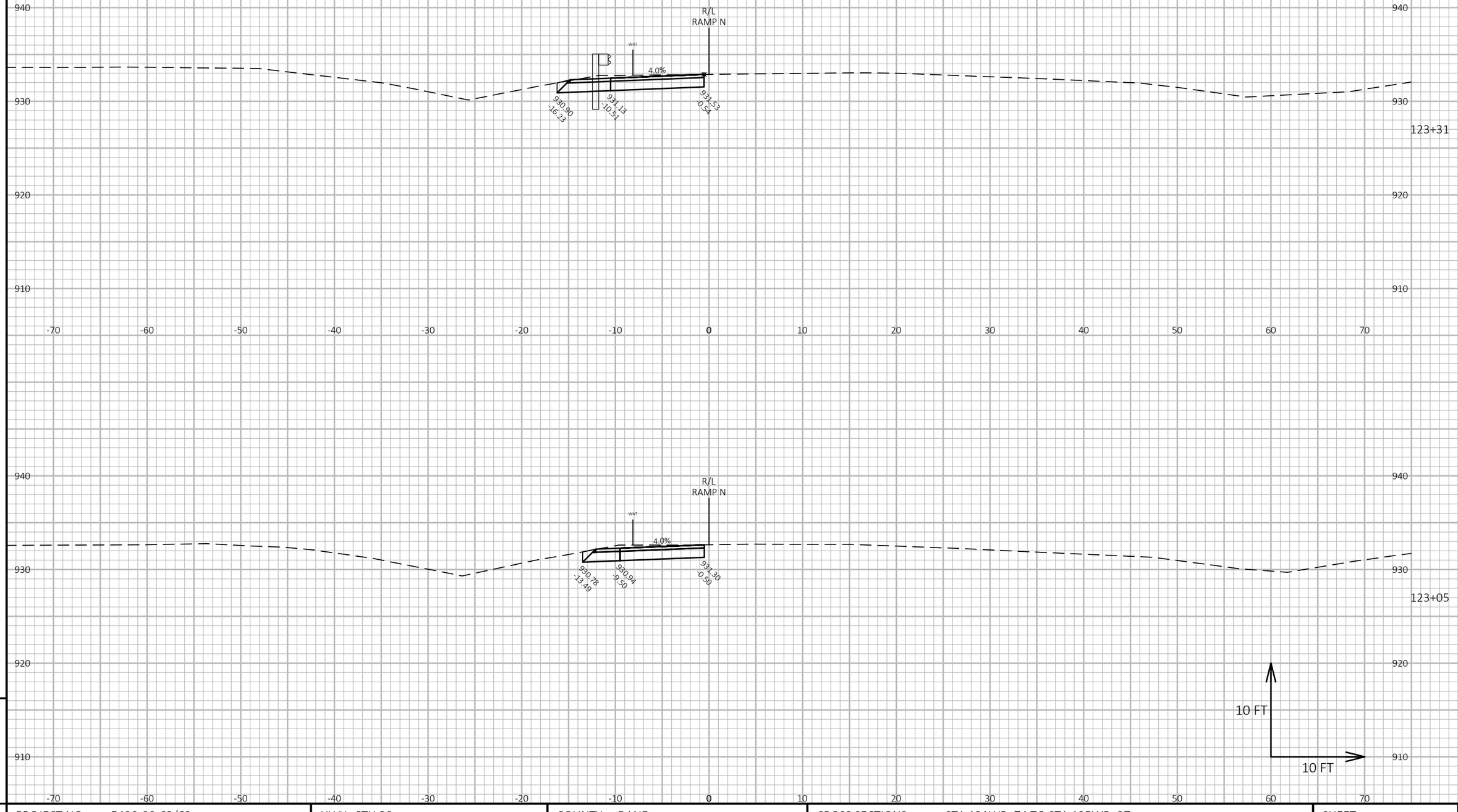
122+50

10 FT
10 FT

9 9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 333	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs2
PLOT DATE : 7/28/2021 8:48 PM
PLOT BY : CECELIA KASTEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 334	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs3

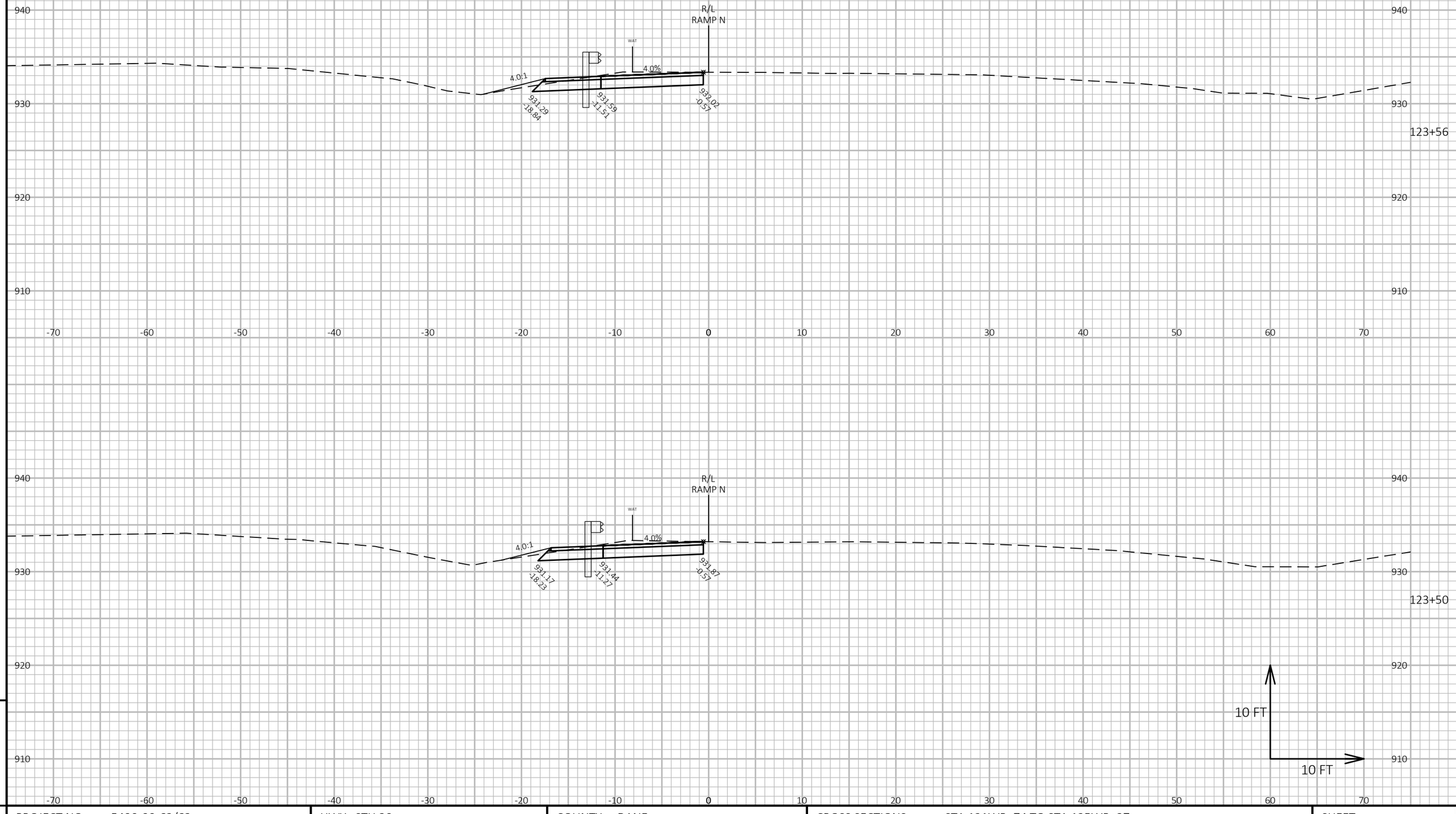
PLOT DATE : 7/28/2021 8:48 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 335	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs4

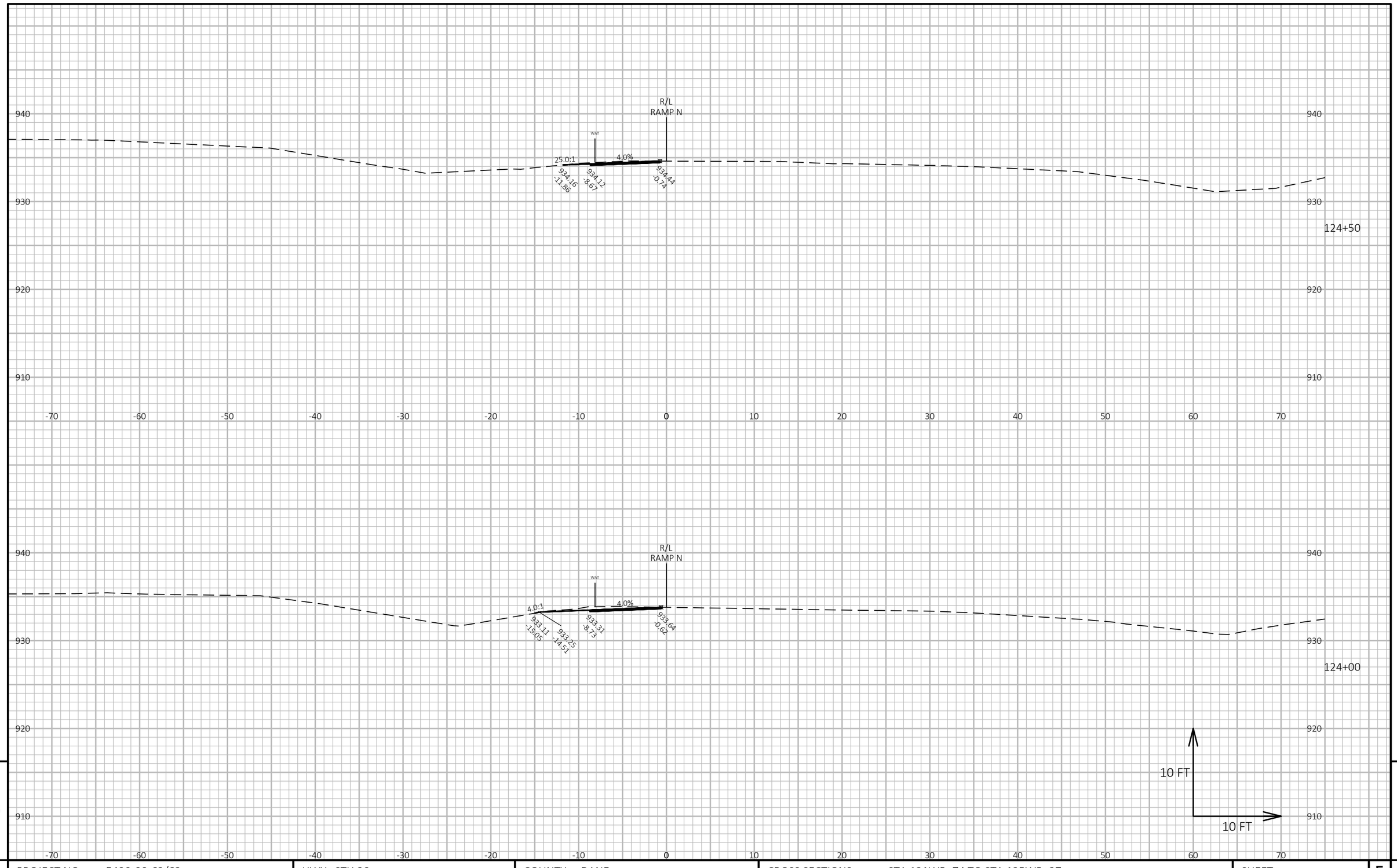
PLOT DATE : 7/28/2021 8:48 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 336	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs5

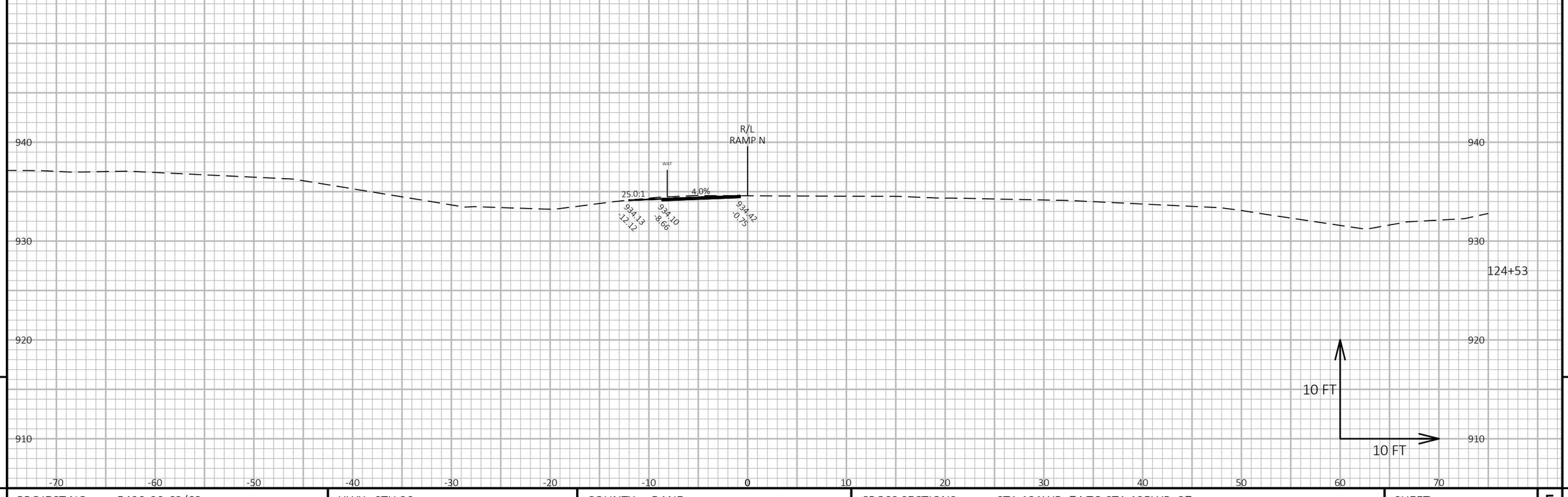
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 121WB+74 TO STA 125WB+37	SHEET 337	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs6

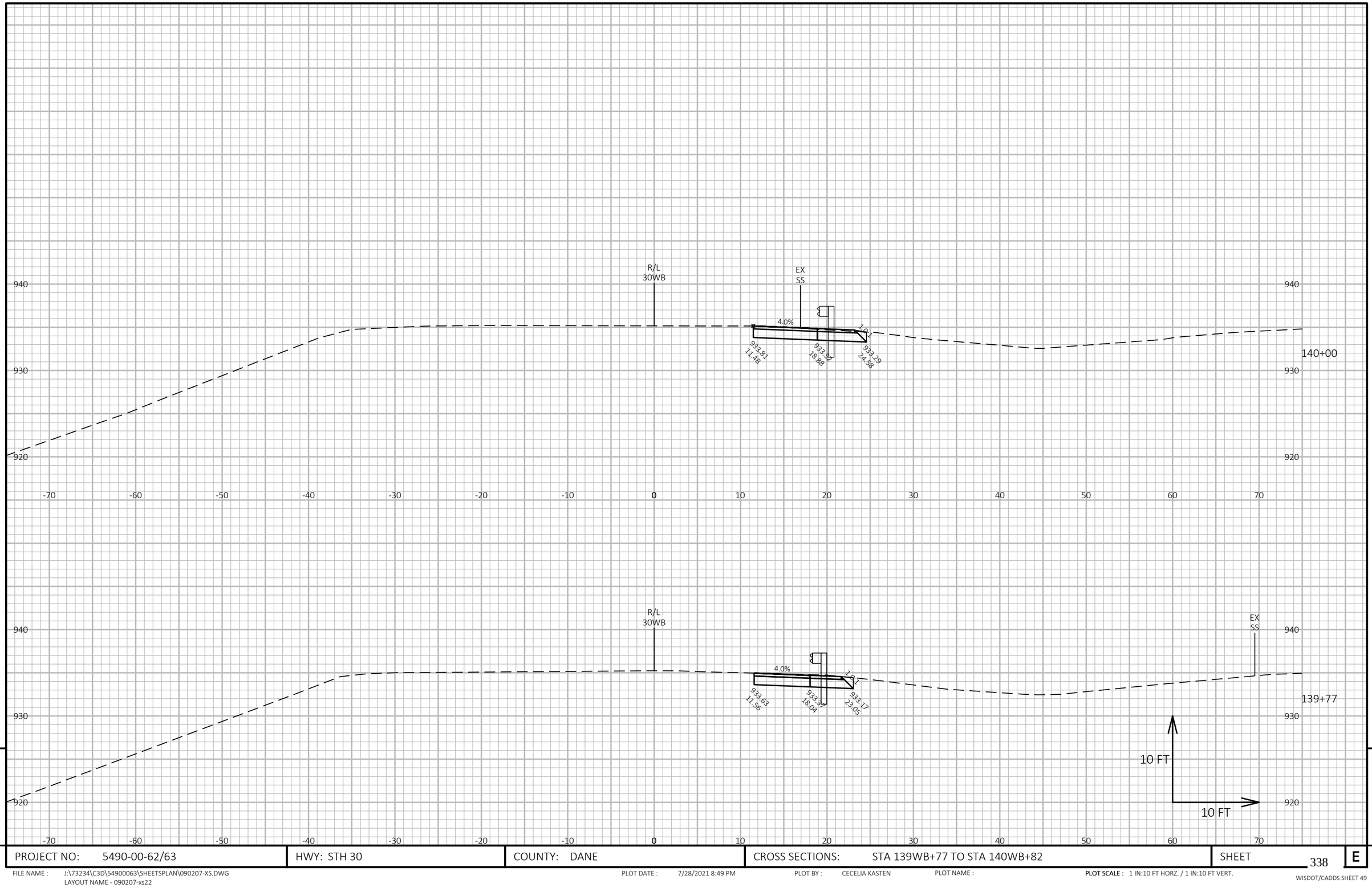
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 139WB+77 TO STA 140WB+82	SHEET 338 E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs22

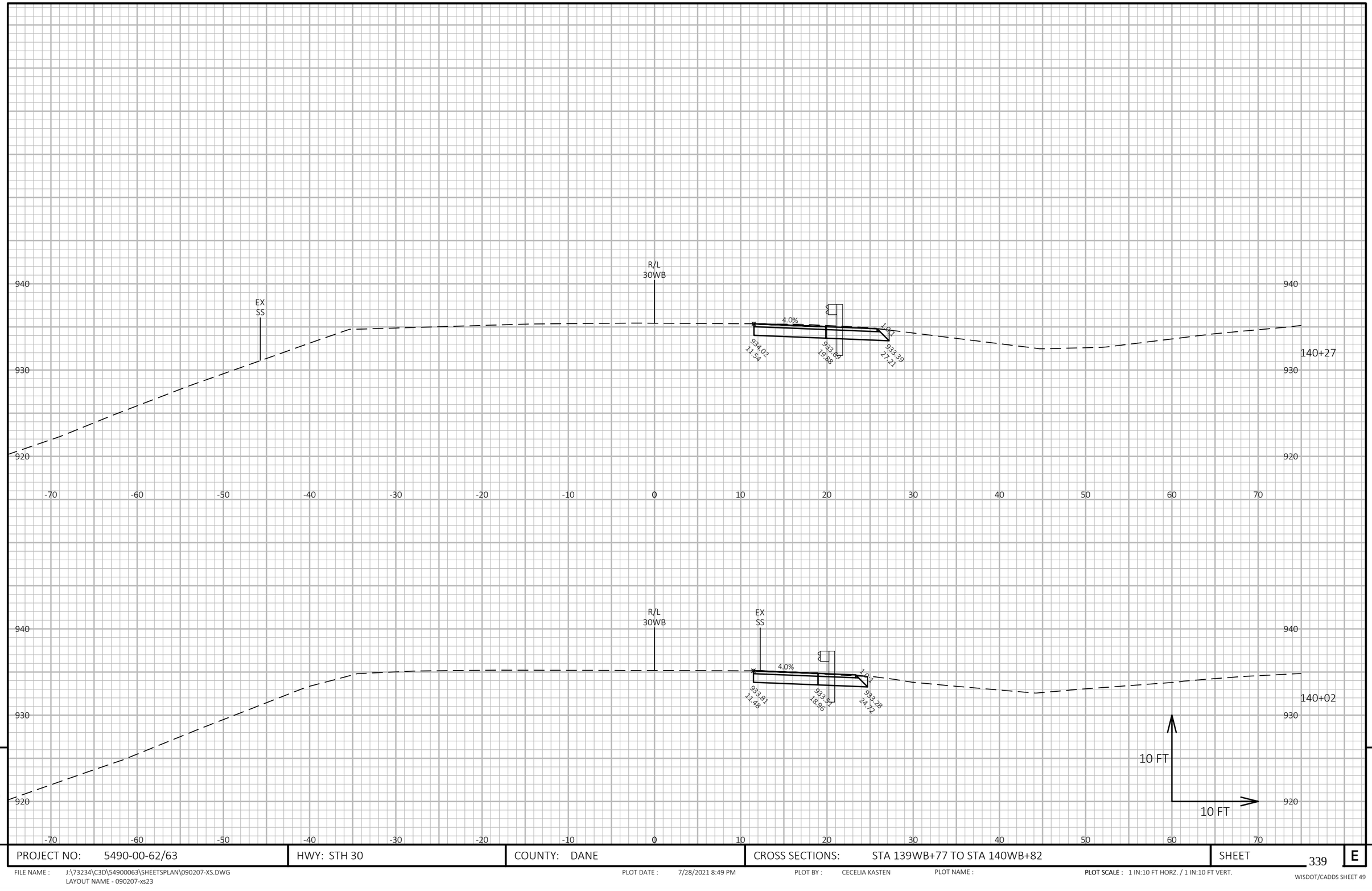
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 139WB+77 TO STA 140WB+82	SHEET 339	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs23

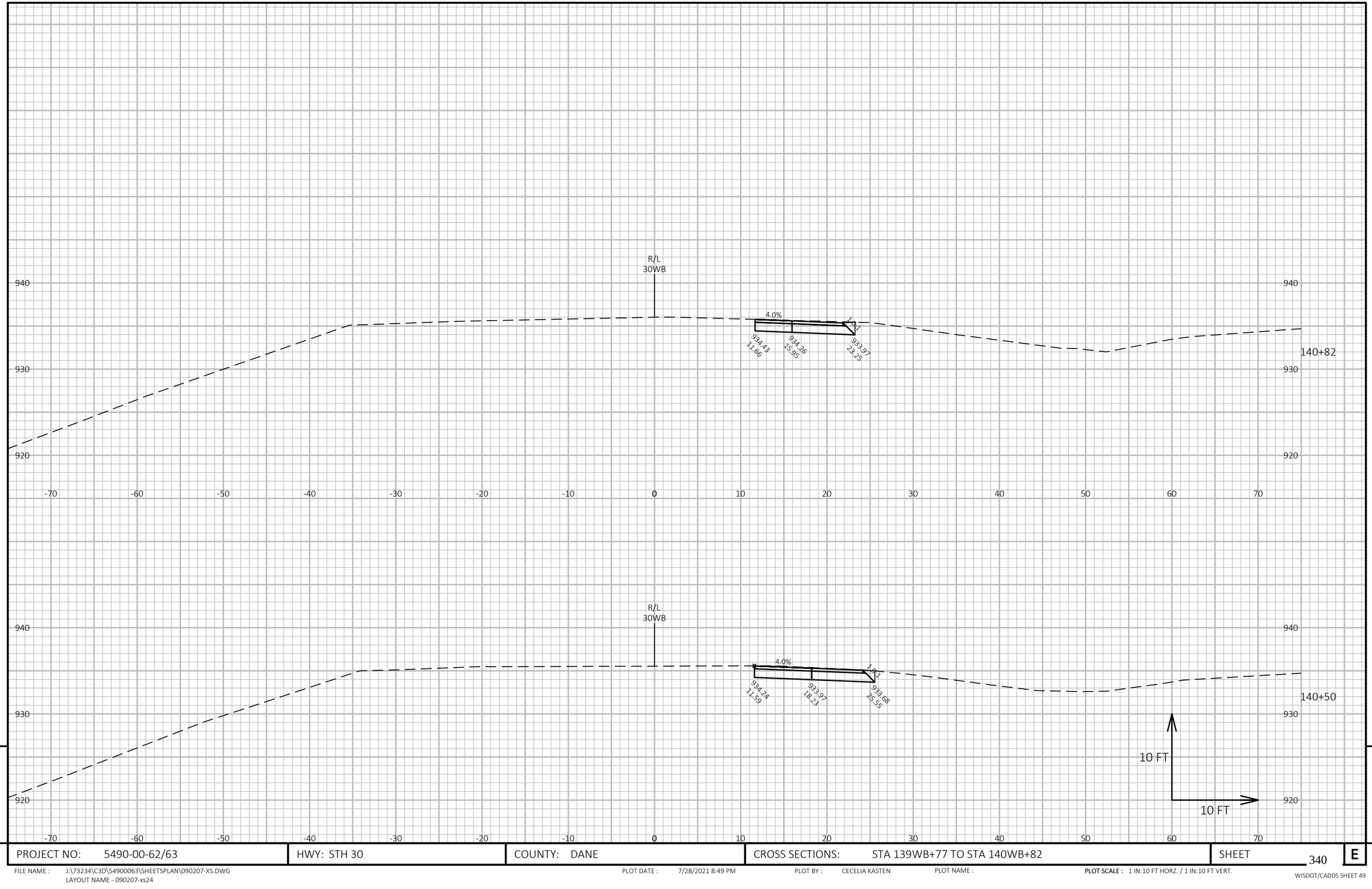
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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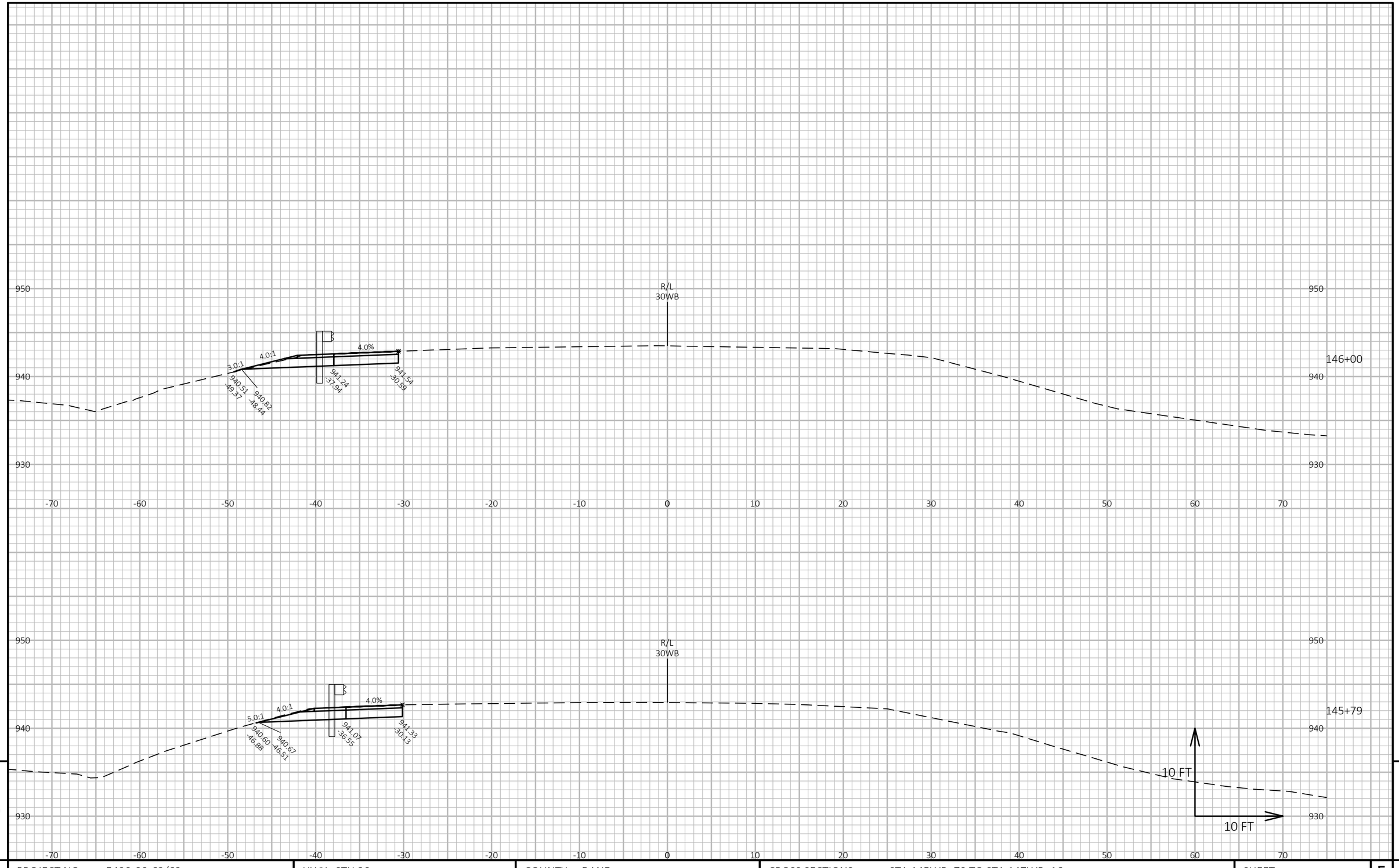
9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 139WB+77 TO STA 140WB+82	SHEET 340	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs24

PLOT DATE : 7/28/2021 8:49 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

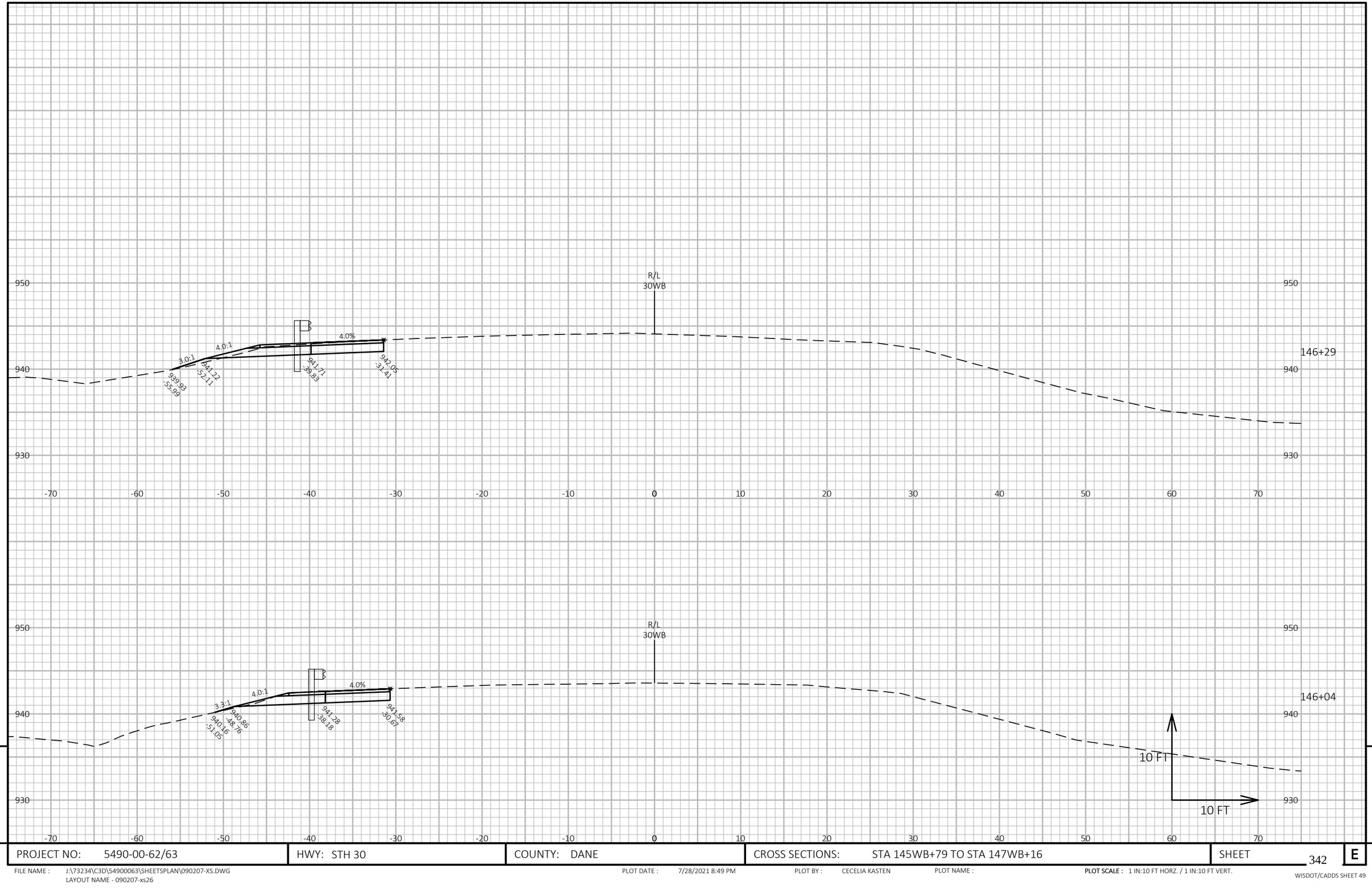


PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 145WB+79 TO STA 147WB+16	SHEET 341	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs25

PLOT DATE : 7/28/2021 8:49 PM PLOT BY : CECELIA KASTEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 145WB+79 TO STA 147WB+16	SHEET 342	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs26

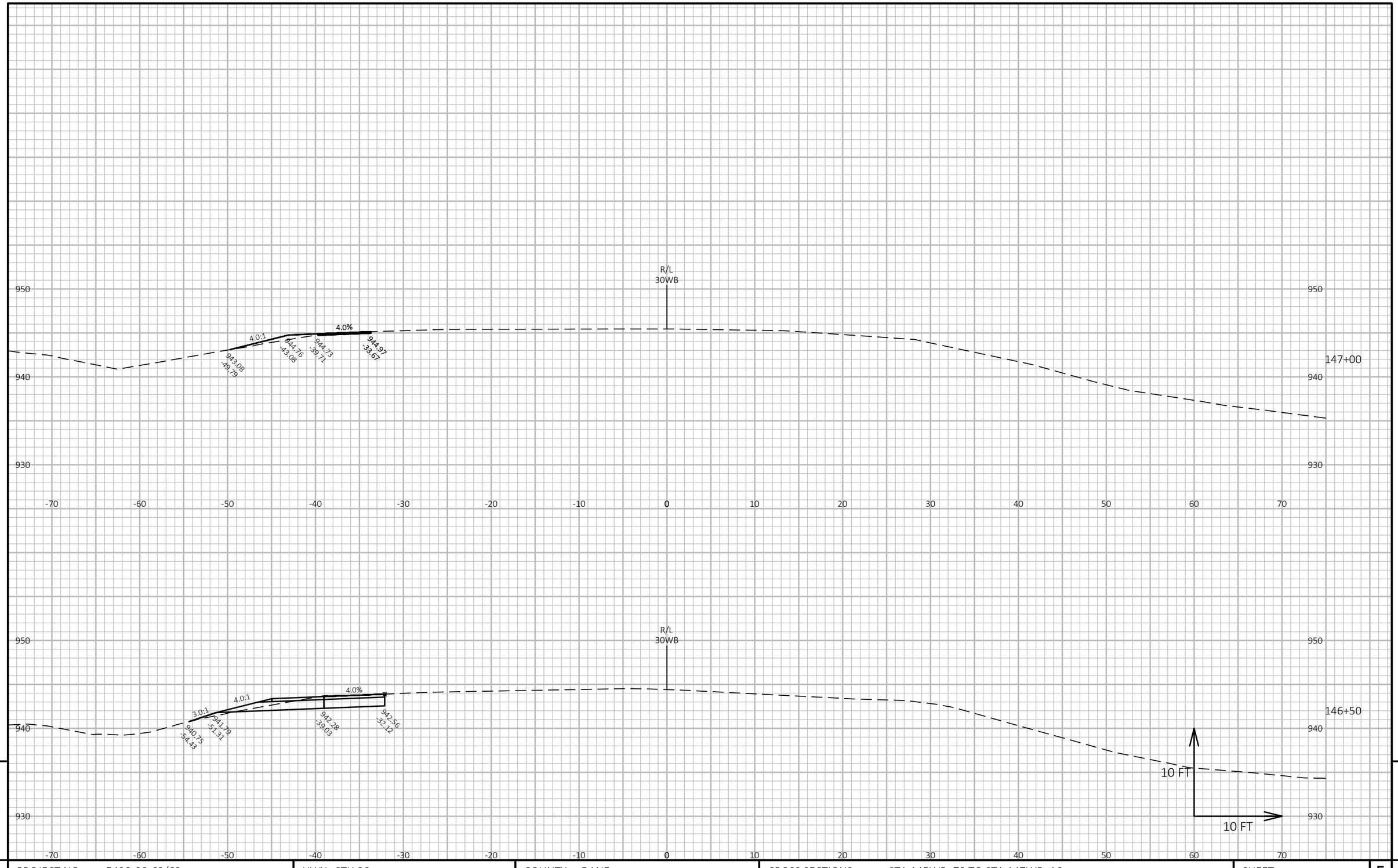
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 145WB+79 TO STA 147WB+16	SHEET 343	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs27

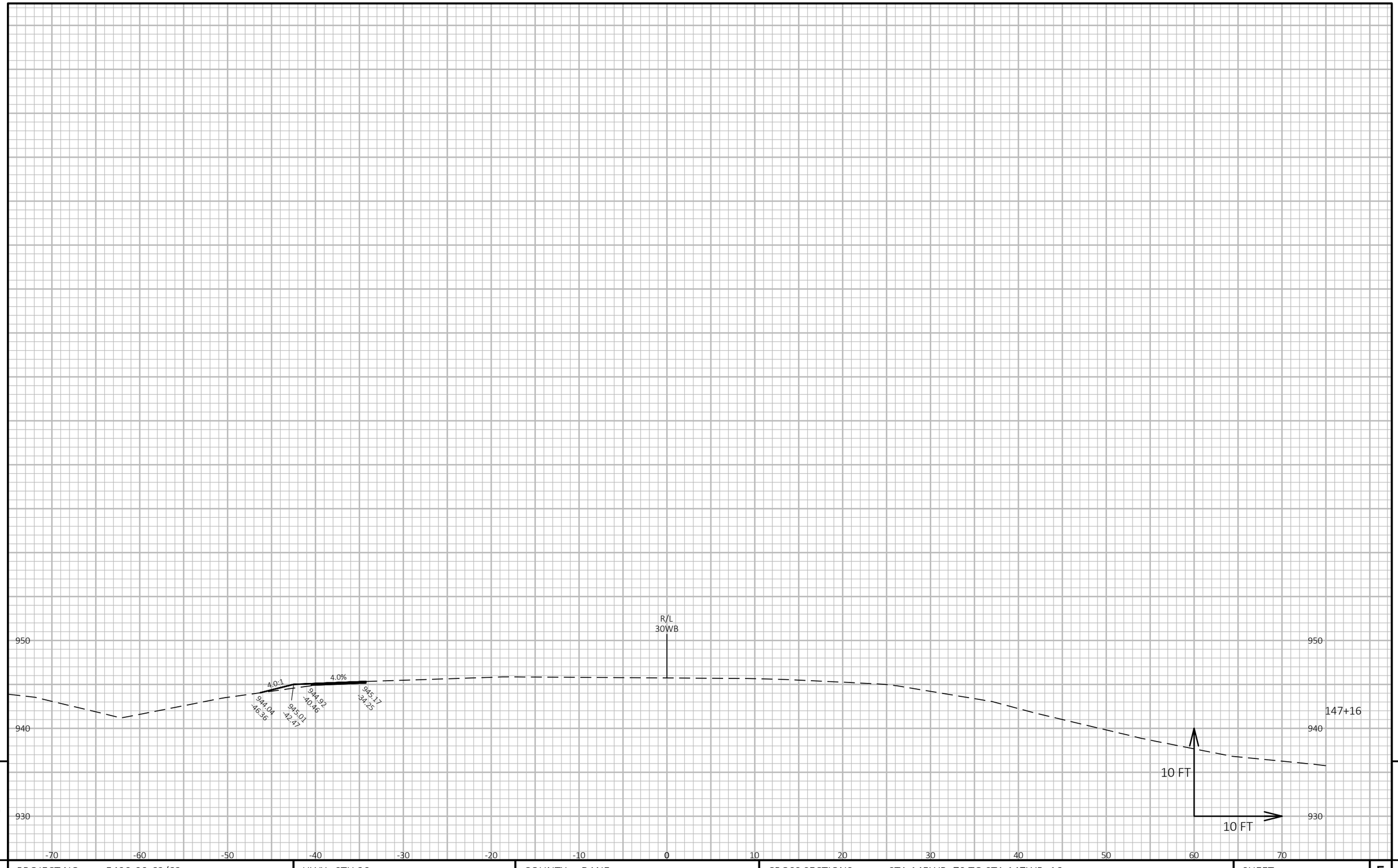
PLOT DATE : 7/28/2021 8:49 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5490-00-62/63	HWY: STH 30	COUNTY: DANE	CROSS SECTIONS: STA 145WB+79 TO STA 147WB+16	SHEET 344	E

FILE NAME : J:\73234\C3D\54900063\SHEETSPLAN\090207-XS.DWG
LAYOUT NAME - 090207-xs28

PLOT DATE : 7/28/2021 8:50 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

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