MAD

PROJECT ID: 5378-00-73

COUNTY: VERNON

OCTOBER 2025

ORDER OF SHEETS

TOTAL SHEETS = 44

DESIGN DESIGNATION 5378-00-03

A.A.D.T.	(2026)	=	50
A.A.D.T.	(2046)	=	55
D.H.V.		=	11
D.D.		=	62/38
T.		=	15.5%
DESIGN SPEED		=	30 M.P.H.
ESALS		=	15,000

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

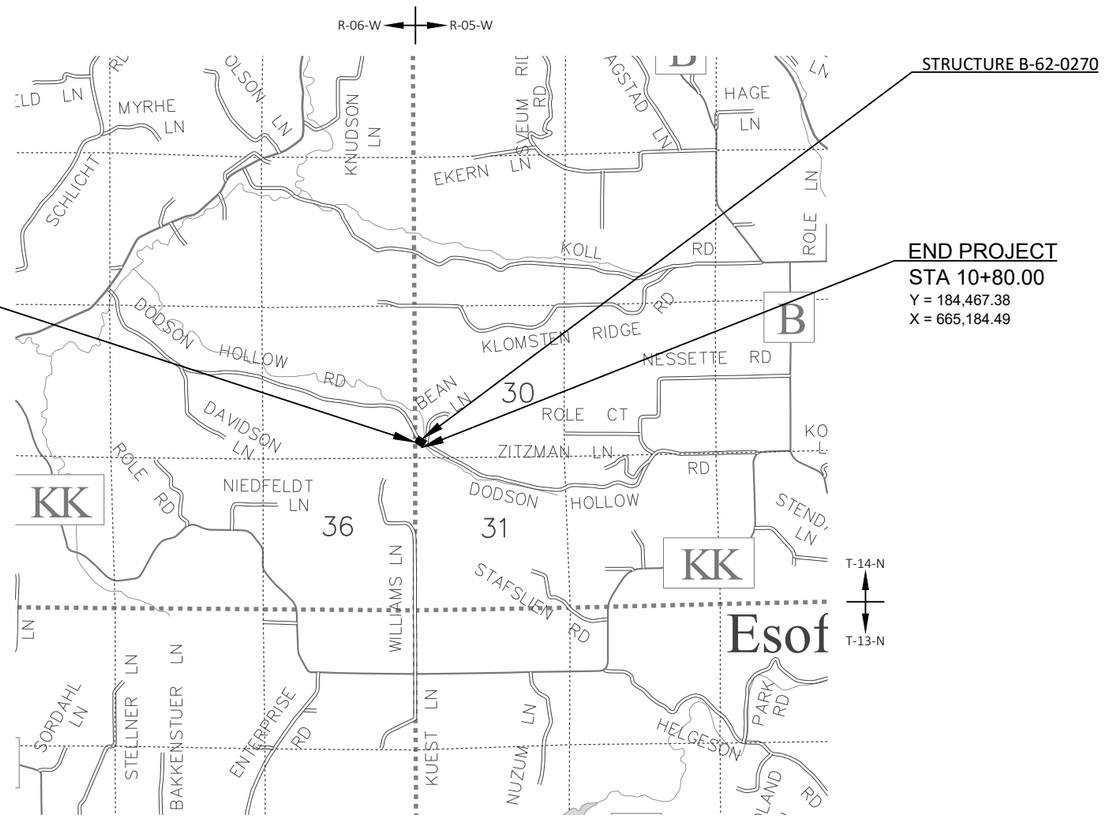
TOWN OF COON, DODSON HOLLOW ROAD

DODSON HOLLOW CREEK BR B-62-0270

LOCAL STREET
VERNON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5378-00-73	WISC 2026023	1

STATE PROJECT NUMBER
5378-00-73



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.034 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), VERNON 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.

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		**UTILITIES**	
REFERENCE LINE	300'EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
MARSH AREA		STORM SEWER	SS
WOODED OR SHRUB AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

ACCEPTED FOR

VERNON COUNTY

Date 6/11/25 Phil Hewitt
HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY

MSA
1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

WISCONSIN JOSHUA R. SWENO E-44384 WAUNAKEE WI PROFESSIONAL ENGINEER

DATE: 6/5/2025 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC
Designer	MSA PROFESSIONAL SERVICES, INC
Project Manager	LORRAINE BETZEL
Regional Examiner	SW REGION
Regional Supervisor	KYLE HEMP

APPROVED FOR THE DEPARTMENT

DATE: 6/12/2025 Lorraine Betzel (Signature)

E

2

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

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.

RESHAPE AND SEED ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

UTILITIES CONTACTS

COON VALLEY FARMERS TELEPHONE COMPANY
BURIED FIBER OPTIC AND TELEPHONE
BRADLEY PETERS
E3589 US HWY 14
COON VALLEY, WI 54623
PHONE: (608) 452-3101
EMAIL: BRADLEY.PETERS@COONVALLEYTEL.COM

VERNON ELECTRIC COOPERATIVE
OVERHEAD ELECTRIC
MATT DAHLEN
110 SAUGSTAD ROAD
WESTBY, WI 54667
PHONE: (608) 634-3121
EMAIL: MDAHLEN@VERNONELECTRIC.ORG

DESIGN CONTACT

JOSH SWENO, P.E.
MSA PROFESSIONAL SERVICES, INC.
1702 PANKRATZ STREET
MADISON, WI 53704
PHONE: (608) 355-8852
EMAIL: JSWENO@MSA-PS.COM

COUNTY HIGHWAY COMMISSIONER

PHIL HEWITT
VERNON COUNTY
1335 RAILROAD AVENUE
VIROQUA, WI 54665
PHONE: (608) 637-5452
EMAIL: PHIL.HEWITT@VERNONCOUNTY.ORG

WISCONSIN DNR LIAISON

KAREN KALVELAGE
DEPARTMENT OF NATURAL RESOURCES
3550 MORMAN COULEE ROAD
LA CROSSE, WI 54601
PHONE: (608) 785-9115
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

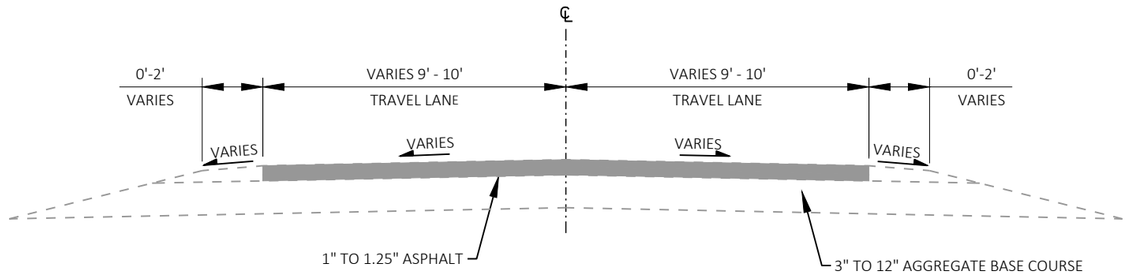
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 0.27 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.18 ACRES

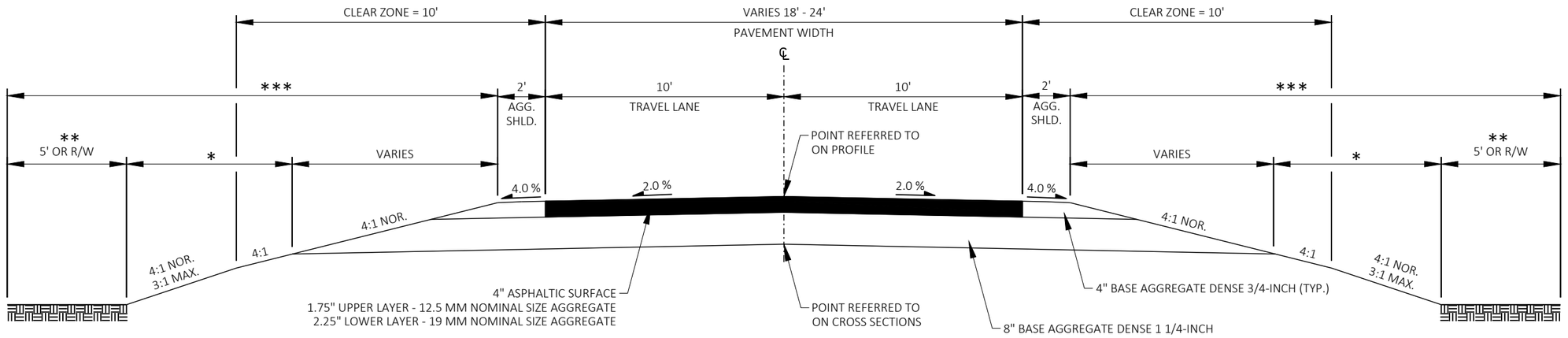
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com
*DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBER

2



EXISTING TYPICAL SECTION

STA 9+00 - STA 10+80



FINISHED TYPICAL SECTION

STA 9+00 - STA 10+80

NOTES:

* SALVAGED TOPSOIL & MULCH LIMITS

** MULCHING LIMITS

*** SEEDING MIXTURE #20 & FERTILIZER TYPE B LIMITS

PROJECT NO: 5378-00-73	HWY: LOCAL STREET	COUNTY: VERNON	TYPICAL SECTIONS	SHEET 3	E

Estimate Of Quantities

5378-00-73

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	60.000	60.000
0004	201.0220	Grubbing	ID	60.000	60.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-62-180	EACH	1.000	1.000
0008	205.0100	Excavation Common	CY	98.000	98.000
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-62-270	EACH	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	408.000	408.000
0014	213.0100	Finishing Roadway (project) 01. 5378-00-73	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	173.000	173.000
0020	455.0605	Tack Coat	GAL	17.000	17.000
0022	465.0105	Asphaltic Surface	TON	71.000	71.000
0024	502.0100	Concrete Masonry Bridges	CY	216.000	216.000
0026	502.3200	Protective Surface Treatment	SY	175.000	175.000
0028	502.3210	Pigmented Surface Sealer	SY	73.000	73.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,900.000	3,900.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	28,325.000	28,325.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	19.000	19.000
0036	550.0500	Pile Points	EACH	12.000	12.000
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	355.000	355.000
0040	602.3010	Concrete Surface Drains	CY	4.000	4.000
0042	606.0200	Riprap Medium	CY	3.000	3.000
0044	606.0400	Riprap Extra-Heavy	CY	197.000	197.000
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000
0048	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5378-00-73	EACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	4.000	4.000
0054	625.0500	Salvaged Topsoil	SY	289.000	289.000
0056	627.0200	Mulching	SY	433.000	433.000
0058	628.1504	Silt Fence	LF	354.000	354.000
0060	628.1520	Silt Fence Maintenance	LF	354.000	354.000
0062	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0066	628.6005	Turbidity Barriers	SY	205.000	205.000
0068	629.0210	Fertilizer Type B	CWT	0.500	0.500
0070	630.0120	Seeding Mixture No. 20	LB	19.700	19.700
0072	630.0200	Seeding Temporary	LB	11.800	11.800
0074	630.0500	Seed Water	MGAL	10.000	10.000
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0080	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,360.000	1,360.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	2,040.000	2,040.000
0088	643.0900	Traffic Control Signs	DAY	1,020.000	1,020.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000
0094	645.0120	Geotextile Type HR	SY	312.000	312.000
0096	650.4500	Construction Staking Subgrade	LF	128.000	128.000
0098	650.5000	Construction Staking Base	LF	128.000	128.000

Estimate Of Quantities

5378-00-73

Line	Item	Item Description	Unit	Total	Qty
0100	650.6501	Construction Staking Structure Layout (structure) 01. B-62-0270	EACH	1.000	1.000
0102	650.9911	Construction Staking Supplemental Control (project) 01. 5378-00-73	EACH	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	128.000	128.000
0106	690.0150	Sawing Asphalt	LF	48.000	48.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	1,296.000	1,296.000
0110	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0112	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,200.000	1,200.000
0114	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000

3

CLEARING & GRUBBING

CATEGORY	STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
0010	9+40	LT	30	30
0010	9+44	LT	30	30
		TOTAL 0010	60	60

EARTHWORK SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	FILL CY (1)	EXPANDED FILL CY (1) (2)	WASTE CY (1)
0010	9+00	-	9+75	DODSON HOLLOW RD	60	4	6	54
0010	10+39	-	10+80	DODSON HOLLOW RD	38	3	4	34
				TOTAL 0010	98			

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.
(2) - FILL EXPANSION 30%
(3) - EXISTING PAVEMENT IS INCLUDED IN EXCAVATION COMMON TOTALS. SEE EARTHWORK TABLE.

BASE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
0010	9+00	-	9+70	DODSON HOLLOW RD	10	88	2
0010	10+22	-	10+80	DODSON HOLLOW RD	6	85	2
				TOTAL 0010	16	173	4

3

ASPHALT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
0010	9+00	-	9+70	DODSON HOLLOW RD	9	37
0010	10+22	-	10+80	DODSON HOLLOW RD	8	34
				TOTAL 0010	17	71

CONCRETE SURFACE DRAINS

CATEGORY	STATION	LOCATION	602.3010 CONCRETE SURFACE DRAINS CY
0010	9+46	LT	2
0010	9+67	RT	2
		TOTAL 0010	4

RIPRAP ITEMS

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	* 645.0120 GEOTEXTILE TYPE HR SY
0010	9+67	RT	3	11
		TOTAL 0010	3	11

*ADDITIONAL QUANTITY LISTED IN STRUCTURE PLANS

RESTORATION ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	9+00	-	9+45	LT	71	100	0.1	4.5	2.7	2.3
0010	9+00	-	9+65	RT	74	105	0.1	4.8	2.9	2.4
0010	10+33	-	10+80	LT	57	86	0.1	3.9	2.3	2.0
0010	10+39	-	10+80	RT	29	55	0.1	2.5	1.5	1.3
0010	---	-	---	UNDISTRIBUTED	58	87	0.1	4.0	2.4	2.0
				TOTAL 0010	289	433	0.5	19.7	11.8	10.0

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.6005 TURBIDITY BARRIERS SY
0010	8+88	-	9+67	LT	87	87	---
0010	9+02	-	9+87	RT	87	87	---
0010	9+64	-	9+92	DODSON HOLLOW CREEK	---	---	65
0010	9+93	-	10+40	DODSON HOLLOW CREEK	---	---	99
0010	10+36		10+82	LT	50	50	---
0010	9+93	-	10+96	RT	59	59	---
0010	---	-	---	UNDISTRIBUTED	71	71	41
				TOTAL 0010	354	354	205

3

MOBILIZATIONS EROSION CONTROL

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT 5378-00-73	4	3
	TOTAL 0010	4	3

SIGNING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	9+70	-	10+22	LT/RT	4	12	---	BRIDGE OBJECT MARKERS W5-52R / W5-52L
0010	9+75	-	10+24	LT/RT	---	---	8	EXISTING BRIDGE OBJECT MARKERS/LOAD POSTINGS
				TOTAL 0010	4	12	8	

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	DAYS	TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY
0010	WEST APPROACH	85	9	765	14	1190	7	595
0010	EAST APPROACH/BEAN LANE	85	7	595	10	850	5	425
		TOTAL 0010		1,360		2,040		1,020

CONSTRUCTION STAKING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-62-0270) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 5378-00-73) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	9+00	-	9+70	DODSON HOLLOW RD	70	70	---	---	70
0010	10+22	-	10+80	DODSON HOLLOW RD	58	58	---	---	58
0010	---	-	---	PROJECT 5378-00-73	---	---	1	1	---
				TOTAL 0010	128	128	1	1	128

SAWING ASPHALT

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF
0010	9+00	DODSON HOLLOW RD	19
0010	10+80	DODSON HOLLOW RD	29
		TOTAL 0010	48

BIRD DETERRENT

CATEGORY	STATION	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. 10+00) EACH
0010	10+00	STRUCTURE P-62-0180	1
		TOTAL 0010	1

PI STA = 7+73.15
Y = 184622.723
X = 664910.732
DELTA = 35°43'25" LT
D = 15°10'57"
T = 121.61'
L = 235.30'
R = 377.38'
PC STA = 6+51.53
PT STA = 8+86.83
S.E. = 6% MAX

CONTROL POINTS				
NO.	STATION, OFFSET	DESCRIPTION	Y	X
101	9+51.23, 42.10' RT	⅝" IR	184,494.85	665,052.23
102	9+81.49, 46.45' RT	⅝" IR	184,476.22	665,076.48
103	6+71.47, 15.11' LT	⅝" IR	184,772.25	664,881.70
104	13+09.34, 12.98' LT	⅝" IR	184,346.74	665,379.39
105	10+56.92, 86.75' LT	⅝" IR	184,554.08	665,209.31

BENCH MARKS			
NO.	STATION, OFFSET	ELEV.	DESCRIPTION
200	8+27.69, 39.80' RT	799.86	RR SPIKE PP
201	10+02.90, 12.57' RT	800.82	CC SOUTH CENTER PIER
202	11+68.37, 29.89' LT	814.85	RR SPIKE 24 INCH OAK

EXIST. R/W
CP-103
7+00
8+00
9+00
10+00
11+00
12+00
13+00
EXIST. R/W
CP-104
CP-105
66'-0"
BEAN LANE
N
RICHARD F & DONNA J BEAN REVOCABLE LIVING TRUST
OVERHEAD ELECTRIC (VERNON ELECTRIC COOPERATIVE)
BM-202
STUART J SILL
PT: 8+86.83
PC: 10+41.38
PT: 11+07.25
PC: 12+49.13
66'-0"
CLEARING & GRUBBING
EDGE OF WATER (TYP.)
TELEPHONE PEDESTAL DISCONTINUED IN PLACE (COON VALLEY FARMERS TELEPHONE COMPANY)
TELEPHONE LINE ON BRIDGE DISCONTINUED IN PLACE (COON VALLEY FARMERS TELEPHONE COMPANY)
STA 9+14.54, 10' LT EDGE OF ASPHALT
STRUCTURE B-62-0270
STA 10+48.60, 11' LT EDGE OF ASPHALT
SAWING ASPHALT
SAWING ASPHALT
DODSON HOLLOW ROAD
(ASPHALT)
BM-201
STA 10+53.08, 11' RT EDGE OF ASPHALT
SLOPE INTERCEPT (TYP.)
SILT FENCE (TYP.)
STA 9+34.97, 10' RT EDGE OF ASPHALT
CP-101
CP-102
MATTHEW J ARENDT
CONCRETE SURFACE DRAIN (TYP.)
EXISTING RETAINING WALL (TO REMAIN)
TURBIDITY BARRIERS
EXISTING STRUCTURE P-62-0180 (TO BE REMOVED)
DODSON HOLLOW CREEK
BURIED FIBER OPTIC (COON VALLEY FARMERS TELEPHONE COMPANY)
BM-200
OH
FO
GUY
HO

PI STA = 10+74.35
Y = 184471.191
X = 665180.179
DELTA = 6°08'14" RT
D = 9°18'59"
T = 32.97'
L = 65.87'
R = 615.00'
PC STA = 10+41.38
PT STA = 11+07.25
S.E. = N.C.

MATTHEW J ARENDT

END PROJECT
STA 10+80
Y = 184,467.38
X = 665,184.49

PI STA = 13+12.04
Y = 184333.162
X = 665373.760
DELTA = 5°23'03" LT
D = 4°16'58"
T = 62.90'
L = 125.72'
R = 1337.78'
PC STA = 12+49.13
PT STA = 13+74.85
S.E. = N.C.

BEGIN PROJECT
STA 9+00
Y = 184,556.65
X = 665.028.21

LEGEND
RIPRAP

REMOVE EXISTING STRUCTURE P-62-0180
TWO SPAN STEEL DECK GIRDER BRIDGE
19.9 FT CLEAR ROADWAY WIDTH
50.4 FT OVERALL LENGTH
15° SKEW (RHF)

STA. 9+96, STRUCTURE B-62-0270
SINGLE SPAN FLAT CONCRETE SLAB BRIDGE
24.0 FT CLEAR ROADWAY WIDTH
52.6 FT OVERALL LENGTH
15° SKEW (RHF)

STA 9+00.00
EL 801.54
STA 10+80.00
EL 805.87
EXISTING ℄ PROFILE
FINISHED ℄ PROFILE
2.41%

EARTHWORK SUMMARY	
STA 9+00 - STA 10+80	
EXC. COMMON	98 CY
FILL	7 CY
FILL EXPANSION	30%
WASTE	88 CY

EXISTING	798.89	798.50	799.00	799.59	801.54	803.04	794.74	805.04	806.56	808.29	811.65	815.71	820.23
FINISHED					801.54	802.74	803.95	805.15					

7+00 8+00 9+00 10+00 11+00 12+00 13+00

PROJECT NO: 5378-00-73	HWY: LOCAL STREET	COUNTY: VERNON	PLAN AND PROFILE: DODSON HOLLOW RD	SHEET 8	E

FILE NAME : G:\07\07339\07339037\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 01
PLOT DATE : 4/30/2025 6:46 AM
PLOT BY : CONNOR GIRTEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

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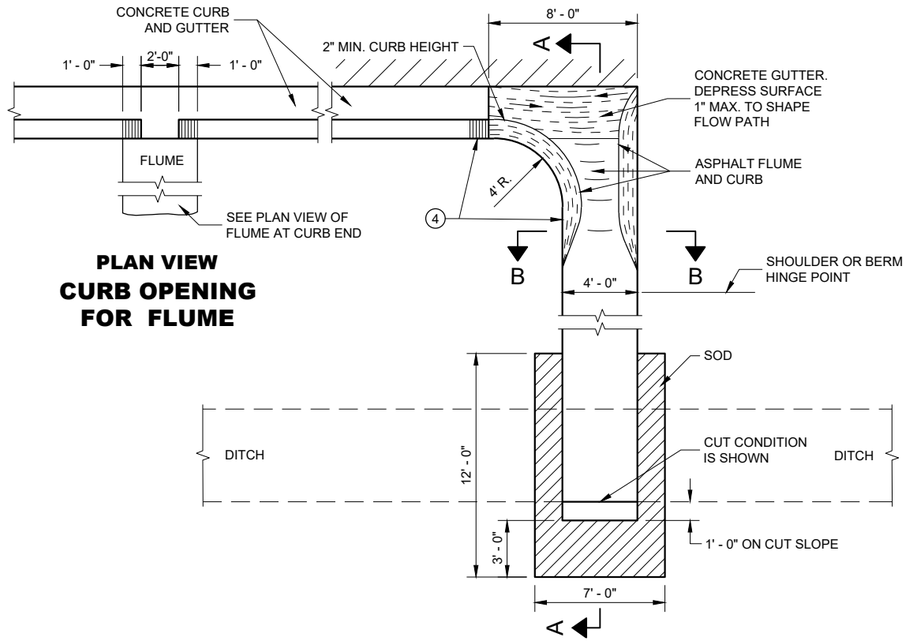
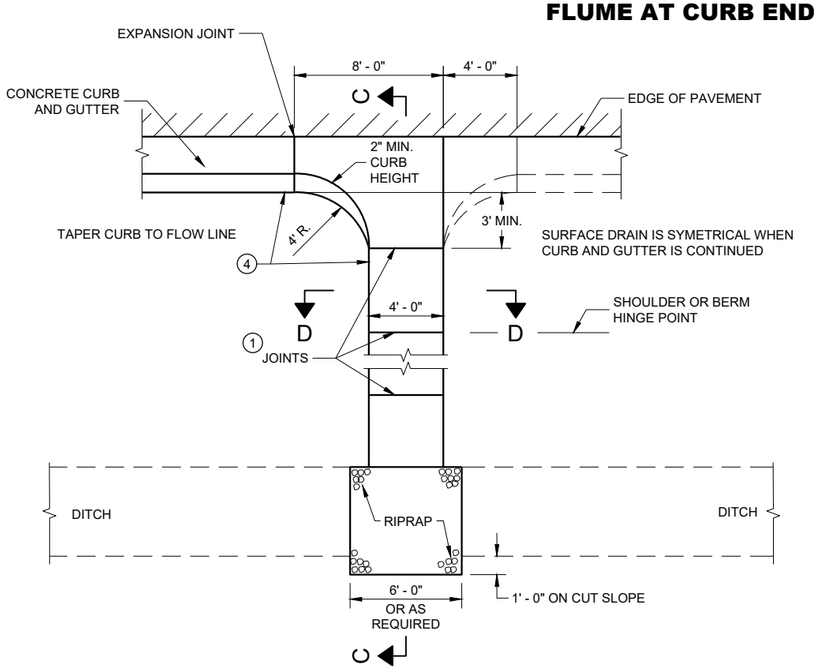
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



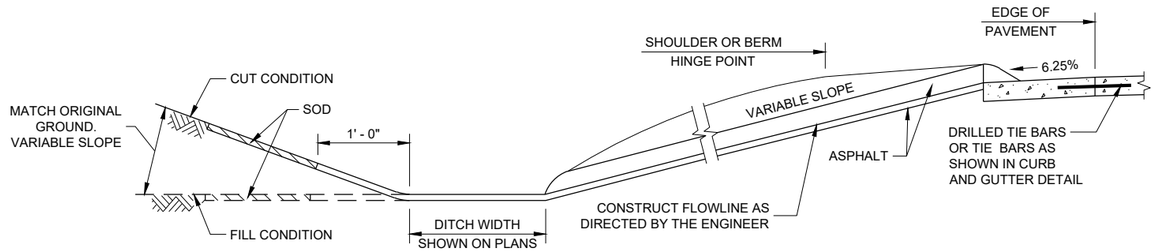
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

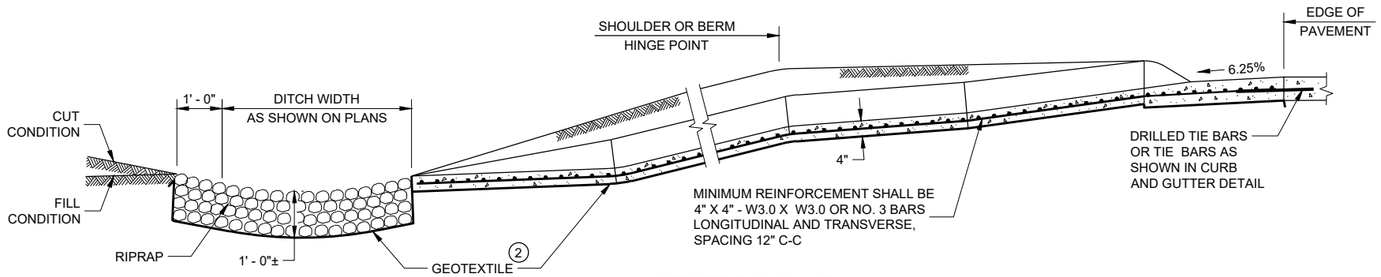
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

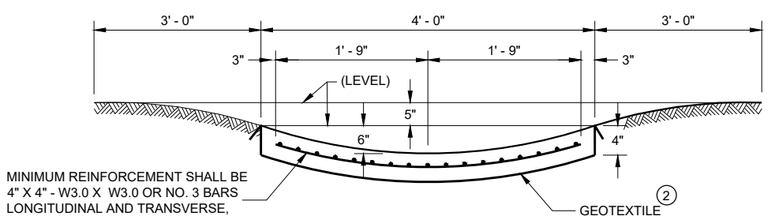


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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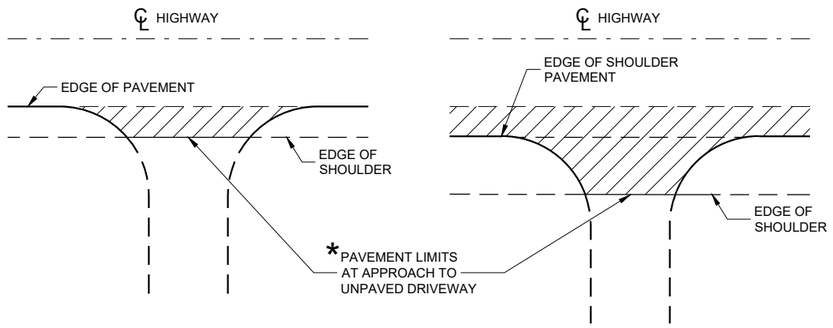
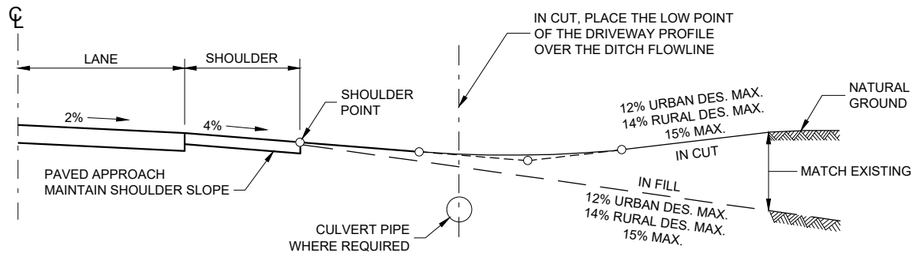
SDD 08D04 - 07



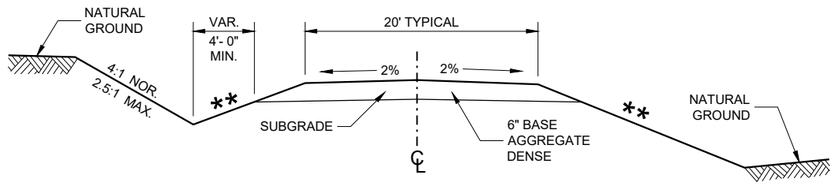
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

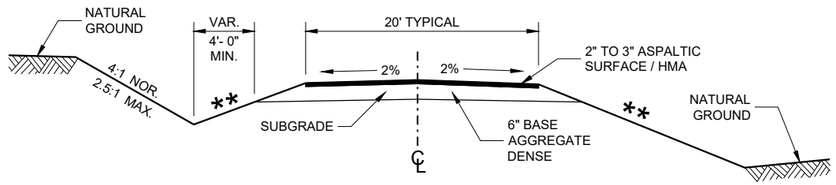


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

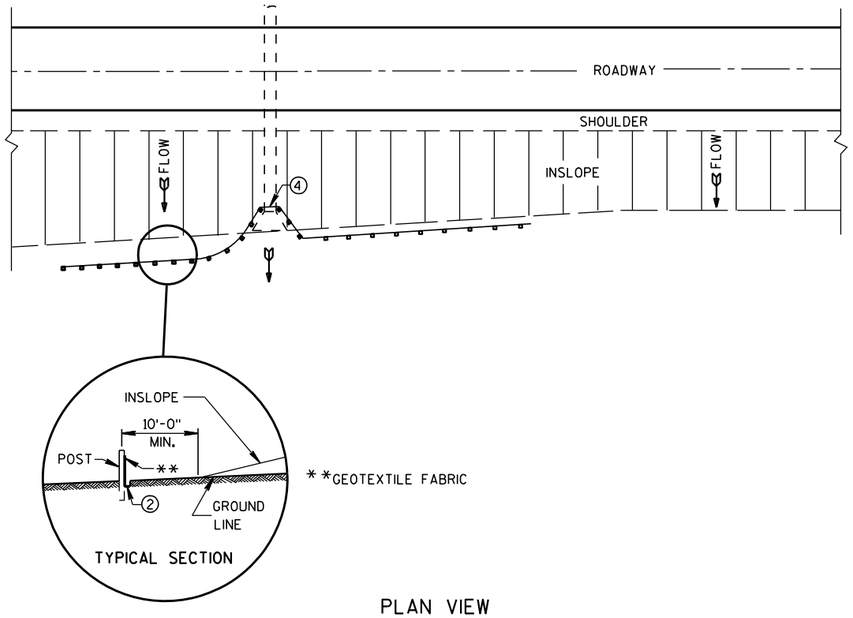
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

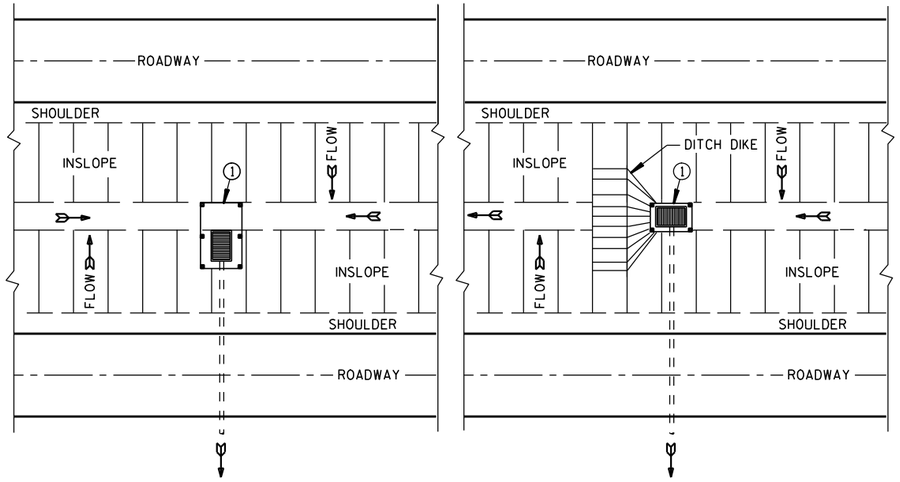
6

SDD 08D21 - 01
SDD 08D21 - 01



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



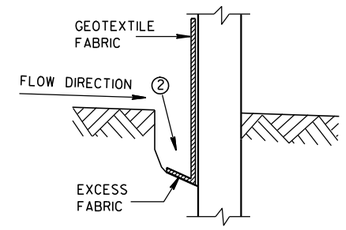
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

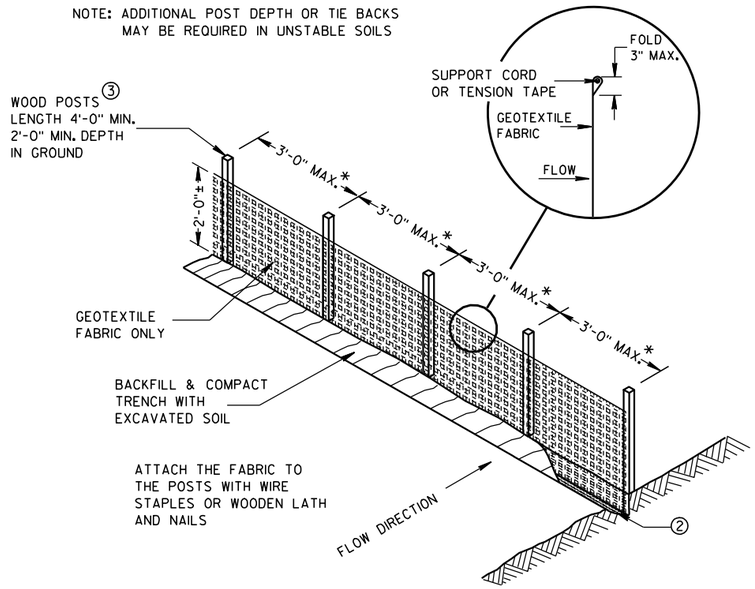
GENERAL NOTES

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

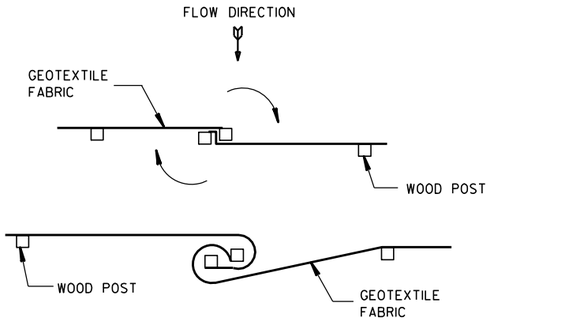
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



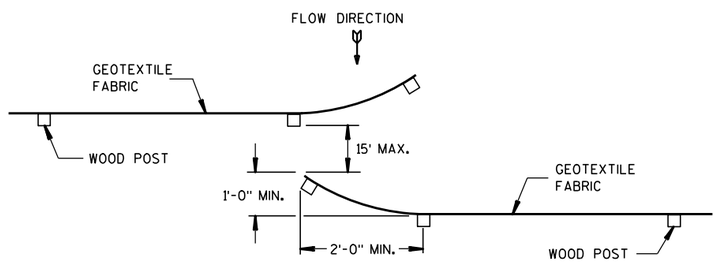
TRENCH DETAIL



SILT FENCE

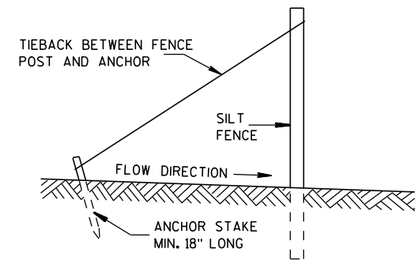


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

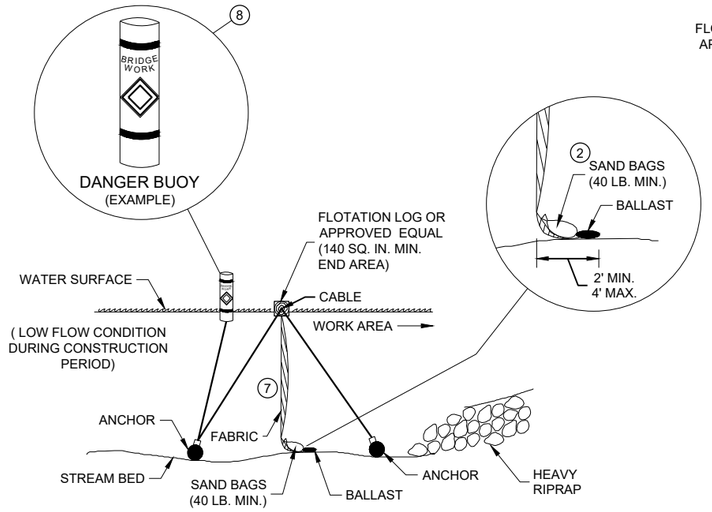
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

6

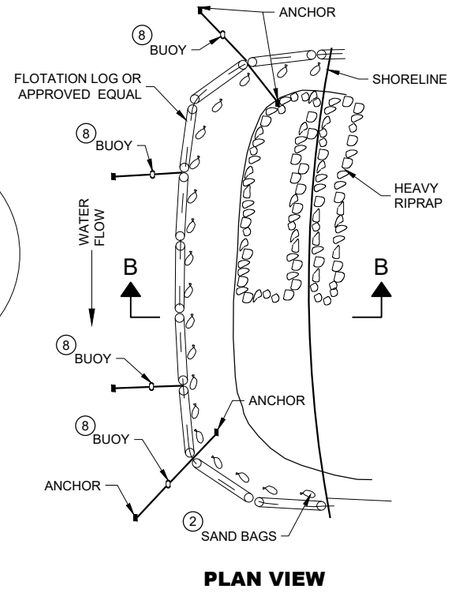
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

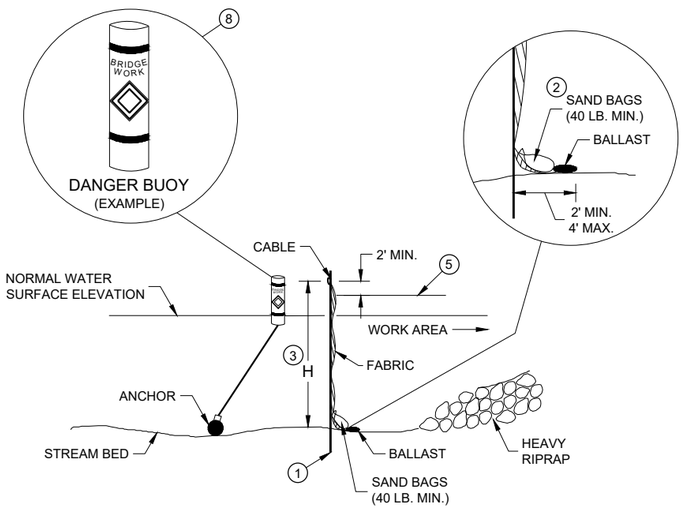


SECTION B - B

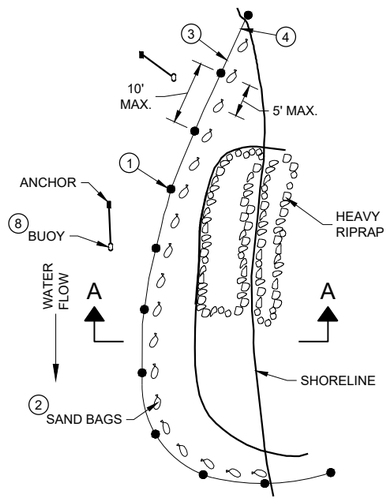


PLAN VIEW

TURBIDITY BARRIER - FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A - A



PLAN VIEW

TURBIDITY BARRIER - STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

(1) DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

(2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

(3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.

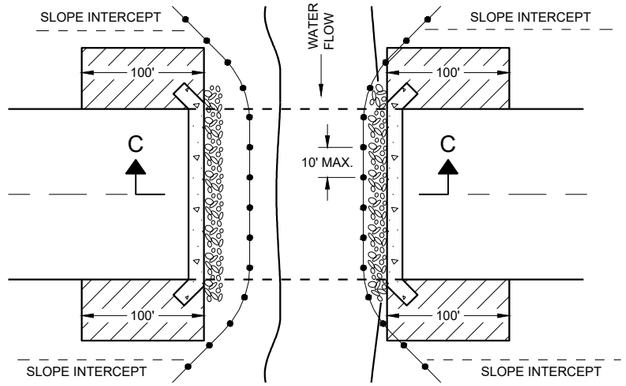
(4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

(5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

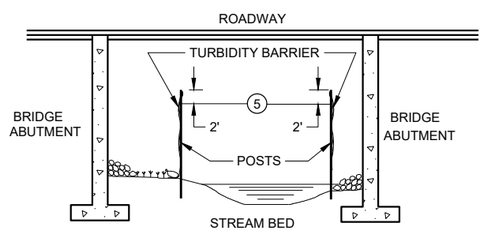
(6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.

(7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

(8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

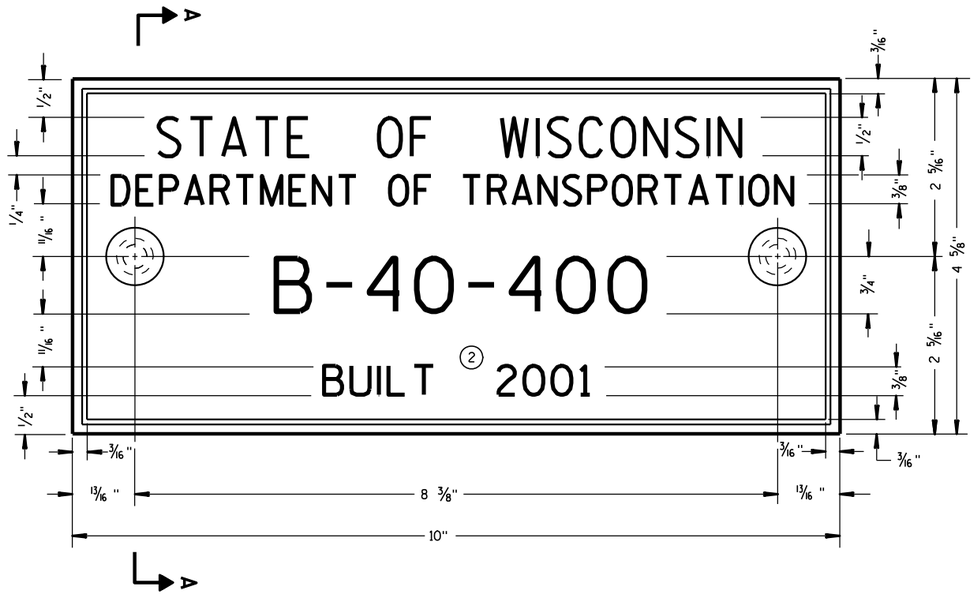
TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/4/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
SDD 08E11 - 02



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

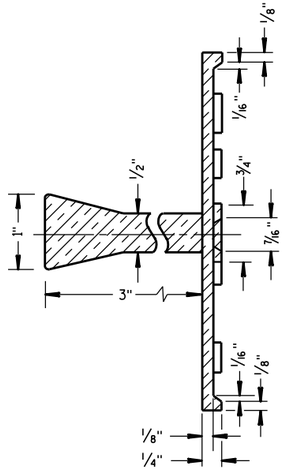
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

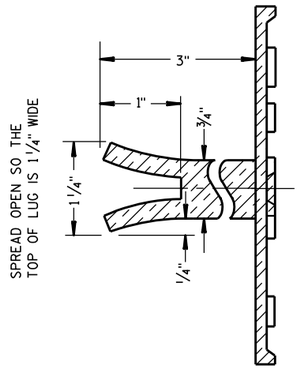
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

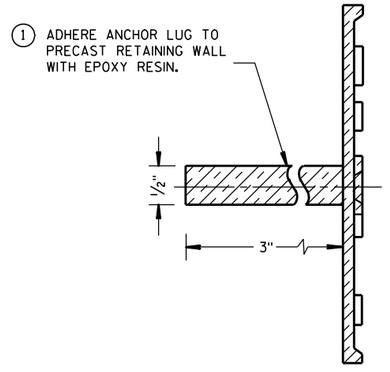
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

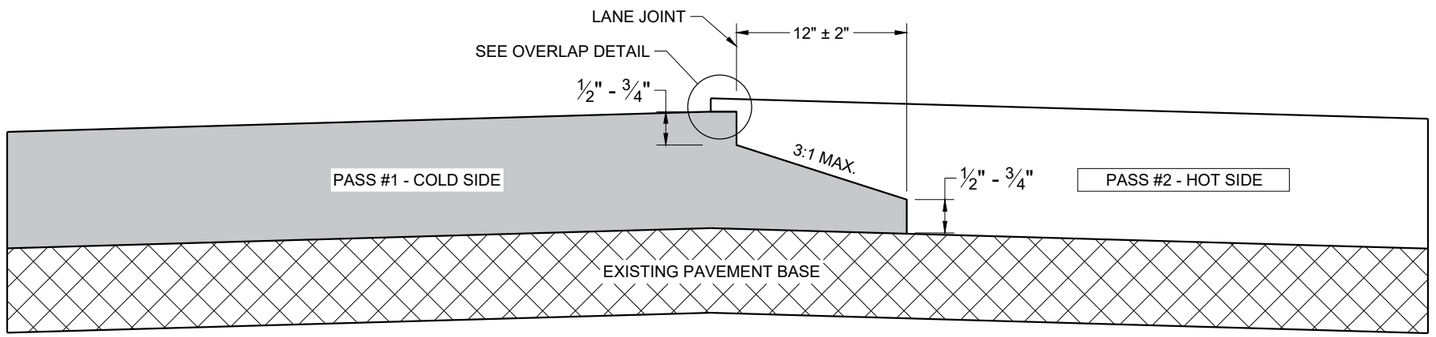
3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

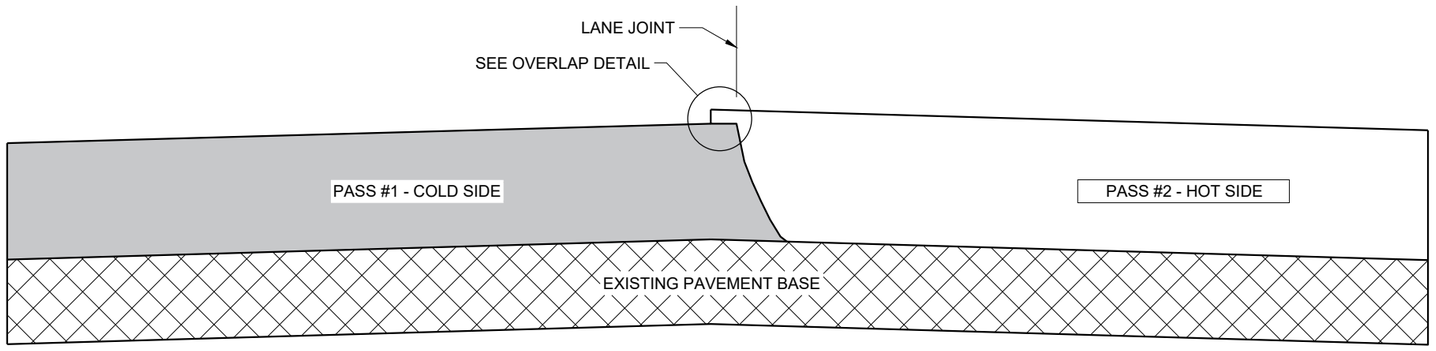
FHWA

6

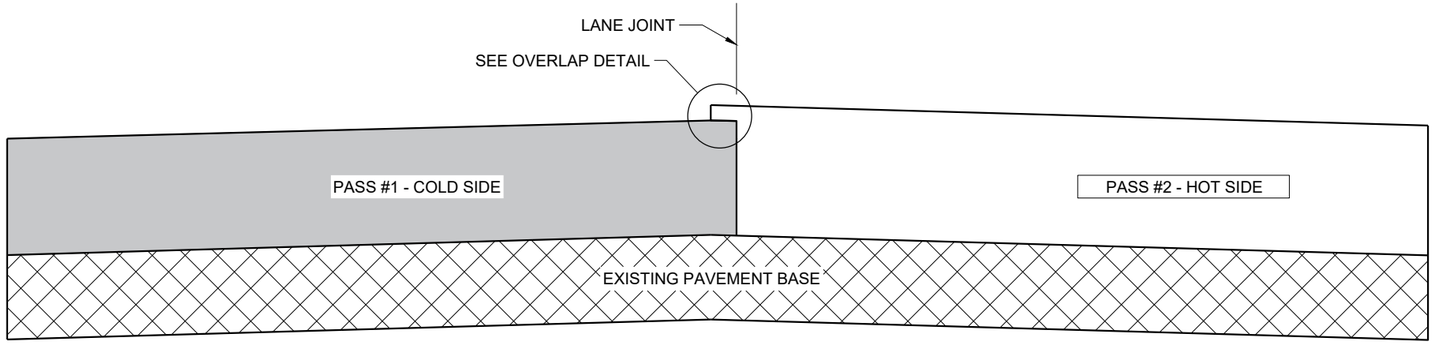
S.D.D. 12 A 3-10



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

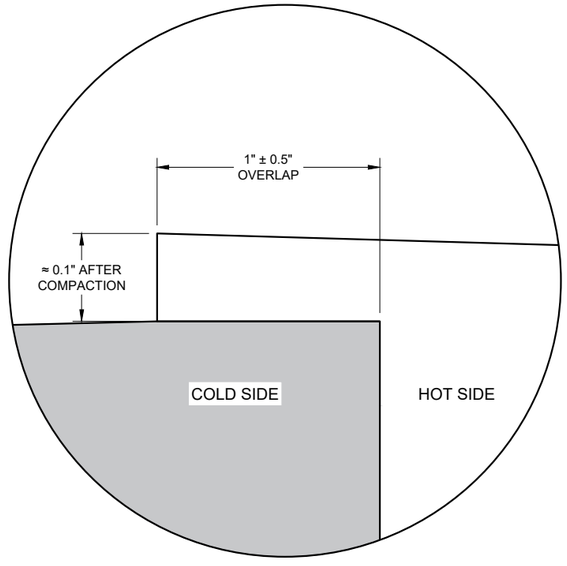
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

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SDD 13C19 - 03

SDD 13C19 - 03

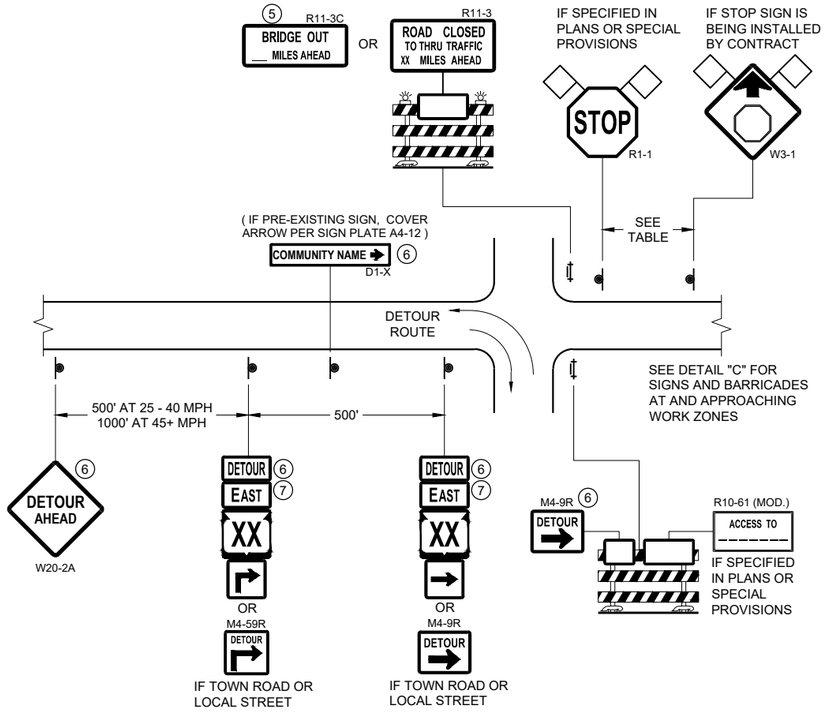
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

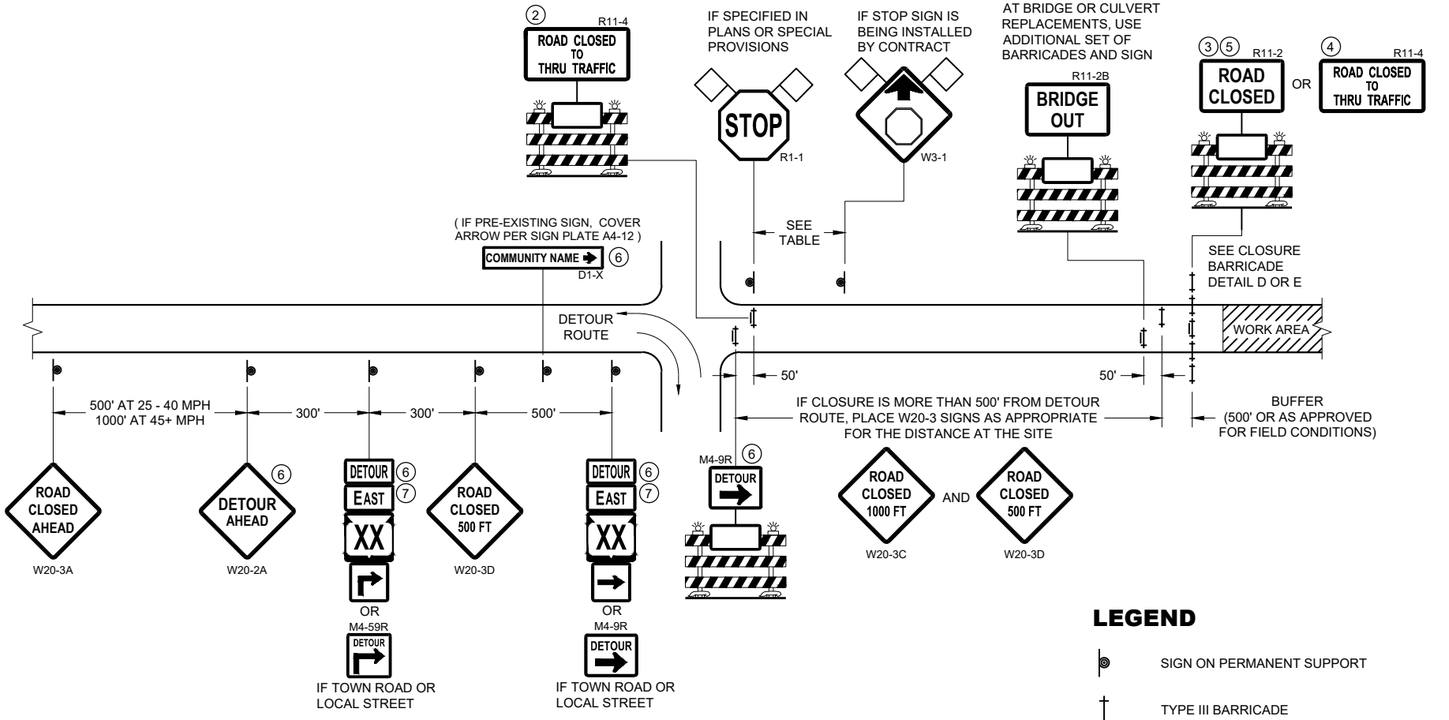
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



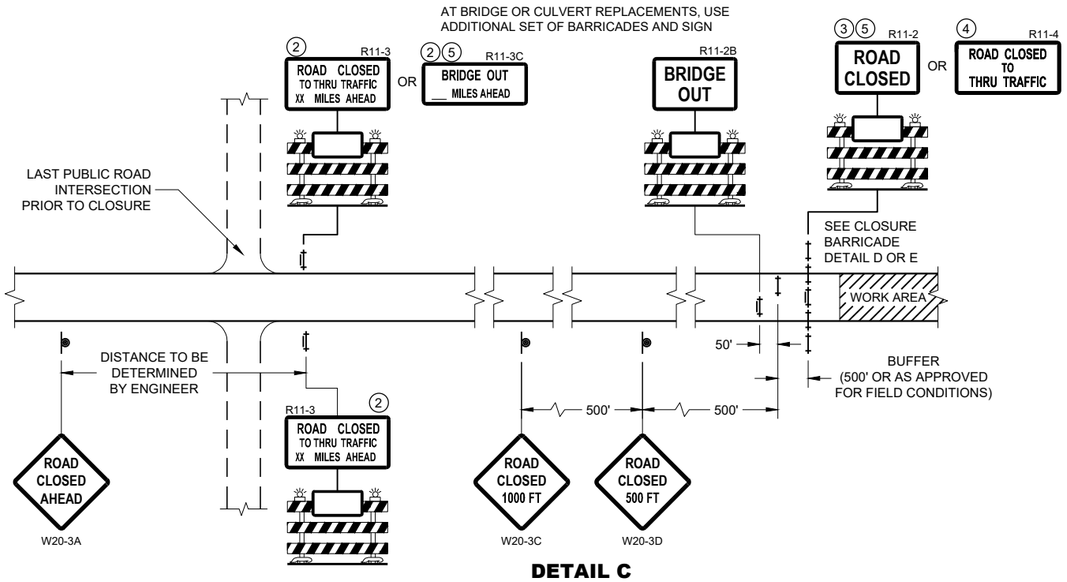
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

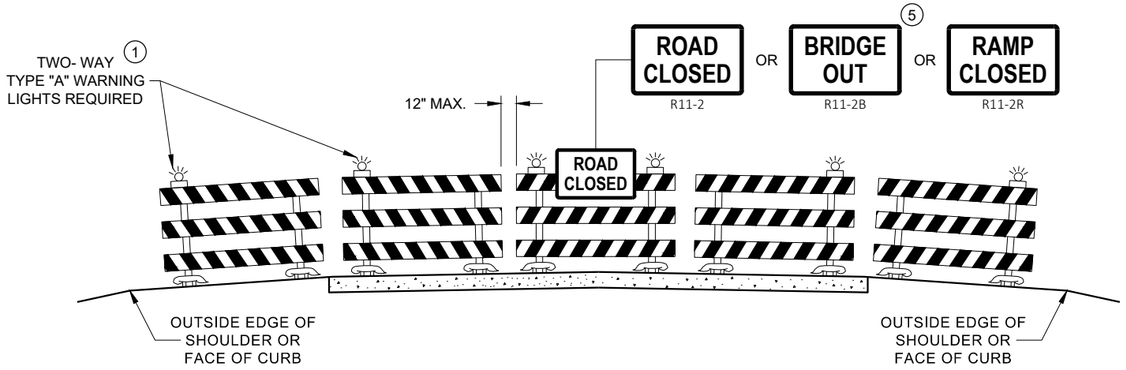
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

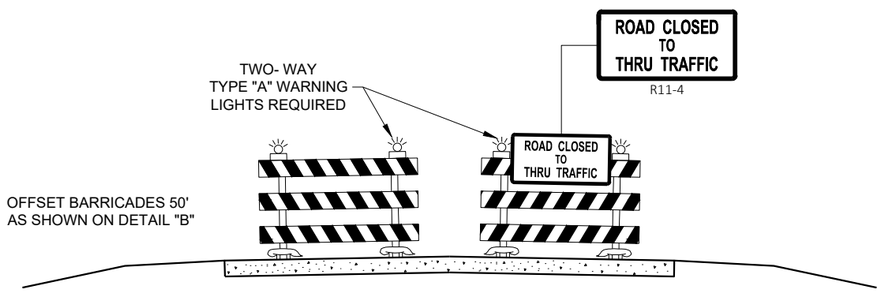
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

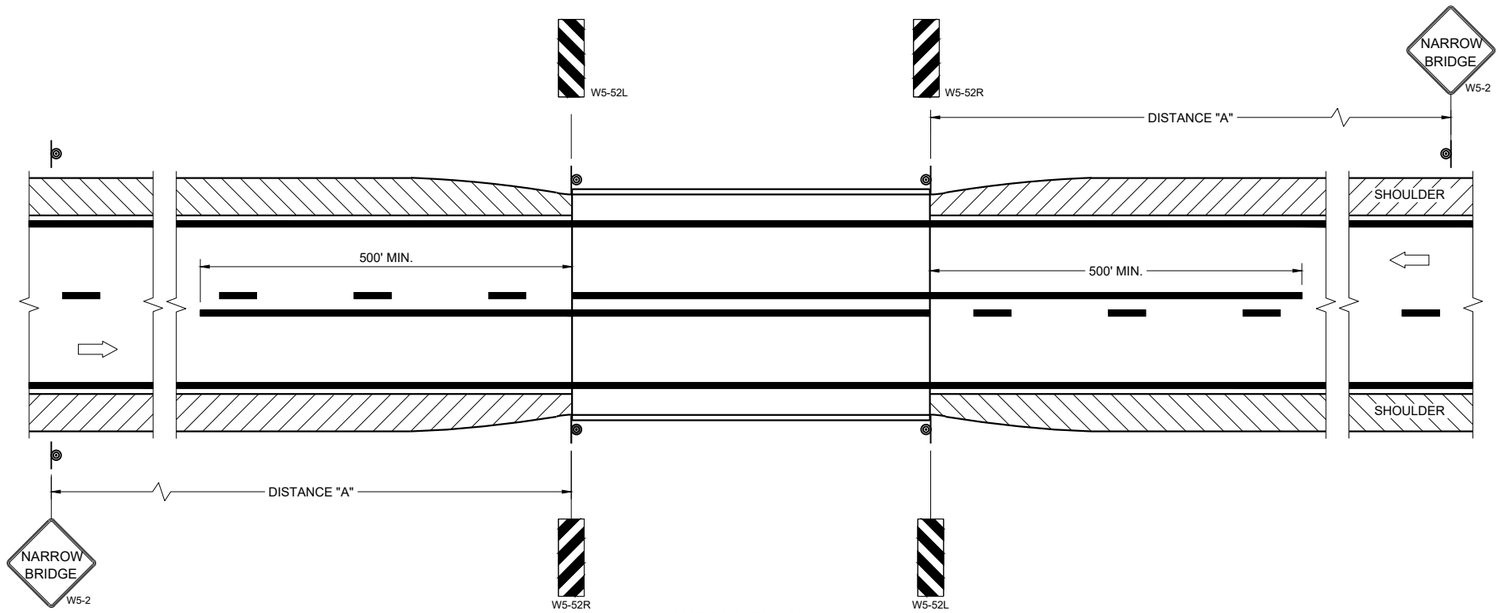
FHWA

6

SDD 15C02 - 09b

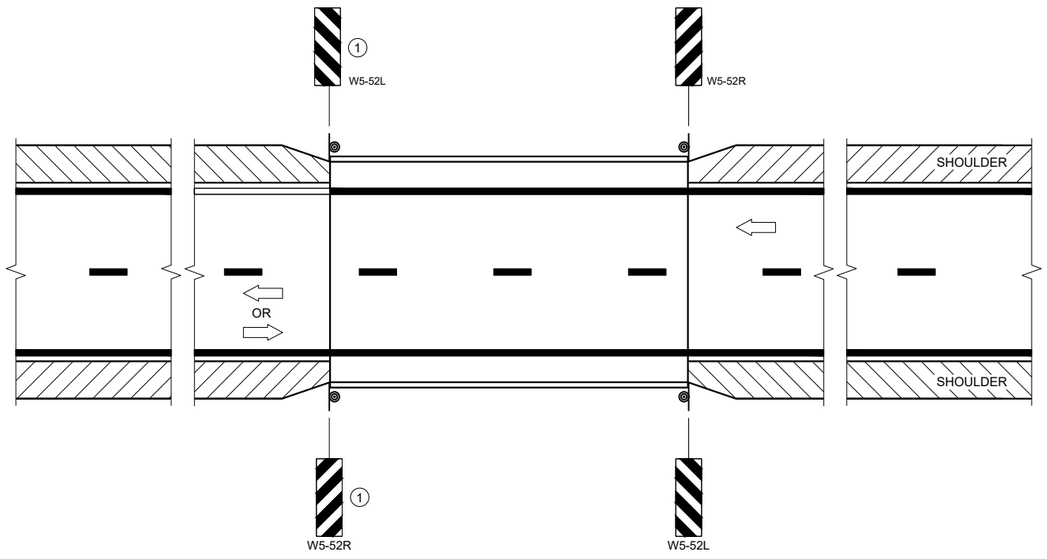
6

SDD 15C02 - 09b



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

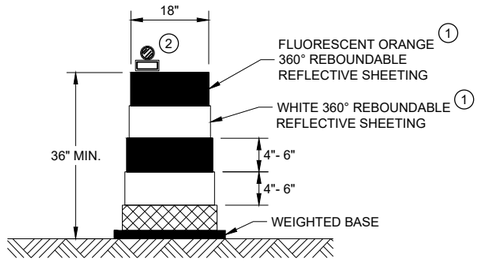
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6
SDD 15C06-12

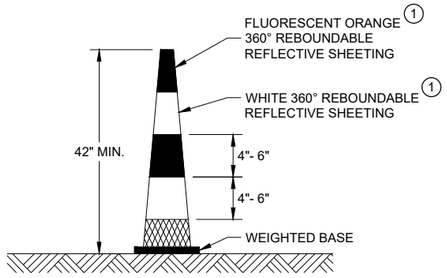
GENERAL NOTES

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

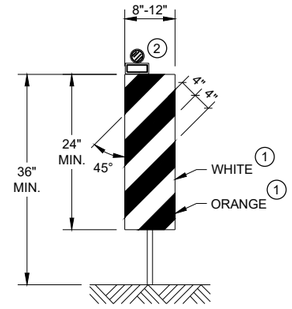
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

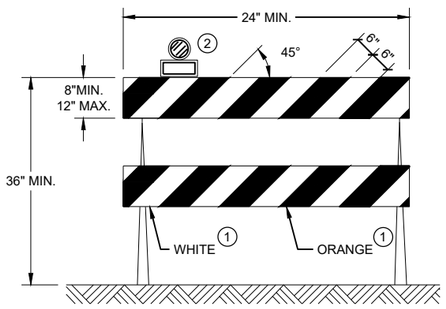
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



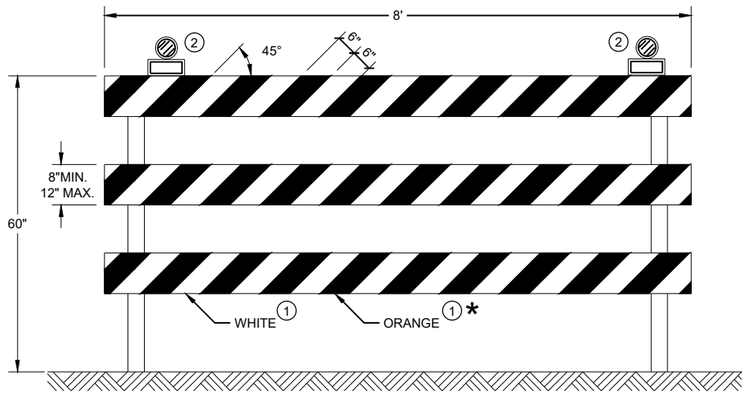
VERTICAL PANEL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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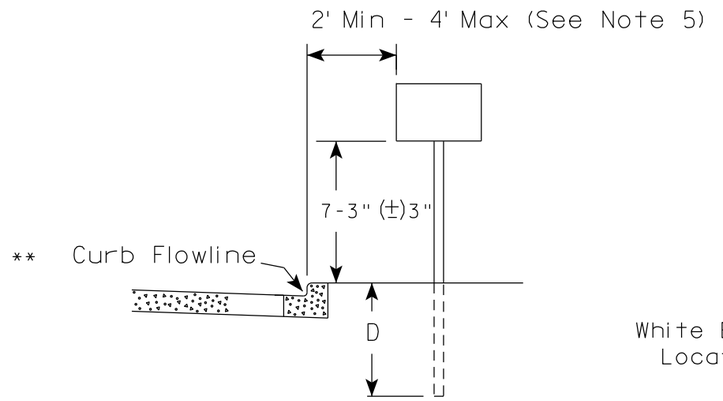
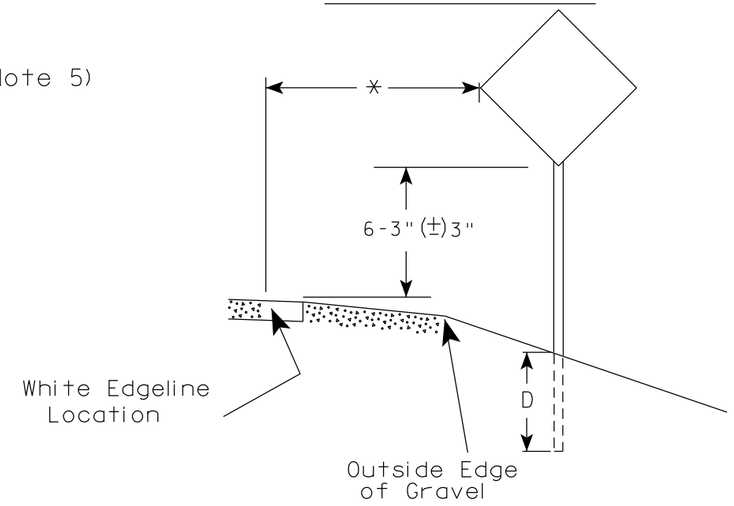
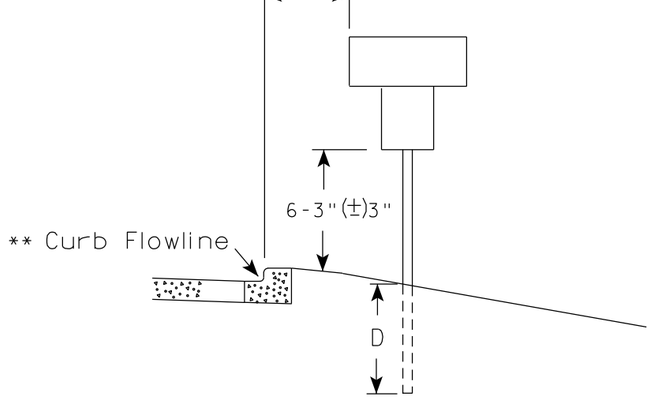
SDD 15C11 - 10b
SDD 15C11 - 10b

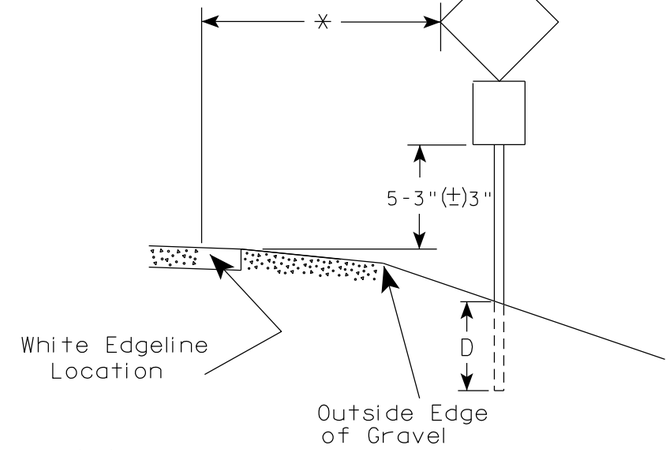
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

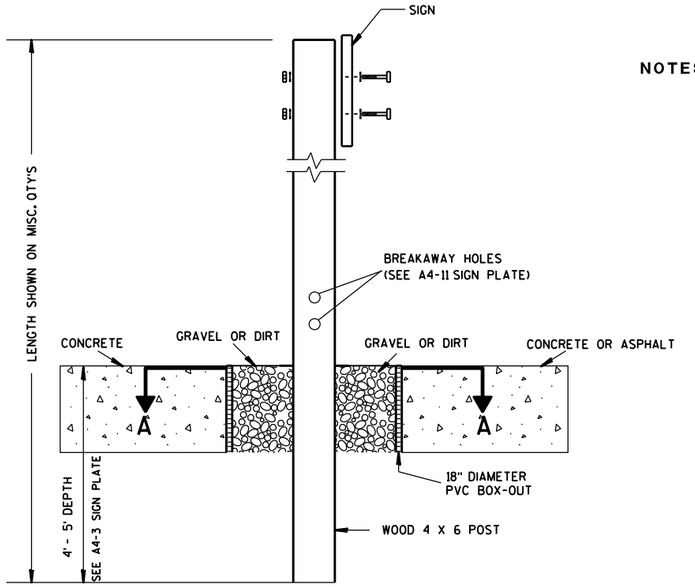
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

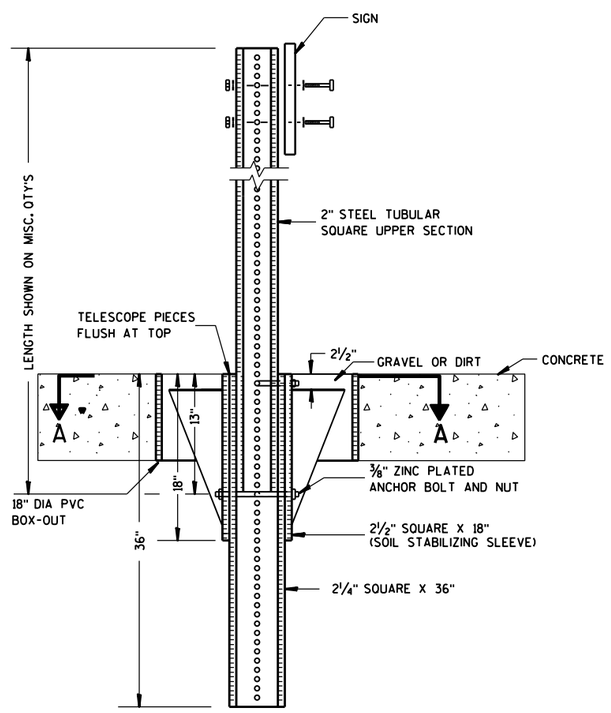
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 20	E



ELEVATION VIEW

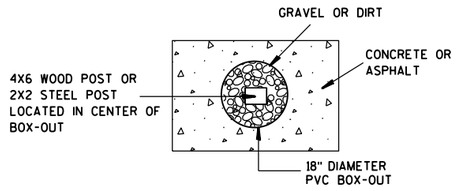
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

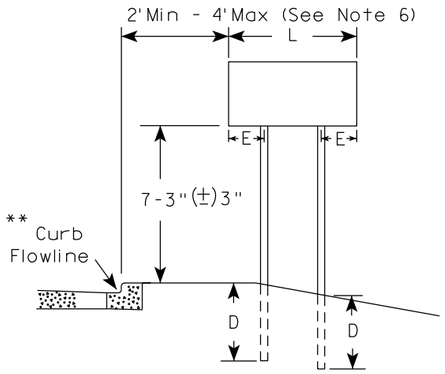
APPROVED Matthew R Rauch
for State Traffic Engineer

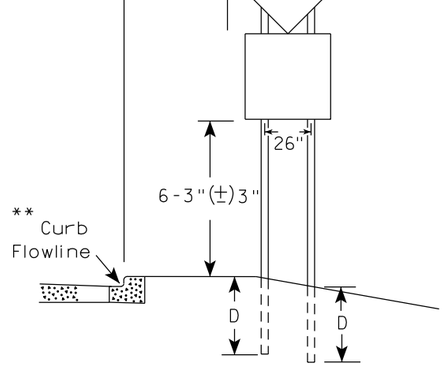
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

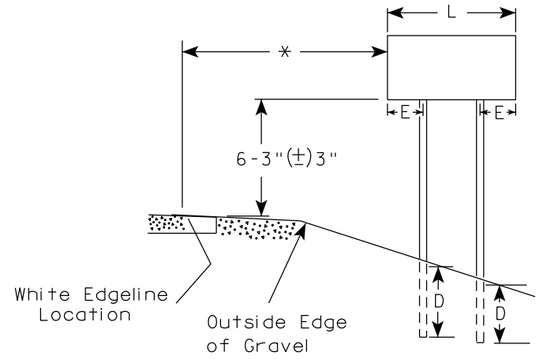
URBAN AREA

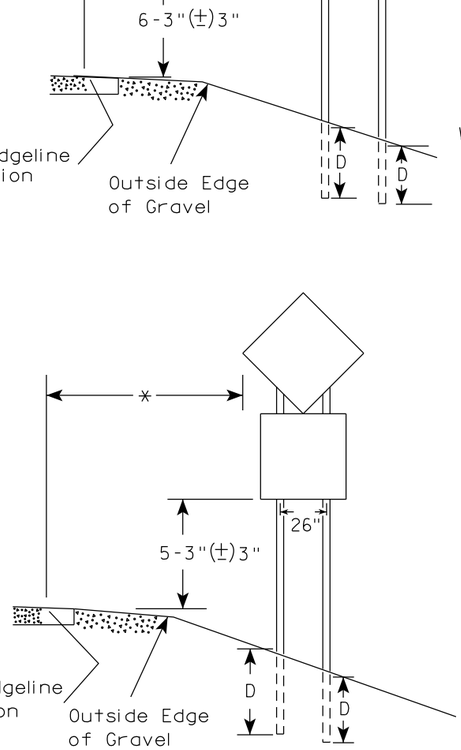




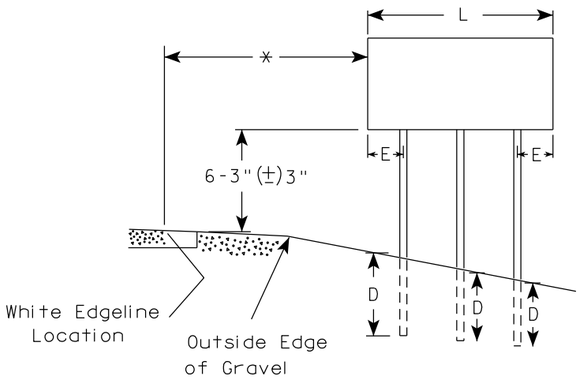
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

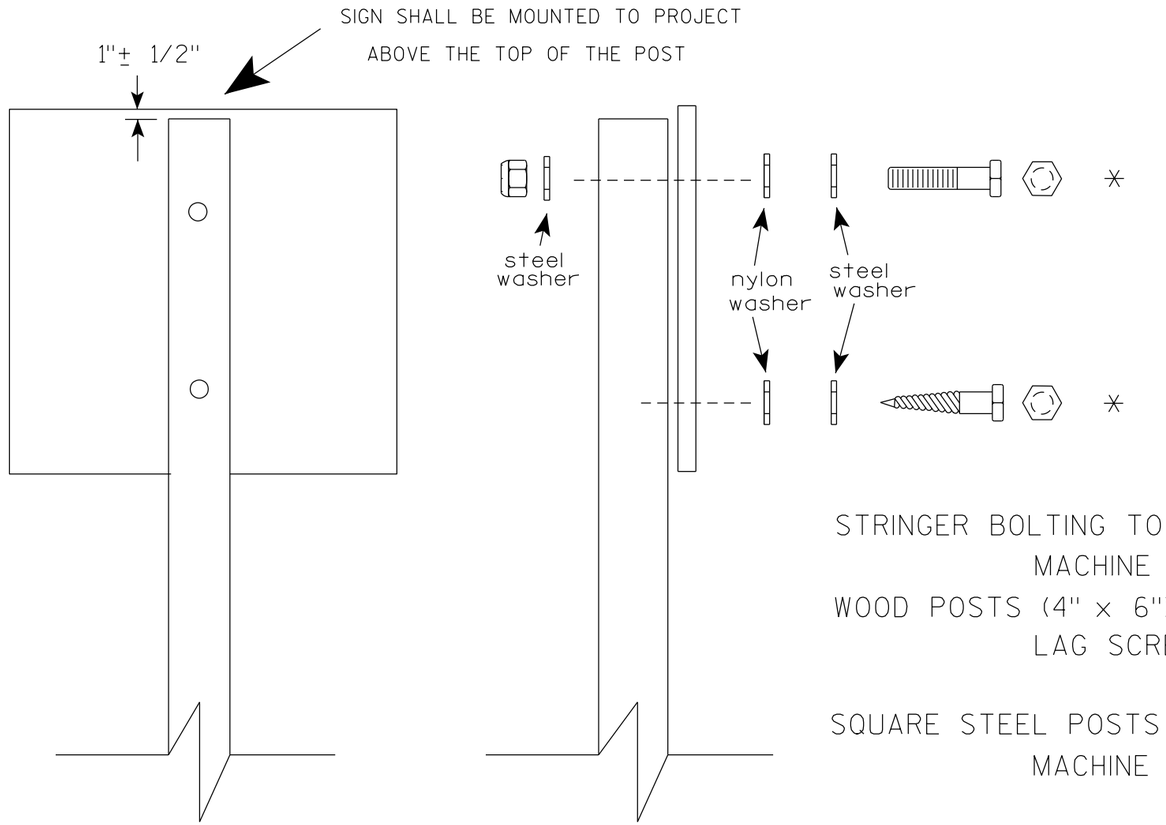
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 22	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

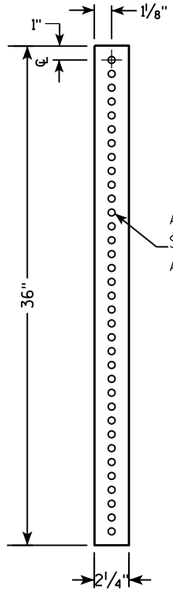
SHEET NO: 23 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

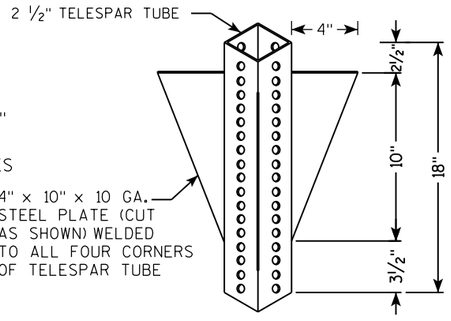
WISDOT/CADDS SHEET 42

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

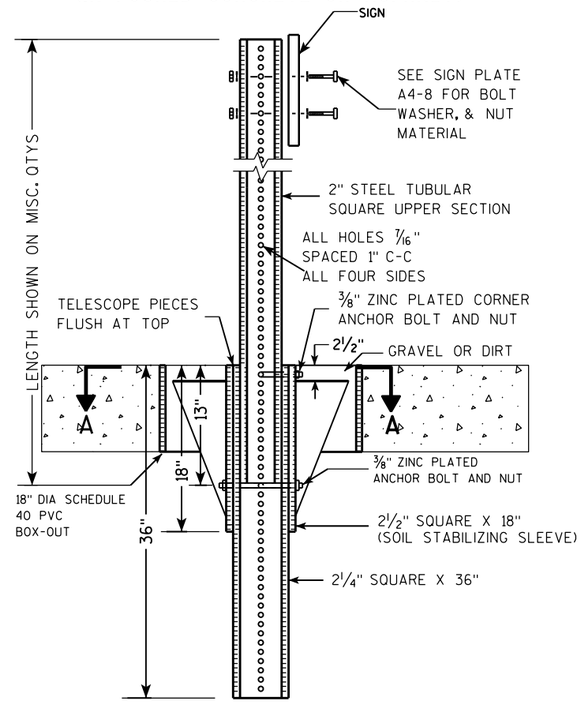
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



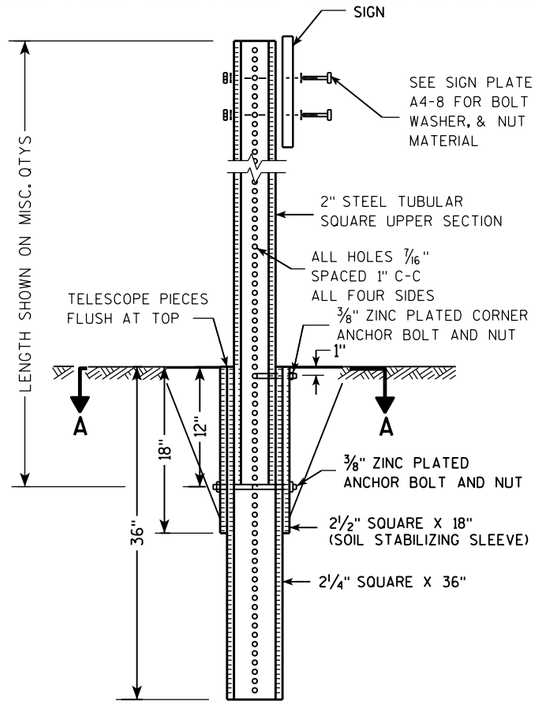
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

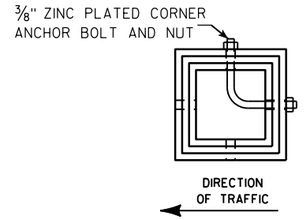


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

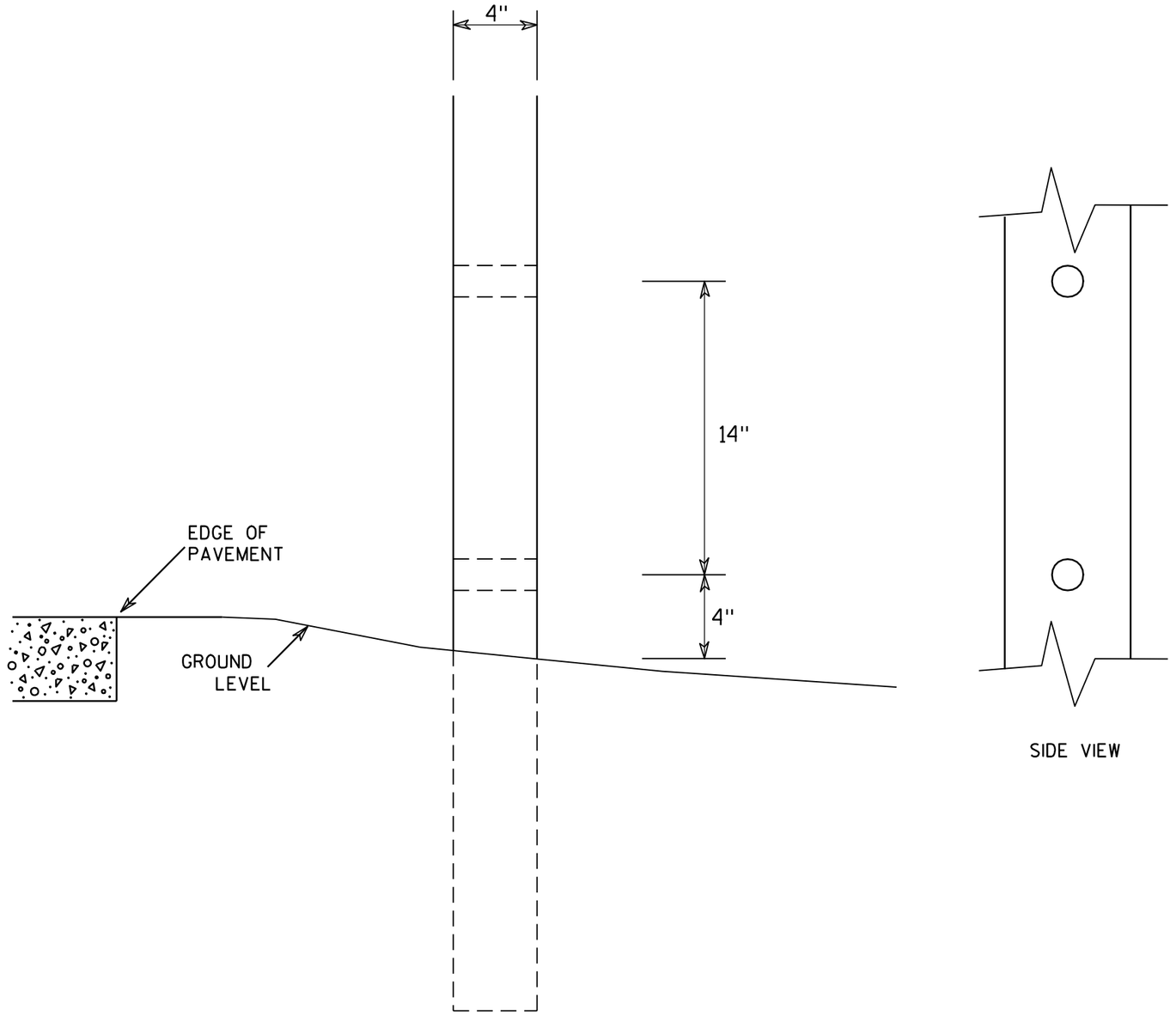
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

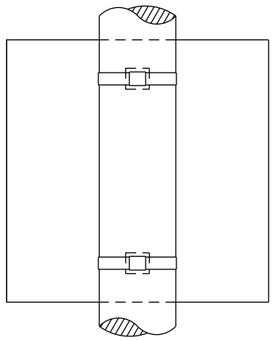
APPROVED Chester J Spang for State Traffic Engineer

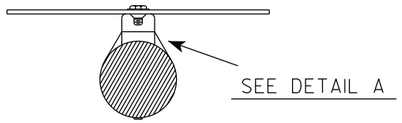
DATE 3/27/97 PLATE NO. A4-11.2

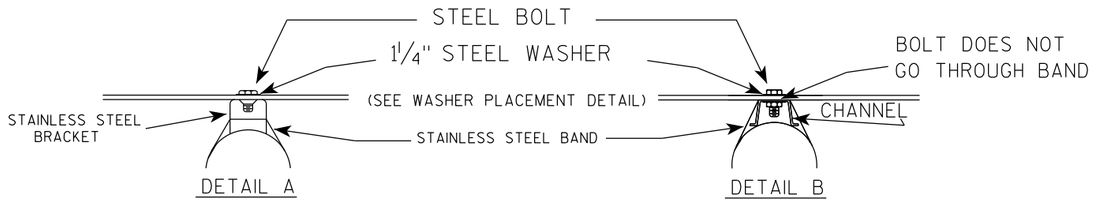
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 25	E

BANDING

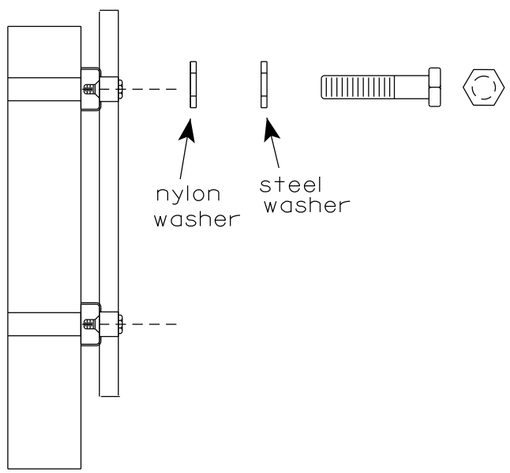
SINGLE SIGN







WASHER PLACEMENT

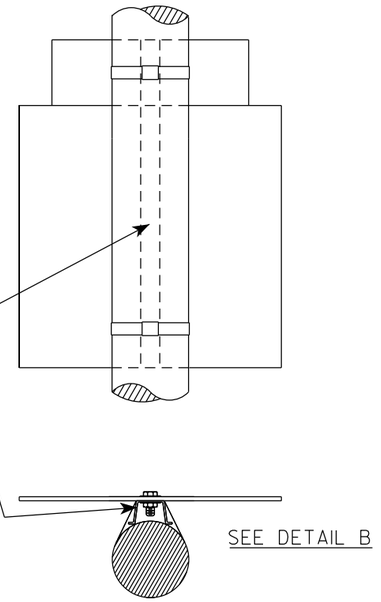


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

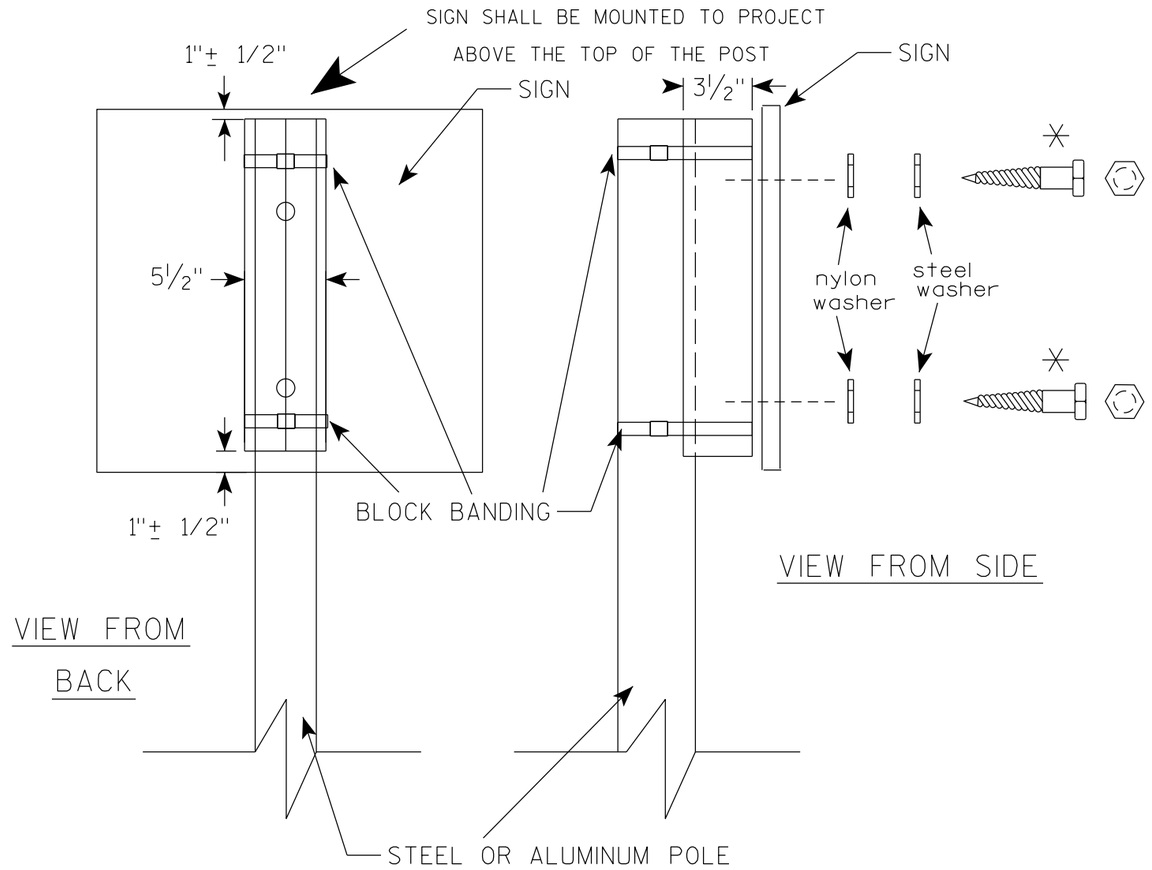
DATE 6/10/19 PLATE NO. A5-9.4

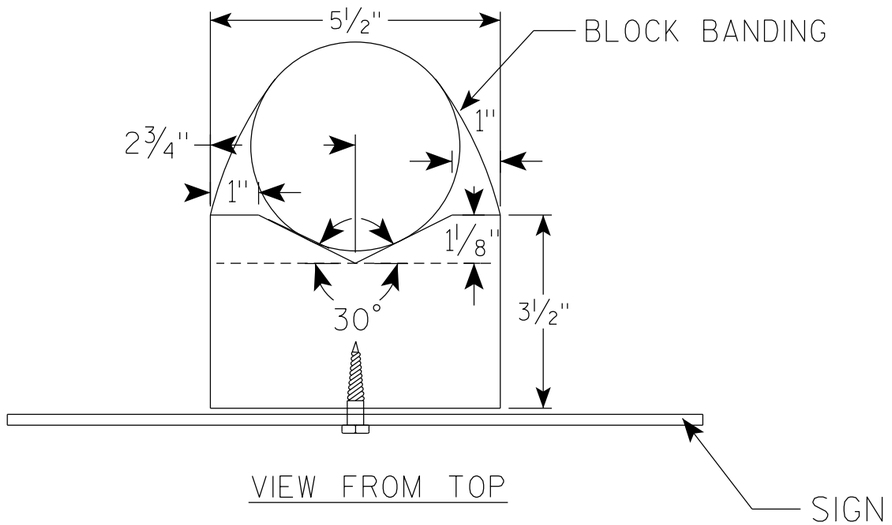
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 26	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

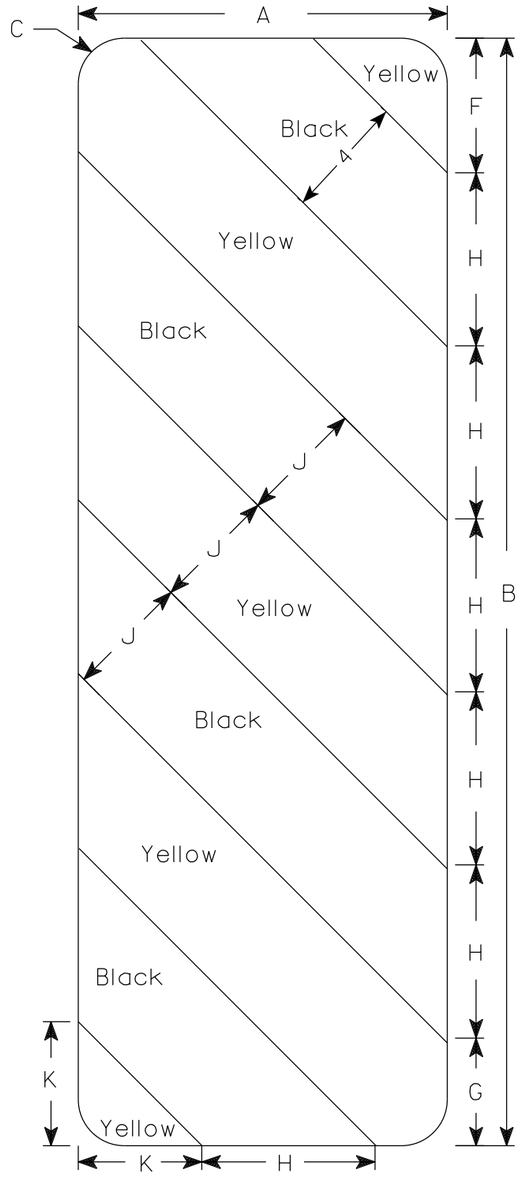
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

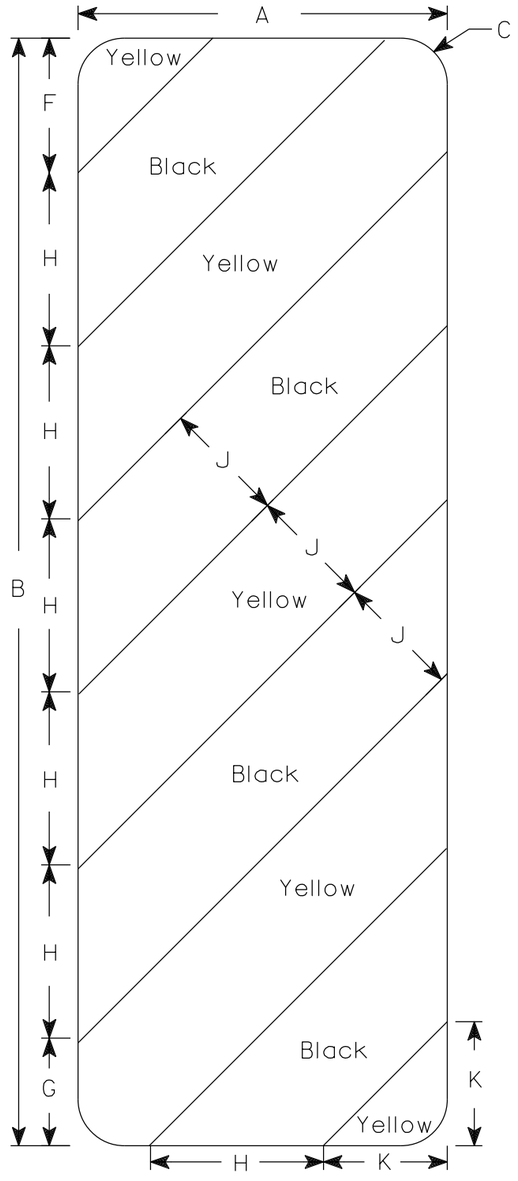
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 27 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54	1 1/2			6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

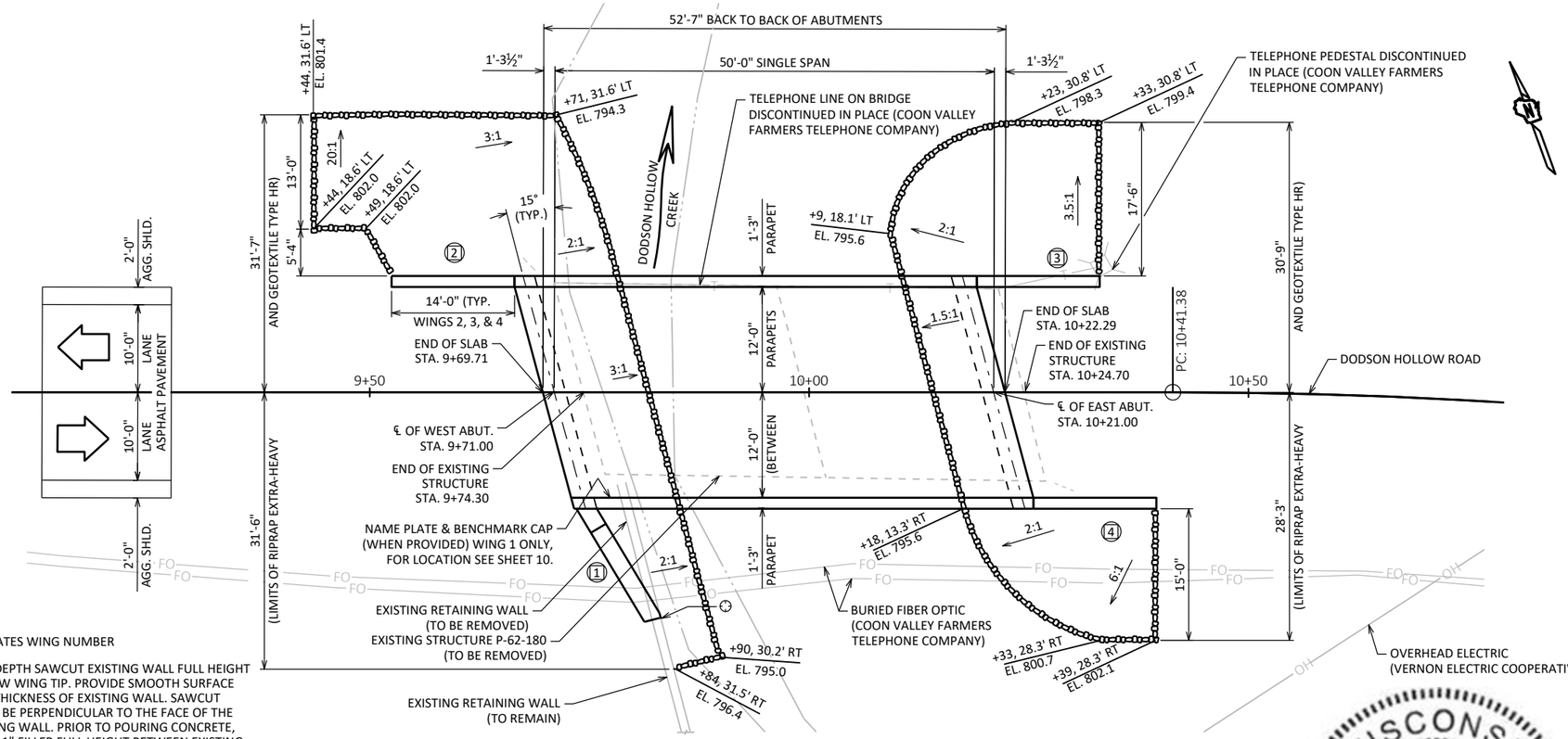
DATE 3/4/2024 PLATE NO. W5-52.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W552.dgn PLOT DATE : 4-MARCH 2024 11:57 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

5378-00-73



PLAN

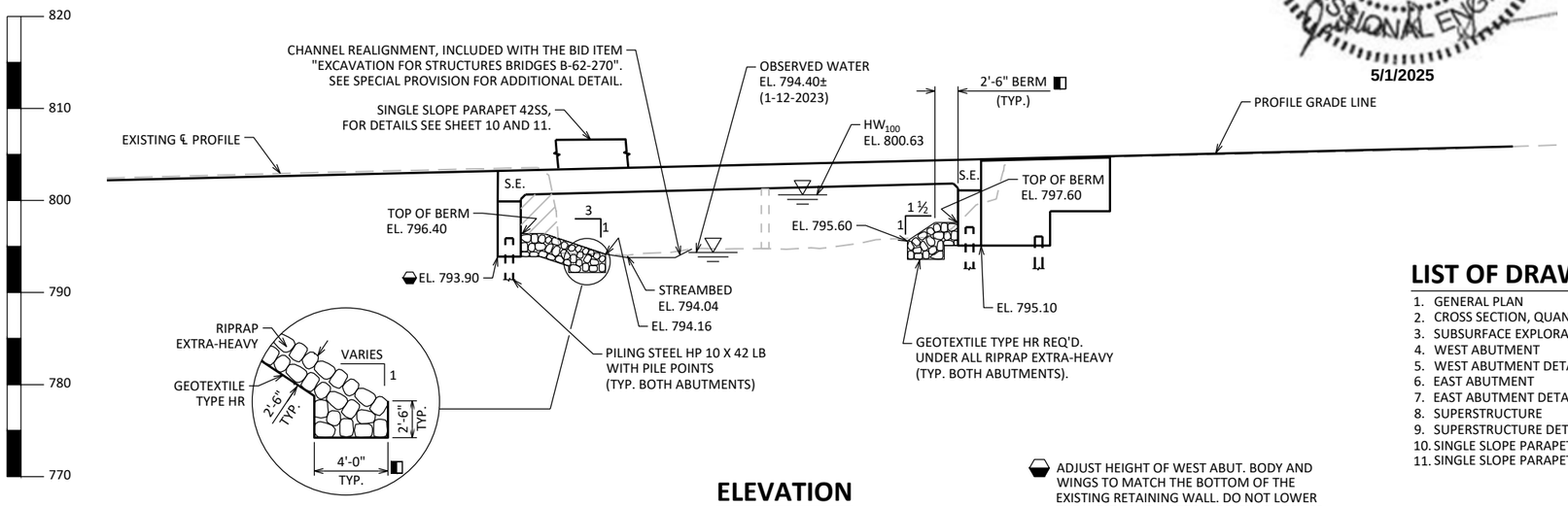
(SINGLE SPAN FLAT CONCRETE SLAB)

INDICATES WING NUMBER

FULL DEPTH SAWCUT EXISTING WALL FULL HEIGHT OF NEW WING TIP. PROVIDE SMOOTH SURFACE FULL THICKNESS OF EXISTING WALL. SAWCUT SHALL BE PERPENDICULAR TO THE FACE OF THE EXISTING WALL. PRIOR TO POURING CONCRETE, PLACE 1" FILLER FULL HEIGHT BETWEEN EXISTING WALL AND NEW WING. REMOVAL OF PORTIONS OF THE WALL WITHIN THE LIMITS OF THE BRIDGE IS INCLUDED WITH THE BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-180".

DIMENSION NORMAL TO ℄ OF SUBSTRUCTURE

REMOVAL OF THIS MATERIAL IS INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-62-270".



ELEVATION

(LOOKING NORTH)

ADJUST HEIGHT OF WEST ABUT. BODY AND WINGS TO MATCH THE BOTTOM OF THE EXISTING RETAINING WALL. DO NOT LOWER THE WEST ABUT. BOTTOM BELOW EL. 791.90 WITHOUT APPROVAL OF THE ENGINEER. REBAR HAS BEEN DETAILED ASSUMING A MAXIMUM VARIABLE WEST ABUT. HEIGHT OF 8'-0" AT WING 2.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING: RF = 1.09
OPERATING RATING: RF = 1.41
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
- SUPERSTRUCTURE — f'_c = 4,000 PSI
- ALL OTHER — f'_c = 3,500 PSI

HIGH-STRENGTH BAR STEEL REINFORCEMENT:
- GRADE 60 — f_y = 60,000 PSI

PILING STEEL:
- HP 10-INCH X 42 LB — f_y = 50,000 PSI

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 30'-0" LONG AT BOTH ABUTMENTS.
ESTIMATED 25'-0" LONG AT WING 2.
ESTIMATED 30'-0" LONG AT WINGS 3 & 4.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q_{100}= 1,900 C.F.S.
V_{100}= 10.4 F.P.S.
HW_{100}= EL. 800.63
WATERWAY AREA = 253 SQ. FT.
DRAINAGE AREA = 2.87 SQ. MI.
SCOUR CRITICAL CODE = 5

2-YEAR FREQUENCY:

Q_2= 210 C.F.S.
V_2= 5.5 F.P.S.
HW_2= EL. 796.95

ROADWAY OVERTOPPING

FREQUENCY = >100 YEARS

TRAFFIC VOLUME

DODSON HOLLOW ROAD
A.A.D.T. (2026) = 50
A.A.D.T. (2046) = 55
ROADWAY DESIGN SPEED = 30 MPH

WISCONSIN
JOSHUA R. SWENO
E-44384
WAUNAKEE
WI
PROFESSIONAL ENGINEER

5/1/2025

LIST OF DRAWINGS:

CONSULTANT DESIGN CONTACT:
JOSH SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
AARON BONK
(608) 261-0261

NO.	DATE	REVISION	BY

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1702 PANKRATZ STREET, MADISON WI 53704
(608) 242-7779 www.msa-ps.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED — CHIEF STRUCTURES DESIGN ENGINEER — DATE 06/03/25

STRUCTURE B-62-270

DODSON HOLLOW ROAD OVER DODSON HOLLOW CREEK

COUNTY	TOWN/~~CITY/VILLAGE~~
VERNON	COON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
ANC	JRS	EKK	JDH/ANC

GENERAL PLAN

SHEET 1 OF 11
29

SCALE = 16

8

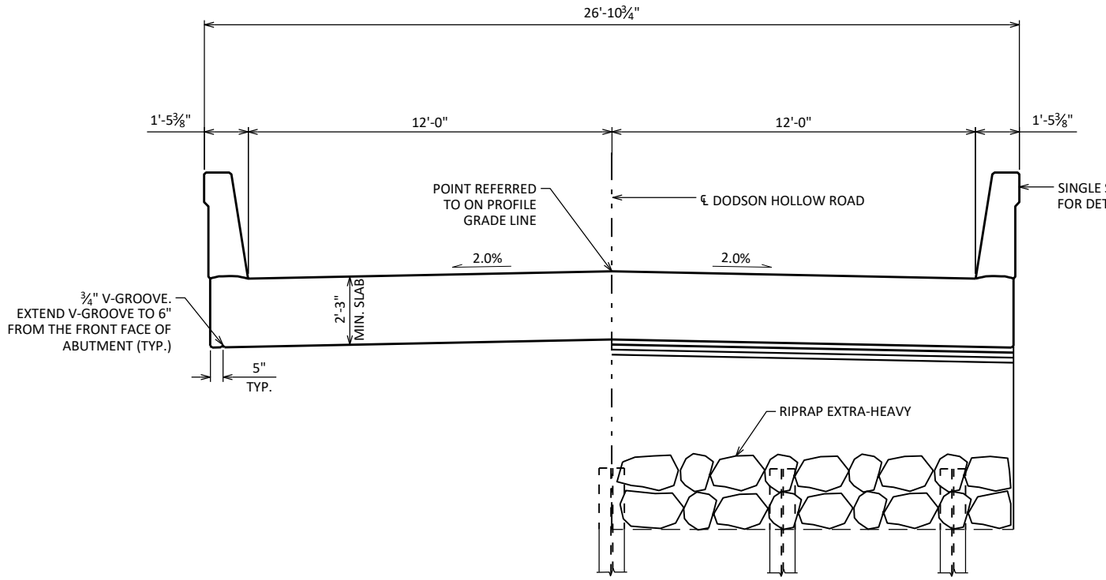
8

G:\07\07339\07339037\CADD\SheetsPlan\Structure\07339037_B-62-270_01_GeneralPlan.dwg

DATE: 5/1/2025 9:21 AM

STATE PROJECT NUMBER

5378-00-73



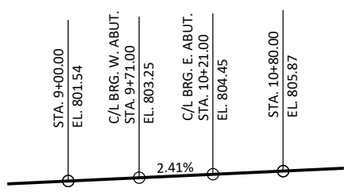
IN SPAN

AT ABUTMENTS

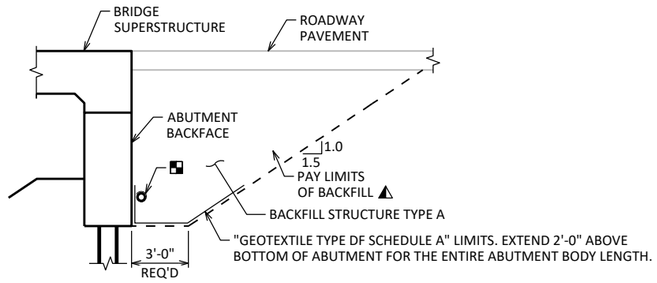
(WEST ABUT. SHOWN - SEE SHEET 6 FOR EAST ABUT. PILES)

CROSS SECTION THRU BRIDGE

(LOOKING WEST)



PROFILE GRADE LINE - DODSON HOLLOW ROAD

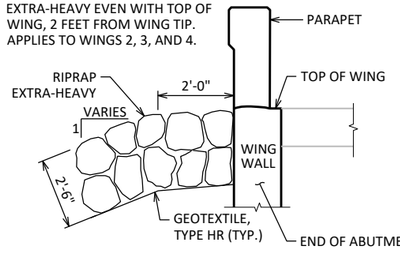


TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▪ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

NOTE: PLACE RIPRAP EXTRA-HEAVY EVEN WITH TOP OF WING, 2 FEET FROM WING TIP. APPLIES TO WINGS 2, 3, AND 4.

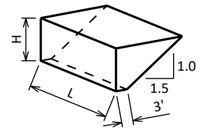


TYPICAL FILL SECTION AT WING TIPS

TOTAL ESTIMATED QUANTITIES

	ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
	203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-180	EACH	-	-	-	1
	206.1001.01	EXCAVATION FOR STRUCTURES BRIDGES B-62-270	EACH	-	-	-	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	255	153	-	408
*	502.0100	CONCRETE MASONRY BRIDGES	CY	42.9	32.2	141.2	216
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	-	155	175
	502.3210	PIGMENTED SURFACE SEALER	SY	-	-	73	73
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,135	1,765	-	3,900
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,935	1,815	24,575	28,325
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	8	-	19
	550.0500	PILE POINTS	EACH	6	6	-	12
	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	175	180	-	355
	606.0400	RIPRAP EXTRA-HEAVY	CY	105	92	-	197
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70	-	140
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	41	27	-	68
	645.0120	GEOTEXTILE TYPE HR	SY	158	143	-	301
		NON-BID ITEMS					
		PREFORMED FILLER	SIZE				½", ¾"& 1"

*QUANTITY ASSUMES A MAXIMUM VARIABLE WEST ABUT. HEIGHT OF 8'-0" AT WING 2.



EAST ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF}(EF)/27
V_{TON} = V_{CY}(2.0)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE STRUCTURE WILL REPLACE THE EXISTING STRUCTURE P-62-180, A 50.4 FT. LONG TWO SPAN STEEL DECK GIRDER BRIDGE WITH CLEAR ROADWAY WIDTH OF 19.9 FT. SUPPORTED ON TIMBER ABUTMENTS AND TIMBER PILING. THE BASE OF THE TIMBER PILING AT THE WEST ABUTMENT HAVE BEEN ENCASED IN CONCRETE. THE PIER INCLUDES TIMBER PILING AND A TIMBER CAP WITH A CONCRETE NOSE ADDED AT THE INLET END.

REMOVAL OF EXISTING RETAINING WALL AT WING 1 TO BE INCLUDED WITH "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-180".

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-270" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

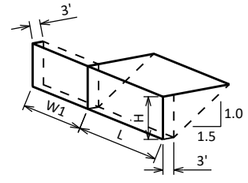
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, TO THE TOP OF WING 1, AND TO THE EXPOSED FRONT FACE OF WING 1.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE VERTICAL ENDS OF THE PARAPETS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP EXTRA-HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.



WEST ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT BODY (FT.)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
W1 = WING 1 LENGTH (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H)+(L)(0.5)(1.5H)(H)+(3.0')(W1)(H)
V_{CY} = V_{CF}(EF)/27
V_{TON} = V_{CY}(2.0)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY EKK | PLANS CK'D JDH/ANC

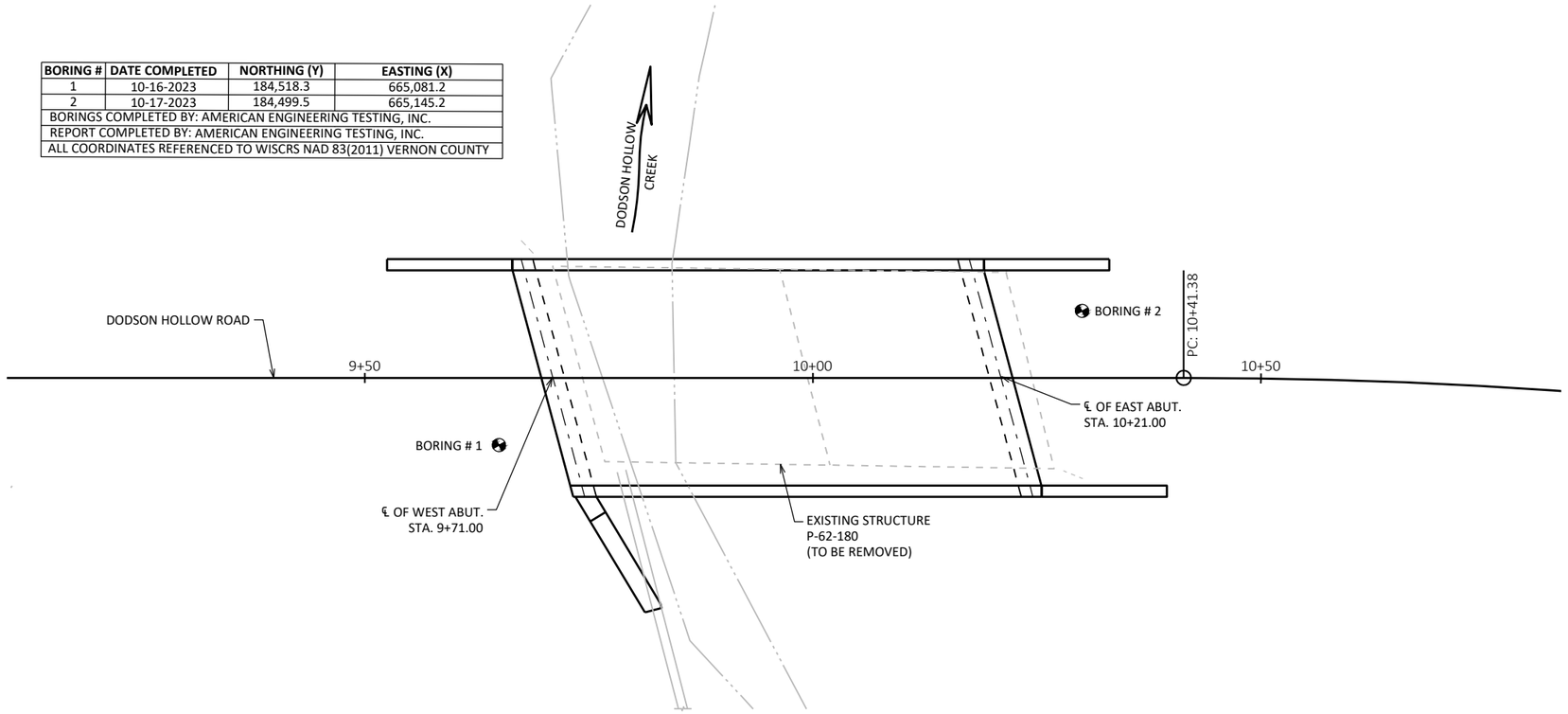
CROSS SECTION, QUANTITIES & NOTES

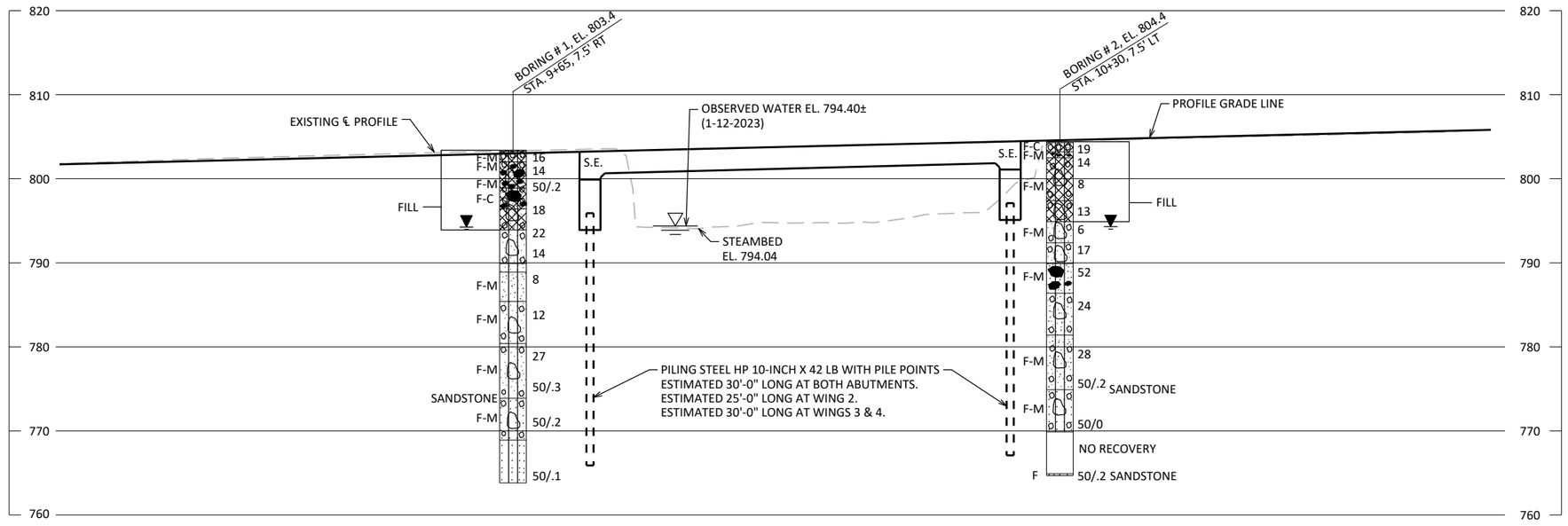
SHEET 2
30

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	10-16-2023	184,518.3	665,081.2
2	10-17-2023	184,499.5	665,145.2
BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
REPORT COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD 83(2011) VERNON COUNTY			





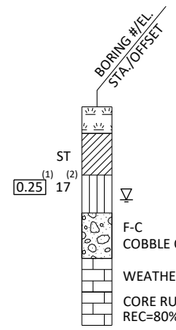
STATE PROJECT NUMBER

5378-00-73

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY EKK | PLANS CK'D JDH/ANC

SUBSURFACE EXPLORATION

SHEET 3
31

SCALE = 16

8

8

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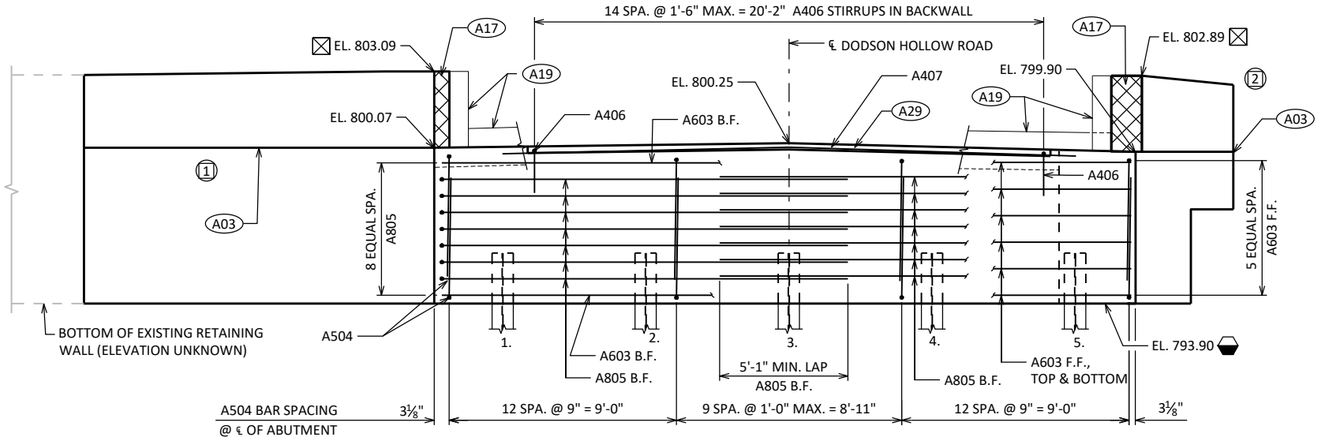
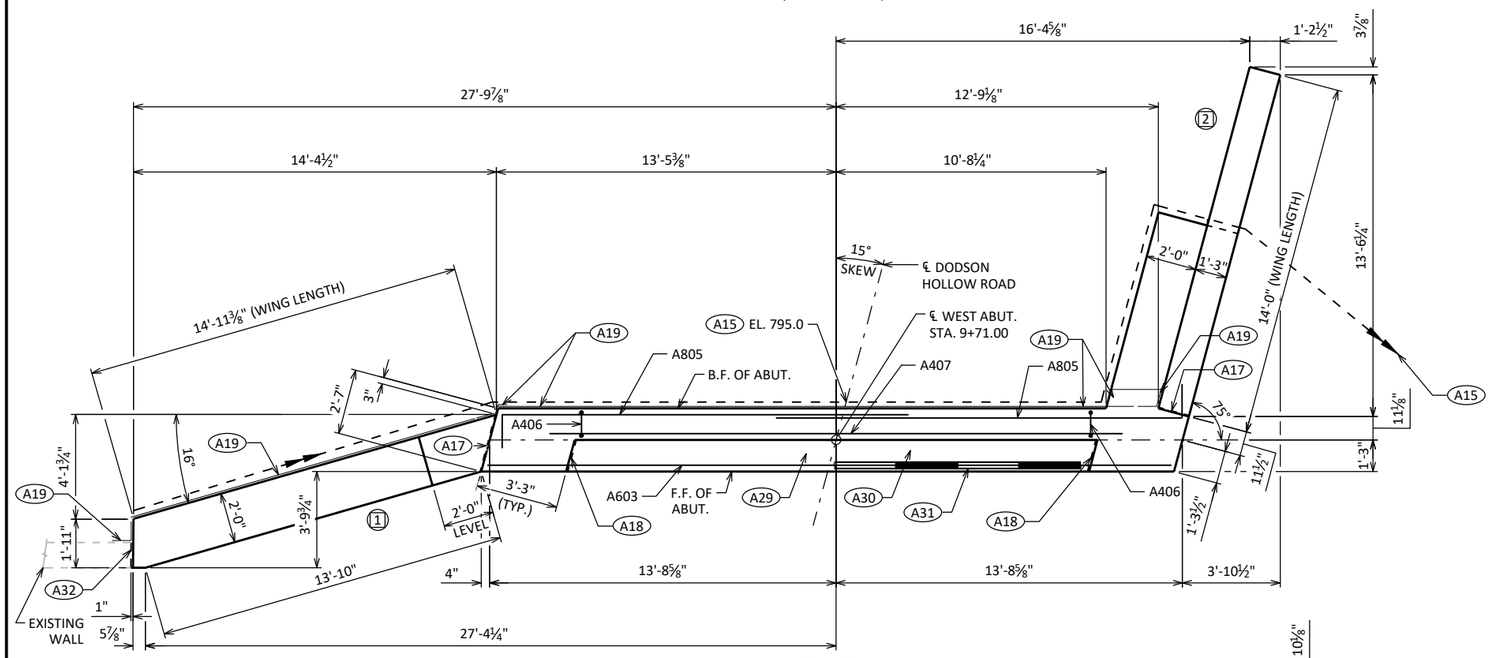
STATE PROJECT NUMBER

5378-00-73

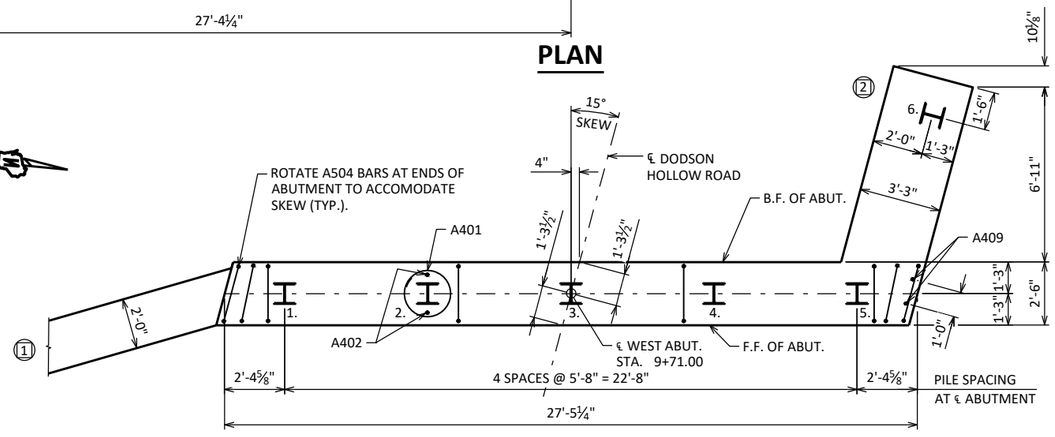


ELEVATION

(LOOKING WEST)



PLAN



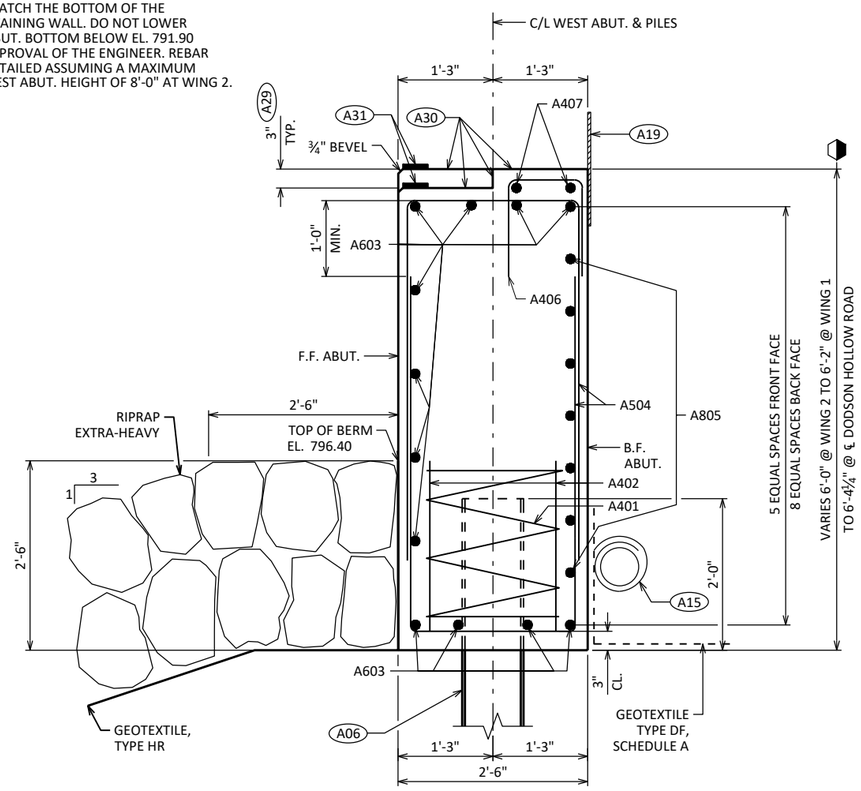
PILE PLAN

NOTES:

FOR WING DETAILS SEE SHEET 5.

⊠ ELEVATIONS GIVEN AT THE B.F. ABUTMENT

⬣ ADJUST HEIGHT OF WEST ABUT. BODY AND WINGS TO MATCH THE BOTTOM OF THE EXISTING RETAINING WALL. DO NOT LOWER THE WEST ABUT. BOTTOM BELOW EL. 791.90 WITHOUT APPROVAL OF THE ENGINEER. REBAR HAS BEEN DETAILED ASSUMING A MAXIMUM VARIABLE WEST ABUT. HEIGHT OF 8'-0" AT WING 2.



SECTION THRU BODY

LEGEND

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A06) SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE POINTS, ESTIMATED 30'-0" LONG AT THE WEST ABUTMENT BODY AND 25'-0" LONG AT WING 2 WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A18) ¾" CORK FILLER UP VERT. SEAT FACES THAT RUN PARALLEL WITH ROADWAY.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (1) INDICATES WING NUMBER
- F.F. - FRONT FACE
- B.F. - BACK FACE
- CL. - CLEAR
- (A29) SEMI-EXPANSION STEP, CONSTRUCT 3" DEEPER THAN ABUTMENT BACKWALL.
- (A30) STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCHES.
- (A31) 4" X ¾" FILLER, EXTEND FULL LENGTH OF ABUTMENT BETWEEN EDGES OF SLAB.
- (A32) 1" FILLER FULL HEIGHT BETWEEN EXISTING WALL AND WING 1. SEAL ALL EXPOSED SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY	RLR	PLANS CK'D	ANC

WEST ABUTMENT

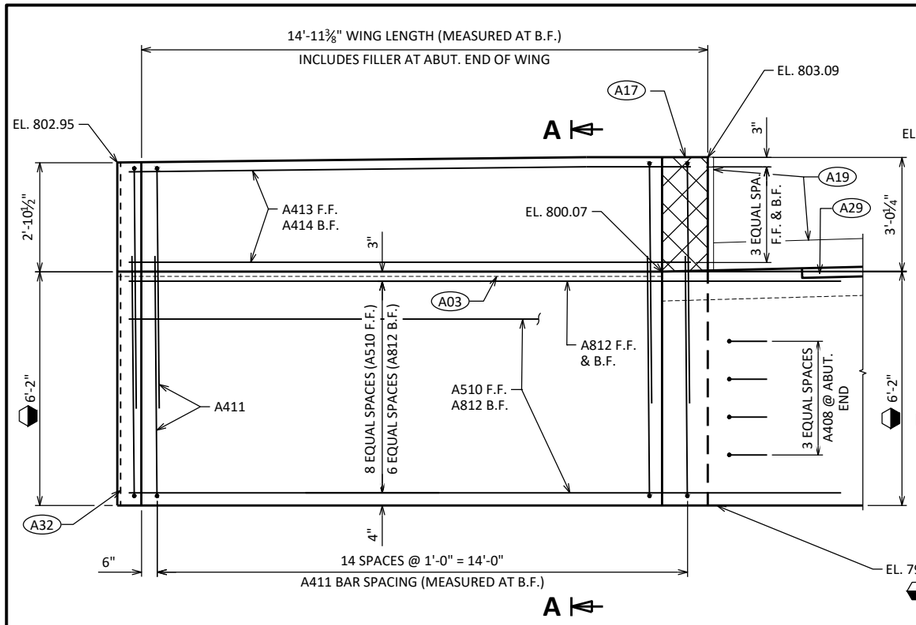
SHEET 4
32

8

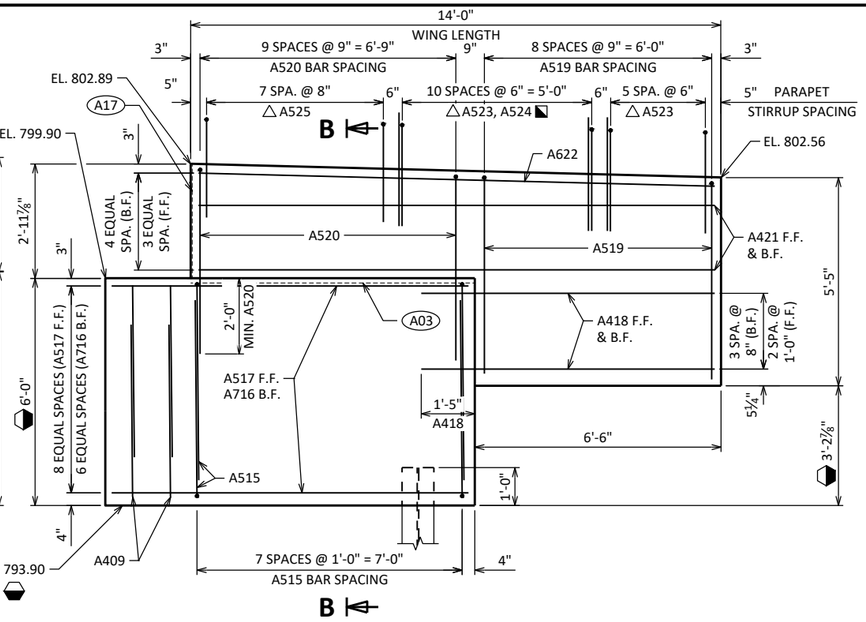
8

STATE PROJECT NUMBER

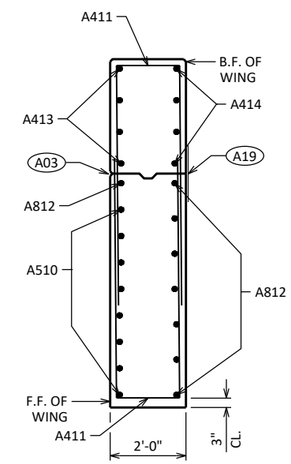
5378-00-73

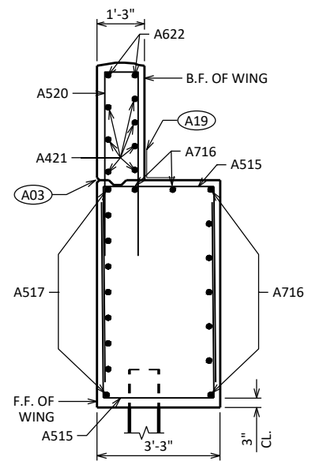


ELEVATION - WING 1



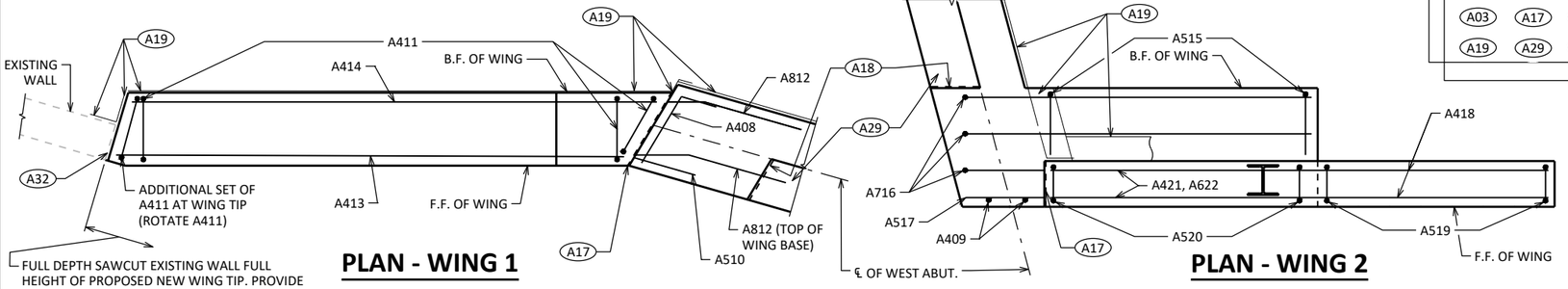
ELEVATION - WING 2





SECTION A-A THRU WING 1

SECTION B-B THRU WING 2

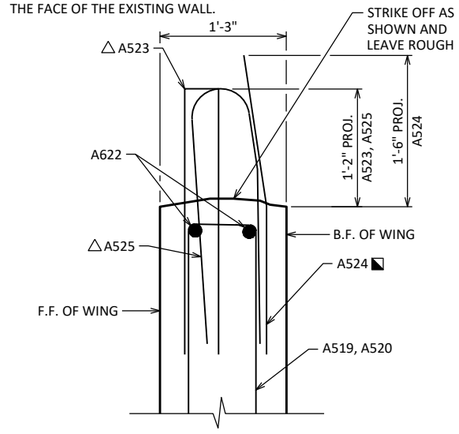


PLAN - WING 1

PLAN - WING 2

SEE SHEET 4 LEGEND FOR DESCRIPTION OF

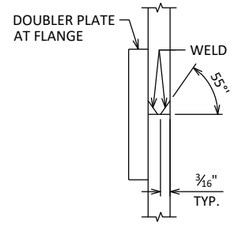
A03 A17 A18 A19 A29 A32



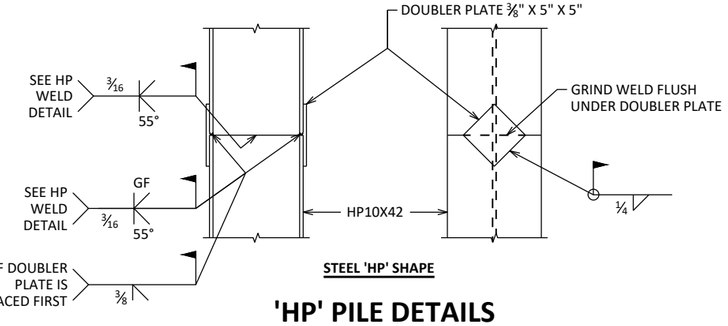
SECTION AT TOP OF WING 2

◪ A524 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE A524 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

△ A523 AND A525 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



HP WELD DETAIL



STEEL 'HP' SHAPE

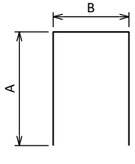
'HP' PILE DETAILS

A510

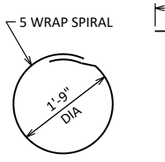
A408

A805, A716

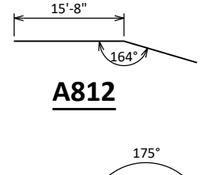
STD. 90° HOOK



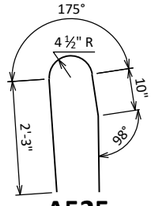
MARK	A	B
A504	4'-9"	2'-2"
A406	1'-4"	11"
A411	6'-3"	1'-8"
A515	5'-1"	2'-11"
A519	5'-1"	11"
A520	4'-10"	11"
A523	2'-8"	6"



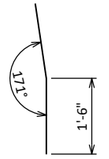
A401



A812



A525



A524

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
A401		5	28'-0"	X	ABUT. BODY PILES - 1 SPIRAL WRAP @ EACH PILE
A402		10	2'-3"		ABUT. BODY PILES - 2 @ EACH PILE - VERT.
A603		12	27'-1"		ABUT. BODY - F.F., TOP & BOTTOM - HORIZ.
A504		68	11'-5"	X	ABUT. BODY - STIRRUPS - VERT.
A805		14	17'-2"	X	ABUT. BODY - B.F. - HORIZ.
A406		15	3'-5"	X	ABUT. BODY - TOP - S.E. BACKWALL - STIRRUP - VERT.
A407		2	22'-9"		ABUT. BODY - TOP - S.E. BACKWALL - HORIZ.
A408		4	3'-0"	X	ABUT. BODY - END @ WING 1 - HORIZ.
A409		4	4'-7"		ABUT. BODY - END @ WING 2 - VERT.
A510	X	8	16'-0"	X	WING 1 - BASE - F.F. - HORIZ.
A411	X	32	14'-0"	X	WING 1 - STIRRUP - VERT.
A812	X	8	18'-6"	X	WING 1 - BASE - F.F. & B.F. - HORIZ.
A413	X	4	13'-11"		WING 1 - TOP - F.F. - HORIZ.
A414	X	4	14'-5"		WING 1 - TOP - B.F. - HORIZ.
A515	X	16	12'-10"	X	WING 2 - BASE - STIRRUP - VERT.
A716	X	9	10'-6"	X	WING 2 - BASE - B.F. & TOP - HORIZ.
A517	X	9	9'-5"		WING 2 - BASE - F.F. - HORIZ.
A418	X	7	7'-9"		WING 2 - TIP - F.F. & B.F. - HORIZ.
A519	X	9	10'-10"	X	WING 2 - TIP - STIRRUP - VERT.
A520	X	10	10'-4"	X	WING 2 - TOP - STIRRUP - VERT.
A421	X	7	13'-7"		WING 2 - TOP - F.F. & B.F. - HORIZ.
A622	X	2	13'-7"		WING 2 - TOP - F.F. & B.F. - HORIZ.
A523	X	17	5'-7"	X	WING 2 - TOP - PARAPET STIRRUP - VERT.
A524	X	12	3'-0"	X	WING 2 - TOP - PARAPET DOWEL - VERT.
A525	X	8	5'-10"	X	WING 2 - TOP - PARAPET STIRRUP - VERT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY RLR | PLANS CK'D ANC

WEST ABUTMENT DETAILS

SHEET 5
33

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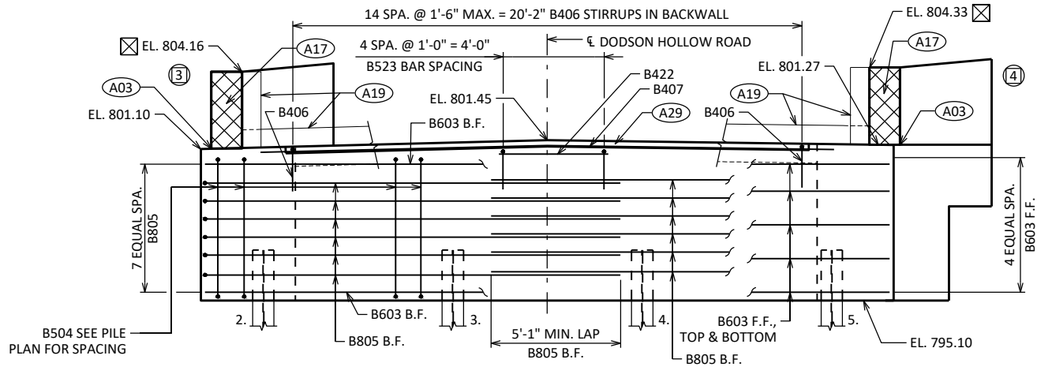
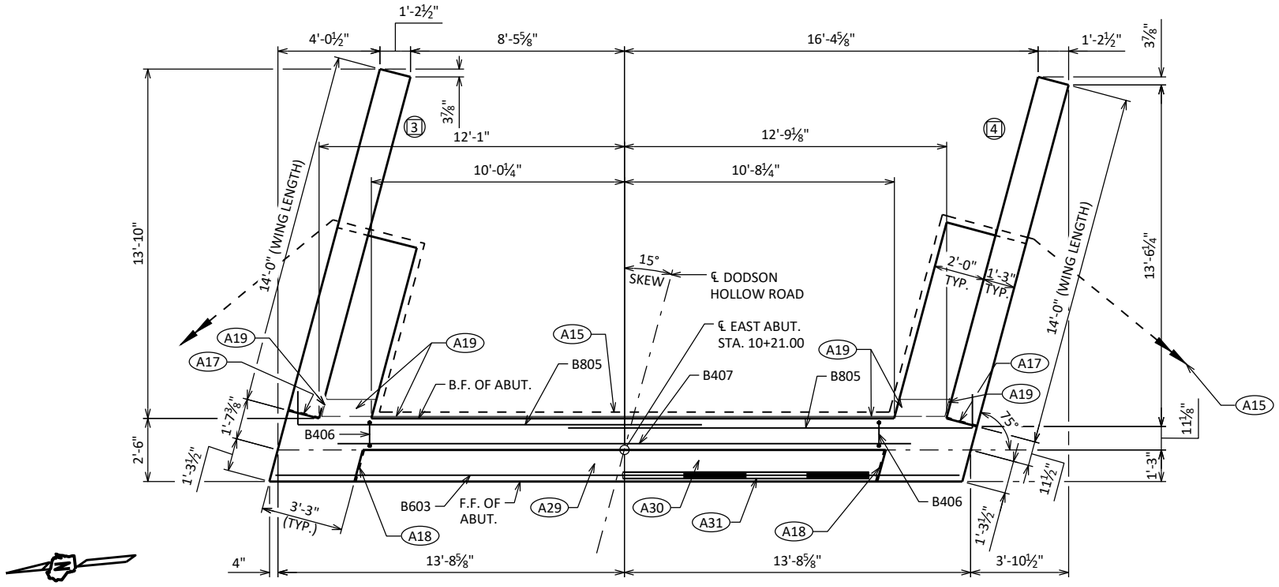
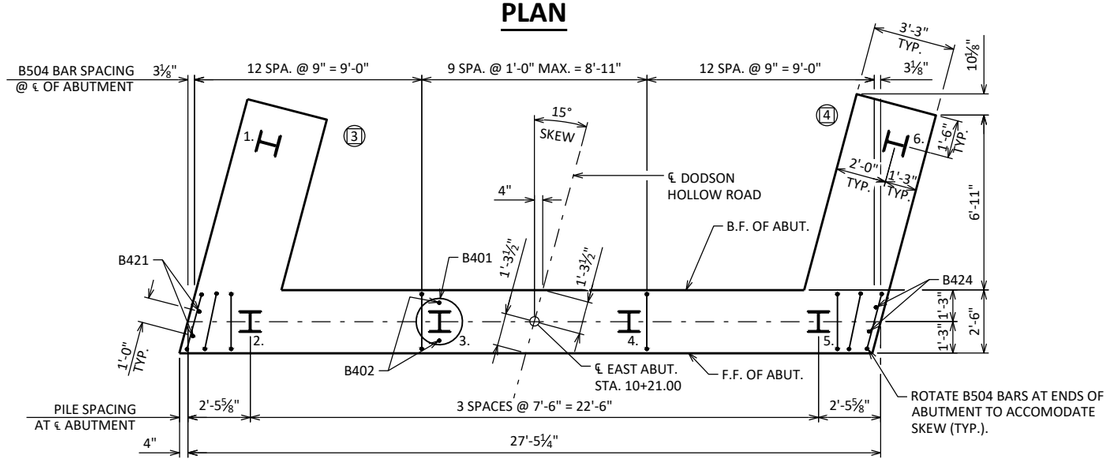
STATE PROJECT NUMBER
5378-00-73



ELEVATION
(LOOKING EAST)



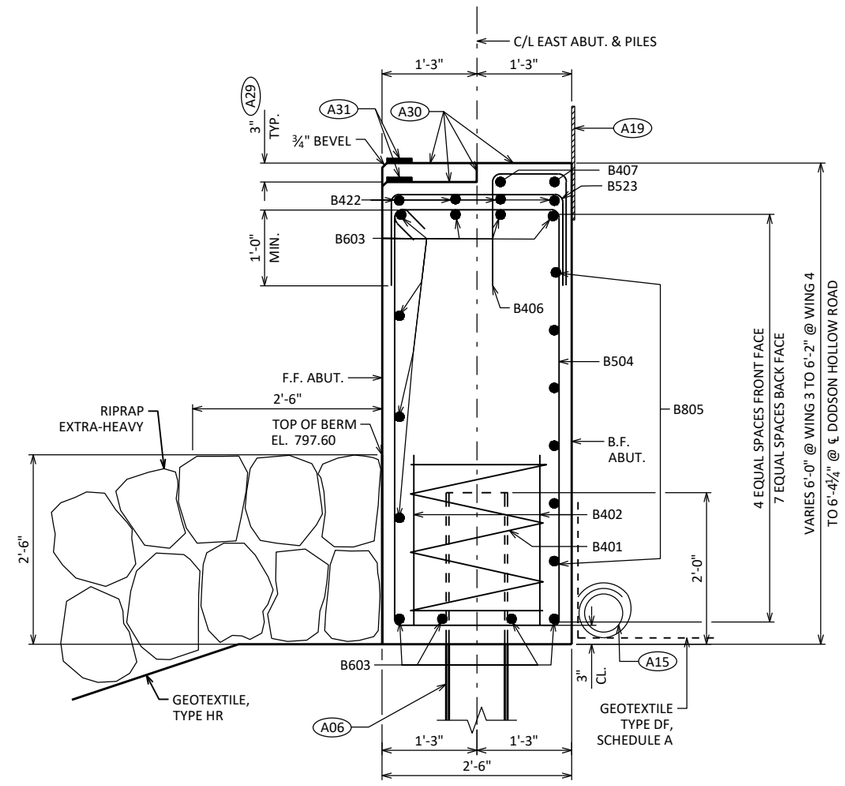
PLAN



PILE PLAN

NOTES:
FOR WING DETAILS SEE SHEET 7.

☒ ELEVATIONS GIVEN AT THE B.F. ABUTMENT



SECTION THRU BODY

LEGEND

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A06) SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE PONTS, ESTIMATED 30'-0" LONG AT THE EAST ABUTMENT BODY AND WINGS WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A18) ¾" CORK FILLER UP VERT. SEAT FACES THAT RUN PARALLEL WITH ROADWAY.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A29) SEMI-EXPANSION STEP, CONSTRUCT 3" DEEPER THAN ABUTMENT BACKWALL.
- (A30) STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCHES.
- (A31) 4" X ¾" FILLER, EXTEND FULL LENGTH OF ABUTMENT BETWEEN EDGES OF SLAB.

(3) (4) INDICATES WING NUMBER

F.F. - FRONT FACE

B.F. - BACK FACE

CL. - CLEAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY	EKK	PLANS CK'D	ANC

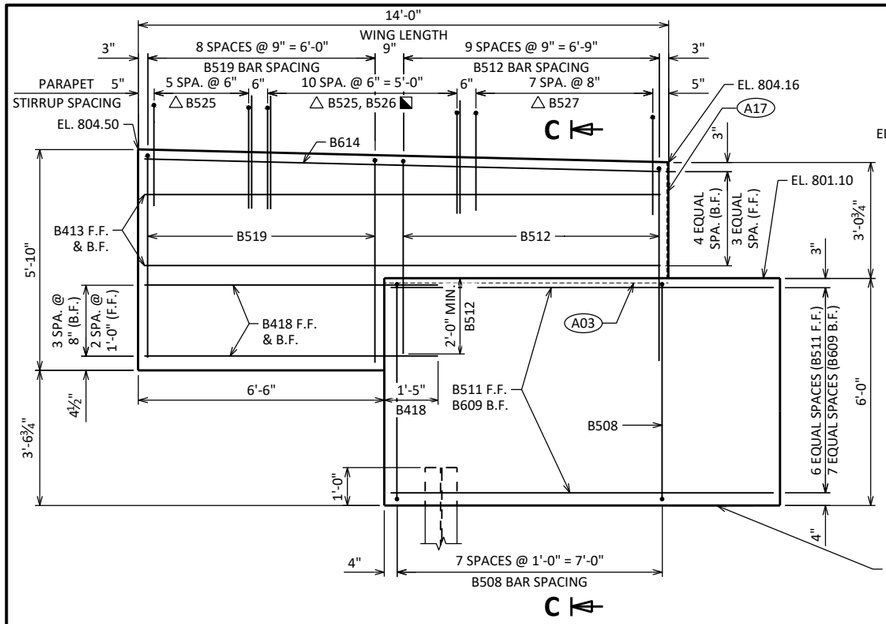
EAST ABUTMENT

SHEET 6
34

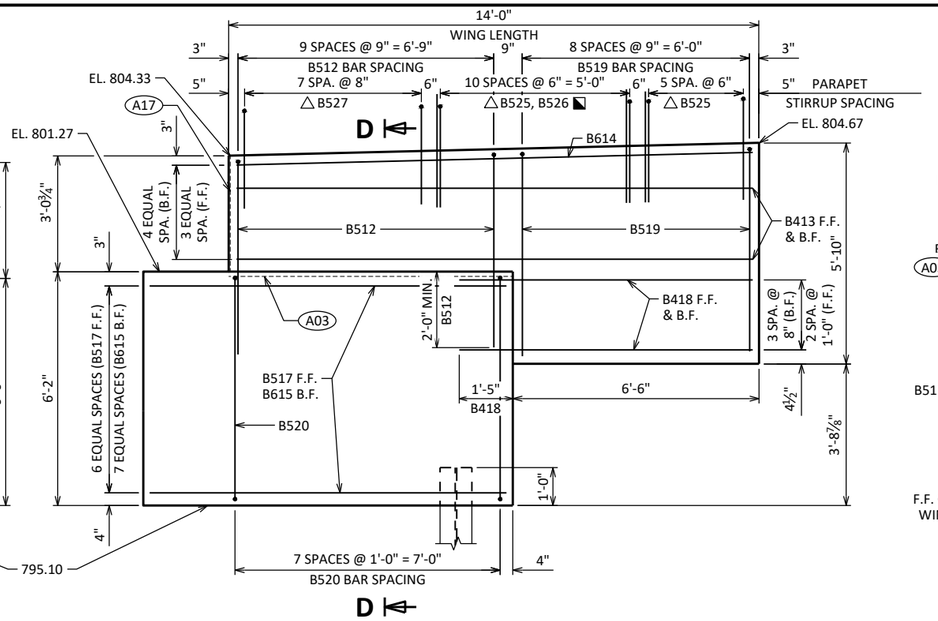
8

STATE PROJECT NUMBER

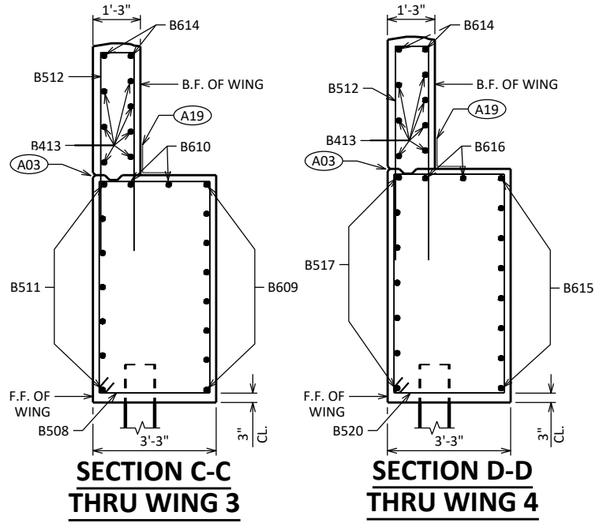
5378-00-73



ELEVATION - WING 3



ELEVATION - WING 4



SECTION C-C THRU WING 3

SECTION D-D THRU WING 4

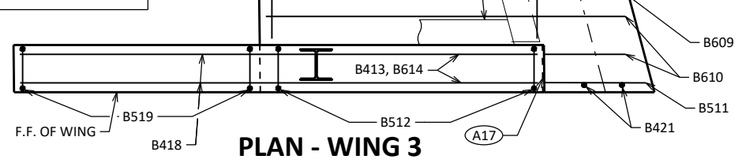
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

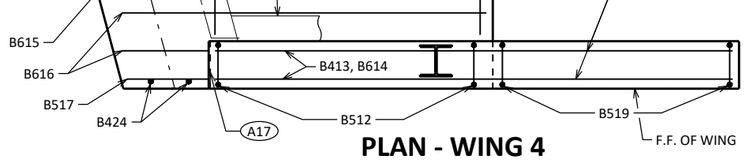
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
B401		4	28'-0"	X	ABUT. BODY PILES - 1 SPIRAL WRAP @ EACH PILE
B402		8	2'-3"		ABUT. BODY PILES - 2 @ EACH PILE - VERT.
B603		11	27'-1"		ABUT. BODY - F.F., TOP & BOTTOM - HORIZ.
B504		34	15'-8"	X	ABUT. BODY - STIRRUPS - VERT.
B805		12	17'-2"	X	ABUT. BODY - B.F. - HORIZ.
B406		15	4'-1"	X	ABUT. BODY - TOP - S.E BACKWALL STIRRUP - VERT.
B407		2	22'-9"		ABUT. BODY - TOP - S.E. BACKWALL - HORIZ.
B508	X	8	17'-8"	X	WING 3 - BASE - STIRRUP - VERT.
B609	X	8	9'-0"		WING 3 - BASE - B.F. - HORIZ.
B610	X	2	9'-6"		WING 3 - BASE - TOP - HORIZ.
B511	X	7	10'-0"		WING 3 - BASE - F.F. - HORIZ.
B512	X	20	10'-10"	X	WINGS 3 & 4 - TOP - STIRRUP - VERT.
B413	X	14	13'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B614	X	4	13'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B615	X	8	9'-11"		WING 4 - BASE - B.F. - HORIZ.
B616	X	2	9'-8"		WING 4 - BASE - TOP - HORIZ.
B517	X	7	9'-5"		WING 4 - BASE - F.F. - HORIZ.
B418	X	14	7'-9"		WINGS 3 & 4 - TIP - F.F. & B.F. - HORIZ.
B519	X	18	11'-4"	X	WINGS 3 & 4 - TIP - STIRRUP - VERT.
B520	X	8	18'-0"	X	WING 4 - BASE - STIRRUP - VERT.
B421		2	5'-8"		ABUT. BODY - END @ WING 3 - VERT.
B422		4	4'-4"		ABUT. BODY - TOP - HORIZ.
B523		5	4'-9"	X	ABUT. BODY - TOP - STIRRUP- VERT.
B424		2	5'-10"		ABUT. BODY - END @ WING 4 - VERT.
B525	X	34	5'-7"	X	WINGS 3 & 4 - TOP - PARAPET STIRRUP - VERT.
B526	X	24	3'-0"	X	WINGS 3 & 4 - TOP - PARAPET DOWEL - VERT.
B527	X	16	5'-10"	X	WINGS 3 & 4 - TOP - PARAPET STIRRUP - VERT.

SEE SHEET 6 LEGEND FOR DESCRIPTION

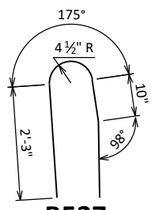
A03 A17 A18 A19 A29



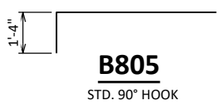
PLAN - WING 3



PLAN - WING 4

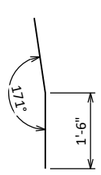


B527

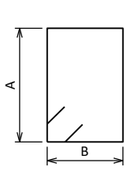


B805

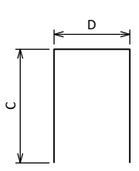
STD. 90° HOOK



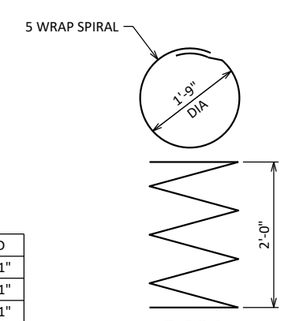
B526



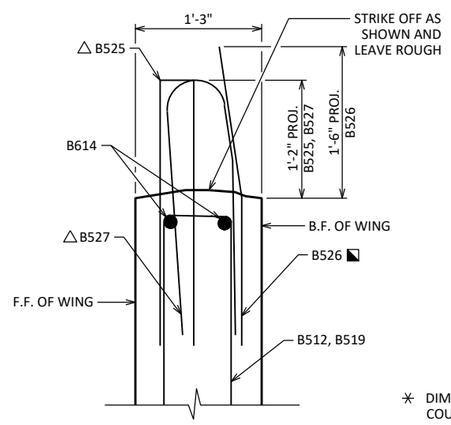
MARK	A	B
B504	5'-4"	2'-2"
B508	5'-7"	2'-11"
B520	5'-9"	2'-11"



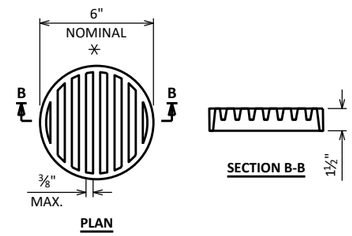
MARK	C	D
B406	1'-8"	11"
B512	5'-1"	11"
B519	5'-4"	11"
B523	1'-5"	2'-2"
B525	2'-8"	6"



B401



SECTION AT TOP OF WING



PLAN

SECTION B-B

RODENT SHIELD DETAIL

⚹ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT 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.

◪ B526 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE B526 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

△ B525 AND B527 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY EKK | PLANS CK'D ANC

EAST ABUTMENT DETAILS

SHEET 7
35

8

8

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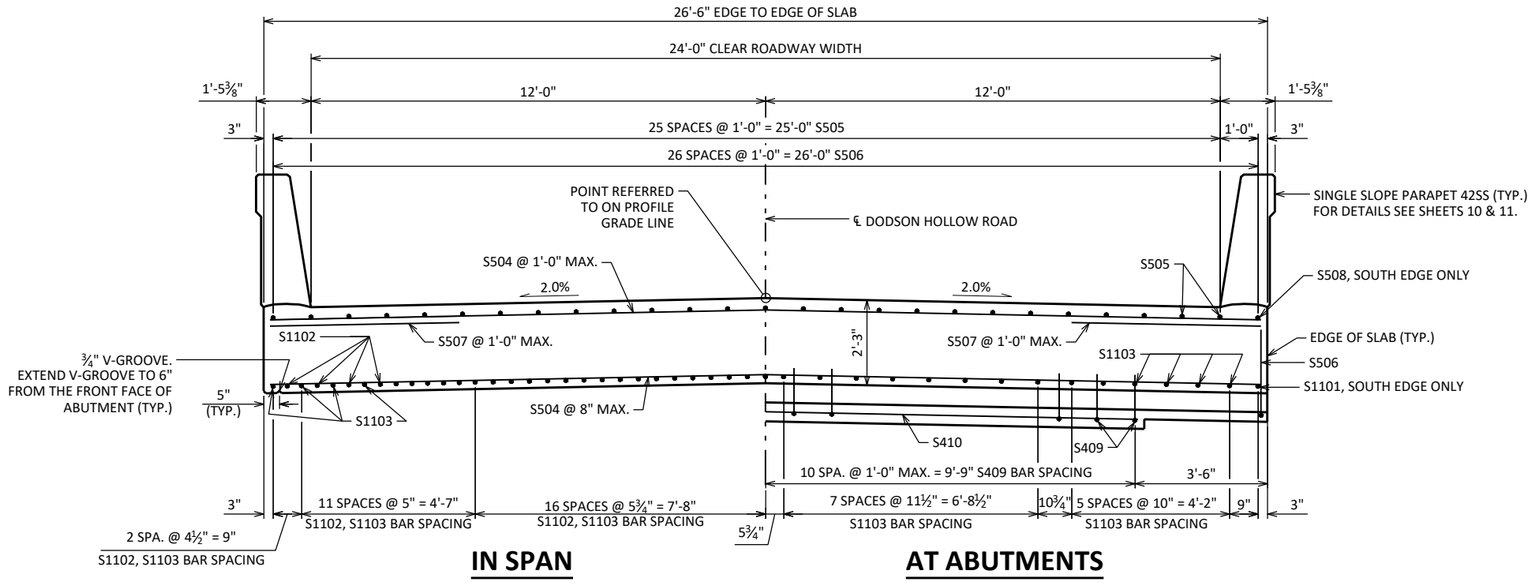
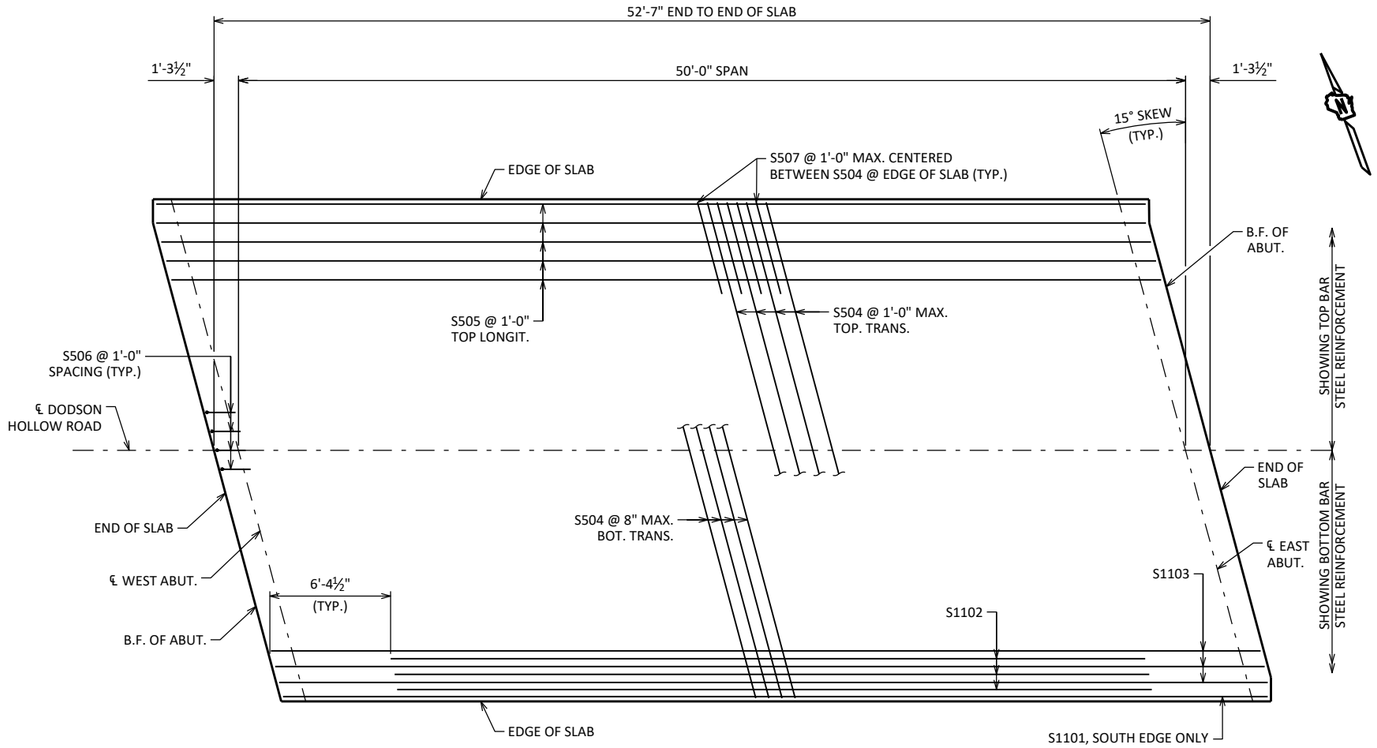
STATE PROJECT NUMBER
5378-00-73

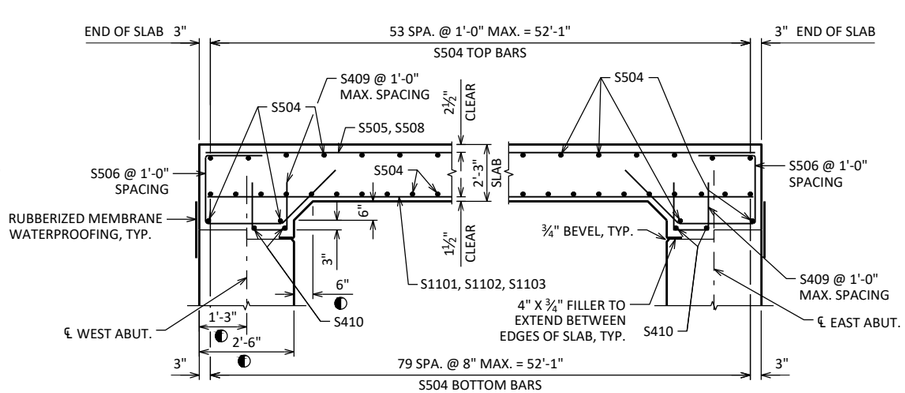


CROSS SECTION THRU BRIDGE

(LOOKING EAST)



PLAN



LONGITUDINAL SECTION

DIMENSIONS ARE GIVEN PARALLEL TO ℄ ROADWAY UNLESS OTHERWISE NOTED.

◐ MEASURED NORMAL TO THE ℄ OF ABUTMENT. DIMENSIONS ARE TYPICAL FOR BOTH ABUTMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

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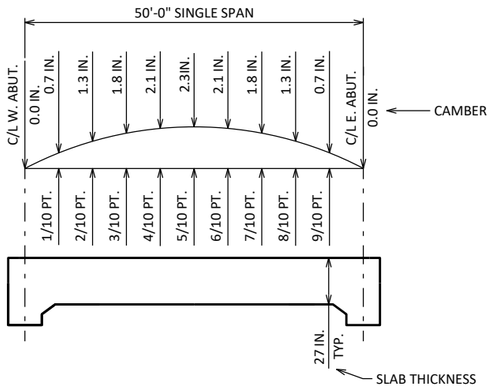
SUPERSTRUCTURE

SHEET 8
36

8

8



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

	TOP OF SLAB ELEVATION AT FINAL GRADE
MINUS	SLAB THICKNESS
PLUS	CAMBER
PLUS	FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS	TOP OF SLAB FALSEWORK ELEVATION

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

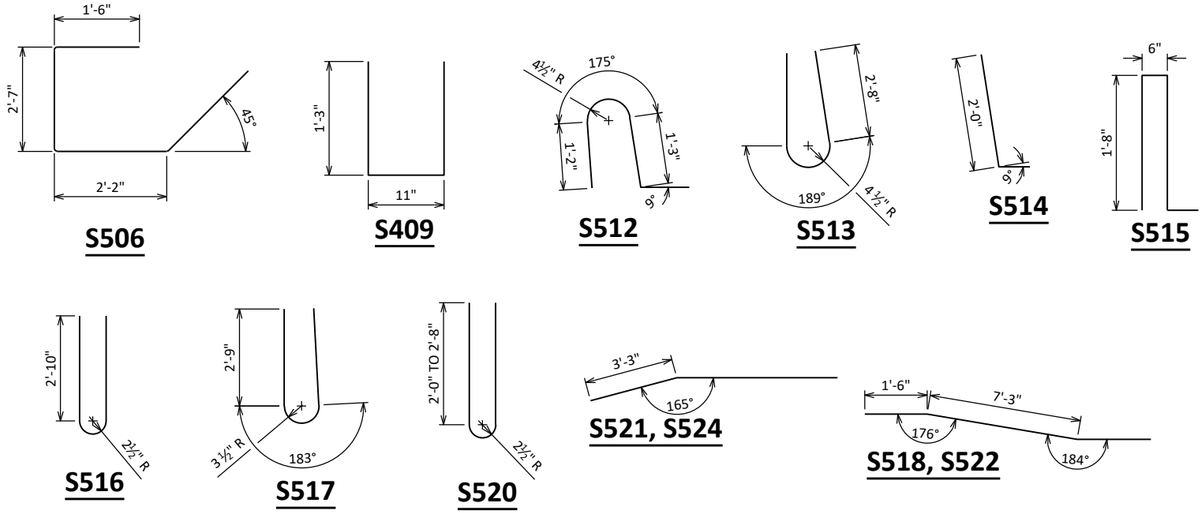
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S1101	X	1	51'-11"			SLAB - BOTTOM @ ABUTS. & IN SPAN - LONGIT. - S. EDGE
S1102	X	29	39'-10"			SLAB - BOTTOM - IN SPAN - LONGIT.
S1103	X	29	52'-2"			SLAB - BOTTOM - @ ABUTS. & IN SPAN - LONGIT.
S504	X	138	27'-1"			SLAB - TOP & BOTTOM - TRANS.
S505	X	26	52'-2"			SLAB - TOP @ ABUTS. & IN SPAN - LONGIT.
S506	X	54	8'-6"	X		DIAPHRAGM @ ABUTS. - LONGIT.
S507	X	106	5'-0"			SLAB - TOP @ EDGES - TRANS.
S508	X	1	51'-11"			SLAB - TOP - @ ABUTS. & IN SPAN - LONGIT. - S. EDGE
S409	X	21	3'-3"	X		SLAB - S.E. POCKET STIRRUP - VERT.
S410	X	4	19'-10"			SLAB - S.E. POCKET - TRANS.
S511	X	24	27'-0"			PARAPET - ON SLAB - LONGIT
S512	X	145	4'-5"	X		SLAB - TOP - PARAPET STIRRUP - VERT.
S513	X	169	6'-8"	X		PARAPET - STIRRUP - VERT.
S514	X	12	2'-9"	X		SLAB - TOP - PARAPET - VERT.
S515	X	17	4'-4"	X		SLAB - TOP - PARAPET STIRRUP - VERT.
S516	X	20	6'-5"	X		PARAPET - STIRRUP - VERT.
S517	X	24	6'-6"	X		PARAPET - STIRRUP - VERT.
S518	X	1	26'-8"	X		PARAPET - ON SLAB - BOTTOM - LONGIT.
S519	X	5	26'-8"			PARAPET - ON SLAB - LONGIT.
S520	X	24	5'-5"	X	⚠	PARAPET - STIRRUP - VERT.
S521	X	2	26'-8"	X		PARAPET - ON SLAB - TOP - LONGIT.
S522	X	3	13'-7"	X		PARAPET - ON WING - BOTTOM - LONGIT.
S523	X	15	13'-7"			PARAPET - ON WING - LONGIT.
S524	X	6	13'-7"	X		PARAPET - ON WING - TOP - LONGIT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTH
S520	4 SERIES OF 6	4'-9" TO 6'-1"



NOTES

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS-BUILT PLANS.

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TOP OF SLAB ELEVATIONS

LOCATION	C/L BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. E. ABUT.
NORTH EDGE OF SLAB	802.93	803.05	803.17	803.29	803.41	803.53	803.65	803.77	803.89	804.01	804.13
C/L DODSON HOLLOW ROAD	803.25	803.37	803.49	803.61	803.73	803.85	803.97	804.09	804.21	804.33	804.45
SOUTH EDGE OF SLAB	803.09	803.21	803.33	803.45	803.57	803.69	803.81	803.93	804.05	804.17	804.29

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	W. ABUTMENT	5/10 PT.	E. ABUTMENT
N. EDGE OF SLAB			
C/L DODSON HOLLOW ROAD			
S. EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF SLAB AND C/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

STATE PROJECT NUMBER

5378-00-73

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY EKK | PLANS CK'D ANC

SUPERSTRUCTURE DETAILS

SHEET 9
37

SCALE = 2.25

8

8

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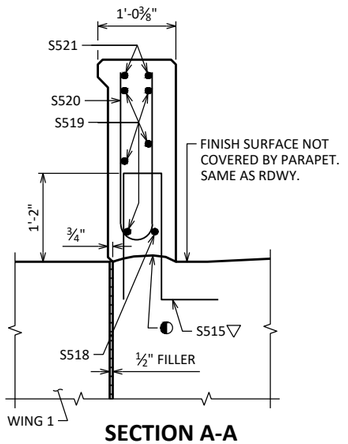
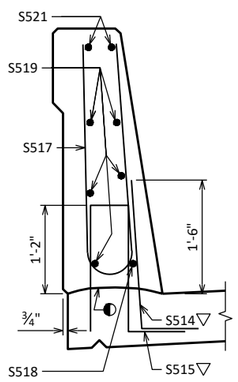
STATE PROJECT NUMBER

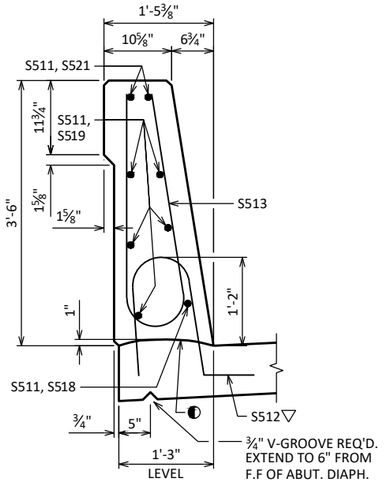
5378-00-73



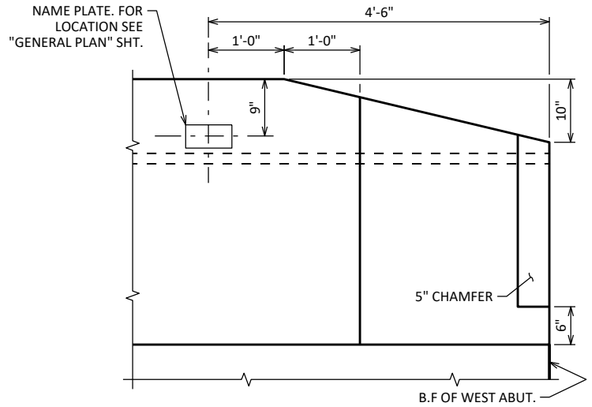
SECTION A-A



SECTION B-B

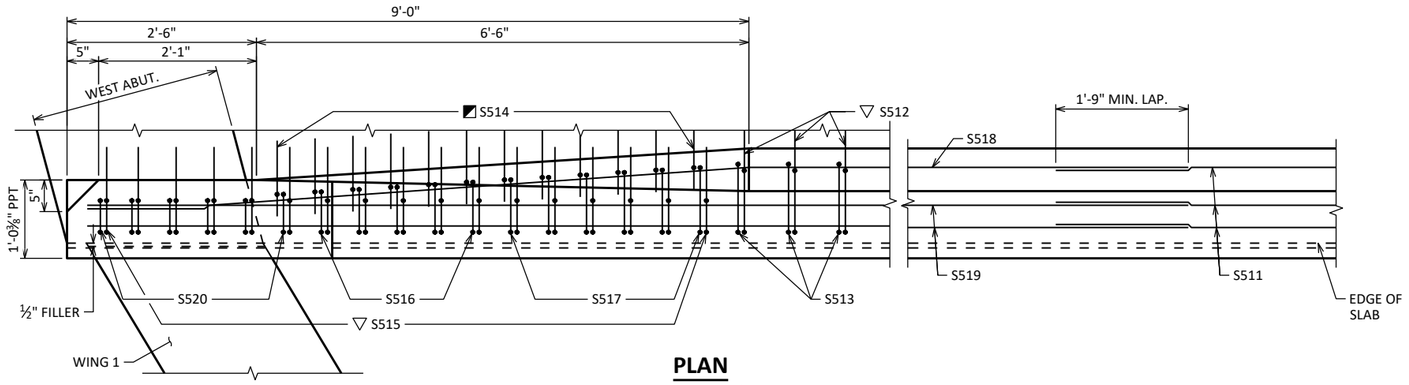


SECTION C-C



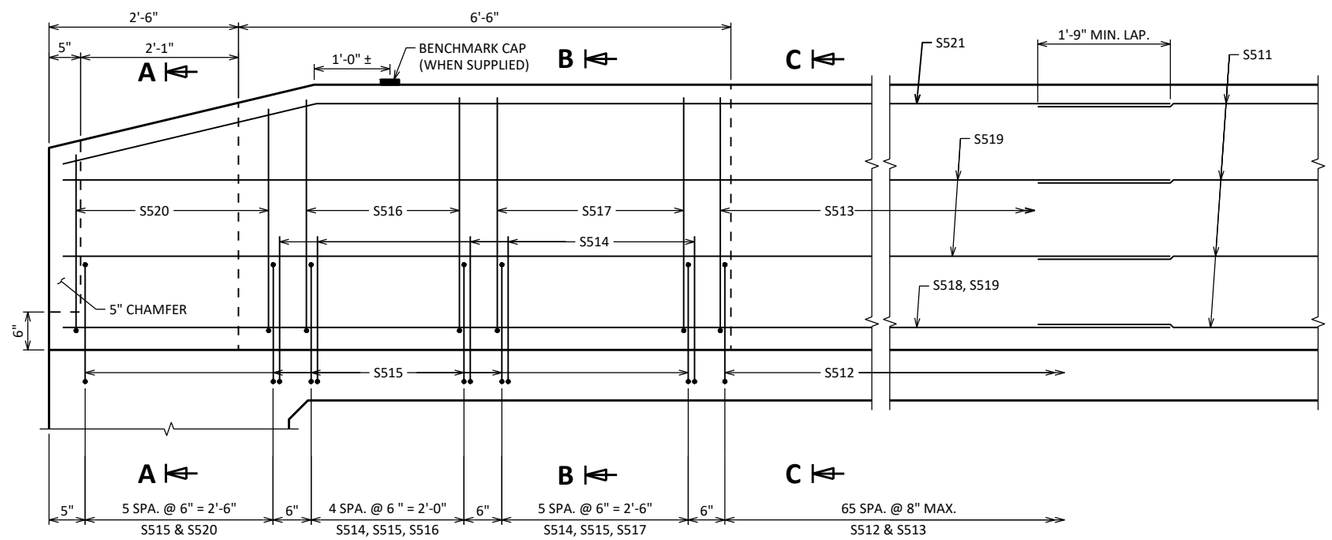
PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET



PLAN

WING 1 CORNER SHOWN



OUTSIDE ELEVATION

WING 1 CORNER SHOWN

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ USE CARE TO PLACE S514 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ S512, S514, AND S515 BARS TO BE TIED TO SUPERSTRUCTURE STEEL BEFORE SUPERSTRUCTURE IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY EKK | PLANS CK'D ANC

SINGLE SLOPE PARAPET 42SS AT WING 1

SHEET 10
38

8

8

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STATE PROJECT NUMBER

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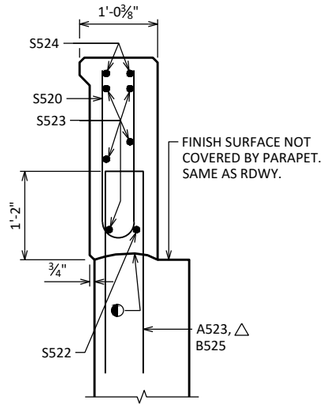
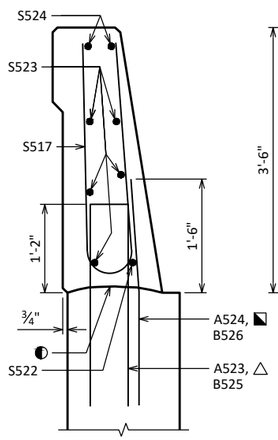
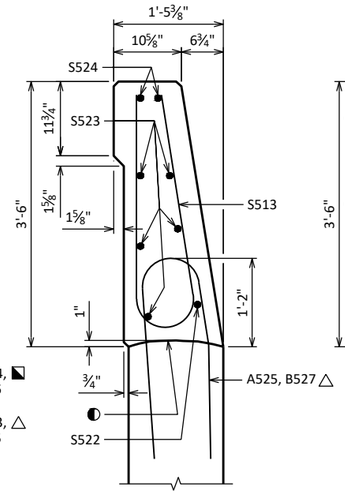


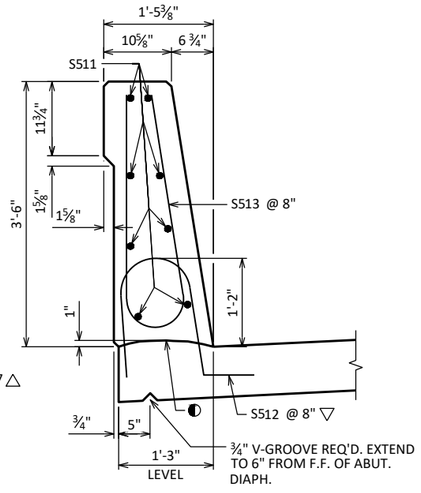
SECTION A-A



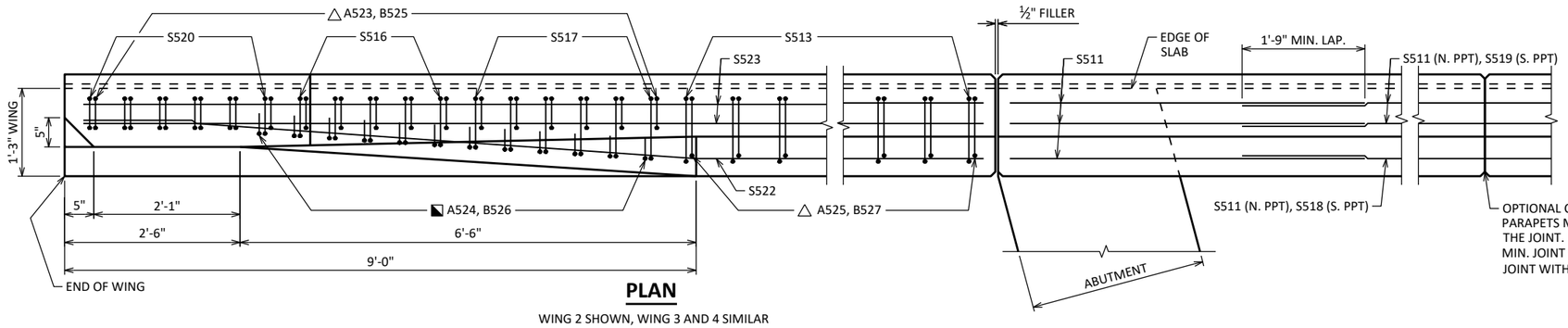
SECTION B-B



SECTION C-C

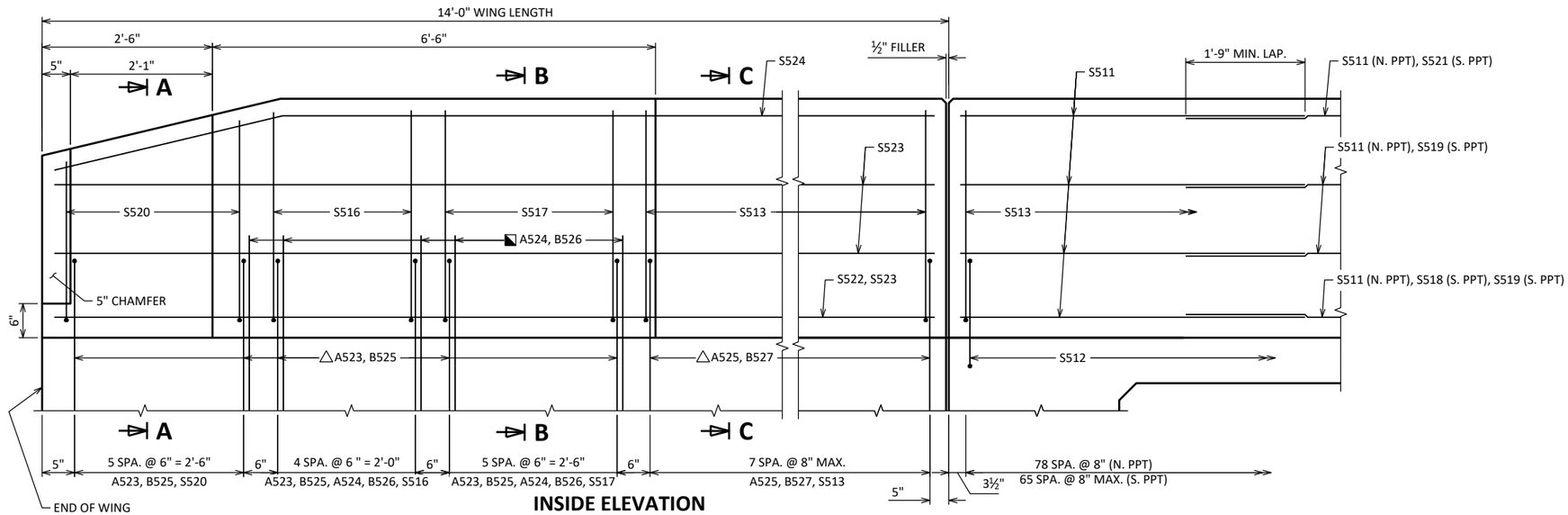


SECTION THRU PARAPET ON SLAB



PLAN

WING 2 SHOWN, WING 3 AND 4 SIMILAR



INSIDE ELEVATION

WING 2 SHOWN, WING 3 AND 4 SIMILAR

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ A524 AND B526 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE A524 AND B526 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

△ A523, A525, B525, AND B527 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

▽ S512 BARS TO BE TIED TO SUPERSTRUCTURE STEEL BEFORE SUPERSTRUCTURE IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-270

DRAWN BY	EKK	PLANS CK'D	ANC

SINGLE SLOPE PARAPET 42SS ON WINGS 2, 3, & 4

SHEET 11
39

8

8

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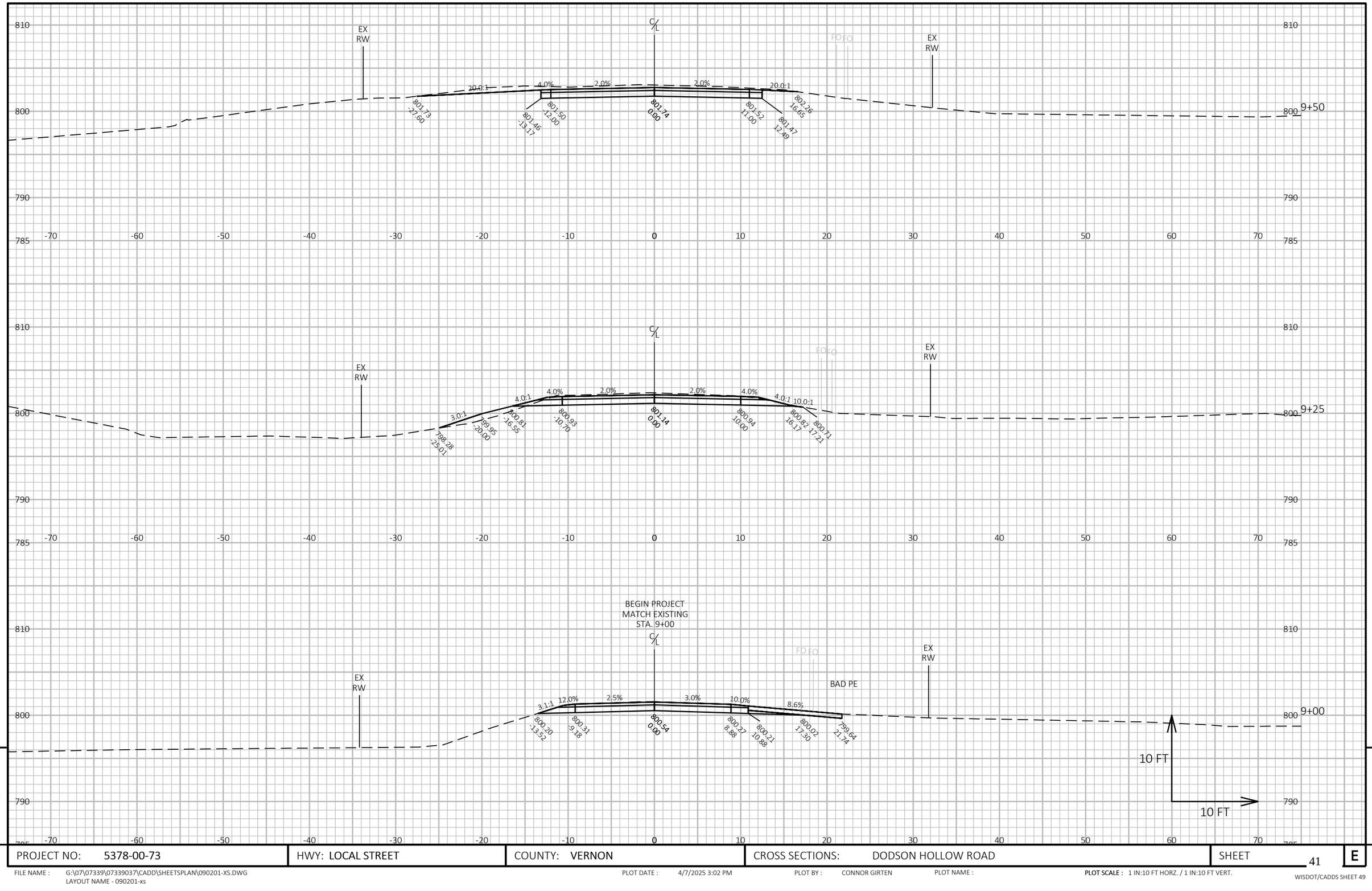
PROJECT I.D. 5378-00-73 EARTHWORK SUMMARY

DODSON HOLLOW RD

STA	EXCAVATION COMMON CY	FILL (1) CY	EXPANDED FILL (1)(2) CY	WASTE (1) CY	BORROW CY
9+00.00					
	27	2	3	24	-24
9+25.00					
	33	2	3	30	-30
9+50.00					
BRIDGE STRUCTURE B-62-0270					
10+39.51					
	8	1	1	7	-7
10+50.00					
	24	2	3	21	-21
10+75.00					
	6	0	0	6	-6
10+80.00					
SUBTOTALS					
WEST APPROACH	60	4	6	54	-54
EAST APPROACH	38	3	4	34	-34
UNUSABLE PAVEMENT (3)					5
TOTALS	98	7	10	88	0

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.
(2) - FILL EXPANSION 30%
(3) - EXISTING PAVEMENT BASED ON AVE THK OF 1.0"



9

9

PROJECT NO: 5378-00-73	HWY: LOCAL STREET	COUNTY: VERNON	CROSS SECTIONS: DODSON HOLLOW ROAD	SHEET 41	E

FILE NAME : G:\07\07339\07339037\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 4/7/2025 3:02 PM

PLOT BY : CONNOR GIRTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

END PROJECT
MATCH EXISTING
STA. 10+80
℄
L

EX
RW

10.0%
2.6%
2.0%
17.0%
4.0:1

804.38
-18.90
804.42
-17.28
804.87
0.00
804.65
11.00
804.55
16.04

10+80

EX
RW

℄
L

6.0:1
7.0%
2.3%
2.0%
9.0%
4.0:1
6.0:1

804.28
-20.66
804.45
-12.97
804.75
0.00
804.53
11.00
804.42
16.74
804.28
17.58

10+75

EX
RW

EX
RW

℄
L

EX
RW

3.0:1
4.0:1
4.0%
2.0%
2.0%
4.0%
4.0:1
4.0:1

801.34
-25.31
803.10
-20.00
803.81
-17.19
803.93
-11.01
804.15
0.00
803.92
11.25
803.80
17.27
803.60
18.07

STRUCTURE B-62-0270

10+50

10 FT
10 FT

9

9

PROJECT NO: 5378-00-73	HWY: LOCAL STREET	COUNTY: VERNON	CROSS SECTIONS: DODSON HOLLOW ROAD	SHEET 42	E

FILE NAME : G:\07\07339\07339037\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 4/7/2025 3:02 PM

PLOT BY : CONNOR GIRTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Notes

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