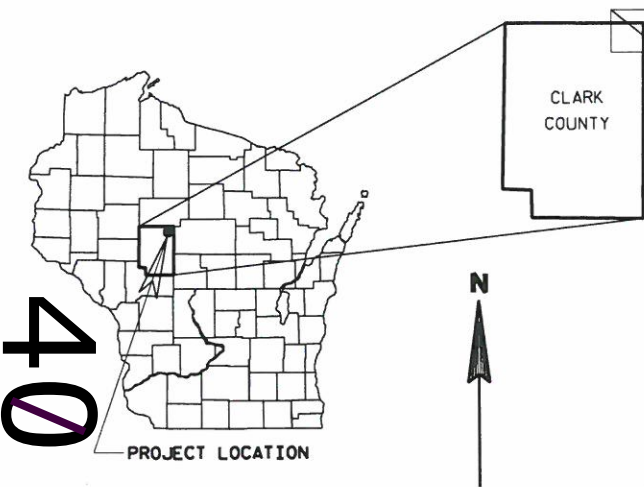


ORDER OF SHEETS

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

TOTAL SHEETS = 46



DESIGN DESIGNATION

A.D.T. (2015)	=	<100
A.D.T. (2035)	=	<100
D.H.V.	=	10
D.	=	50/50
T.	=	5%
DESIGN SPEED	=	50 MPH
ESALS	=	N/A

CONVENTIONAL SYMBOLS PLAN

CORPORATE LIMITS	PL + 58.1
PROPERTY LINE	PL + 58.1
LOT LINE	PL + 58.1
LIMITED HIGHWAY EASEMENT	PL + 58.1
EXISTING RIGHT OF WAY	PL + 58.1
PROPOSED OR NEW R/W LINE	PL + 58.1
SLOPE INTERCEPT	PL + 58.1
REFERENCE LINE	PL + 58.1
EXISTING CULVERT	PL + 58.1
PROPOSED CULVERT (Box or Pipe)	PL + 58.1
COMBUSTIBLE FLUIDS	CAUTION
HIGH VOLTAGE	CAUTION
MARSH AREA	CAUTION
WOODED OR SHRUB AREA	CAUTION

PROFILE

GRADE LINE	—
ORIGINAL GROUND	—
MARSH OR ROCK PROFILE (To be noted as such)	—
SPECIAL DITCH	—
GRADE ELEVATION	—
CULVERT (Profile View)	—
UTILITIES	—
OVERHEAD ELECTRIC	— OH —
ELECTRIC	— E —
FIBER OPTIC	— FO —
GAS	— G —
SANITARY SEWER	— SAN —
STORM SEWER	— SS —
TELEPHONE	— T —
WATER	— W —
UTILITY PEDESTAL	—
POWER POLE	—
TELEPHONE POLE	—

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

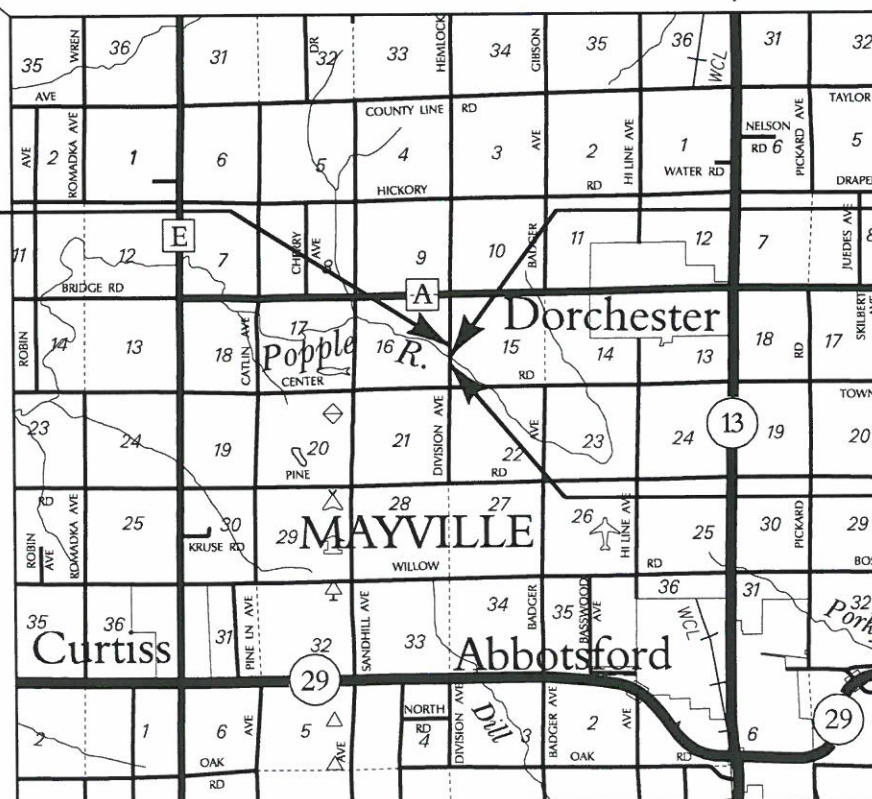
T MAYVILLE, DIVISION AVENUE N FK POPPLE RIVER BRIDGE B100227 TOWN ROAD CLARK COUNTY

STATE PROJECT NUMBER
8880-00-70

END PROJECT
STA. 12+00
Y = 508232.90
X = 741798.44

STRUCTURE B-10-0227

BEGIN PROJECT
STA. 4+50
Y = 507482.97
X = 741788.80



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.128 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO
THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS),
CLARK COUNTY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8880-00-70	WISC 2015154	1

ACCEPTED FOR
Town Mayville
9/29/14 Raymond B. Smith
Date Chairman

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES 3433 Oakwood Hills Parkway
Eau Claire, WI 54701 www.AyresAssociates.com

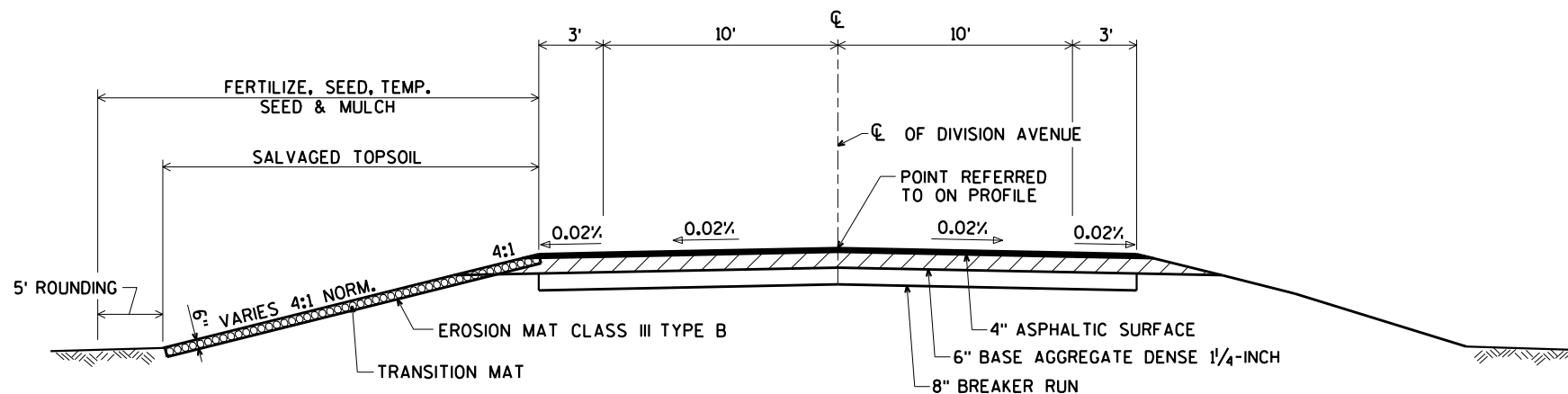
WISCONSIN PROFESSIONAL ENGINEER
DANIEL N. SYDOW
E-38363 WI
9/23/2014

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor AYRES ASSOCIATES INC
Designer AYRES ASSOCIATES INC
Management Consultant KNIGHT E/A INC.
C.O. Examiner

APPROVED FOR THE DEPARTMENT
DATE: 10/21/14 Ryan B. McNamee
Management Consultant Signature

E

**DETAIL FOR FLOOD EROSION PROTECTION**

(STA. 5+50 TO STA. 8+25)

NOTE:

TRANSITION MAT AND EROSION MAT CLASS III TYPE B TO BE PLACED FROM EDGE OF PAVEMENT SHOULDER TO TOE OF SLOPE.

ABBREVIATIONS

AC	ACRES
CHIS	CHISELED
CL	CENTERLINE
COR	CORNER
CWT	COUNT
CY	CUBIC YARD
EL	ELEVATION
GAL	GALLON
H	HOUSE
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MON	MONUMENT
NORM	NORMAL
OAL	OVERALL LENGTH
PC	POINT OF CURVATURE
PD	PEDESTAL
PI	POINT OF INTERSECTION
PK	PARKER-KALON
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PP	POWER POLE
PT	POINT OF TANGENCY
R	RADIUS
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
SF	SQUARE FEET
SHLDR	SHOULDER
STA	STATION
SY	SQUARE YARD
TLE	TEMPORARY LIMITED EASEMENT
VAR	VARIES
WL	WELL

WISCONSIN DEPARTMENT OF
NATURAL RESOURCES CONTACT:
CHRISTOPHER WILLGER
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54702
715-839.1609
christopher.j.willger@wisconsin.gov

DESIGNER

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: DANIEL N. SYDOW
715-834-3161
sydowd@AyresAssociates.com

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EXCAVATION FOR STRUCTURES SHALL INCLUDE FURNISHING, PLACEMENT AND COMPACTION OF ANY FILL MATERIAL REQUIRED TO PROVIDE A SUITABLE FOUNDATION FOR SUBSTRUCTURE UNITS.

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.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCLUSIVE OF THE ROADBED, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

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

SALVAGED TOPSOIL SHALL BE PLACED ON THE SLOPES, TO THE POINT OF INTERCEPT WITH THE ORIGINAL GROUND SHOWN ON THE CROSS SECTIONS.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88).

ASPHALTIC SURFACE SHALL USE 12.5 mm NOMINAL AGGREGATE SIZE WITH A 2" UPPER LAYER AND 2" LOWER LAYER.

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCE IS ALLOWED OUTSIDE THE SLOPE INTERCEPT.

THE LOCATION AND WIDTH OF THE EXISTING RIGHT OF WAY WAS DETERMINED BY THE MUNICIPALITY FOR THIS PROJECT. AYRES ASSOCIATES DOES NOT WARRANT IT'S ACCURACY.

UTILITIES

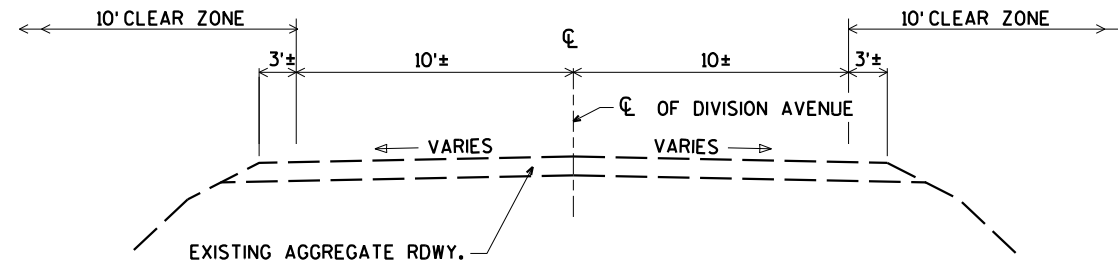
TDS TELECOM
10 COLLEGE AVE., SUITE 218A
APPLETON, WI 54911
ATTN: STEVE JAKUBIEC
920-882-4166
920-562-7221 (cell)
steve.jakubiec@tdstelecom.com

TAYLOR COUNTY ELECTRIC COOP.
N1831 STH 13
MEDFORD, WI 54451
ATTN: KEVIN COMSTOCK
800-862-2407
kevin@taylorelectric.org

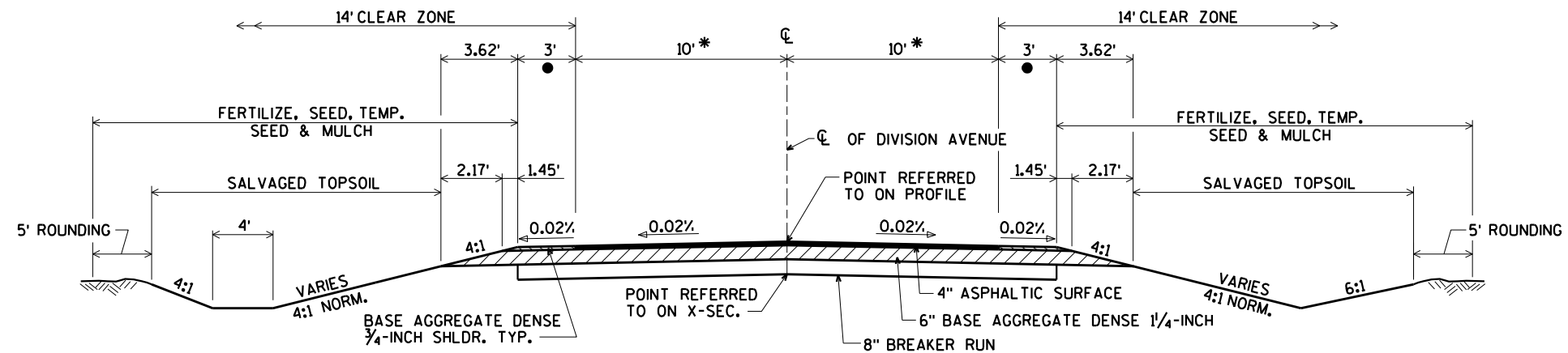
* * DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

DIGGERS HOTLINE

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



EXISTING TYPICAL SECTION

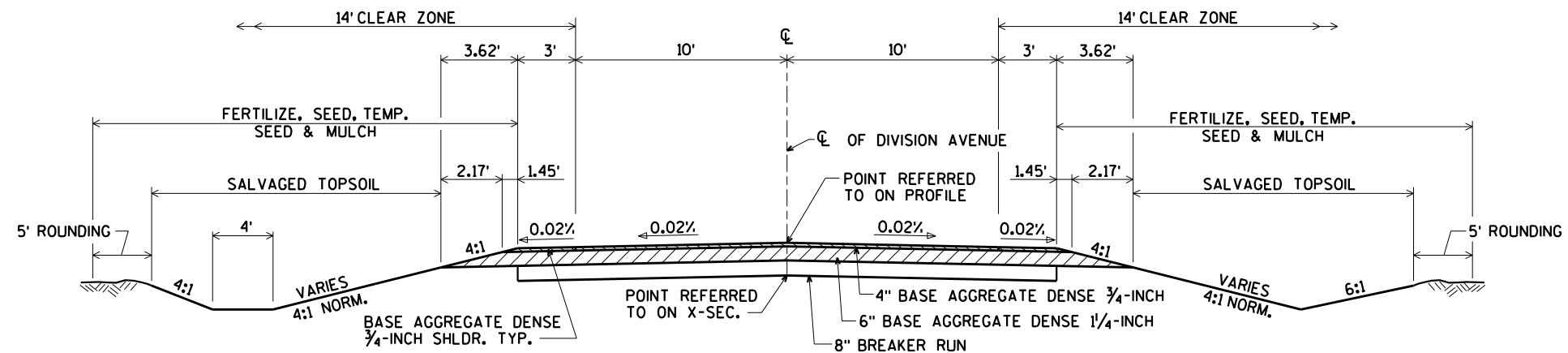


FINISHED TYPICAL PAVED SECTION

(STA. 4+50 TO STA. 9+63.73)
(STA. 10+36.27 TO STA. 10+86.27)

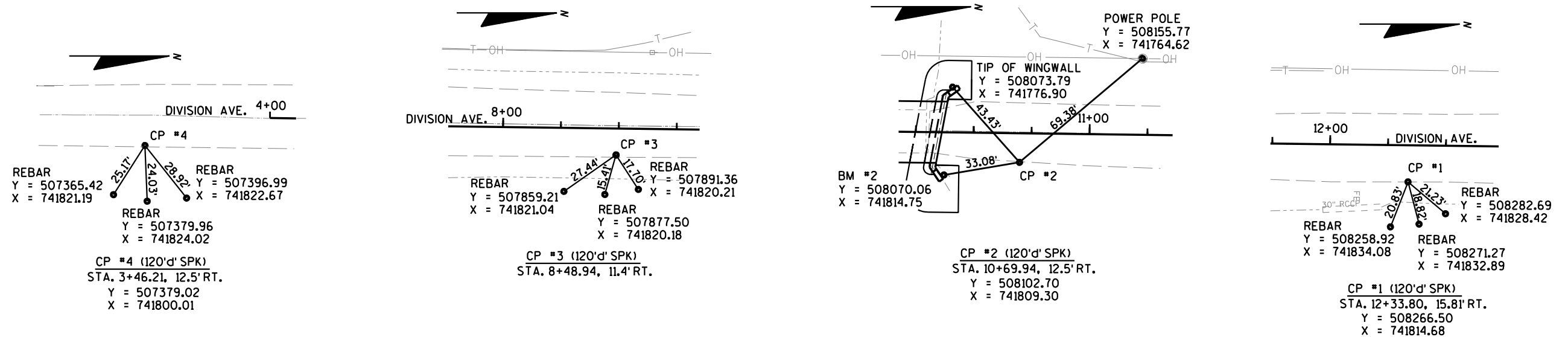
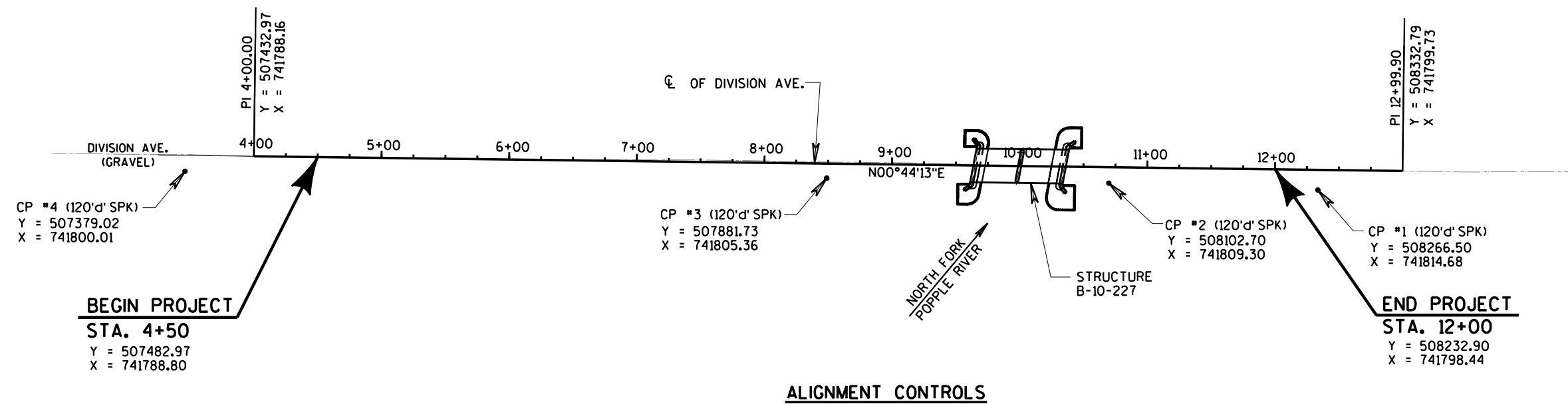
* ASPHALTIC SURFACE SHALL BE PLACED 26' WIDE
AT ENDS OF BRIDGE AND TAPER TO 20' WIDE
AT 50' FROM THE ENDS OF THE BRIDGE.

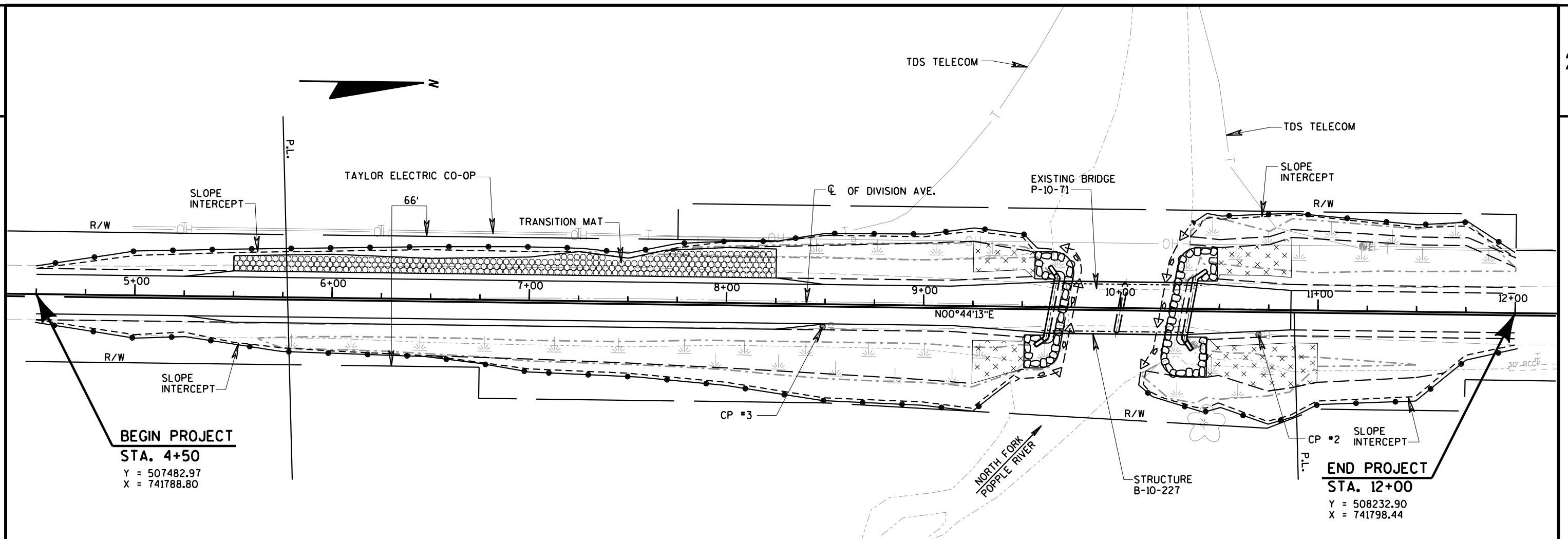
● SEE DETAIL FOR FLOOD EROSION PROTECTION
PAVED SHOULDER (STA. 5+50 TO STA. 8+25)



FINISHED TYPICAL UNPAVED SECTION

(STA. 10+86.27 TO STA. 12+00)





	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 STRIP- TURF	.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 SLOPE- TURF			.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 = 1.52 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.93 ACRES

HIGH WATER 2 EL. 1357.0

LEGEND

	EROSION MAT CLASS II TYPE B
	TEMPORARY DITCH CHECKS (UNDISTRIBUTED)
	SILT FENCE
	RIPRAP HEAVY
	TURBIDITY BARRIER
	TRANSITION MAT (WITH EROSION MAT CLASS III TYPE B)

DATE 23DEC14		E S T I M A T E O F Q U A N T I T I E S			
LINE		8880-00-70			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	4.000	4.000
0020	201.0205	Grubbing	STA	4.000	4.000
0030	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1.000	1.000
0040	205.0100	Excavation Common **P**	CY	1,170.000	1,170.000
0050	206.1000	Excavation for Structures Bridges (structure) 01. B-10-0227	LS	1.000	1.000
0060	210.0100	Backfill Structure	CY	160.000	160.000
0070	213.0100	Finishing Roadway (project) 01. 8880-00-70	EACH	1.000	1.000
0080	305.0110	Base Aggregate Dense 3/4-Inch	TON	135.000	135.000
0090	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	770.000	770.000
0100	311.0110	Breaker Run	TON	890.000	890.000
0110	455.0605	Tack Coat	GAL	105.000	105.000
0120	465.0105	Asphaltic Surface	TON	350.000	350.000
0130	502.0100	Concrete Masonry Bridges	CY	188.000	188.000
0140	502.3200	Protective Surface Treatment	SY	255.000	255.000
0150	505.0405	Bar Steel Reinforcement HS Bridges	LB	5,210.000	5,210.000
0160	505.0605	Bar Steel Reinforcement HS Coated Bridges	LB	24,280.000	24,280.000
0170	513.4060	Railing Tubular Type M (structure) 01. B-10-0227	LS	1.000	1.000
0180	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0190	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	640.000	640.000
0200	606.0300	Riprap Heavy	CY	160.000	160.000
0210	606.1100.S	Transition Mat	SY	405.000	405.000
0220	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000
0230	619.1000	Mobilization	EACH	1.000	1.000
0240	625.0500	Salvaged Topsoil	SY	2,745.000	2,745.000
0250	627.0200	Mulching	SY	4,270.000	4,270.000
0260	628.1504	Silt Fence	LF	1,775.000	1,775.000
0270	628.1520	Silt Fence Maintenance	LF	3,550.000	3,550.000
0280	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0290	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0300	628.2023	Erosion Mat Class II Type B	SY	405.000	405.000
0310	628.2033	Erosion Mat Class III Type B	SY	445.000	445.000
0320	628.6005	Turbidity Barriers	SY	300.000	300.000
0330	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0340	629.0210	Fertilizer Type B	CWT	3.000	3.000
0350	630.0120	Seeding Mixture No. 20	LB	130.000	130.000
0360	630.0200	Seeding Temporary	LB	115.000	115.000
0370	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0380	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0390	638.2602	Removing Signs Type II	EACH	4.000	4.000
0400	642.5001	Field Office Type B	EACH	1.000	1.000
0410	643.0100	Traffic Control (Project) 01. 8880-00-70	EACH	1.000	1.000
0420	645.0120	Geotextile Fabric Type Hr	SY	320.000	320.000
0430	650.4500	Construction Staking Subgrade	LF	678.000	678.000
0440	650.5000	Construction Staking Base	LF	678.000	678.000
0450	650.6500	Construction Staking Structure Layout (Structure) 01. B-10-0227	LS	1.000	1.000
0460	650.9910	Construction Staking Supplemental Control (Project) 01. 8880-00-70	LS	1.000	1.000
0470	650.9920	Construction Staking Slope Stakes	LF	678.000	678.000
0480	715.0502	Incentive Strength Concrete Structures	DOL	1,128.000	1,128.000

DATE 23DEC14		E S T I M A T E O F Q U A N T I T I E S			
LINE		8880-00-70			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0490	ASP.1T0A	On-The-Job Training Apprentice At \$5.00/Hr	HRS	1,200.000	1,200.000
0500	ASP.1T0G	On-The-Job Training Graduate At \$5.00/Hr	HRS	300.000	300.000

EARTHWORK SUMMARY (CATEGORY 0010)												
DIVISION	STATION TO STATION	LOCATION	**p** 205.0100 EXCAVATION COMMON		SALVAGED/ UNUSEABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	UNEXPANDED	EXPANDED	MASS ORDINATE	WASTE	208.0100 BORROW	COMMENTS:
			CUT (2)	EBS (3)	(4)	(5)	FILL	FILL (7)	±(8)	CY	CY	
			CY	CY	CY	CY	CY	CY	CY	CY	CY	
1	Sta.4+50 - Sta. 9+63.73	Division Avenue	799	0	0	799	333	433	366	366	0	
	Sta. 10+36.27 to Sta. 12+00	Division Avenue	371	0	0	371	191	248	123	123	0	
GRANDTOTAL			1,170	0	0	1,170	524	681		489	0	
TOTAL EXCAVATION COMMON			1,170									

NOTES:
1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH BORROW MATERIAL.
4) SALVAGED/UNUSEABLE PAVEMENT MATERIAL
5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSEABLE PAVEMENT MATERIAL
6) EXCAVATION MARSH - TO BE BACKFILLED WITH BORROW. ITEM NUMBER 205.0400
7) EXPANDED FILL FACTOR = 1.30
EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
8) THE MASS ORDINATE ± QTY CALCULATED FOR THE DIVISION.
PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.
MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

CLEARING AND GRUBBING (CATEGORY 0010)

STATION TO STATION	201.0105	201.0205
	CLEARING STA	GRUBBING STA
Sta. 8+00 to Sta. 12+00	4	4

213.0100 FINISHING ROADWAY (CATEGORY 0010)

LOCATION	EACH
PROJECT 8880-00-70	1

BASE AGGREGATE DENSE (CATEGORY 0010)

STATION TO STATION	LOCATION	305.0110	305.0120
		3/4-INCH TON	1 1/4-INCH TON
Sta. 4+50 to Sta. 9+63.73	Shoulders	45	---
Sta. 10+36.27 to Sta. 12+00	Shoulders	90	---
Sta. 4+50 to Sta. 9+63.73	Shoulders	---	575
Sta. 10+36.27 to Sta. 12+00	Mainline	---	195
TOTALS		135	770

BREAKER RUN(CATEGORY 0010)

STATION TO STATION	LOCATION	311.0110
		BREAKER RUN TON
Sta. 4+50 to Sta. 9+63.73	MAINLINE	670
Sta. 10+36.27 to Sta. 12+00	MAINLINE	220
TOTALS		890

455.0605 TACK COAT (CATEGORY 0010)

STATION TO STATION	LOCATION	GAL
Sta. 4+50 to Sta. 9+63.73	Mainline	95
Sta. 10+36.27 to Sta. 12+00	Mainline	10
TOTAL		105

465.0105 ASPHALTIC SURFACE (CATEGORY 0010)

STATION TO STATION	LOCATION	TON
Sta. 4+50 to Sta. 9+63.73	Mainline	320
Sta. 10+36.27 to Sta. 12+00	Mainline	30
TOTAL		350

606.1100.S TRANSITION MAT (CATEGORY 0010)

STATION TO STATION	LOCATION	LF
Sta. 5+50 to Sta. 8+25	LT	325
Undistributed		80
TOTAL		405

619.1000 MOBILIZATION

LOCATION	EACH
PROJECT 8880-00-70 (CATEGORY 0010)	0.4
PROJECT 8880-00-70 (CATEGORY 0020)	0.6
TOTAL	1

SILT FENCE & SILT FENCE MAINTENANCE (CATEGORY 0010)

STATION TO STATION	LOCATION	628.1504	628.1520
		LF	MAINTENANCE LF
Sta. 4+50 to Sta. 9+65	LT	525	1,050
Sta. 4+50 to Sta. 9+44	RT	505	1,010
Sta. 10+35 to Sta. 12+00	LT	175	350
Sta. 10+10to Sta. 12+00	RT	215	430
Undistributed		355	710
TOTALS		1,775	3,550

SALVAGED TOPSOIL, MULCHING, FERTILIZER, SEED & TEMPORARY SEED (CATEGORY 0010)

STATION TO STATION	LOCATION	625.0500	627.0200	629.0210	630.0120	630.0200
		SALVAGED TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING NO. 20 LB	SEEDING TEMPORARY LB
Sta. 4+50 to Sta. 12+00	Mainline	2,745	3,415	2.4	101	92
Undistributed		---	855	0.6	29	23
TOTALS		2,745	4,270	3.0	130	115

MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTROL (CATEGORY 0010)

LOCATION	628.1905	628.1910
	MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 8880-00-70	4	2

628.2023 EROSION MAT CLASS II TYPE B (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 9+25 to Sta. 9+56	LT	50
Sta. 9+25 to 9+51	RT	60
Sta. 10+48 to Sta. 10+87	LT	75
Sta. 10+44 to Sta. 11+00	RT	140
Undistributed	RT	80
TOTAL		405

628.2033 EROSION MAT CLASS III TYPE B (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 5+50 to Sta. 8+25	LT	355
Undristributed		90
TOTAL		445

628.6005 TURBIDITY BARRIERS
(CATEGORY 0010)

LOCATION	SY
South Abutment	130
North Abutment	110
Undistributed	60
TOTAL	300

628.7504 TEMPORARY DITCH CHECKS (CATEGORY 0010)

LOCATION	LF
UNDISTRIBUTED	50
TOTAL	50

634.0612 WOOD POSTS 4X6 INCH X 12 FT (CATEGORY 0010)

STATION	LOCATION	EACH
Sta. 9+65	LT (Object Marker)	1
Sta. 9+60	RT (Object Marker)	1
Sta. 10+40	LT (Object Marker)	1
Sta. 10+35	RT (Object Marker)	1
TOTAL		4

637.2230 SIGNS TYPE II REFLECTIVE F (CATEGORY 0010)

STATION	SF
Sta. 9+65	3
Sta. 9+60	3
Sta. 10+40	3
Sta. 10+35	3
TOTAL	12

638.2602 REMOVING SIGNS TYPE II (CATEGORY 0010)

STATION	EACH
Sta. 9+69	1
Sta. 9+68	1
Sta. 10+32	1
Sta. 10+31	1
TOTAL	4

642.5001 FIELD OFFICE TYPE B (CATEGORY 0010)

LOCATION	EACH
PROJECT 8880-00-70	1

643.0100 TRAFFIC CONTROL (CATEGORY 0010)

LOCATION	EACH
PROJECT 8880-00-70	1

CONSTRUCTION STAKING

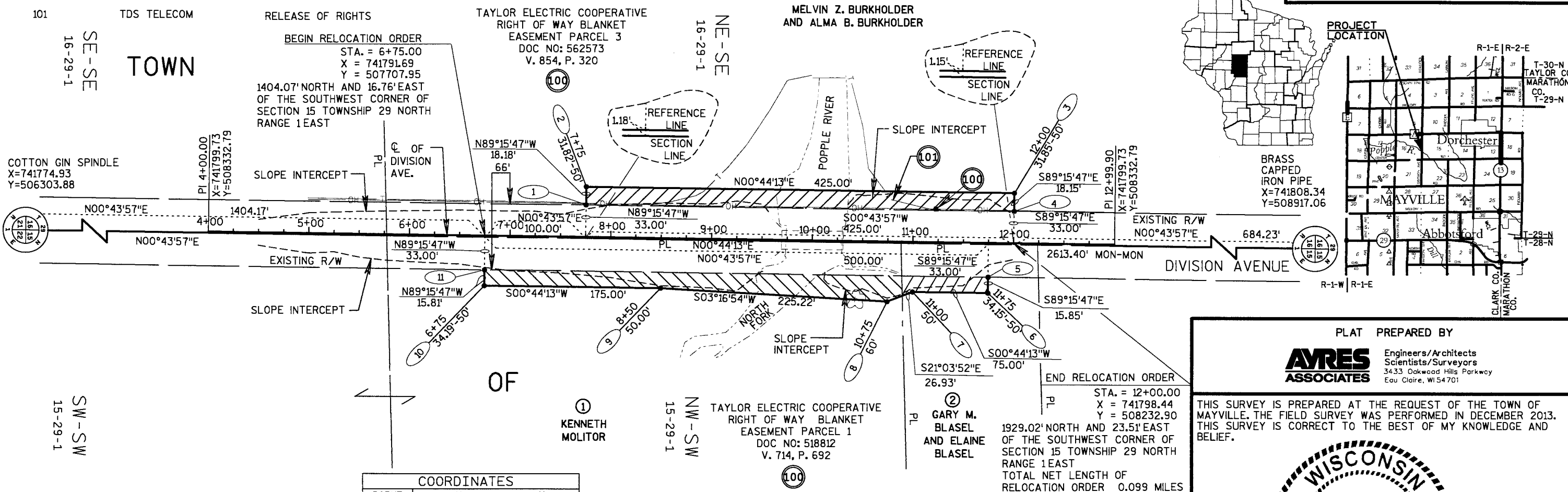
CATEGORY	LOCATION	650.4500	650.5000	650.6500	650.9910	650.9920
		SUBGRADE LF	BASE LF	STRUCTURE LAYOUT LS	SUPPLEMENTARY CONTROL LS	SLOPE STAKES LF
0010	Sta. 4+50 to Sta. 12+00	678	678	---	1	678
0020	B-10-0227	---	---	1	---	---
TOTALS		678	678	1	1	678

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	TOTAL ACRES	NEW	EXISTING	TOTAL FEE	TOTAL ACRES REMAINING
1	KENNETH MOLITOR	FEE	5.86	0.18	0.31	0.49	5.37
2	GARY M. BLASEL AND ELAINE BLASEL	FEE	14.14	0.03	0.07	0.10	14.04
3	MELVIN Z. BURKHOLDER AND ALMA B. BURKHOLDER	FEE	40.00	0.18	0.32	0.50	39.50
100	TAYLOR ELECTRIC COOPERATIVE	RELEASE OF RIGHTS					
101	TDS TELECOM	RELEASE OF RIGHTS					

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE TOWN.

R/W PROJECT NUMBER 8880-00-00	SHEET NUMBER 4.01	TOTAL SHEETS 1
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT-OF-WAY REQUIRED FOR TOWN OF MAYVILLE DIVISION AVENUE (N FK POPPLE RIVER BRIDGE B100227)		
TOWN ROAD	CLARK COUNTY	
CONSTRUCTION PROJECT NUMBER 8880-00-70		



POINT	Y	X
1	507808.35	741761.16
2	507808.58	741742.98
3	508233.55	741748.45
4	508233.31	741766.59
5	508207.47	741832.27
6	508207.26	741848.12
7	508132.27	741847.15
8	508107.14	741856.82
9	507882.29	741843.94
10	507707.30	741841.69
11	507707.51	741825.88

NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY ZONE COORDINATES, CLARK COUNTY ZONE, NAD83(2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARING AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE II (3/4" X 24" REINFORCEMENT BAR WEIGHING 1.13 LB/FT) AND ARE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, OR AT THE TIME OF LAND TITLE TRANSFER.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

EXISTING RIGHT OF WAY WIDTH FOR DIVISION AVENUE WAS PRESUMED TO BE 66' WIDE BASED ON STATE STATUTE 82.31(2). THE SECTION LINE WAS USED TO DEFINE CENTER OF THE RIGHT OF WAY.

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—
GAS	—G—
TELEPHONE	—T—
OVERHEAD	—OH—
TRANSMISSION LINES	—E—
ELECTRIC	—E—
CABLE TELEVISION	—TV—
FIBER OPTIC	—FO—
SANITARY SEWER	—SAN—
STORM SEWER	—SS—
POWER POLE	—P—
TELEPHONE POLE	—T—
TELEPHONE PEDESTAL	—P—
ELECTRIC TOWER	—E—

CONVENTIONAL ABBREVIATIONS

ACCESS POINT / DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC	RADIUS	R
MONUMENT	MON.	DEGREE OF CURVE	D
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA
PERMANENT LIMITED EASEMENT	P.L.E.	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	TAN
RECORDED AS	(100)		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	—IP—	PROPOSED R/W LINE	—P—
R/W MONUMENT	—M—	EXISTING H.E. LINE	—E—
R/W STANDARD	—S—	PROPERTY LINE	—P—
SIGN	—S—	LOT & TIE LINES	—L—
SECTION CORNER MONUMENT	—SCM—	SLOPE INTERCEPTS	—SI—
SECTION CORNER SYMBOL	—SCS—	CORPORATE LIMITS	—CL—
FEE (HATCH VARIES)	—F—	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	—NA—
TEMPORARY LIMITED EASEMENT	—TLE—	NO ACCESS (BY ACQUISITION)	—NA—
PERMANENT LIMITED EASEMENT	—PLE—	NO ACCESS (BY STATUTORY AUTHORITY)	—NA—
R/W BOUNDARY POINT	—BP—	SECTION LINE	—SL—
PARCEL NUMBER	—PN—	QUARTER LINE	—QL—
UTILITY PARCEL NUMBER	—UPN—	SIXTEENTH LINE	—SLN—
SIGN NUMBER (OFF PREMISE)	—SN—	EXISTING CENTERLINE	—EC—
BUILDING	—B—	PROPOSED REFERENCE LINE	—PR—
		PARALLEL OFFSET	—PO—



THIS SURVEY IS PREPARED AT THE REQUEST OF THE TOWN OF MAYVILLE. THE FIELD SURVEY WAS PERFORMED IN DECEMBER 2013. THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLAT PREPARED BY
AVRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

JOHN C. FAVORITE, PLS SEPTEMBER 15, 2014
DATE

REVISION DATE: CLARK COUNTY

APPROVED FOR TOWN OF MAYVILLE

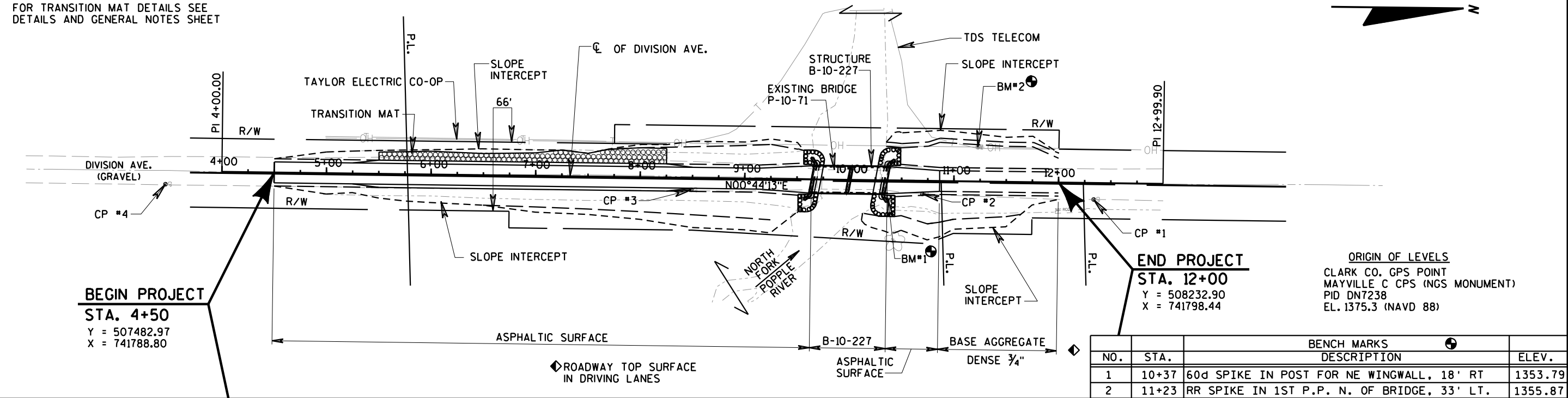
DATE: 9-29-14

CHARMAN

Raymond M. Mulder

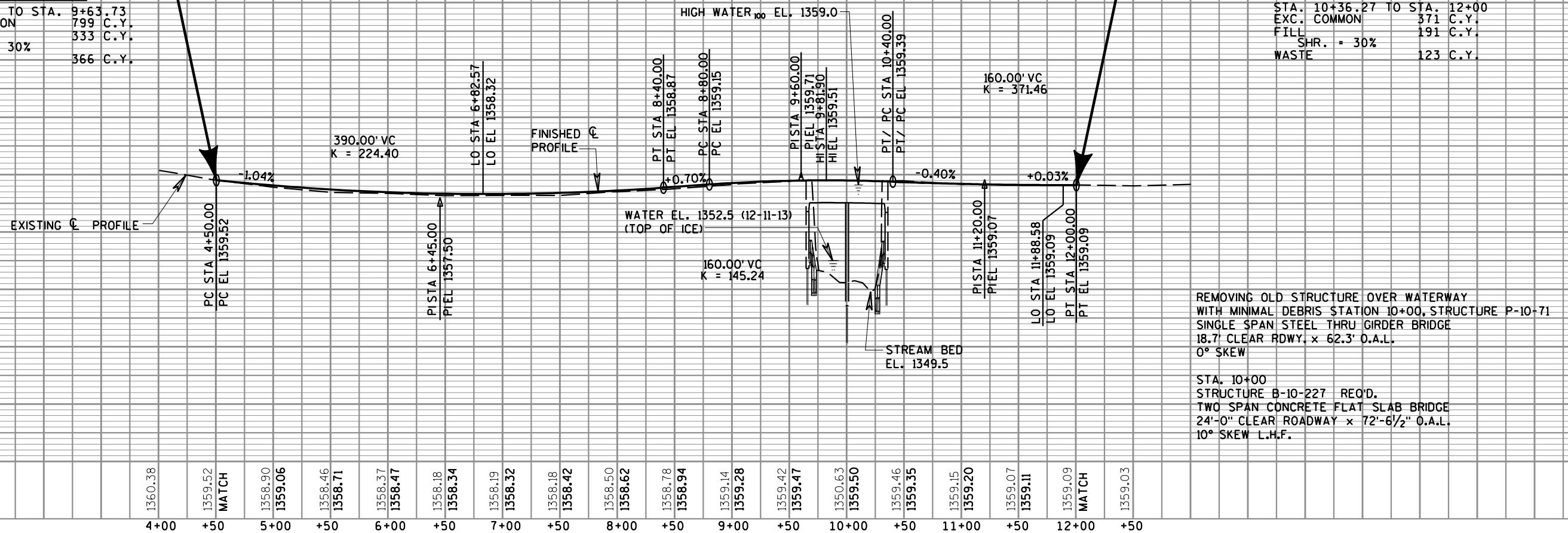
NOTES:
FOR ALIGNMENT CONTROLS, SEE
ALIGNMENT CONTROLS & TIES SHEET.

FOR TRANSITION MAT DETAILS SEE
DETAILS AND GENERAL NOTES SHEET



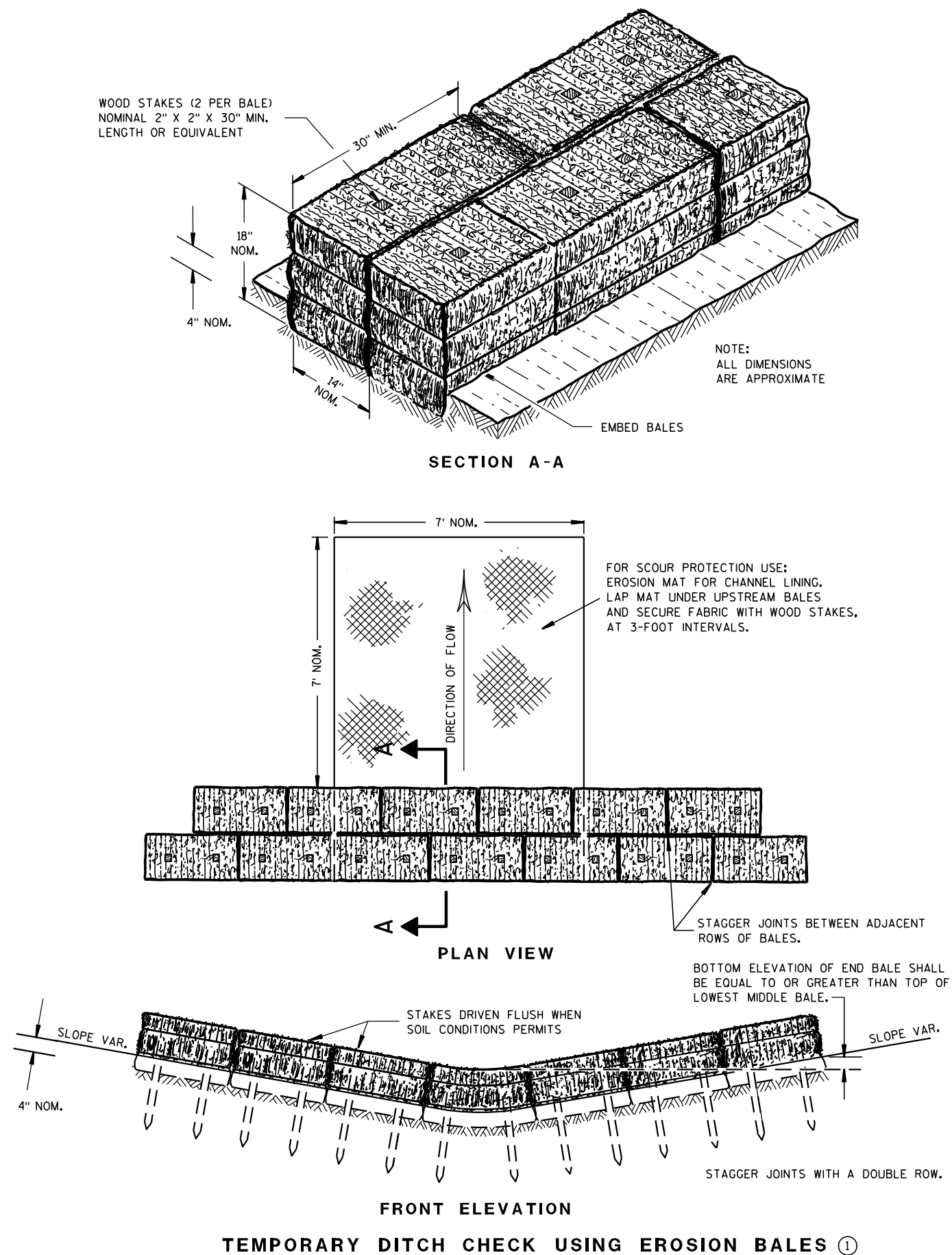
EARTHWORK SUMMARY
STA. 4+50 TO STA. 9+63.73
EXC. COMMON 799 C.Y.
FILL 333 C.Y.
SHR. = 30%
WASTE 366 C.Y.

EARTHWORK SUMMARY
STA. 10+36.27 TO STA. 12+00
EXC. COMMON 371 C.Y.
FILL 191 C.Y.
SHR. = 30%
WASTE 123 C.Y.



Standard Detail Drawing List

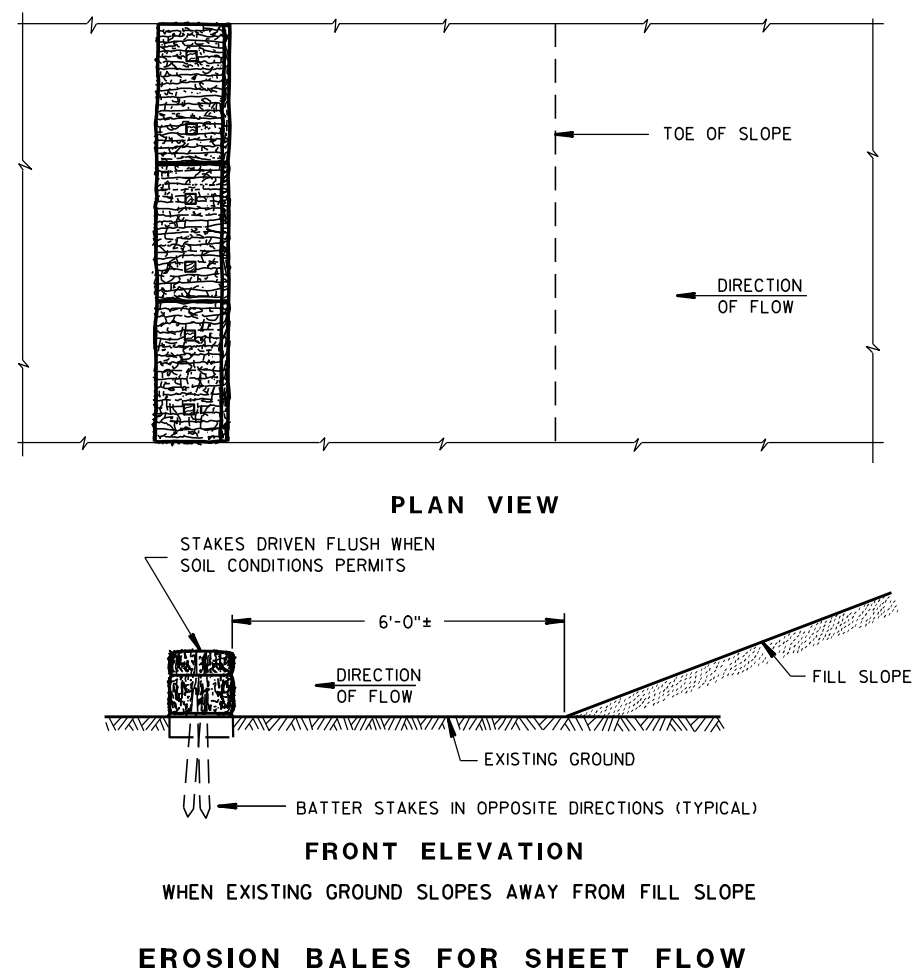
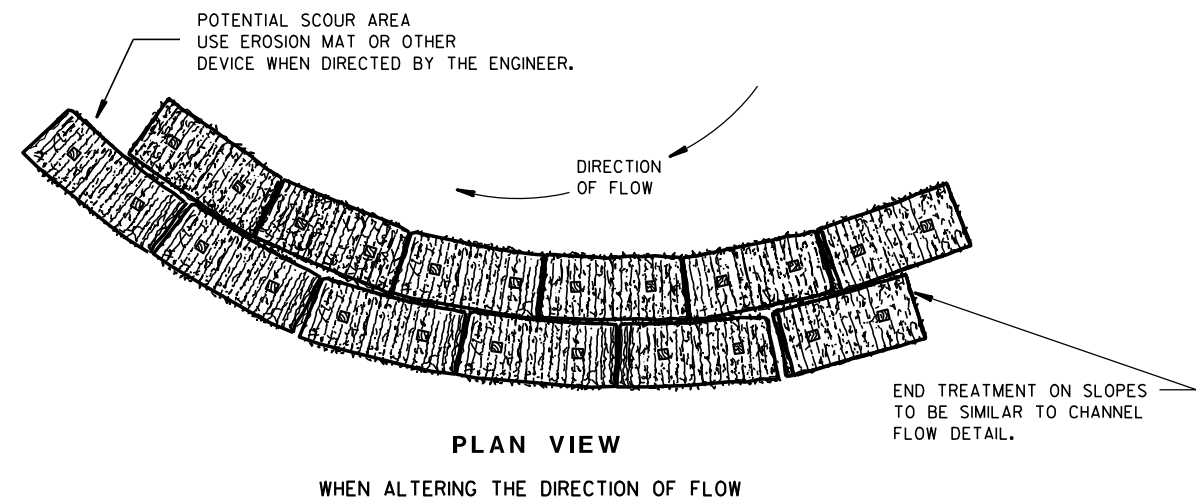
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES



GENERAL NOTES

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

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

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

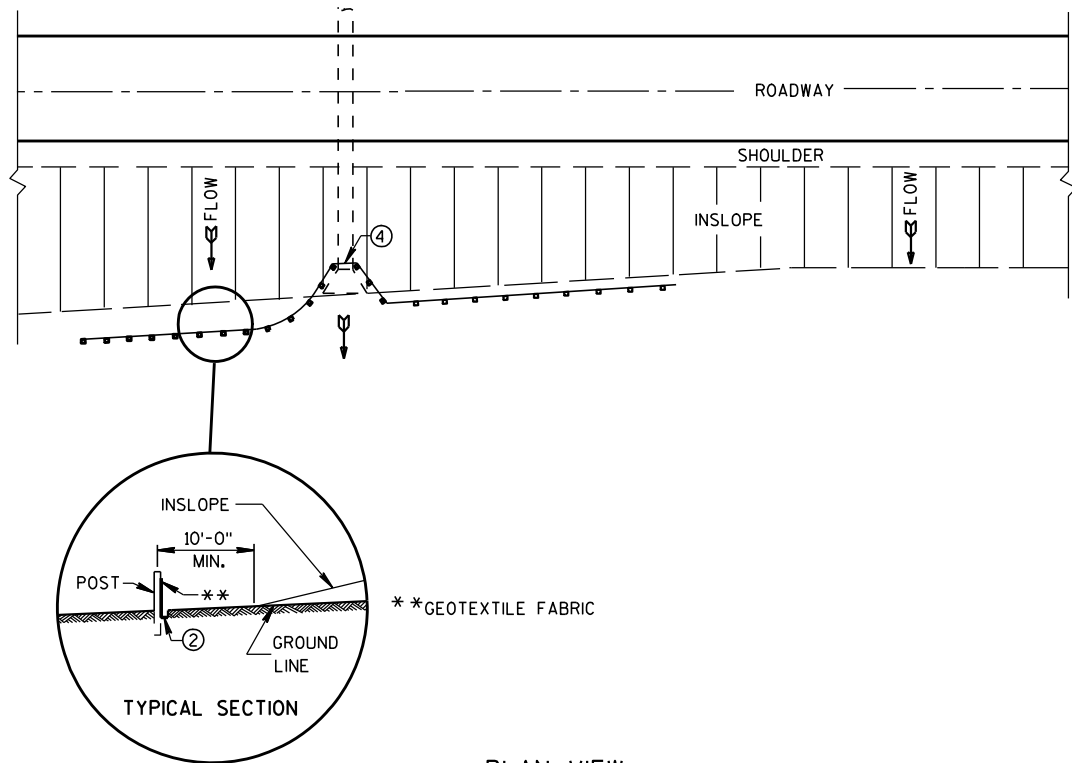
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

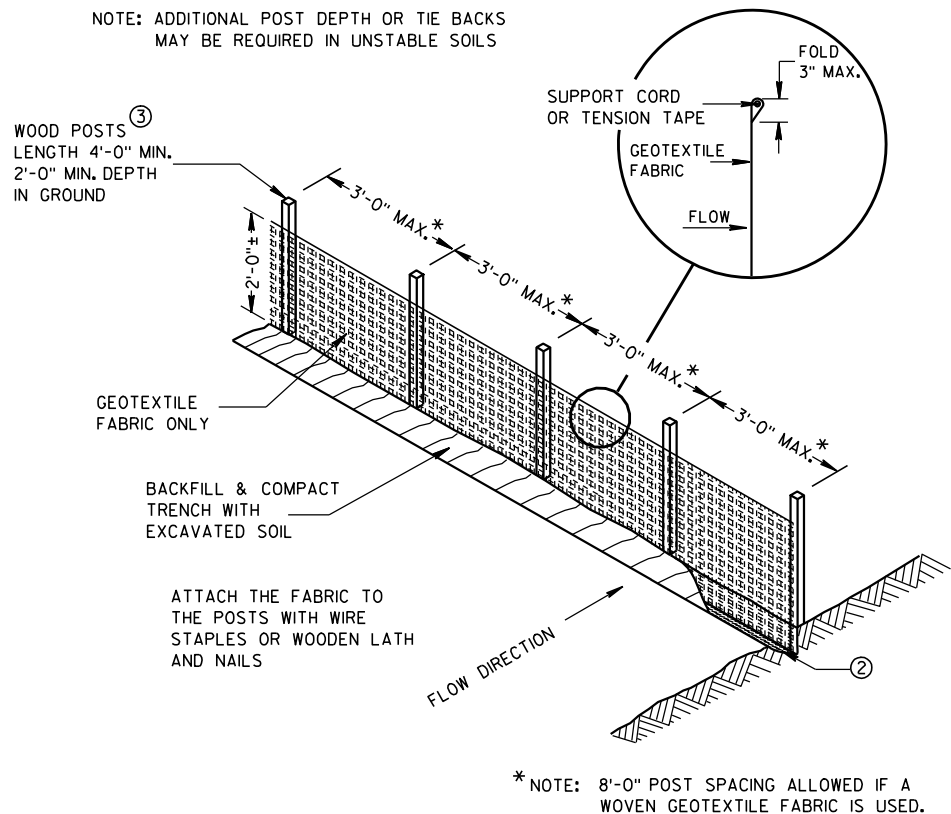
6/04/02
DATE

FHWA

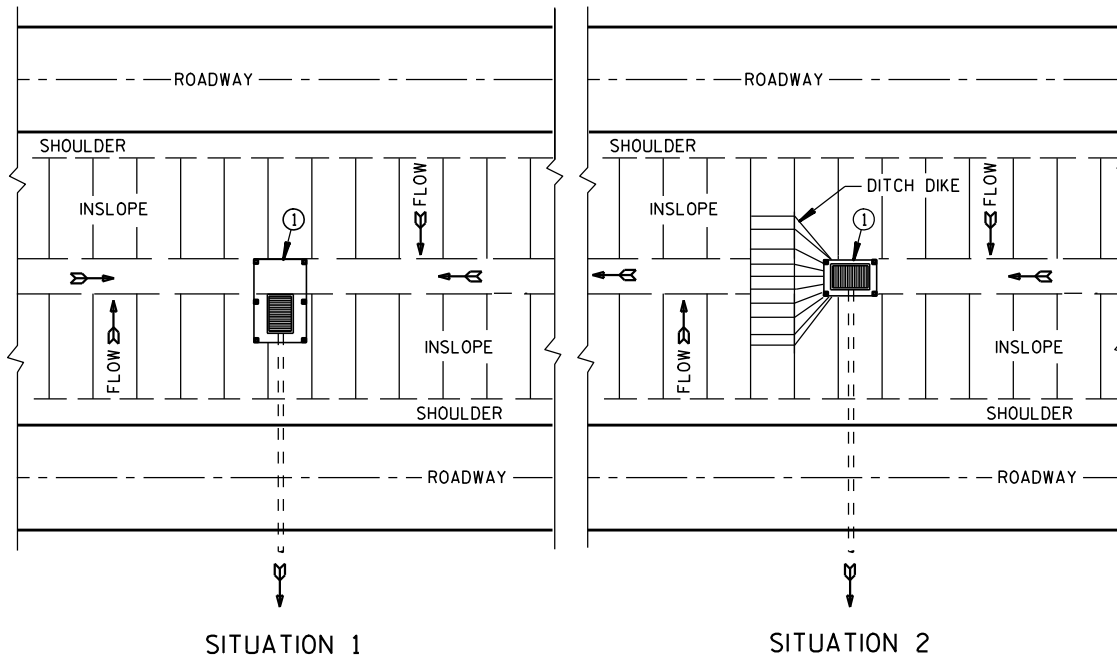
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



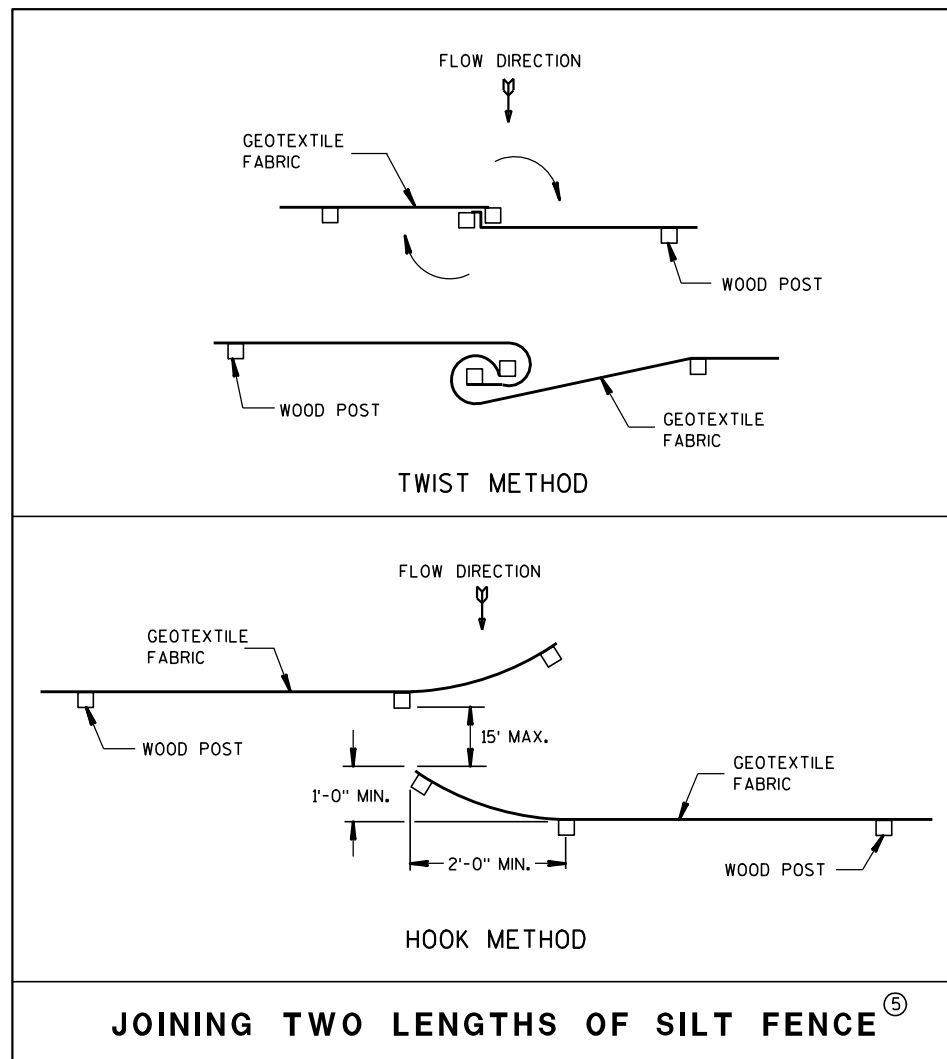
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

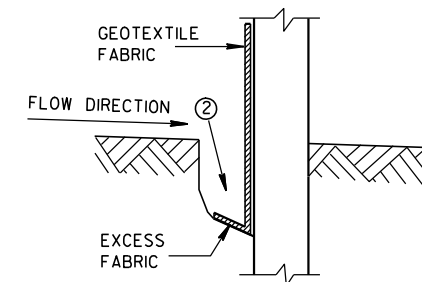


JOINING TWO LENGTHS OF SILT FENCE^⑤

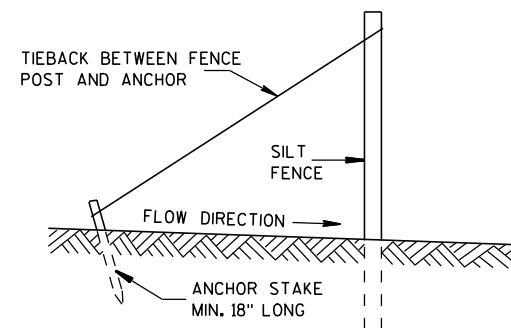
GENERAL NOTES

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 1 1/8" X 1 1/8" 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.

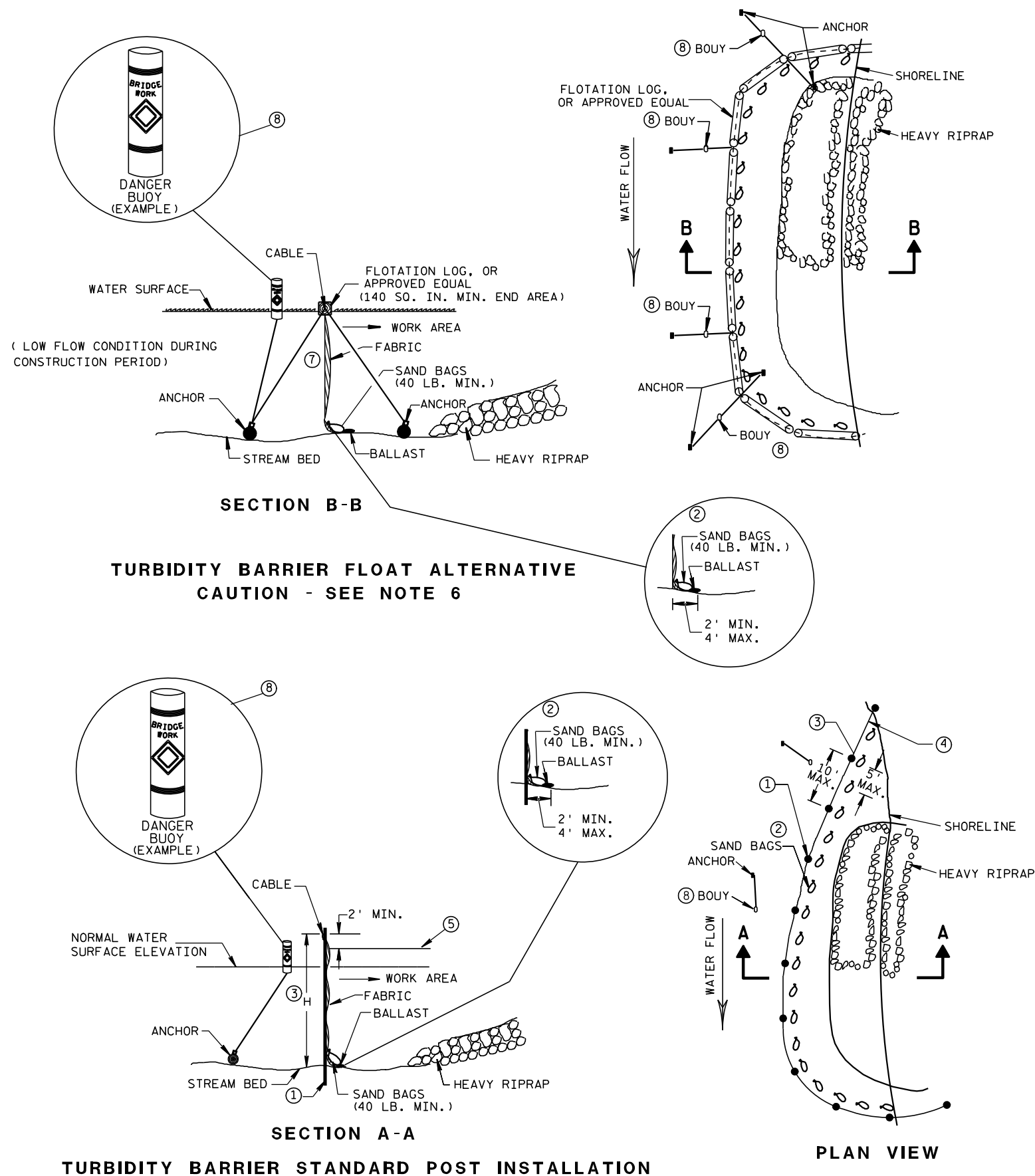


TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

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

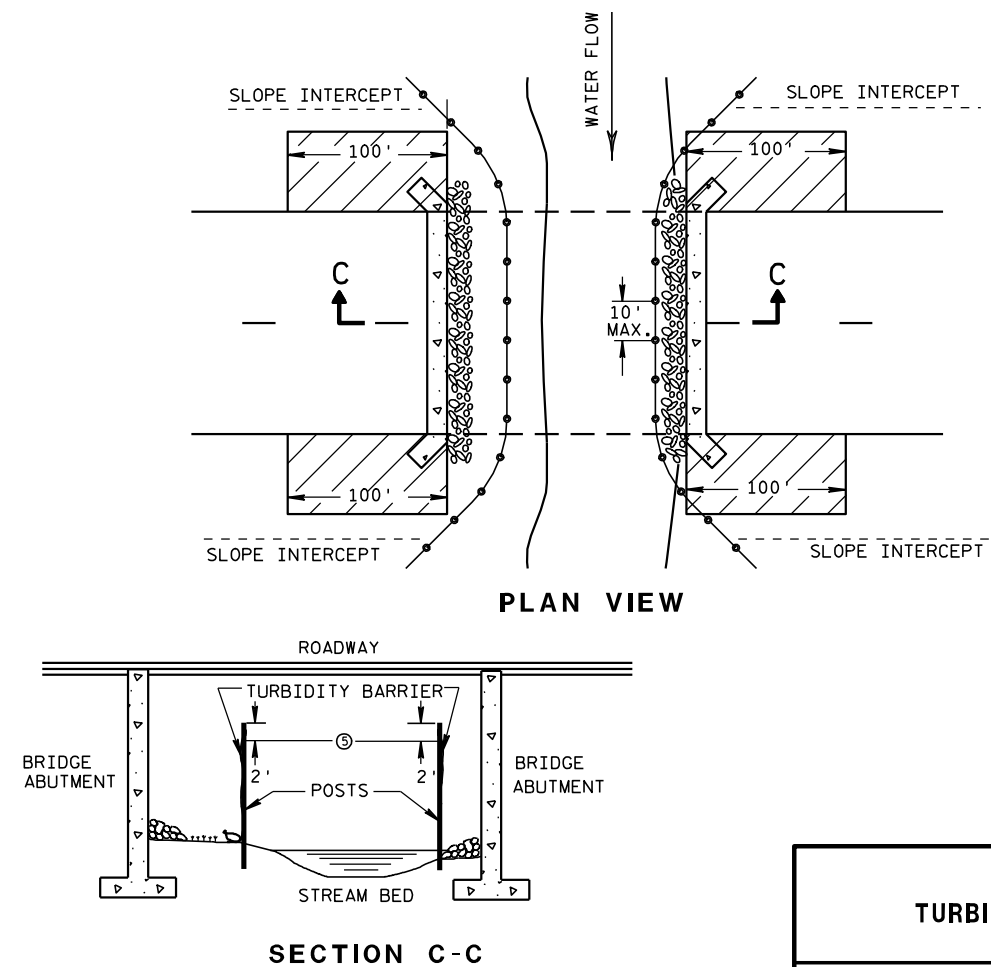


GENERAL NOTES

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 SANDBAGS 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 FT., 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 02 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 BED ROCK 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.



TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

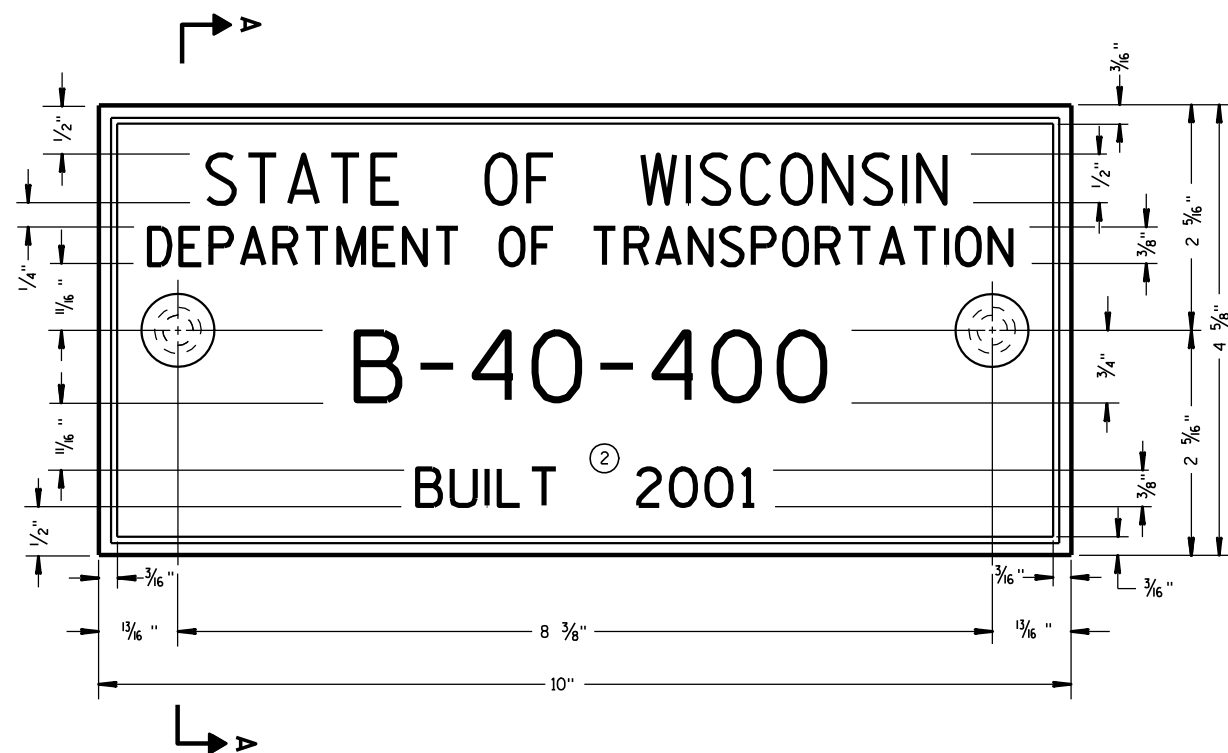
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

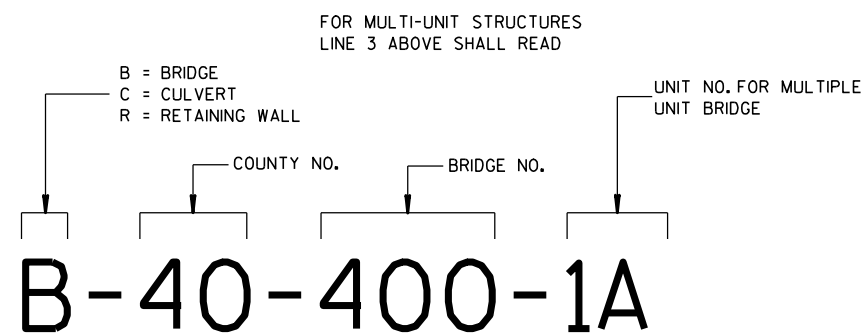
6/04/02
DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



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



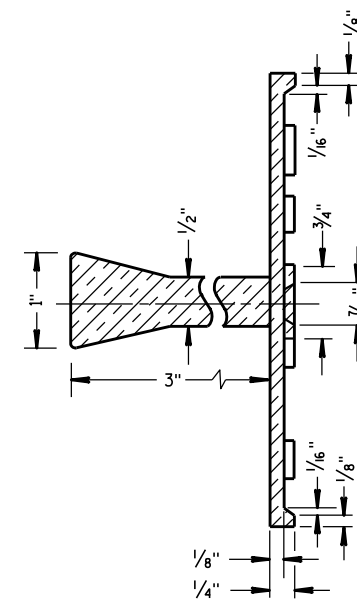
**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

GENERAL NOTES

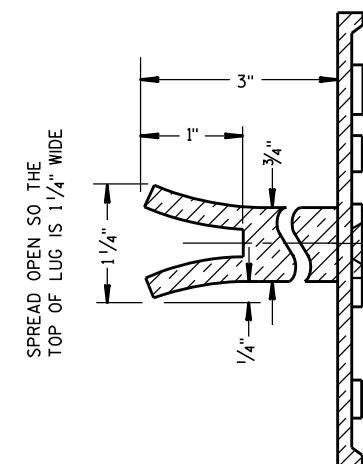
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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.

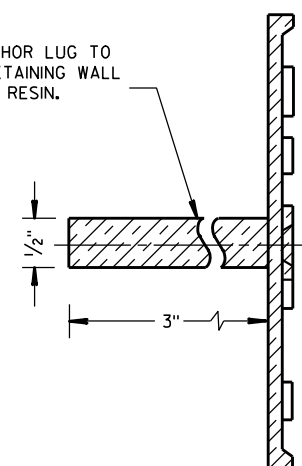


SECTION A-A



ALTERNATE LUG

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

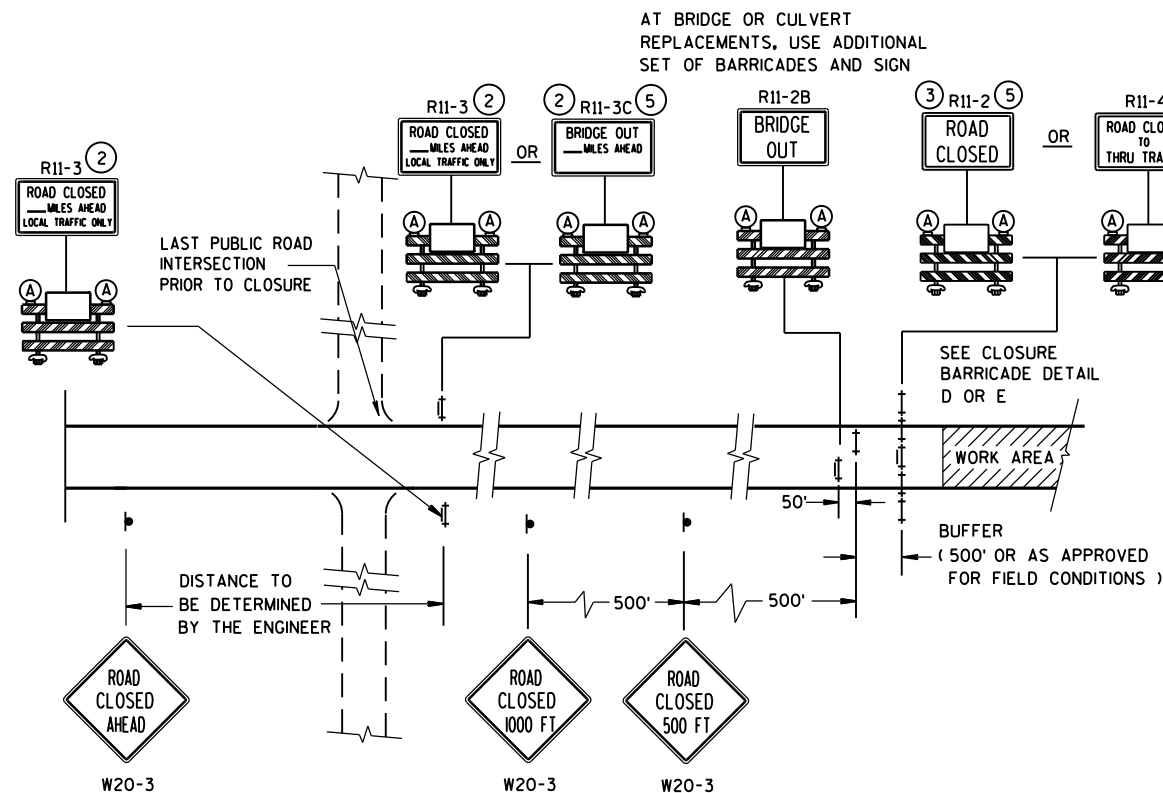
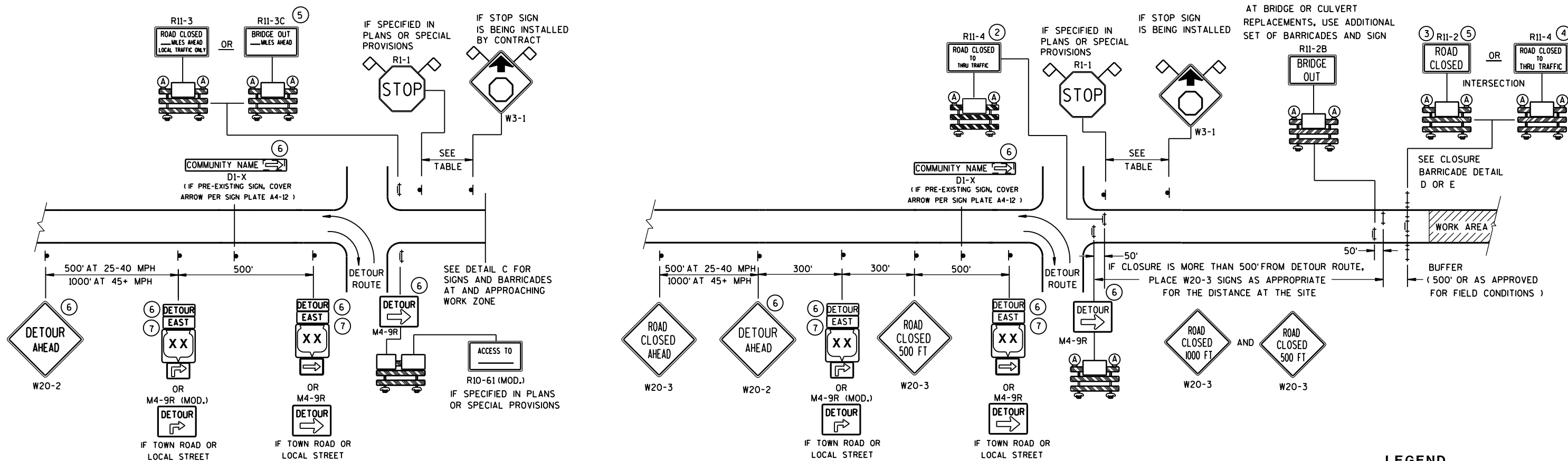
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10
DATE

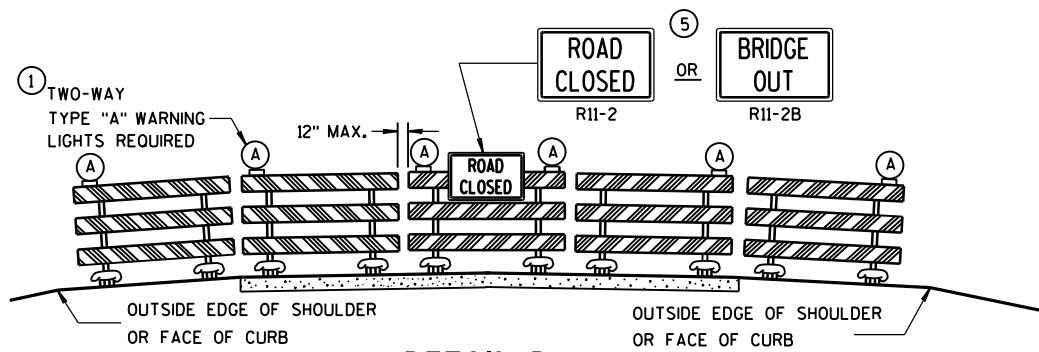
FHWA

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

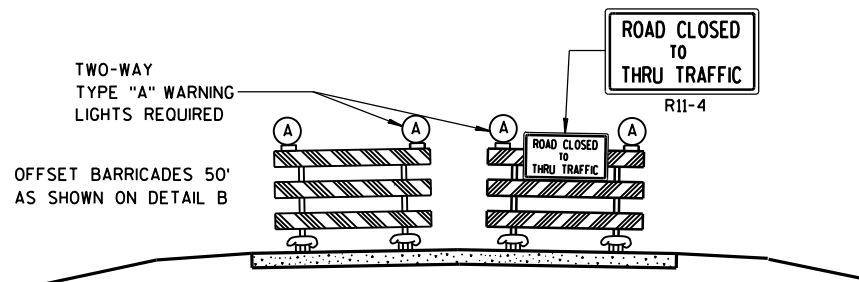


SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

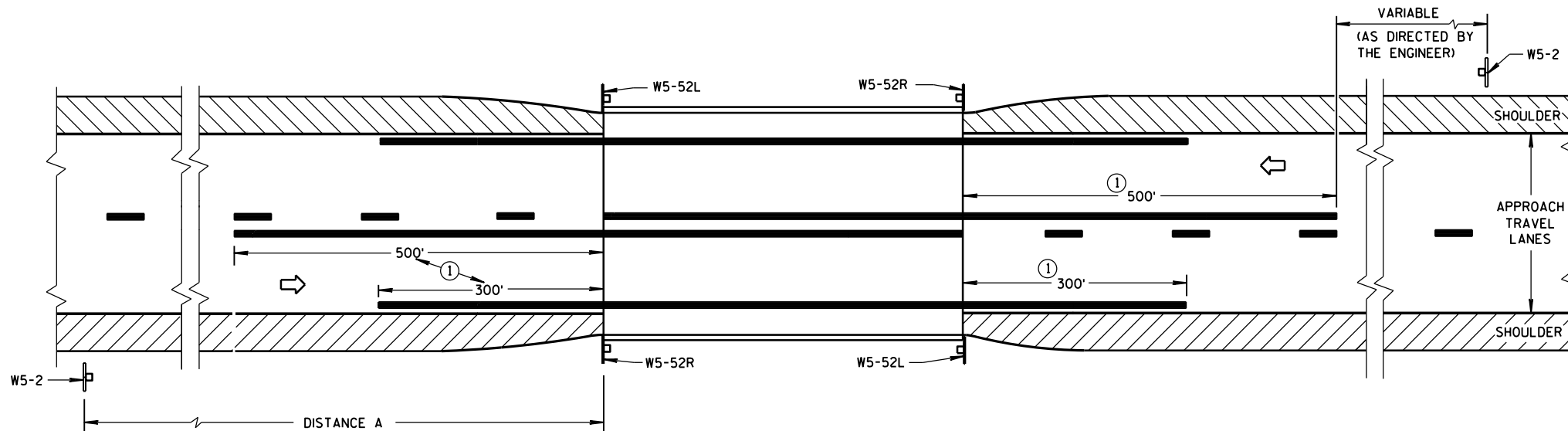
"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11-2 SHALL BE 48" X 30".
- R11-3, 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". (30" X 15" 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.)
- M05-1 AND M06-1 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 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 LANE 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 MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



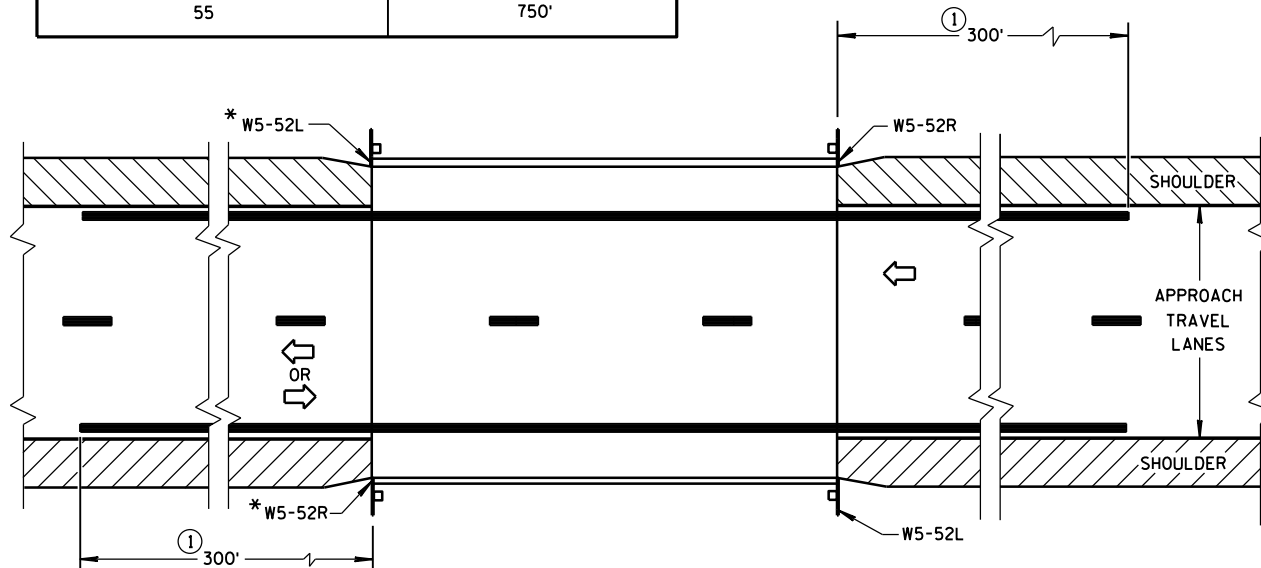
SITUATION 1

WARRANTING CRITERIA:

BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

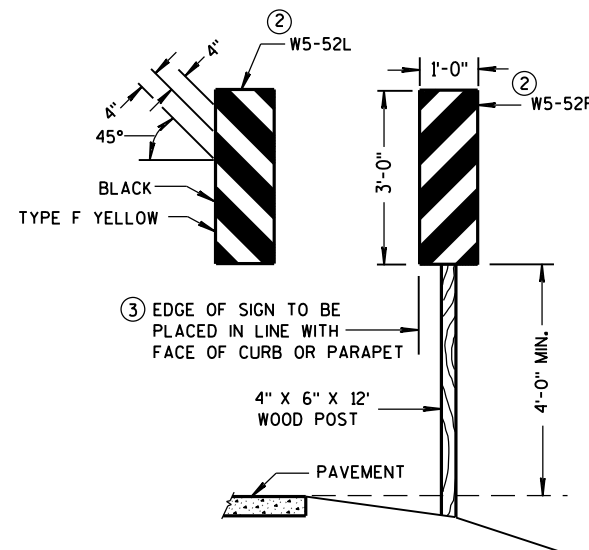


*OMIT ON ONE-WAY TRAVELLED WAYS

SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE IS LESS THAN 6 FEET WIDER (ON EACH SIDE) THAN APPROACH TRAVEL LANES.



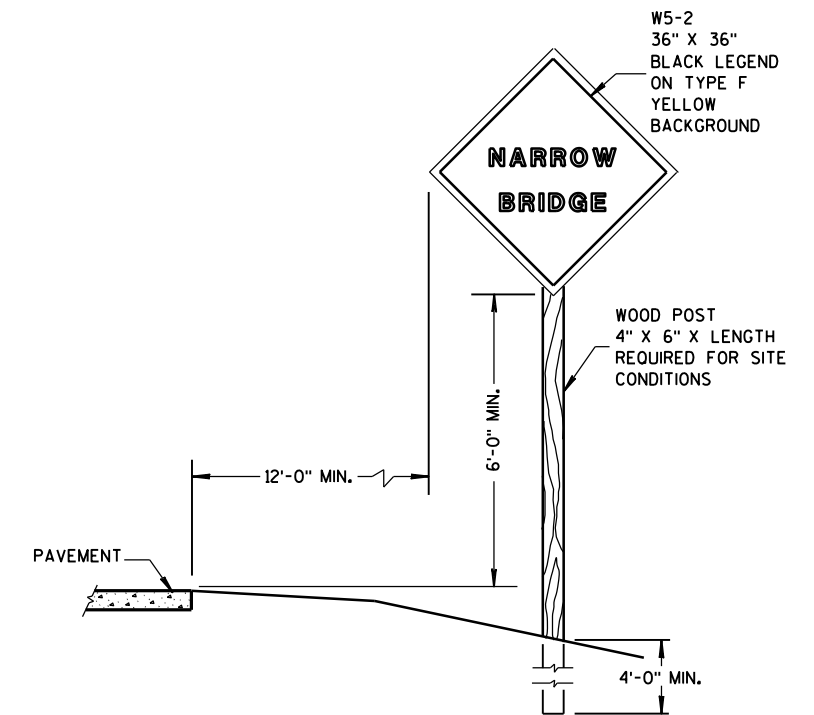
OBJECT MARKER PLACEMENT

GENERAL NOTES

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

PAVEMENT MARKING SHOWN ON THIS DRAWING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. WHEN SPECIFIED, PAVEMENT MARKING SHALL CONFORM TO THIS DRAWING AND OTHER CONTRACT REQUIREMENTS.

- ① MINIMUM DISTANCE UNLESS OTHERWISE SHOWN ON THE PLAN.
- ② FACE OF OBJECT MARKERS W5-52R, AND W5-52L SHALL BE COVERED WITH TYPE F REFLECTIVE SHEETING.
- ③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.



SIGN PLACEMENT

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

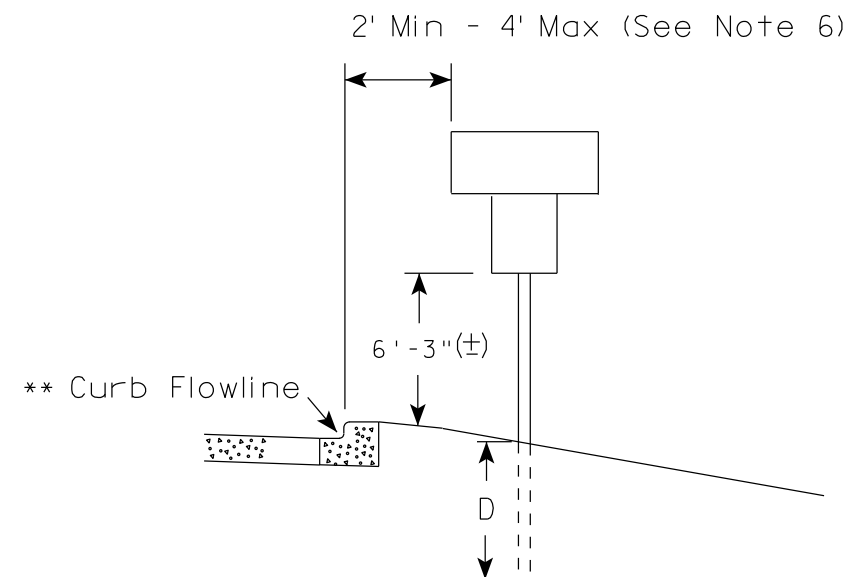
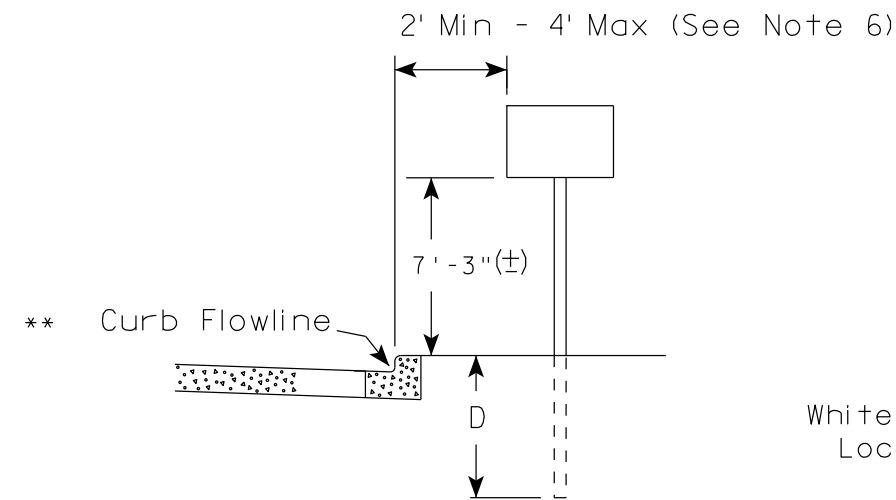
APPROVED

3-2014
DATE

FHWA

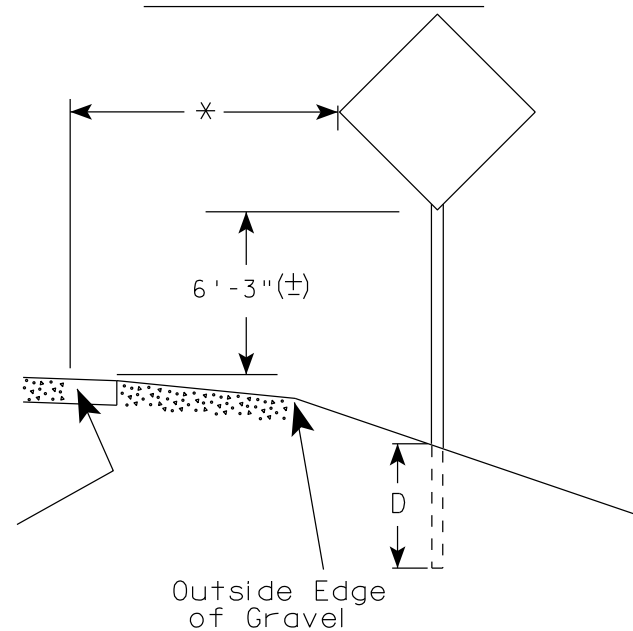
/S/ Travis Fettes
STATE TRAFFIC ENGINEER OF DESIGN

URBAN AREA

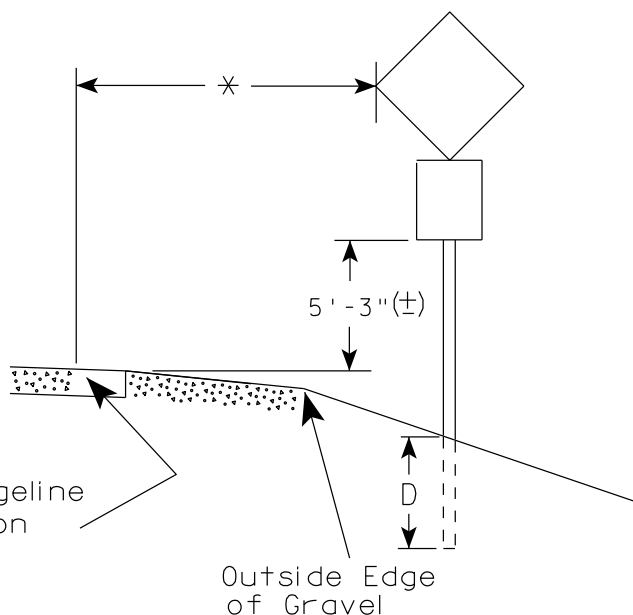


White Edgeline Location

RURAL AREA (See Note 2)



White Edgeline Location



Outside Edge of Gravel

GENERAL NOTES

1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

* * 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

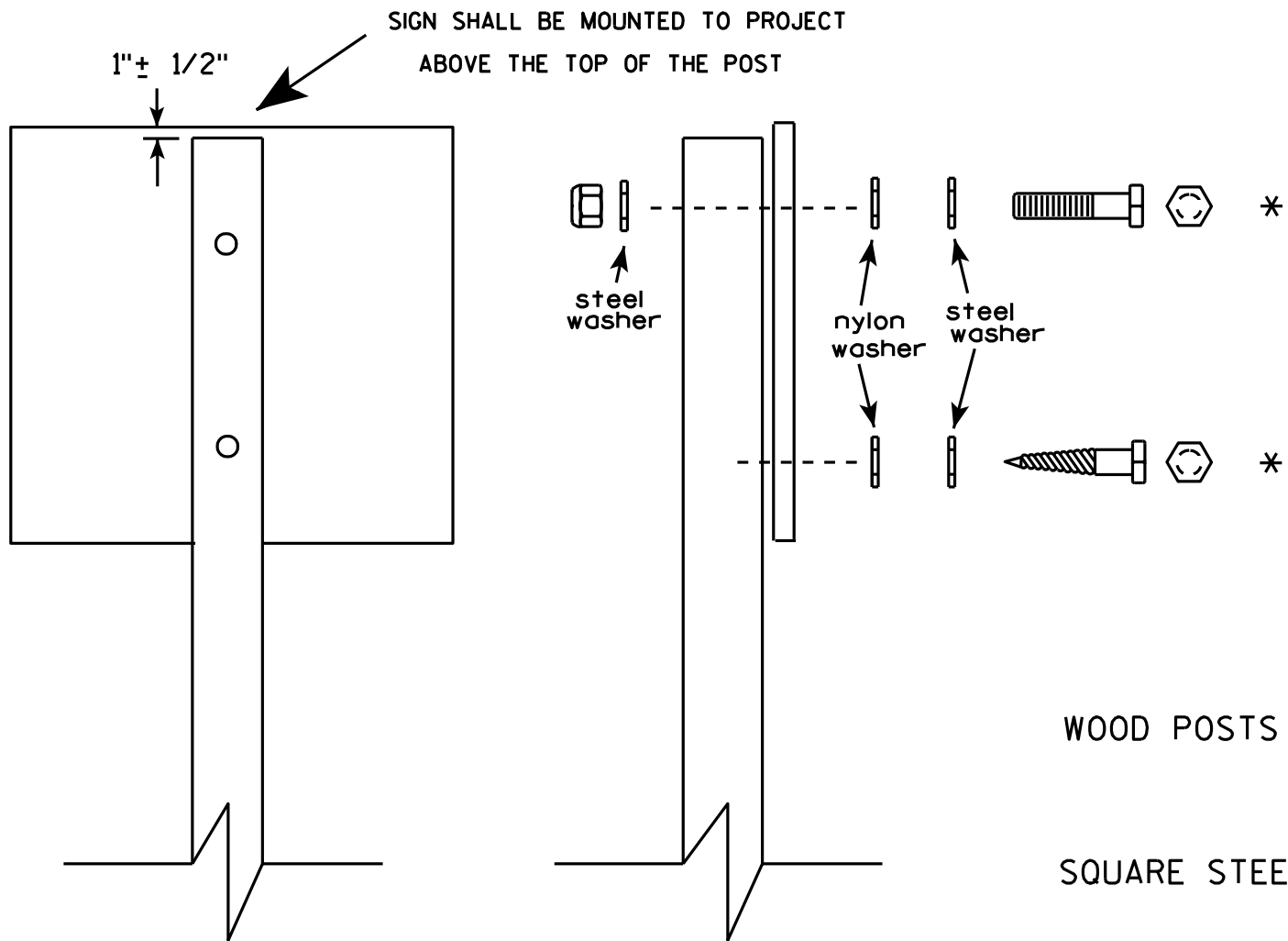
PROJECT NO: 8880-00-70

HWY: DIVISION

COUNTY: CLARK

SHEET NO:

E

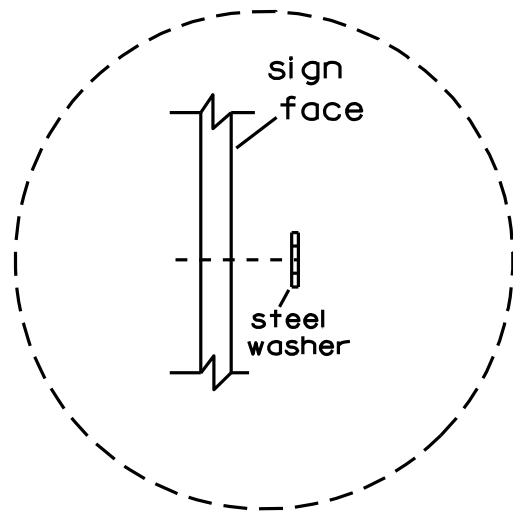


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- 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.

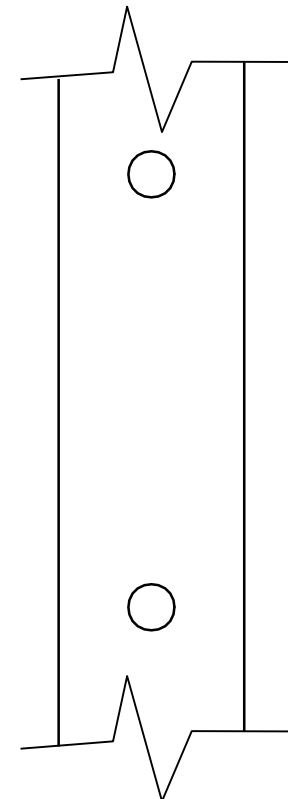
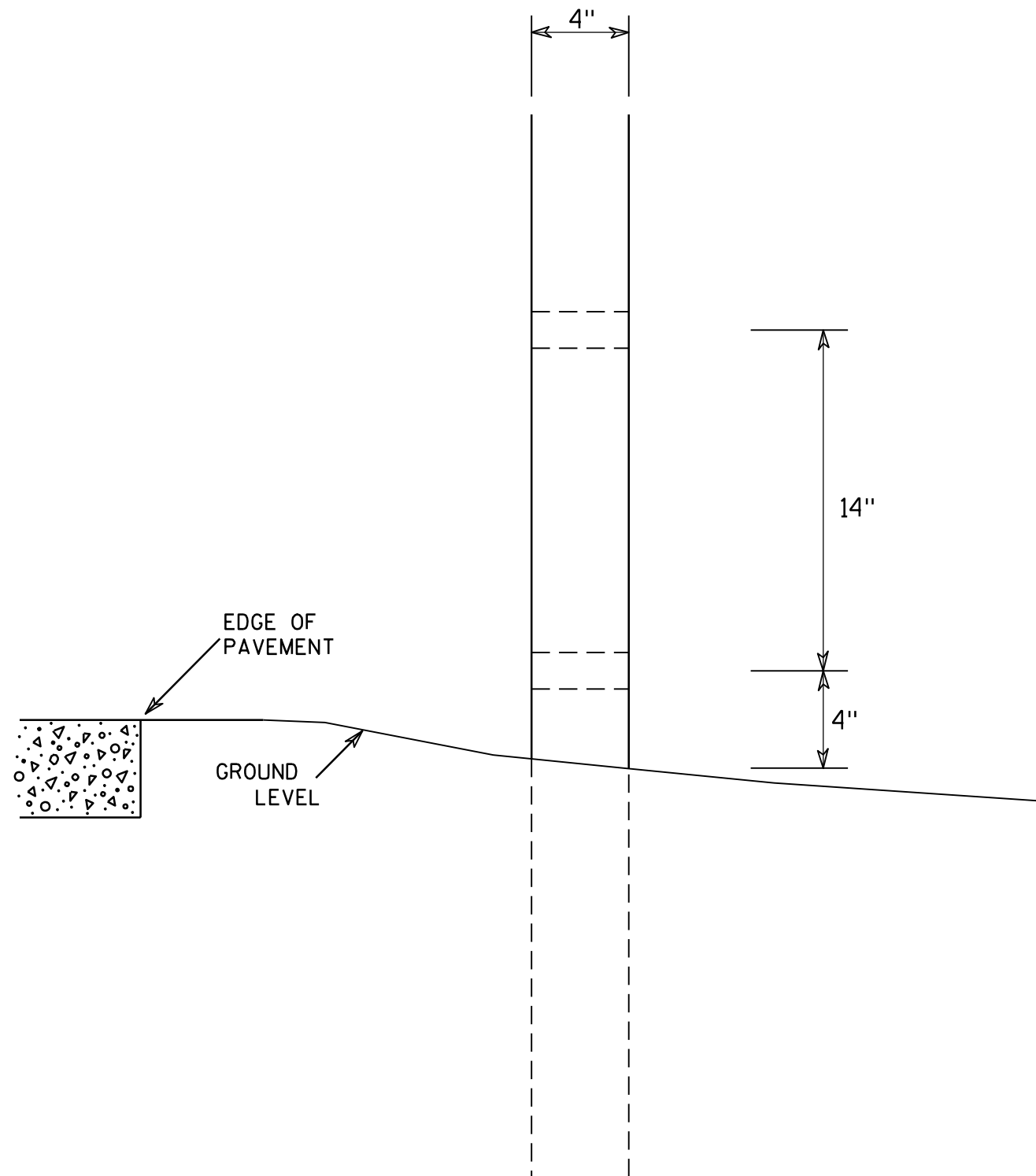
- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 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 for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7



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

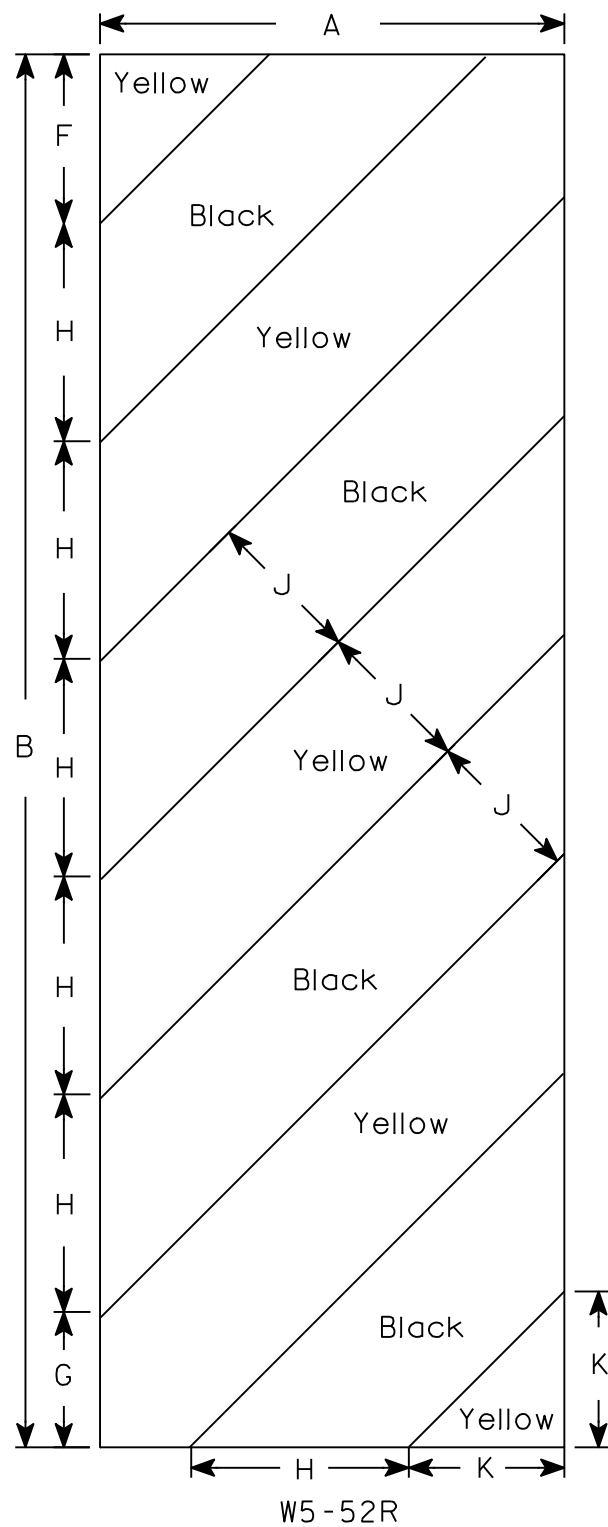
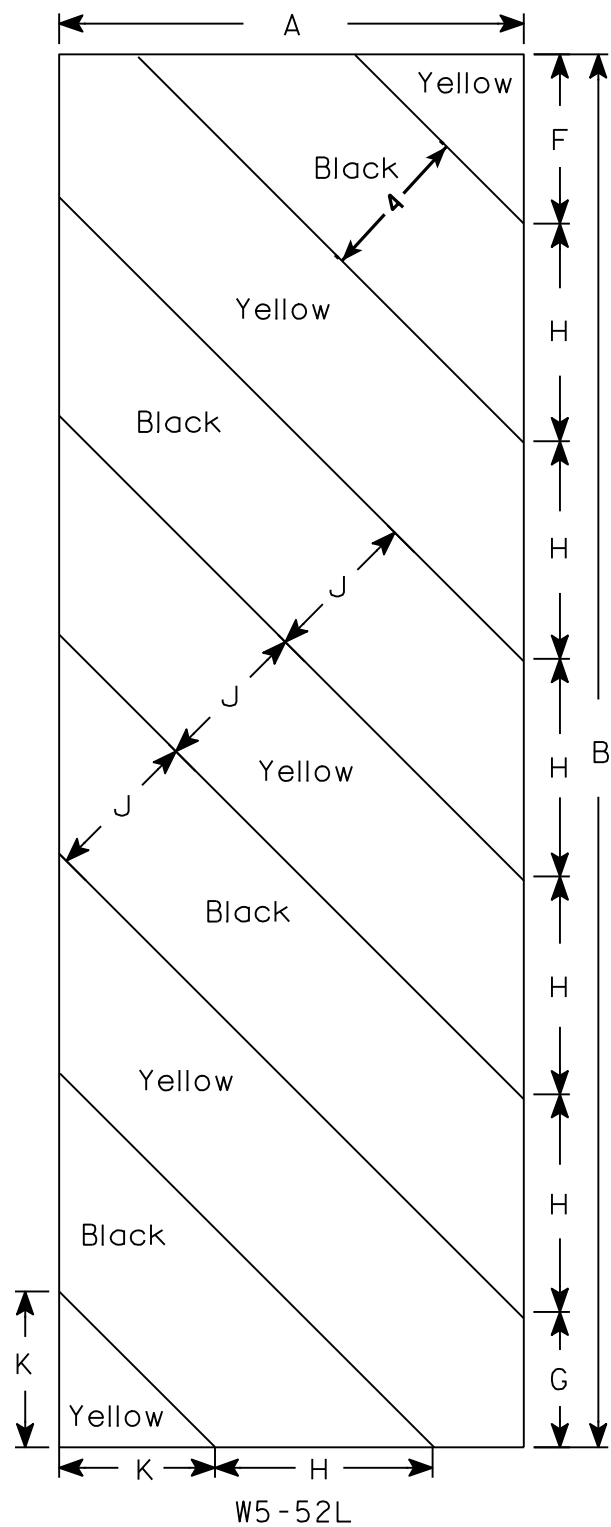
PROJECT NO: 8880-00-70

HWY: DIVISION

COUNTY: CLARK

SHEET NO:

E



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. 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				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
2M	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
3	18	54				6	5 1⁄2	8 1⁄2	45°	6	6 5⁄16																6.75
4																											
5																											

STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

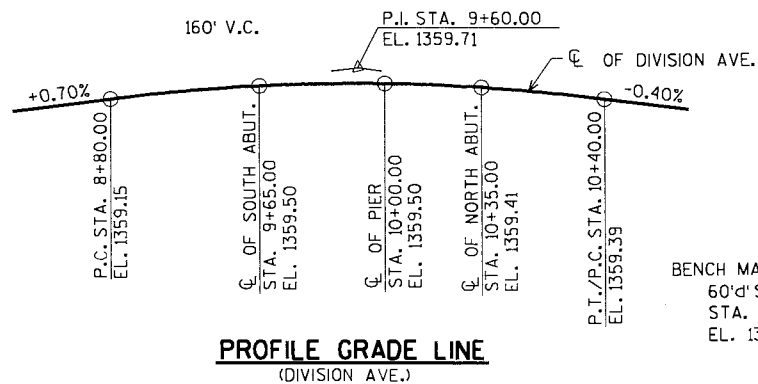
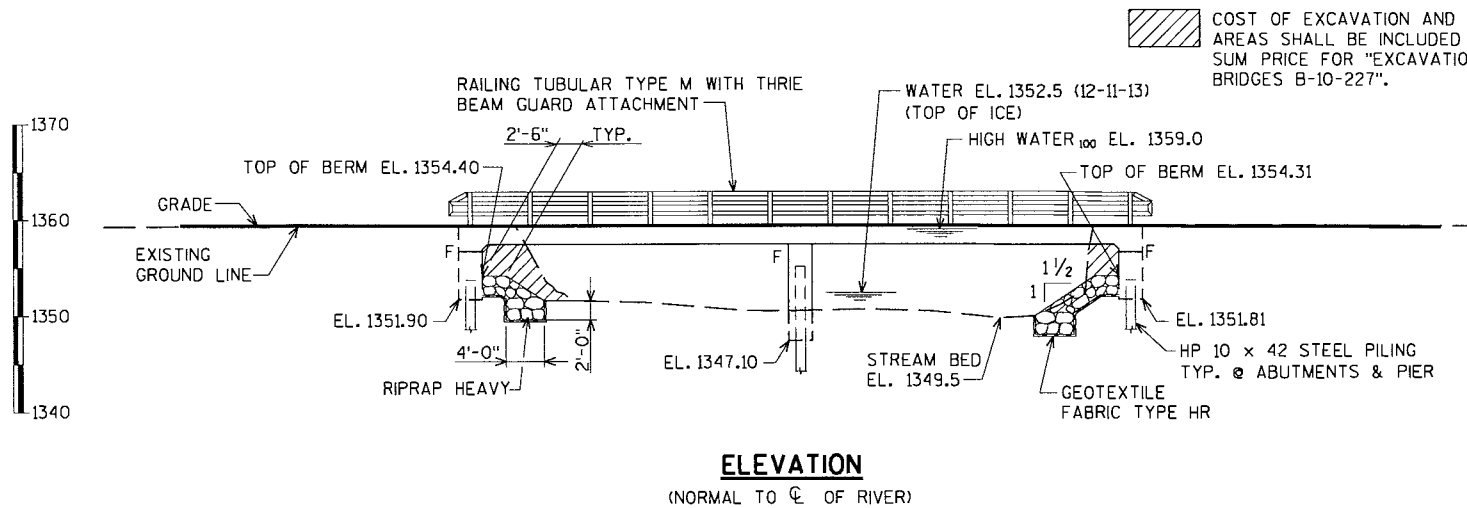
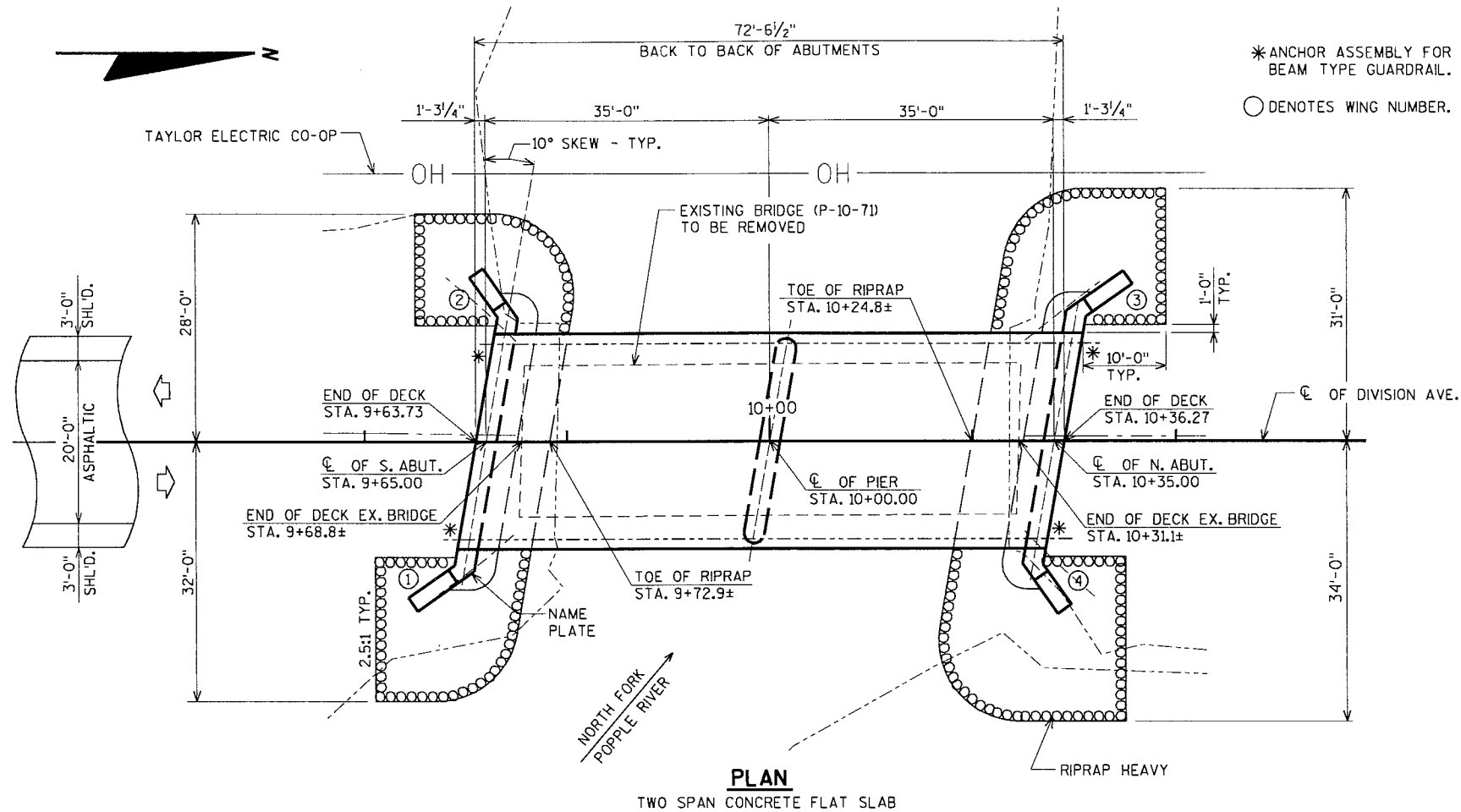
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

\$PRJNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave+BRIDGE+420916 gp.dgn

DATE: _____
DATE: _____
DATE: _____
CHECKED BY: _____
BACK CHECKED BY: _____
CORRECTED BY: _____

8

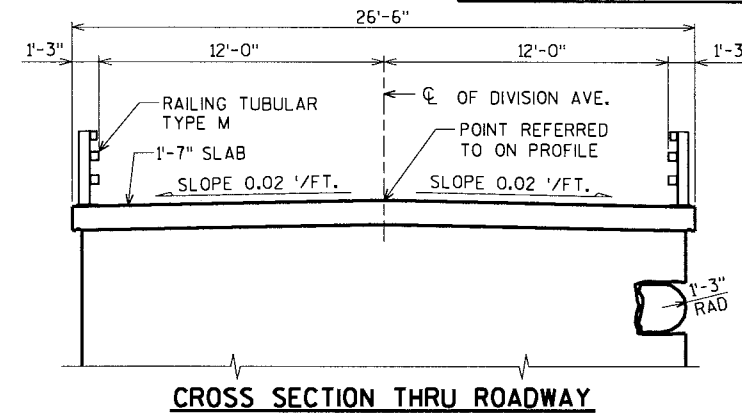


LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT WING 1 DETAILS
6. SOUTH ABUTMENT WING 2 DETAILS & BILL OF BARS
7. NORTH ABUTMENT
8. NORTH ABUTMENT WING 3 DETAILS
9. NORTH ABUTMENT WING 4 DETAILS & BILL OF BARS
10. PIER
11. SUPERSTRUCTURE
12. SUPERSTRUCTURE DETAILS
13. RAILING TUBULAR TYPE M

STATE PROJECT NUMBER

8880-00-70



DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.33
OPERATING RATING FACTOR: 1.73
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 240 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 * / S.F.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY { SUPERSTRUCTURE f'_c = 4,000 p.s.i.
ALL OTHER f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) f_y = 60,000 p.s.i.

HYDRAULIC DATA:

100 YEAR FLOOD

DRAINAGE AREA = 11.9 sq. mi.
WATERWAY AREA = 380 sq. ft.
V = 4.3 f.p.s.

FREQUENCY OF OVERTOPPING

O_{25} = 1,475 c.f.s.
WATER SURFACE EL. 1358.3

Q_{100} = 1,940 c.f.s. { BRIDGE = 1,624 c.f.s.
OVERFLOW = 316 c.f.s.

HIGH WATER₁₀₀ EL. 1359.0

HIGH WATER₂ EL. 1357.0

SCOUR CRITICAL CODE = 5

NAVD 88 DATUM

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 115 TONS * PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 40'-0".

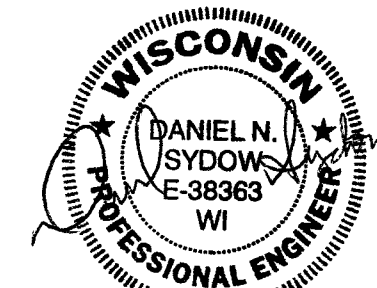
PIER TO BE SUPPORTED ON HP 10 x 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS * PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 40'-0".

*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 DRIVEN PILE CAPACITY.

TRAFFIC DATA:

A.D.T. = <100 (2015)
A.D.T. = <100 (2035)
R.D.S. = 50 M.P.H.

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY AYRES ASSOCIATES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED <i>William C. Dreher</i> KAR 11/20/14 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-10-227			
DIVISION AVE. OVER NORTH FORK POPPLE RIVER			
COUNTY	CLARK	TOWN/CITY/VILLAGE	MAYVILLE
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	KLW	DESIGN CK'D.	CLW
DRAWN BY	CLW	PLANS CK'D.	DNS
GENERAL PLAN			SHEET 1 OF 13



BRIDGE OFFICE CONTACT:

WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:

DAN SYDOW
(715)-834-3161

\$PRNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave\BRIDGE\420916 gp.dgn

STATE PROJECT NUMBER

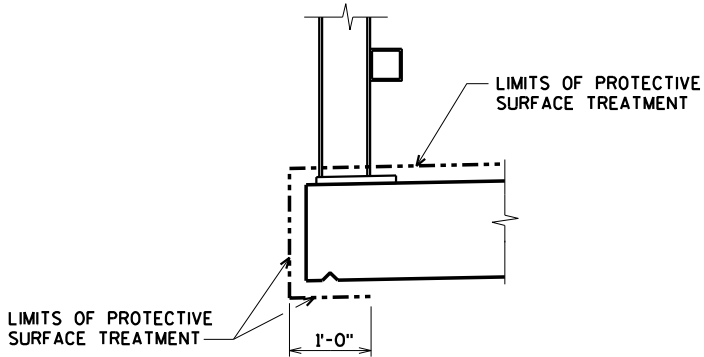
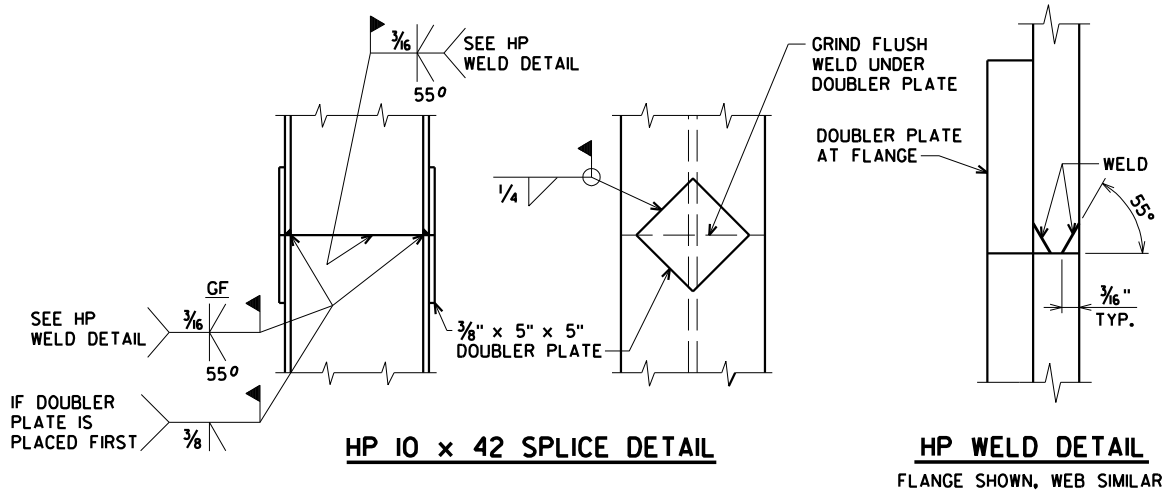
8880-00-70

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	PIER	N. ABUT.	SUPER.	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-----	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-10-227	LS	-----	-----	-----	-----	1
210.0100	BACKFILL STRUCTURE	CY	80	-----	80	-----	160
502.0100	CONCRETE MASONRY BRIDGES	CY	23	25	23	117	188
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	255	255
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,030	1,150	2,030	-----	5,210
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	710	50	710	22,810	24,280
513.4060	RAILING TUBULAR TYPE M B-10-227	LS	-----	-----	-----	-----	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	-----	9	-----	18
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	200	240	200	-----	640
606.0300	RIPRAP HEAVY	CY	70	-----	90	-----	160
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	65	-----	65	-----	130
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	140	-----	180	-----	320
	NON-BID ITEMS						
	FILLER	SIZE	-----	-----	-----	-----	1/2" & 3/4"

GENERAL NOTES

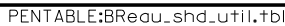
DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.
THE EXISTING STRUCTURE, P-10-71, TO BE REMOVED, IS A SINGLE SPAN STEEL THRU GIRDER BRIDGE, 62.3 FT. LONG WITH A 18.7 FT. CLEAR ROADWAY WIDTH.
AT BACKFACE OF ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.
PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.



PROTECTIVE SURFACE TREATMENT DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY	CLS	PLANS CK'D.	JCK
QUANTITIES AND NOTES			SHEET 2 OF 13

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com



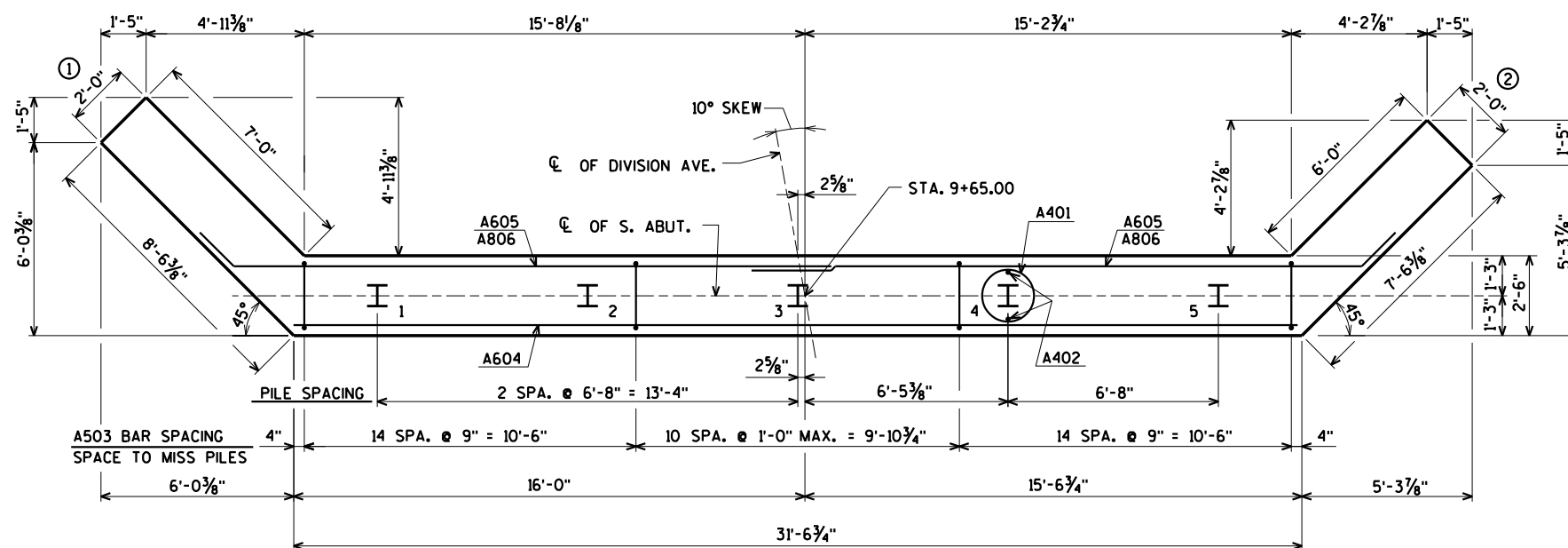
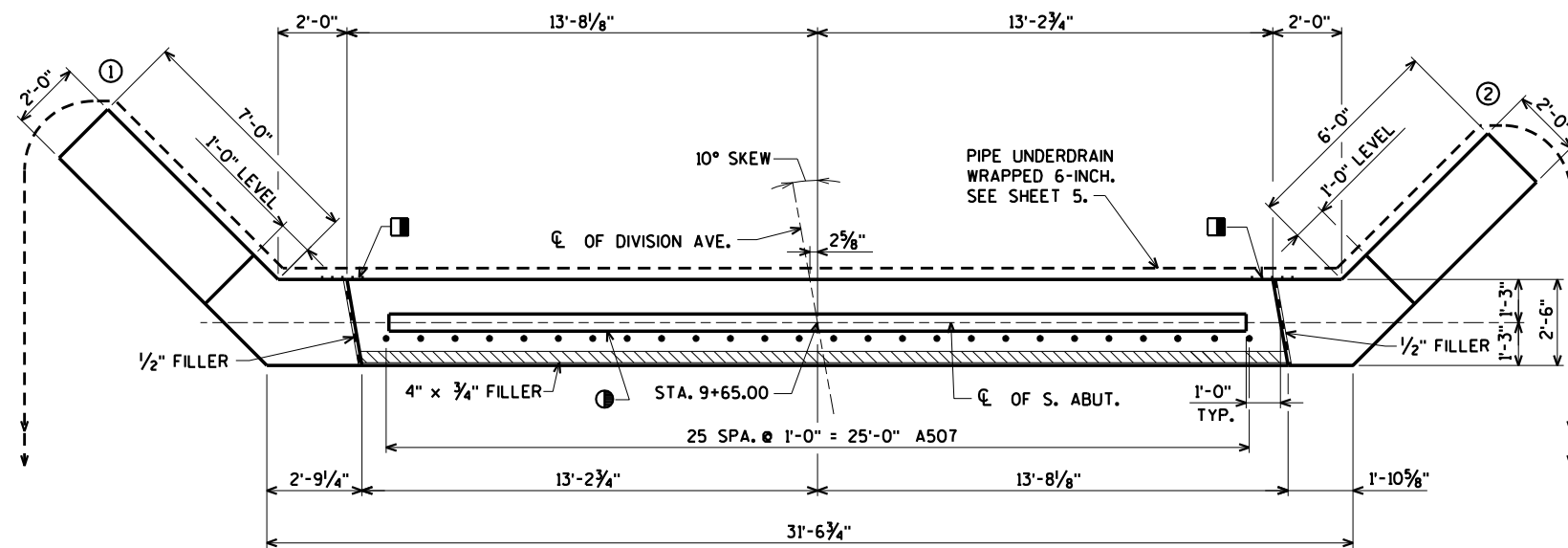
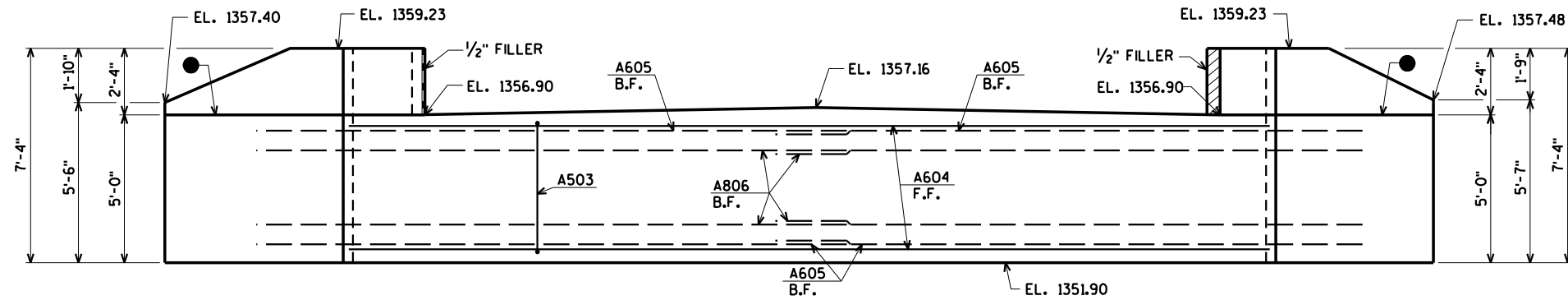
8

\$PRNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave\BRIDGE\420916 sa.dgn

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF
1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT
SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

STATE PROJECT NUMBER

8880-00-70



- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
 - ① KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".
 - VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.
- FOR PILE SPlice DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE

WORK THIS SHEET WITH SHEETS 5 & 6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY		CLS	PLANS CK'D. JCK
SOUTH ABUTMENT		SHEET 4 OF 13	

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com



RODENT SHIELD DETAIL

- F.F. DENOTES FRONT FACE

3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

WORK THIS SHEET WITH SHEETS 4 & 6			
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY		CLS	PLANS CK'D. JCK
SOUTH ABUTMENT WING 1 DETAILS		SHEET 5 OF 13	

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	710* COATED 2,030* UNCOATED
							LOCATION
A401		5	28-0	X			BODY @ PILES
A402		10	2-3				BODY @ PILES
A503		39	13-8	X			BODY VERT.
A604		9	31-4				BODY HORIZ. F.F.
A605		4	20-10	X			BODY HORIZ. B.F.
A806		14	21-11	X			BODY HORIZ. B.F.
A507	X	26	2-0				BODY DOWELS
A408	X	16	8-5	X		⊗	WING 1 VERT. E.F.
A409	X	4	9-5	X			WING 1 VERT. E.F.
A510	X	5	9-9	X			WING 1 HORIZ. F.F.
A611	X	6	11-4	X			WING 1 HORIZ. B.F.
A412	X	2	8-3				WING 1 HORIZ. E.F.
A413	X	2	6-6				WING 1 HORIZ. E.F.
A414	X	2	4-5				WING 1 HORIZ. E.F.
A415	X	2	8-5	X			WING 1 DIAG. E.F.
A416	X	4	9-0	X			WING 1 HORIZ.
A417	X	14	3-5				WINGS 1 & 2 VERT.
A418	X	14	8-6	X		⊗	WING 2 VERT. E.F.
A419	X	4	9-5	X			WING 2 VERT. E.F.
A520	X	5	8-9	X			WING 2 HORIZ. F.F.
A621	X	6	10-4	X			WING 2 HORIZ. B.F.
A422	X	2	7-3				WING 2 HORIZ. E.F.
A423	X	2	6-0				WING 2 HORIZ. E.F.
A424	X	2	4-2				WING 2 HORIZ. E.F.
A425	X	2	7-5	X			WING 2 DIAG. E.F.
A426	X	4	8-3	X			WING 2 HORIZ.

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

BAR NO.	DIM. "A"	DIM. "B"
A605	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A806	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A510	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A611	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A415	5'-9"	1'-9"
A520	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A621	1'-0 $\frac{3}{4}$ "	1'-0 $\frac{3}{4}$ "
A425	4'-9"	1'-9"

BAR MARK	NO REQ'D.	LENGTH
A408	2 SERIES OF 8	7' - 7" TO 9' - 3"
A418	2 SERIES OF 7	7' - 8" TO 9' - 4"

WORK THIS SHEET WITH SHEETS 4 & 5

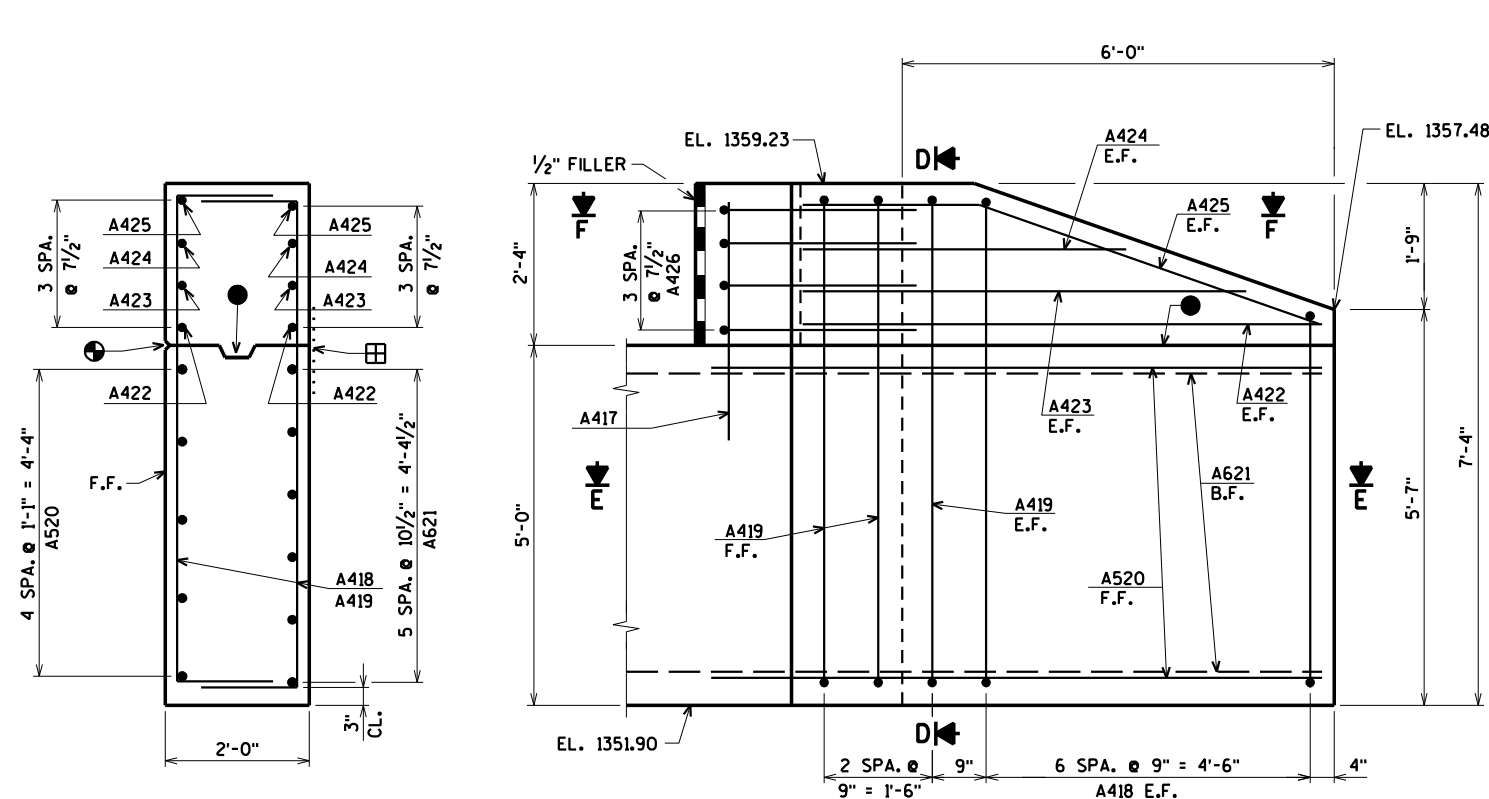
NO.	DATE	REVISION	BY
-----	------	----------	----

STRUCTURE B-10-227

	DRAWN BY	CLS	PLANS CK'D.	JCK
--	-------------	-----	----------------	-----

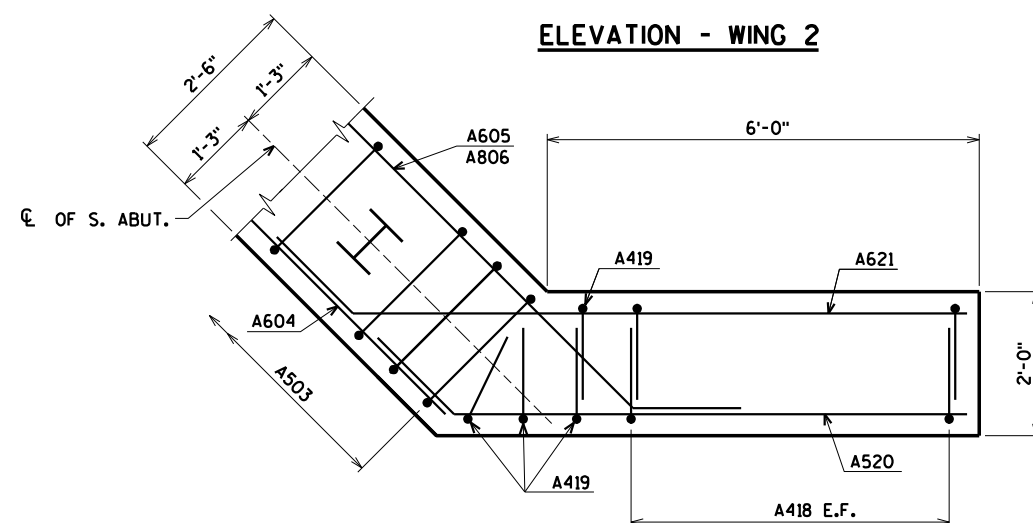
SOUTH ABUTMENT
WING 2 DETAILS
& BILL OF BARS

SHEET 6 OF 13

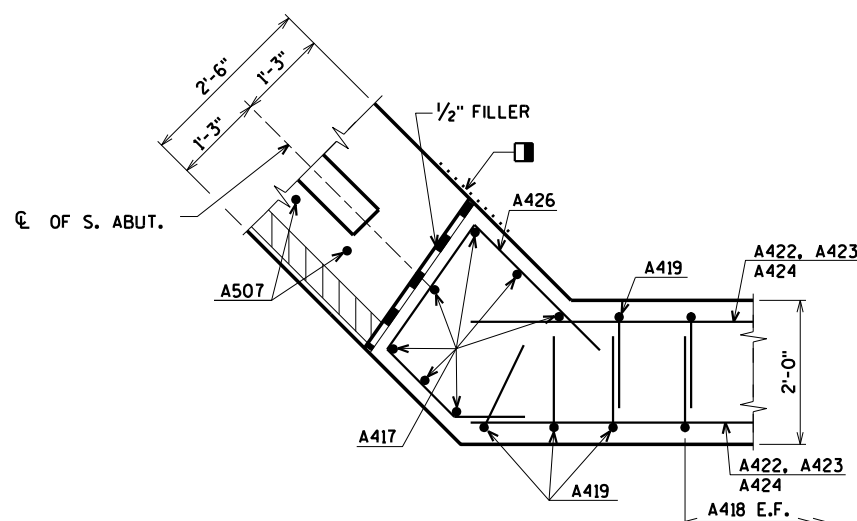


SECTION D

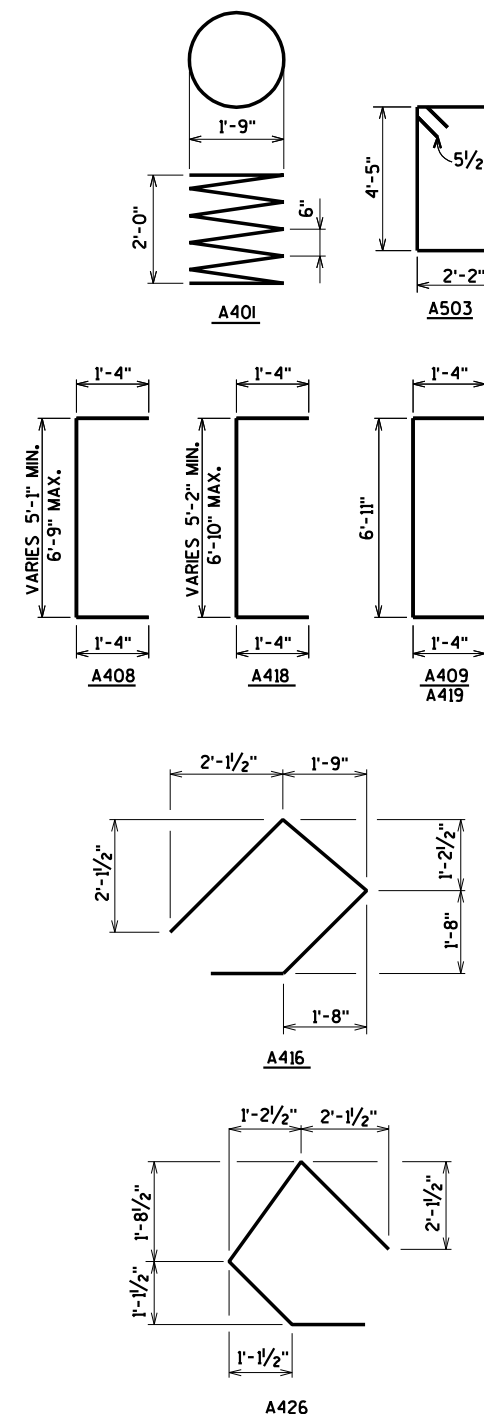
ELEVATION - WING 2



SECTION E



SECTION F



- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

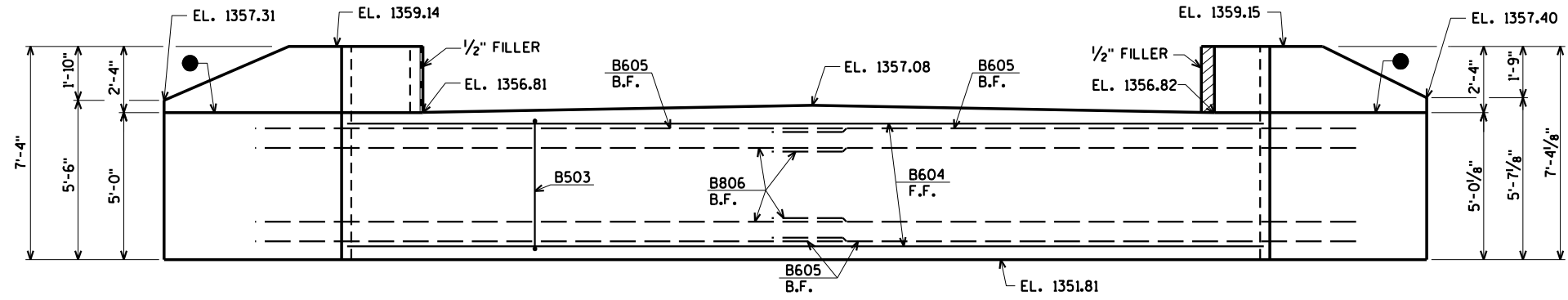
F.F. DENOTES FRONT FACE

\$PRNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave\BRIDGE\420916 na.dgn

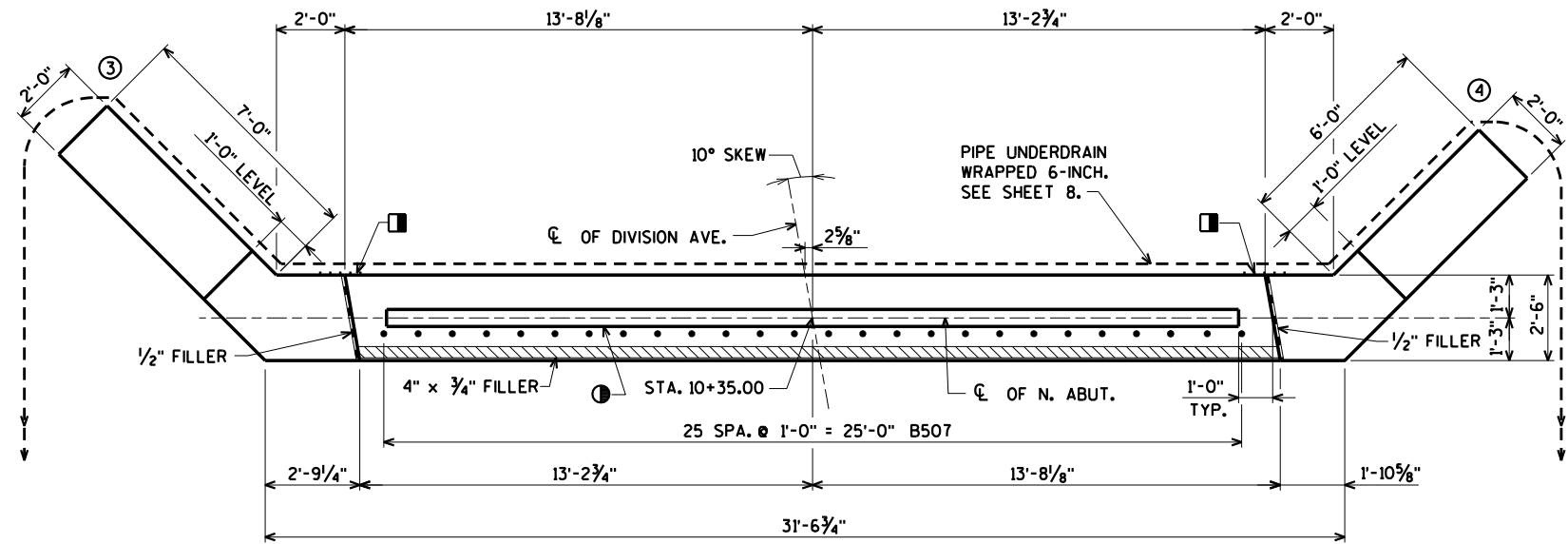
NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF
1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT
SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

STATE PROJECT NUMBER

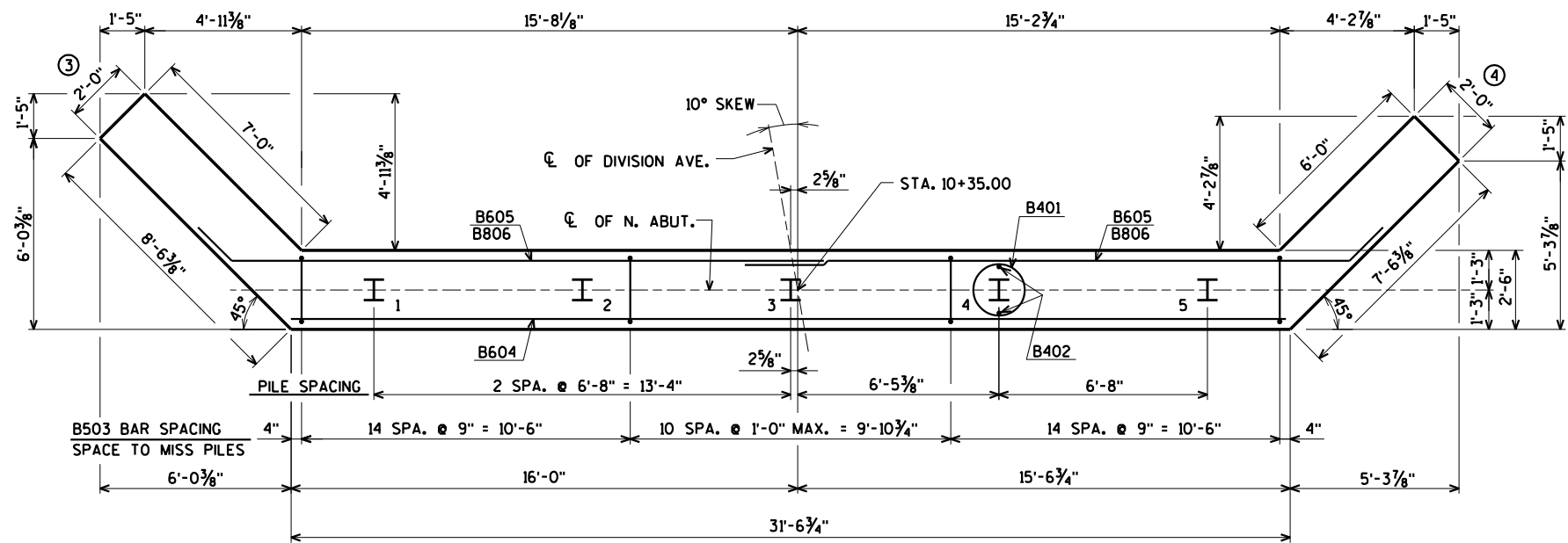
8880-00-70



ELEVATION
(LOOKING NORTH)



PLAN



PILE LAYOUT

- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
 - ① KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".
 - VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.
- FOR PILE SPLICE DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE

WORK THIS SHEET WITH SHEETS 8 & 9

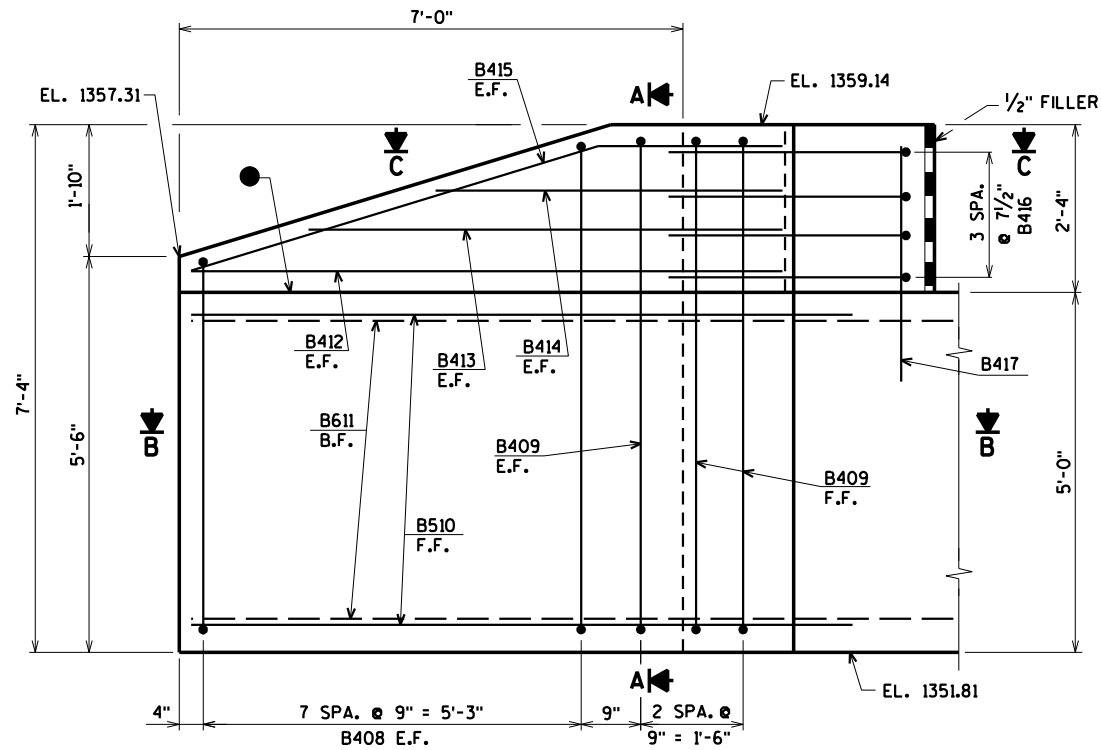
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY		CLS	PLANS CK'D. JCK
NORTH ABUTMENT		SHEET 7 OF 13	

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

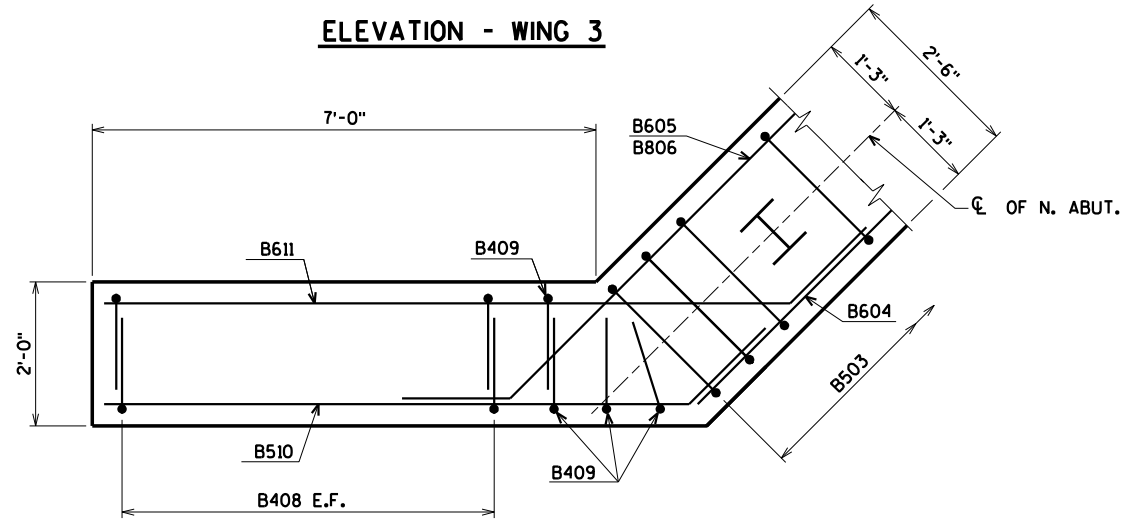
\$PRNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave\BRIDGE\420916 na.dgn

STATE PROJECT NUMBER

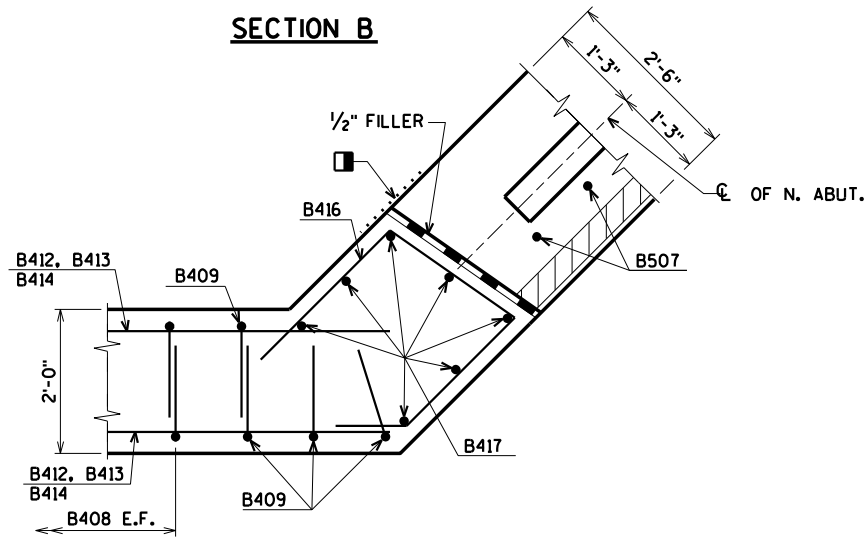
8880-00-70



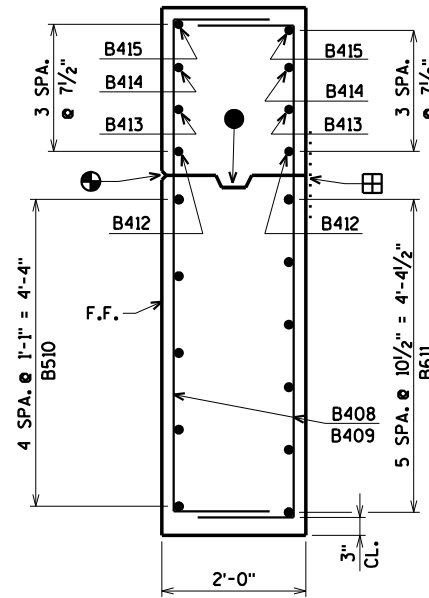
ELEVATION - WING 3



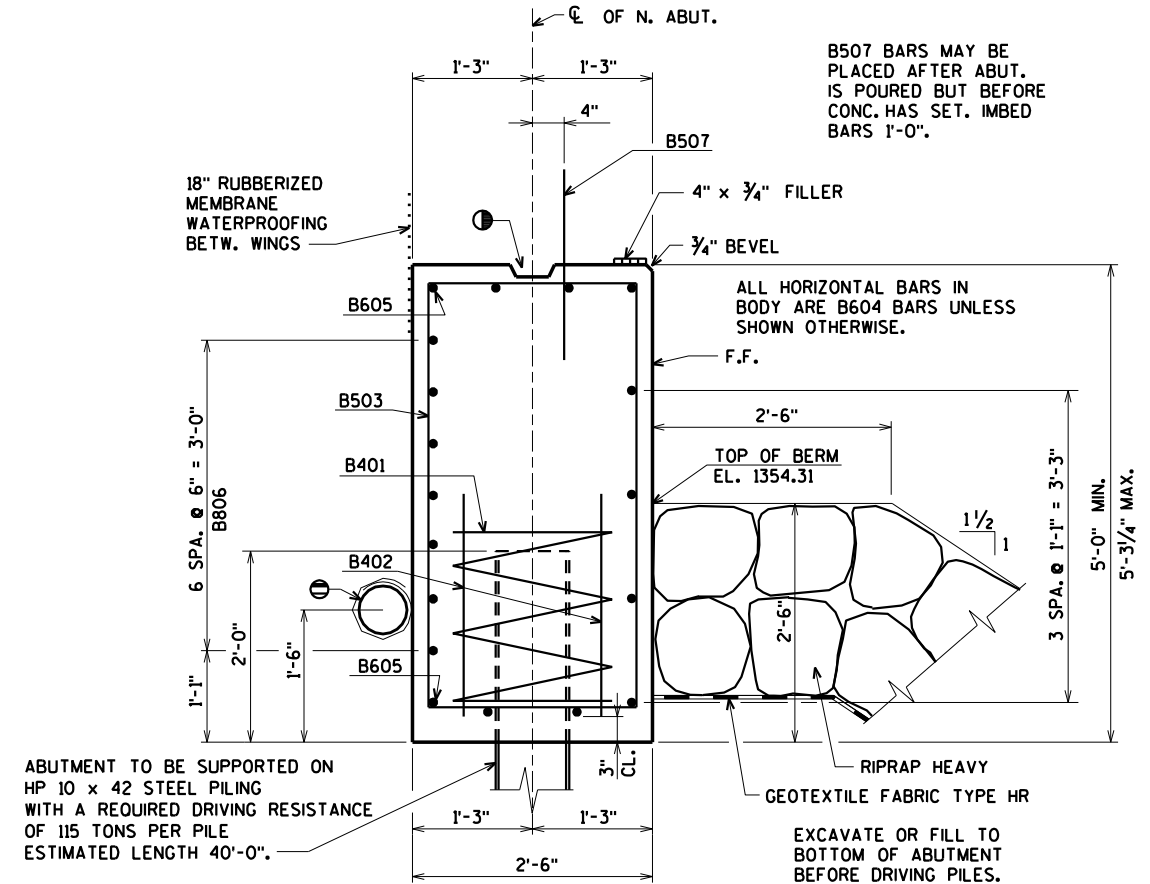
SECTION B



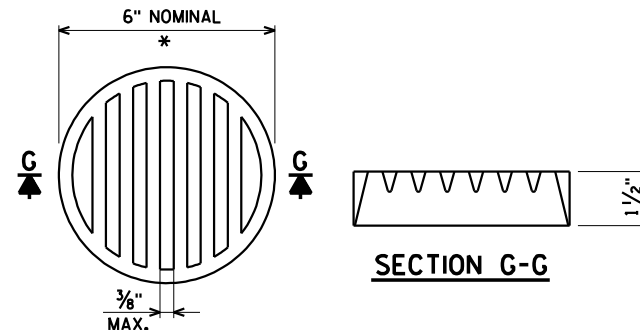
SECTION C



SECTION A



TYPICAL SECTION THRU BODY



* 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 PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN 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 SHEET METAL SCREWS.

RODENT SHIELD DETAIL

PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

3/4" V-GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPlice DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

WORK THIS SHEET WITH SHEETS 7 & 9

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY		CLS	PLANS CK'D. JCK
NORTH ABUTMENT WING 3 DETAILS			SHEET 8 OF 13

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	710* COATED 2,030* UNCOATED
							LOCATION
B401		5	28-0	X			BODY @ PILES
B402		10	2-3				BODY @ PILES
B503		39	13-8	X			BODY VERT.
B604		9	31-4				BODY HORIZ. F.F.
B605		4	20-10	X			BODY HORIZ. B.F.
B806		14	21-11	X			BODY HORIZ. B.F.
B507	X	26	2-0				BODY DOWELS
B408	X	16	8-5	X		⊗	WING 3 VERT. E.F.
B409	X	4	9-5	X			WING 3 VERT. E.F.
B510	X	5	9-9	X			WING 3 HORIZ. F.F.
B611	X	6	11-4	X			WING 3 HORIZ. B.F.
B412	X	2	8-3				WING 3 HORIZ. E.F.
B413	X	2	6-6				WING 3 HORIZ. E.F.
B414	X	2	4-5				WING 3 HORIZ. E.F.
B415	X	2	8-5	X			WING 3 DIAG. E.F.
B416	X	4	9-0	X			WING 3 HORIZ.
B417	X	14	3-5				WINGS 3 & 4 VERT.
B418	X	14	8-6	X		⊗	WING 4 VERT. E.F.
B419	X	4	9-5	X			WING 4 VERT. E.F.
B520	X	5	8-9	X			WING 4 HORIZ. F.F.
B621	X	6	10-4	X			WING 4 HORIZ. B.F.
B422	X	2	7-3				WING 4 HORIZ. E.F.
B423	X	2	6-0				WING 4 HORIZ. E.F.
B424	X	2	4-2				WING 4 HORIZ. E.F.
B425	X	2	7-5	X			WING 4 DIAG. E.F.
B426	X	4	8-3	X			WING 4 HORIZ.

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

BAR NO.	DIM. "A"	DIM. "B"
B605	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B806	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B510	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B611	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B415	5'-9"	1'-9"
B520	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B621	1'-0 ³ / ₄ "	1'-0 ³ / ₄ "
B425	4'-9"	1'-0 ³ / ₄ "

BAR MARK	NO REQ'D.	LENGTH
B408	2 SERIES OF 8	7' - 7" TO 9' - 3"
B418	2 SERIES OF 7	7' - 8" TO 9' - 4"

BUNDLE AND TAG EACH SERIES SEPARATELY.

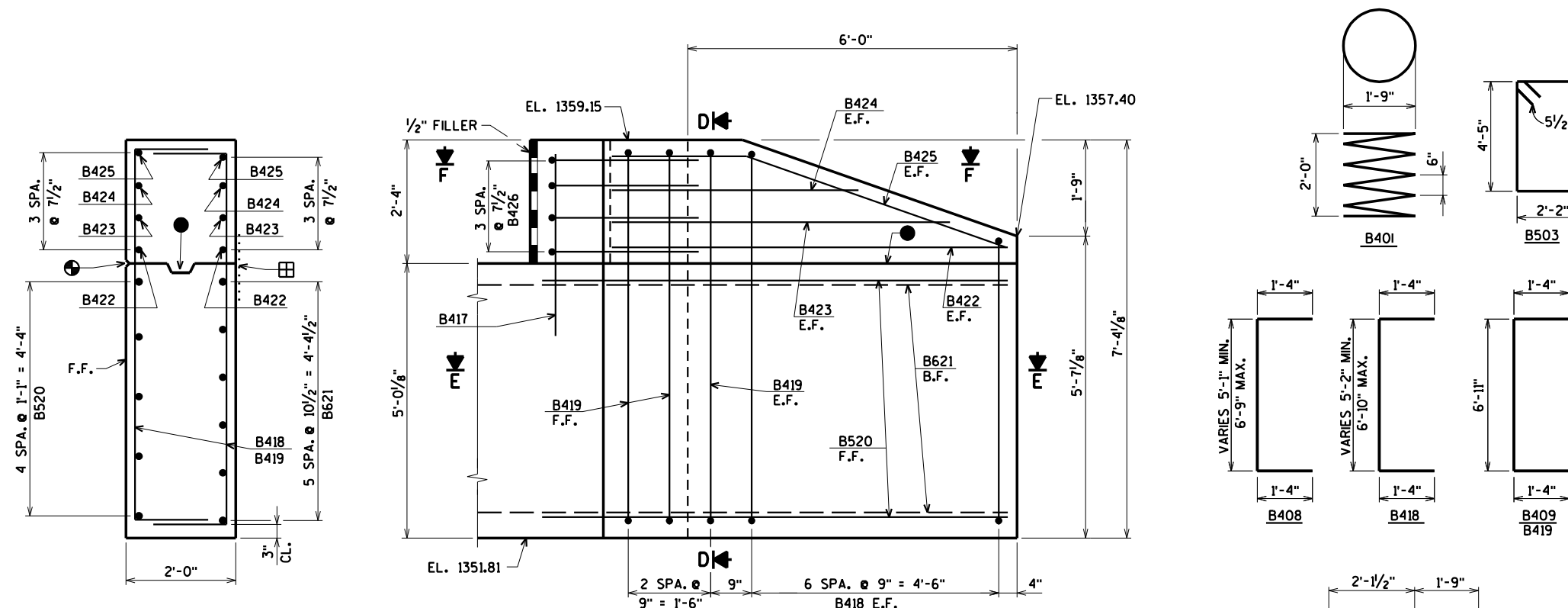
NO.	DATE	REVISION	BY
-----	------	----------	----

STRUCTURE B-10-227

DRAWN BY	CLS	PLANS CK'D	JCK
-------------	-----	---------------	-----

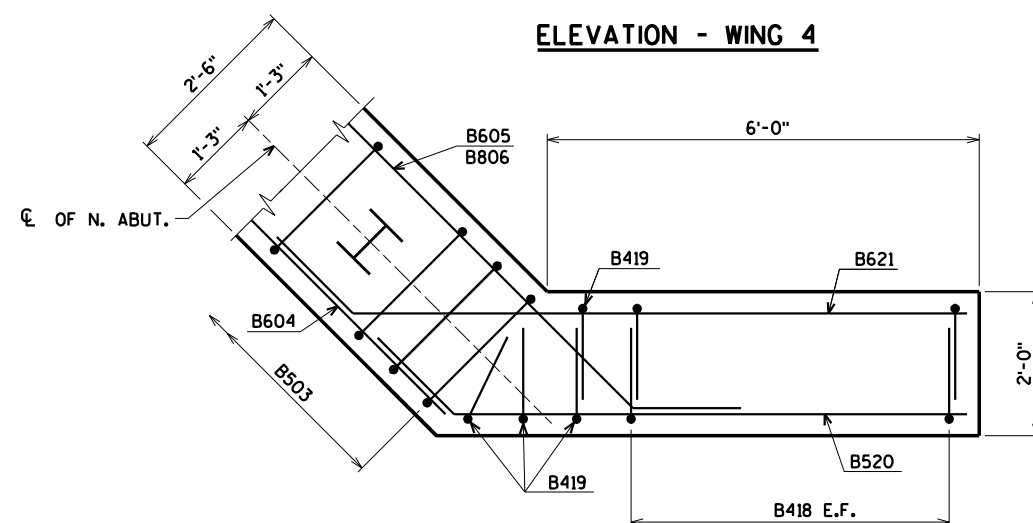
NORTH ABUTMENT
WING 4 DETAILS
& BILL OF BARS

T | SHEET 9 OF 13

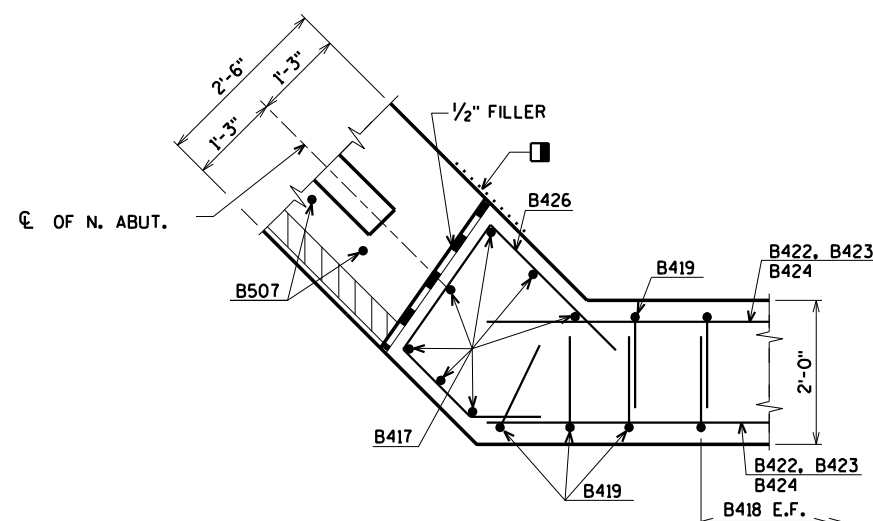


SECTION D

ELEVATION - WING 4



SECTION E



SECTION F

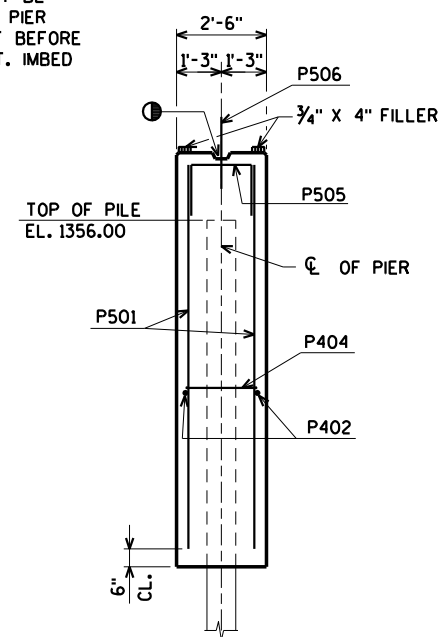
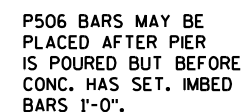
■ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

F.F. DENOTES FRONT FACE

ORIGINAL PLANS PREPARED BY

AVRES
ASSOCIATES

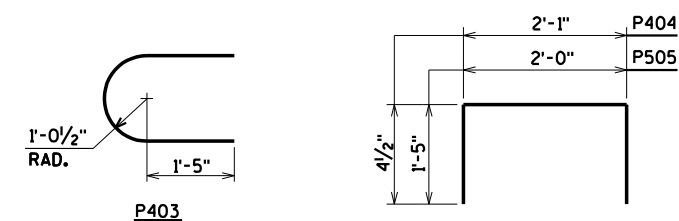
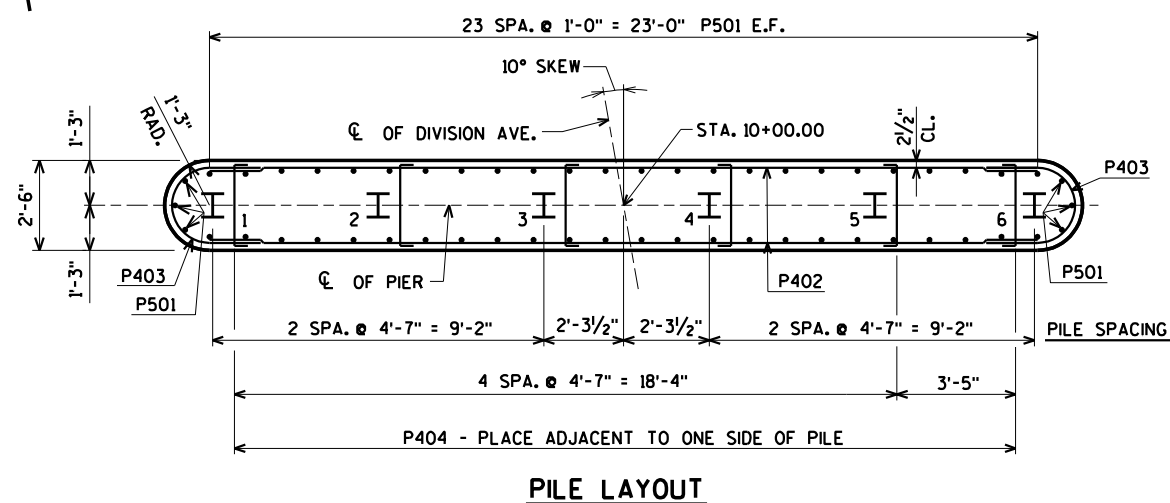
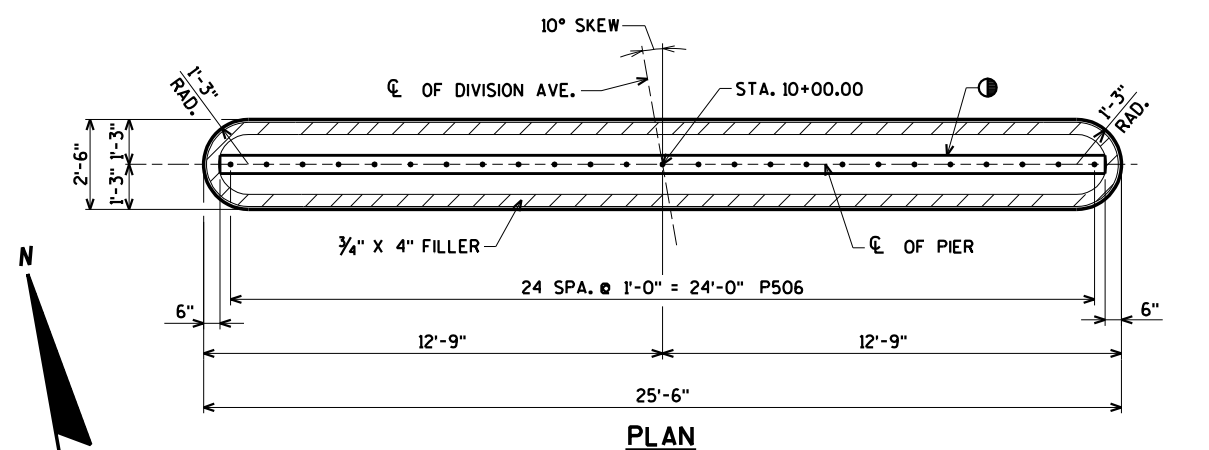
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com



SECTION A

[illegible]

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



● KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

FOR PILE SPLICE DETAIL SEE SHEET 2.

E.F. DENOTES EACH FACE

ORIGINAL PLANS PREPARED BY

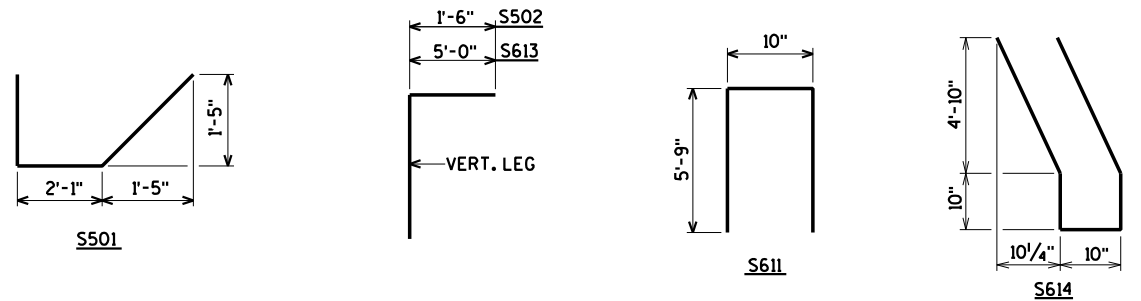
AYRES
ASSOCIATES

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
DRAWN BY		CLS	PLANS CK'D. JCK
PIER		SHEET 10 OF	

[illegible]

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 (+).

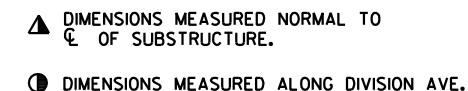


ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

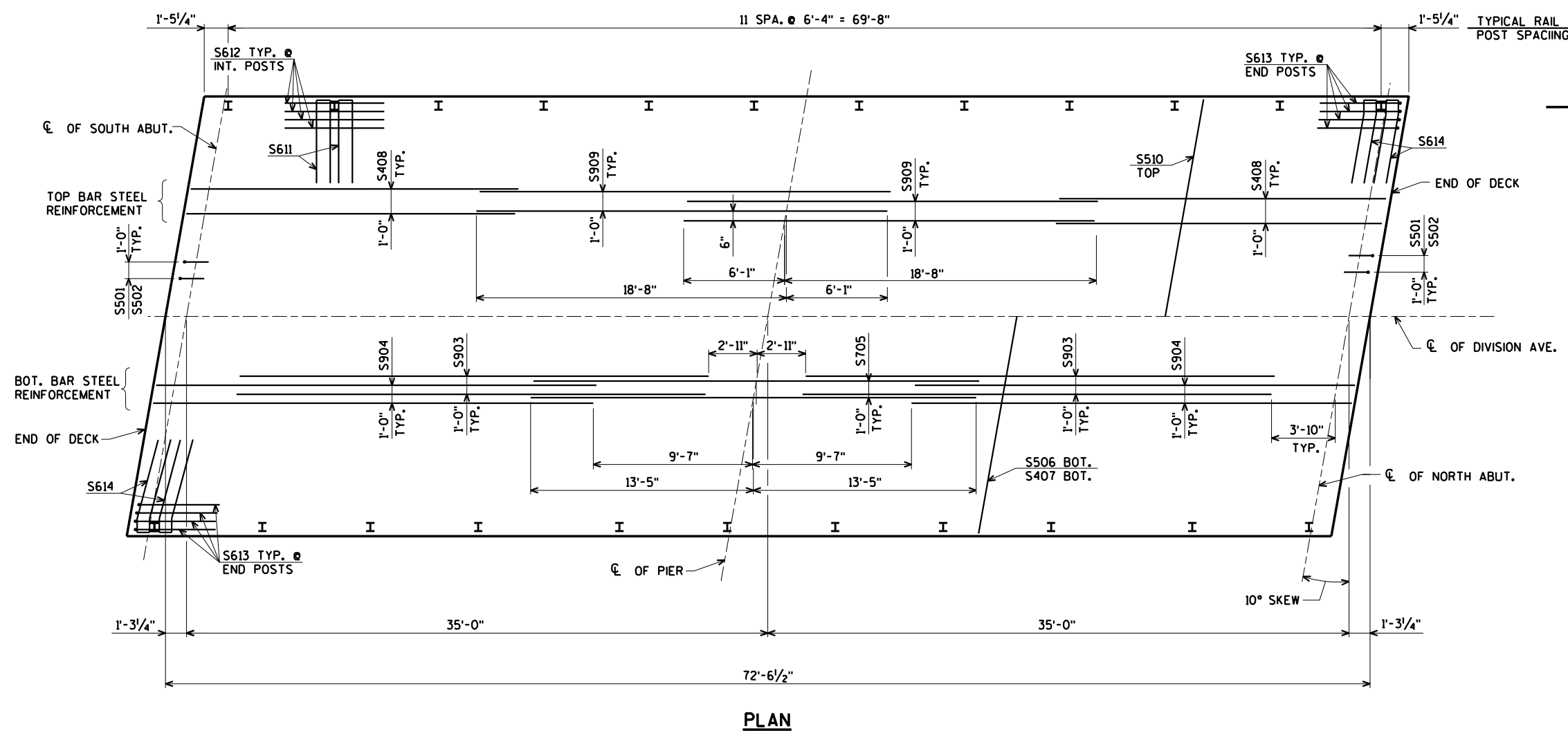
LOCATION	€ OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF PIER	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF N. ABUT.
W. EDGE OF SLAB	1359.23	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.23	1359.23	1359.22	1359.22	1359.21	1359.20	1359.19	1359.18	1359.17	1359.16	1359.15	1359.14
€ OF STRUCTURE	1359.50	1359.50	1359.50	1359.50	1359.51	1359.51	1359.51	1359.50	1359.50	1359.50	1359.50	1359.49	1359.48	1359.48	1359.47	1359.46	1359.45	1359.44	1359.43	1359.42	1359.41
E. EDGE OF SLAB	1359.23	1359.23	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.24	1359.23	1359.23	1359.22	1359.22	1359.21	1359.20	1359.19	1359.19	1359.18	1359.16	1359.15



CAMBER SPANS AS SHOWN TO PROVIDE
FOR DEAD LOAD DEFLECTION & FUTURE
CREEP. CAMBER DOES NOT INCLUDE
ALLOWANCE FOR FORM SETTLEMENT.



PART LONGITUDINAL SECTION



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-227			
		DRAWN BY	CLAS SIFIED
		PLANS CK'D.	JCK
SUPERSTRUCTURE DETAILS		SHEET 12 OF 13	

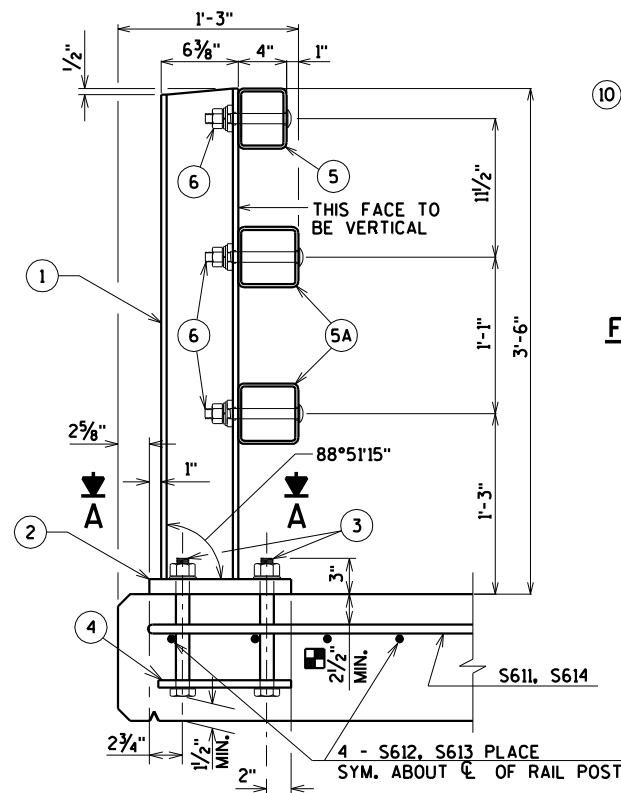
\$PRNAME\$
U:\42-0916.00 - Clark County, Town of Mayville, Division Ave\BRIDGE\420916 M\Rail.dgn

STATE PROJECT NUMBER

8880-00-70

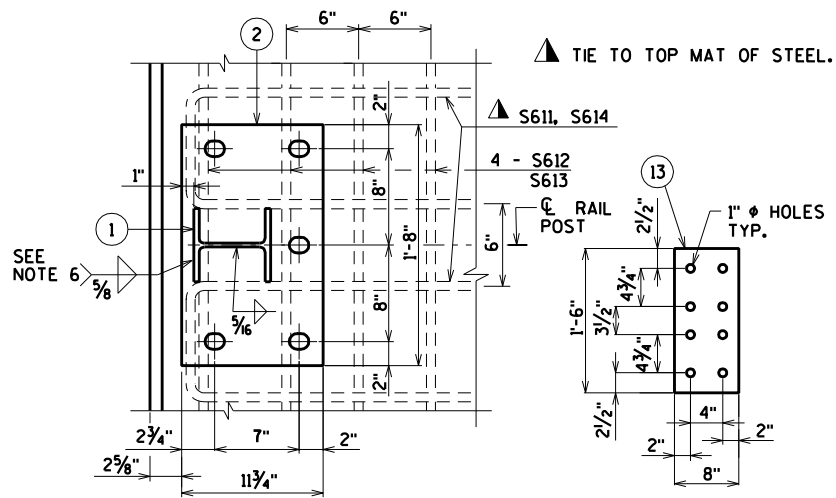
LEGEND

- W6 x 25 WITH 1/8" x 1/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- PLATE 1/4" x 11 3/4" x 1'-8" WITH 1 5/8" x 1 5/8" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- ASTM A449 - 1/6" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. ~~USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 3/4" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTIBILITY.)~~
- 5/8" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1 5/8" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 5A TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 7/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/8" x 1 5/8" x 1 5/8" WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
- 1/2" THK. BACK-UP PLATE WITH 2 - 7/8" x 1/2" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR 7/8" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- 3/8" x 3 5/8" x 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- 3/8" x 2 5/8" x 2'-4" PLATE USED IN NO. 5. 3/8" x 3 5/8" x 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- 7/8" x 1/4" A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE 1 5/8" x 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 1 5/8" x 2 1/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.
- 7/8" DIA. x 1/2" LONG THREADED SHOP WELDED STUDS (2 REQ'D).
- 3/8" x 8" x 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.
- 7/8" DIA. x 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
- 1" x HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES.

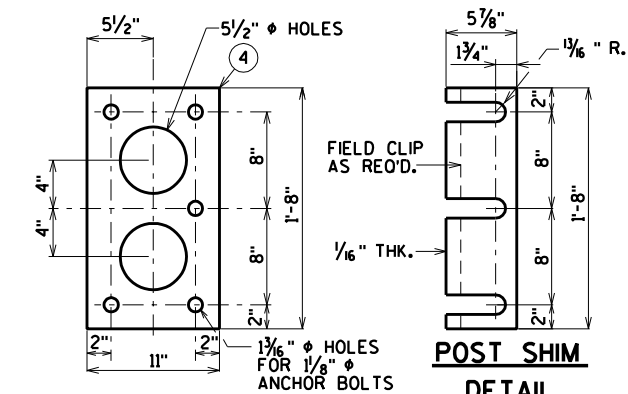


SECTION THRU RAILING ON DECK

PLACE BELOW TOP MAT SLAB REINFORCEMENT.

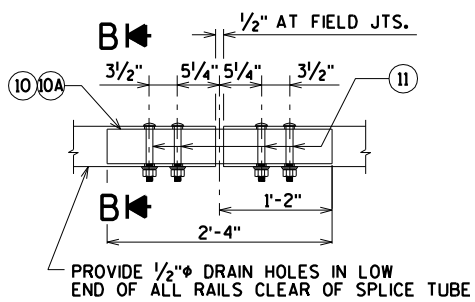


SECTION A

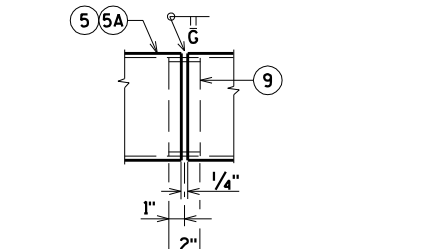


ANCHOR PLATE

(AT RAIL TO DECK CONNECTION)

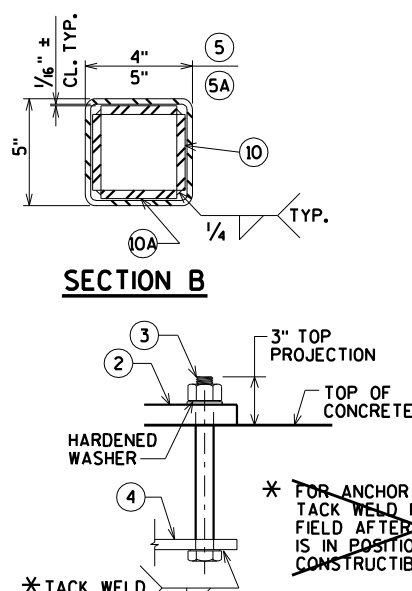


FIELD ERECTION JOINT DETAIL



SHOP RAIL SPICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)

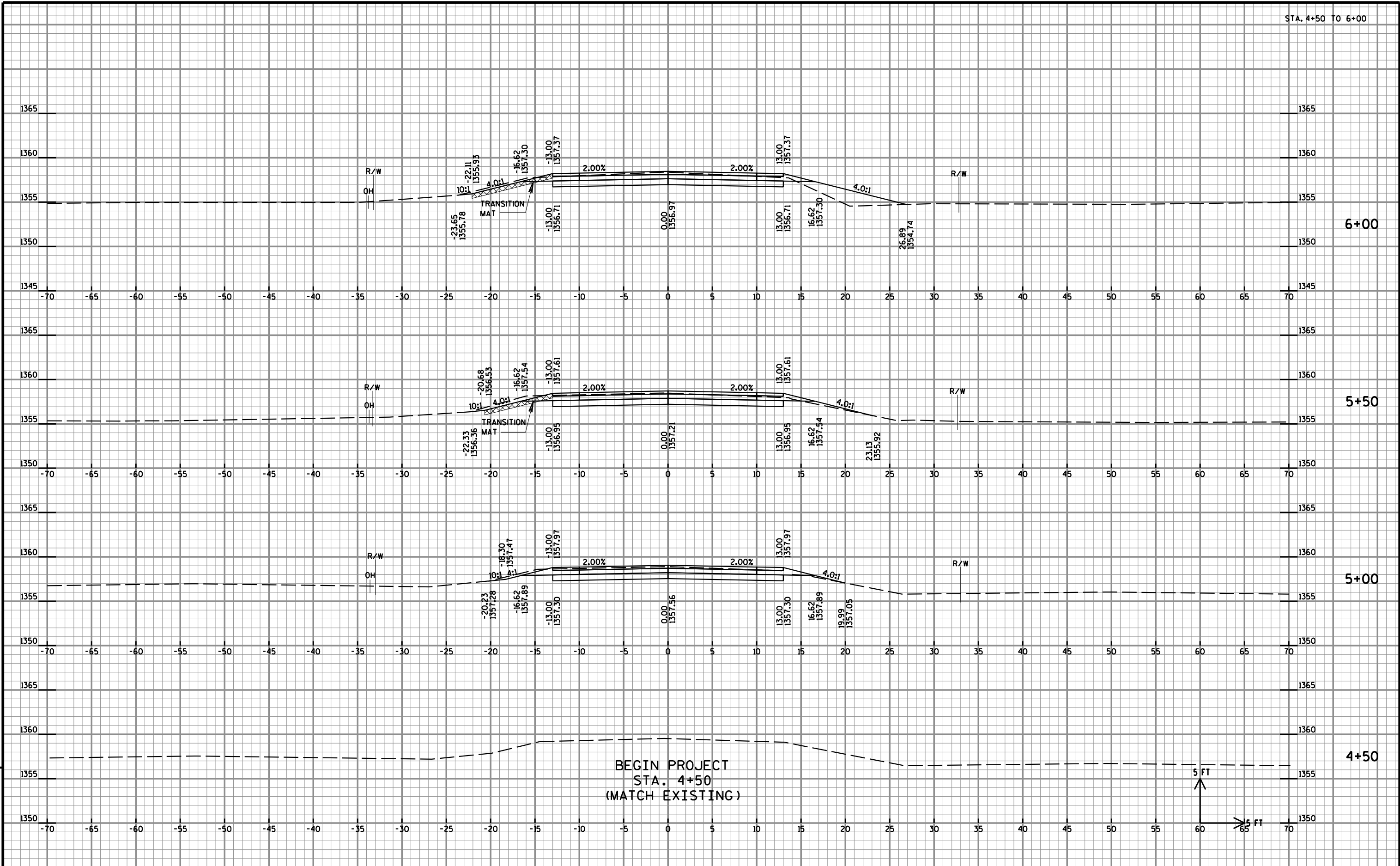


EARTHWORK SUMMARY (CATEGORY 0010)										
DIVISION	STATION	AREA			INCREMENTAL VOLUME			CUMULATIVE VOLUME		
		CUT	SALVAGED/ UNUSEABLE PAVEMENT MATERIAL	FILL	CUT (1)	SALVAGED/ UNUSEABLE PAVEMENT MATERIAL (2)	FILL (3)	CUT (1)	EXPANDED FILL (4)	MASS ORDINATE ±(5)
		SF	SF	SF	CY	CY	CY	1.00 CY	1.30 CY	CY
1	4+50	44	0	0	75	0	0	75	0	75
	5+00	37	0	0	69	0	1	144	1	143
Division Avenue	5+50	38	0	1	72	0	12	216	17	199
	6+00	39	0	12	75	0	25	291	49	242
	6+50	42	0	15	80	0	24	371	81	290
	7+00	45	0	11	77	0	23	448	111	338
	7+50	38	0	13	76	0	32	524	152	372
	8+00	44	0	21	85	0	48	609	215	395
	8+50	49	0	31	88	0	70	697	306	392
	9+00	46	0	45	81	0	78	778	407	371
	9+50	41	0	40	21	0	20	799	433	366
	9+64	41	0	40						
	STRUCTURE (B-10-227)									
	10+36	85	0	35	43	0	18	43	23	20
	10+50	85	0	35	137	0	75	180	121	59
	11+00	63	0	46	105	0	70	285	212	73
	11+50	50	0	30	86	0	28	371	248	123
	12+00	43	0	0						
TOTALS					1,170	0	524			

205.0100 EXCAVATION COMMON = SAY 1,170

NOTES:
1) EXCAVATION COMMON IS THE SUM OF THE CUT COLUMN. ITEM NUMBER 205.0100
2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME.
4) EXPANDED FILL FACTOR = 1.30 EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
5) THE MASS ORDINATE ± QTY CALCULATED FOR THE DIVISION.

PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.
MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.



PROJECT NO: 8880-00-70

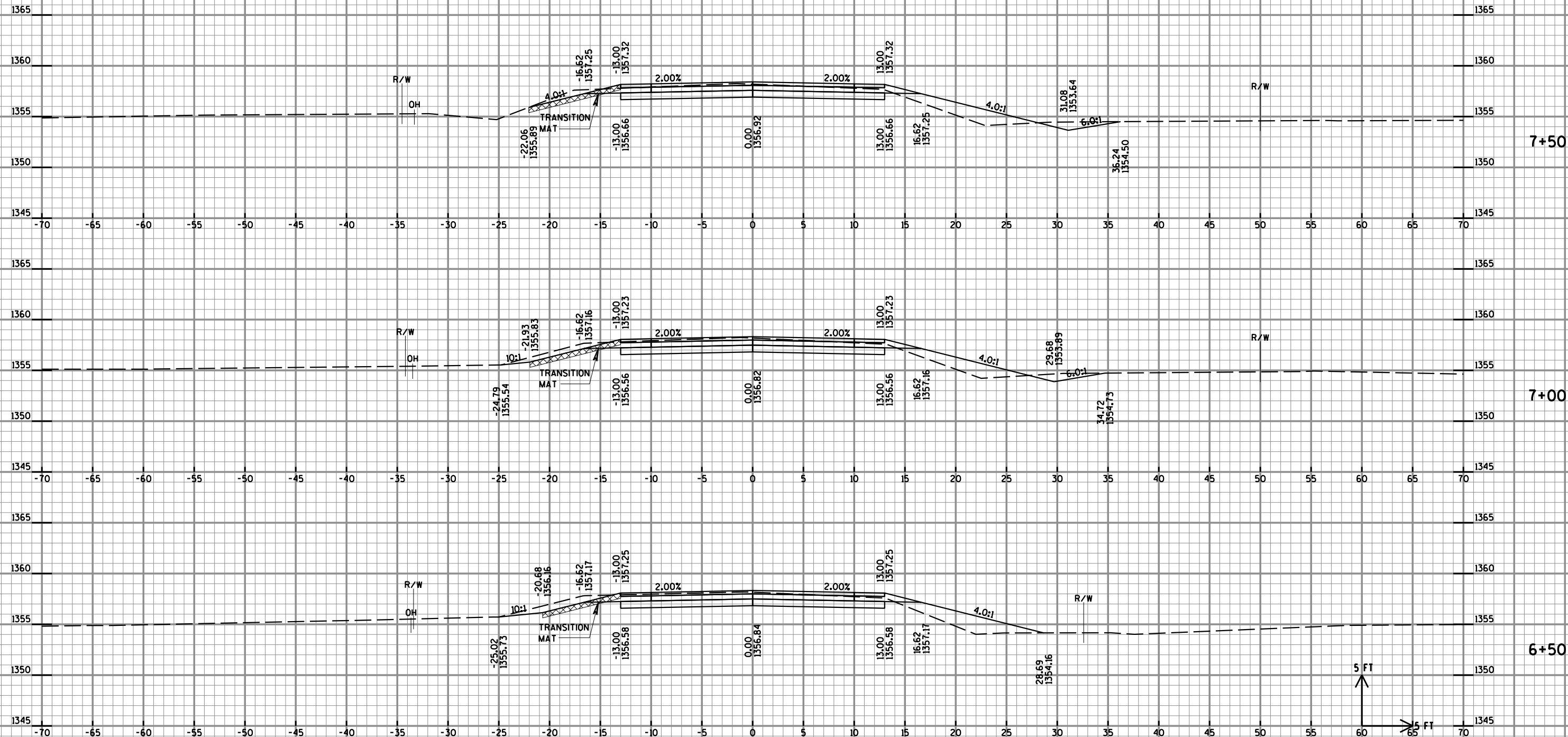
HWY: DIVISION AVENUE

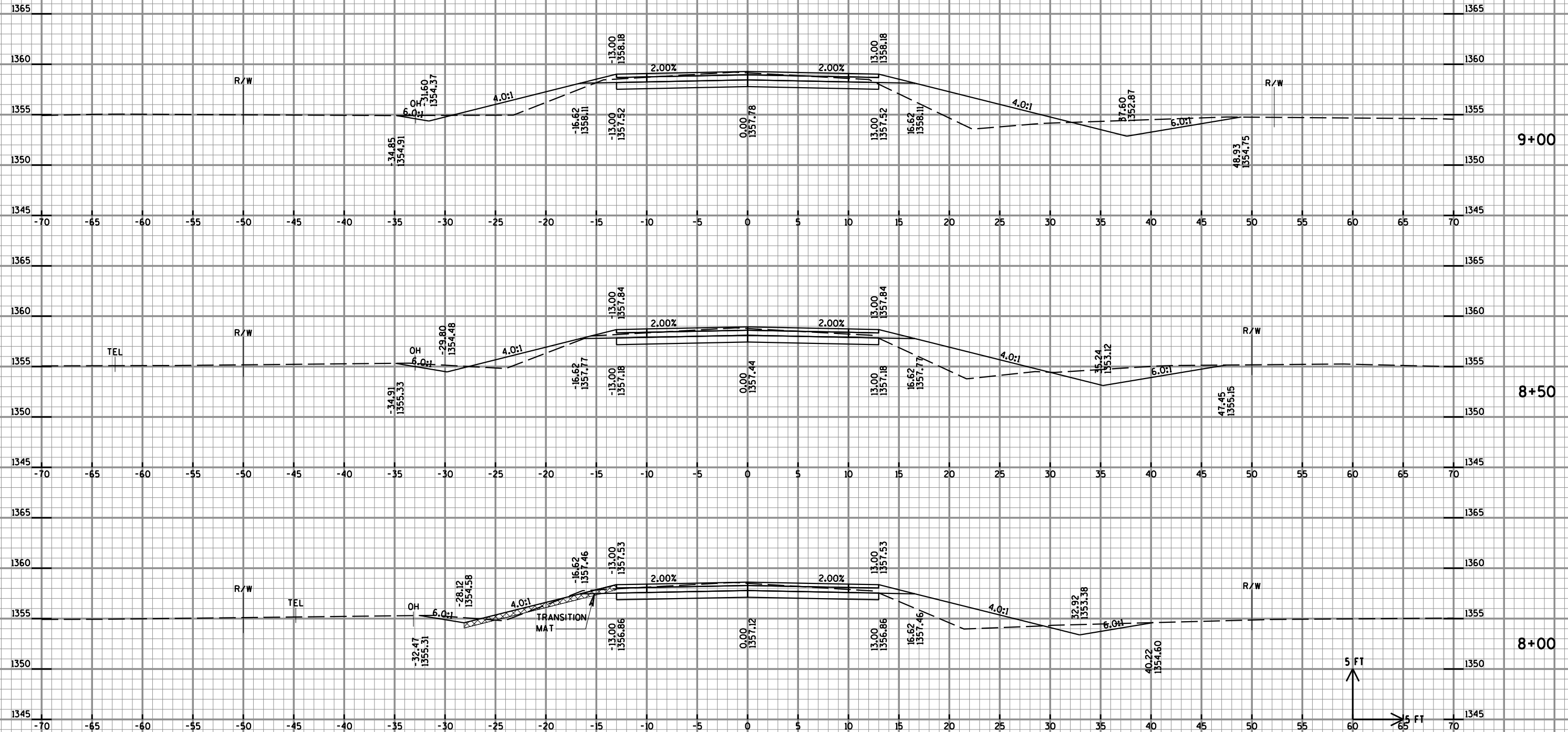
COUNTY: CLARK

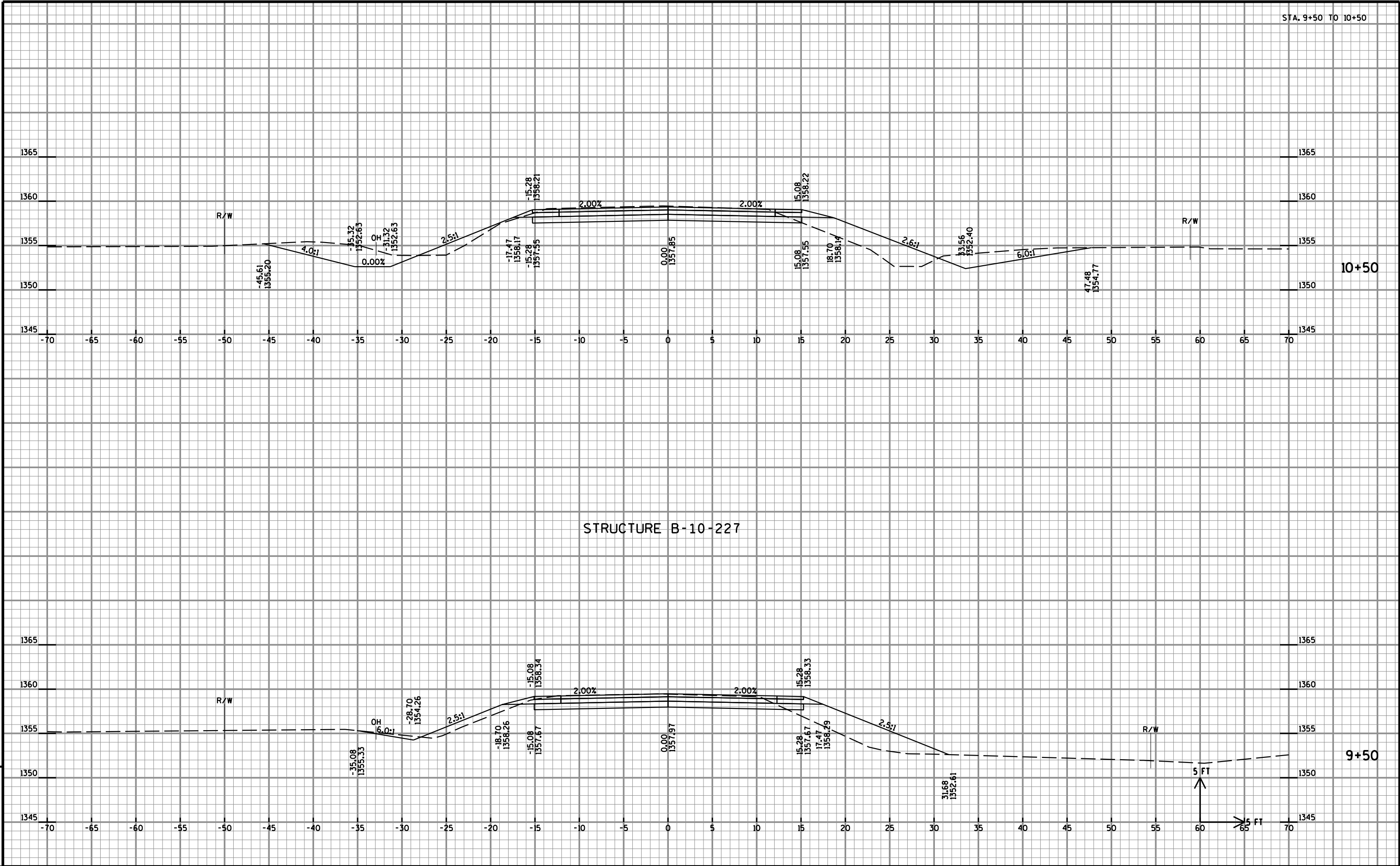
CROSS SECTIONS

SHEET

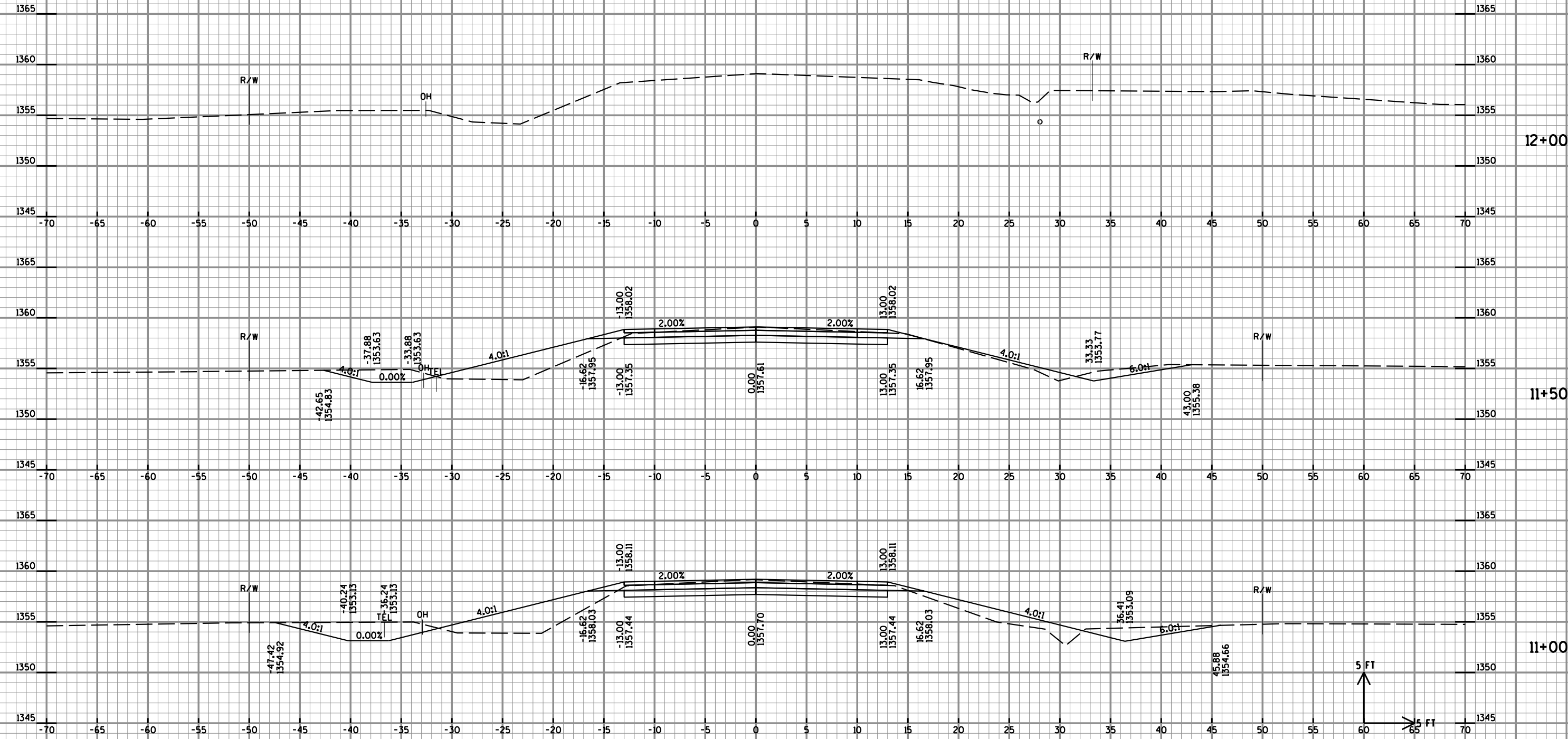
E







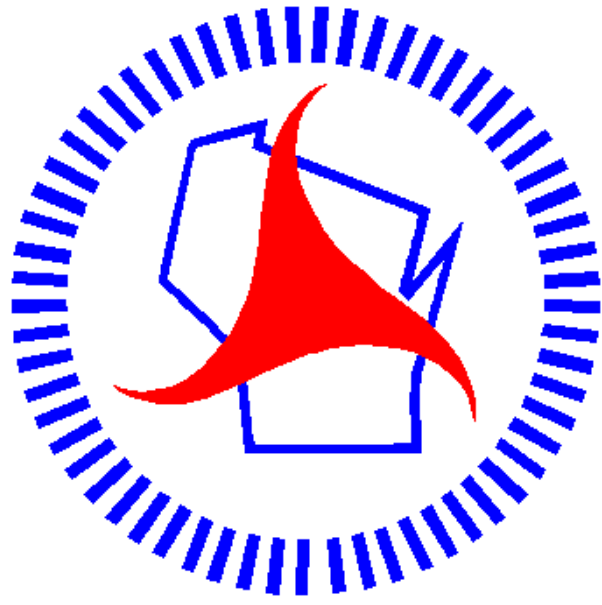
END PROJECT
STA. 12+00
(MATCH EXISTING)



9

9

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>