Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4802 Sheboygan Avenue, Rm 601
P O Box 7916
Madison, WI 53707-7916

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

June 5, 2017

NOTICE TO ALL CONTRACTORS:

Proposal #30: 1517-75-72, WISC 2017 345
USH 10 – USH 10/STH 441
County CB – Oneida St
Midway Interchange Mainline
USH 10
Winnebago County

Letting of June 13, 2017

This is Addendum No. 02, which provides for the following:

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
550.1100	Piling Steel HP 10-Inch X 42 LB	LF	140	352	492
636.0100	Sign Supports Concrete Masonry	CY	56.4	60	116.4
636.1500	Sign Supports Steel Coated Reinforcement HS	LB	6,040	11,680	17,720
652.0125	Conduit Rigid Metallic 2-Inch	LF	220	-30	190
SPV.0060.8500	Anchor Assemblies Sign Bridge	Each	4	4	8

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
603.1356	Concrete Barrier Type S56B	LF	0	32	32
652.0325	Conduit Rigid Nonmetallic Schedule 80 2-inch	LF	0	110	110
653.0220	Junction Boxes 18x12x6-Inch	Each	0	3	3

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
70	Plan Details
80	Plan Details

450	Structure B-70-423 – General Plan
451	Structure B-70-423 – Quantities, Notes and Profiles
455	Structure B-70-423 – South Abutment Details
457	Structure B-70-423 – North Abutment Details
465	Structure B-70-423 – Superstructure Details
468	Structure B-70-423 – Aesthetics 1
469	Structure B-70-423 – Aesthetics 2
470	Structure B-70-423 – Alternate Const. Joint
471	Structure B-70-423 – Slope Paving
533F	Structure S-70-218,226,227- 4-Chord Sign Bridge Detail

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
376C	SDD - 32", 36" & 42" Concrete Barrier Single Slope Class B
376D	SDD - 56" Concrete Barrier Single Slope Class B
376E	SDD - Concrete Barrier Single Slope Class B
466A	Structure B-70-423- Electrical Details
466B	Structure B-70-423 Electrical Details 2
533NA	Structures S-70-220, 221- Plan and Elevation S-70-220
533NB	Structures S-70-220, 221- Plan and Elevation S-70-221
533NC	Structures S-70-220, 221- General Notes and Anchor Bolt Details
533ND	Structures S-70-220,221 – Footing Type P1 Modified-2
533NE	Structures S-70-220,221 – Footing Type P1 Modified-3
533NF	Structure S-70-220 – Subsurface Exploration
533NG	Structure S-70-221 – Subsurface Exploration

Schedule of Items
Attached, dated June 5, 2017, are the revised Schedule of Items Pages 1 – 18.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 70, 80, 450, 451, 455, 457, 465, 468, 469, 470, 471, and 533F
Added: 376C – 376E, 466A, 466B, and 533NA – 533NG

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

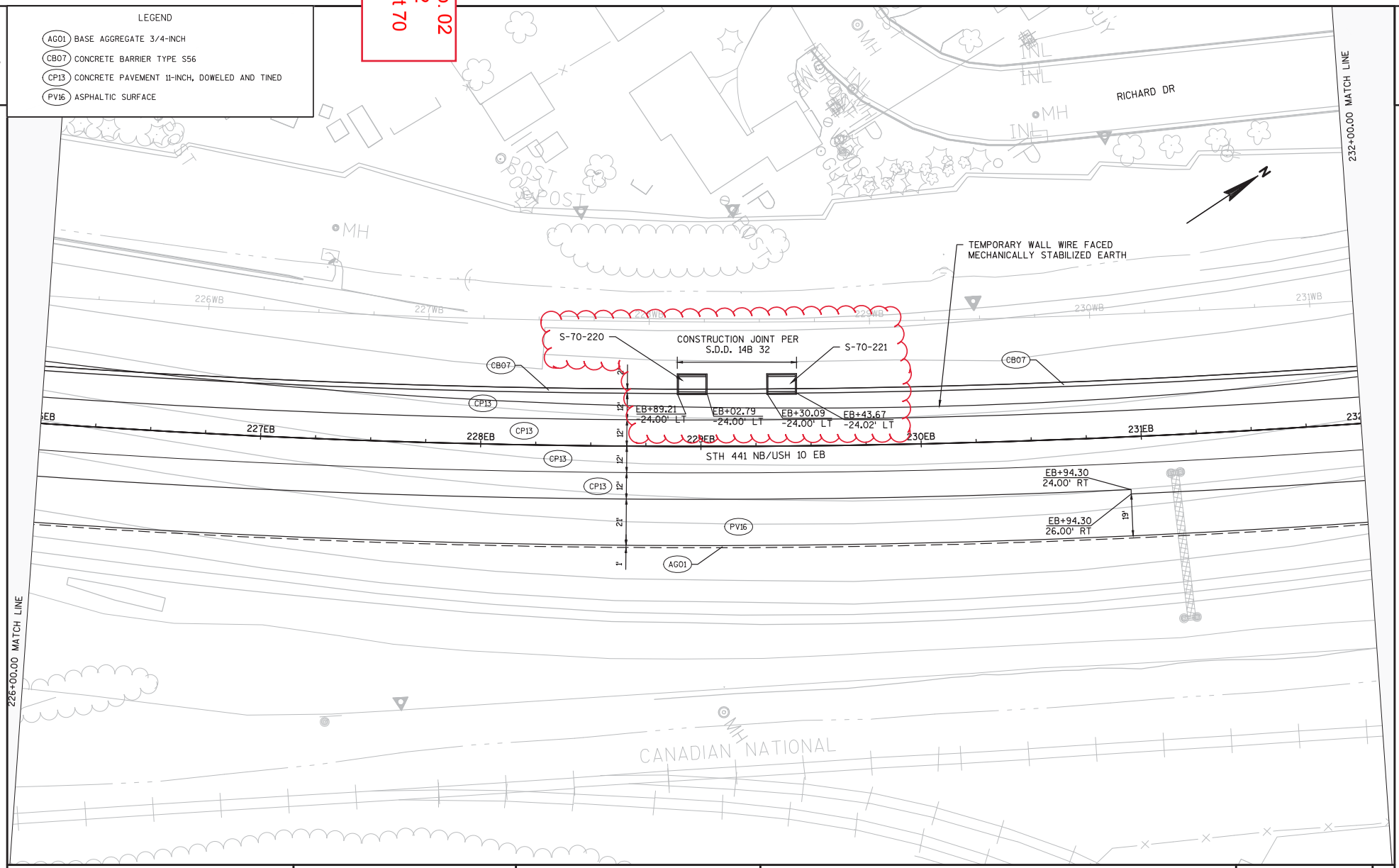
Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

Addendum No. 02
ID 1517-75-72
Revised Sheet 70
June 5, 2017

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- CB07 CONCRETE BARRIER TYPE S56
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE

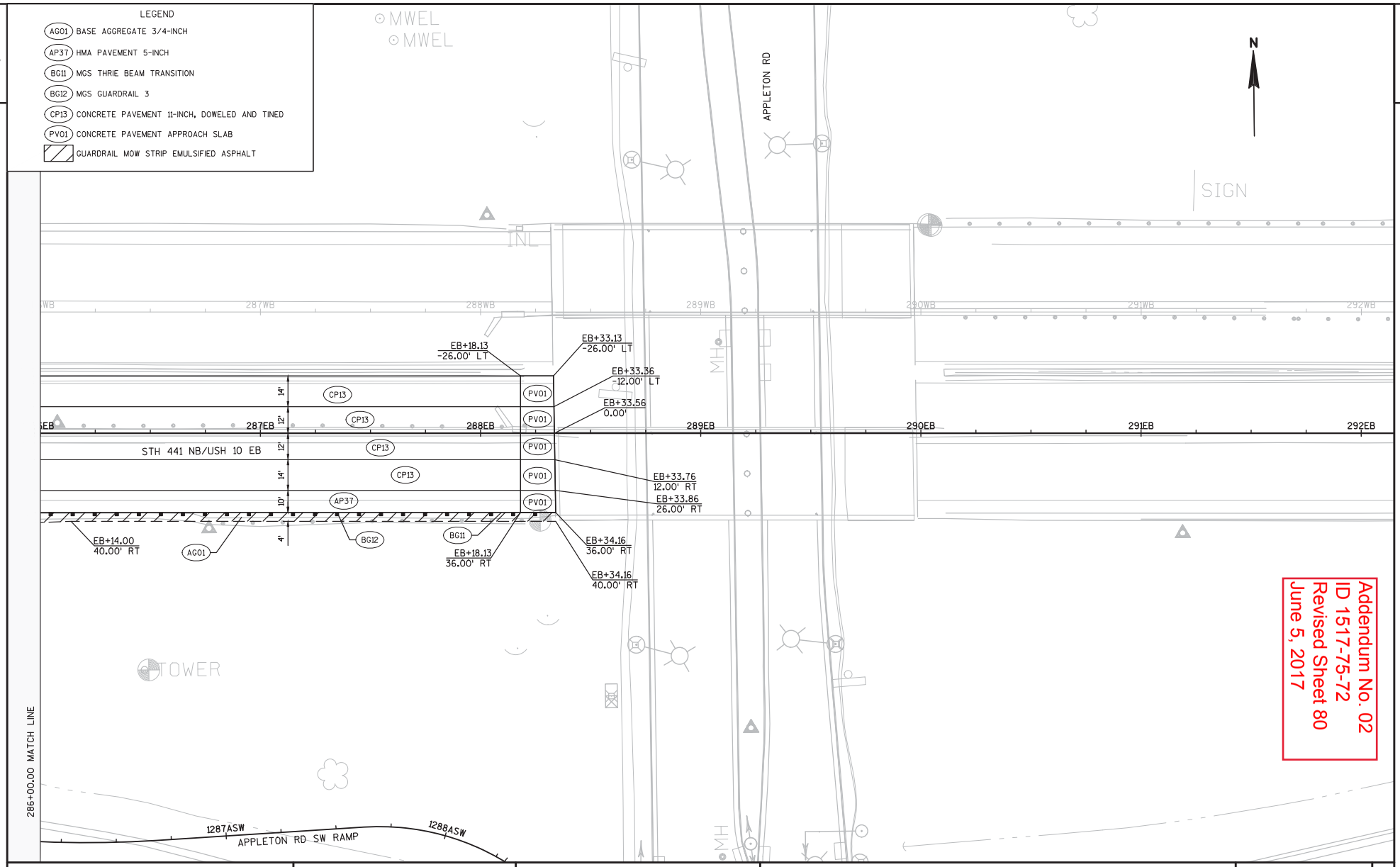


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 70	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021203-PD

PLOT DATE : 5/30/2017 10:31 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

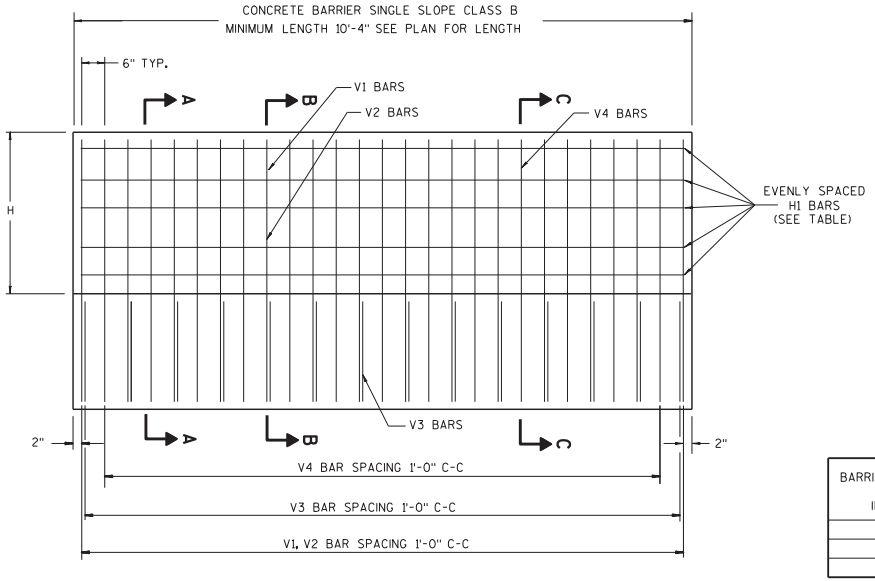


Addendum No. 02
ID 1517-75-72
Revised Sheet 80
June 5, 2017

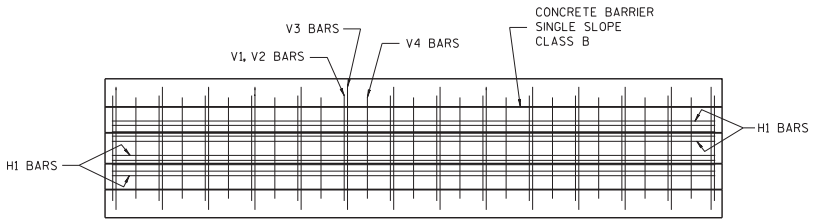
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 80	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021213-PD

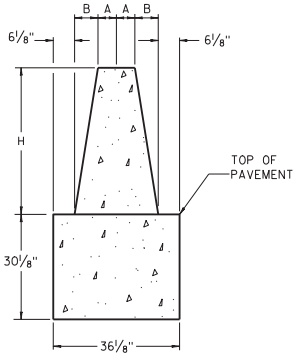
PLOT DATE : 5/31/2017 1:37 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT



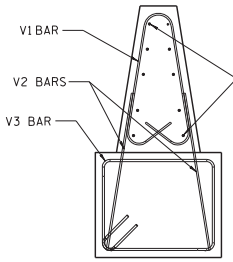
ELEVATION VIEW



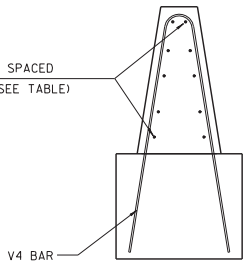
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF H1 BARS EACH
32	7	5	8
36	6¼	5¾	8
42	5¼	6¾	10

BARRIER HEIGHT H INCHES	V1 BAR		V4 BAR	
	C RAD. INCHES	D INCHES	E RAD. INCHES	F INCHES
32	5⅝	18¾	5½	53¾
36	4¾	23¾	4⅞	58⅜
42	3⅜	30½	3⅜	65⅜

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

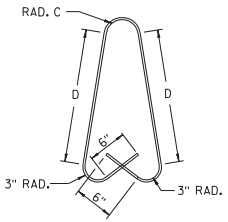
WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.

PAVEMENT AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL

PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.

WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP-FORMING CUT OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.

IF REQUIRED USE THRIE BEAM ANCHOR. NO OTHER ANCHOR REQUIRED.

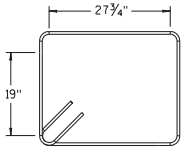


V1 BAR BENDING DETAIL

V1 BARS ARE NO. 4 BARS

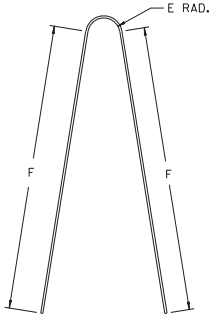
V2 BAR BENDING DETAIL

V2 BARS ARE NO. 5 BARS



V3 BAR BENDING DETAIL

V3 BARS ARE NO. 6 BARS



V4 BAR BENDING DETAIL

V4 BARS ARE NO. 6 BARS

Addendum No. 02
ID 1517-75-72
Added Sheet 376C
June 5, 2017

32", 36" & 42"
CONCRETE BARRIER
SINGLE SLOPE CLASS B

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

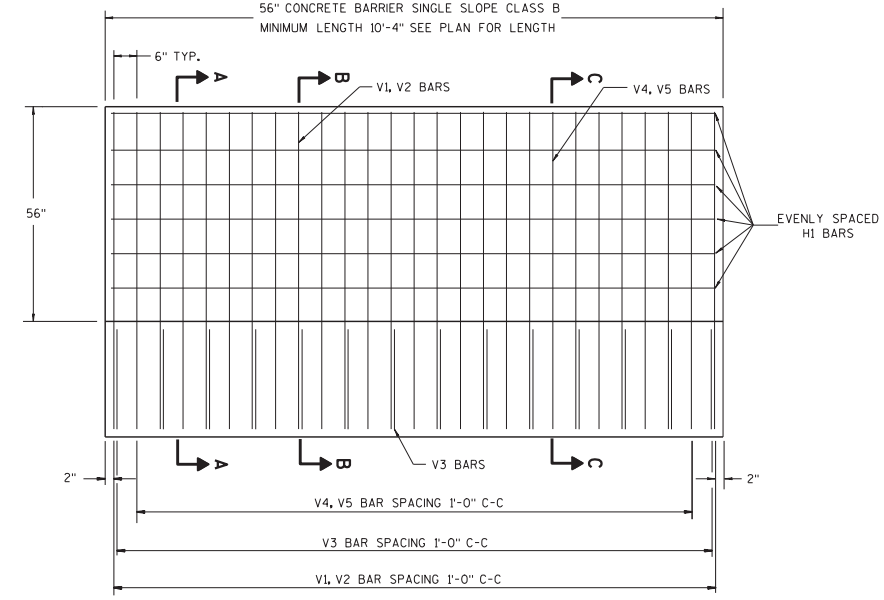
376C

6

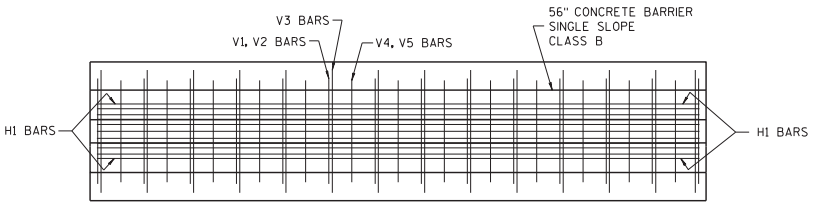
S.D.D. 14 B 34-1a

6

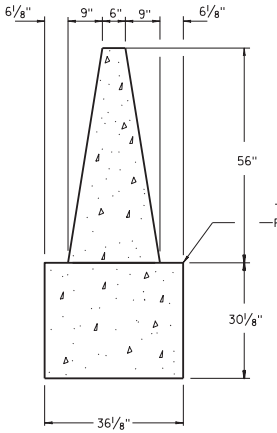
S.D.D. 14 B 34-1a



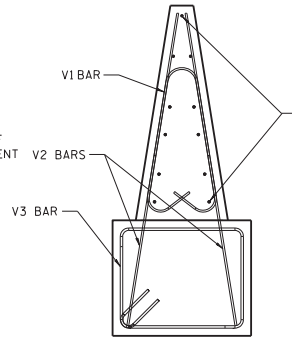
ELEVATION VIEW



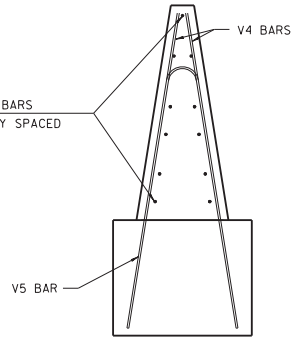
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

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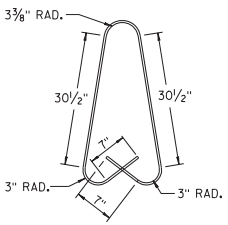
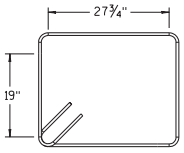
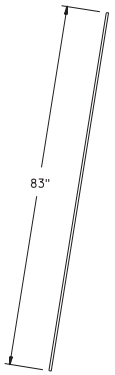


V1 BAR BENDING DETAIL
V1 BARS ARE NO. 4 BARS

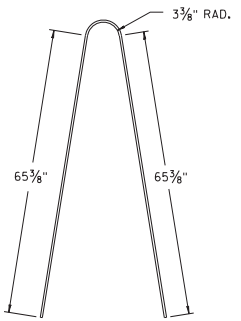


V3 BAR BENDING DETAIL
V3 BARS ARE NO. 6 BARS



V2 BAR BENDING DETAIL
V2 BARS ARE NO. 5 BARS

V4 BAR BENDING DETAIL
V4 BARS ARE NO. 5 BARS



V5 BAR BENDING DETAIL
V4 BARS ARE NO. 6 BARS

Addendum No. 02
ID 1517-75-72
Added Sheet 376D
June 5, 2017

56" CONCRETE BARRIER SINGLE SLOPE CLASS B

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

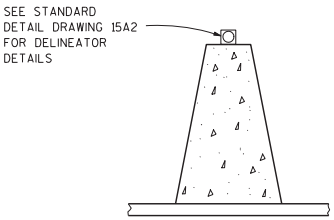
376D

6

S.D.D. 14 B 34-1b

6

S.D.D. 14 B 34-1b



DELINEATION

DELINEATOR SPACING ON HORIZONTAL CURVES

RADIUS OF CURVE	APPROXIMATE SPACING ON CURVE
50 FEET	20 FEET
115 FEET	25 FEET
180 FEET	35 FEET
250 FEET	40 FEET
300 FEET	50 FEET
400 FEET	55 FEET
500 FEET	65 FEET
600 FEET	70 FEET
700 FEET	75 FEET
800 FEET	80 FEET
900 FEET	85 FEET
1000 FEET	90 FEET

DELINEATOR SPACING ON RADIUS GREATER THAN 1000 FEET OR TANGENT SECTIONS

	LENGTH OF BARRIER	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2	3

6

6

Addendum No. 02
ID 1517-75-72
Added Sheet 376E
June 5, 2017

CONCRETE BARRIER
SINGLE SLOPE CLASS B

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6-3-2010
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

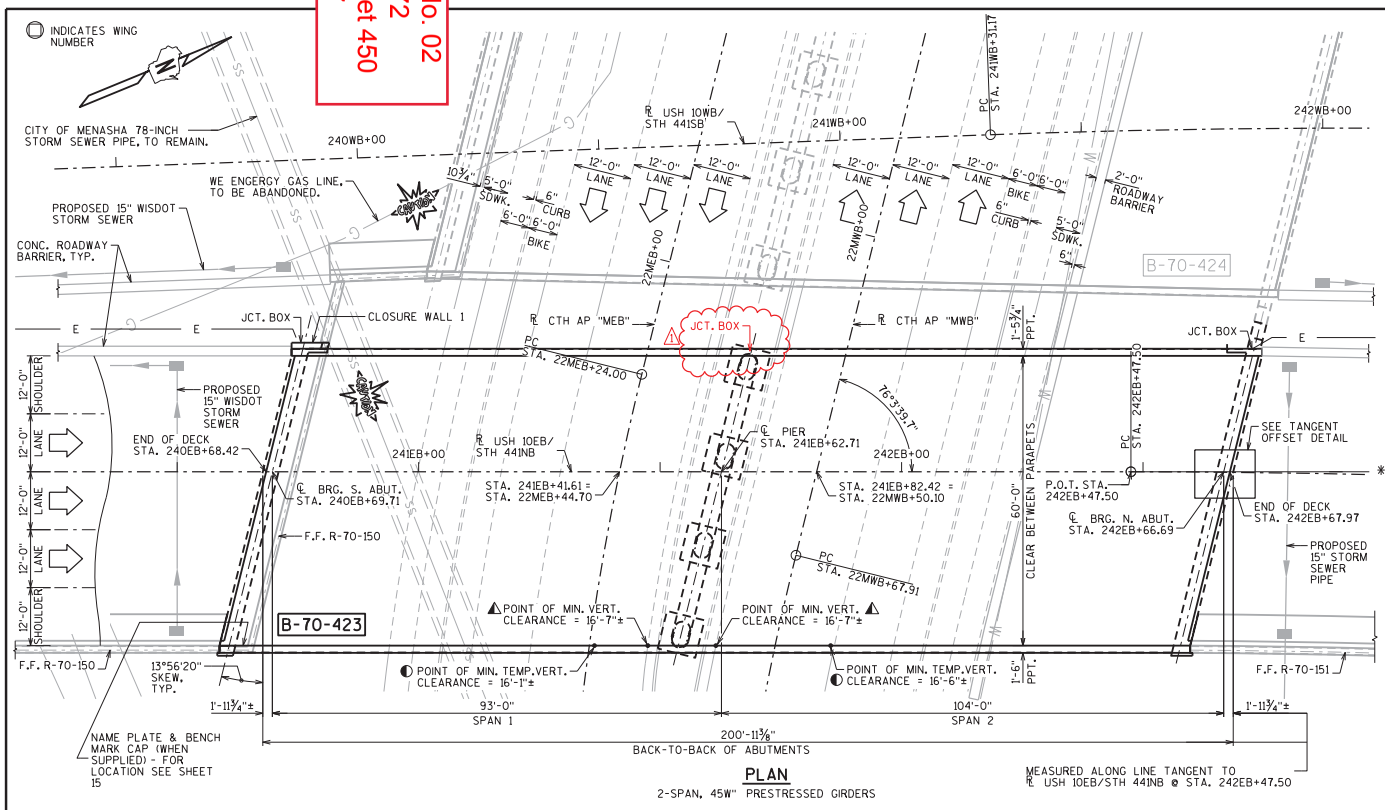
FHWA

S.D.D. 14 B 34-1c

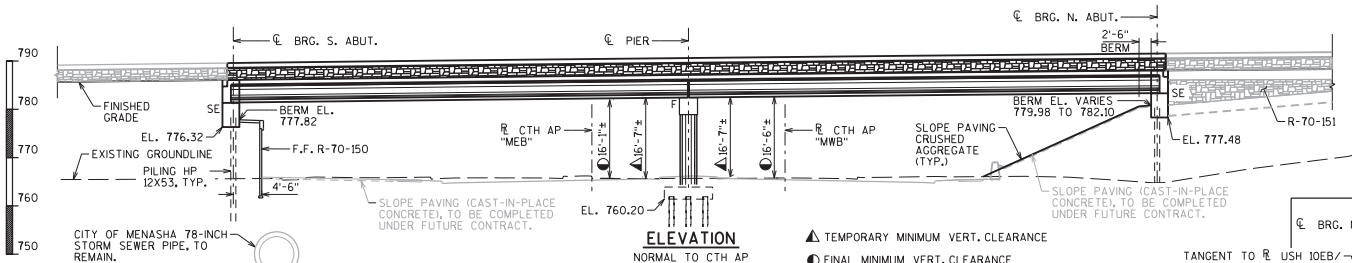
S.D.D. 14 B 34-1c

Addendum No. 02
ID 1517-75-72
Revised Sheet 450
June 5, 2017

STATE PROJECT NUMBER
1517-75-72

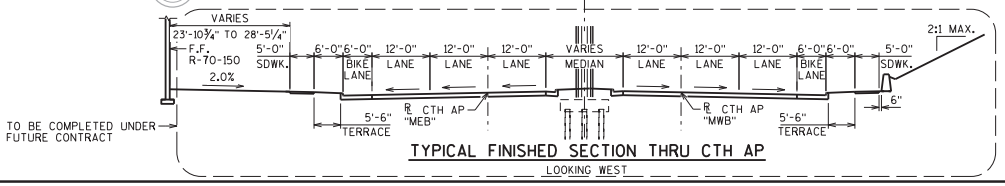


PLAN
2-SPAN, 45W" PRESTRESSED GIRDERS

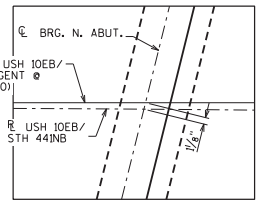


ELEVATION
NORMAL TO CTH AP

▲ TEMPORARY MINIMUM VERT. CLEARANCE
◐ FINAL MINIMUM VERT. CLEARANCE



TYPICAL FINISHED SECTION THRU CTH AP
LOOKING WEST



TANGENT OFFSET DETAIL
NORTH ABUT. ONLY

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF= 1.03
OPERATING RATING FACTOR: RF= 1.34
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 220(KIPS)
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.
B-70-423 IS RATED FOR A POLYMER OVERLAY THAT WILL BE APPLIED TO THE BRIDGE DECK IN A LATER CONTRACT

MATERIAL PROPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE (HPC)	f'c = 4,000 P.S.I.
CONCRETE MASONRY ALL OTHER	f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.
45W" PRESTRESSED GIRDERS, CONCRETE MASONRY STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.	f'c = 8,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55'-0" LONG AT SOUTH ABUTMENT
ESTIMATED 45'-0" LONG AT NORTH ABUTMENT

PIERS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG.

** 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 VOLUME

USH 10 EB/STH 441 NB	USH 10 WB/STH 441 SB	CTH AP
A.D.T. = 32,900 (2035)	A.D.T. = 35,400 (2035)	A.D.T. = 10,700 (2035)
R.D.S. = 70 M.P.H.	R.D.S. = 70 M.P.H.	R.D.S. = 40 M.P.H.

SEE SHEET 2 FOR CURVE DATA

LIST OF DRAWINGS

5/31/17
William C Dreher

STRUCTURE DESIGN CONTACTS:
EMILY KUEHNE (608)266-5089
AARON BONK (608)261-0261

NO.	DATE	REVISION	BY
⚠1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

BUREAU OF STRUCTURES
ACCEPTED William C Dreher 2/13/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-70-423
USH 10 EB/STH 441 NB OVER CTH AP

COUNTY	CITY
WINNEBAGO	MENASHA

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

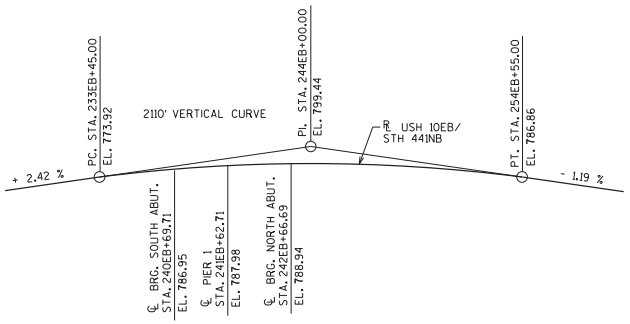
DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	BH	EMK	MJK

GENERAL PLAN

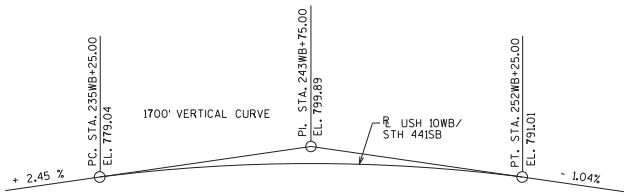
SHEET 1 OF 23
450

I.D. 1517-07-041 DATE: FEB. 2017

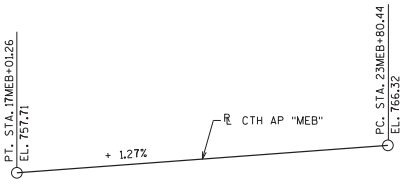
SCALE = 12.50



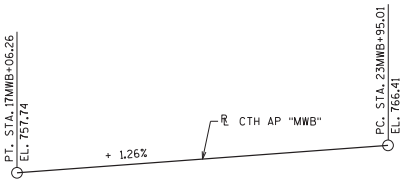
PROFILE GRADE LINE USH 10EB/STH 441NB



PROFILE GRADE LINE USH 10WB/STH 441SB



PROFILE GRADE LINE CTH AP "MEB"



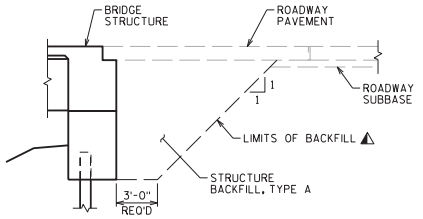
PROFILE GRADE LINE CTH AP "MWB"

CURVE DATA

℄ CTH AP "MEB"
P.I. = 24MEB+15.03
Δ = 38° 18' 27"
D = 10° 25' 03"
T = 191.03
L = 367.72'
R = 550.00'
P.C. = 22MEB+24.00
P.T. = 25MEB+91.73

℄ CTH AP "MWB"
P.I. = 24MEB+54.72
Δ = 36° 03' 16"
D = 9° 58' 55"
T = 186.81
L = 361.20'
R = 574.00'
P.C. = 22MWB+67.91
P.T. = 26MWB+29.11

USH 10 EB/STH 441 NB
P.I. = 256EB+56.08
Δ = 68° 21' 56"
D = 2° 45' 45"
T = 1408.58'
L = 2474.71'
R = 2074.00'
S.E. = 6.0 %
P.C. = 242EB+47.50
P.T. = 267EB+22.20



TYPICAL SECTION
THRU ABUTMENT

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

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-70-423	LS	——	——	——	——	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	——	382	——	423	805
501.1000.S	ICE HOT WEATHER CONCRETING	LB	3,820	360	715	435	5,330
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,355	——	——	——	1,355
502.3210	PIGMENTED SURFACE SEALER	SY	220	——	——	——	220
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,582	——	——	——	1,582
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	——	4,100	1,840	4,480	10,420
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	106,650	360	20,610	370	127,990
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	32	——	——	——	32
506.4000	STEEL DIAPHRAGMS B-70-423	EACH	28	——	——	——	28
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	30	3	——	4	37
517.1010.S	CONCRETE STAINING B-70-423	SF	2,805	365	1,760	385	5,315
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-70-423	SF	505	——	205	265	975
550.0010	PRE-BORING (UNCONSOLIDATED MATERIALS)	LF	——	60	——	——	60
550.1120	PILING STEEL HP 12-INCH X 53LB	LF	——	660	1,120	675	2,455
604.0400	SLOPE PAVING CONCRETE	SY	——	18	——	——	18
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	——	——	——	320	320
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	——	——	——	70	70
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	190	——	——	——	190
652.0325	CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH	LF	——	55	——	55	110
653.0220	JUNCTION BOXES 18X12X6-INCH	EACH	3	——	——	——	3
SPV.0035	MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES	CY	509	48	95	58	710
	NON-BID ITEMS						
	FILLER	SIZE	——	——	——	——	½", ¾", 1", 1½"
			——	——	——	——	——

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

⚠1 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 STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONCRETE QUANTITY FOR ALL SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE (EXCLUDING THE GIRDERS) SHALL BE PAID FOR UNDER THE BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES".

TRANSVERSE TINING OF THE BRIDGE DECK SHALL BE DONE BY HAND AND SHALL BE PAID FOR UNDER BID ITEM "MODIFIED HIGH PERFORMANCE (HPC) MASONRY BRIDGES."

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER.

Addendum No. 02
ID 1517-75-72
Revised Sheet 451
June 5, 2017

5/31/17

NO.	DATE	REVISION	BY
⚠1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

QUANTITIES, NOTES & PROFILES

SHEET 2

451

STATE PROJECT NUMBER
1517-75-72

SCALE = 1.00

8

8

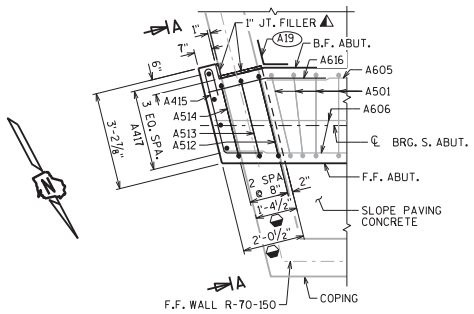
Addendum No. 02
ID 1517-75-72
Revised Sheet 455
June 5, 2017

STATE PROJECT NUMBER
1517-75-72

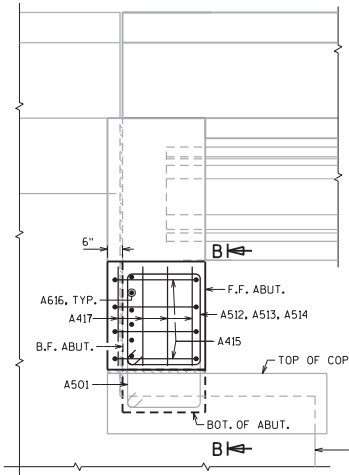
BILL OF BARS

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

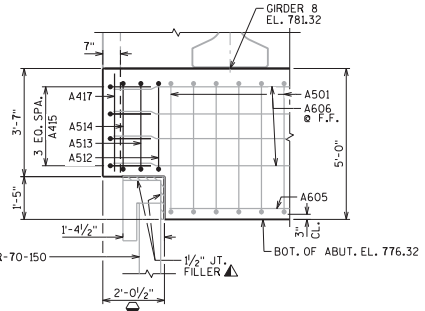
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		81	15'-0"	X		BODY - STIRRUPS
A402		24	2'-3"			PILES - VERT. - 2 PER PILE
A403		12	28'-0"	X		PILES - SPIRAL - 1 PER PILE
A604		17	35'-8"			BODY - HORIZ. (WEST)
A605		11	31'-8"			BODY - HORIZ. (EAST AT COPING)
A606		6	33'-9"			BODY - HORIZ. (EAST ABOVE COPING)
A407		5	34'-8"			BODY - TOP - HORIZ. UNDER BEAM SEATS 1-4
A408		5	16'-10"			BODY - TOP - HORIZ. UNDER BEAM SEATS 5-6
A509		50	7'-9"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-6
A410		14	6'-8"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS
A411		35	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
A512		1	12'-4"	X		BODY - EAST CORNER - STIRRUP
A513		1	12'-0"	X		BODY - EAST CORNER - STIRRUP
A514		1	11'-8"	X		BODY - EAST CORNER - STIRRUP
A415		4	5'-4"	X		BODY - EAST CORNER - HORIZ.
A616		6	4'-11"	X		BODY - EAST CORNER - HORIZ.
A417		4	3'-3"			BODY - EAST CORNER - VERT.
A518	X	14	11'-8"	X		CLOSURE WALL 1 - HORIZ.
A419	X	14	10'-10"			CLOSURE WALL 1 - VERT.
A420	X	4	9'-6"			CLOSURE WALL 1 - VERT.
A521	X	6	9'-10"	X		CLOSURE WALL 1 - HORIZ.



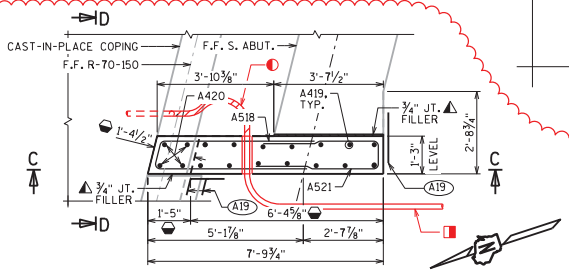
PLAN VIEW OF ABUT. CORNER
SHOWING SOUTH EAST END OF SOUTH ABUTMENT



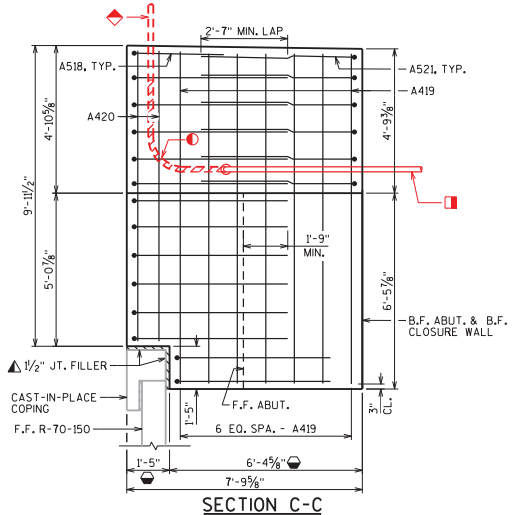
VIEW A-A
END OF ABUT. DETAILS



VIEW B-B
END OF ABUT. DETAILS
SHOWING F.F. REINFORCEMENT



PLAN VIEW OF CLOSURE WALL 1



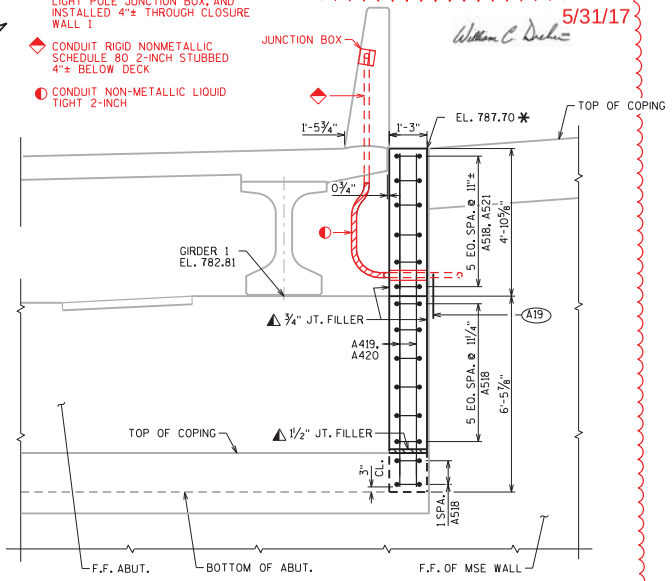
SECTION C-C
CLOSURE WALL 1 DETAILS

CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH TO FIRST LIGHT POLE JUNCTION BOX, AND INSTALLED 4"± THROUGH CLOSURE WALL 1

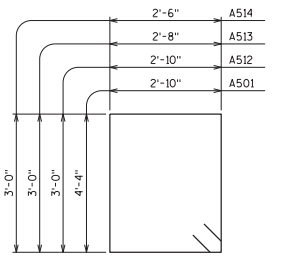
CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH STUBBED 4"± BELOW DECK

CONDUIT NON-METALLIC LIQUID TIGHT 2-INCH

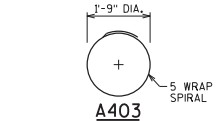
5/31/17



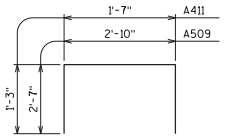
VIEW D-D
CLOSURE WALL 1 DETAILS
LOOKING AT F.F. OF ABUT.



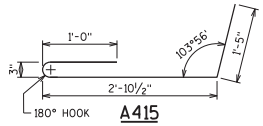
A501, A512, A513, A514



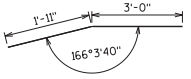
A403



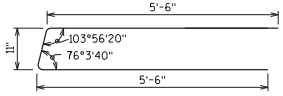
A509, A411



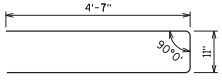
A415



A616



A518



A521

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

* ELEVATION TAKEN AT F.F. OF COPING

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

DIMENSION BASED ON AN ESTIMATED RETAINING WALL PANEL THICKNESS OF 9". COORDINATE WITH WALL MANUFACTURER AND ADJUST DIMENSION AS NECESSARY.

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

SOUTH ABUTMENT DETAILS

SHEET 6

455

SCALE = 2.00

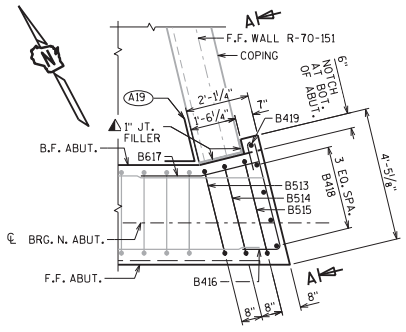
8

8

STATE PROJECT NUMBER

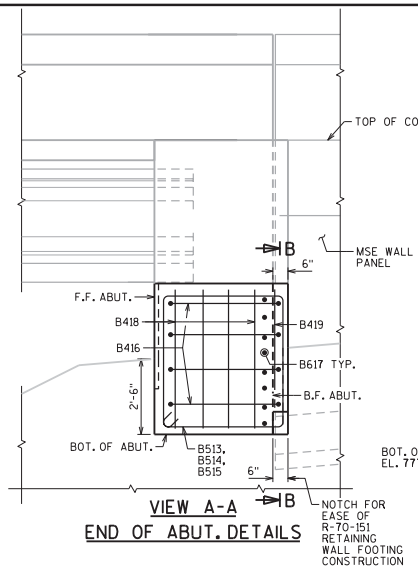
1517-75-72

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



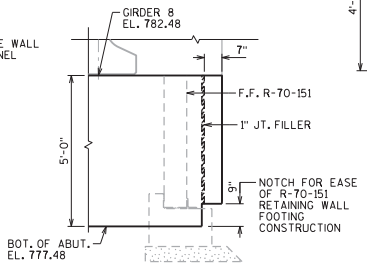
PLAN VIEW OF ABUT. CORNER

SHOWING NORTH EAST END OF NORTH ABUTMENT



VIEW A-A

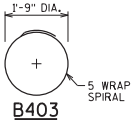
END OF ABUT. DETAILS



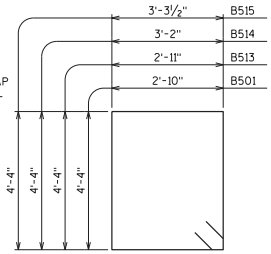
SECTION B-B

END OF ABUT. DETAILS

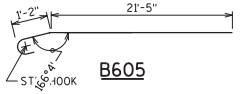
LOOKING AT FRONT FACE OF ABUTMENT



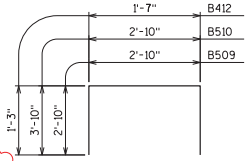
B403



B501, B513, B514, B515



B605



B509, B510, B412

BILL OF BARS

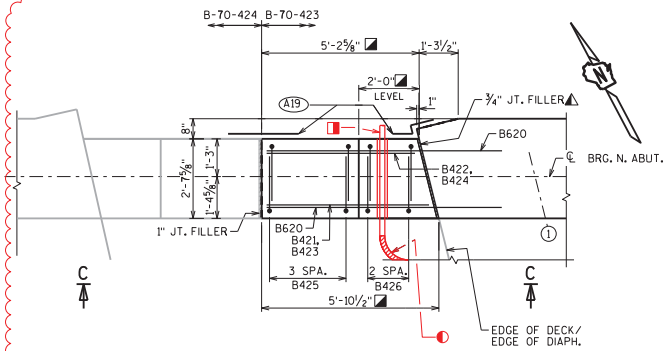
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		78	15'-0"	X		BODY - STIRRUPS
B402		30	2'-3"			PILES - VERT. - 2 PER PILE
B403		15	28'-0"	X		PILES - SPIRAL - 1 PER PILE
B604		34	24'-6"			BODY - HORIZ. (EAST)
B605		8	23'-4"	X		BODY - HORIZ. (WEST ℄ B.F.)
B606		9	27'-10"			BODY - HORIZ. (WEST ℄ F.F.)
B407		5	35'-7"			BODY - TOP - HORIZ. UNDER BEAM SEATS 3-7
B408		5	22'-9"			BODY - TOP - HORIZ. UNDER BEAM SEATS 1-3
B509		34	8'-3"	X		BODY - TOP - VERT. UNDER BEAM SEATS 4-7
B510		23	10'-3"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-3
B411		14	6'-8"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS
B412		35	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
B513		1	15'-2"	X		BODY - EAST CORNER - STIRRUP
B514		1	15'-8"	X		BODY - EAST CORNER - STIRRUP
B515		1	15'-11"	X		BODY - EAST CORNER - STIRRUP
B416		4	6'-3"	X		BODY - EAST CORNER - HORIZ.
B617		8	4'-10"	X		BODY - EAST CORNER - HORIZ.
B418		4	4'-7"			BODY - EAST CORNER - VERT.
B419		1	3'-10"			BODY - EAST CORNER - VERT.
B620	X	14	7'-10"			BODY - WEST CORNER - HORIZ.
B421	X	7	5'-6"			BODY - WEST CORNER - HORIZ. ℄ F.F.
B422	X	7	4'-10"			BODY - WEST CORNER - HORIZ. ℄ B.F.
B423	X	1	5'-6"	X		BODY - WEST CORNER - HORIZ. ℄ F.F.
B424	X	1	4'-10"	X		BODY - WEST CORNER - HORIZ. ℄ B.F.
B425	X	8	15'-10"	X	⬟	BODY - WEST CORNER - VERT.
B426	X	6	16'-1"	X		BODY - WEST CORNER - VERT.

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

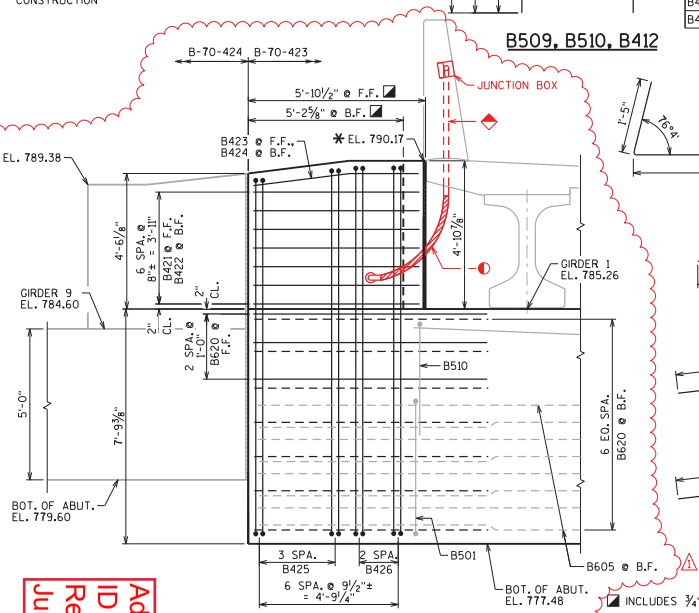
- CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH TO FIRST LIGHT POLE JUNCTION BOX, AND INSTALLED 4"± THROUGH ABUTMENT BODY
- CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH STUBBED 4"± BELOW DECK
- CONDUIT NON-METALLIC LIQUID TIGHT 2-INCH

William C Dickie 5/31/17



PLAN VIEW OF ABUT. CORNER

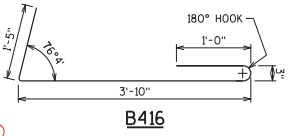
SHOWING NORTH WEST END OF NORTH ABUTMENT



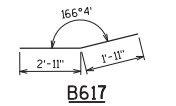
VIEW C-C

END OF ABUT. DETAILS

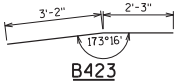
LOOKING AT F.F. REINFORCEMENT



B416



B617



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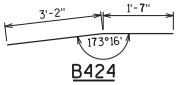
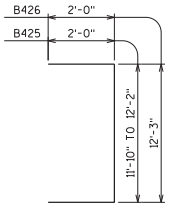


B424

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B425	2 SERIES OF 4	15'-8" TO 16'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.



B425, B426

- INCLUDES ¾" FILLER
- ✱ ELEVATIONS GIVEN AT ℄ BRG. N. ABUT.
- SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

NORTH ABUTMENT DETAILS

SHEET 8

457

SCALE = 2.00

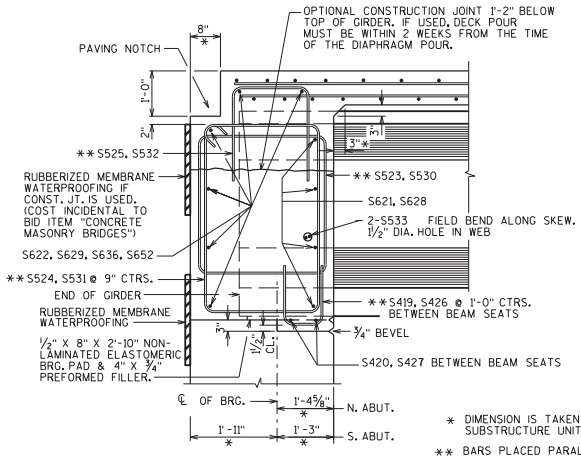
Addendum No. 02
ID 1517-75-72
Revised Sheet 457
June 5, 2017

8

8

STATE PROJECT NUMBER

1517-75-72

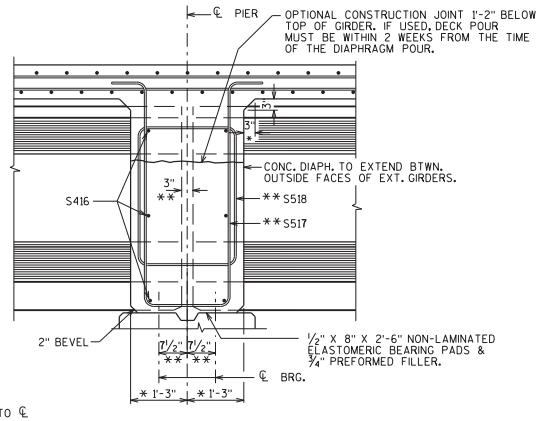


AT ABUTMENTS

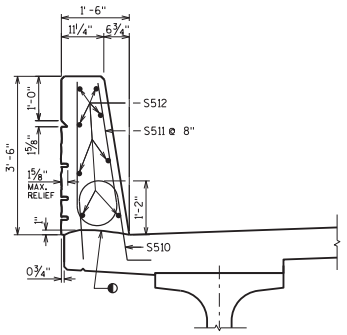
PART LONGIT. SECTION

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

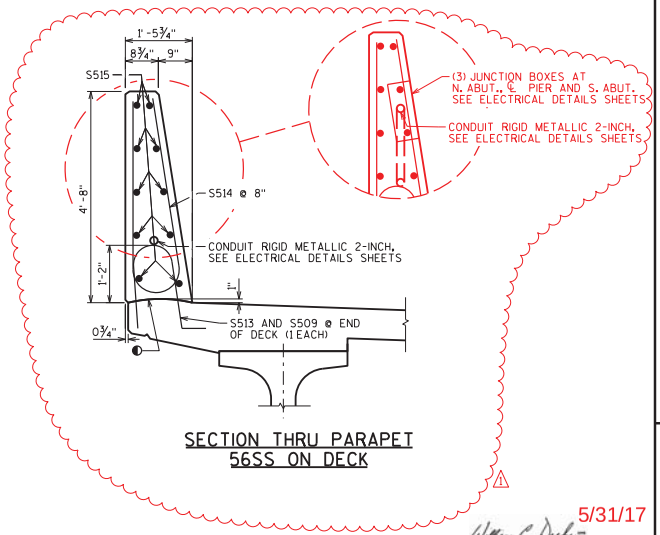


AT PIER DIAPHRAGM

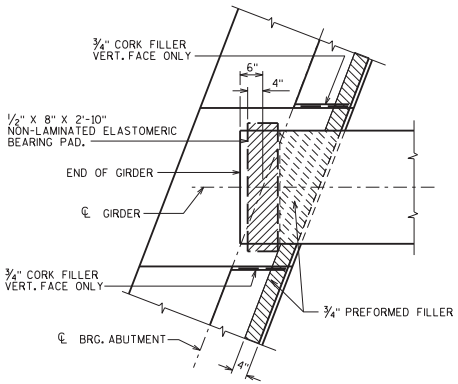


SECTION THRU PARAPET 42SS "MODIFIED" ON DECK

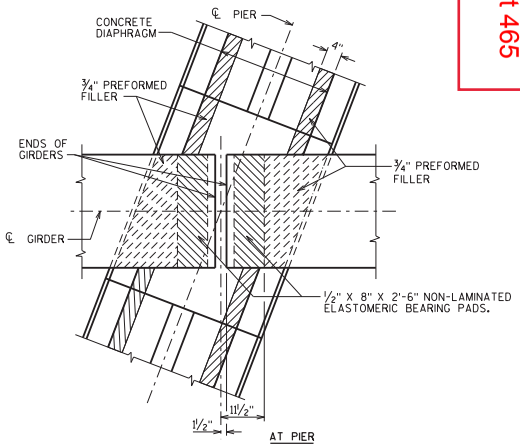
Addendum No. 02
ID 1517-75-72
Revised Sheet 465
June 5, 2017



SECTION THRU PARAPET 56SS ON DECK



AT ABUTMENTS



AT PIER

BEARING PAD DETAIL

◐ LEAVE AREA UNDER PARAPET ROUGH

5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

SUPERSTRUCTURE DETAILS

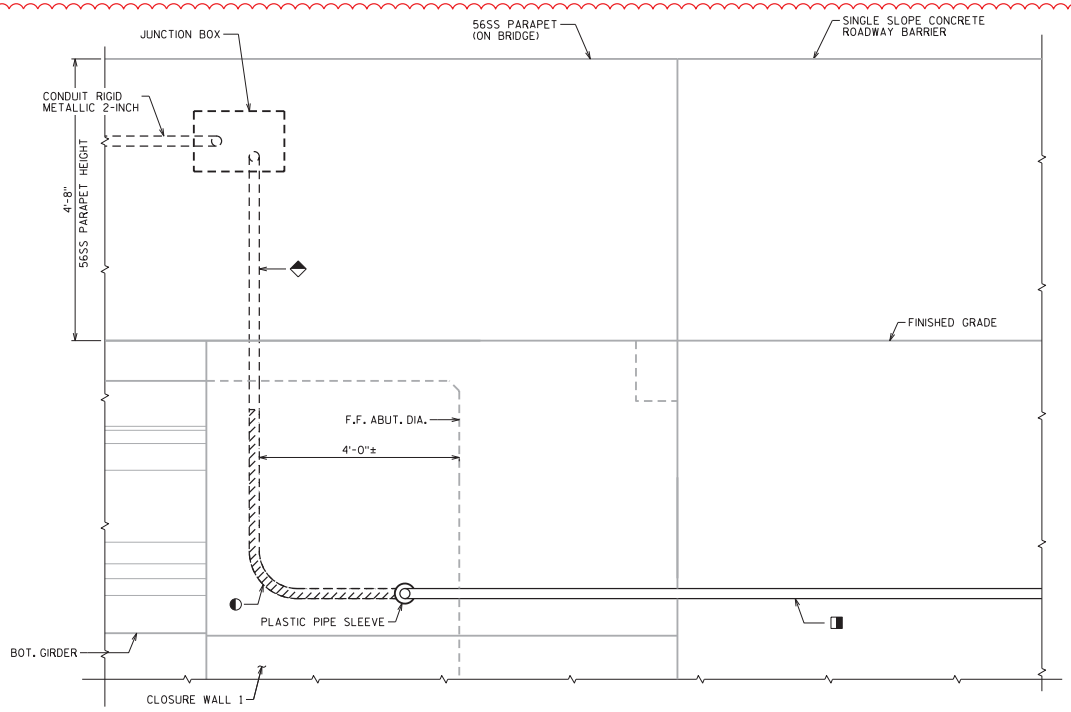
SHEET 16

465

SCALE = 1.33

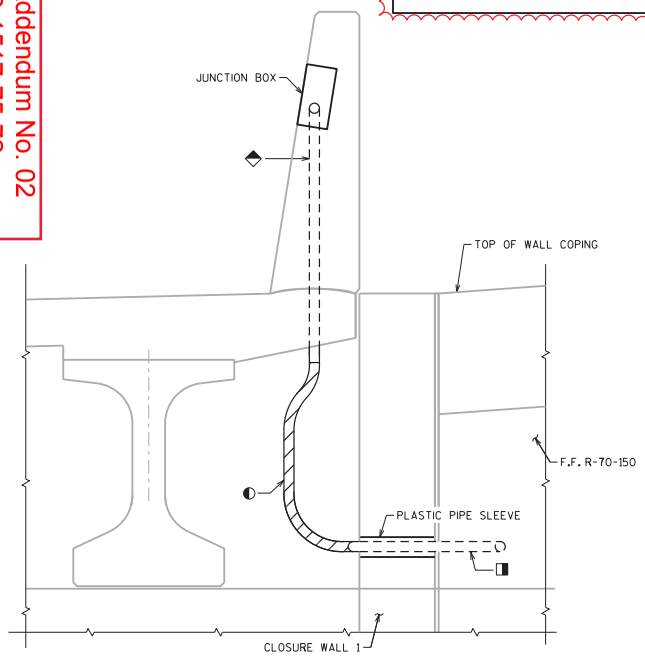
Addendum No. 02
ID 1517-75-72
Added Sheet 466A
June 5, 2017

STATE PROJECT NUMBER
1517-75-72



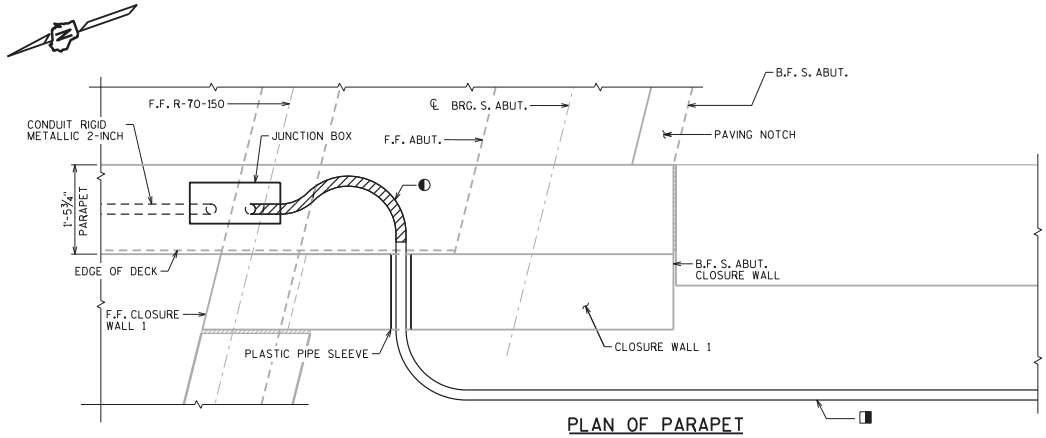
ELEVATION OF PARAPET AT END OF DECK

SOUTH ABUTMENT, LOOKING EAST AT THE OUTSIDE FACE OF PARAPET
NOT TO SCALE



ELEVATION OF PARAPET AT END OF DECK

SOUTH ABUTMENT, LOOKING SOUTH AT FRONT FACE OF ABUTMENT
NOT TO SCALE



PLAN OF PARAPET

SHOWING SOUTH WEST CORNER OF SOUTH ABUTMENT

◨ CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH TO FIRST LIGHT POLE JUNCTION BOX, AND INSTALLED 4"± THROUGH CLOSURE WALL 1

◆ CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH STUBBED 4"± BELOW DECK

◐ CONDUIT NON-METALLIC LIQUID TIGHT 2-INCH

NOTES

BID ITEMS SHALL BE:
"CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH"
"JUNCTION BOXES 18X12X6-INCH", EACH

APPROVED MANUFACTURERS - JUNCTION BOXES:
SEE APPROVED MATERIAL LIST.

LIQUID TIGHT FLEXIBLE CONDUIT, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH".

INSTALL GROUNDING BUSHINGS ON ALL RIGID METALLIC ELECTRICAL CONDUITS THAT TERMINATE IN JUNCTION OR PULL BOXES.

WHEN CONNECTING ON METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED.

PLASTIC PIPE SLEEVE MUST BE AT LEAST TWICE THE O.D. DIAMETER OF THE CONDUIT. SLEEVE TO BE FILLED WITH MATERIAL THAT ALLOWS FOR MOVEMENT OF THE CONDUIT. TO BE SEALED AT F.F. AND B.F. WITH NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH".

William C. Dickie 5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

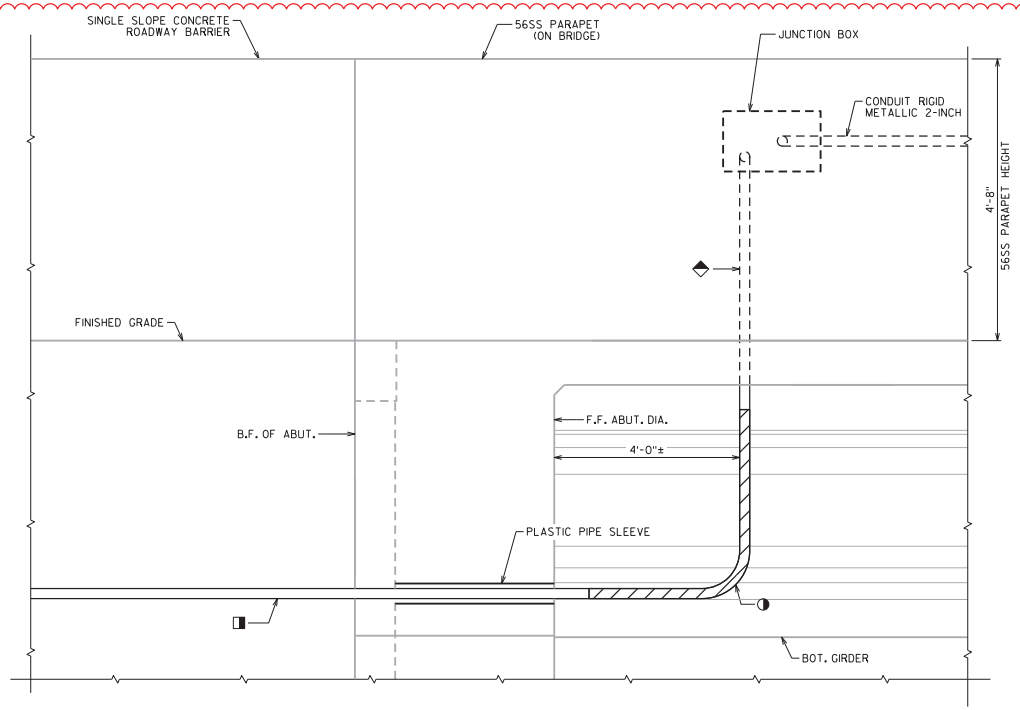
ELECTRICAL DETAILS

SHEET 18

466A

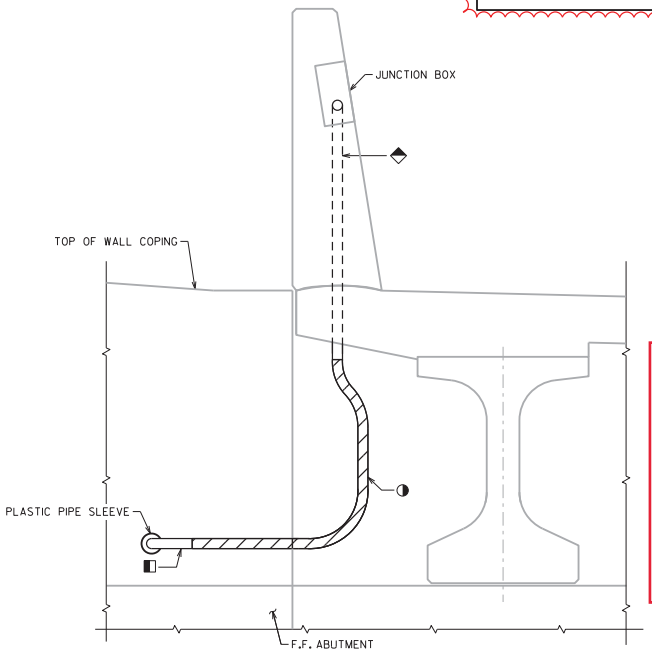
SCALE = 1.00

STATE PROJECT NUMBER
1517-75-72



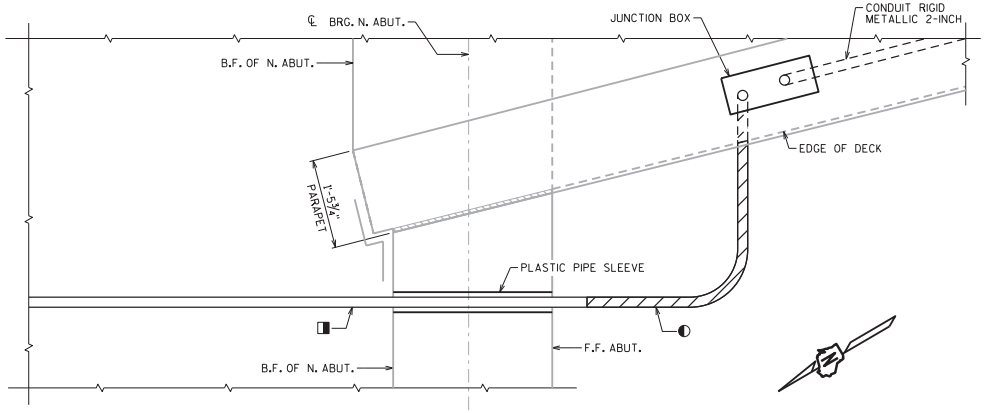
ELEVATION OF PARAPET AT END OF DECK

NORTH ABUTMENT, LOOKING EAST AT THE OUTSIDE FACE OF PARAPET
NOT TO SCALE



ELEVATION OF PARAPET AT END OF DECK

NORTH ABUTMENT, LOOKING NORTH AT THE FRONT FACE OF ABUTMENT
NOT TO SCALE



PLAN OF PARAPET

SHOWING NORTH WEST CORNER OF NORTH ABUTMENT

◨ CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH TO FIRST LIGHT POLE JUNCTION BOX, AND INSTALLED 4"± THROUGH ABUTMENT BODY.

◆ CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH STUBBED 4"± BELOW DECK

◐ CONDUIT NON-METALLIC LIQUID TIGHT 2-INCH

NOTES

BID ITEMS SHALL BE:
"CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH"
"JUNCTION BOXES 18X12X6-INCH", EACH

APPROVED MANUFACTURERS - JUNCTION BOXES:
SEE APPROVED MATERIAL LIST.

LIQUID TIGHT FLEXIBLE CONDUIT, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH".

INSTALL GROUNDING BUSHINGS ON ALL RIGID METALLIC ELECTRICAL CONDUITS THAT TERMINATE IN JUNCTION OR PULL BOXES.

WHEN CONNECTING ON METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED.

PLASTIC PIPE SLEEVE MUST BE AT LEAST TWICE THE O.D. DIAMETER OF THE CONDUIT. SLEEVE TO BE FILLED WITH MATERIAL THAT ALLOWS FOR MOVEMENT OF THE CONDUIT. TO BE SEALED AT F.F. AND B.F. WITH NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.) TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH".

Addendum No. 02
ID 1517-75-72
Added Sheet 466B
June 5, 2017

William C. Dudic 5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

ELECTRICAL DETAILS 2

SHEET 19

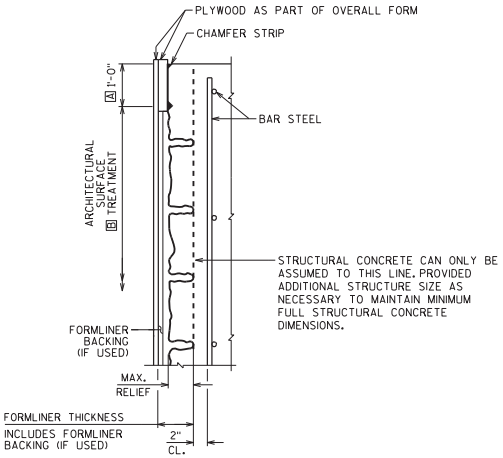
466B

SCALE: 1.000

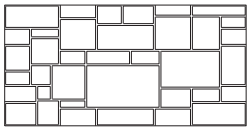
8

8

STATE PROJECT NUMBER
1517-75-72



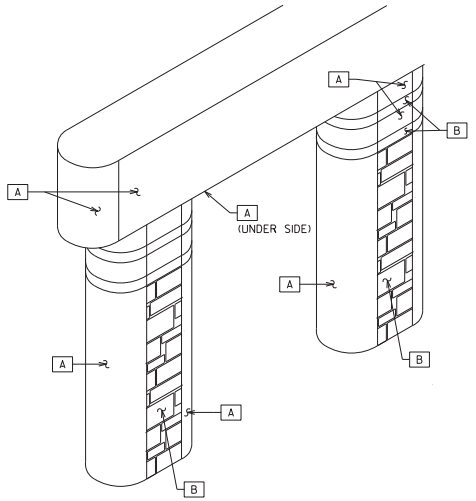
SECTION THROUGH PARAPET FORMLINER



ASHLAR

MAXIMUM RELIEF: 1⅝"
AVERAGE RELIEF: 1¼"
LINER THICKNESS*: 2½"
STONE SIZE: H: 3" - 17"
W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING



PIER STAINING DETAIL

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	FASCIA GIRDERS, DECK EDGE, PLAIN CAPS, ABUT. DIAPH., PIER CAPS AND COLUMNS
B	LATTE	33522	FORMLINER ON PIER COLUMNS, NORTH ABUTMENT AND PARAPET

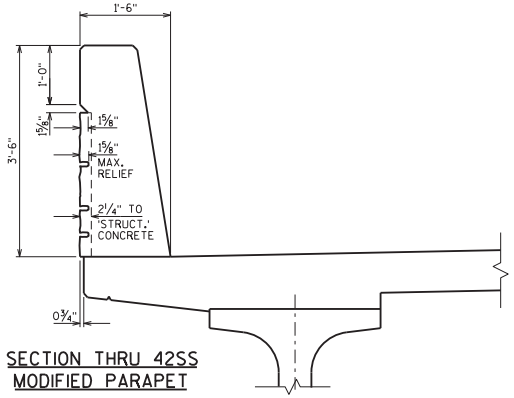
NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)

NOTES

FORMLINER COURSING ON ABUTMENTS AND PIER COLUMNS SHALL BE LEVEL.

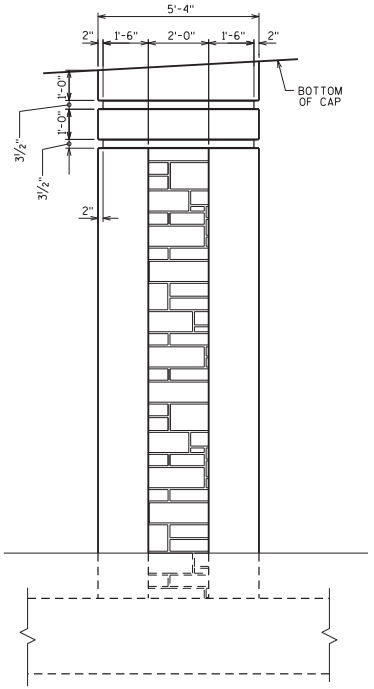
THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.

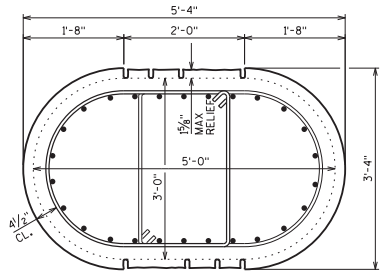


SECTION THRU 42SS MODIFIED PARAPET

Addendum No. 02
ID 1517-75-72
Revised Sheet 468
June 5, 2017



PIER COLUMN DETAILS



AESTHETIC OVAL COLUMN W/ASHLAR FORMLINER

AREA = 13.07 SF (STRUCTURAL)
AREA = 15.39 SF (TOTAL)

5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

AESTHETICS 1

SHEET 20

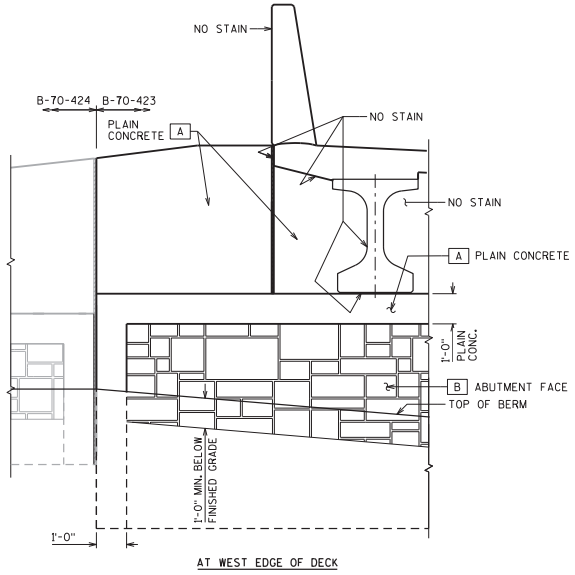
468

SCALE = 1.00

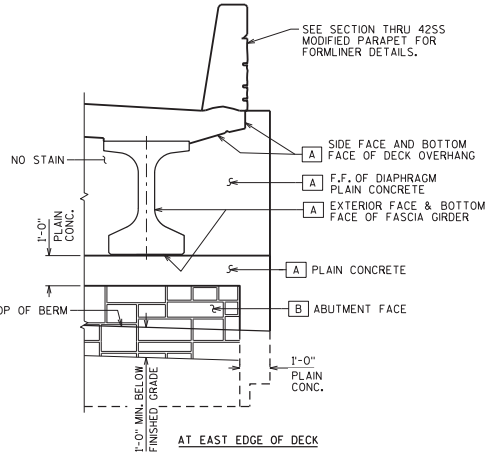
8

8

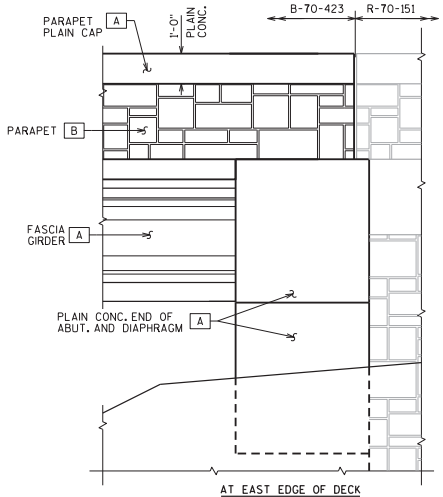
STATE PROJECT NUMBER
1517-75-72



AT WEST EDGE OF DECK

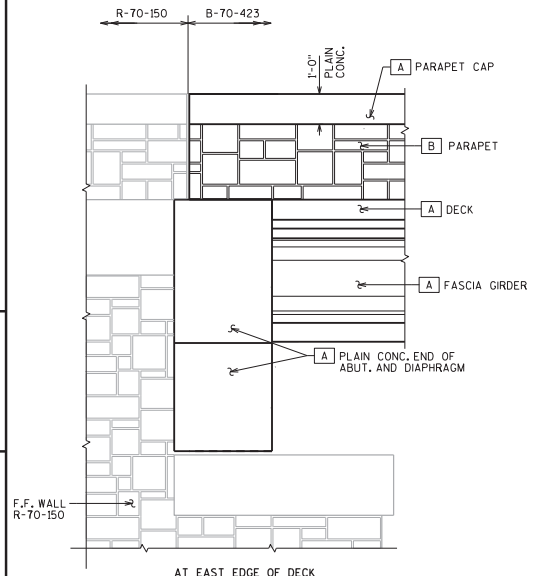


AT EAST EDGE OF DECK

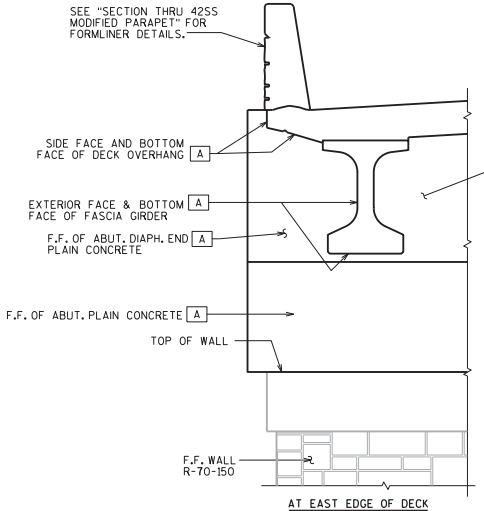


AT EAST EDGE OF DECK

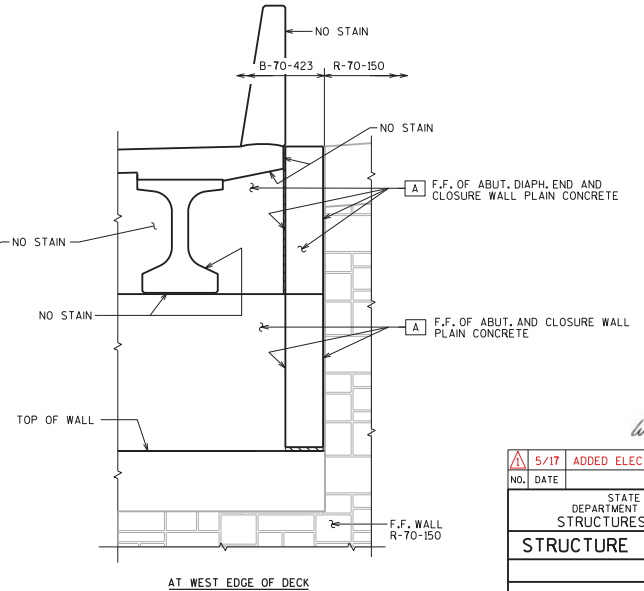
NORTH ABUTMENT AESTHETIC DETAILS



AT EAST EDGE OF DECK



AT EAST EDGE OF DECK



AT WEST EDGE OF DECK

SOUTH ABUTMENT AESTHETIC DETAILS

Addendum No. 02
ID 1517-75-72
Revised Sheet 469
June 5, 2017

8

8

5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

AESTHETICS 2

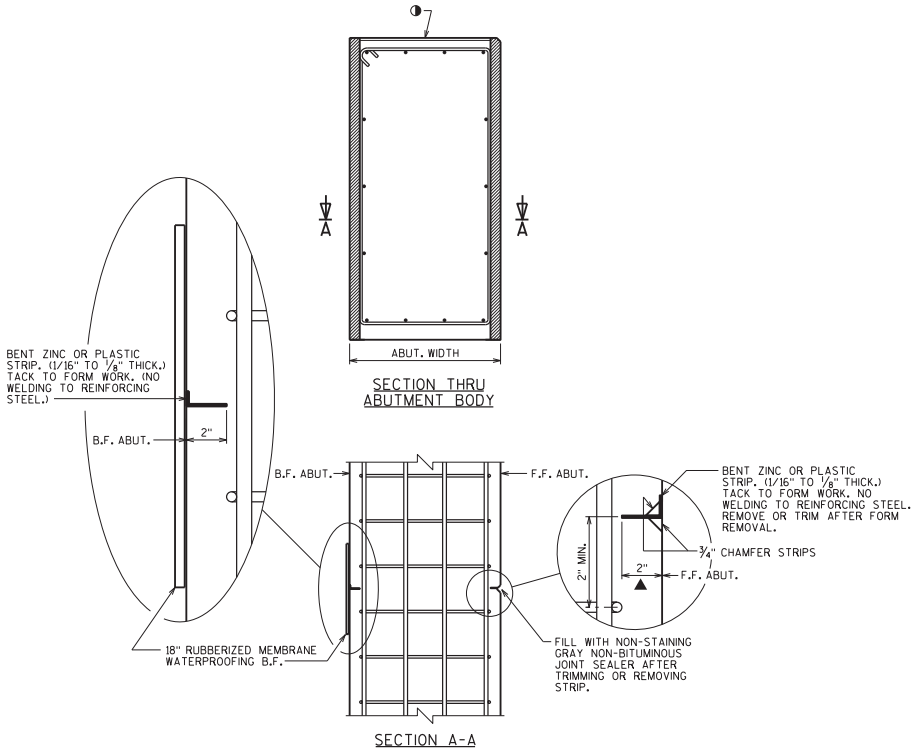
SHEET 21

469

SCALE = 1.00

STATE PROJECT NUMBER
1517-75-72

Addendum No. 02
ID 1517-75-72
Revised Sheet 470
June 5, 2017



ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY ½" DEEP.

▲ DIMENSION IS FOR ABUT. WITHOUT FORMLINER. ADD "MAX RELIEF" DIMENSION FROM "AESTHETICS 1" SHEET TO THIS DIMENSION WHERE FORMLINER IS PRESENT.

William C. Dreher 5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

ALTERNATE CONST. JOINT

SHEET 22 1

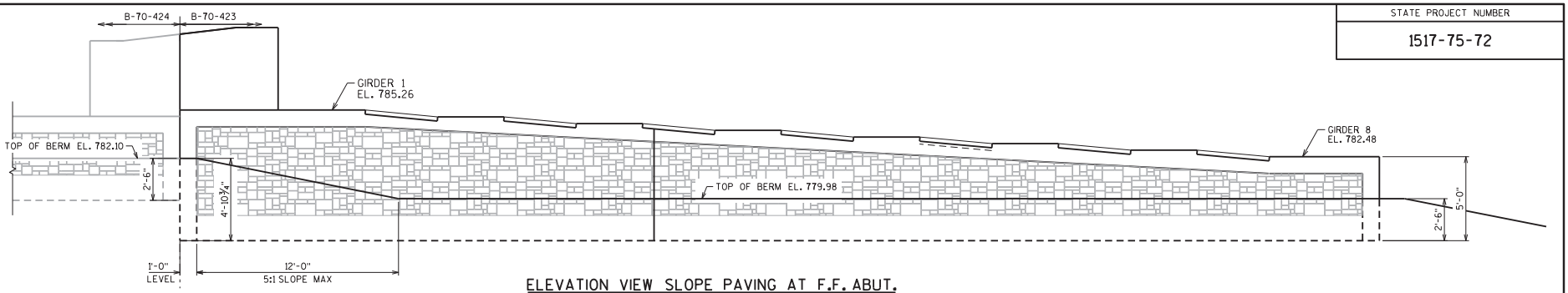
470

8

8

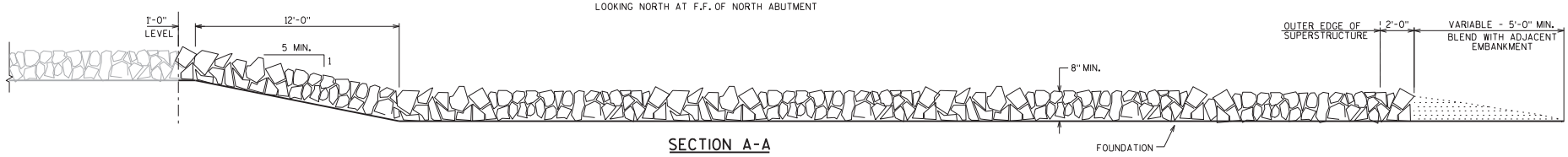
SCALE = 1.00

STATE PROJECT NUMBER
1517-75-72

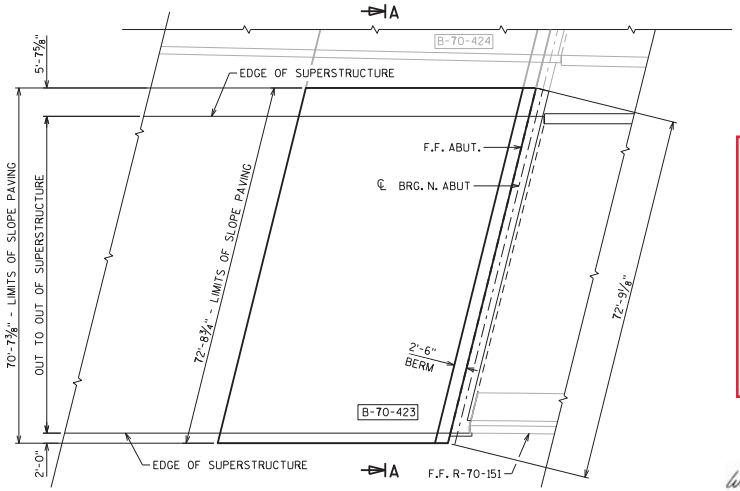


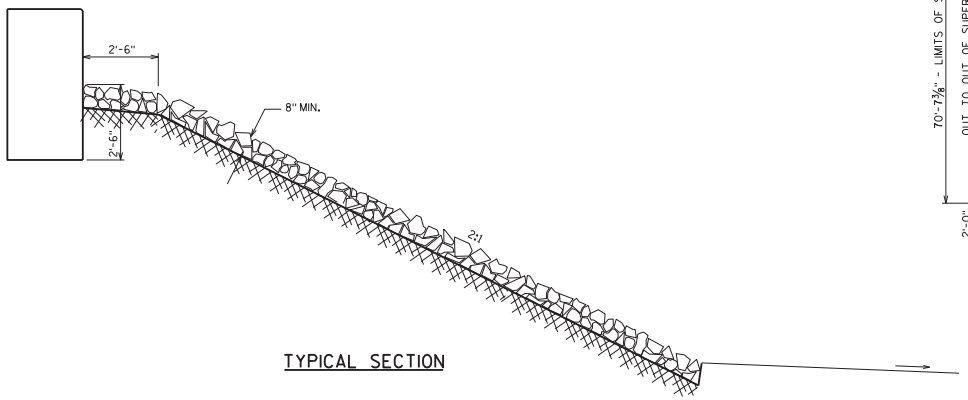
ELEVATION VIEW SLOPE PAVING AT F.F. ABUT.

LOOKING NORTH AT F.F. OF NORTH ABUTMENT



SECTION A-A





TYPICAL SECTION

Addendum No. 02
ID 1517-75-72
Revised Sheet 471
June 5, 2017

William C. Dubie 5/31/17

NO.	DATE	REVISION	BY
1	5/17	ADDED ELECTRICAL DET. SHEET	EMK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. MJK

SHEET 23 1

SLOPE PAVING

471

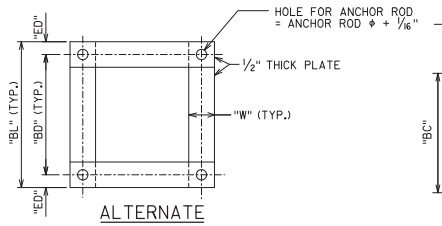
SCALE = 3.00

NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

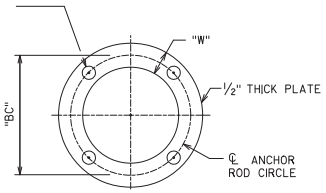
STATE PROJECT NUMBER
1517-75-72



ALTERNATE

ANCHOR PLATE/TOP TEMPLATE

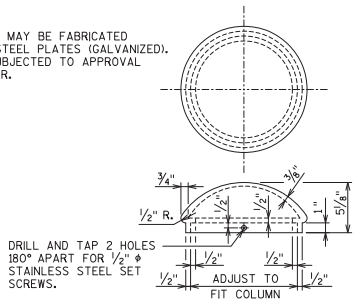
PLAN VIEW



ANCHOR PLATE/TOP TEMPLATE

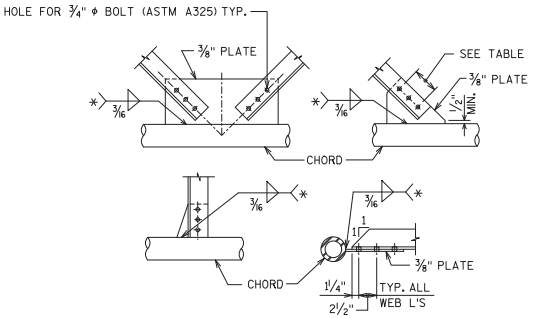
PLAN VIEW

ALTERNATE CAP MAY BE FABRICATED FROM MIN. 3/16" STEEL PLATES (GALVANIZED). DETAILS ARE SUBJECTED TO APPROVAL BY THE ENGINEER.

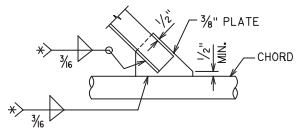


DRILL AND TAP 2 HOLES 180° APART FOR 1/2" ϕ STAINLESS STEEL SET SCREWS.

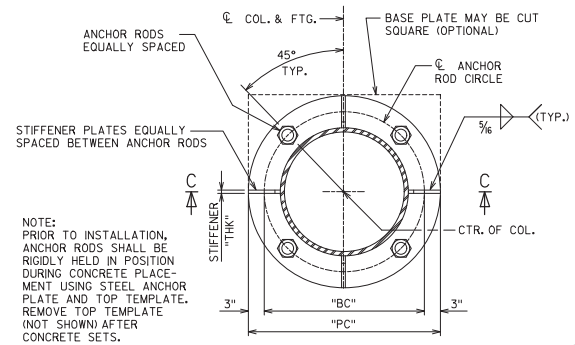
TOWER CAP DETAIL



TYPICAL TRUSS CONNECTION DETAILS



TYPICAL WELDED ALTERNATE

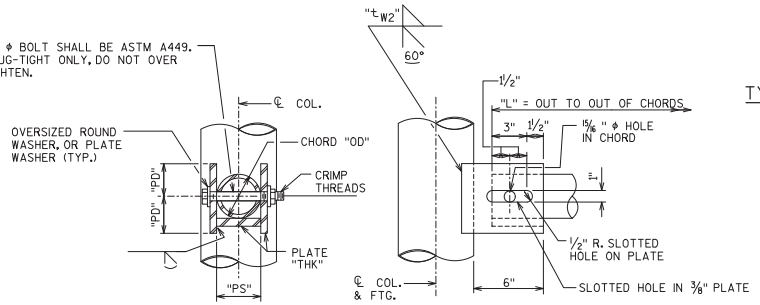


NOTE:
PRIOR TO INSTALLATION, ANCHOR RODS SHALL BE RIGIDLY HELD IN POSITION DURING CONCRETE PLACEMENT USING STEEL ANCHOR PLATE AND TOP TEMPLATE. REMOVE TOP TEMPLATE (NOT SHOWN) AFTER CONCRETE SETS.

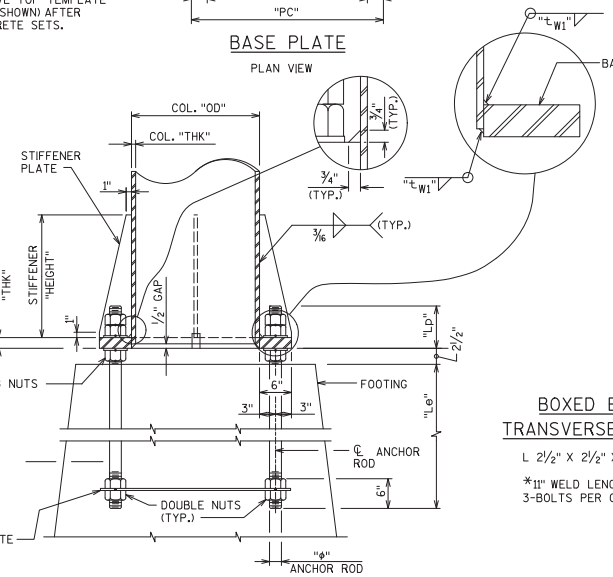
BASE PLATE

PLAN VIEW

7/8" ϕ BOLT SHALL BE ASTM A449. SNUG-TIGHT ONLY, DO NOT OVER TIGHTEN.



TOWER CONNECTION DETAILS



SECTION C-C

BOXED END & TRANSVERSE BRACING

L 2 1/2" X 2 1/2" X 1/4"

*11" WELD LENGTH
3-BOLTS PER CONNECTION

BASE PLATE, COLUMN STIFFENER, ANCHOR ROD & TOWER CONNECTION

STRUCTURE	BASE PLATE					ANCHOR PLATE/TOP TEMPLATE				STIFFENER PLATE		ANCHOR ROD			TOWER CONNECTION			
	"BC"	"PC"	"THK"	"HOLE"	"t W1"	"W"	"BD"	"ED"	"BL"	"THK"	"HEIGHT"	"ϕ"	"Le"	"Lp"	"PD"	"PS"	"THK"	"t W2"
**S-70-218 S-70-226 **S-70-227	20"	26"	1 7/8"	1 13/16"	1/4"	3 1/2"	14 1/8"	1 3/4"	17 5/8"	1/2"	12"	1 3/4"	41"	8"	4 1/16"	6 13/16"	3/8"	3/16"

① ** THESE STRUCTURES REQUIRE ANCHOR BOLT ASSEMBLIES ONLY

WEB MEMBER CONNECTIONS

STRUCTURE	TRUSS WEB			TOWER WEB		
	ANGLE SIZE	*WELD LENGTH	NO. OF BOLTS	ANGLE SIZE	*WELD LENGTH	NO. OF BOLTS
S-70-226	L3X3X3/8	19 1/2"	6	L4X4X3/8	26"	8

Addendum No. 02
ID 1517-75-72
Revised Sheet 533F
June 5, 2017

William C. Dreher SDR
05/31/17

WISCONSIN
MICHAEL J. ARNOLD
E-41717
GREENDALE WI
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	5/22/17	ANCHOR ROD TABLE	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE S-70-218, 226, 227

DRAWN BY JDL | PLANS CK'D. MJA

4-CHORD SIGN BRIDGE DETAILS

SHEET 6 OF 11

533F

DATE: 5/26/2017
I.D.

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-218 RT. Found., 226, 227 RT. Found\sheets\06-S-70-218, 226,

8

8

STATE PROJECT NUMBER
1517-75-72

S-70-220 ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	176
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	30
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	5,830
SPV.0060.850	ANCHOR ASSEMBLIES SIGN BRIDGE	EACH	2

■ PAYMENT FOR EXCAVATION AND BACKFILLING IS INCLUDED WITH "SIGN SUPPORTS CONCRETE MASONRY"

LEGEND

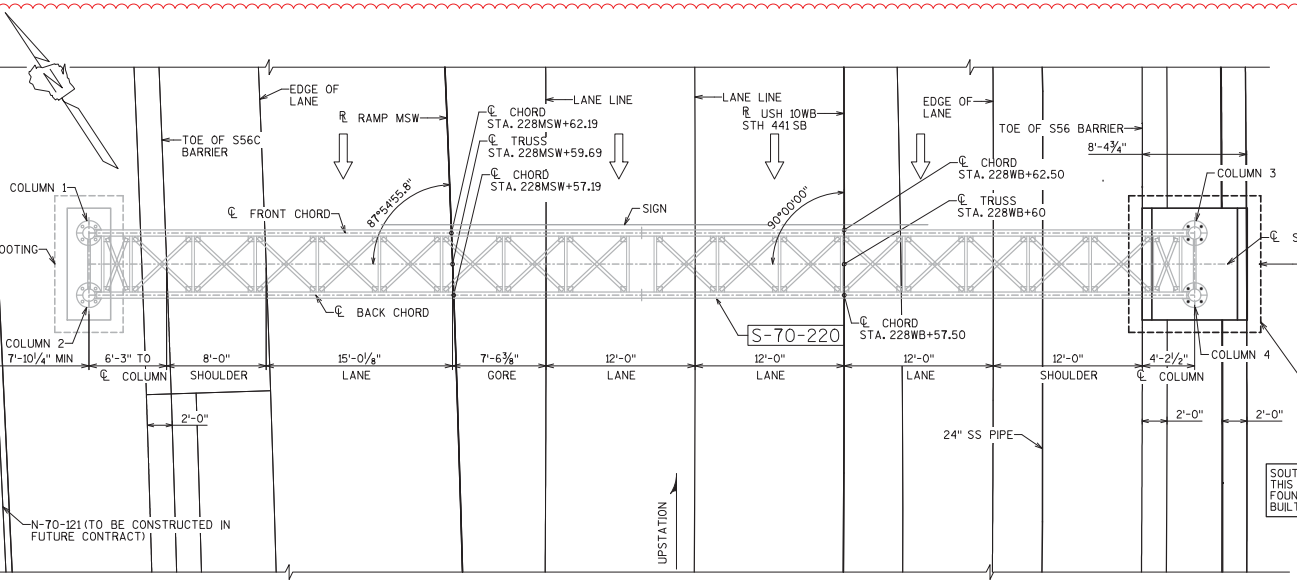
◑ VERTICAL CLEARANCE IS MEASURED FROM THE BOTTOM OF THE PROPOSED SIGN TO THE ROADWAY SURFACE AT THE EDGE OF PROPOSED SIGN. DESIGN VERTICAL CLEARANCE IS 18'-3" FOR A MAXIMUM DEPTH SIGN OF 18'-0" LOCATED OVER THE HIGH POINT OF THE ROADWAY.

SIGN INFORMATION

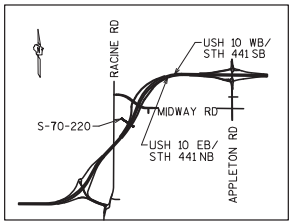
DESIGN SIGN AREA = 1,296 SF
MAX. SIGN DEPTH = 18'-0" (TYPE I SIGN)

(A) 44'-0" X 13'-0" TYPE I SIGN

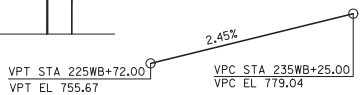
(B) 12'-0" X 2'-6" TYPE I SIGN



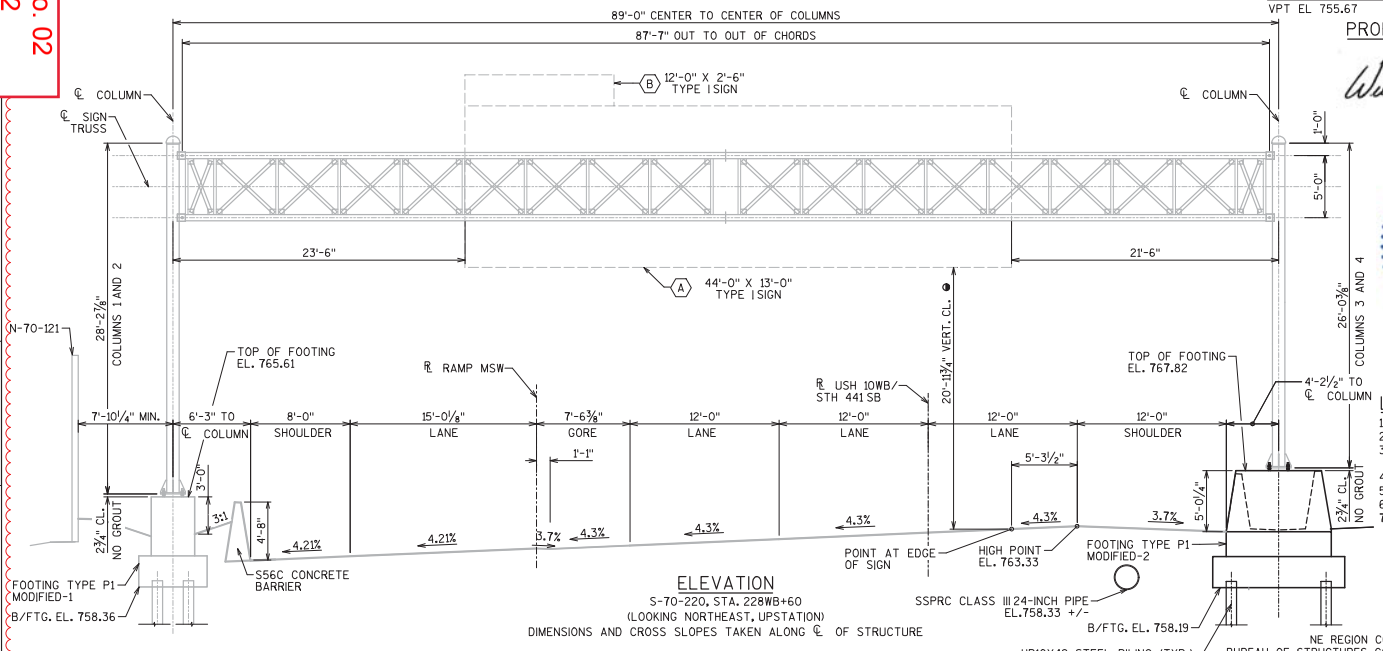
PLAN



LOCATION MAP

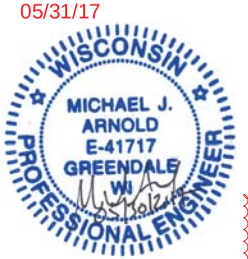


PROFILE USH 10WB/STH 441 SB



ELEVATION
S-70-220, STA. 228WB+60
(LOOKING NORTHEAST, UPSTATION)
DIMENSIONS AND CROSS SLOPES TAKEN ALONG ℄ OF STRUCTURE

William C. Dreher SDR
05/31/17



FOUNDATION DATA

SUPPORT ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTH IS 44 FEET FOR THE SOUTH FOOTING.

PILE INSTALLATION SHALL OCCUR AFTER COMPLETION OF THE THREE MONTH SETTLEMENT PERIOD AFTER FILL PLACEMENT AT THE SIGN STRUCTURE LOCATION.

** 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.

LIST OF DRAWINGS

1. PLAN AND ELEVATION S-70-220
2. PLAN AND ELEVATION S-70-221
3. GENERAL NOTES AND ANCHOR BOLT DETAILS
4. FOOTING TYPE P1 MODIFIED-2
5. FOOTING TYPE P1 MODIFIED-3
6. SUBSURFACE EXPLORATION S-70-220
7. SUBSURFACE EXPLORATION S-70-221

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

AECOM
1555 N RiverCenter Dr.
Suite 214
Milwaukee, WI 53212
(414) 944-6080

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURES S-70-220, 221

USH 10/STH 441

COUNTY WINNEBAGO | TOWN/~~CITY/VILLAGE~~ MENASHA

DESIGN SPEC. AASHTO STANDARD SIGN SPEC, 6th EDITION | LOAD 90 MPH 3 SEC. SPEED

DESIGNED BY | DESIGN CK'D. | DRAWN BY CEB | PLANS CK'D. MJA

PLAN AND ELEVATION S-70-220

SHEET 1 OF 7

533NA

NE REGION CONTACT - SCOTT EBEL (920) 492-5676
BUREAU OF STRUCTURES CONTACT - BILL DREHER (608) 266-8489
CONSULTANT CONTACT - MICHAEL ARNOLD (414) 831-4179

Addendum No. 02
ID 1517-75-72
Added Sheet 533NA
June 5, 2017

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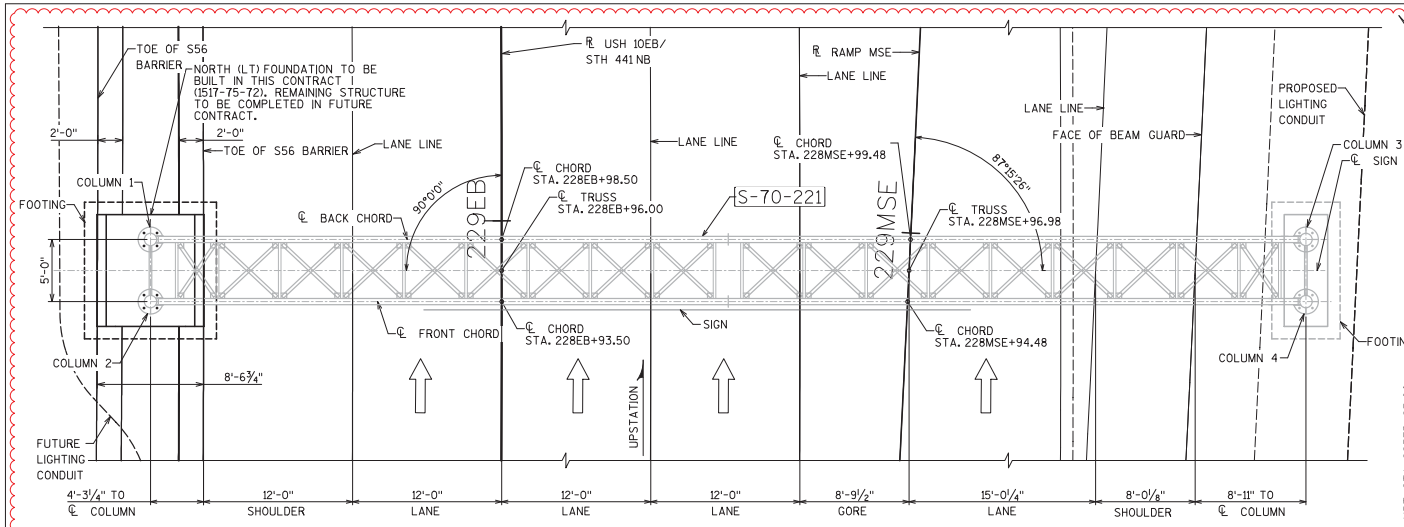
FILE: \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-220 RT Foundation, S-70-221 LT Foundation\Sheets\01-S-70-22

DATE: 5/30/2017

I.D.

Addendum No. 02
ID 1517-75-72
Added Sheet 533NB
June 5, 2017

STATE PROJECT NUMBER
1517-75-72



PLAN

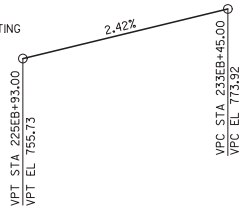
S-70-221 ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	176
◪ 636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	30
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	5,850
SPV.0060.850	ANCHOR ASSEMBLIES SIGN BRIDGE	EACH	2

LEGEND

◑ VERTICAL CLEARANCE IS MEASURED FROM THE BOTTOM OF THE PROPOSED SIGN TO THE ROADWAY SURFACE AT THE EDGE OF PROPOSED SIGN. DESIGN VERTICAL CLEARANCE IS 18'-3" FOR A MAXIMUM DEPTH SIGN OF 18'-0" LOCATED OVER THE HIGH POINT OF THE ROADWAY.

◪ PAYMENT FOR EXCAVATION AND BACKFILLING IS INCLUDED WITH "SIGN SUPPORTS CONCRETE MASONRY"

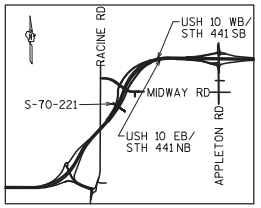


PROFILE USH 10EB/STH 441 NB

SIGN INFORMATION

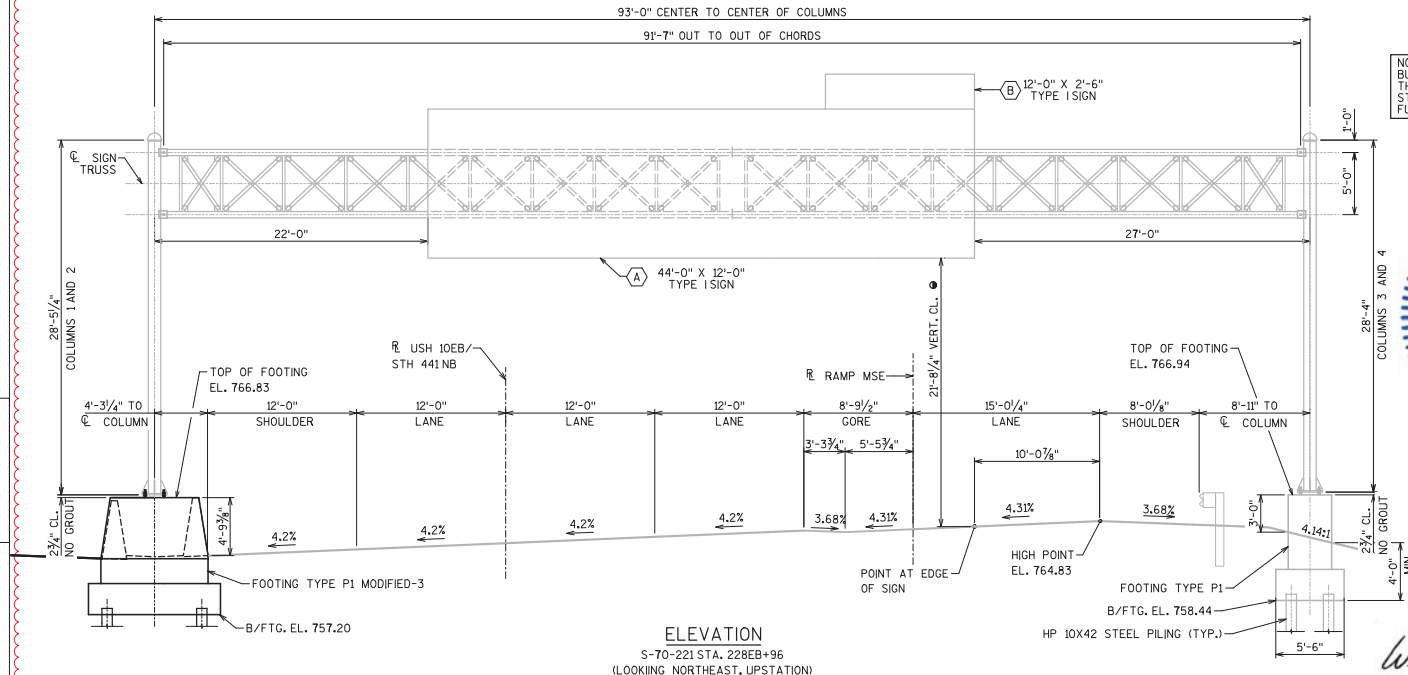
DESIGN SIGN AREA = 1,296 SF
MAX. SIGN DEPTH = 18'-0" (TYPE I SIGN)

Ⓐ 44'-0" X 12'-0" TYPE I SIGN
Ⓑ 12'-0" X 2'-6" TYPE I SIGN



LOCATION MAP

NORTH (LT) FOUNDATION IS TO BE BUILT IN THIS CONTRACT (1517-75-72). THE SOUTH (RT) FOUNDATION AND SIGN STRUCTURE WILL BE BUILT IN A FUTURE CONTRACT.



ELEVATION
S-70-221 STA. 228EB+96
(LOOKING NORTHEAST, UPSTATION)
DIMENSIONS AND CROSS SLOPES TAKEN ALONG ℄ OF STRUCTURE

WISCONSIN PROFESSIONAL ENGINEER
MICHAEL J. ARNOLD
E-41717
GREENDALE WI

FOUNDATION DATA

SUPPORT ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTH IS 44 FEET FOR THE NORTH FOOTING.

PILE INSTALLATION SHALL OCCUR AFTER COMPLETION OF THE THREE MONTH SETTLEMENT PERIOD AFTER FILL PLACEMENT AT THE SIGN STRUCTURE LOCATION.

** 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.

William C. Drecher SDR
05/31/17

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-220, 221

DRAWN BY CEB | PLANS CK'D. MJA

PLAN AND ELEVATION S-70-221

SHEET 2 OF 7

533NB

DATE: 5/30/2017
I.D.

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-220 RT Foundation, S-70-221 LT Foundation\Sheets\02 S-70-22

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STATE PROJECT NUMBER
1517-75-72

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

ELEVATIONS ARE IN FEET UNLESS OTHERWISE SHOWN OR NOTED.

ALL DIMENSIONS ARE IN SURVEY FEET AND SURVEY INCHES UNLESS OTHERWISE SHOWN OR NOTED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STRUCTURAL STEEL MEMBERS, PLATES, ANCHOR RODS, H.S. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.

CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF STRUCTURE.

EXACT LOCATION OF SIGN BRIDGE SHALL BE DETERMINED BY THE REGION TRAFFIC ENGINEER.

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTINGS.

EXCAVATION AND BACKFILLING REQUIRED TO CONSTRUCT THE CONCRETE FOOTINGS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".

PAYMENT FOR "ANCHOR ASSEMBLIES SIGN BRIDGE" INCLUDES PROVIDING AND INSTALLING ANCHOR RODS, HEAVY HEX NUTS, WASHERS, STEEL ANCHOR PLATES AND STEEL TEMPLATES AS SHOWN IN THE PLAN.

DESIGN DATA

DEAD LOAD - 3 PSF OF SIGN AND WT. OF SUPPORTING STRUCTURE. NO PROVISIONS HAVE BEEN INCLUDED FOR A CATWALK, LIGHTING, OR RAILINGS.

LIVE LOAD - NONE.

ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.

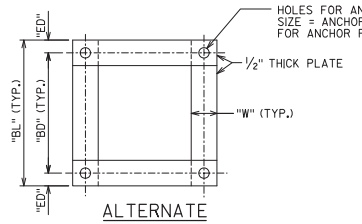
WIND PRESSURE - 90 MPH (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.

DESIGNED ACCORDING TO THE 6TH EDITION AND INTERIM REVISIONS OF AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS."

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY.....f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 P.S.I.
ANCHOR RODS, ASTM F1554, GRADE 55.....fy = 55,000 P.S.I.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.

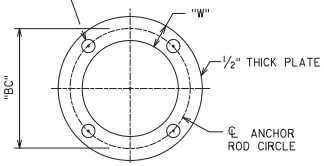
Addendum No. 02
ID 1517-75-72
Added Sheet 533NC
June 5, 2017



ALTERNATE

ANCHOR PLATE/TOP TEMPLATE

PLAN VIEW

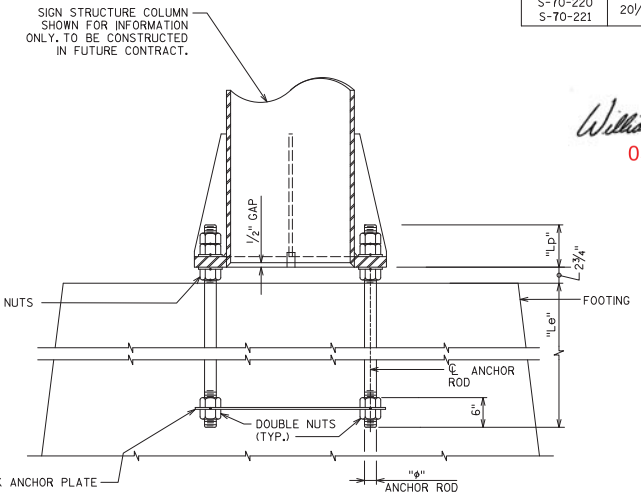


ANCHOR PLATE/TOP TEMPLATE

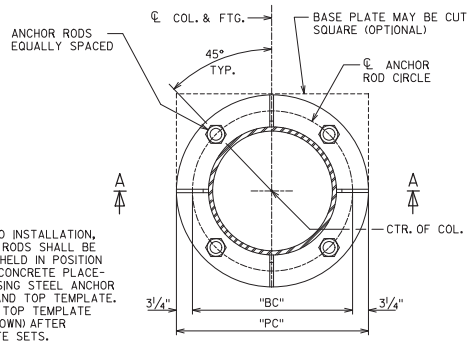
PLAN VIEW

ANCHOR ROD & BASE PLATE

STRUCTURE	BASE PLATE		ANCHOR PLATE/TOP TEMPLATE				ANCHOR ROD		
	"BC"	"PC"	"W"	"BD"	"ED"	"BL"	"ϕ"	"Le"	"Lp"
S-70-220 S-70-221	20½"	27"	4"	14½"	2"	18½"	2"	46"	8"



SECTION A-A



NOTE:
PRIOR TO INSTALLATION, ANCHOR RODS SHALL BE RIGIDLY HELD IN POSITION DURING CONCRETE PLACEMENT USING STEEL ANCHOR PLATE AND TOP TEMPLATE. REMOVE TOP TEMPLATE (NOT SHOWN) AFTER CONCRETE SETS.

BASE PLATE

PLAN VIEW
(BASE PLATE PROVIDED UNDER FUTURE CONTRACT)

William C. Drehen SDR
05/31/17

WISCONSIN
MICHAEL J. ARNOLD
E-41717
GREENDALE WI
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-220, 221

DRAWN BY CEB | PLANS CK'D. MJA

GENERAL NOTES AND ANCHOR BOLT DETAILS

SHEET 3 OF 7

533NC

DATE: 5/30/2017
I.D.

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-220 RT Foundation, S-70-221 LT Foundation\Sheets\03 general

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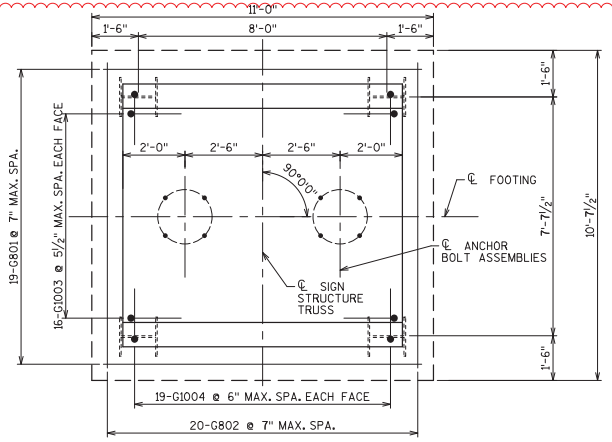
Addendum No. 02
ID 1517-75-72
Added Sheet 533ND
June 5, 2017

STATE PROJECT NUMBER
1517-75-72



PLAN

(BARS IN FOOTING SHOWN. BARS IN STEM AND CAP NOT SHOWN FOR CLARITY.)

BILL OF BARS

NOTE: THESE BARS ARE FOR S-70-220 AND S-70-221 P1 MODIFIED-2 AND P1 MODIFIED-3 FOOTINGS.

BAR MARK	NO. REQ'D	LENGTH	BENT	COATED	BAR SERIES	LOCATION
G801	38	10'-8"		X		FOOTING LONGITUDINAL (P1 MODIFIED-2 & 3)
G802	40	10'-3"		X		FOOTING TRANSVERSE (P1 MODIFIED-2 & 3)
G1003	64	10'-3"	X	X		FOOTING DOWELS (P1 MODIFIED-2 & 3)
G1004	76	10'-3"	X	X		FOOTING DOWELS (P1 MODIFIED-2 & 3)
G505	9	12'-3"	X	X		STEM TRANSVERSE (P1 MODIFIED-2)
G706	22	20'-4"	X	X	X	STEM LONGITUDINAL (P1 MODIFIED-2)
G407	32	13'-2"	X	X		STEM LONGITUDINAL (P1 MODIFIED-2 & 3)
G708	10	21'-2"	X	X		STEM LONGITUDINAL (P1 MODIFIED-2)
G509	9	12'-5"	X	X		STEM TRANSVERSE (P1 MODIFIED-3)
G710	22	20'-6"	X	X	X	STEM LONGITUDINAL (P1 MODIFIED-3)
G711	10	21'-4"	X	X		STEM LONGITUDINAL (P1 MODIFIED-3)
G612	16	4'-8"	X	X		FOOTING UPLIFT BARS (P1 MODIFIED-2 & 3)

TOTAL WEIGHT COATED BARS = 11680.00

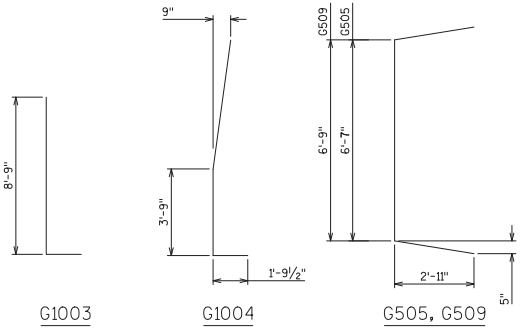
BAR SERIES TABLE

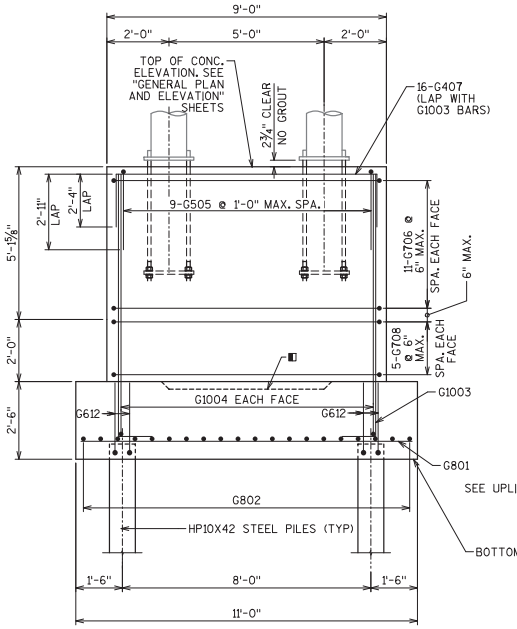
BAR MARK	NO. REQUIRED	LENGTH
G706	2 SERIES OF 11	19'-8" TO 21'-0"
G710	2 SERIES OF 11	19'-10" TO 21'-2"

PILE NOTE

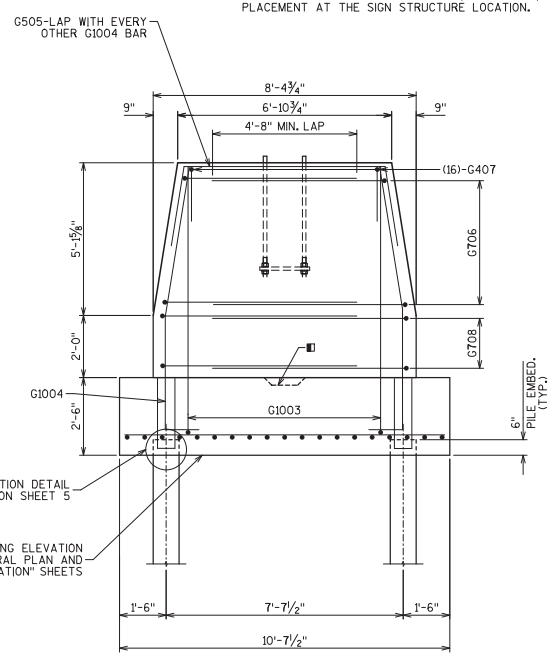
SUPPORT THE S-70-220 SOUTH FOOTING ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTH IS 44 FEET FOR THE SOUTH FOOTING.

PILE INSTALLATION SHALL OCCUR AFTER COMPLETION OF THE THREE MONTH SETTLEMENT PERIOD AFTER FILL PLACEMENT AT THE SIGN STRUCTURE LOCATION.





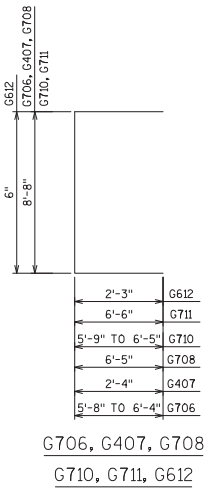
ELEVATION



END VIEW

(LOOKING UPSTATION)

◧ KEYWAY FORMED BY SURFACED, BEVELED 2" X 10" X 5'LONG



G706, G407, G708

G710, G711, G612

GENERAL NOTES

SEE SHEET 5 FOR PILE SPLICE DETAILS.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CL. UNLESS OTHERWISE SHOWN.

CONCRETE MASONRY.....F'C = 3,500 PSI

BAR STEEL REINFORCEMENT, GRADE 60.....FY = 60,000 PSI

ANCHOR BOLTS ASTM F1554 GRADE 55....FY = 55,000 PSI

William C. Dreher SDR
05/31/17

WISCONSIN
MICHAEL J. ARNOLD
E-41717
GREENDALE WI
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-220, 221

DRAWN BY CEB | PLANS CK'D. MJA

FOOTING TYPE P1 MODIFIED-2

SHEET 4 OF 7

533ND

8

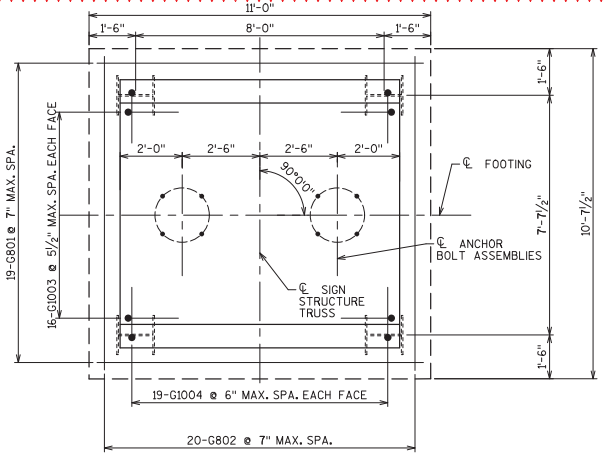
8

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-220 RT Foundation, S-70-221 LT Foundation\Sheets\04-Footing

DATE: 5/30/2017

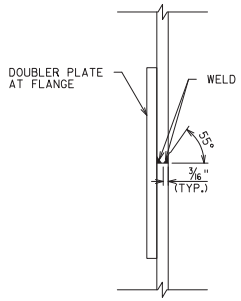
I.D.

STATE PROJECT NUMBER
1517-75-72



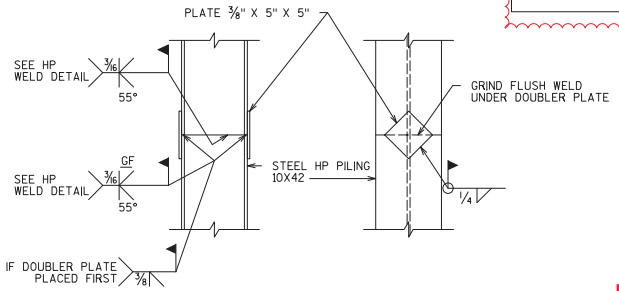
PLAN

(BARS IN FOOTING SHOWN. BARS IN STEM AND CAP NOT SHOWN FOR CLARITY.)

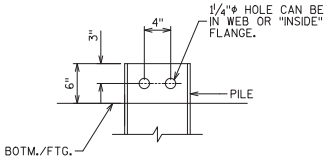


HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

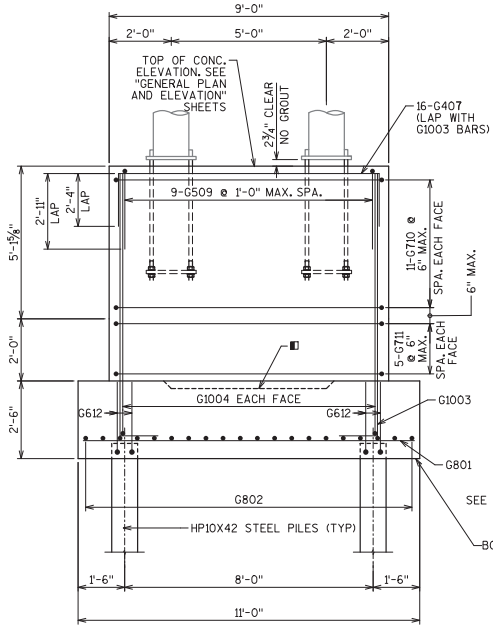


PILE SPLICE DETAIL

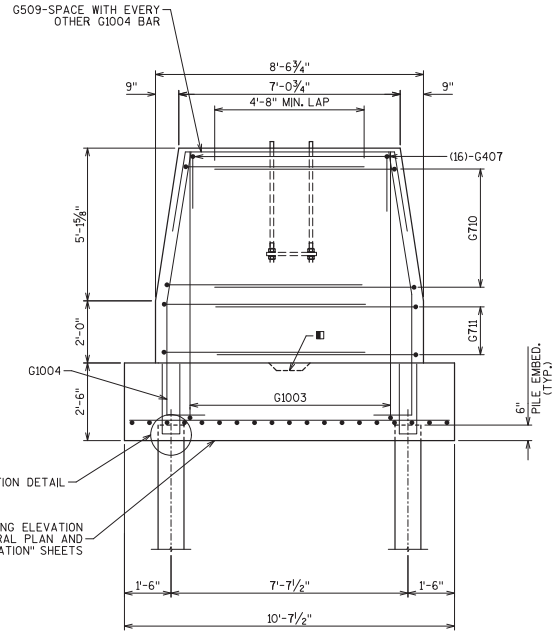


UPLIFT CONNECTION DETAIL

SEE FOOTING ELEVATION VIEWS FOR REQUIRED REINFORCEMENT



ELEVATION



END VIEW

(LOOKING UPSTATION)

◧ KEYWAY FORMED BY SURFACED, BEVELED 2" X 10" X 5'LONG

PILE NOTE

SUPPORT THE S-70-221 NORTH FOOTING ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTH IS 44 FEET FOR THE NORTH FOOTING.

PILE INSTALLATION SHALL OCCUR AFTER COMPLETION OF THE THREE MONTH SETTLEMENT PERIOD AFTER FILL PLACEMENT AT THE SIGN STRUCTURE LOCATION.

GENERAL NOTES

SEE SHEET 4 FOR BILL OF BARS.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CL. UNLESS OTHERWISE SHOWN.

CONCRETE MASONRY.....F'C = 3,500 PSI

BAR STEEL REINFORCEMENT, GRADE 60.....FY = 60,000 PSI

ANCHOR BOLTS ASTM F1554 GRADE 55....FY = 55,000 PSI

Addendum No. 02
ID 1517-75-72
Added Sheet 533NE
June 5, 2017

William C. Dreher SDR
05/31/17

WISCONSIN
MICHAEL J. ARNOLD
E-41717
GREENDALE WI
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-220, 221

DRAWN BY CEB | PLANS CK'D. MJA

FOOTING
TYPE P1
MODIFIED-3

SHEET 5 OF 7

533NE

8

8

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-220 RT Foundation, S-70-221 LT Foundation\Sheets\05-Footings

DATE: 5/30/2017

WIS 441
Winnebago, WI

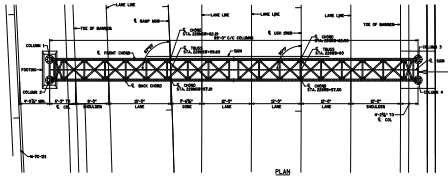
NOTE:
THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

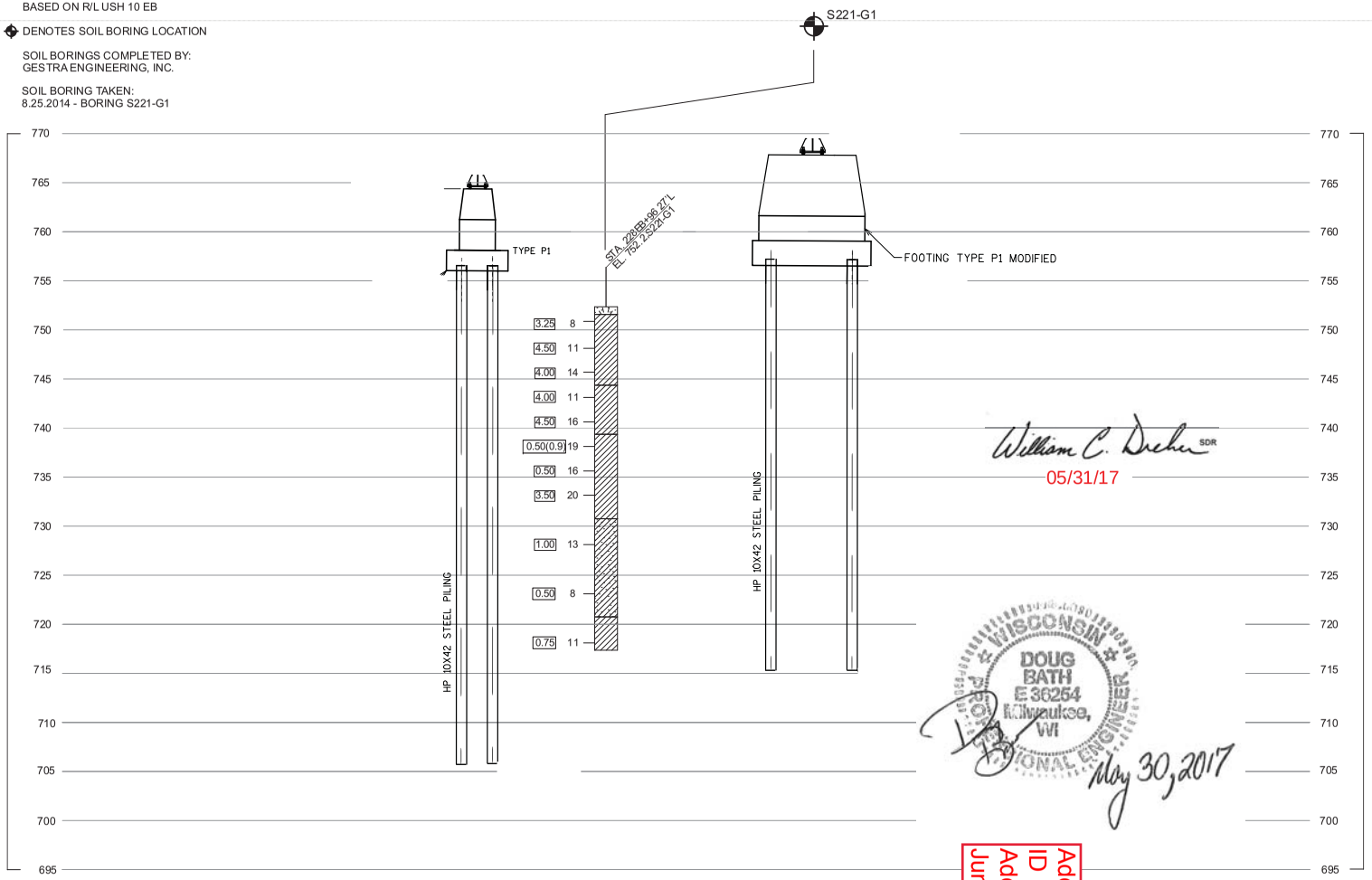
BORING STATIONS AND OFFSETS ARE BASED ON R/L USH 10 EB

◆ DENOTES SOIL BORING LOCATION

SOIL BORINGS COMPLETED BY:
GESTRA ENGINEERING, INC.

SOIL BORING TAKEN:
8.25.2014 - BORING S221-G1





NOTE: ▽ - WATER LEVEL ASSUMED BASED ON SAMPLE CONDITION

William C. Dreher SDR
05/31/17

WISCONSIN
DOUG BATH
E-36254
Milwaukee, WI
PROFESSIONAL ENGINEER
May 30, 2017

Addendum No. 02
ID 1517-75-72
Added Sheet 533NF
June 5, 2017

STATE PROJECT NUMBER

1517-75-72

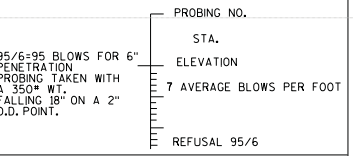
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

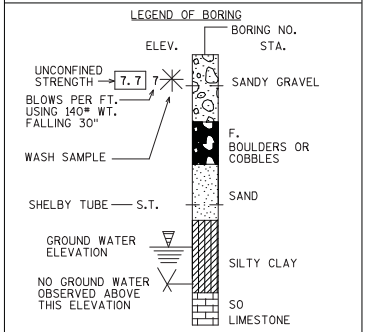
MATERIAL SYMBOLS

TOPSOIL SILT FAT CLAY
SAND PEAT DOLOMITE
GRAVEL CLAY FILL

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

1

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-70-220

DRAWN BY RH | PLANS CK'D. DJB

SUBSURFACE EXPLORATION

SHEET 6 OF 7

533NF

SCALE 1"=10'

8

8

WIS 441
Winnebago, WI

NOTE:

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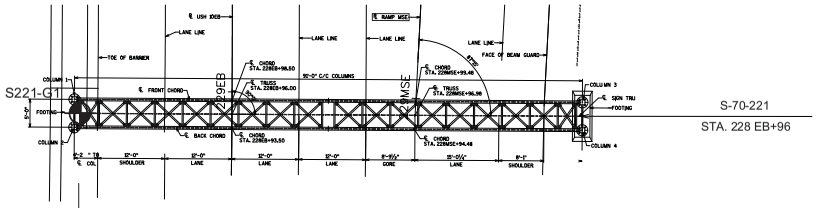
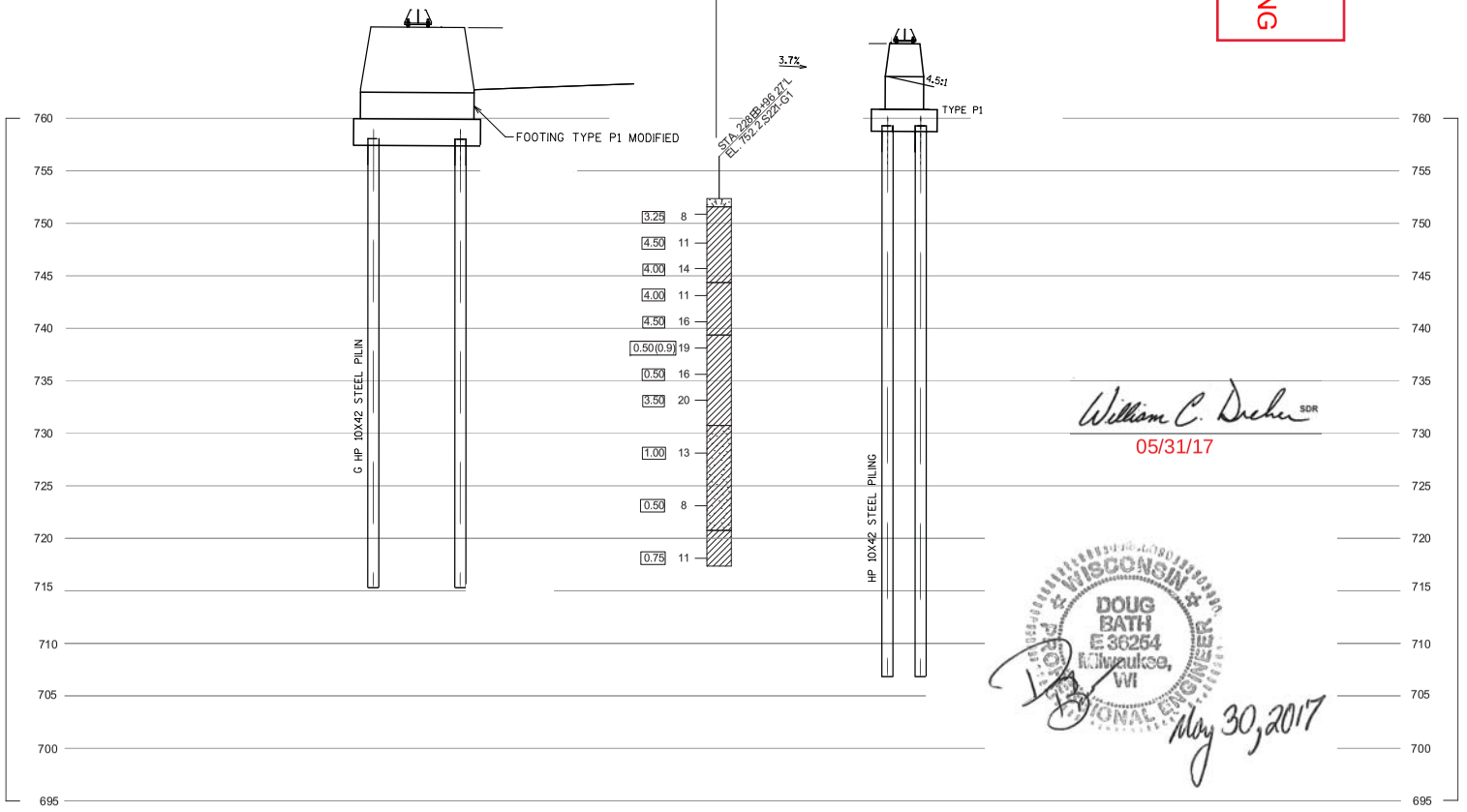


Addendum No. 02
ID 1517-75-72
Added Sheet 533NG
June 5, 2017



NOTE: ▽ - WATER LEVEL ASSUMED BASED ON SAMPLE CONDITION

William C. Dreher SDR
05/31/17

STATE PROJECT NUMBER

1517-75-72

ABBREVIATIONS

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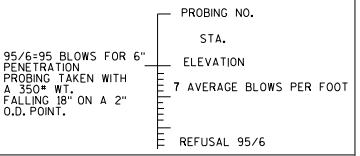
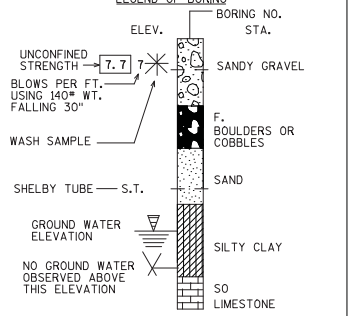
GRAVEL CLAY FILL

LEGEND OF PROBING



LEGEND OF BORING



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SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

1

NO.	DATE	REVISION	BY
1	5/24/17	ADDED STRUCTURES TO CONTRACT	CEB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-70-221

DRAWN BY RH PLANS CK'D. DJB

SUBSURFACE EXPLORATION

SHEET 7 of 7

533NG

SCALE 1"=30'

8

8

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0010	201.0105 Clearing	23.000 STA	_____._____	_____._____
0020	201.0205 Grubbing	23.000 STA	_____._____	_____._____
0030	203.0100 Removing Small Pipe Culverts	14.000 EACH	_____._____	_____._____
0040	203.0200 Removing Old Structure (station) 01. 241EBT+51	LS	LUMP SUM	_____._____
0050	203.0200 Removing Old Structure (station) 02. 241WBT+71	LS	LUMP SUM	_____._____
0060	204.0100 Removing Pavement	45,116.000 SY	_____._____	_____._____
0070	204.0110 Removing Asphaltic Surface	41,330.000 SY	_____._____	_____._____
0080	204.0150 Removing Curb & Gutter	1,234.000 LF	_____._____	_____._____
0090	204.0165 Removing Guardrail	272.000 LF	_____._____	_____._____
0100	204.0170 Removing Fence	4,229.000 LF	_____._____	_____._____
0110	204.0175 Removing Concrete Slope Paving	715.000 SY	_____._____	_____._____
0120	204.0180 Removing Delineators and Markers	50.000 EACH	_____._____	_____._____
0130	204.0190 Removing Surface Drains	2.000 EACH	_____._____	_____._____
0140	204.0210 Removing Manholes	1.000 EACH	_____._____	_____._____
0150	204.0220 Removing Inlets	17.000 EACH	_____._____	_____._____
0160	204.0245 Removing Storm Sewer (size) 01. 6-Inch to 18-Inch	1,258.000 LF	_____._____	_____._____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0170	204.0245 Removing Storm Sewer (size) 02. 21-Inch to 30-Inch	517.000 LF	_____._____	_____._____
0180	205.0100 Excavation Common	327,003.000 CY	_____._____	_____._____
0190	206.1000 Excavation for Structures Bridges (structure) 01. B-70-423	LS	LUMP SUM	_____._____
0200	206.1000 Excavation for Structures Bridges (structure) 02. B-70-424	LS	LUMP SUM	_____._____
0210	210.1500 Backfill Structure Type A	1,627.000 TON	_____._____	_____._____
0220	213.0100 Finishing Roadway (project) 01. 1517-75-72	1.000 EACH	_____._____	_____._____
0230	305.0110 Base Aggregate Dense 3/4-Inch	9,471.000 TON	_____._____	_____._____
0240	305.0120 Base Aggregate Dense 1 1/4-Inch	16,540.000 TON	_____._____	_____._____
0250	311.0110 Breaker Run	77,749.000 TON	_____._____	_____._____
0260	320.0155 Concrete Base 9-Inch	755.000 SY	_____._____	_____._____
0270	415.0410 Concrete Pavement Approach Slab	120.000 SY	_____._____	_____._____
0280	416.1010 Concrete Surface Drains	8.000 CY	_____._____	_____._____
0290	440.4410 Incentive IRI Ride	15,150.000 DOL	1.00000	15,150.00
0300	455.0605 Tack Coat	371.000 GAL	_____._____	_____._____
0310	460.2000 Incentive Density HMA Pavement	1,450.000 DOL	1.00000	1,450.00
0320	460.5223 HMA Pavement 3 LT 58-28 S	752.000 TON	_____._____	_____._____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0330	460.5224 HMA Pavement 4 LT 58-28 S	474.000 TON	_____.____	_____.____
0340	460.7423 HMA Pavement 3 HT 58-28 H	607.000 TON	_____.____	_____.____
0350	460.7424 HMA Pavement 4 HT 58-28 H	222.000 TON	_____.____	_____.____
0360	465.0105 Asphaltic Surface	1,084.000 TON	_____.____	_____.____
0370	501.1000.S Ice Hot Weather Concreting	10,950.000 LB	_____.____	_____.____
0380	502.3200 Protective Surface Treatment	3,791.000 SY	_____.____	_____.____
0390	502.3210 Pigmented Surface Sealer	1,168.000 SY	_____.____	_____.____
0400	503.0146 Prestressed Girder Type I 45W-Inch	3,158.000 LF	_____.____	_____.____
0410	504.0500 Concrete Masonry Retaining Walls	847.000 CY	_____.____	_____.____
0420	505.0400 Bar Steel Reinforcement HS Structures	22,210.000 LB	_____.____	_____.____
0430	505.0600 Bar Steel Reinforcement HS Coated Structures	345,760.000 LB	_____.____	_____.____
0440	506.2605 Bearing Pads Elastomeric Non-Laminated	68.000 EACH	_____.____	_____.____
0450	506.4000 Steel Diaphragms (structure) 01. B-70-423	28.000 EACH	_____.____	_____.____
0460	506.4000 Steel Diaphragms (structure) 02. B-70-424	24.000 EACH	_____.____	_____.____
0470	511.1200 Temporary Shoring (structure) 01. S-70-0218	160.000 SF	_____.____	_____.____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0480	513.2001 Railing Pipe (structure) 01. R-70-150	14.000 LF	_____.____	_____.____
0490	516.0500 Rubberized Membrane Waterproofing	138.000 SY	_____.____	_____.____
0500	517.1010.S Concrete Staining (structure) 01. B-70-423	5,315.000 SF	_____.____	_____.____
0510	517.1010.S Concrete Staining (structure) 02. B-70-424	5,425.000 SF	_____.____	_____.____
0520	517.1010.S Concrete Staining (structure) 03. R-70-150	6,415.000 SF	_____.____	_____.____
0530	517.1010.S Concrete Staining (structure) 04. R-70-151	755.000 SF	_____.____	_____.____
0540	517.1010.S Concrete Staining (structure) 05. R-70-142	16,785.000 SF	_____.____	_____.____
0550	517.1050.S Architectural Surface Treatment (structure) 01. B-70-423	975.000 SF	_____.____	_____.____
0560	517.1050.S Architectural Surface Treatment (structure) 02. B-70-424	1,140.000 SF	_____.____	_____.____
0570	517.1050.S Architectural Surface Treatment (structure) 03. R-70-150	5,065.000 SF	_____.____	_____.____
0580	517.1050.S Architectural Surface Treatment (structure) 04. R-70-151	462.000 SF	_____.____	_____.____
0590	517.1050.S Architectural Surface Treatment (structure) 05. R-70-142	12,115.000 SF	_____.____	_____.____
0600	520.8000 Concrete Collars for Pipe	11.000 EACH	_____.____	_____.____
0610	521.0112 Culvert Pipe Corrugated Steel 12-Inch	33.000 LF	_____.____	_____.____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0620	521.0118 Culvert Pipe Corrugated Steel 18-Inch	162.000 LF	_____.____	_____.____
0630	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	1.000 EACH	_____.____	_____.____
0640	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	1.000 EACH	_____.____	_____.____
0650	521.2005.S Surface Drain Pipe Corrugated Metal Slotted (inch) 01. 12-INCH	112.000 LF	_____.____	_____.____
0660	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	274.000 LF	_____.____	_____.____
0670	522.0148 Culvert Pipe Reinforced Concrete Class III 48-Inch	80.000 LF	_____.____	_____.____
0680	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	3.000 EACH	_____.____	_____.____
0690	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	8.000 EACH	_____.____	_____.____
0700	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	5.000 EACH	_____.____	_____.____
0710	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	1.000 EACH	_____.____	_____.____
0720	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	2.000 EACH	_____.____	_____.____
0730	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	4.000 EACH	_____.____	_____.____
0740	525.0336 Apron Endwalls for Aluminum Culvert Pipe 36-Inch	1.000 EACH	_____.____	_____.____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0750	531.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 01. N-70-132	11,600.000 SF	_____.____	_____.____
0760	550.0010 Pre-Boring Unconsolidated Materials	80.000 LF	_____.____	_____.____
0770	550.1100 Piling Steel HP 10-Inch X 42 Lb	492.000 LF	_____.____	_____.____
0780	550.1120 Piling Steel HP 12-Inch X 53 Lb	5,240.000 LF	_____.____	_____.____
0790	601.0411 Concrete Curb & Gutter 30-Inch Type D	890.000 LF	_____.____	_____.____
0800	603.1132 Concrete Barrier Type S32	753.000 LF	_____.____	_____.____
0810	603.1156 Concrete Barrier Type S56	3,362.000 LF	_____.____	_____.____
0820	603.3513 Concrete Barrier Transition Type S32 to S36	1.000 EACH	_____.____	_____.____
0830	603.3535 Concrete Barrier Transition Type S36 to S42	1.000 EACH	_____.____	_____.____
0840	603.8000 Concrete Barrier Temporary Precast Delivered	36,774.000 LF	_____.____	_____.____
0850	603.8125 Concrete Barrier Temporary Precast Installed	36,774.000 LF	_____.____	_____.____
0860	604.0400 Slope Paving Concrete	36.000 SY	_____.____	_____.____
0870	604.0600 Slope Paving Select Crushed Material	705.000 SY	_____.____	_____.____
0880	606.0200 Riprap Medium	64.000 CY	_____.____	_____.____
0890	606.0300 Riprap Heavy	18.000 CY	_____.____	_____.____

Proposal ID: 20170613030 Project(s): 1517-75-72

Federal ID(s): WISC 2017345

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0900	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	1,845.000 LF	_____.____	_____.____
0910	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	766.000 LF	_____.____	_____.____
0920	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	4,011.000 LF	_____.____	_____.____
0930	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	161.000 LF	_____.____	_____.____
0940	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	261.000 LF	_____.____	_____.____
0950	611.0410 Reconstructing Catch Basins	1.000 EACH	_____.____	_____.____
0960	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0970	611.0535 Manhole Covers Type J-Special	12.000 EACH	_____.____	_____.____
0980	611.0642 Inlet Covers Type MS	8.000 EACH	_____.____	_____.____
0990	611.0654 Inlet Covers Type V	71.000 EACH	_____.____	_____.____
1000	611.1005 Catch Basins 5-FT Diameter	5.000 EACH	_____.____	_____.____
1010	611.2004 Manholes 4-FT Diameter	7.000 EACH	_____.____	_____.____
1020	611.2005 Manholes 5-FT Diameter	4.000 EACH	_____.____	_____.____
1030	611.3004 Inlets 4-FT Diameter	21.000 EACH	_____.____	_____.____
1040	611.3225 Inlets 2x2.5-FT	44.000 EACH	_____.____	_____.____

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1050	611.3902 Inlets Median 2 Grate	4.000 EACH	_____.____	_____.____
1060	612.0406 Pipe Underdrain Wrapped 6-Inch	2,025.000 LF	_____.____	_____.____
1070	614.0150 Anchor Assemblies for Steel Plate Beam Guard	4.000 EACH	_____.____	_____.____
1080	614.0397 Guardrail Mow Strip Emulsified Asphalt	696.000 SY	_____.____	_____.____
1090	614.0905 Crash Cushions Temporary	6.000 EACH	_____.____	_____.____
1100	614.2300 MGS Guardrail 3	1,395.000 LF	_____.____	_____.____
1110	614.2500 MGS Thrie Beam Transition	117.000 LF	_____.____	_____.____
1120	614.2610 MGS Guardrail Terminal EAT	3.000 EACH	_____.____	_____.____
1130	614.2620 MGS Guardrail Terminal Type 2	2.000 EACH	_____.____	_____.____
1140	616.0206 Fence Chain Link 6-FT	1,880.000 LF	_____.____	_____.____
1150	618.0100 Maintenance And Repair of Haul Roads (project) 01. 1517-75-72	1.000 EACH	_____.____	_____.____
1160	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
1170	624.0100 Water	364.000 MGAL	_____.____	_____.____
1180	625.0500 Salvaged Topsoil	127,416.000 SY	_____.____	_____.____
1190	628.1504 Silt Fence	1,037.000 LF	_____.____	_____.____
1200	628.1520 Silt Fence Maintenance	1,037.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1210	628.1905 Mobilizations Erosion Control	3.000 EACH	_____.____	_____.____
1220	628.1910 Mobilizations Emergency Erosion Control	6.000 EACH	_____.____	_____.____
1230	628.2004 Erosion Mat Class I Type B	115,833.000 SY	_____.____	_____.____
1240	628.7005 Inlet Protection Type A	75.000 EACH	_____.____	_____.____
1250	628.7010 Inlet Protection Type B	74.000 EACH	_____.____	_____.____
1260	628.7020 Inlet Protection Type D	2.000 EACH	_____.____	_____.____
1270	628.7504 Temporary Ditch Checks	396.000 LF	_____.____	_____.____
1280	628.7555 Culvert Pipe Checks	12.000 EACH	_____.____	_____.____
1290	628.7560 Tracking Pads	5.000 EACH	_____.____	_____.____
1300	628.7570 Rock Bags	110.000 EACH	_____.____	_____.____
1310	629.0210 Fertilizer Type B	79.000 CWT	_____.____	_____.____
1320	630.0130 Seeding Mixture No. 30	2,292.000 LB	_____.____	_____.____
1330	630.0200 Seeding Temporary	1,218.000 LB	_____.____	_____.____
1340	634.0614 Posts Wood 4x6-Inch X 14-FT	2.000 EACH	_____.____	_____.____
1350	634.0616 Posts Wood 4x6-Inch X 16-FT	2.000 EACH	_____.____	_____.____
1360	634.0618 Posts Wood 4x6-Inch X 18-FT	4.000 EACH	_____.____	_____.____
1370	635.0200 Sign Supports Structural Steel HS	1,329.000 LB	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1380	636.0100 Sign Supports Concrete Masonry	116.400 CY	_____.____	_____.____
1390	636.0500 Sign Supports Steel Reinforcement	136.000 LB	_____.____	_____.____
1400	636.1500 Sign Supports Steel Coated Reinforcement HS	17,720.000 LB	_____.____	_____.____
1410	637.1220 Signs Type I Reflective SH	843.500 SF	_____.____	_____.____
1420	637.2210 Signs Type II Reflective H	108.250 SF	_____.____	_____.____
1430	638.2101 Moving Signs Type I	1.000 EACH	_____.____	_____.____
1440	638.2102 Moving Signs Type II	7.000 EACH	_____.____	_____.____
1450	638.2601 Removing Signs Type I	2.000 EACH	_____.____	_____.____
1460	638.2602 Removing Signs Type II	34.000 EACH	_____.____	_____.____
1470	638.3000 Removing Small Sign Supports	41.000 EACH	_____.____	_____.____
1480	638.3100 Removing Structural Steel Sign Supports	4.000 EACH	_____.____	_____.____
1490	638.4000 Moving Small Sign Supports	5.000 EACH	_____.____	_____.____
1500	641.6600 Sign Bridge (structure) 01. S-70-226	 LS	LUMP SUM	_____.____
1510	642.5401 Field Office Type D	1.000 EACH	_____.____	_____.____
1520	643.0200.S Traffic Control Surveillance and Maintenance (project) 01. 1517-75-72	545.000 DAY	_____.____	_____.____
1530	643.0300 Traffic Control Drums	151,842.000 DAY	_____.____	_____.____

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Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1540	643.0420 Traffic Control Barricades Type III	15,319.000 DAY	_____.____	_____.____
1550	643.0705 Traffic Control Warning Lights Type A	29,558.000 DAY	_____.____	_____.____
1560	643.0715 Traffic Control Warning Lights Type C	38,459.000 DAY	_____.____	_____.____
1570	643.0900 Traffic Control Signs	34,382.000 DAY	_____.____	_____.____
1580	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.____	_____.____
1590	643.1050 Traffic Control Signs PCMS	168.000 DAY	_____.____	_____.____
1600	645.0120 Geotextile Type HR	26.000 SY	_____.____	_____.____
1610	646.0106 Pavement Marking Epoxy 4-Inch	66,117.000 LF	_____.____	_____.____
1620	646.0126 Pavement Marking Epoxy 8-Inch	8,102.000 LF	_____.____	_____.____
1630	646.0600 Removing Pavement Markings	259,810.000 LF	_____.____	_____.____
1640	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	2,104.000 LF	_____.____	_____.____
1650	649.0403 Temporary Pavement Marking Epoxy 4-Inch	44,035.000 LF	_____.____	_____.____
1660	649.0801 Temporary Pavement Marking Removable Tape 8-Inch	240.000 LF	_____.____	_____.____
1670	649.0803 Temporary Pavement Marking Epoxy 8-Inch	6,366.000 LF	_____.____	_____.____
1680	652.0125 Conduit Rigid Metallic 2-Inch	190.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1690	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	1,632.000 LF	_____.____	_____.____
1700	653.0180 Pull Boxes Steel Communications (inch) 01. 24X36-Inch	5.000 EACH	_____.____	_____.____
1710	654.0107 Concrete Bases Type 7	5.000 EACH	_____.____	_____.____
1720	655.0610 Electrical Wire Lighting 12 AWG	990.000 LF	_____.____	_____.____
1730	655.0615 Electrical Wire Lighting 10 AWG	1,953.000 LF	_____.____	_____.____
1740	655.0620 Electrical Wire Lighting 8 AWG	6,135.000 LF	_____.____	_____.____
1750	655.0625 Electrical Wire Lighting 6 AWG	2,457.000 LF	_____.____	_____.____
1760	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	5.000 EACH	_____.____	_____.____
1770	657.0337 Poles Type 17-Aluminum	5.000 EACH	_____.____	_____.____
1780	657.0730 Luminaire Arms Truss Type 6-Inch Clamp 12-FT	6.000 EACH	_____.____	_____.____
1790	659.1125 Luminaires Utility LED C	6.000 EACH	_____.____	_____.____
1800	671.0112 Conduit HDPE 1-Duct 2-Inch	58.000 LF	_____.____	_____.____
1810	671.0122 Conduit HDPE 2-Duct 2-Inch	56.000 LF	_____.____	_____.____
1820	671.0212 Conduit HDPE Directional Bore 1-Duct 2-Inch	286.000 LF	_____.____	_____.____
1830	672.0250 Base Camera Pole 50-FT	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1840	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
1850	690.0150 Sawing Asphalt	1,490.000 LF	_____.____	_____.____
1860	690.0250 Sawing Concrete	2,426.000 LF	_____.____	_____.____
1870	715.0415 Incentive Strength Concrete Pavement	14,063.000 DOL	1.00000	14,063.00
1880	715.0502 Incentive Strength Concrete Structures	4,110.000 DOL	1.00000	4,110.00
1890	999.1500.S Crack and Damage Survey	 LS	LUMP SUM	_____.____
1900	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000	10,500.00
1910	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	5,760.000 HRS	5.00000	28,800.00
1920	SPV.0035 Special 003. Roadway Embankment	329,033.000 CY	_____.____	_____.____
1930	SPV.0035 Special 004. Drainage Blanket	19,876.000 CY	_____.____	_____.____
1940	SPV.0035 Special 700. Modified High Performance Concrete (HPC) Masonry Structures	1,459.000 CY	_____.____	_____.____
1950	SPV.0060 Special 001. CPM Baseline Schedule	1.000 EACH	_____.____	_____.____
1960	SPV.0060 Special 002. CPM Schedule Monthly Updates	15.000 EACH	_____.____	_____.____
1970	SPV.0060 Special 005. Vibrating Wire Piezometer Instrumentation System Delivered	6.000 EACH	_____.____	_____.____
1980	SPV.0060 Special 006. Settlement Gauges	12.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1990	SPV.0060 Special 016. Bolting Inlet Covers	8.000 EACH	_____.____	_____.____
2000	SPV.0060 Special 203. Maintenance and Removal of Crash Cushions Temporary Left in Place by Others	2.000 EACH	_____.____	_____.____
2010	SPV.0060 Special 204. Crash Cushions Temporary Left In Place	1.000 EACH	_____.____	_____.____
2020	SPV.0060 Special 205. Maintain Traffic Control Signs Left In Place	20.000 EACH	_____.____	_____.____
2030	SPV.0060 Special 206. Maintain Traffic Control Drums Left In Place	94.000 EACH	_____.____	_____.____
2040	SPV.0060 Special 207. Maintain Traffic Control Barricades Left In Place	10.000 EACH	_____.____	_____.____
2050	SPV.0060 Special 208. Maintain Traffic Control Warning Lights Type A Left In Place	20.000 EACH	_____.____	_____.____
2060	SPV.0060 Special 209. Maintain Traffic Control Warning Lights Type C Left In Place	8.000 EACH	_____.____	_____.____
2070	SPV.0060 Special 210. Traffic Control Signs Left in Place	44.000 EACH	_____.____	_____.____
2080	SPV.0060 Special 211. Traffic Control Drums Left In Place	142.000 EACH	_____.____	_____.____
2090	SPV.0060 Special 212. Traffic Control Barricades Left In Place	17.000 EACH	_____.____	_____.____
2100	SPV.0060 Special 213. Traffic Control Warning Lights Type A Left In Place	34.000 EACH	_____.____	_____.____
2110	SPV.0060 Special 214. Traffic Control Warning Lights Type C Left In Place	45.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2130	SPV.0060 Special 350. Pull Box Non-Conductive 24X42-INCH	4.000 EACH	_____.____	_____.____
2140	SPV.0060 Special 400. Remove and Relocate Camera Assembly	1.000 EACH	_____.____	_____.____
2150	SPV.0060 Special 401. Remove and Relocate Ethernet Switch	1.000 EACH	_____.____	_____.____
2160	SPV.0060 Special 402. Remove and Relocate Video Encoder	1.000 EACH	_____.____	_____.____
2170	SPV.0060 Special 403. Remove and Relocate Radio Link	2.000 EACH	_____.____	_____.____
2180	SPV.0060 Special 405. Remove and Relocate Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
2190	SPV.0060 Special 406. Remove Wood Pole	1.000 EACH	_____.____	_____.____
2200	SPV.0060 Special 407. Removing and Deliver Existing Ramp Gates	2.000 EACH	_____.____	_____.____
2210	SPV.0060 Special 701. Junction Boxes Fiberglass 18x12x12-Inch	2.000 EACH	_____.____	_____.____
2220	SPV.0060 Special 850. Anchor Assemblies Sign Bridge	8.000 EACH	_____.____	_____.____
2230	SPV.0075 Special 015. Street Sweeping	100.000 HRS	_____.____	_____.____
2240	SPV.0090 Special 007. Prefabricated Vertical Drains	948,120.000 LF	_____.____	_____.____
2250	SPV.0090 Special 008. Prebored Prefabricated Vertical Drains	632,080.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2260	SPV.0090 Special 009. 6-Inch Geocomposite Strip Drains	92,962.000 LF	_____.____	_____.____
2270	SPV.0090 Special 017. Temporary Shielding	1,500.000 LF	_____.____	_____.____
2280	SPV.0090 Special 200. Maintain and Remove Concrete Barrier Temporary Precast Left In Place	2,079.000 LF	_____.____	_____.____
2290	SPV.0090 Special 201. Concrete Barrier Temporary Precast Anchoring	3,028.000 LF	_____.____	_____.____
2300	SPV.0090 Special 202. Concrete Barrier Temporary Precast Left In Place	13,214.000 LF	_____.____	_____.____
2310	SPV.0105 Special 010. Geotechnical Instrumention	LS	LUMP SUM	_____.____
2320	SPV.0105 Special 018. Survey Project 1517-75-72	LS	LUMP SUM	_____.____
2330	SPV.0105 Special 019. Concrete pavement Joint Layout	LS	LUMP SUM	_____.____
2340	SPV.0105 Special 950. Removing Sign Bridge S-70-155	LS	LUMP SUM	_____.____
2350	SPV.0105 Special 951. Sign Panel Structure Mounted, S-70-201	LS	LUMP SUM	_____.____
2360	SPV.0120 Special 014. Water For Seeded Areas	829.000 MGAL	_____.____	_____.____
2370	SPV.0165 Special 851. Prestressed Precast Concrete Wall Panel	17,270.000 SF	_____.____	_____.____
2380	SPV.0165 Special 852. Temporary Wall Wire Faced Mechanically Stablized Earth LFRD/QMP	6,090.000 SF	_____.____	_____.____

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2390	SPV.0165 Special 853. Wall Wire Faced Mechanically Stabilized Earth LRFD/QMP **P**	17,270.000 SF	_____.____	_____.____
2400	SPV.0180 Special 011. Modified High Performance Concrete (HPC) Pavement 9-INCH	4,461.000 SY	_____.____	_____.____
2410	SPV.0180 Special 012. Modified High Performance Concrete (HPC) Pavement 11-INCH	42,415.000 SY	_____.____	_____.____
2420	SPV.0195 Special 013. Cold Patch	10.000 TON	_____.____	_____.____
2430	603.1456 Concrete Barrier Type S56C	500.000 LF	_____.____	_____.____
2440	643.0800 Traffic Control Arrow Boards	172.000 DAY	_____.____	_____.____
2450	643.0910 Traffic Control Covering Signs Type I	11.000 EACH	_____.____	_____.____
2460	643.1000 Traffic Control Signs Fixed Message	17.000 SF	_____.____	_____.____
2470	643.1051 Traffic Control Signs PCMS with Cellular Communications	40.000 DAY	_____.____	_____.____
2480	643.3000 Traffic Control Detour Signs	518.000 DAY	_____.____	_____.____
2490	649.2100 Temporary Raised Pavement Markers Type I	13,162.000 EACH	_____.____	_____.____
2500	603.1356 Concrete Barrier Type S56B	32.000 LF	_____.____	_____.____
2510	652.0325 Conduit Rigid Nonmetallic Schedule 80 2-Inch	110.000 LF	_____.____	_____.____
2520	653.0222 Junction Boxes 18x12x6-Inch	3.000 EACH	_____.____	_____.____

Section: 0001 Total: _____.____

Total Bid: _____._____