



Inspection Report for B-67-114

CROWBAR DR over IH 43 Nov 12,2018



Туре	Prior	Frequency (mos)	Performed
Routine	06-06-17	24	Х
Deck Evaluation	06-06-17	0	
SIA Review	06-06-17	48	Х
Vertical Clearance Measured	06-06-17	0	Х

Latitude

Longitude

Start Coordinates

Longitude 88°11'19.56"W Owner STATE HIGHWAY DEPT End Coordinates (optional)

Maintainer STATE HIGHWAY DEPT

	Time Log		Team membe	rs	
	Hours 1	Minutes 0			
	Name		Number	Signature	Signature Date
Inspector	Bolka, John		2007	John Bolka E-signed by John Bolka(dotjtb)	01-23-19

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Identification & Location

Load Rating

Feature On: CROWBAR DR	Section Town Range: S06 T05N R20E	Structure Number:
Feature Under: IH 43	County: WAUKESHA	B-67-114
Location 0.1 MI S JCT CTH ES	Municipality: NEW BERLIN	Structure Name:

Traffic

Geometry

measurements in feet, except w	here noted			Lanes	ADT	ADT year	Traffic Pattern
Approach Roadway Width: 34	Bridge Roadway Width: 34.0	Total Length: 421.7	On	2	2000	2020	TWO WAY TRAFFIC
Approach Pavement Width: 22	Deck Width: 36.5	Deck Area (sq ft): 15392	Under	4	53000	2015	TWO WAY TRAFFIC

Capacity

Inventory rating:	Overburden depth (in):	Last rating date:	Controlling:
HS18	0.0	10-24-17	INTERIOR DECK GIRDER Moment
Operating rating:	Deck surface material:	Re-rate for capacity (Y/N):	Control location:
HS30	CONCRETE		7.9 SPAN 1, 110.7
Posting:	Re-rate notes:		

Hydraulic

Hydraulic		Classification
Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 96.3

Span(s)

	Span #	Material	Configuration	Depth (in)	Length (ft)	Main
	1	CONT STEEL	DECK GIRDER	78	140.5	
	2	CONT STEEL	DECK GIRDER	78	139.0	Y
[3	CONT STEEL	DECK GIRDER	78	137.0	

Expansion jo	oint(s)		Temperature:	File:66	New:27
Joint #	Location	Туре	Last inspection date	Last measure (in)	New measure (in)
1	S ABUTMENT	STRIPSEAL			3.0
2	N ABUTMENT	STRIPSEAL			3.0

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	16.22	06-Jun-2017	16.19
Highway Min Vertical Under Non-Cardinal	16.15	06-Jun-2017	16.08
Horizontal Under Cardinal	75.0		
Horizontal Under Non-Cardinal	76.6		
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Special Components

Component	Year	Work Performed	Note
DECK - IOWA MIX	1992	OVERLAY - CONCRETE	
SUPERSTRUCTURE - CONCRETE GIRDER HAUNCH	1969	NEW STRUCTURE	

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Construction History

Structure No.: B-67-114

Year	Work Performed	FOS id
2018	PAINTING	1090-30-70
2018	NEW DECK	1090-30-70
1992	OVERLAY - CONCRETE	1090-04-74
1985	PAINTING	
1969	NEW STRUCTURE	1092-03-75

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed				
Approach - Patch Bituminous	Brooks, Julie (2017)	COMPLETE	02/13/17	2016				
Patch/wedge asphalt at south paving block, seal all cracks and joints in both approaches								
				·				
IMP-Concrete Overlay	Brooks, Julie (2017)	REJECTED	07/10/17					
Delamination Present at Soffit, Program as De	ck Replacement.							
Deck - Clean and Sweep Deck/Drains	Brooks, Julie (2017)	COMPLETE	02/13/17	2016				
Clean deck drains to improve flow								
IMP-Paint Structure	Brooks, Julie (2017)	COMPLETE	11/12/18	2018				
2024 - Recommend w/Deck Replacement.								
IMP-Deck Replacement	Bolka, John (2007)	COMPLETE	11/12/18	2018				
2024 - Recommend Deck Replacement								

Elements

							Quantity in Co	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Reinforced Concrete Deck-Coated Reinforcing	SF	15,603	15,603	0	0	0
Х	12		Spans Numbered S=>N						
									-
			Cracking (RC)	SF		0	0	0	0
		1130	No Cracks Noted						
			Manning Outface (Dama)	0	44.000	44.000	0	0	0
	0000		Wearing Surface (Bare)	SF	14,338	14,338	0	0	0
	8000								
			Crack (Wearing Surface)	SF		0	0	0	0
		3220	No Cracks Noted			-	-	-	÷
			Steel Open Girder	LF	1,668	1,665	3	0	0
Х	107		Girders Numbered W=>E						
			Corrosion	LF		0	0	0	0
		1000	Scattered Pitting Throughout						
			Distortion	LF		0	3	0	0
		1900	SPAN 3: G4, Two Areas of Impact Distortion in Web over Lane 1.						
			Painted Steel	SF	33,799	33,799	0	0	0
	8516			•.	50,.00	50,.00		Ŭ	, v
	-								
			Effectiveness (Steel Protective Coatings)	SF		33,799	0	0	0
		3440	2018 Re-Paint						-

age) 4							Structure No.	: B-67-1
			Reinforced Concrete Column	EA	6	5	1	0	0
Х	205		Girders Numbered W=>E						
			Delamination - Spall - Patched Area	EA		0	1	0	0
		1080	PIER 2: Small Spall @ C1	-!			1		
			Reinforced Concrete Abutment	LF	84	73	7	4	0
Х	215			-!			1		
			Delamination - Spall - Patched Area	LF		0	0	4	0
		1080	S ABUTMENT: Spall w/exp Reinforcement at 3 Delamination, G2-3, Vertical Crack w/Adjacent I Delamination at NW & NE Corners of Backwall, V G2-3.	Delamina	ation, Spall	w/exp Rei	nforcement	: N ABUTI	MENT:
			Cracking (RC)	LF		0	7	0	0
		1130	S ABUTMENT: HL/Narrow Vertical Cracks w/Sta and Efflorescence.	aining; N	ABUTMEN	T: HL/Narr	ow Vertical	Cracks w/	'Stainin(
_			Reinforced Concrete Cap	LF	77	72	4	1	0
Х	234								
			Delamination - Spall - Patched Area	LF		0	0	1	0
		1080	PIER 2: Spall w/exp Reinforcement at NW Bo	ttom Cor	ner.				
			Cracking (RC)	LF		0	4	0	0
		1130	PIER 1: FRP Wrap on Portions of Cap; PIER 2 Portions of Cap.	: Narrow	Diagonal C	rack w/lea	ching @ C	1-2, FRP \	Vrap or
			Strip Seal Expansion Joint	LF	85	85	0	0	0
X	300		S JOINT: 3" @ 27 deg @ SW Corner; N JOINT:	3" @ 27	deg @ NV	Corner			
			Moveable Bearing	EA	12	9	3	0	0
X	311		Includes Bearings at Abutments and Pier 2; New	Assem	blies Instal	led at Abu	itments.		
-			Connection	EA		0	3	0	0
		1020	S ABUTMENT: Anchor Bolts not Tightened at C	G2-4.			I		
			Fixed Bearing	EA	4	4	0	0	0
X	313		Includes Bearings @ Pier 1						
			Reinforced Concrete Bridge Rail	LF	882	845	37	0	0
X	331			•					
_			Cracking (RC)	LF		0	37	0	0
		1130		Few HL /	Narrow Ve	rtical Cracl	ks.		
-			Integral Wingwall	EA	4	0	4	0	0
X	8400				• •				
_			Wall Deterioration	EA		0	4	0	0
		8903	NE: Diagonal Crack w/Staining at Abutment; N Crack w/Staining at Abutment; SW: Diagonal (W: Diago Crack w/S	onal Crack Staining at	w/Stainin Abutmen	g at Abutn t.	nent; SE:	Diagon
	1		FRP Strengthening	EA	2	2	0	0	0
_							1 0		

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Assessments

							Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Ends of Structure	EA	4	0	0	4	0
x	9001		SE: Granular Material at Wingtip w/Erosion; SW Curb & Gutter w/Flume at Wingtip, Undermining	of Curb	lar Materia at Wingtip	al at Wingti ; NE: Con	p w/Erosio crete Curb	n; NW: Cor & Gutter	ncrete w/Flume
			at Wingtip, Erosion w/Undermining of Curb at \breve{M}	/ingtip.					
x	9004		Drainage - Drainage Along Structure (Deck Drains)	EA	2	2	0	0	0
	5004		SPAN 2: East and West Rails near Pier 2.			•			
			Slope Protection- Crushed Aggregate with Bit.	EA	2	2	0	0	0
X	9043		S SLOPE: Surface Coverage of Bitumen has so Uniformly, Piles and Pockets, Surface Coverage	attered of Bitu	Damage; umen has	N SLOPE: scattered	Aggregate Damage.	not Sprea	d
			Steel Diaphragm	EA	57	57	0	0	0
X	9167				1	1	1	I	
			Lateral Bracing	EA	2	2	0	0	0
X	9169	69	G1-2 & G3-4.						
			Approach Roadway - Concrete (non-structural)	EA	2	2	0	0	0
X	9322								

NBI Ratings

_	File	New
Deck	5	9
Superstructure	5	8
Substructure	6	7
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

Cardinal Minimum Vertical Clearance (16.22', 6/6/17) Measured at G4 (East Fascia) at Lane 1/Shoulder Joint; Non-Cardinal Minimum Vertical Clearance (16.15', 6/6/17) Measured at G4 (East Fascia) at Lane 1/Shoulder Joint; Gravel Pit at SE Quadrant Runs Street Sweeper periodically across deck which leads to Filling of Deck Drains with Fines.

Inspection Specific Notes

Inspector	Site-S	pecific	Safety	Considerations

Hours

Structure Inspection Procedures

Ample Vehicular Access.

Special Requirements

Chk

Cost Comments



Routine Document Comment/Description

Girder 4, Span 3





Routine Document Comment/Description

North Abutment & Slope



Routine Document Comment/Description

North Abutment



Routine Document Comment/Description

North Approach





North Slope



Routine Document Comment/Description



Routine Document Comment/Description

NE Wingwall



Routine Document Comment/Description

NW Approach Drainage



Routine Document Comment/Description NW Wingwall



Routine Document Comment/Description Pier 2, Column 1

1101 27 0010



Routine Document Comment/Description

1101 1 11



Routine Document Comment/Description



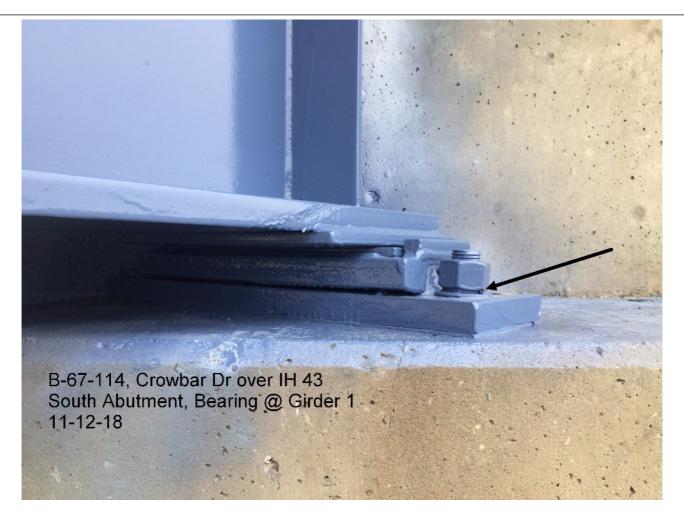
Document Comment/Description



Roadway



Routine Document Comment/Description South Abutment Bearing

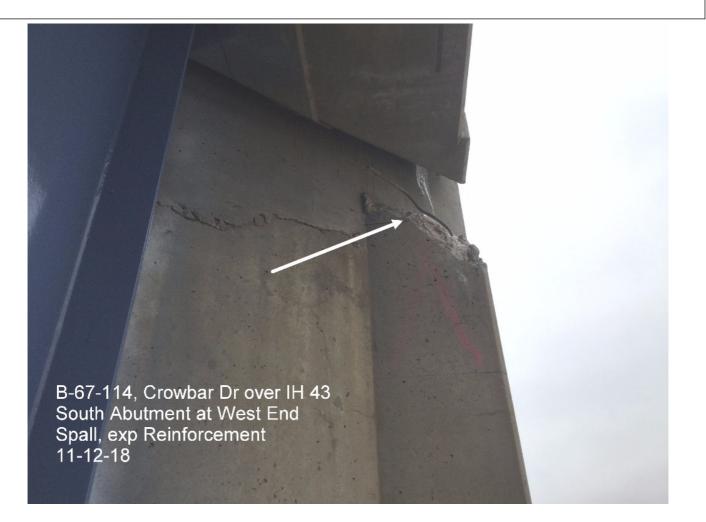


Routine Document Comment/Description

South Abutment



South Abutment



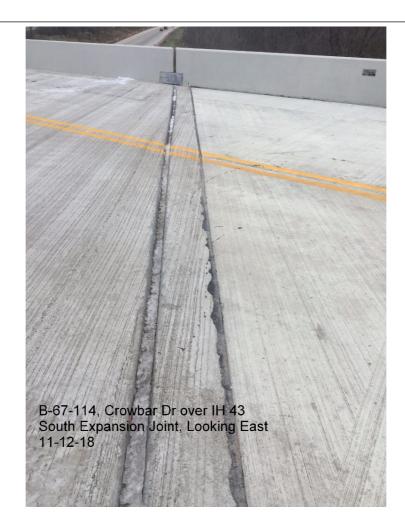


Routine Document Comment/Description

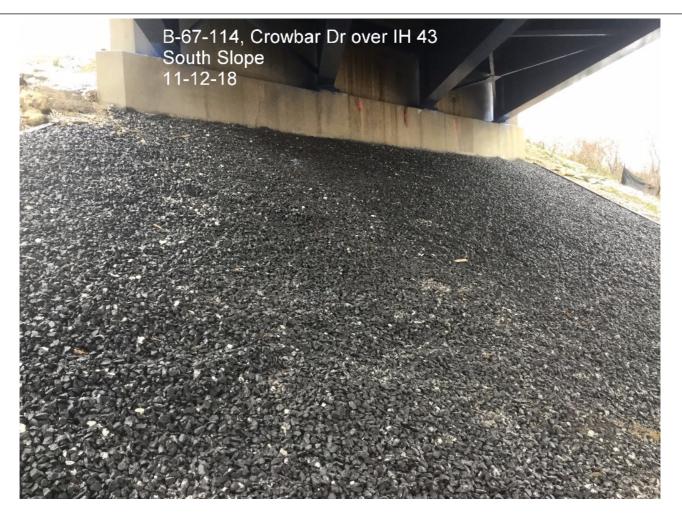
South Approach



Routine Document Comment/Description South Expansion Joint



Routine Document Comment/Description South Slope & Abutment



Routine Document Comment/Description SE Approach Drainage



Routine Document Comment/Description



Routine Document Comment/Description

Soffit, Span 1



Routine Document Comment/Description

SW Approach Drainage



Routine Document Comment/Description

nebe nai



Routine Document Comment/Description

Wearing Surface



Structure No.:B-67-114

Non-Image Documents

	Document	Document Comment/Description	Attached
Vertical	b67-114_18_Vd1.pdf	Cardinal Minimum Vertical Clearances Measured	Х
Clearance		1/11/19.	
Verification			
Vertical	b67-114_18_Vd2.pdf	Non-Cardinal Minimum Vertical Clearances	Х
Clearance		Measured 1/11/19.	
Verification			

STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-67-114 CROWBAR DR over IH 43

(3) Municipality: (16) Latitiude(° ' "): (17) Longitude(° ' "):

(28A) Lanes On:
(28B) Lanes Under:
(102) Traffic Pattern On:
(102) Traffic Pattern Under:
(19) Detour Length(mi):

(49) Structure Length(ft):
(50) Sidewalk Width(ft):
(50) Curb Width(ft):
(52) Culvert Barrel Length(ft):
(34) Skew:

(51) Bridge Roadway Width(ft):
(52) Deck Width(ft):
Right Wingwall Length(ft):
Left Wingwall Length(ft):
(32) Approach Roadway Width(ft):

(47) Minimum Horizontal(ft):(55) Minimum Right Lateral(ft):(56) Minimum Left Lateral(ft):

(36A) Bridge Rail Adequacy: (36B) Transition Adequacy: (36C) Approach Guardrail Adequacy: (36D) Guardrail Termination Adequacy: Outer Rail:

Transition Type:

Approach Attachment Rail Note: Guardrail Termination Type:

Guardrail Termination Note:

(72) Approach Alignment Appraisal:

	LOCATION
NEW BERLIN	
42°55'27.52"N	
88°11'19.56"W	

TRAFFIC SERVICE

2

404 7

4
-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
E

GEOMETRY

421.7	
Left: 0.0	Right: 0.0
0.0	
Angle(°): 39	Direction: X -RIGHT FORWARD -LEFT FORWARD
Cardinal	Non-Cardinal
34.0	34.0
36.5	36.5
20.0	22.9
22.9	20.0
34	0
Cardinal Under Clearance	Non-Cardinal Under Clearance
75.0	76.6
14.0	14.0
41.3	43.2

RAILING APPRAISAL

		RAILING APPRAISAL					
-SUB-	STANDAR	D X-STANDARD -NOT APPLICABLE					
-SUB-	-SUB-STANDARD X-STANDARD -NOT APPLICABLE						
-SUB-	STANDAR	D X-STANDARD -NOT APPLICABLE					
-SUB-	STANDAR	D X-STANDARD -NOT APPLICABLE					
Left	Right	Туре					
		TYPE F (TWO SQUARE TUBES) - STEEL(8)					
		TYPE F (3 SQUARE TUBES) - STEEL(65)					
		TYPE F (4 SQUARE TUBES) - STEEL(72)					
		TYPE M-STEEL 3 SQUARE TUBES(93)					
		SLOPED FACE PARAPET LF(91)					
		SLOPED FACE PARAPET HF(92)					
		VERTICAL FACE PARAPET TYPE A(74)					
		TYPE W-THRIE BEAM(79)					
		TYPE H ON VERTICAL PARAPET(80)					
		TIMBER(38)					
Х	X	OTHER(99) (Please specify)					
		Left: SINGLE SLOPE MEDIAN BARRIER 32SS(107)					
		Right: SINGLE SLOPE MEDIAN BARRIER 32SS(107)					
		SUARD RAIL					
	-	2 GRDRL					
	NO ATT	ACHMENT					
5		7/8") BOLT (Please enter quantity)					
	25 MM(1") BOLT (Please enter quantity)					
	OTHER	R (Please specify)					
X	(01) EN	ERGY ABSORBING TERMINAL/EAT					
	(02) TU	RN DOWN					
	(99) OT	HER (Please specify)					

ROADWAY ALIGNMENT APPRAISAL

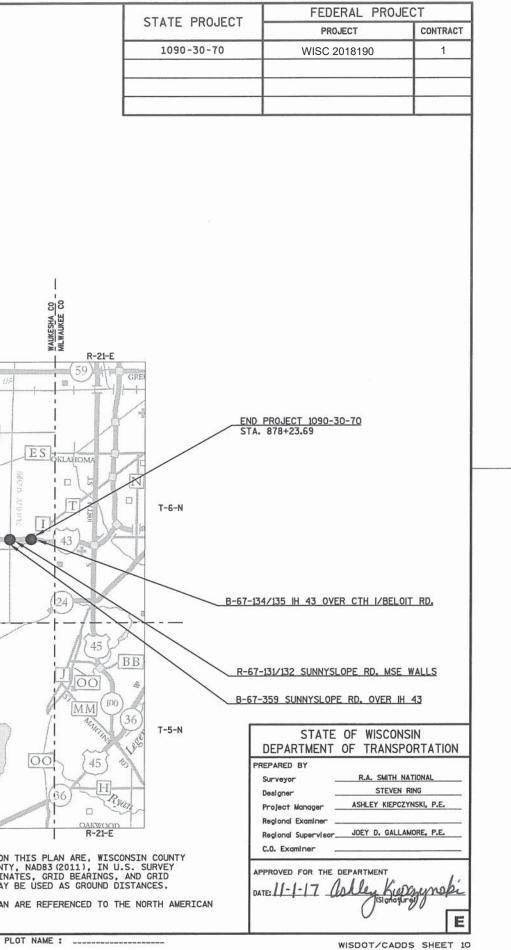
	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
X	8 Good- No speed reduction

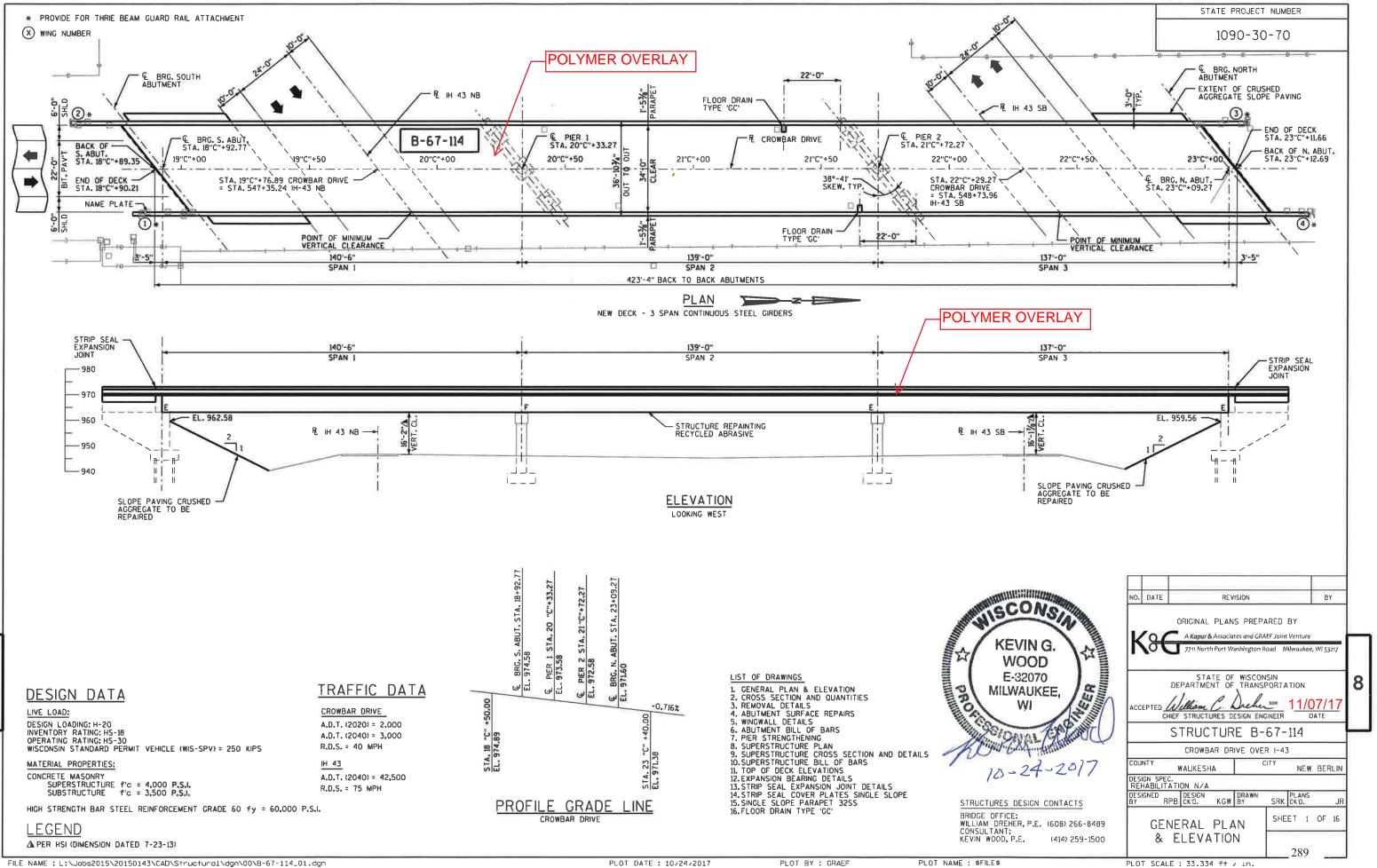
WKE	APR 2018 ORDER OF SHEETS	STATE OF WISCONSIN
PROJECT WITH: N/A	Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities	DEPARTMENT OF TRANSPORTATION
CT ID:	Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat -Section No. 5 Plan and Profile-	PLAN OF PROPOSED IMPROVEMENT
1090-30-70	Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections TOTAL SHEETS = 408	ROCK FREEWAY crowbar dr to cth i IH 43 WAUKESHA COUNTY
70	661111111111111	B-67-109/110 IH 43 OVER CALHOUN RD.
	DESIGN DESIGNATION IH 43 CROWBAR DR SUNNYSLOPE RD A.A.D.T. 2022 = 76900 2000 10200	B-67-114 CROWBAR DR. OVER IH 43
-	A.A.D.T. 2042 = 87400 3000 14000 D.H.V. 2042 = 8565 312 1456 D.D. = 56-44	
COUNTY:	T. = 8.2% DESIGN SPEED = 75 MPH 40 MPH 40 MPH ESALS = 26.5 MILLION ESAL	POLYMER OVERLAY
· WAUKESHA	ESAL CONVENTIONAL SYMBOLS PLAN PROFILE CORPORATE LIMITS GRADE LINE PROPERTY LINE ORIGINAL GROUND LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION SLOPE INTERCEPT CULVERT (Profile View) REFERENCE LINE UTILITIES EXISTING CULVERT GAS YBOR OF PIDE) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER MARSH AREA WATER WOODED OR SHRUB AREA TELEPHONE POLE	$\begin{array}{c} \hline \\ \hline $
		PLOT DATE + 9/7/2012 10:35 AM PLOT BY + FTLTZ, DEAN J PLOT NAME :

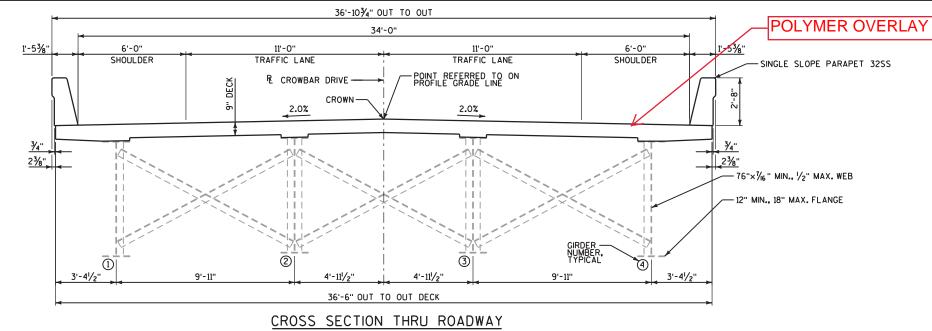
FILE NAME : X:\PDS\C3D\10903000\DSN\PLAN\TITLE.DWG

PLOT DATE : 9/7/2012 10:35 AM

PLOT BY : FILTZ, DEAN J PLOT







(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	SUPER.	TOTALS
203.0200.0010	REMOVING OLD STRUCTURE STA. 21"C"+10	LS						1
203.0210.5.0010	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-67-114	LS						1
203.0225.5.0010	DEBRIS CONTAINMENT B-67-114	LS						1
206.1000.0010	EXCAVATION FOR STRUCTURES BRIDGES B-67-114	LS						1
210.1500	BACKFILL STRUCTURE TYPE A	TON	28			28		56
502.0100	CONCRETE MASONRY BRIDGES	CY	11			11	570	592
502.3100.0010	EXPANSION DEVICE B-67-114	LS						1
502.3200	PROTECTIVE SURFACE TREATMENT	SY					1591	1591
502.3210	PIGMENTED SURFACE SEALER	SY	17			17	349	383
502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	172			172		344
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2590			2590	125,450	130,630
506.6000.0010	BEARING ASSEMBLIES EXPANSION STRUCTURE B-67-114	EACH	4			4		8
506.7050.S.0010	REMOVING BEARINGS B-67-114	EACH	4			4		8
509.1500	CONCRETE SURFACE REPAIR	SF	2			12		14
514.0445	FLOOR DRAIN TYPE GC	EACH					2	2
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7			7		14
517.0900.5.0010	PREPARATION AND COATING OF TOP FLANGES B-67-114	LS						1
517.1800.S.0030	STRUCTURE REPAINTING RECYCLED ABRASIVE B-67-114	LS						1
517.4500.S.0030	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIAL B-67-114	LS						1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH						1
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	CY	21			21		42
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	189			189		378
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2			2		4
SPV.0060.4020	EMBEDDED GALVANIC ANODES	EACH	4			12		16
SPV.0165.4040	FIBER WRAP REINFORCING STRUCTURAL	SF		229	229			458
	NON-BID ITEMS							
	BRIDGE SEAT PROTECTION	LS						1
	PREFORMED JOINT FILLER	SIZE						
ALL ITEMS ARE	CATEGORY 2020							

STRUCTL OF 423
CONCRET SHOWN C
CONTRAC 502.3.11 THE NEW
THE TOP PLACED
AT THE BEFORE STRUCTL
THE SUP AVERAGE THICKENE
THE WISC CONTRAC
"PROTEC CONCRET AND INSI

BENCH MARK DATA

BM NO.	DESCRIPTION	NORTHING	EASTING
BM 5	STA.18+88.03,17.19'RT BRASS CAP MON.FOUND SE CORNER OF CROWBAR BRIDGE OVER H-43	129322.831	694696.521
CP 100	STA. 543+40.74, 483.42'RT (EB) 39" BERNTSEN FENO MON. WITH ALUMINUM CAP SET AT WEST SIDE OF CROWBAR DRIVE, AT THE CROWBAR DRIVE AND TANS DRIVE INTERSECTION	128788.144	694661.317
CP 101	STA.29+38.42,17.26'RT 39" BERNTSEN FENO MON.WITH ALUMINUM CAP SET AT SE CORNER OF NATIONAL AVENUE & CROWBAR DRIVE	130373.186	694704.851
CP 102	STA.546+18.75,90.48'LT (EB) 39" BERNTSEN FENO MON.WITH ALUMINUM CAP SET IN MEDIAN OF IH-43 APPROXIMATELY 200 FEET SW OF CROWBAR DRIVE	129412.695	694532.542
CP 103	STA. 551+50.28, 92.67' LT (EB) 39" BERNTSEN FENO MON. WITH ALUMINUM CAP SET IN MEDIAN OF IH-43 APPROXIMATELY 300 FEET NE OF CROWBAR DRIVE	129737.993	694952.906
L		1	1

FILE NAME : L:\Jobs2015\20150143\CAD\Structural\dgn\00\B-67-114_02.dgn

8

STATE PROJECT NUMBER

NOTES

DRAWINGS SHALL NOT BE SCALED

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1INCH DEEP SAW CUT.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

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.

VARIATIONS TO THE NEW GRADE LINE OVER ${\rm V}_{\rm 4}"$ must be submitted by the field engineer to the structures design section for review.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-67-114"

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2018.

THE EXISTING ROADWAY SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

EXISTING STEEL SUPERSTRUCTURE SHALL BE PAINTED A COLOR TO MATCH SHERWIN WILLIAMS COLOR "SW6523".

THE EXISTING STRUCTURE, B-67-114 IS A 3 SPAN, STEEL DECK GIRDER STRUCTURE WITH AN OVERALL WIDTH OF 37 FEET AND AN OVERALL LENGTH OF 423 FEET 4 INCHES. THE DECK AND PARAPETS ARE TO BE REPLACED.

ETE SURFACE REPAIR AS DIRECTED BY THE FIELD ENGINEER. QUANTITIES ON THE PLANS ARE APPROXIMATE.

ACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 11 OF THE STANDARD SPECIFICATION AND THE STANDARD DETAIL DRAWINGS. EW NAME PLATE SHALL SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1969.

OP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE D WITH $2\prime\!/_2$ INCHES OF CLEAR COVER.

E BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED E ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW TURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

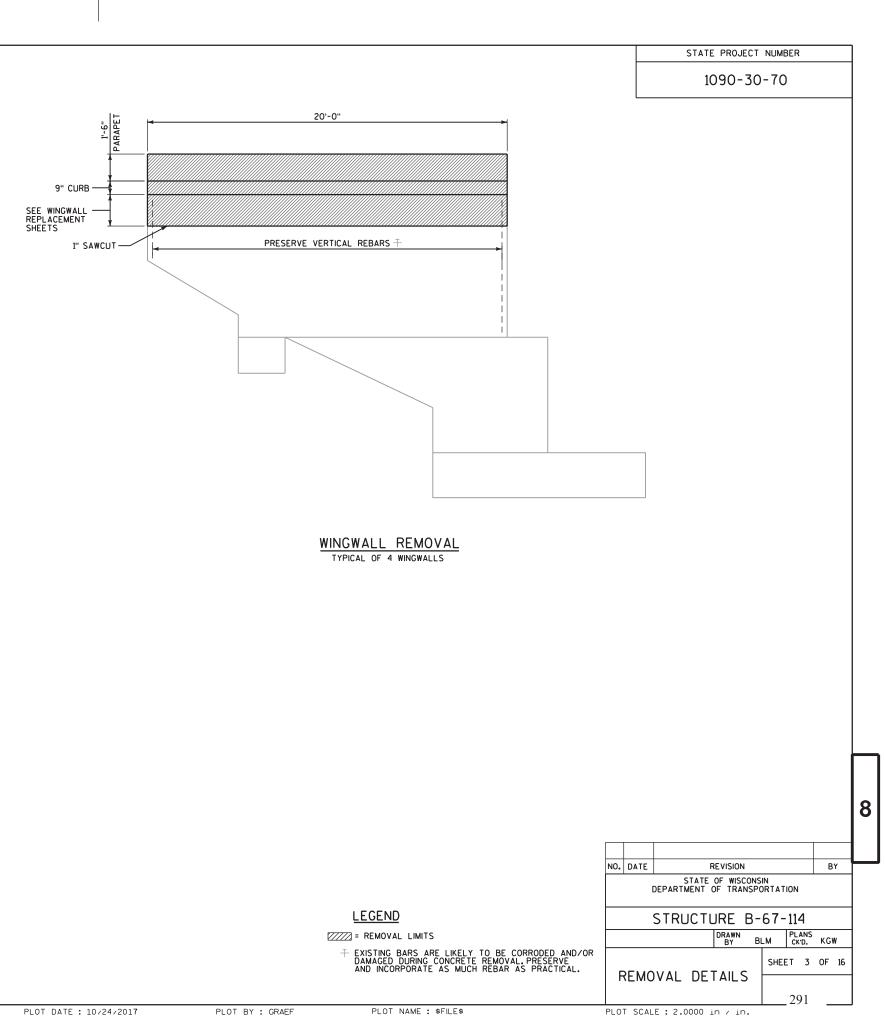
UPERSTRUCTURE CONCRETE QUANTITY INCLUDES VOLUME FOR THE GE ESTIMATED HAUNCH HEIGHT, OVERHANG TRIANGULAR AREA, AND INED DECK AT EXPANSION JOINTS.

ISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE ACTOR WITH BENCHMARK CAPS TO BE INSTALLED AS SHOWN ON PLANS.

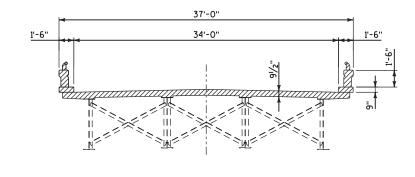
"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE CONCRETE DECK. "PIGMENTED SURFACE SEALER" TO BE APPLIED TO THE TOP AND INSIDE FACES OF PARAPETS.

	ELEVATION			
	974.80			
	982.06			8
	963.15	NO. DATE REVISION	 	
	953,18	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
		STRUCTURE B-67-114		
		DRAWN BY SRK CK'D.	KGW	
•	944.47	CROSS SECTION SHEET 2	OF 16	
		AND QUANTITIES 290		

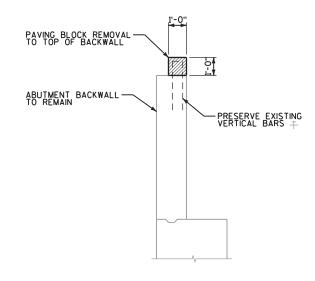
PLOT SCALE : 5.333 ft / in.





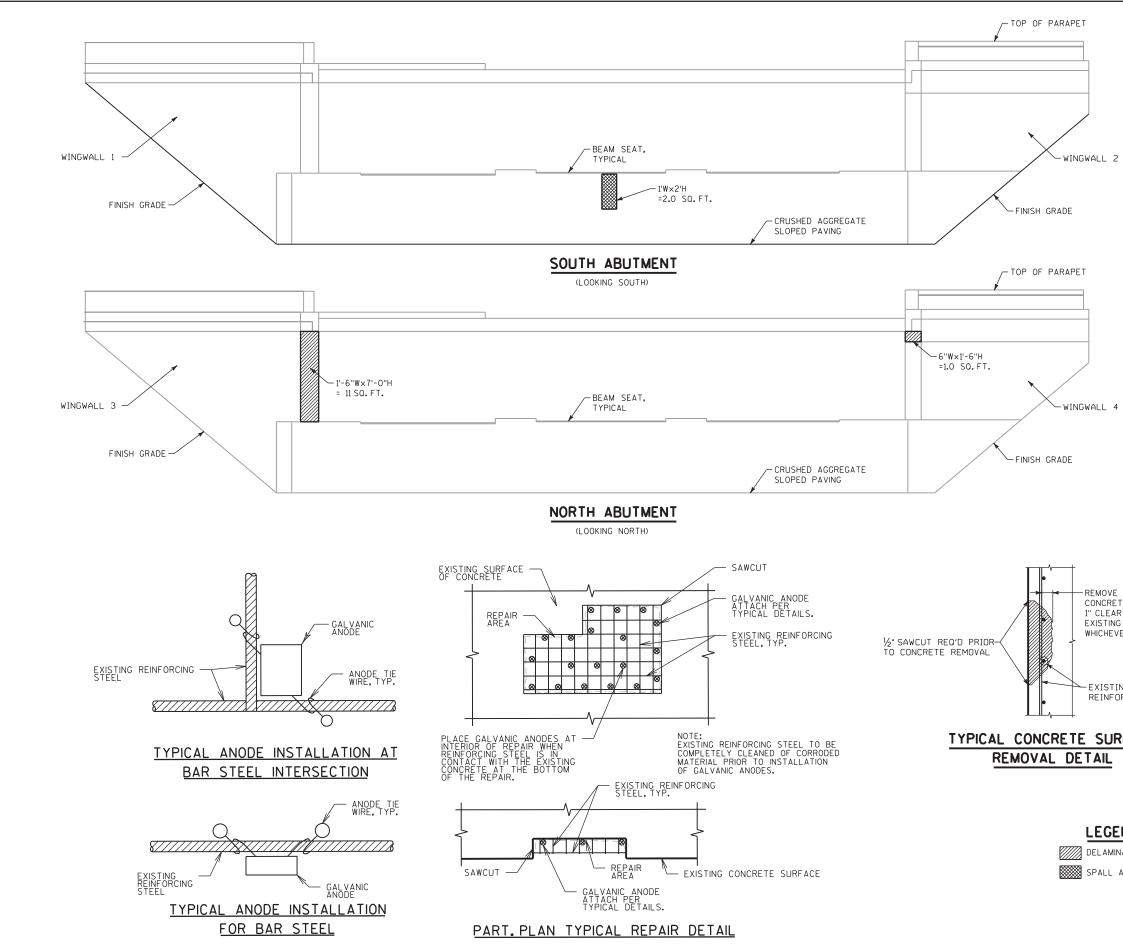


DECK REMOVAL



PAVING BLOCK REMOVAL

PLOT SCALE : 2.0000 in / in.



STATE	PROJECT	NUMBER
10	90-30	-70

NOTES

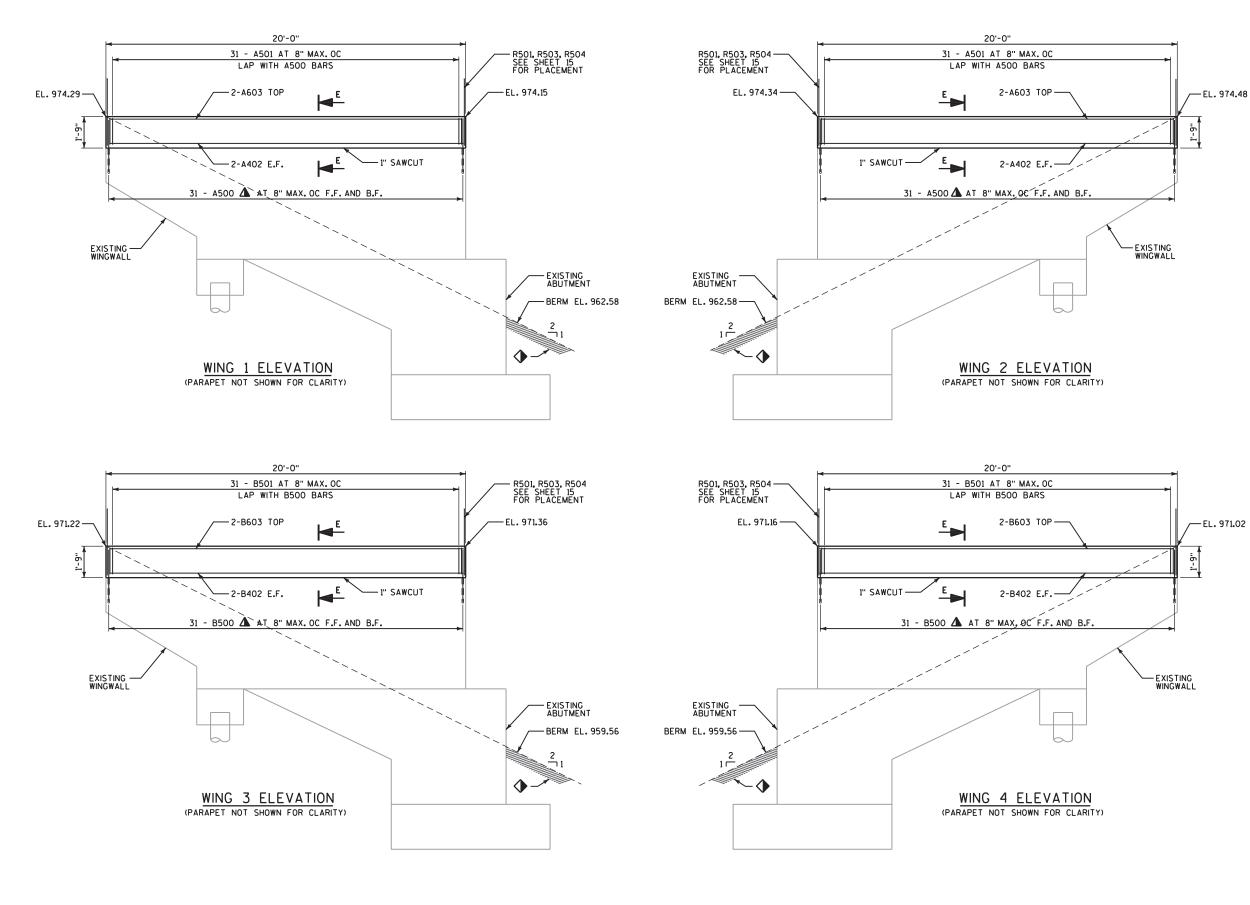
AREAS AND LOCATIONS FOR CONCRETE SURFACE REPAIR ARE APPROXIMATE. PERFORM REPAIRS AS DIRECTED BY THE FIELD ENGINEER. THE FINISHED CONCRETE SURFACE SHALL MATCH THE SHAPE AND FINISH OF THE ORIGINAL CONCRETE SURFACE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO PROVIDE ADDITIONAL CONCRETE. SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR DESCRIPTION, MATERIALS, CONSTRUCTION, MEASUREMENT, AND PAYMENT INFORMATION. ANODES NEAREST TO THE EDGE OF REPAIR TO BE WITHIN 6" OF EDGE. AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1/2" AND A MINIMUM BOTTOM COVER OF 1/2". GALVANIC ANODES ARE TO BE INSTALLED IN THE ABUTMENTS, WINGWALLS, AND PIERS ONLY. ENSURE ALL EXPOSED REINFORCING STEEL SE SPECIAL PROVISIONS GALVANIC ANODES SHALL BE PLACED PER SPECIAL PROVISIONS GALVANIC ANODES SHALL BE PLACED PER SPECIAL PROVISIONS "EMBEDDED GALVANIC ANODES NEARES SHALL BE PLACED PER SPECIAL PROVISIONS ARE BASED ON A MAXIMUM SPACING OF 24 INCHES IN EACH DUANTITIES ON PLANS ARE BASED ON A MAXIMUM SPACING OF 24 INCHES IN EACH DIRECTION OF THE ESTIMATED "CONCRETE SURFACE REPAIR" AREA.

EXISTING REINFORCING BARS MAY BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL.PRESERVE AND INCORPORATE EXISTING REINFORCEMENT.

REMOVE TO SOUND CONCRETE OR I" CLEAR AROUND EXISTING REINFORCEMENT, WHICHEVER IS GREATER NEW CONCRETE PATCH NEW CONCRETE PATCH SALVAGE AND CLEAN EXISTING STEEL REINFORCEMENT PICAL CONCRETE SURFACE REPAIR DETAIL

-EXISTING REINFORCEMENT

RFACE <u>TYF</u>	PICA		ONCRETI		RFA	<u>ICE</u>			8	
ND	NO.	DATE		REVISION	0.1.0.1.1		B	r		
		I	DEPARTMENT	OF WISCO OF TRAN		ATION				
IATED AREA										
AREA			STRUCTI	JRE E	3-6	7-114				
				DRAWN BY	BLM	PLAN CK'D.		ı		
		Δ	BUTMEN	Т	s	HEET 4	OF	16		
	5		ACE REF							
			E: 6.0000 s	ef (in		292	_			



STATE PROJECT NUMBER

1090-30-70

LEGEND

ADHESIVE ANCHORS NO. 5 BAR. EMBED 8" IN CONCRETE.

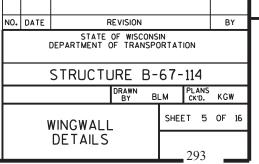
EXISTING SLOPE PAVING HAS SETTLED OR WASHED AWAY IN SEVERAL SPOTS. THESE AREAS SHALL BE DETERMINED BY THE ENGINEER.

ADD NEW (AS REO'D) AND RESTORE EXISTING SLOPE PAVING TO THE ELEVATIONS AND SLOPES INDICATED. TO BE COMPLETED PRIOR TO SEALING/RESEALING ALL NEW/EXISTING SLOPE PAVING CRUSHED AGGREGATE.

8

NOTE

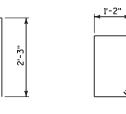
FOR SECTION E-E SEE SHEET 6

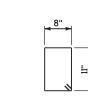


PLOT SCALE : 2.0000 in / in.

	SOUTH ABUTMENT BILL OF BARS													
MARK	COATED	NO. REQ'D	LENGTH	BAR SERIES	BENT	LOCATION								
A500	Х	124	3'-2"	N	Y	WINGWALL DOWELS								
A501	Х	62	5'-10"	N	Y	WINGWALL STIRRUPS								
A402	Х	8	19'-8"	N	WINGWALL LONGITUDINAL									
A603	Х	4	19'-8"	N	N	WINGWALL LONGITUDINAL TOP								
A511	X	21	7'-9"	N	N	PAVING BLOCK								
A412	Х	48	3'-8"	N	Y	PAVING BLOCK STIRRUP								
A513	Х	48	3'-1"	N	Y	PAVING BLOCK DOWEL								

		NOR	ГН АВ	UTME	NT B	ILL OF BARS
MARK	COATED	NO. REQ'D	LENGTH	BAR SERIES	BENT	LOCATION
B500	Х	124	3'-2"	N	Y	WINGWALL DOWELS
B501	Х	62	5'-10"	N	Y	WINGWALL STIRRUPS
B402	Х	8	19'-8"	N	N	WINGWALL LONGITUDINAI
B603	Х	4	19'-8"	N	N	WINGWALL LONGITUDINAI
B511	Х	21	7'-9"	N	N	PAVING BLOCK
B412	Х	48	3'-8"	N	Y	PAVING BLOCK STIRRUP
B513	Х	48	3'-1"	N	Y	PAVING BLOCK DOWEL





- 7- - 0

<u>A513, B513</u>

<u>A500, B500</u>

A501, B501

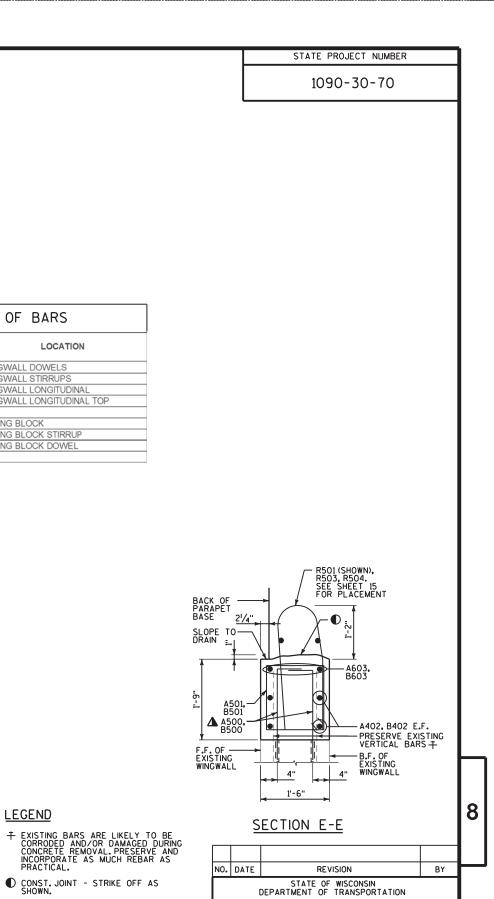
A412, B412

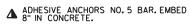


CONST. JOINT - STRIKE OFF AS SHOWN.

<u>NOTE</u> SEE SHEET 13 FOR PLACEMENT OF PAVING BLOCK REINFORCEMENT.

8





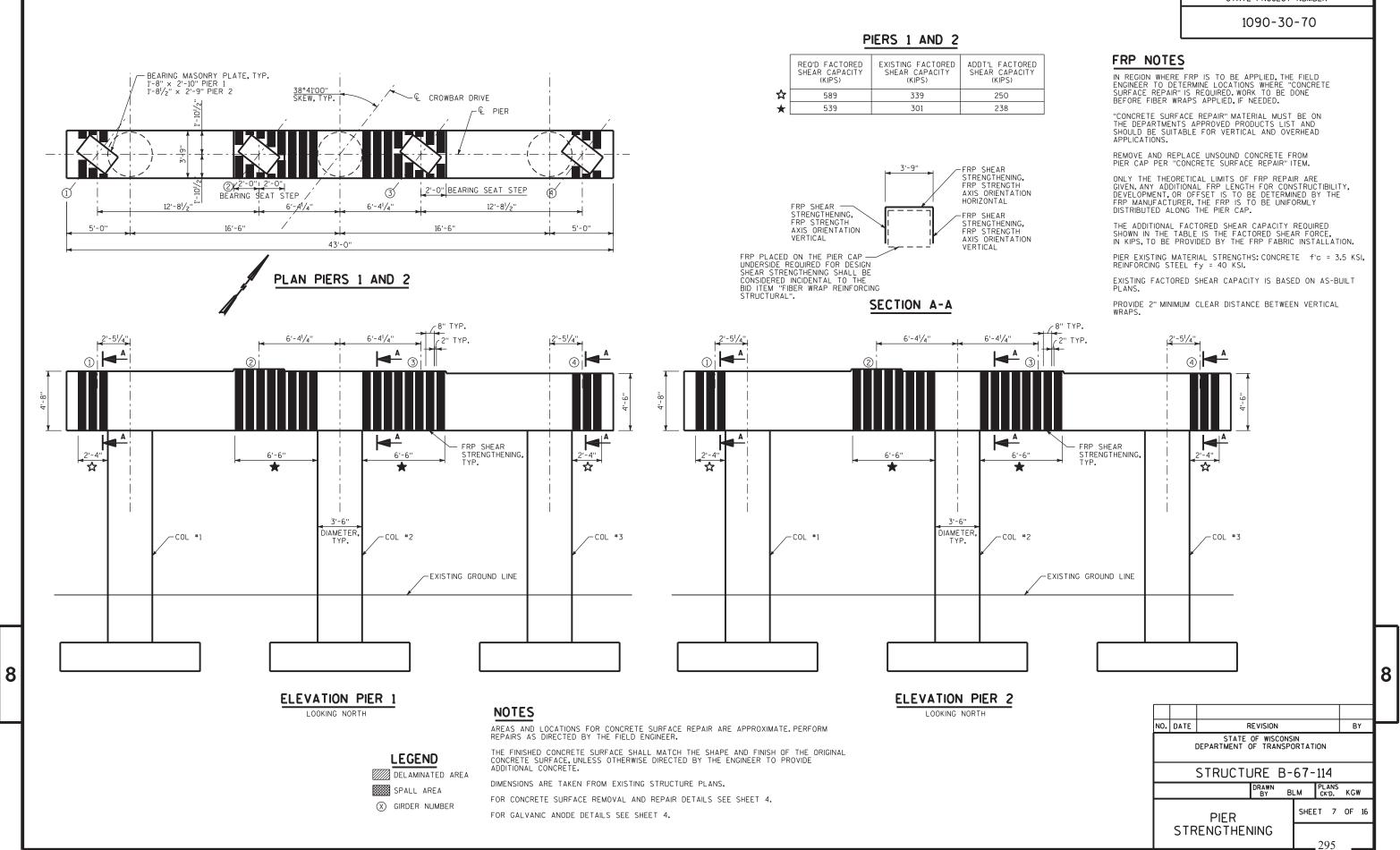
PLOT SCALE : 2.0000 in / in.

ABUTMENT BILL OF BARS

STRUCTURE B-67-114

DRAWN BY BLM CKD. KGW

SHEET 6 OF 16

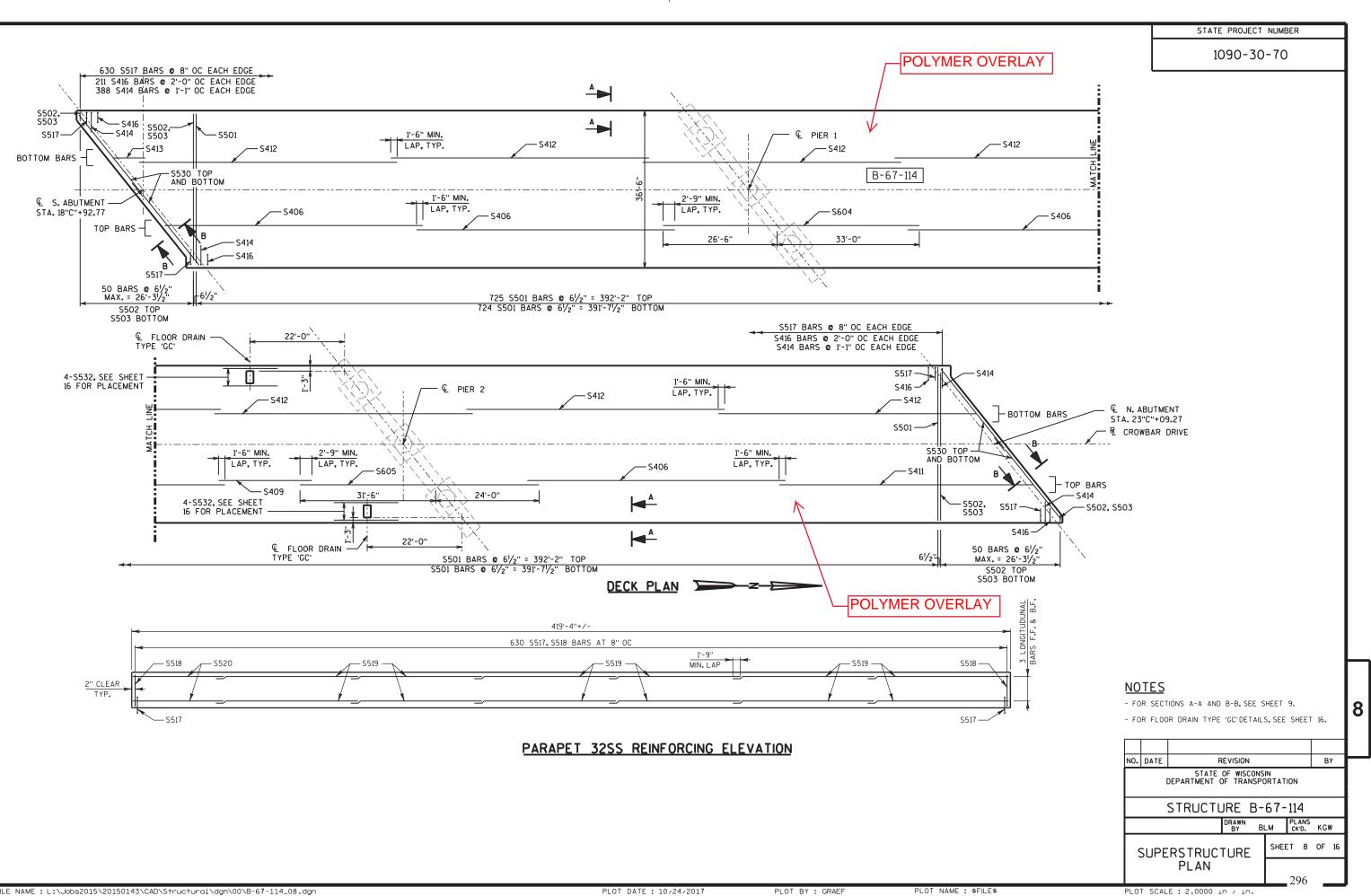


PLOT NAME : \$FILE\$

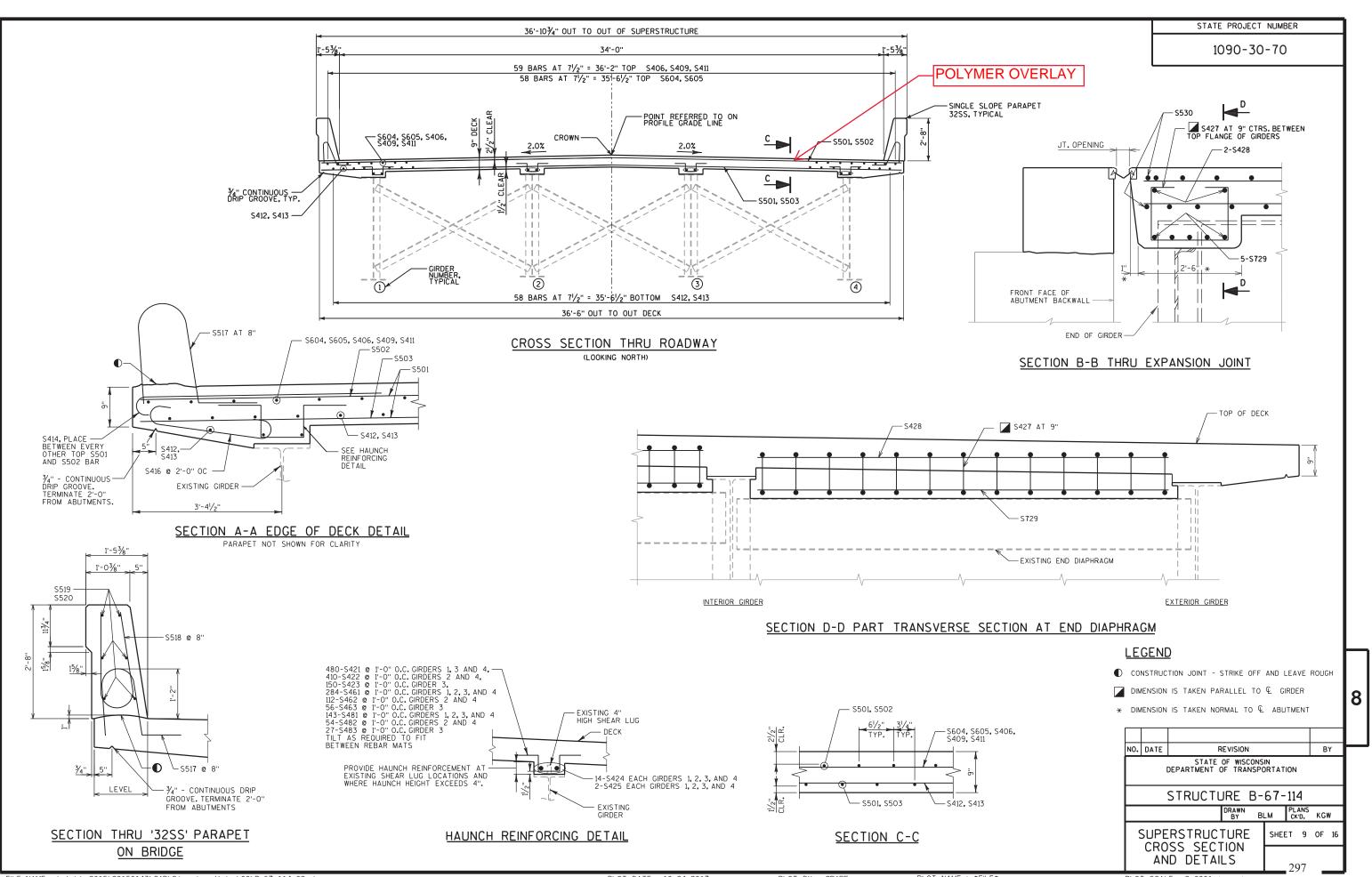
STATE PROJECT NUMBER



PLOT SCALE : 6.7500 sf / in.



PLOT SCALE : 2.0000 in / in.



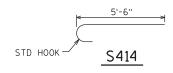
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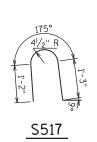
PLOT BY : GRAEF

PLOT NAME : \$FILE\$

PLOT SCALE : 2.0001 in / in.



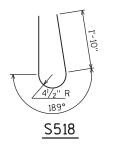
MARK	COATED	NO. REQ'D	LENGTH	BAR SERIES	BENT	LOCATION
S501	X	1449	36'-2"	N	N	DECK TRANSVERSE - TOP AND BOTTOM
S502	X	100	17'-9"	Y	N	DECK TRANSVERSE - N. AND S. ENDS
S503	X	100	18'-1"	Y	N	DECK TRANSVERSE - N. AND S. ENDS
S604	X	58	59'-6"	N	N	DECK LONGITUDINAL TOP OVER PIER 1
\$605	X	58	55'-6"	N	N	DECK LONGITUDINAL TOP OVER PIER 2
S406	Х	236	60'-0"	N	Ν	LONGITUDINAL TOP
S409	Х	59	22'-0"	N	N	LONGITUDINAL TOP SPAN 2
S411	X	59	58'-6"	N	N	LONGITUDINAL TOP SPAN 3
S412	X	420	60'-0"	N	N	LONGITUDINAL BOTTOM AND OVERHANG
S413	X	60	10'-0"	N	N	LONGITUDINAL BOTTOM
S414	Х	776	5'-6"	N	Y	TRANSVERSE OVERHANG
S416	X	422	3'-11"	N	Y	TRANSVERSE OVERHANG
S517	X	1260	4'-5"	N	Y	PARAPET - VERTICAL DOWELS
S518	X	1260	5'-0"	N	Y	PARAPET - VERTICAL
S519	X	72	60'-0"	N	N	PARAPET - HORIZONTAL
S520	Х	12	50'-0"	N	N	PARAPET - HORIZONTAL
S421	Х	480	2'-11"	N	Y	HAUNCH - 12" FLANGE, GIRD 1 SPANS 1-3, GIRD 3 SPAN 1, GIRD 4 SPAN 1
S422	Х	410	3'-1"	N	Y	HAUNCH - 12" FLANGE, GIRD 2 SPANS 1-3, GIRD 4 SPANS 2-3
S423	Х	150	3'-3"	N	Y	HAUNCH - 12" FLANGE, GIRD 3 SPANS 2-3
S424	Х	56	60'-0"	N	N	LONGITUDINAL @ HAUNCH
S425	Х	8	6'-0"	N	Ν	LONGITUDINAL @ HAUNCH
S427	X	78	4'-8"	N	Y	STIRRUPS @ DIAPHRAGM END
S428	Х	12	11'-2"	N	N	END DIAPHRAGM TOP
S729	Х	30	11'-2"	N	N	END DIAPHRAGM BOTTON
S530	Х	8	18'-7"	N	N	DECK ENDS ALONG SKEW
S431	Х	12	13'-5"	N	Ν	EXPANSION JOINT
S532	Х	8	5'-0"	N	N	FLOOR DRAIN
S461	X	284	3'-1"	N	Y	HAUNCH - 16" FLANGE, GIRDER 1 - PIERS 1 AND 2, GIRDERS 2, 3 AND 4 - PIER 1
S462	Х	112	3'-5"	N	Y	HAUNCH - 16" FLANGE, GIRDER 2 - PIER 2, GIRDER 4 - PIER 2
S463	Х	56	3'-7"	N	Y	HAUNCH - 16" FLANGE, GIRDER 3 - PIER 2
S481	X	143	3'-3"	N	Y	HAUNCH - 18" FLANGE, GIRDER 1 - PIERS 1 AND 2, GIRDERS 2, 3 AND 4 - PIER 1
S482	Х	54	3'-7"	N	Y	HAUNCH - 18" FLANGE, GIRDER 2 - PIER 2, GIRDER 4 - PIER 2
S483	Х	27	3'-9"	N	Y	HAUNCH - 18" FLANGE, GIRDER 3 - PIER 2

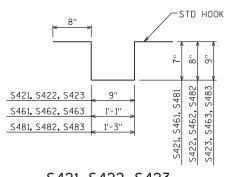


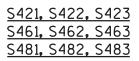
2'-11'

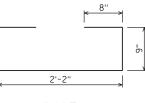
S416

-STD HOOK EACH END













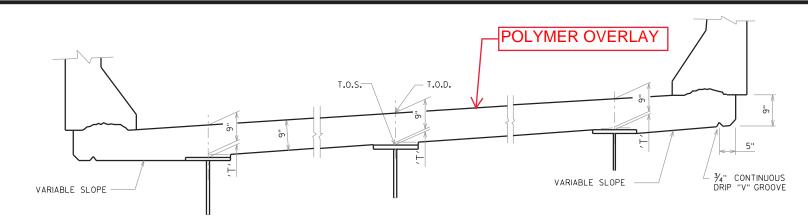
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STATE PROJECT NUMBER

1090-30-70

N0.	DATE	F		В	Y							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION												
STRUCTURE B-67-114												
	DRAWN BY BLM CKD.											
	SUPE	RSTRUC	TURE	SHE	ET 10	OF	16					
BILL OF BARS												
PL0	T SCAL	E: 2.0001 i	n / in.		•							



SECTION THRU SLAB

DEFLECTION TABLE (INCHES)

					C/L BF	RG		SPAN 1											
LOCATION					SOUT ABUT		0.1 SPAN	0.2 SPAN	0.3 SPAN	0.4 \$	SPAN 0	.5 SPAN	0.6 S	0.6 SPAN 0.7 S		F.S. #1	0.8 SPAN	0.9 SPAN	PIER 1
CON	CONCRETE DEFLECTION						1.2	2.1	2.8	3	3.1	3.1 2.7 2.1		2.1	1.5	1.3	0.5	0.0	
C/L BRG	SPAN 2															C/L BRG			
PIER 1	0.1 SF	PAN 0	.2 SPAN	0.3 S	PAN	F.S. #	2 0.4 SF	AN 0.5 SF	N 0.5 SPAN 0.6 SPAN		F.S. #3	0.7 S	0.7 SPAN 0.8			.9 SPAN	PIER 2		
0.0	-0.2	2	-0.2	0.	0	0.1	0.2	2 0.3	3 0.2	2	0.1	0.	0.0 -		.2	-0.2	0.0		
C/L BRG	G							S	PAN 3								C/L ERG		
PIER 2	2 0.1 SPAN 0.2 SPAN F.S. #4 0.3 SPAN 0.4 SPAN 0.			0.5 SP	AN	0.6 SPA	N 0.7	SPAN	0.8 \$	SPAN	0.9 SPAN	NORTH ABUT.							
0.0	0 0.5 1.3 1.5 2.0 2.6 3.0 3.0 2.7 2.0 1.1 0.0																		

DEFLECTIONS ARE DUE TO WEIGHT OF CONCRETE DECK AND PARAPETS. DEFLECTIONS ARE THEORETICAL AND MAY VARY IN THE FIELD. NEGATIVE VALUES ARE UPWARD DEFLECTIONS.

ELEVATIONS AT TOP OF DECK (T.O.D.) & TOP OF STEEL (T.O.S.)

		C/L BRG					SPA	AN 1					C/L BRG						SPAN	2			
LOCATION		SOUTH ABUT.	0.1 SPAN	0.2 SPAN	0.3 SPAN	0.4 SPAN	0.5 SPAN	0.6 SPAN	0.7 SPAN	F.S.#1	0.8 SPAN	0.9 SPAN	PIER 1	0.1 SPAN	0.2 SPAN	0.3 SPAN	F.S. #2	0.4 SPAN	0.5 SPAN	0.6 SPAN	F.S.#3	0.7 SPAN	0.8 SPAN
WEST DECK EDGE	T.D.	974.34	974.24	974.14	974.04	973.94	973.84	973.74	973.64	973.57	973.54	973.44	973.33	973.24	973.14	973.04	972.98	972.94	972.84	972.74	972.68	972.64	972.54
GIRDER 1	T.D.	974.37	974.27	974.17	974.07	973.97	973.87	973.77	973.67	973.60	973.57	973.47	973.37	973.27	973.17	973.07	973.01	972.97	972.87	972.77	972.71	972.67	972.57
GINDER	T.S.	973.32								972.76			972.43				971.98				971.63		
GIRDER 2	T.D.	974.51	974.41	974.31	974.21	974.11	974.01	973.91	973.81	973.74	973.71	973.61	973.51	973.41	973.31	973.21	973.15	973.11	973.01	972.91	972.85	972.81	972.71
ON DEI 2	T.S.	973.37								972.77			972.43				971.98				971.61		
CROWN	T.D.	974.58	974.48	974.38	974.28	974.18	974.08	973.98	973.88	973.81	973.78	973.68	973.58	973.48	973.38	973.28	973.22	973.18	973.08	972.98	972.93	972.88	972.78
GIRDER 3	T.D.	974.46	974.36	974.25	974.15	974.05	973.95	973.85	973.75	973.68	973.65	973.55	973.45	973.35	973.25	973.15	973.10	973.05	972.95	972.85	972.80	972.75	972.65
GINDER 3	T.S.	973.31								972.75			972.43				971.94				971.56		
GIRDER 4	T.D.	974.20	974.10	974.00	973.90	973.80	973.70	973.60	973.50	973.43	973.40	973.30	973.19	973.09	973.00	972.90	972.84	972.80	972.70	972.60	972.54	972.50	972.40
GIRDER 4	T.S.	973.17								972.59			972.26				971.76				971.36		
EAST DECK EDGE	T.D.	974.15	974.05	973.94	973.84	973.74	973.64	973.54	973.44	973.37	973.34	973.24	973.14	973.04	972.94	972.84	972.79	972.74	972.64	972.54	972.49	972.44	972.34

8

		C/L BRG					SP	AN 3					C/L BRG
LOCATION		PIER 2	0.1 SPAN	0.2 SPAN	F.S. #4	0.3 SPAN	0.4 SPAN	0.5 SPAN	0.6 SPAN	0.7 SPAN	0.8 SPAN	0.9 SPAN	NORTH ABUT.
WEST DECK EDGE	T.D.	972.34	972.24	972.14	972.12	972.04	971.95	971.85	971.75	971.65	971.55	971.46	971.36
GIRDER 1	T.D.	972.37	972.27	972.17	972.15	972.07	971.98	971.83	971.78	971.68	971.58	971.49	971.39
GIRDER	T.S.	971.21			971.14								970.38
GIRDER 2	T.D.	972.51	972.41	972.31	972.29	972.22	972.12	972.02	971.92	971.82	971.73	971.63	971.53
GIRDER 2	T.S.	971.21			971.14								970.40
CROWN	T.D.	972.58	972.48	972.39	972.36	972.29	972.19	972.09	971.99	971.89	971.80	971.70	971.60
GIRDER 3	T.D.	972.45	972.36	972.26	972.23	972.16	972.06	971.96	971.87	971.77	971.67	971.57	971.47
GIRDER 3	T.S.	971.11			971.05								970.33
GIRDER 4	T.D.	972.20	972.10	972.00	971.98	971.90	971.81	971.71	971.61	971.51	971.41	971.32	971.22
GIRDER 4	T.S.	970.92			970.85								970.16
EAST DECK EDGE	T.D.	972.14	972.05	971.95	971.92	971.85	971.75	971.65	971.56	971.46	971.36	971.26	971.16

NOTES

TOP OF DECK ELEV. AT FINAL GRADE. TOP OF STEEL ELEV. AS ERECTED + CONC. ONLY DEFLECTION; DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED.

DECK THICKNESS

= 'T' VALUE FOR SETTING HAUNCH.

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HAUNCH DETAIL

11/4" MINIMUM HAUNCH FOR CONSTRUCTION

STATE PROJECT NUMBER

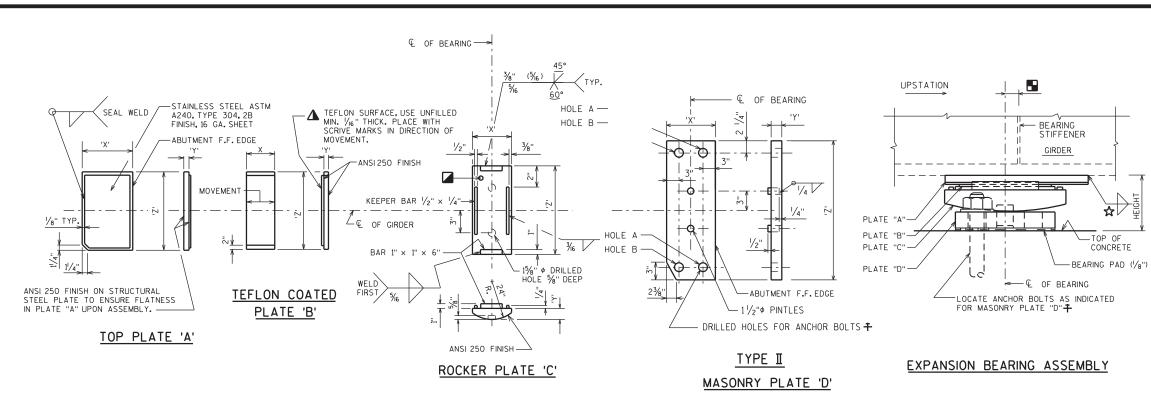
1090-30-70

T' = HAUNCH HEIGHT AT CENTERLINE OF GIRDER.

TO DETERMINE 'T': ELEVATIONS OF THE TOP FLANGE SHALL BE TAKEN AT CENTERLINE OF BEARING AND AT 0.1 POINTS.

	C/L BRG
0.9 SPAN	PIER 2
972.44	972.34
972.47	972.37
	971.21
972.61	972.51
	971.21
972.68	972.58
972.55	972.45
	971.11
972.30	972.20
	970.92
972.24	972.14

NO.	DATE	F	EVISION				В	Y		
	ĺ	STATE DEPARTMENT (OF WISCO OF TRAN			ION				
STRUCTURE B-67-114										
			DRAWN BY	BI	LM	PLANS CK'D.	KG	W		
		P OF DE			SHEE	ET 11	OF	16		
	EL	EVATION	IS			299				



18" BEARING AT ABUTMENTS

8

CAP.	PL	ATE	А	ΡL	ATE	В	Ρ	LATE	С	PL	ATE	D	HEIGHT
KIPS	Х	Y	Ζ	Х	Y	Ζ	х	Y	Z	Х	Y	Z	FEET
280	1'-1''	5⁄8''	1'-6''	7''	1/2"	1'-8''	9"	1 ¹⁵ ⁄16 ''	1'-10 ¹ /4''	9"	11/2"	2'-6"	0.401

USED AT NORTH AND SOUTH ABUTMENTS ON ALL BEARINGS - 8 REQUIRED

۴F	S. ABUT.	N. ABUT.
30	0.2	-0.3
45	0	0
60	-0.2	0.3
75	-0.4	0.6
90	-0.5	0.9

BEARING OFFSET TABLE

ALL DIMENSIONS IN INCHES AMBIENT TEMPERATURE DURING GIRDER INSTALLATION.

☆ TABLE OF FILLET WELD SIZES

MIN. SIZE OF FILLET WELD
3/16 ''
1/4"
△ 5/16 ''
△ 3/8"

STATE PROJECT NUMBER

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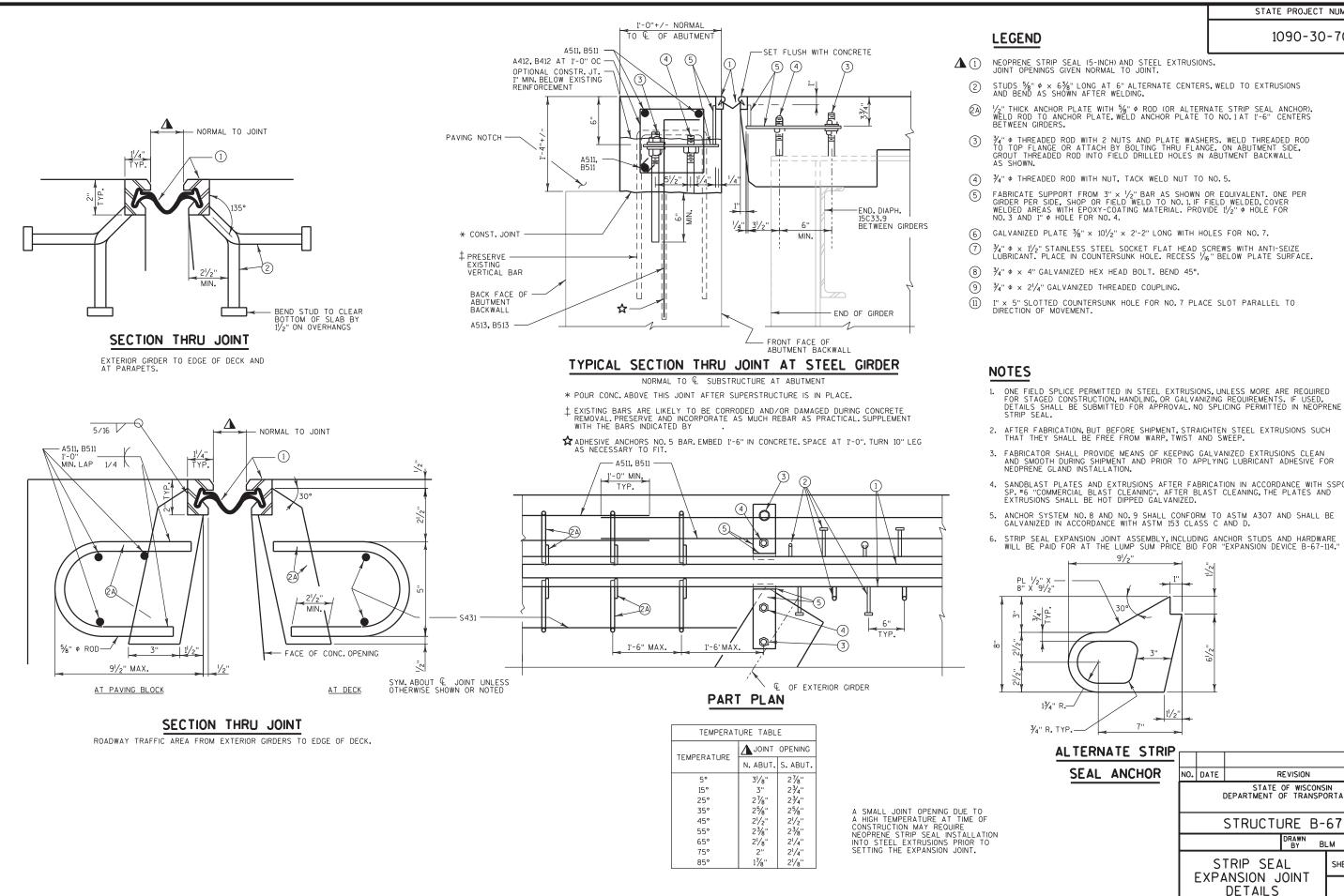
NOTES	
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ALL BEARINGS ARE SYMMETRICAL ABOUT & OF GIRDER AND € OF BEARING. ANCHOR BOLTS. NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A153. CLASS C. ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES. ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACES, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W. IN LIEU OF USING SHIM PLATES FABRICATOR MAY INCREASE THICKNESS OF TOP PLATE PLATE "A" OR MASONRY PLATE "D" BY THE SHIM PLATE THICKNESS. ALL MATERIALS IN TYPE "A-T" BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-67-114", EACH. CHAMFER ANCHOR BOLTS PRIOR TO THREADING. ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING. ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT, PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS +21/4", ABOVE TOP OF CONCRETE. CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT. STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION. PLACE SHIM PLATES BETWEEN BEARING PAD AND MASONRY PLATE "D". PLATES SHALL HAVE 'X' AND 'Z' DIMENSIONS THAT MATCH MASONRY PLATE "D". PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING. ▲ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING THE REQUIREMENTS FOUND IN THE STANDARD SPECIFICATIONS. ➡ DRILLED HOLES FOR ANCHOR BOLTS IN MASONRY PLATE "D" SHALL HAVE A DIAMETER ¾" LARGER THAN ANCHOR BOLT. TWO BOLTS ARE REQUIRED AND MAY BE PLACED IN EITHER HOLES "A" OR "B". FILL UNUSED HOLES IN CONCRETE OR PLATE "D" WITH NONSHRINK GROUT OR CAULK. AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, OR ANY OTHER FOREIGN MATTER. ANCHOR BOLTS TO BE (2) $1^{1}\!/_{2}^{"}$ DIA \times 1'-10" LONG. HEIGHT OF BEARINGS GIVEN IN TABLES INCLUDES 1/8" BEARING PAD, 16 GAGE STAINLESS STEEL SHEET AND 1/16" TEFLON SURFACE. NO. DATE REVISION ΒY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-67-114 DRAWN PLANS CKD, KGW BLM EXPANSION SHEET 12 OF

BEARING

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DETAILS PLOT SCALE : 2.0001 in / in.



STATE PROJECT NUMBER

1090-30-70

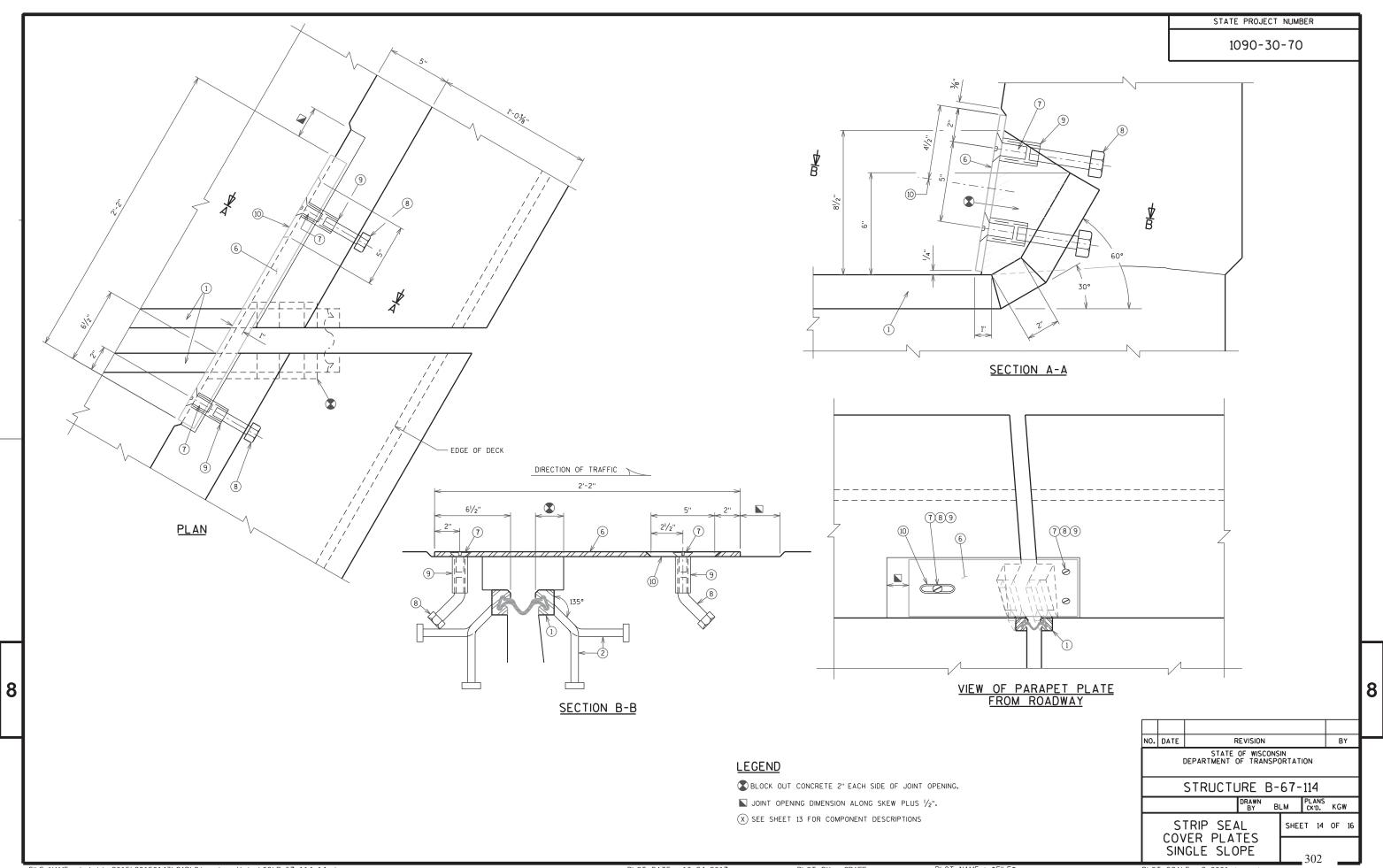
2. AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

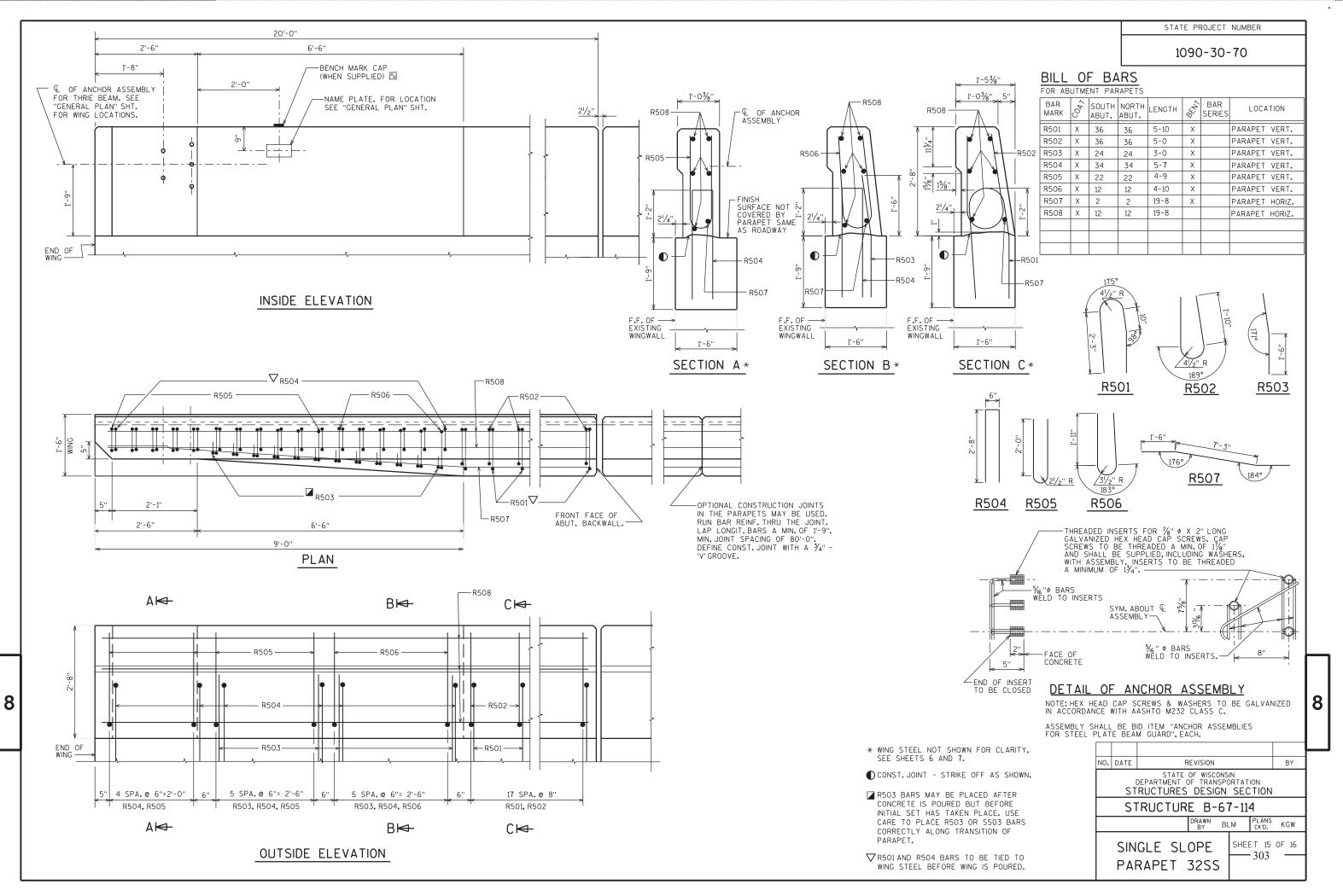
SANDBLAST PLATES AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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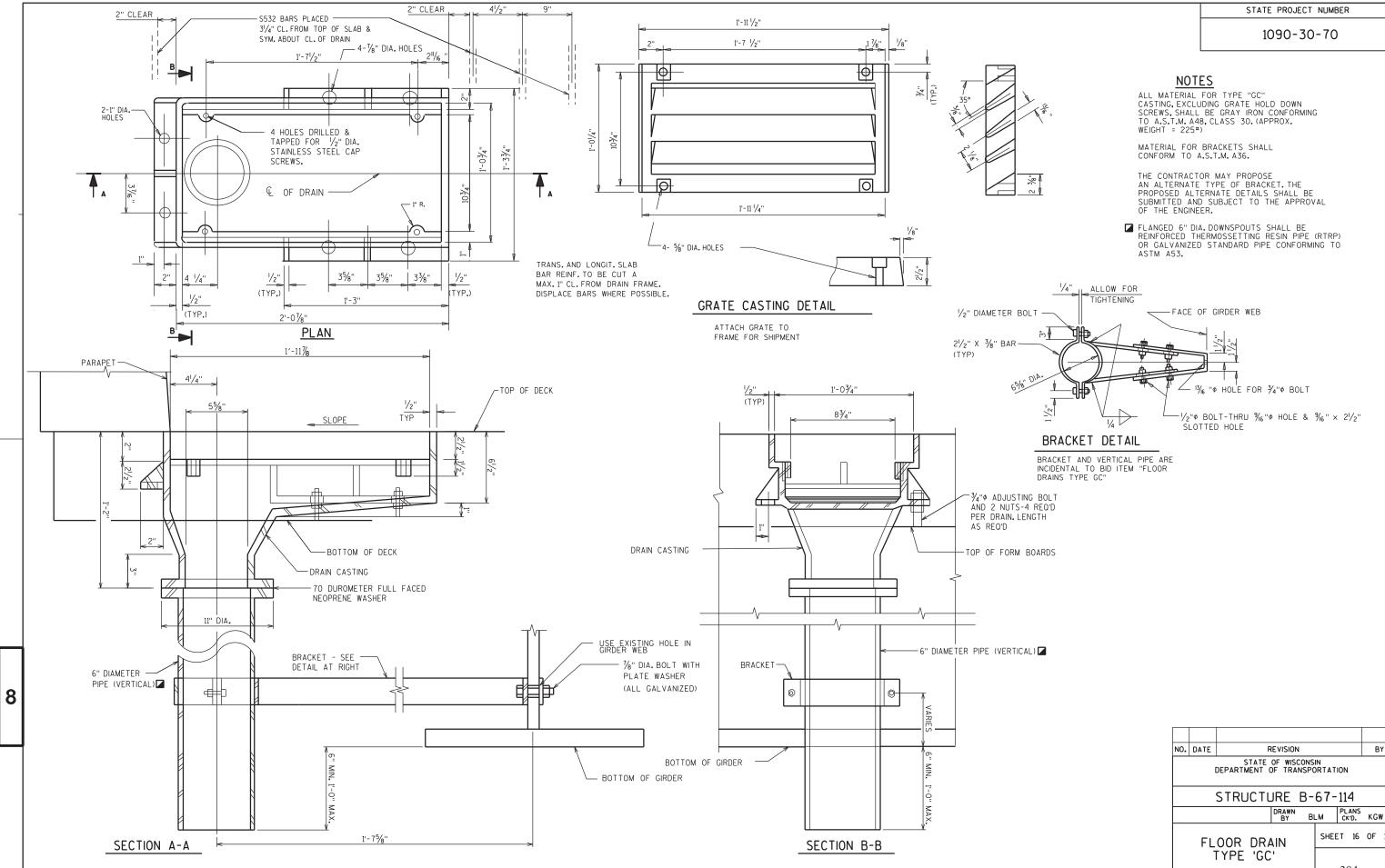
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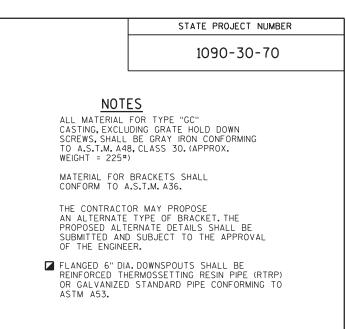


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