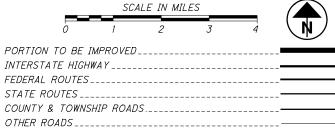


 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 



CURRENT ADT (2010)\_\_\_\_\_

DESIGN YEAR ADT (2030)\_\_\_\_\_ 174,300

DESIGN HOURLY VOLUME (2030)\_\_\_\_\_ 14.640

DIRECTIONAL DISTRIBUTION \_\_\_\_\_ 0.54

TRUCKS (24 HOUR B&C)\_\_\_\_\_ 0.16

DESIGN DESIGNATION

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# HAM-75-3.84 HAM-74-1908S

# HAMILTON COUNTY CITY OF CINCINNATI

INDEX OF SHEETS:

IR 74

EAST OF

BEEKMAN

88,300

102,000

9.180

0.73

0.13

WEST OF

BEEKMAN

75,000

89,300

8.040

0.72

0.15

IR 75

SOUTH OF

IR 74

152,100

179,200

15.050

0.70

0.13

SOUTH OF

MITCHELL

149.400

TITLE SHEET	1	* S7
SITE PLANS	2-3	DE
GENERAL PLANS	4-5	DE
REFERENCE CHORD LAYOUT	6	DE
* GENERAL NOTES	7-9	EX
* STAGED CONSTRUCTION DETAILS	10-12	DR
*REMOVAL DETAILS	13-16	EL
* FOUNDATION PLANS	17 – 31	AF
* BEARING DETAILS	32-36	RE
*STEEL DETAILS – UNIT 1	37-41	* /

DIRECTIONAL ROADWAY

IR 75 NB TO IR 74 EB TO

IR 75 SB

25,300

29,800

4.380

1.00

0.08

IR 74 WB

25,300

29,800

4.100

1.00

0.03

TEEL DETAILS - UNIT 2 42-52 ECK & PARAPET DETAILS - UNIT 1 53-57 58-61.60 ECK & PARAPET DETAILS - UNIT 2 ECK POURING SEQUENCE 62 63 XPANSION JOINT DETAILS RAINAGE DETAILS 64 LEVATION TABLES 65-70 PPROACH SLAB AND PARAPET 71 - 73 74-79 PEINFORCING STEEL LIST REVIEWED IN BU-05 SUBMISSION

#### SOE Shop Drawings Bearing Shop Drawings Structural Steel Shop Drawings 116-184 Expansion Joint Shop Drawings 185-189

ENGINEERS SEAL:	ENGINEERS SEAL:
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 201 WILL OF OF BRUCE E-59019 Costers Sonat Charles	
SIGNED:	SIGNED:
DATE.	DATE

	0110	0.10	0.10	0.10	0.00	0.00			30	ハ E−59019 (∝ミ		66634	. 8
DESIGN SPEED	60 MPH	60 MPH	60 MPH	60 MPH	50 MPH	50 MPH			I. Kali	CISTER	PRO	COLSTER EDWIN	5
LEGAL SPEED	55 MPH	55 MPH	55 MPH	55 MPH	50 MPH	50 MPH			3	SONAL ENGINE	AND CO	SGIONAL ENGLID	/
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATI	E		SIGNED:_ DA TE:		SIGNED:		
NHS PROJECT	YES										-	SUPPLEI	MENTAL
DESIGN EXCEPTIONS						STANDARD	CONSTRUCTION DI					SPECIFIC	
DESIGN FEATURE	APPROVAL DATES	SHEET NUMB	FRS BP-1.1	7/28/00 I-2	.4 1/15/	6 MGS-5.3	7/15/16 VPF-1-90		MT-95.32	7/21/17 TC-21.50		6 800-2016	
		SHEET NUMB SEE BU-14		7/17/15		MGS-6.1	1/19/18 HL-10.11		MT-95.50	7/21/17 TC-22.10			3/2/15
STOP. SIGHT DIST SB IR 75 (CURVE 6)	4/6/18		BP-2.2	7/18/08 MH-	-1.2 1/15/	-	HL-10.12	1/20/17 /		1/19/18 TC-22.20			10/16/15
SHOULDER WIDTH – IR 74–1892R BRIDGE SHOULDER WIDTH – RAMP P 1908S BRIDGE	4/10/18 4/11/18		BP-2.3	7/18/14		RM-1.1	7/18/14 HL-10.13	1/20/17		7/21/17 TC-41.30			1/19/18
CURVE RADIUS - RAMP P 1908S BRIDGE	4/11/18		BP-2.4	7/19/13 DM- 7/18/14 DM-		7 RM-4.1 3 RM-4.3	7/21/17 HL-10.15		MT-99.30	1/19/18 TC-42.10	10/18/13		7/15/16
STOP. SIGHT DIST RAMP P 1908S BRIDGE	4/11/18		BP-3.1 BP-6.1	7/18/14 DM- 7/19/13 DM-		14 RM-4.4	7/18/14 HL-20.11 7/21/17 HL-20.21		MT-101.70 MT-101.75	1/17/14 TC-42.20 7/15/16 TC-52.10	0 10/18/13 10/18/13		4/20/12
S.E. RATE – IR 74 EB CURVE 14, 1908R BRIDGE	4/26/18		BP-8.1	7/18/08 DM-		3 RM-4.5	7/21/17 HL-20.21		MT-101.75 MT-101.80	1/16/18 TC-52.20			10/17/14
			<i>DI</i> 0.1			6 RM-4.6	7/19/13 HL-30.11		MT-101.90	7/21/17 TC-61.30			10/20/17
			CB-1.1	1/15/16 DM-		2 A-1-69	7/19/02 HL-30.21		MT-102.20	7/18/14 TC-65.10			7/15/16
			CB-1.2	1/15/16 DM-		6 AS-1-15	7/17/15 HL-30.22		MT-104.10	10/16/15 TC-65.11	7/21/17		4/20/12
			CB-1.3	1/15/16 DM-		6 AS-2-15	1/19/18 HL-30.31		MT-105.10	7/19/13 TC-71.10	1/19/18		7/17/15
			CB-2.1	1/15/16		EXJ-4-87	1/19/18 HL-30.32	1/17/14		TC-72.20	7/15/16	3	
			CB-2.2	1/15/16 MGS	5-1.1 1/19/	18 GSD-1-96	7/19/02 HL-30.33	1/17/14	TC-7.65	1/15/16			
			CB-2.3	1/15/16 MGS	5-2.1 1/19/	18 PCB-91	1/18/13 HL-30.41	1/19/18	TC-9.10	1/19/18 ITS-13.10	7/17/15		CIAL
PLAN PREPARED BY:			CB-3.1	1/15/16 MGS		18 PSID-1-13	7/15/16 HL-40.10	1/20/17		1/19/18 ITS-14.10			
EAO WUITE DOND DRI			CB-3.3	1/15/16 MGS		'3 RB-1-55	7/19/13 HL-40.20	1/20/17		1/19/18 ITS-14.11	7/17/15	2	510/13
540 WHITE POND DRI AKRON, OH 44	VE, SIE E 320					7 SBR-1-13	1/14/14 HL-50.11	1/16/15		10/18/13 ITS-15.10			
	50		I-2.1	1/15/16 MGS		3 SBR-2-13	1/14/14 HL-50.21	1/19/18		1/19/18 ITS-15.11	7/17/15		
			<i>I-2.2</i>	1/15/16 MGS		3 SICD-1-96	7/18/14 MT-95.30	7/21/17		7/21/17 ITS-50.10	) 1/19/18	4	
			I-2.3	1/15/16 MGS	5-5.2 1/15/1	16 SICD-2-14	7/18/14 MT-95.31	7/21/17	16-21.20	1/19/18		1	

## PROJECT DESCRIPTION

THIS IS PHASE 5A OF THE HAMILTON 75 CORRIDOR PROJECTS (MCE). THE PROJECT ADDS A LANE TO IR 75 SB, PROVIDES 4-LANE CONTINUITY NB, AND RECONFIGURES IR 74 EB RAMPS TO IR 75. THE PROJECT ALSO INCLUDES SURFACE COURSE AND ADDITIONAL PAVEMENT WORK TO THE SOUTH AND IMPROVEMENTS TO RAMP A AT THE HOPPLE ST INTERCHANGE.

## BUILDABLE UNIT 7 DESCRIPTION

THIS BUILDABLE UNIT COVERS THE REQUIREMENTS FOR BU-07 SUBSTRUCTURE AND DECK FOR THE NEW HAM-74-1908S BRIDGE.

# LIMITED ACCESS

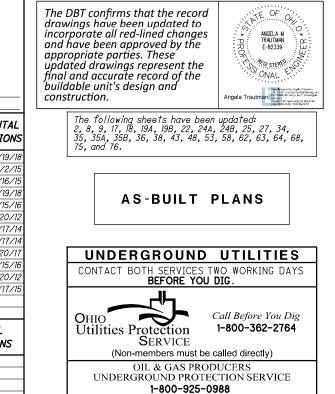
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

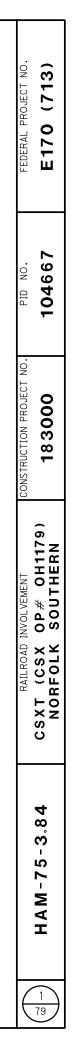
86-89

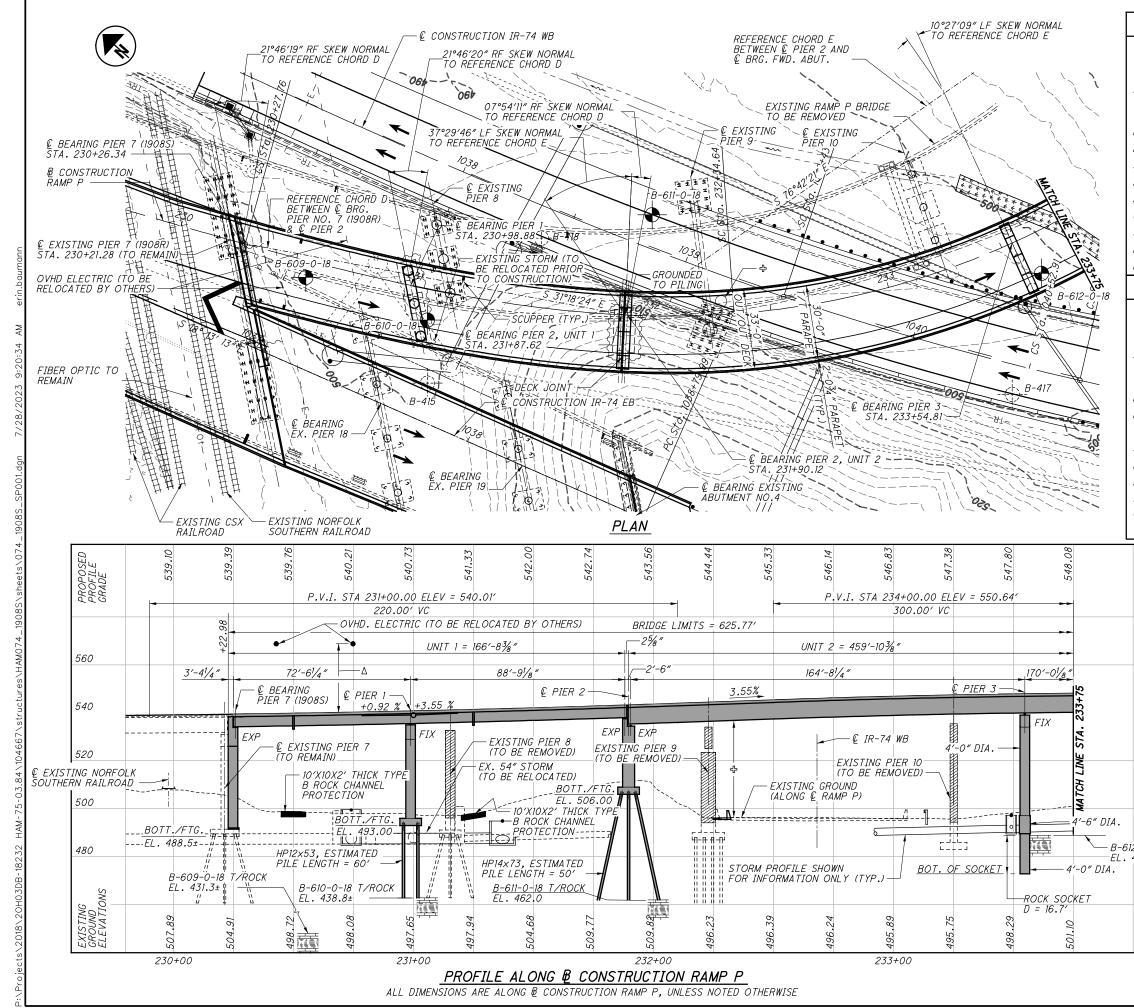
# 90-115 2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

> I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.





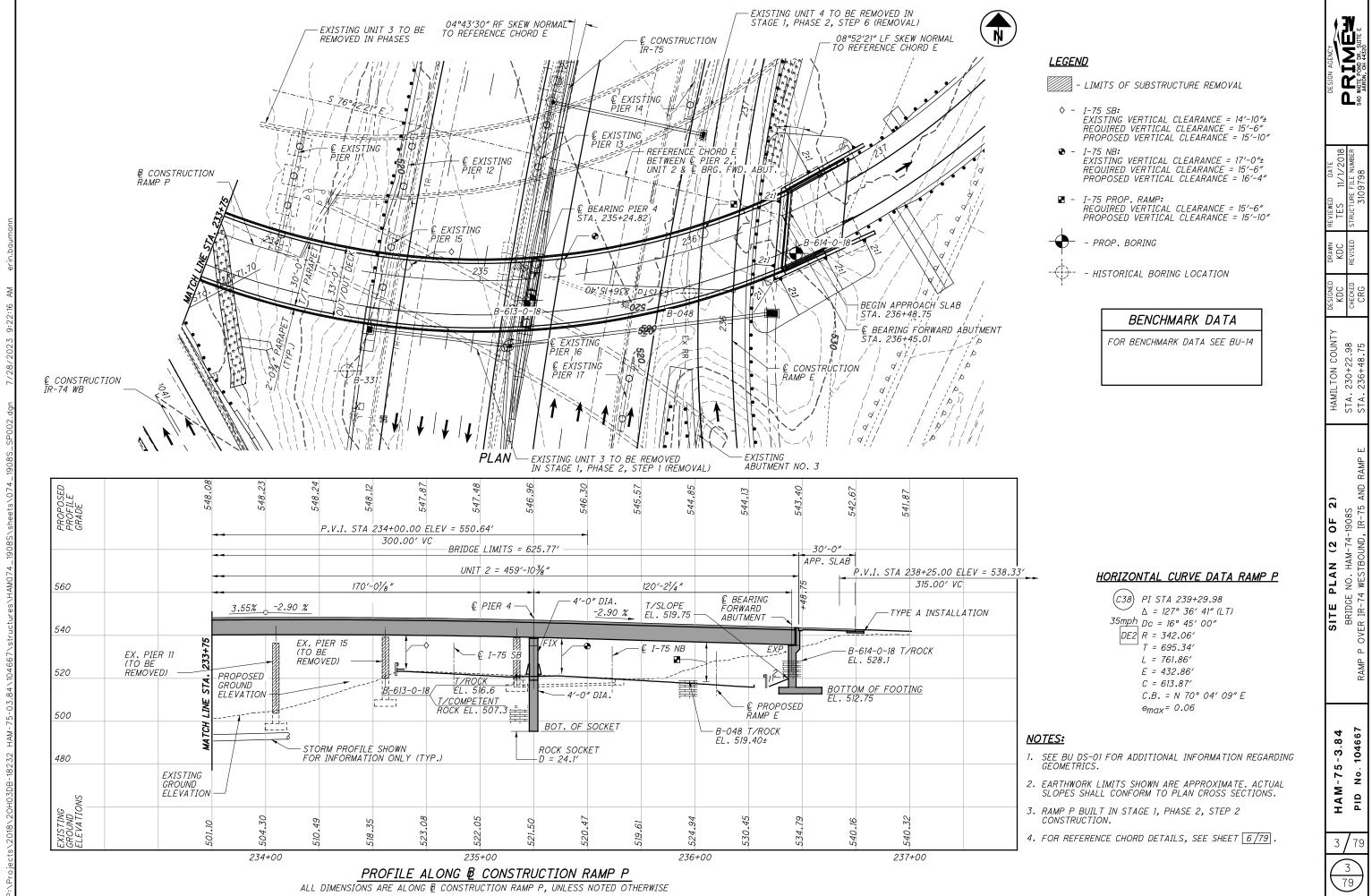


 $\bigcirc$ 

 $\bigcirc$ 

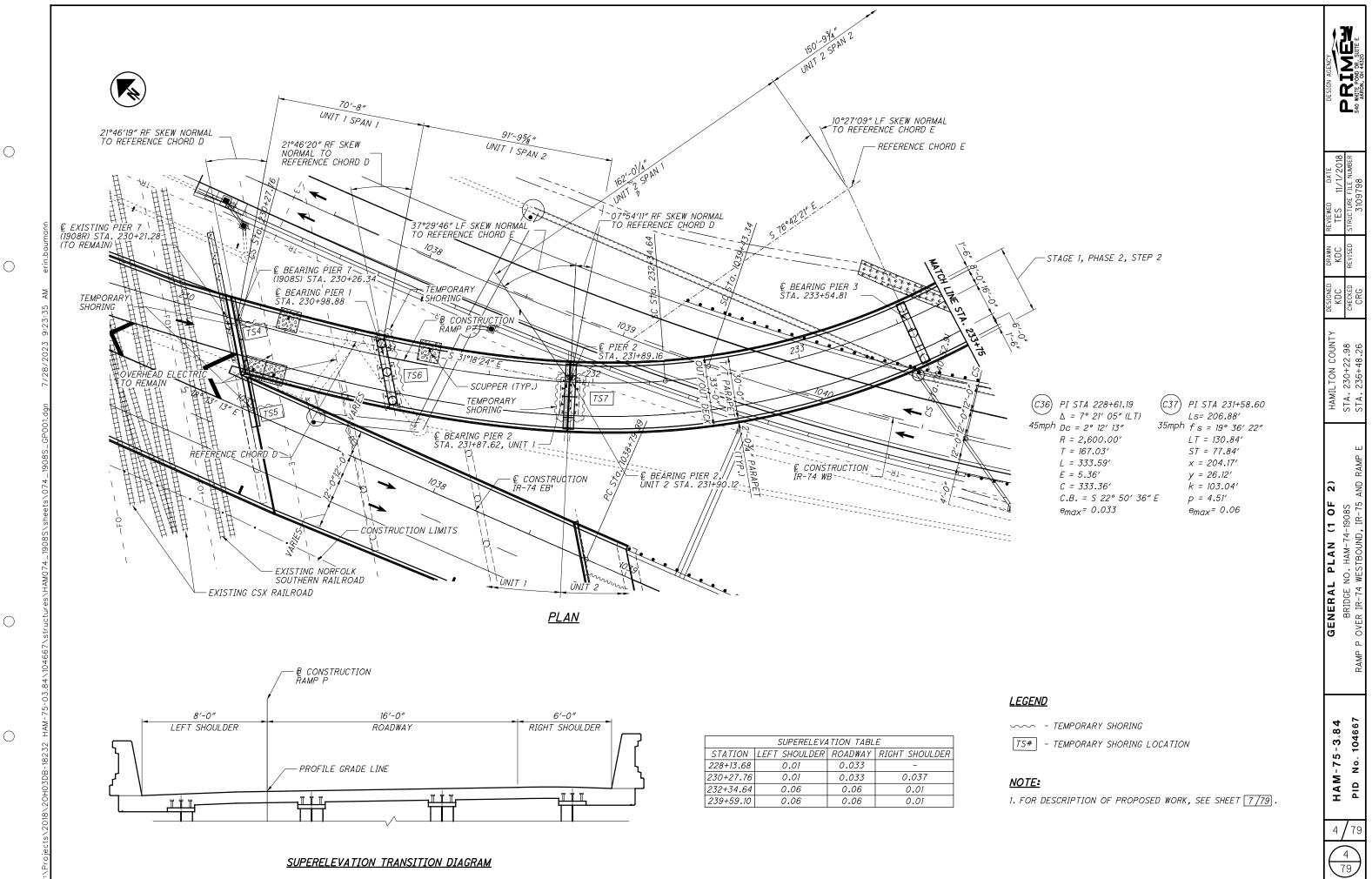
0

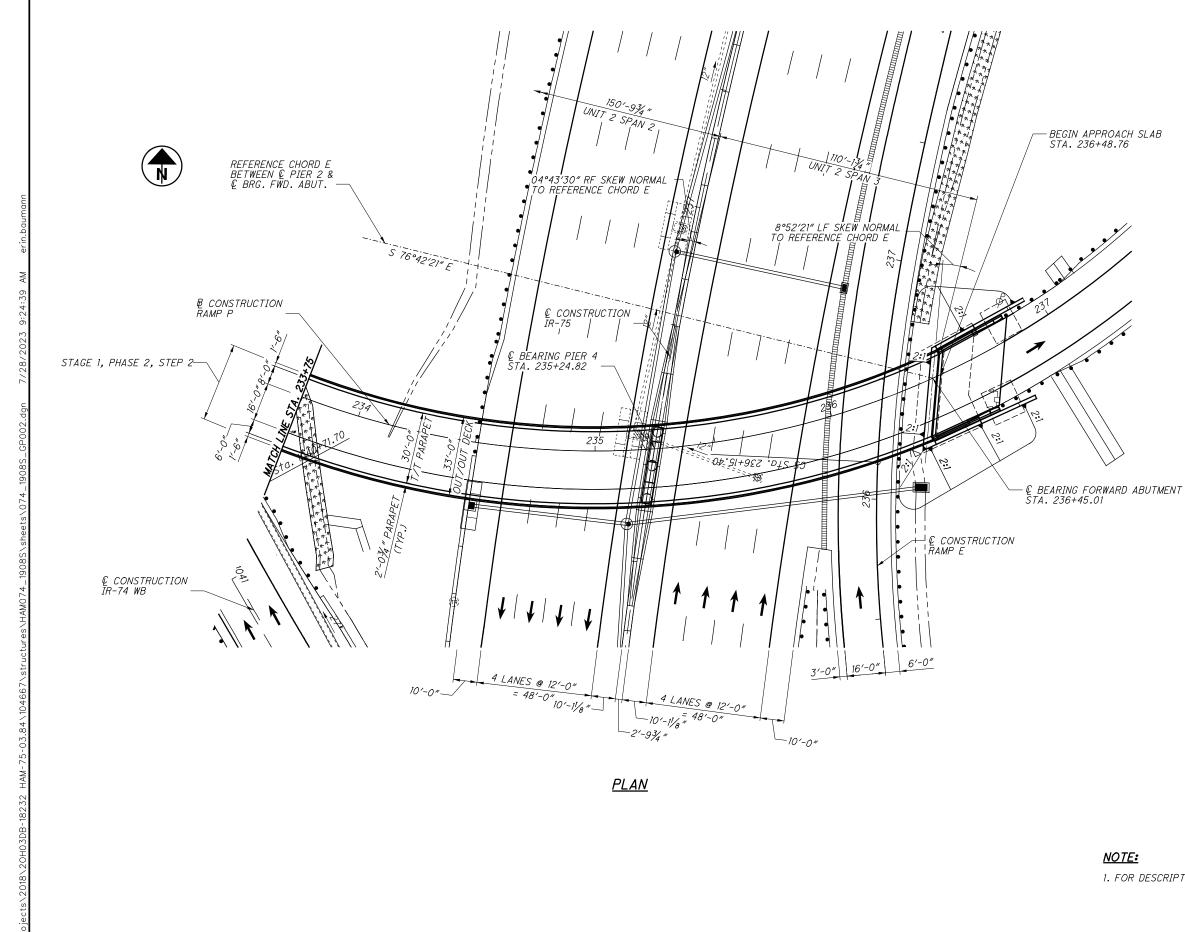
EXISTING STRUCTURE	
TYPE: CONTINUOUS WELDED PLATE GIRDER AND CONTINUOUS ROLLED STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE SPANS: UNIT 3 - 90'-0"±, 110'-0"±, 93'-0"±, 71'-31/4"± UNIT 4 - 45'-113/4"±, 63'-9"±, 79'-0"±, 63'-0"±	DESIGN AGENCY RING WHITE POUDR. SUITE E
UNIT 5 - 46'-7¾ "±, 63'-4¼ "±, 64'-0"±, 41'-0"± ROADWAY: VARIES LOADING: CF 2000 (57) AND ALTERNATE MILITARY	
SKEW: VARIES	
APPROACH SLABS: AS-1-67 (25' LONG)	ATE /2018 NUMBER
ALIGNMENT: VARIES	DATE 11/1/2( FILE NUM 798
CROWN: VARIES	D 11 JRE FIL 10979
STRUCTURAL FILE NUMBER: 3109798	REVIEWED TES STRUCTURE F 3109
DATE BUILT: 1973	REVI T STRI
DISPOSITION: TO BE REMOVED (IN PHASES)	ξ U Ę
PROPOSED STRUCTURE	DRAWN KDC REVISED
TYPE: CONTINUOUS 48" WEB (UNIT 1) AND 78" WEB (UNIT 2) STEEL PLATE GIRDERS WITH COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURE	DESIGNED KDC CHECKED CRG
SPANS: UNIT 1 - 72'-6¼", 88'-9¼" UNIT 2 - 164'-8¼", 170'-0⅛", 120'-2¼" C/C BEARINGS MEASURED ALONG ₿ CONSTRUCTION RAMP P	~
ROADWAY: 30'-0" TOE/TOE PARAPET	0UN .98
LOADING: HL93 & 60 PSF FWS	HAMILTON COUNT STA. 230+22.98 STA. 236+48.75
WEARING SURFACE: 1" MONOLITHIC CONCRETE	LT0 236 236
SKEW: VARIES	AMII TA. TA.
APPROACH SLABS: 30'-0" LONG (AS-1-15 & AS-2-15)	r s s
ALIGNMENT: 2°15′00″ & 16°45′00″ CURVE LEFT	
SUPERELEVATION: 0.06 FT/FT MAX COORDINATES: LATITUDE 39°09′07.00″ N	ш
LONGITUDE 84°32′28.46″ W	RAMP
HORIZONTAL CURVE DATA RAMP P         (C36)       PI STA 228+61.19       (C37)       PI STA 231+58.60 $\Delta = 7^{\circ} 21' 05''(LT)$ $Ls = 206.88'$ 45mph $Dc = 2^{\circ} 12' 13''$ 35mph $f s = 19^{\circ} 36' 22''$ $R = 2,600.00'$ $LT = 130.84'$ $T = 167.03'$ $ST = 77.84'$ $L = 333.59'$ $x = 204.17'$ $E = 5.36'$ $y = 26.12'$ $C = 333.36'$ $k = 103.04'$ $C.B. = S 22^{\circ} 50' 36'' E$ $p = 4.51'$ $e_{max} = 0.033$ $e_{max} = 0.06$ NOTES:         1.       FOR NOTES, SEE SHEET $3/79$ .         2.       RAMP P BUILT IN STAGE 1, PHASE 2, STEP 2         CONSTRUCTION.	SITE PLAN (1 OF 2) BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND
<ul> <li>→ LIMITS OF SUBSTRUCTURE REMOVAL</li> <li>→ - I-74 WB: REQUIRED VERTICAL CLEARANCE = 15'-6" PROPOSED VERTICAL CLEARANCE = 40'-5"</li> <li>△ - DUKE OVHD ELECTRIC LINES: EXISTING VERTICAL CLEARANCE = 30'-6"± PROPOSED VERTICAL CLEARANCE = 29'-9"</li> </ul>	HAM-75-3.84 PID No. 104667
- + PROP. BORING	2 79
T - TEMPORARY SHORING	2 79



 $\bigcirc$ 

 $\bigcirc$ 





 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

HORIZONTAL CURVE DATA RAMP P

PERINE AND OR. SUITE F

3

11/1/

KDC

HAMILTON COUNTY STA. 230+22.98 STA. 236+48.26

RAMP

AND

ลิ

GENERAL PLAN (2 OF BRIDGE NO. HAM-74-1908S OVER IR-74 WESTBOUND, IR-75

۵.

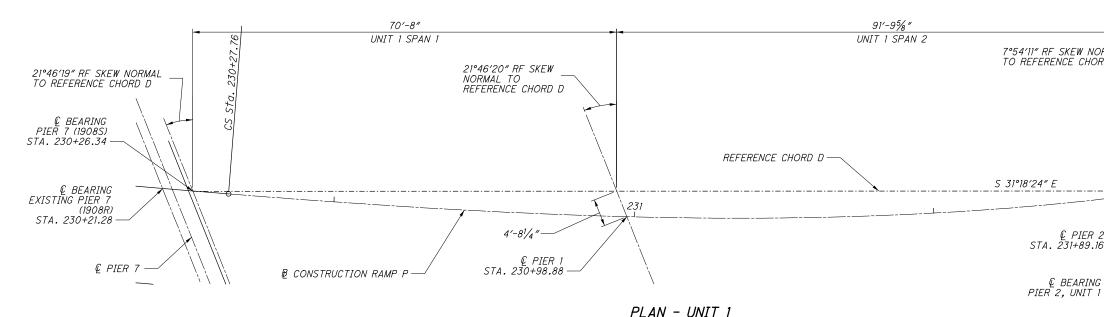
HAM-75-3.84 PID No. 104667

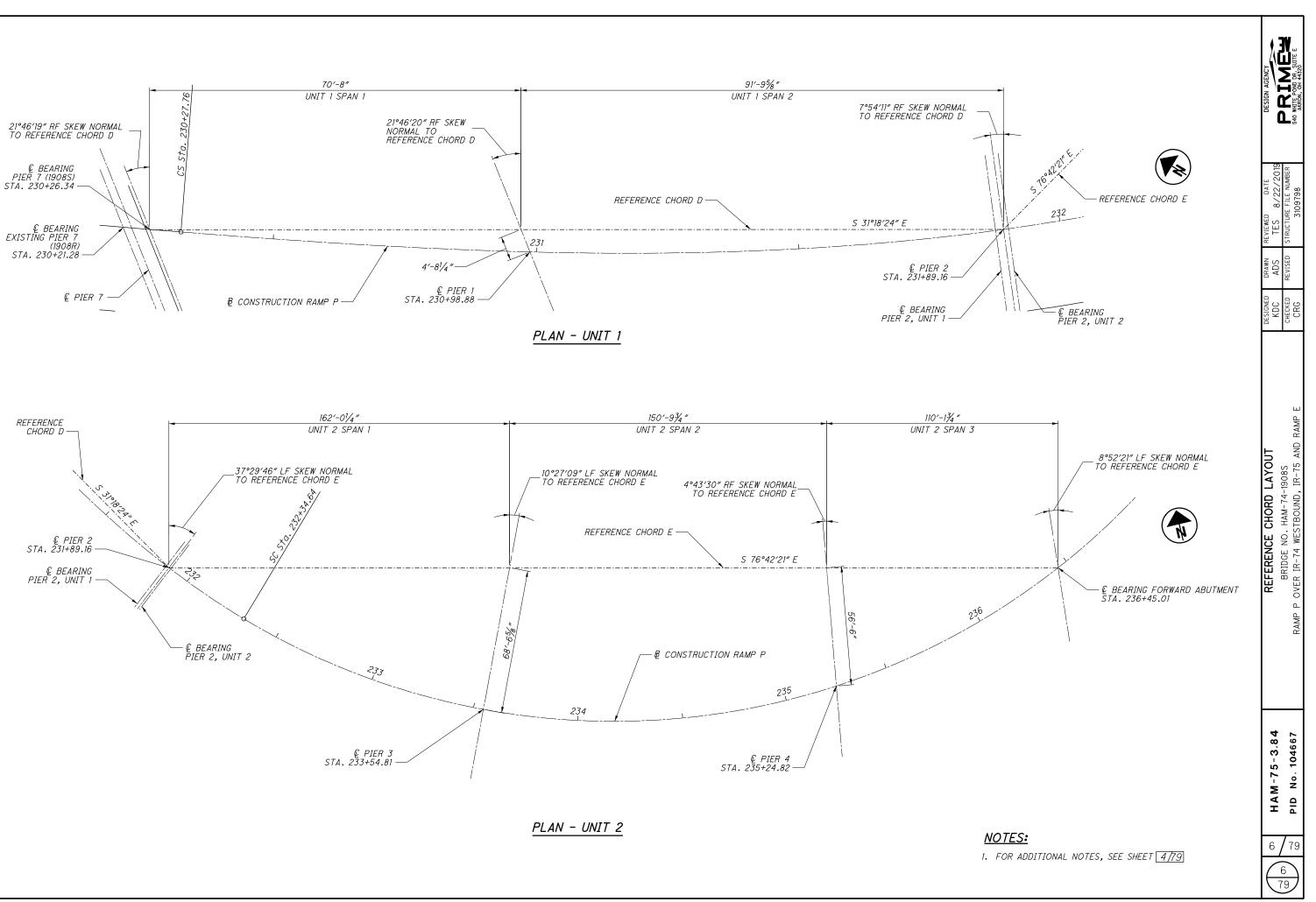
5 / 79

5 79

 $\begin{array}{c} \hline (38) & PI \ STA \ 239+29.98 \\ \Delta \ = \ 127^{\circ} \ 36' \ 41'' \ (LT) \\ 35mph \ Dc \ = \ 16^{\circ} \ 45' \ 00'' \end{array}$ DE2 R = 342.06'┘*T = 695.34′* L = 761.86' E = 432.86' C = 613.87' C.B. = N 70° 04′ 09″ E e<sub>MAX</sub>= 0.06

1. FOR DESCRIPTION OF PROPOSED WORK, SEE SHEET 7/79





 $\bigcirc$ 

 $\bigcirc$ 

#### STANDARD DRAWINGS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

4 <i>S-1-1</i> 5	REVISED	07-17-15
4 <i>S-2-15</i>	REVISED	01-19-18
VPF-1-90	REVISED	01-19-18
SBR-1-13	REVISED	01-14-14
EXJ-4-87	REVISED	01-19-18
GSD-1-96	REVISED	07-19-02

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S): 869 DATED 10-17-14

#### DESIGN SPECIFICATIONS:

 $\odot$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8TH EDITION AND THE 2018 INTERIMS, INCLUDING THE 2018 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

#### SPECIAL DESIGN SPECIFICATIONS:

THIS BRIDGE REQUIRED THE USE OF A THREE DIMENSIONAL MODEL USING THE FINITE ELEMENT DESIGN METHOD TO ANALYZE THE STRUCTURE. THE COMPUTER PROGRAM USED FOR STRUCTURAL ANALYSIS WAS "MDX". THE BRIDGE COMPONENTS DESIGNED BY THIS METHOD AND THE DEAD AND LIVE LOAD DISTRIBUTIONS WERE AS FOLLOWS:

DEAD LOAD DISTRIBUTION: SLAB DEAD LOADS ARE DISTRIBUTED BASED ON GIRDER SPACING. FUTURE WEARING SURFACE AND PARAPET LOADS ARE DISTRIBUTED DIRECTLY TO THE SLAB.

LIVE LOAD DISTRIBUTION: THE DESIGN PROGRAM CREATED A LIVE LOAD INFLUENCE SURFACE OVER THE DECK SURFACE AND DISTRIBUTED THE LOADS BASED ON THE LONGITUDINAL AND TRANSVERSE STIFFNESS. THE LIVE LOAD DISTRIBUTION FACTORS VARY ALONG THE LENGTH AND WIDTH OF THE STRUCTURE.

#### DESIGN DATA:

REDUNDANCY: THE DRILLED SHAFTS SUPPORTING THE PIERS WERE DESIGNED AS NON-REDUNDANT PER SCOPE OF SERVICES. THE SHAFT RESISTANCE WAS REDUCED TO 80% IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 10.5.5.2.3.

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

#### DESIGN LOADING:

HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ. FT.

#### **DESIGN STRESSES:**

CONCRETE CLASS QC3 WITH QC/QA-COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE) CONCRETE CLASS QC3 WITH QC/QA-COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) CONCRETE CLASS QC5 WITH QC/QA-COMPRESSIVE STRENGTH 4.5 KSI (DRILLED SHAFT) REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI. STRUCTURAL STEEL - ASTM A709 GRADE 50W - YIELD STRENGTH 50 KSI. STEEL H-PILES - ASTM A572 - YIELD STRENGTH 50 KSI.

#### DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

#### MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

#### PROPOSED BRIDGE WORK:

THE PROPOSED WORK CONSISTS OF REMOVING PORTIONS OF THE EXISTING STRUCTURES AS SHOWN IN THE PLANS AND CONSTRUCTING THE PROPOSED BRIDGE.

#### RAILROAD CONSTRUCTION CLEARANCE:

MAINTAIN A CONSTRUCTION CLEARANCE OF 12 FEET HORIZONTALLY FROM THE CENTER OF NEAREST TRACKS. ANY TEMPORARY VERTICAL CLEARANCE LESS THAN 23 FEET, OVER THE TRACKS, WILL REQUIRE SPECIAL PERMISSION, WITH NO GUARANTEE OF APPROVAL FROM CSX.

# STRUCTURE GENERAL NOTES

#### ITEM 202 - PORTIONS OF STRUCTURES REMOVED. AS PER PLAN:

THE PROPOSED WORK CONSISTS OF REMOVING PORTIONS OF THE EXISTING STRUCTURES AS SHOWN IN THE PLANS AND CONSTRUCTING THE PROPOSED BRIDGE.

ALL REQUIREMENTS OF ODOT CMS 202.03 SHALL APPLY WITH THE FOLLOWING ADDITIONS. THIS WORK SHALL INCLUDE THE PHASED REMOVAL OF THE EXISTING STRUCTURES AS INDICATED IN THE PLANS AND GENERAL NOTES. THE STRUCTURE WILL BE CAREFULLY REMOVED BY PHASED CONSTRUCTION METHODS AS FURTHER DESCRIBED IN THE FOLLOWING SECTIONS. THE USE OF EXPLOSIVES AND HEADACHE BALLS WILL NOT BE PERMITTED FOR ANY DEMOLITION OF EXISTING STRUCTURES.

#### PHASED CONCRETE DECK REMOVAL:

WHEN NO LONGER REQUIRED TO MAINTAIN TRAFFIC, REMOVE THE CONCRETE DECK IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION SHOWN IN THE PLANS. PERFORM WORK CAREFULLY DURING THE CUTTING OF THE DECK SLAB AND DURING DECK PICKING OPERATIONS TO AVOID ANY DAMAGE.

#### EXISTING WELDED ATTACHMENTS:

REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES.

#### CUT LINE CONSTRUCTION JOINT PREPARATION:

THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST, OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

#### PHASED CONCRETE ABUTMENT REMOVAL:

WHEN NO LONGER REQUIRED TO MAINTAIN TRAFFIC, THE EXISTING ABUTMENT SHALL BE REMOVED TO 1'-0" BELOW FINISHED GRADE.

#### PHASED CONCRETE PIER REMOVAL:

THE EXISTING PIERS SHALL BE REMOVED IN PHASES WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC. WHEN PORTIONS OF THE EXISTING STRUCTURE ARE TO REMAIN TO MAINTAIN TRAFFIC DURING PHASED CONSTRUCTION, HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED WITHIN TWO FEET OF THE PORTION TO BE TEMPORARILY PRESERVED. HAMMERS NOT EXCEEDING 90 POUNDS MAY BE USED TO REMOVE THE REMAINING TWO FOOT PORTION OF CONCRETE WITH CARE NOT TO DAMAGE THE REINFORCING STEEL AND CONCRETE OF THE PORTION OF STRUCTURE TO BE PRESERVED.

EXISTING PIERS THAT ARE NO LONGER NEEDED TO MAINTAIN TRAFFIC MAY BE REMOVED USING HOE-RAM TYPE HAMMERS AND PNEUMATIC TYPE HAMMERS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT NEW AND EXISTING CONCRETE STRUCTURES DURING THE PHASED CONSTRUCTION PROCESS AND SHALL PERFORM THE DEMOLITION OPERATIONS SUCH THAT THERE IS NO DAMAGE TO THE NEW STRUCTURE OR TO PORTIONS OF THE EXISTING STRUCTURE BEING TEMPORARILY MAINTAINED.

#### DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS.

A MAXIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 77 INCHES.

#### PILES TO BEDROCK:

DRIVE PILES TO REFUSAL OBTAINED WHEN THE PILE 20 BLOWS FROM THE PILE DEPTH TO BEDROCK AND

THE TOTAL FACTORED LO THE TOTAL FACTORED LO THE TOTAL FACTORED LO

#### PIER PILES: PIER 1: HP12X53 PILES 65 PIER 2: HP14X73 PILES 55

### PILE SPLICES:

IN LIEU OF USING THE FU STEEL H-PILES, THE CON SPLICERS FROM THE FOLL ASSOCIATED PILE AND FI 8 WOOD HOLLOW RD. PLA PARSIPPANY, NEW JERSEY

INSTALL AND WELD THE S MANUFACTURER'S WRITTEN WELDING IS PERFORMED.

### DRILLED SHAFTS:

THE MAXIMUM FACTORED I PIER NO. 3. THIS LOAD I SOCKET AND ALSO BY TIF RESISTANCE IS 1206 KIPS SOCKET FOR THE PIERS. 503 KIPS.

THE MAXIMUM FACTORED I PIER NO. 4. THIS LOAD I SOCKET AND ALSO BY TIF RESISTANCE IS 905 KIPS, SOCKET FOR THE PIERS. 503 KIPS.

CONFIRM DRILL SHAFT IN OR WITH A DEPTH TO BEL AND THERMAL INTEGRITY. TESTING PER THE SPECIF. ASTM D7949 - "STANDARD DEEP FOUNDATIONS".

#### FOUNDATION BEARING RES

ABUTMENT FOOTINGS, AS KIPS PER SQUARE FOOT A SQUARE FOOT. THE FACT

#### <u>SPREAD FOOTINGS:</u>

### SPREAD FOOTINGS ARE TO

#### PAINTING OF STRUCTURAL

THE OUTSIDE FASCIA GIRU FEDERAL COLOR 595B-34 THE FASCIA GIRDER WILL THE BOLTED AREA. ALL I SCUPPERS, BEARINGS AND UNIT WILL BE PAINTED. T COLOR SHALL CLOSELY A (THE COLOR OF WEATHER.

AS-BUILT NOTE: SHERWIN

. ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE E PENETRATION IS AN INCH OR LESS AFTER RECEIVING AT LEAST E HAMMER. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED REFUSAL.	DESIGN AGENCY PRINCIPALITY 540 WHEF POWD DR. SUITE E ARROW, OH 44320
DAD IS 224 KIPS PER PILE FOR THE EX. PIER 7 PILES. DAD IS 343 KIPS PER PILE FOR THE PIER 1 PILES. DAD IS 311 KIPS PER PILE FOR THE PIER 2 PILES.	2019 IBER
5 FEET LONG, ORDER LENGTH 5 FEET LONG, ORDER LENGTH	reviewed date TES 8/22/3 structure file num 3109798
ULL PENETRATION BUTT WELDS SPECIFIED IN CMS 507.09 TO SPLICE TRACTOR MAY USE A MANUFACTURED H-PILE SPLICER. FURNISH LOWING MANUFACTURER: TTING CORPORATION	DRAWN REVIEWEI KDC TES REVISED STRUCTU
AZA 1 Y 07054	
SPLICER TO THE PILE SECTIONS IN ACCORDANCE WITH THE N ASSEMBLY PROCEDURE SUPPLIED TO THE ENGINEER BEFORE THE	DESIGNEI KDC CHECKEI CRG
LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 1663 KIPS AT IS RESISTED BY SIDE RESISTANCE WITHIN A PORTION OF THE BEDROCK P RESISTANCE. THE FACTORED RESISTANCE DEVELOPED BY SIDE 5, ASSUMED TO ACT ALONG THE BOTTOM 16 FEET OF THE BEDROCK THE FACTORED RESISTANCE PROVIDED BY THE DRILLED SHAFT TIP IS	) AND RAMP E
LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 1340 KIPS AT IS RESISTED BY SIDE RESISTANCE WITHIN A PORTION OF THE BEDROCK P RESISTANCE. THE FACTORED RESISTANCE DEVELOPED BY SIDE , ASSUMED TO ACT ALONG THE BOTTOM 12 FEET OF THE BEDROCK THE FACTORED RESISTANCE PROVIDED BY THE DRILLED SHAFT TIP IS	NOTES (1 OF 3 . HAM-74-1908S .STBOUND, IR-75
TEGRITY FOR ALL DRILLED SHAFTS 4-FEET. IN DIAMETER OR GREATER DROCK OF MORE THAN 45-FEET. WITH CROSS-HOLE SONIC LOGGING . PERFORM CROSS-HOLE SONIC LOGGING AND THERMAL INTEGRITY ICATIONS OUTLINED IN APPENDIX G OF THE SCOPE OF SERVICES AND D TEST METHODS FOR THERMAL INTEGRITY PROFILING OF CONCRETE	<b>GENERAL</b> BRIDGE NC OVER IR-74 WE
<b>SISTANCE:</b> 5 DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 8.26 AND A MAXIMUM STRENGTH LOAD PRESSURE OF 11.88 KIPS PER FORED BEARING RESISTANCE IS 18 KIPS PER SQUARE FOOT.	RAMP P
O BE CUT NEAT WITHOUT FORMING.	
L STEEL:	
PDER AND BOTTOM FLANGE WILL BE PAINTED IZEU 1058 (DARK GREEN). ANY BOLTED CONNECTIONS ON BE PAINTED ON ALL SIDES OF THE STEEL WITHIN INTERNAL BEAM/GIRDER LINES INCLUDING CROSS FRAMES, D OTHER STEEL WITHIN 10 FEET OF A SUBSTRUCTURE THE PRIME COAT SHALL BE 708.01. THE TOP COAT APPROACH FEDERAL STANDARD NO. 595B-20045 OR 20059 VING STEEL).	M - 75 - 3.84 No. 104667
WILLIAMS DOT HP ACRYLIC URETHANE USED ON UNIT 1 GIRDERS.	H A I PID
	7 / 79
	7

#### ITEM 512 SEALING OF CONCRETE SURFACES. AS PER PLAN. (PERMANENT GRAFFITT PROTECTION):

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE EPOXY URETHANE SEALER SHALL BE FEDERAL COLOR NUMBER 17778.

ALTERNATIVE MASONARY COATING, CHEMMASTER TEXTURRE DOT, WAS APPLIED A EXISTING PIER 7. AND UNIT 1 PARAPET.

#### TEMPORARY SHORING:

ALL TEMPORARY SHORING DESIGN WILL BE PERFORMED IN ACCORDANCE WITH CMS 501 AND SUBMITTED PRIOR TO CONSTRUCTION.

#### ITEM 203, EMBANKMENT, AS PER PLAN:

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT.

### EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

#### EXISTING BRIDGE PLANS:

EXISTING AND REHABILITATION BRIDGE PLANS HAVE BEEN PROVIDED BY ODOT DISTRICT 8.

#### RAILROAD RIGHT-OF-WAY REQUIREMENTS:

ALL CONSTRUCTION WORK ON, OVER, UNDER OR ADJACENT TO THE NORFOLK-SOUTHERN (NS) OR CSX RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE NORFOLK-SOUTHERN "SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS" (NS SPECIAL PROVISIONS) OR CSX PUBLIC PROJECTS MANUAL.

#### RAILROAD EXCAVATION REQUIREMENTS:

THERE SHALL BE NO EXCAVATION ON OR AT THE TOE OF THE NORFOLK SOUTHERN OR CSX TRACK STRUCTURE SLOPES WITHOUT REVIEW AND COMPLIANCE WITH THE NORFOLK SOUTHERN AND CSX "SHORING REQUIREMENTS".

#### MAINTENANCE OF TRAFFIC:

SEE BU-04 AND BU-23 FOR MAINTENANCE OF TRAFFIC PLANS

### UTILITIES:

THE UTILITY(IES) SHALL BORE ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

FOR A LISTING OF UTILITIES IN THE PROJECT AREA, SEE BU-14.

#### STRUCTURE GROUNDING:

STRUCTURE TO BE GROUNDED IN ACCORDANCE WITH STD. DWG. HL-50.21. SEE DETAILS ON SHEET 9/79.

### LIGHTING:

SEE BU-19 FOR REQUIRED LIGHTING WORK.

#### AESTHETIC SURFACE TREATMENT:

THE FRONT FACE OF CIP ABUTMENT AND WINGWALLS SHALL HAVE A "FRACTURED FIN" FINISH WITH A RELIEF OF 11/2" APPLIED TO THE LIMITS SHOWN IN THE PLANS. THE VERTICAL FINS AND VALLEYS IN THE FRACTURED FIN AESTHETIC TREATMENT SHALL ALIGN VERTICALLY FROM THE BOTTOM OF THE WALL TO THE TOP.

THE "FRACTURED FIN" FINISH ON THE ABUTMENT FACE AND WINGWALLS SHALL MATCH AND BE SUPPLIED BY THE SAME FORMLINER MANUFACTURER AS THAT USED ON THE RETAINING WALLS (BU-09).

### CLASS QC3 CONCRETE WITH QC/QA, SUBSTRUCTURE, AS PER PLAN

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE MACRO-SYNTHETIC INTO THE SUBSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

STRUCTURE GENERAL NOTES

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

AT PIER	3, PORTLAND CEMENT CONCRETE	499.03, CLASS QC 3, WITH MACRO-SYNTHETIC FIBERS WITH MODIFICATION PER 511.02
IS EAT	FIBERS FOR CONCRETE	ASTM C 1116, TYPE III

THE CLASS QC3 CONCRETE FOR THE SUBSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA: WATER/CEMENT RATIO = 0.40 MAXIMUM; MINIMUM 4 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.5 IN. MAX.) MEETING ASTM CIIIG TYPE III SHALL BE ADDED TO THE MIX.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT. AGGREGATE. AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES. AND ASPECT RATIO BETWEEN 60 AND 100. AND ARE BETWEEN 1.5 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURE'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST. DIRT AND MOISTURE.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 4.0 LBS/CY OF CONCRETE. DETERMINE THE FINAL PROPOSED DOSAGE RATE THROUGH MIX TESTING. ENSURE THE FIBER REINFORCED CONCRETE MEETS OR EXCEEDS A MINIMUM EQUIVALENT FLEXURAL STRENGTH RATIO OF 25% ACCORDING TO ASTM C 1609. MACRO-SYNTHETIC FIBERS IS TO BE USED AS AN ADMIXTURE TO CONTROL CRACKING AND IS NOT TO BE USED TO SUPPLEMENT OR REPLACE REINFORCING STEEL IN THE DESIGN. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. UTILIZE A LABORATORY REGULARLY INSPECTED BY THE CEMENT AND CONCRETE REFERENCE LABORATORY (CCRL) OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, OR OTHER APPROVED REFERENCE LABORATORY, TO PERFORM THE TESTING. BEFORE USE, SUBMIT DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED THE REQUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, WILL BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CONCRETE SUPPLIER'S CHOICE OF ADMIXTURES DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS.

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE MACRO-SYNTHETIC INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

FIBERS FOR CONCRETE

THE CLASS QC3 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA: WATER/CEMENT RATIO = 0.40 MAXIMUM; MINIMUM 4 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.5 IN. MAX.) MEETING ASTM CIIIG TYPE III SHALL BE ADDED TO THE MIX.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT. AGGREGATE. AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.5 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURE'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST. DIRT AND MOISTURE.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 4.0 LBS/CY OF CONCRETE. DETERMINE THE FINAL PROPOSED DOSAGE RATE THROUGH MIX TESTING. ENSURE THE FIBER REINFORCED CONCRETE MEETS OR EXCEEDS A MINIMUM EQUIVALENT FLEXURAL STRENGTH RATIO OF 25% ACCORDING TO ASTM C 1609. MACRO-SYNTHETIC FIBERS IS TO BE USED AS AN ADMIXTURE TO CONTROL CRACKING AND IS NOT TO BE USED TO SUPPLEMENT OR REPLACE REINFORCING STEEL IN THE DESIGN. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. UTILIZE A LABORATORY REGULARLY INSPECTED BY THE CEMENT AND CONCRETE REFERENCE LABORATORY (CCRL) OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, OR OTHER APPROVED REFERENCE LABORATORY, TO PERFORM THE TESTING. BEFORE USE, SUBMIT DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED THE REQUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX. WILL BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CONCRETE SUPPLIER'S CHOICE OF ADMIXTURES DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS.

APPROACH SLABS, DIAPHRAGMS, AND BRIDGE RAILING CONCRETE ARE TO USE THE SAME MIX DESIGN AS THE BRIDGE DECK (WHEN APPLICABLE). USE SELF-COMPACTING CONCRETE ON DECORATIVE RAILING SIMILAR TO TEXAS RAILING AND MACRO-SYNTHETIC CONCRETE PER THIS SPECIFICATION ON TRADITIONAL CONCRETE RAILING.

NOT PERMITTED.

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

### CLASS QC3 CONCRETE WITH QC/QA, SUPERSTRUCTURE. AS PER PLAN

499.03, CLASS QC3, WITH MACRO-SYNTHETIC PORTLAND CEMENT CONCRETE FIBERS WITH MODIFICATION PER 511.02

ASTM C 1116, TYPE III

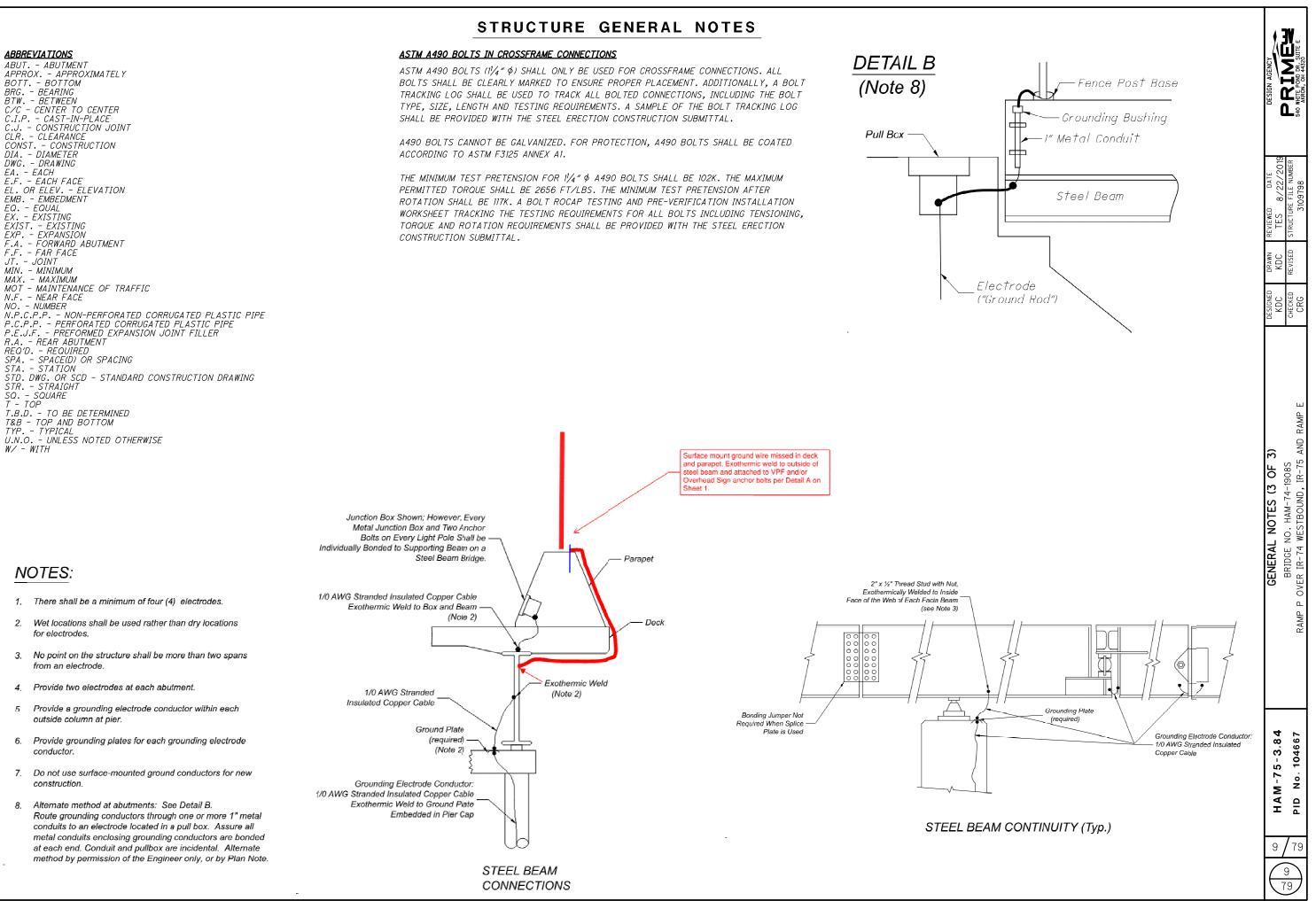
THE PLACING OF THE DECK AND THE APPROACH SLABS IN THE SAME CONCRETE POUR IS



TYPE, SIZE, LENGTH AND TESTING REQUIREMENTS. A SAMPLE OF THE BOLT TRACKING LOG SHALL BE PROVIDED WITH THE STEEL ERECTION CONSTRUCTION SUBMITTAL.

Pull Box

ACCORDING TO ASTM F3125 ANNEX A1.



# NOTES:

**ABBREVIATIONS** 

BRG. - BEARING BTW. - BETWEEN

DWG. - DRAWING EA. - EACH

- EXISTING EXIST. - EXISTING EXP. - EXPANSION

MAX. - MAXIMUM

NO. - NUMBER

TOP

EX.

MOT N.F.

ABUT. - ABUTMENT APPROX. - APPROXIMATELY BOTT. - BOTTOM

C/C - CENTER TO CENTER C.I.P. - CAST-IN-PLACE C.J. - CONSTRUCTION JOINT CLR. - CLEARANCE

CONST. - CONSTRUCTION DIA. - DIAMETER

EA. - EACH E.F. - EACH FACE EL. OR ELEV. - ELEVATION EMB. - EMBEDMENT EQ. - EQUAL

F.A. - FORWARD ABUTMENT F.F. - FAR FACE JOINT JT. - JOINT MIN. - MINIMUM

- NEAR FACE

R.A. - REAR ABUTMENT REQ'D. - REQUIRED

SPA. - SPACE(D) OR SPACING

T.B.D. - TO BE DETERMINED T&B - TOP AND BOTTOM TYP. - TYPICAL

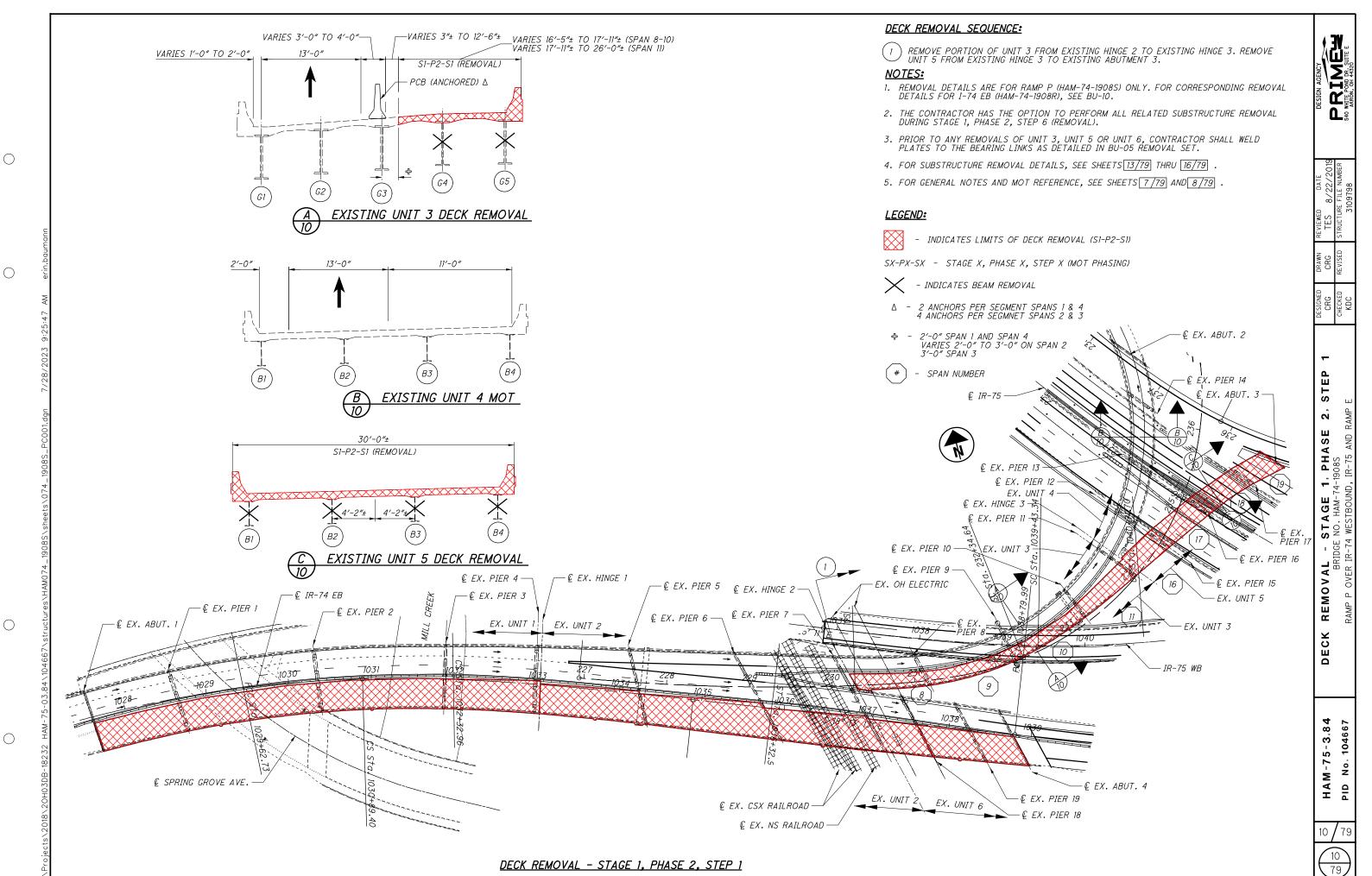
U.N.O. - UNLESS NOTED OTHERWISE W/ - WITH

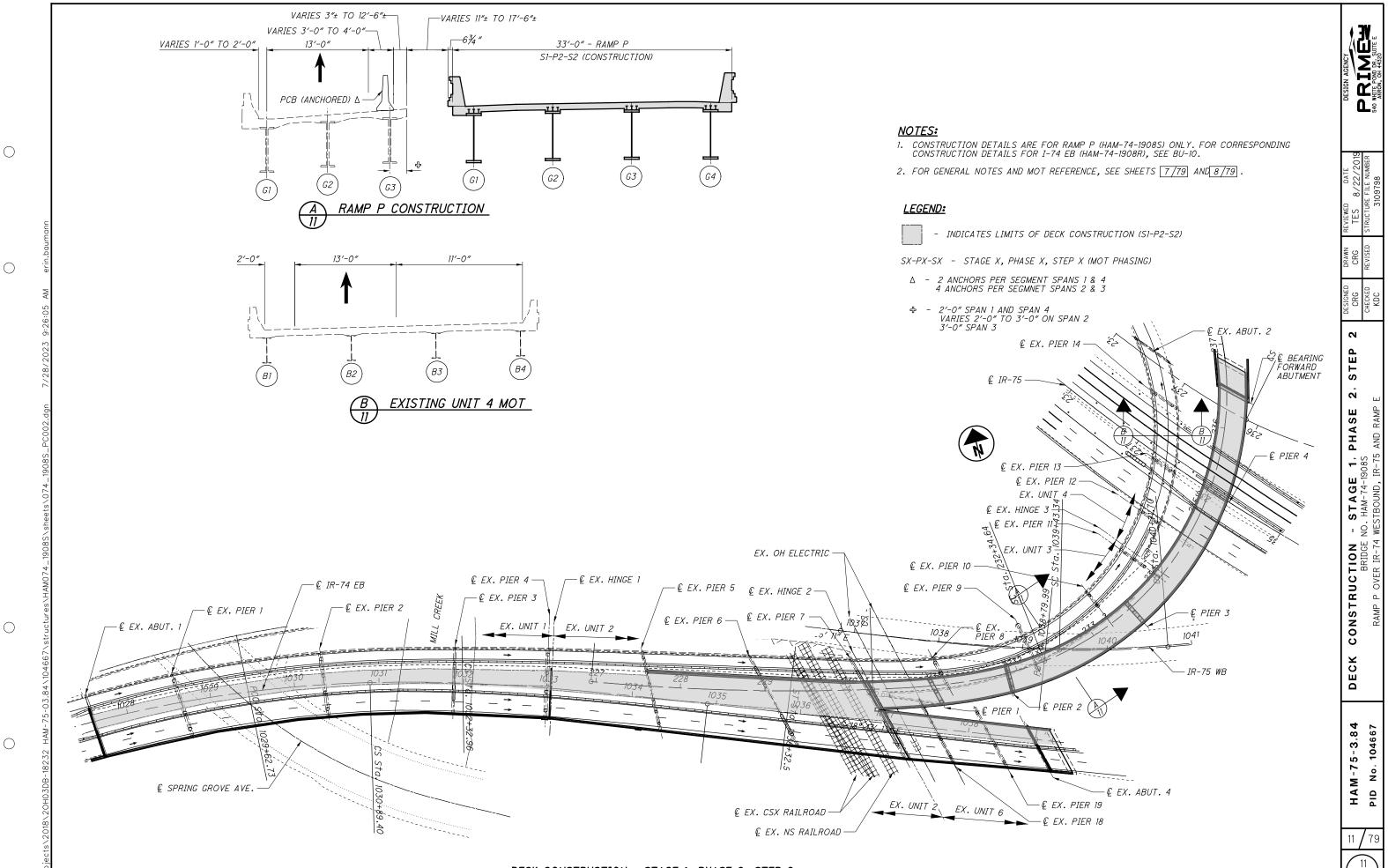
- MAINTENANCE OF TRAFFIC

- 1. There shall be a minimum of four (4) electrodes.
- 2. Wet locations shall be used rather than dry locations for electrodes
- 3. No point on the structure shall be more than two spans from an electrode.
- 4. Provide two electrodes at each abutment.
- 5 Provide a grounding electrode conductor within each outside column at pier.
- 6. Provide grounding plates for each grounding electrode conductor.
- 7. Do not use surface-mounted ground conductors for new construction
- 8. Alternate method at abutments: See Detail B. Route grounding conductors through one or more 1" metal conduits to an electrode located in a pull box. Assure all metal conduits enclosing grounding conductors are bonded at each end. Conduit and pullbox are incidental. Alternate method by permission of the Engineer only, or by Plan Note.

 $\bigcirc$ 

 $\bigcirc$ 

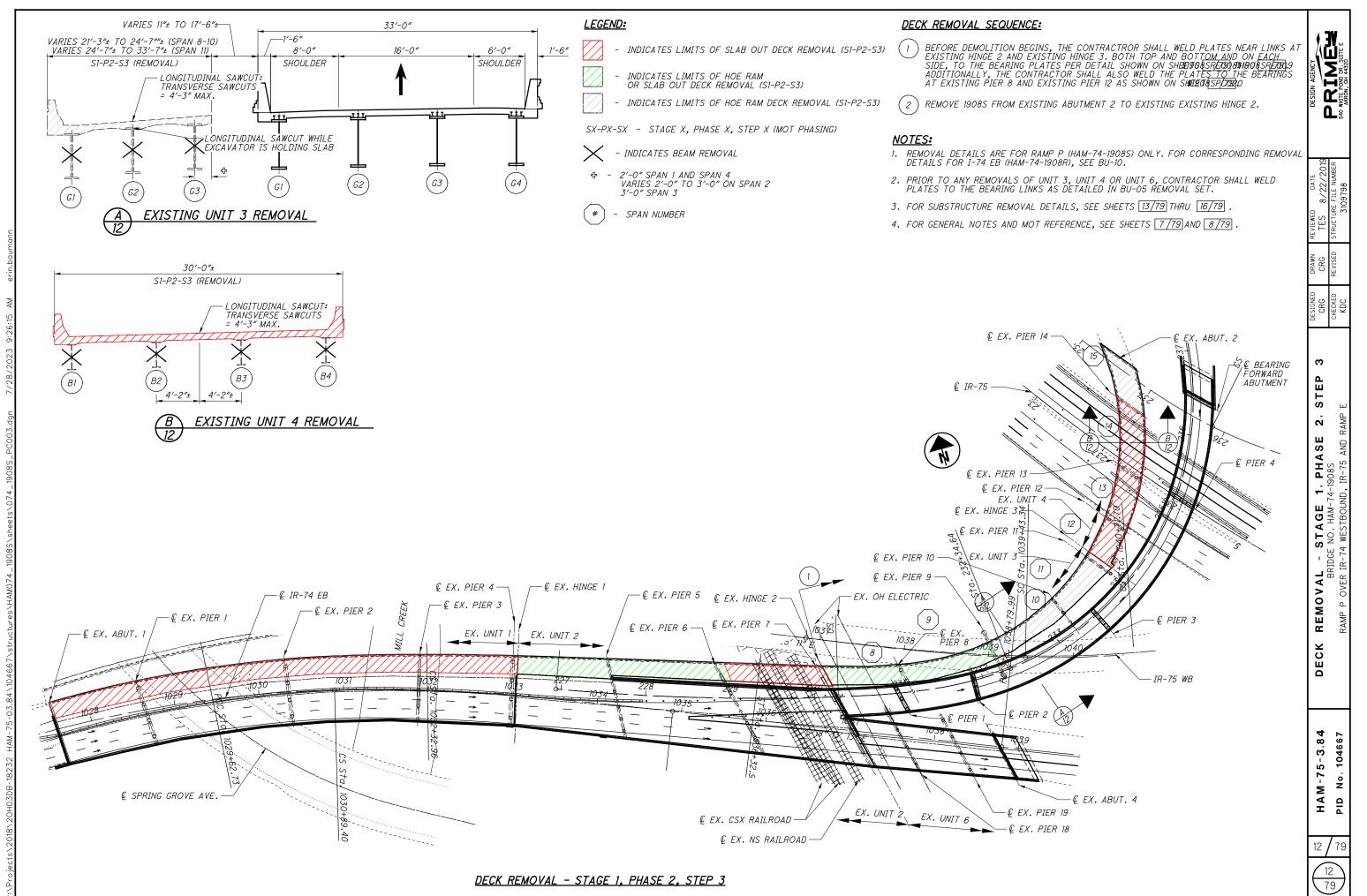




DECK CONSTRUCTION - STAGE 1. PHASE 2. STEP 2

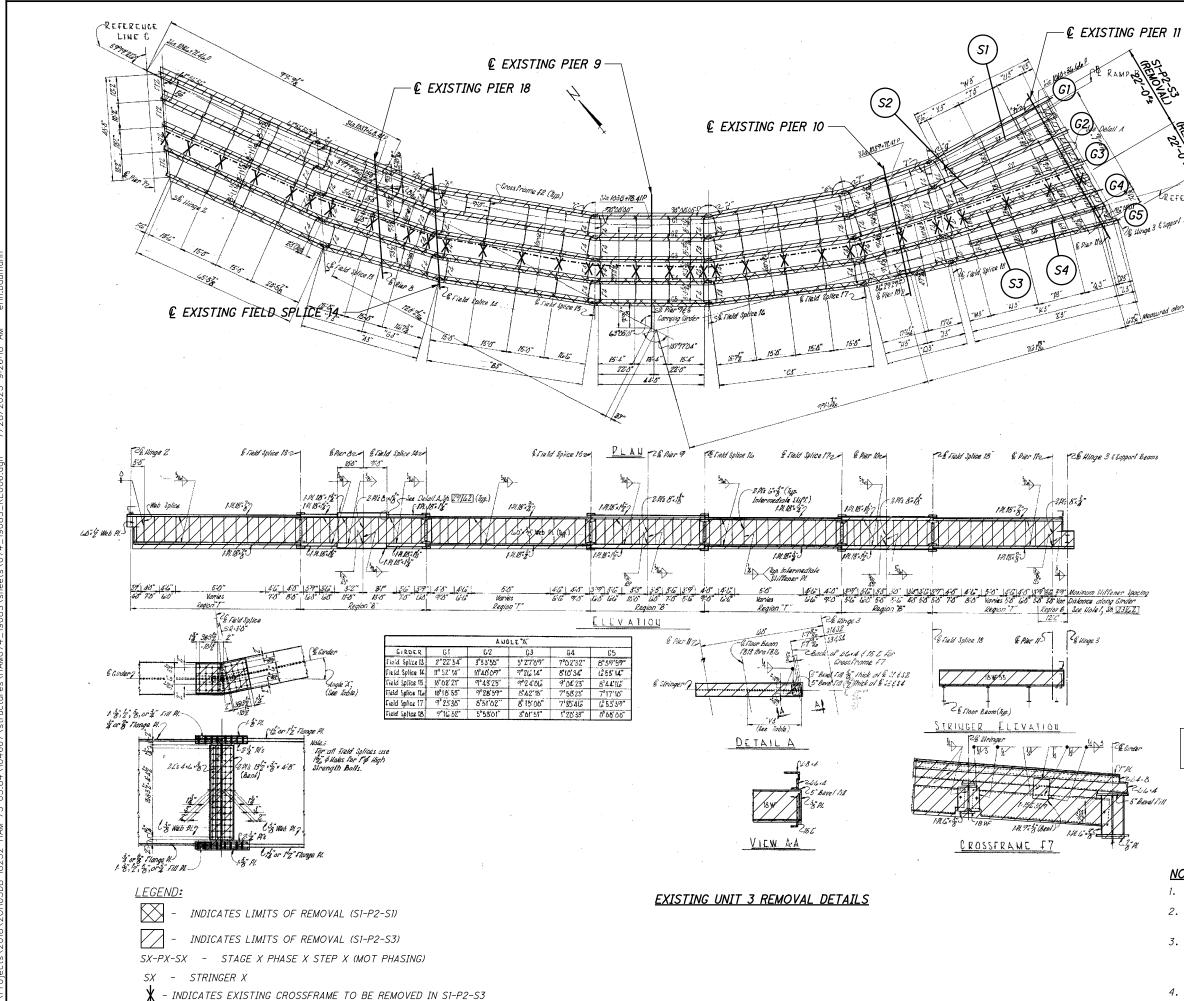
79

 $\bigcirc$ 



 $\bigcirc$ 

 $\bigcirc$ 



 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

REFERENCE LINE D E support Beams 475 Measured along Reference Line

G	IRDER	Dime	NSIONS	¢ A NG	LES
$\times$	61	GΖ	63	64	65
Å3	48:93	48 258	47:75	47 15	41°73°
B3	64.04	63.510	62 7516	62116	61:15
63	53:47	55 Z 8	56 11310	58:758	60.7 Z
D3	35-371	35-2 <sup>5</sup> 16	35-138	35-0116	35-04
£3	5Z-48	55 5 8	58 11 2	62716	lolo 44
F3	24-4516	24 PH	23-10	23 636	23:378
G3	2448	24:1916	23-71516	25-636	2338
H3	17:13	17-18	17:0116	17:0 <sup>5</sup> 16	17:018
J3	18-11310	18:1316	18:0116	18:038	18:018
K3	A64 8	47:57 1L	52'10'2"	51654	60-1716
£3	Li D'	قلادي مج	61"	مال <sup>13</sup> ا م	ماداليها
Må	4 4 8	5:6"16	697	8-034"	7"4'A"
NS	17-0"	17:4746	17'184"	18:478	19:0
P3	165	16734"	17:43L	18:218	17:0
Q3	11:0	11-1013	12:10/2	13-10%	14-103
R3	4-0	4-0316	4:0116	4:13 16	4-11316
a	64 17'50"	65° 50' 51''	67"24'05"	68'57'28	70 36 55
ъ	76 12'04"	76°31'08"	76 50 197"	77° 50' 02"	77 30 09
c	79° 57'39"	80 16 35	80°35'54"	80°55'37"	810 15'44"
d	79°41'07"	80°31'01"	81° 17'45"	82°01'37"	82°42'56
e	88°01'27'	87°11'33"	862447	85°48 57"	84 5744"
£	8Z*35'08"			86 43'17"	88 06 37
.g	73° 18' 11"	78°04'24	82° 18 20		880637
h	87°75'17"	84 37 67"	80 25 11"	77°28 47°	74 36 54

	STRING	ier Di	MENSIO	NS
$\ge$	\$1	\$2	\$3	\$4
X3	17-2"	17:73	18:12	18:8 <sup>3</sup> 8
13	ملا الخ خا	17:08	17:738	18-7"
U.3	11:54	12 4 TL	13-4 5	14:4%
٧ŝ	2:53g	2:5%	2:15	2 6 <sup>3</sup> 8
W 3	48 10 <sup>5</sup> 1	50-11716	55-38	55-778

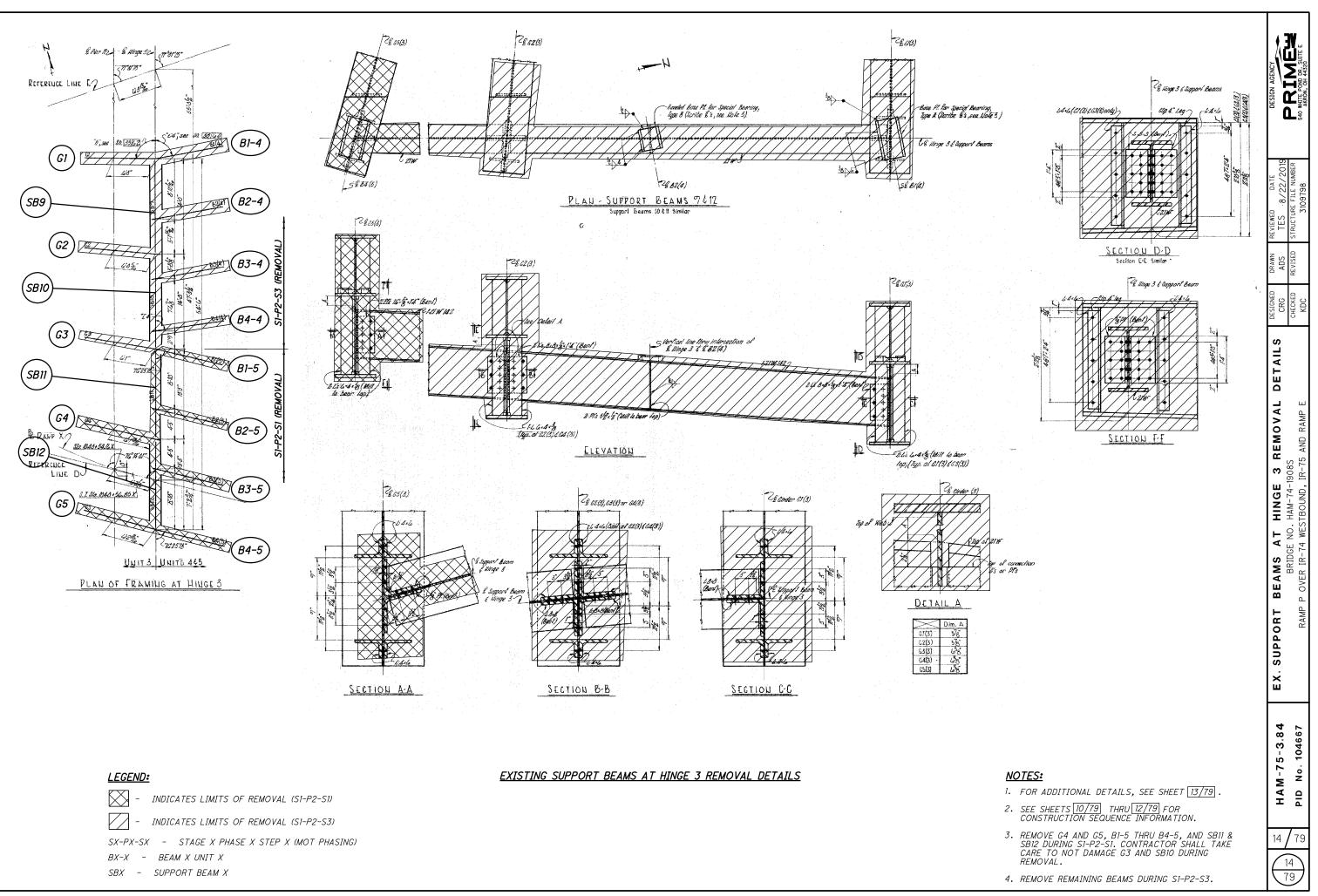
GIRDER REMOVAL PROCEDURES FOR STAGE 1, PHASE 2, STEP 3 WILL BE SUBMITTED SEPARATELY.

# NOTES:

- 1. FOR ADDITIONAL DETAILS, SEE SHEET 14/79
- 2. SEE SHEETS 10/79 THRU 12/79 FOR CONSTRUCTION SEQUENCE INFORMATION.
- 3. REMOVE G4 & G5 AND S3 & S4 DURING SI-P2-SI AND THE CROSSFAMES CONNECTING THEM TO G3. TAKE CARE NOT TO DAMAGE G3 DURING THE REMOVAL PROCESS.
- 4. REMOVE G1-G3 AND S1-S2 DURING S1-P2-S2.

DESIGN AGENCY			540 WHITE POND DR. SUITE E AKRON, OH 44320
DRAWN REVIEWED DATE	TES 8/22/2019	STRUCTURE FILE NUMBER	3109798
DRAWN	ADS	REVISED	
DESIGNED	CRG	CHECKED	KDC
EVISTING EDAMING DI AN IINIT 3 DEMOVAL DETAILS		BKIDGE NO. HAM-14-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
	HAM-/5-3.84		PID N0°104667
1.	3/	/ 7	'9
4	1	3	7

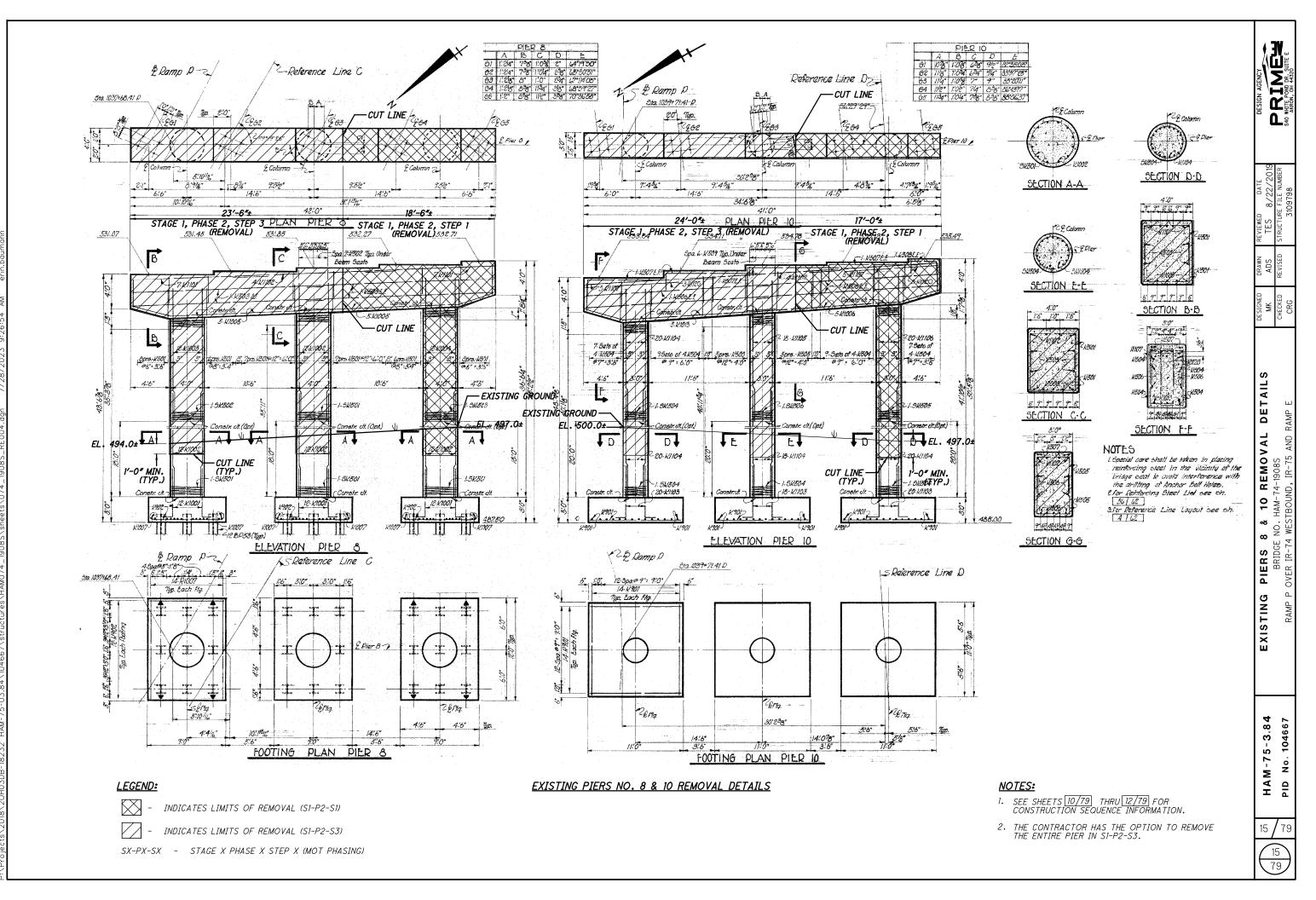
79/





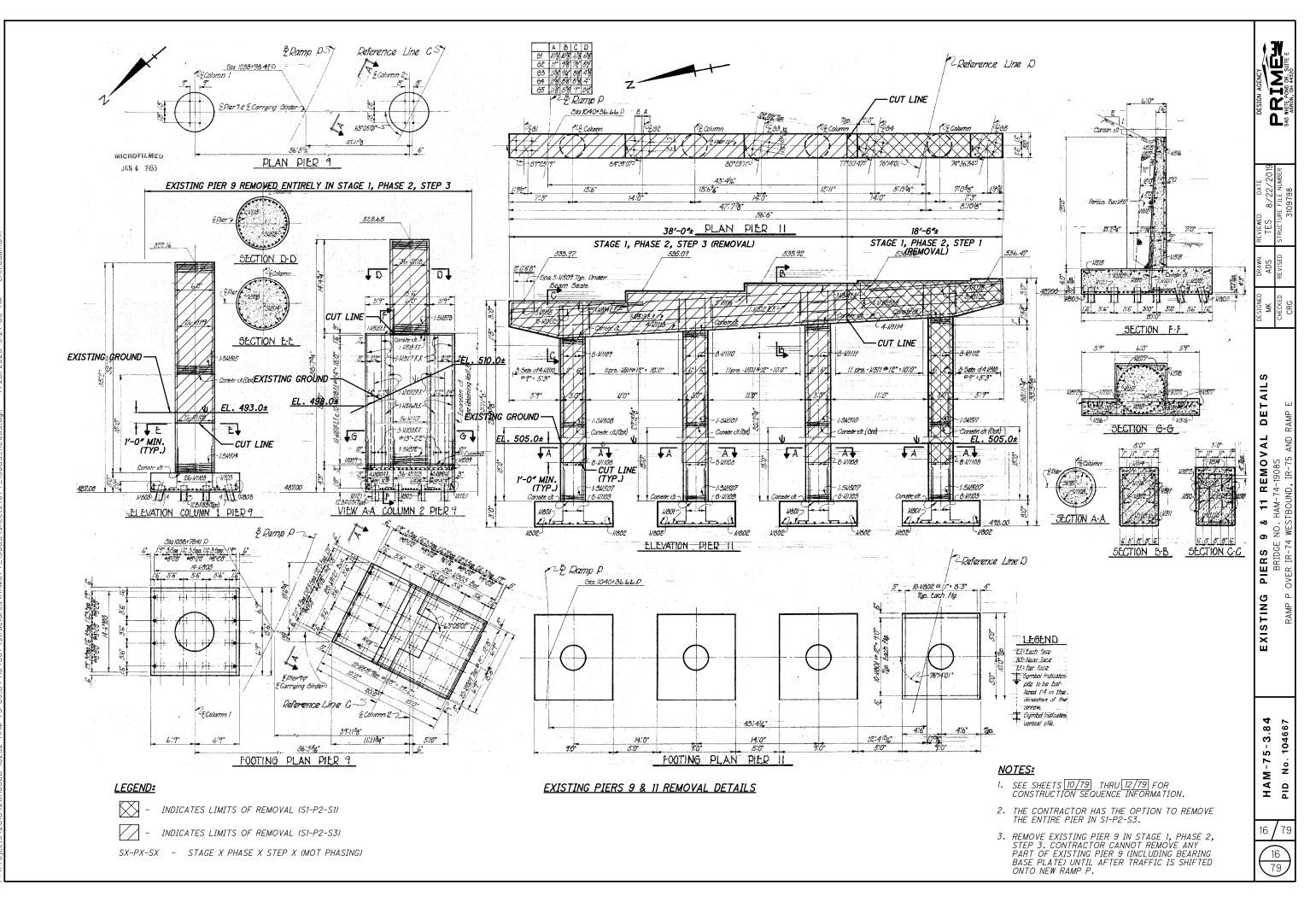
 $\bigcirc$ 

 $\bigcirc$ 



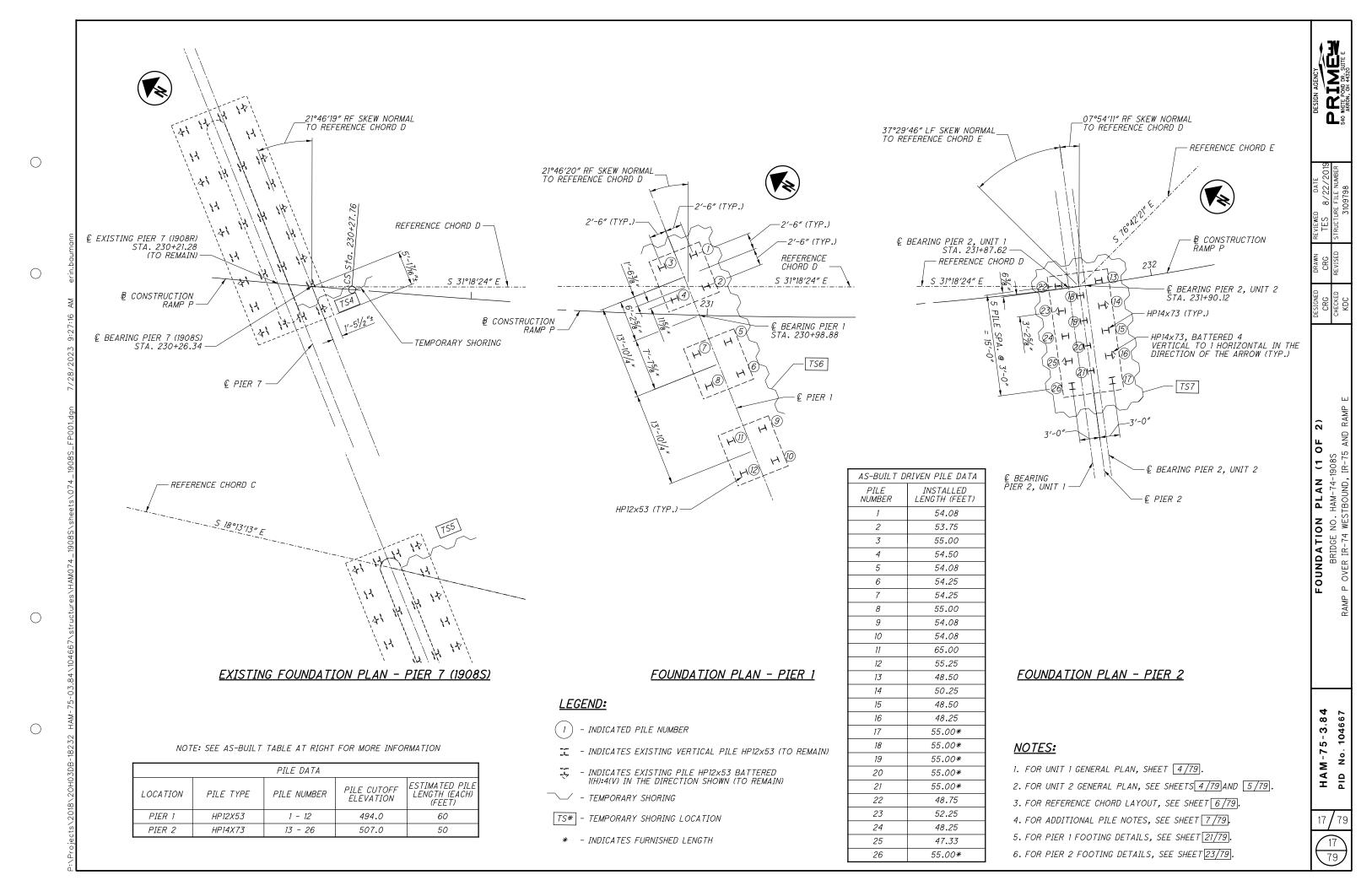
 $\bigcirc$ 

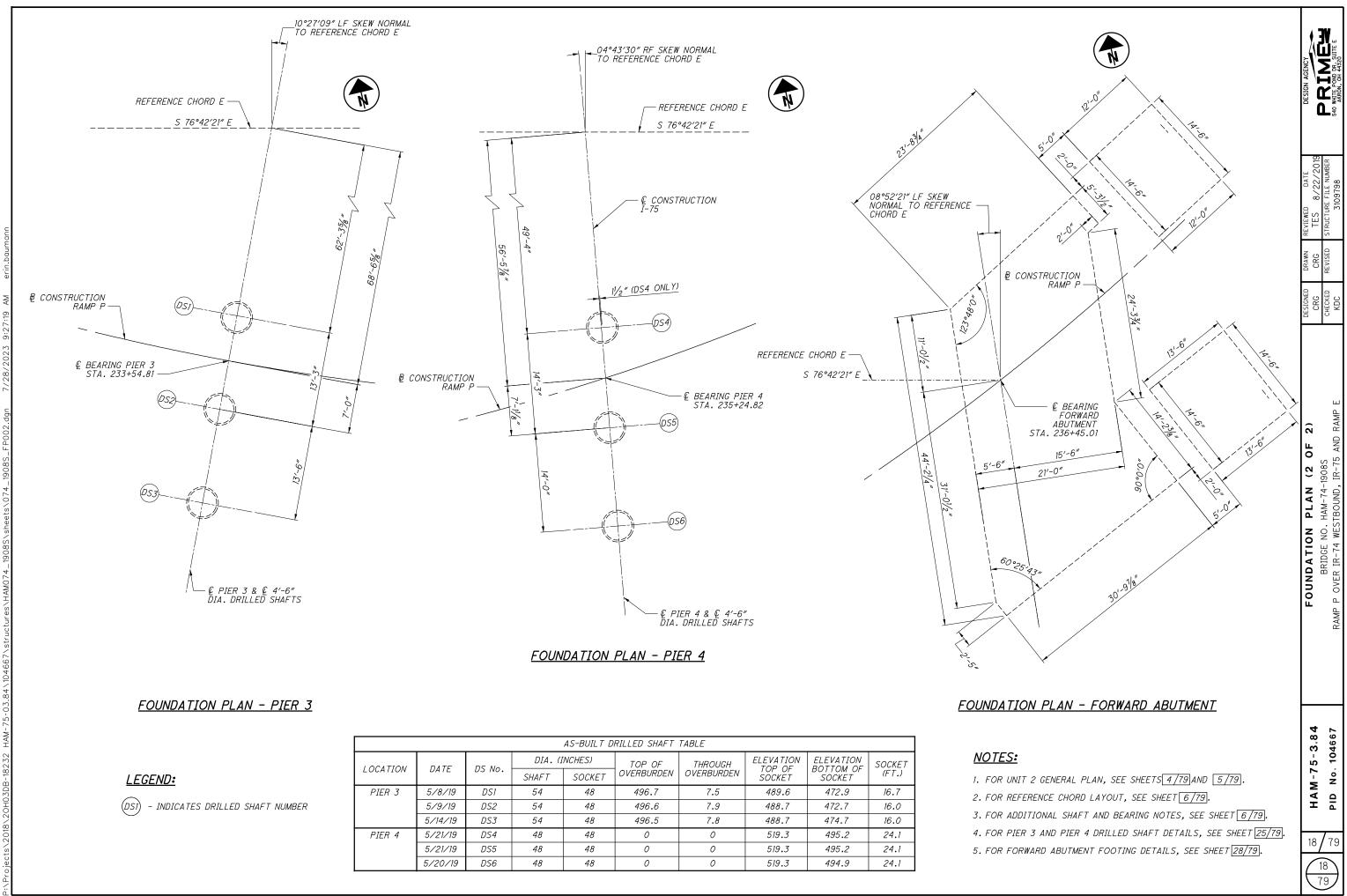
0



 $\bigcirc$ 

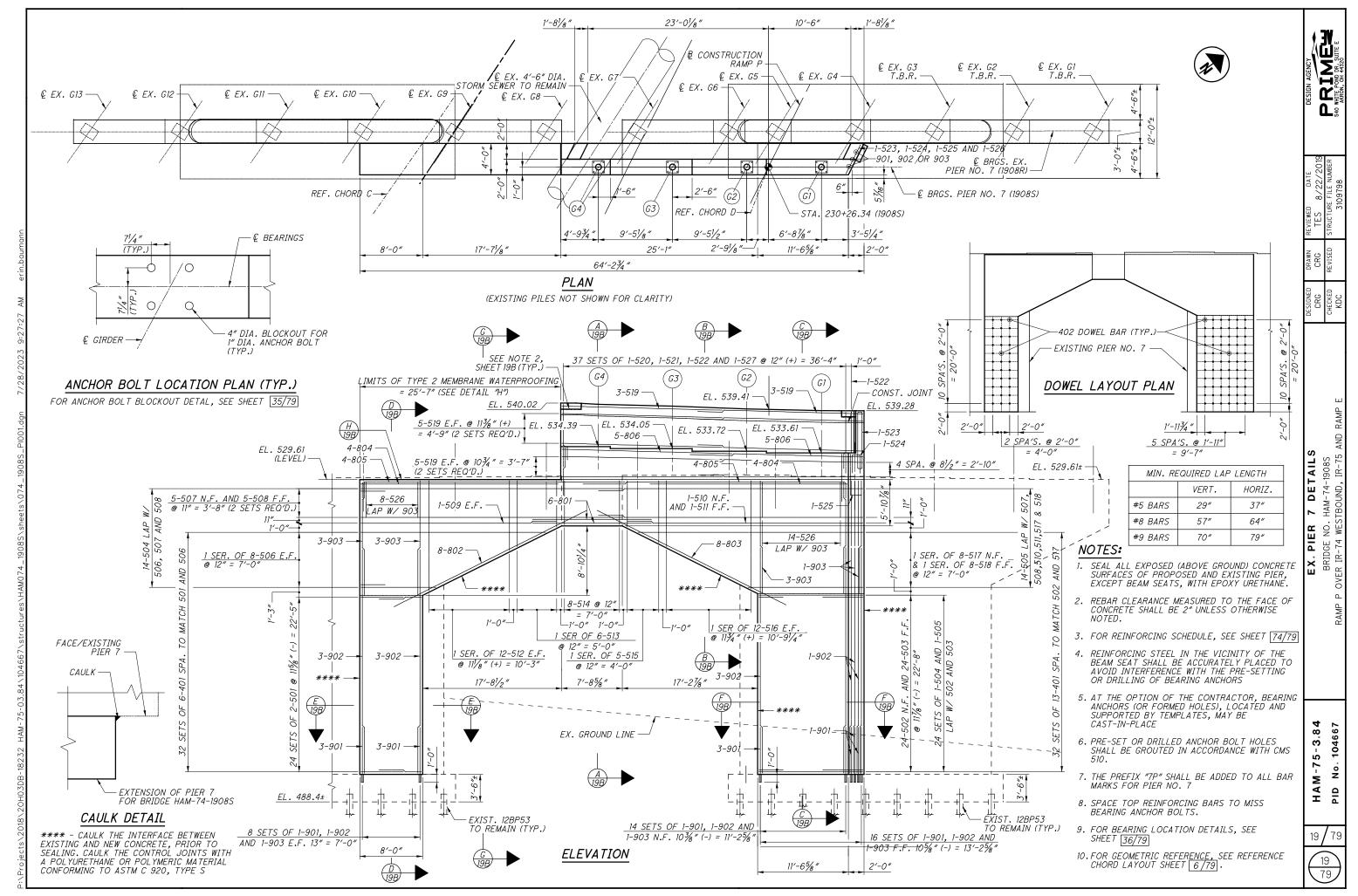
 $\bigcirc$ 





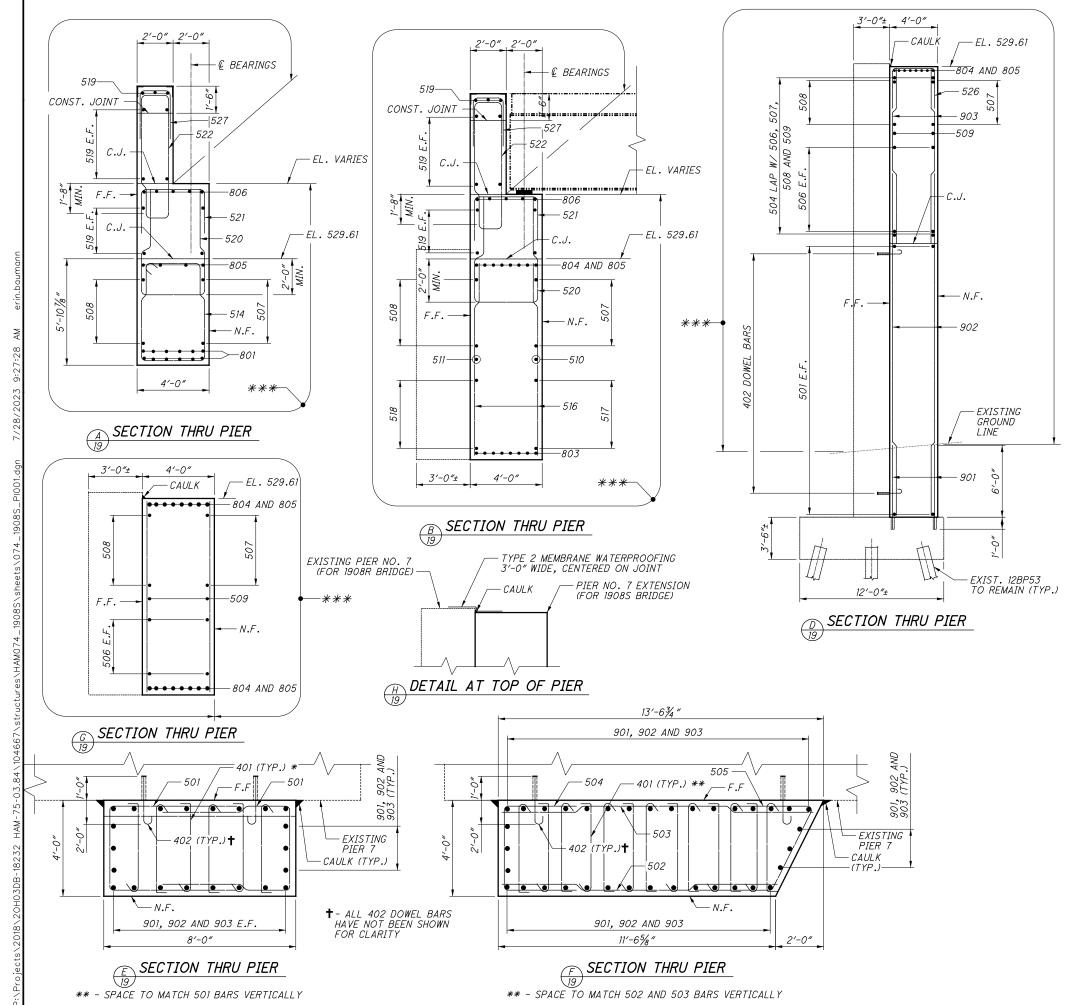
				AS-BUILT D	RILLED SHAFT	TABLE			
			DIA. (i	INCHES)	TOP OF	THROUGH	ELEVATION	ELEVATION	SOCKET
LOCATION	DATE	DS No.	SHAFT	SOCKET	OVERBURDEN	OVERBURDEN	TOP OF SOCKET	BOTTOM OF SOCKET	(FT.)
PIER 3	5/8/19	DS1	54	48	496.7	7.5	489.6	472.9	16.7
	5/9/19	DS2	54	48	496.6	7.9	488.7	472.7	16.0
	5/14/19	DS3	54	48	496.5	7.8	488.7	474.7	16.0
PIER 4	5/21/19	DS4	48	48	0	0	519.3	495.2	24.1
	5/21/19	DS5	48	48	0	0	519.3	495.2	24.1
	5/20/19	DS6	48	48	0	0	519.3	494.9	24.1

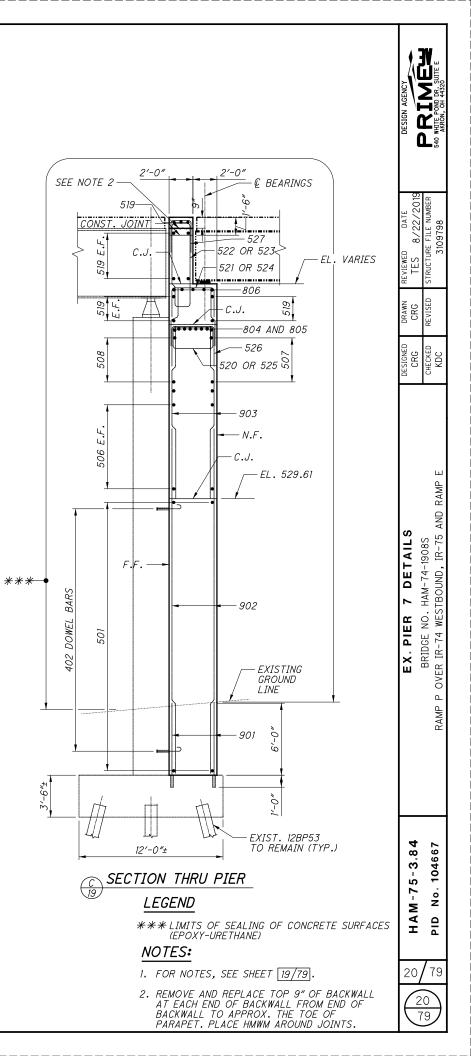
 $\bigcirc$ 

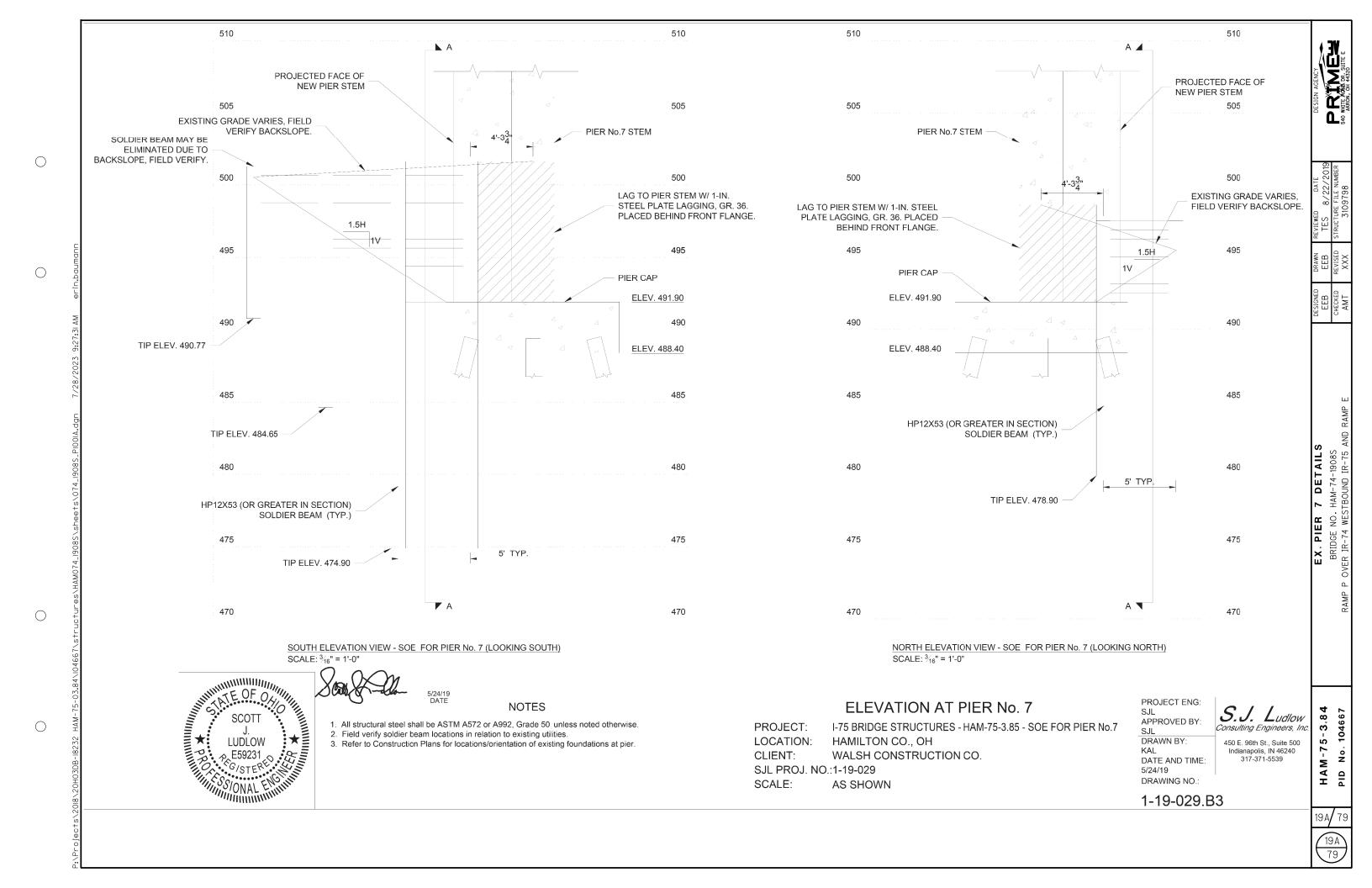


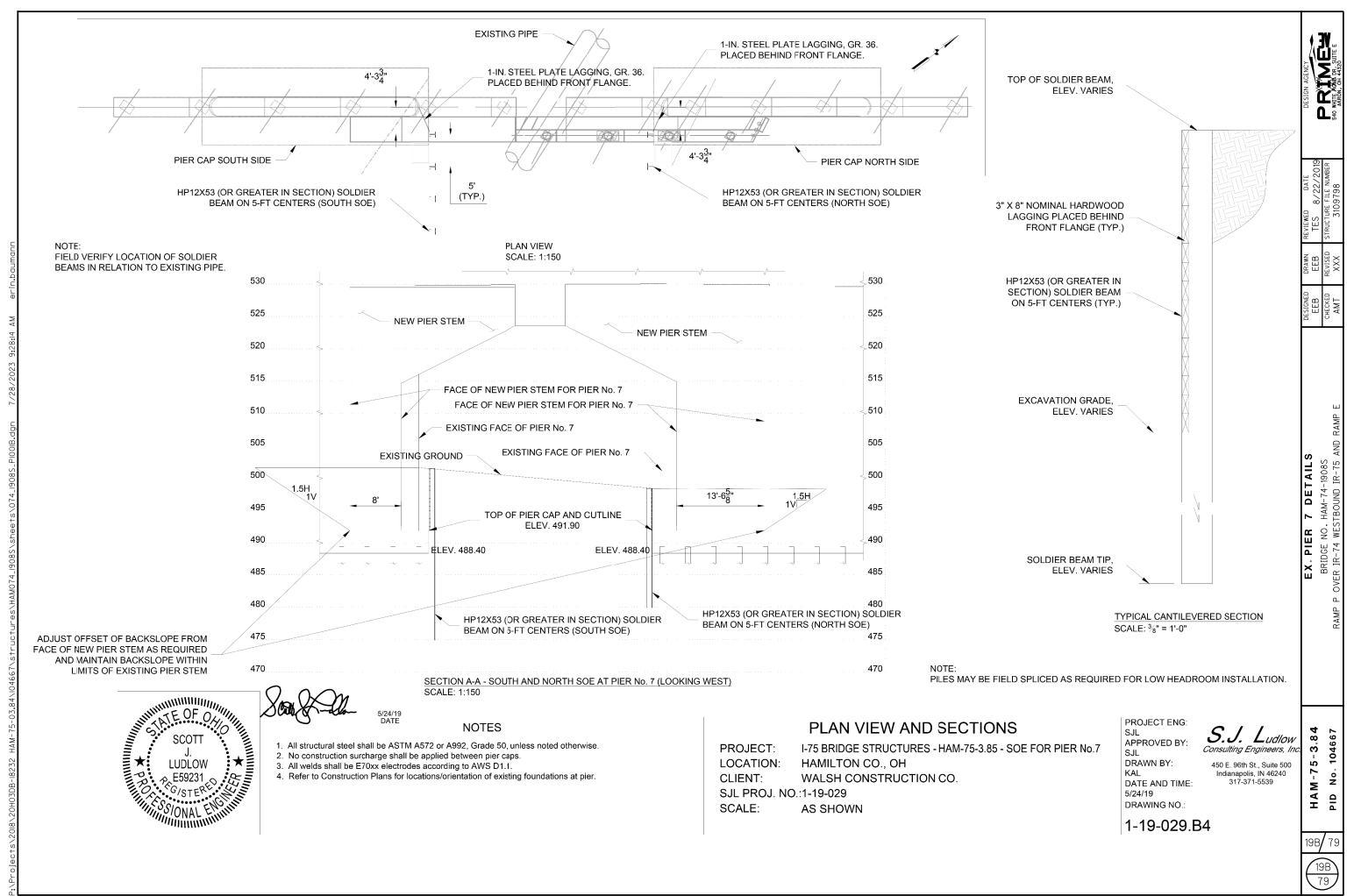
 $\bigcirc$ 

 $\bigcirc$ 





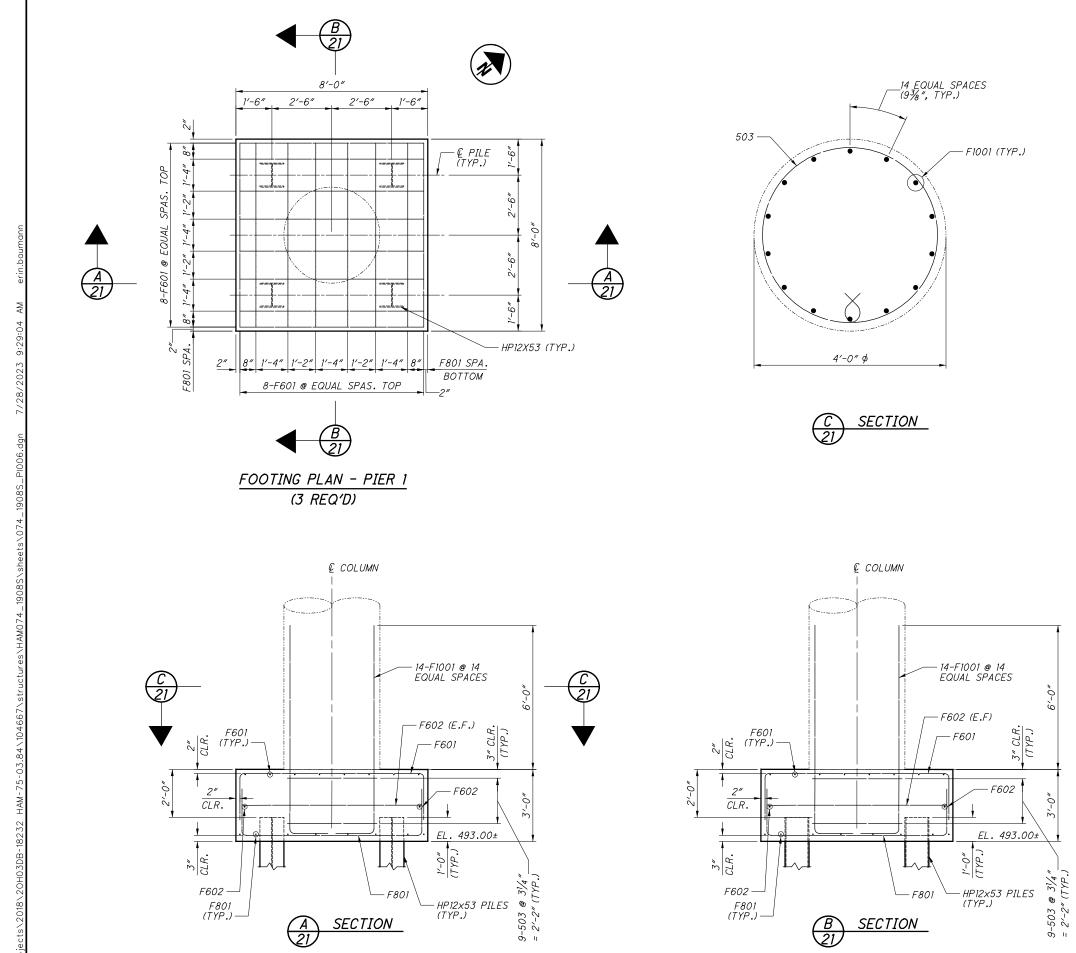




 $\bigcirc$ 

 $\bigcirc$ 

0



 $\bigcirc$ 

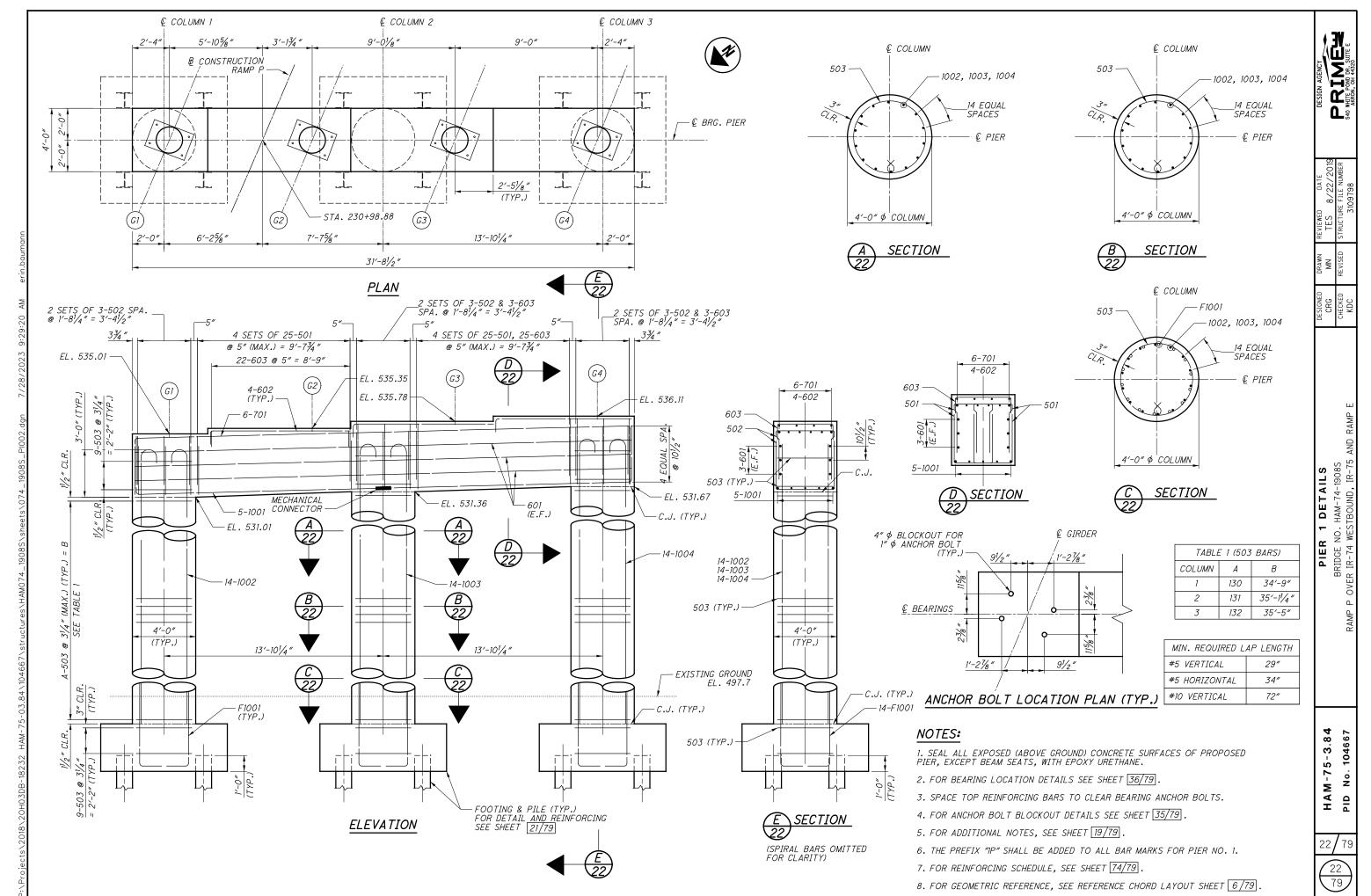
 $\bigcirc$ 

 $\bigcirc$ 

	DIER 1 FOOTING DETAILS	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
M-75-3.84		KDC	NΜ	TES 8/22/2019	
	BRIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320

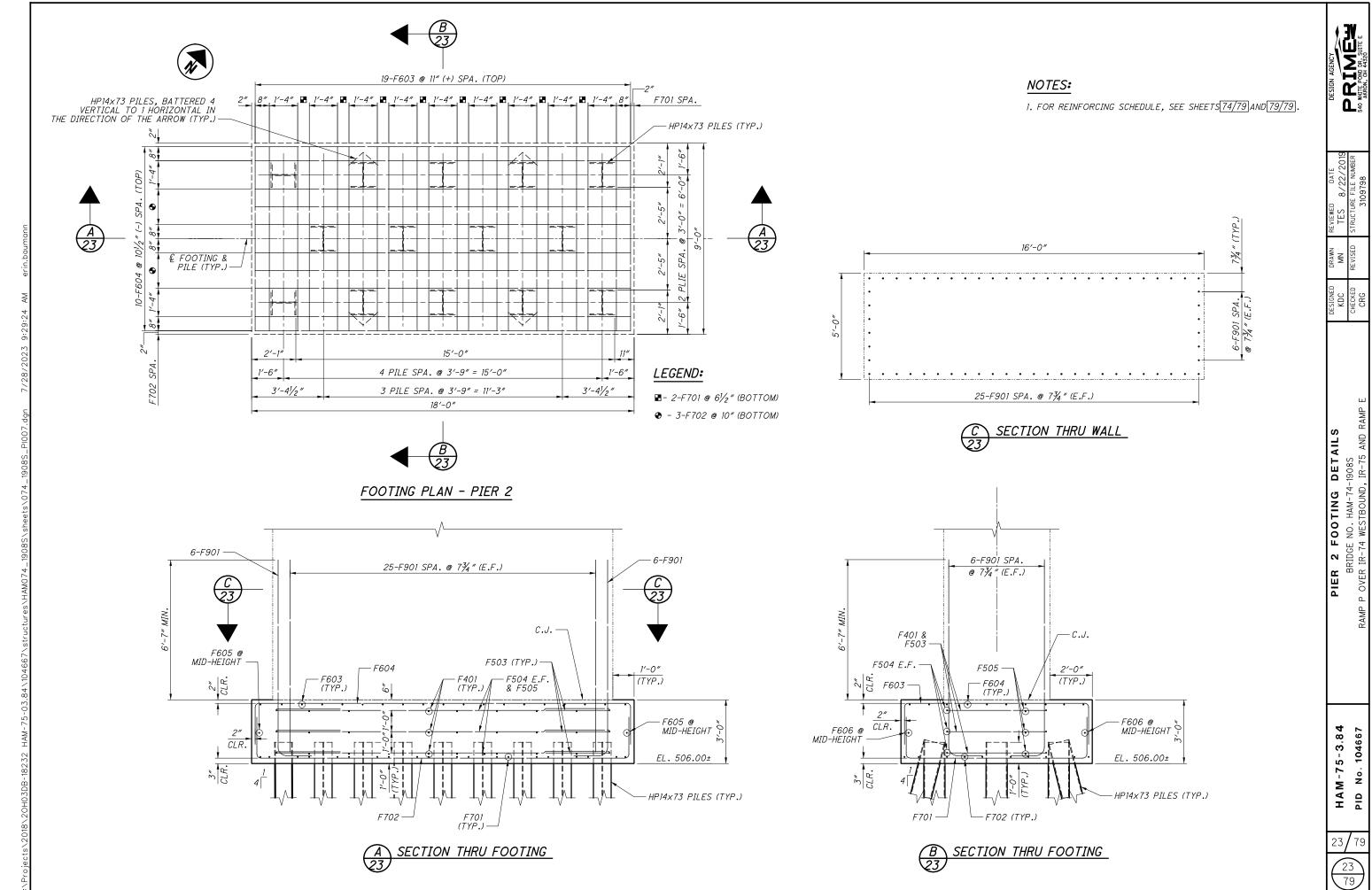
# NOTES:

1. FOR REINFOCING SCHEDULE, SEE SHEETS 74/79 AND 79/79.



 $\bigcirc$ 

 $\bigcirc$ 



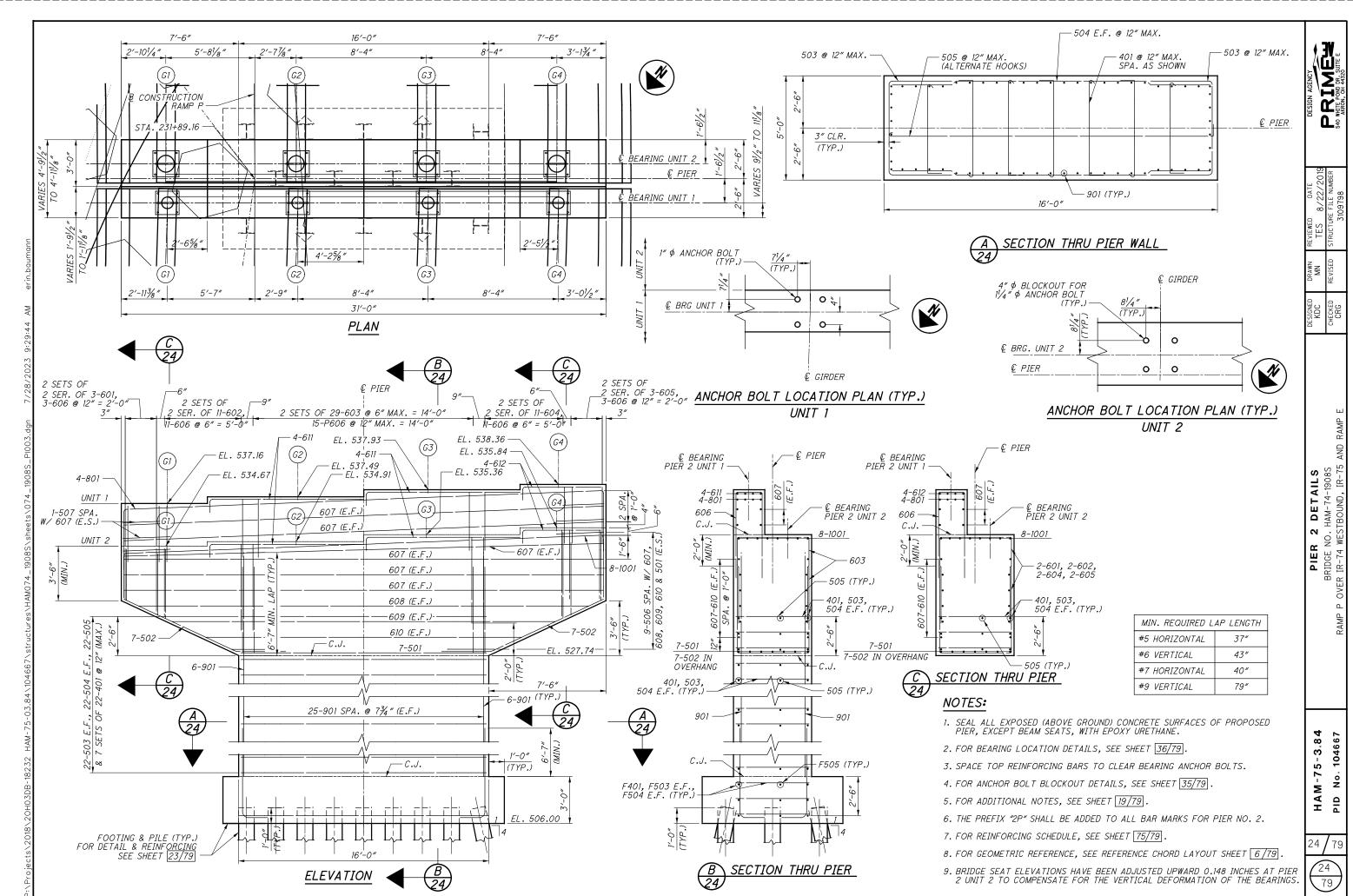
 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

\_\_\_\_\_

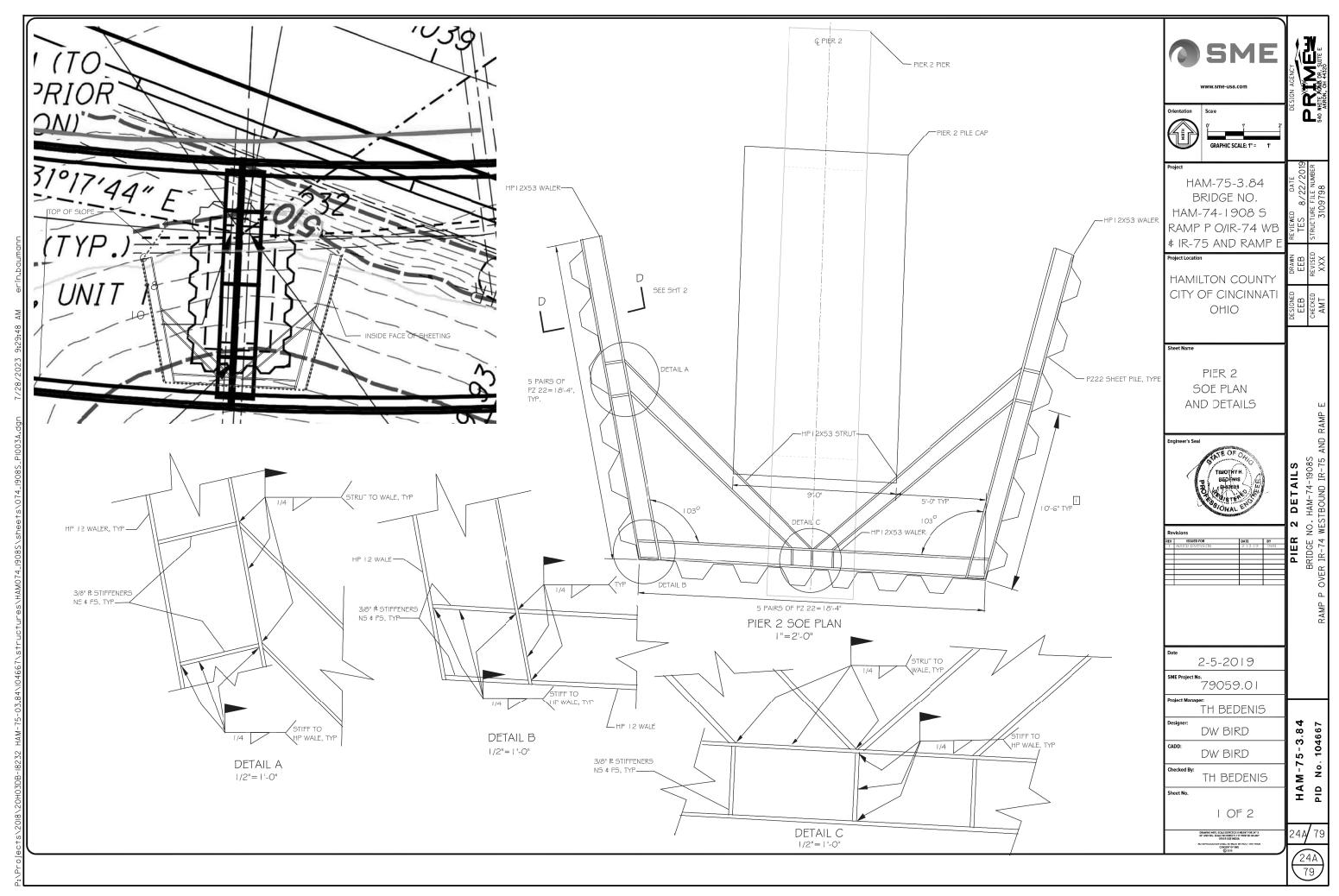
23 79



 $\bigcirc$ 

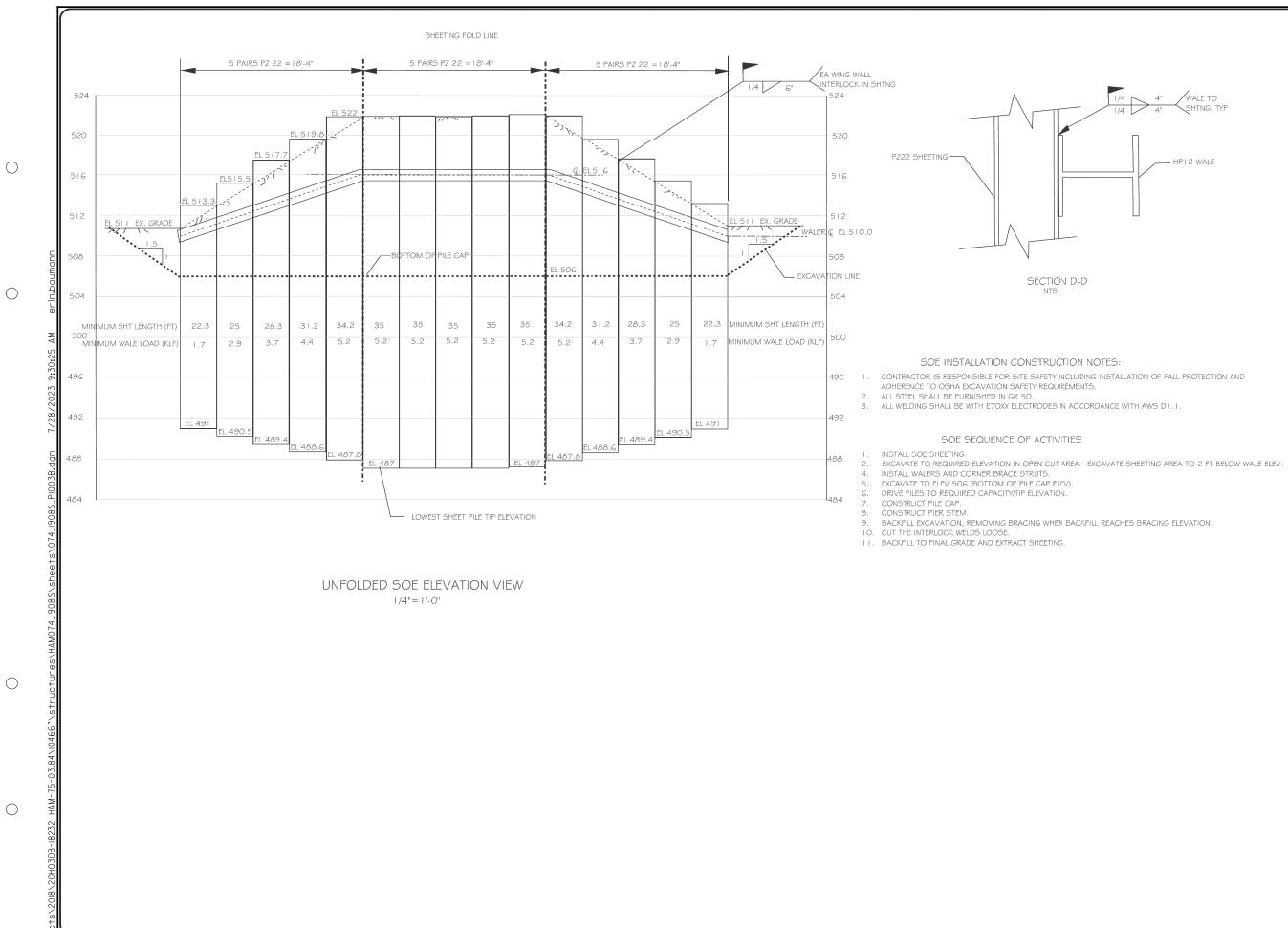
 $\bigcirc$ 

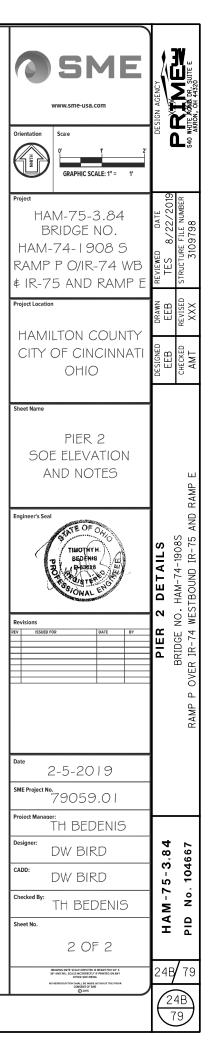
HAM-75-3.84	PID No. 104667
24 /	79
$\begin{pmatrix} 2^2 \\ 7 \end{pmatrix}$	1 9

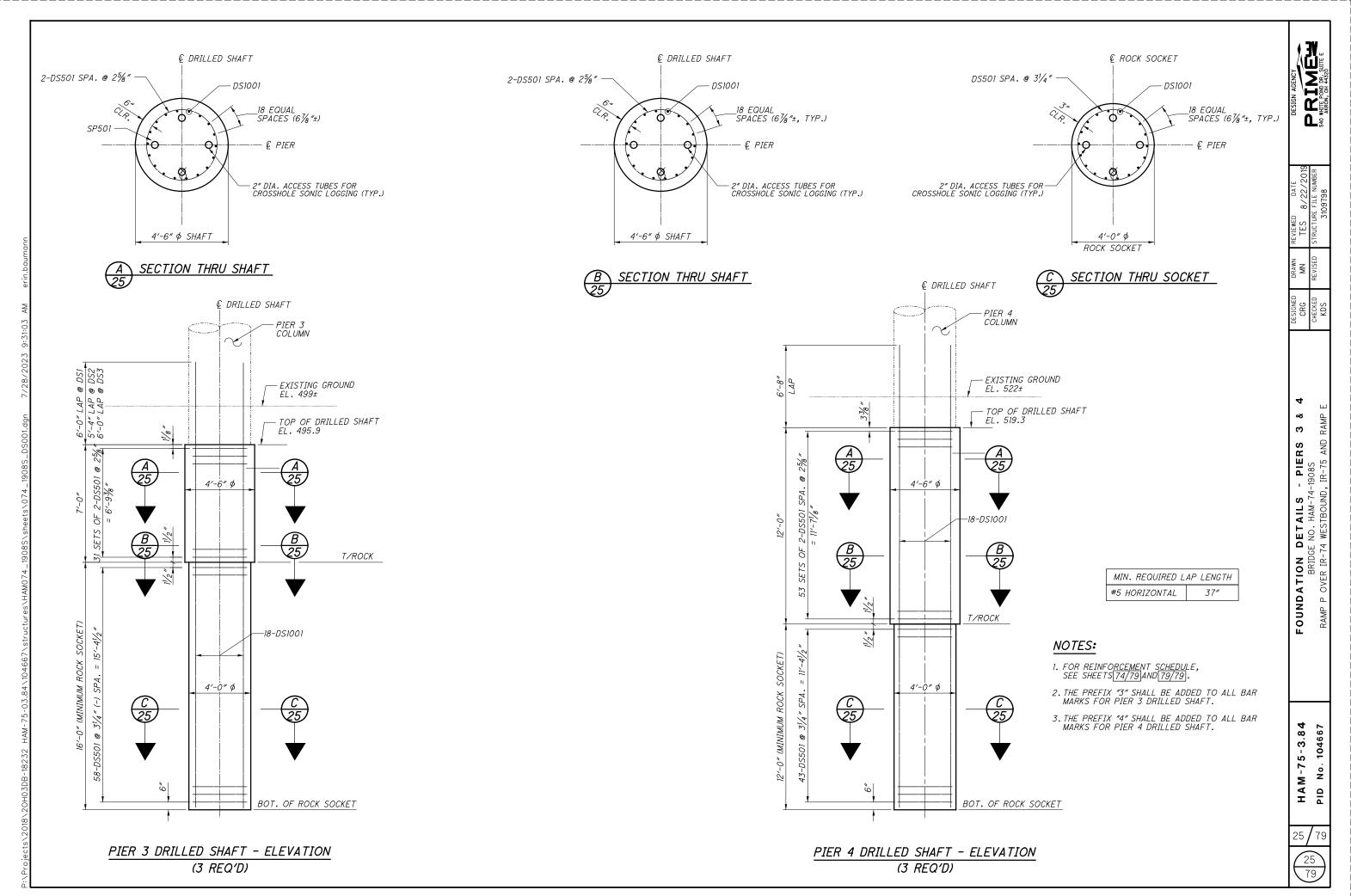


 $\bigcirc$ 

0





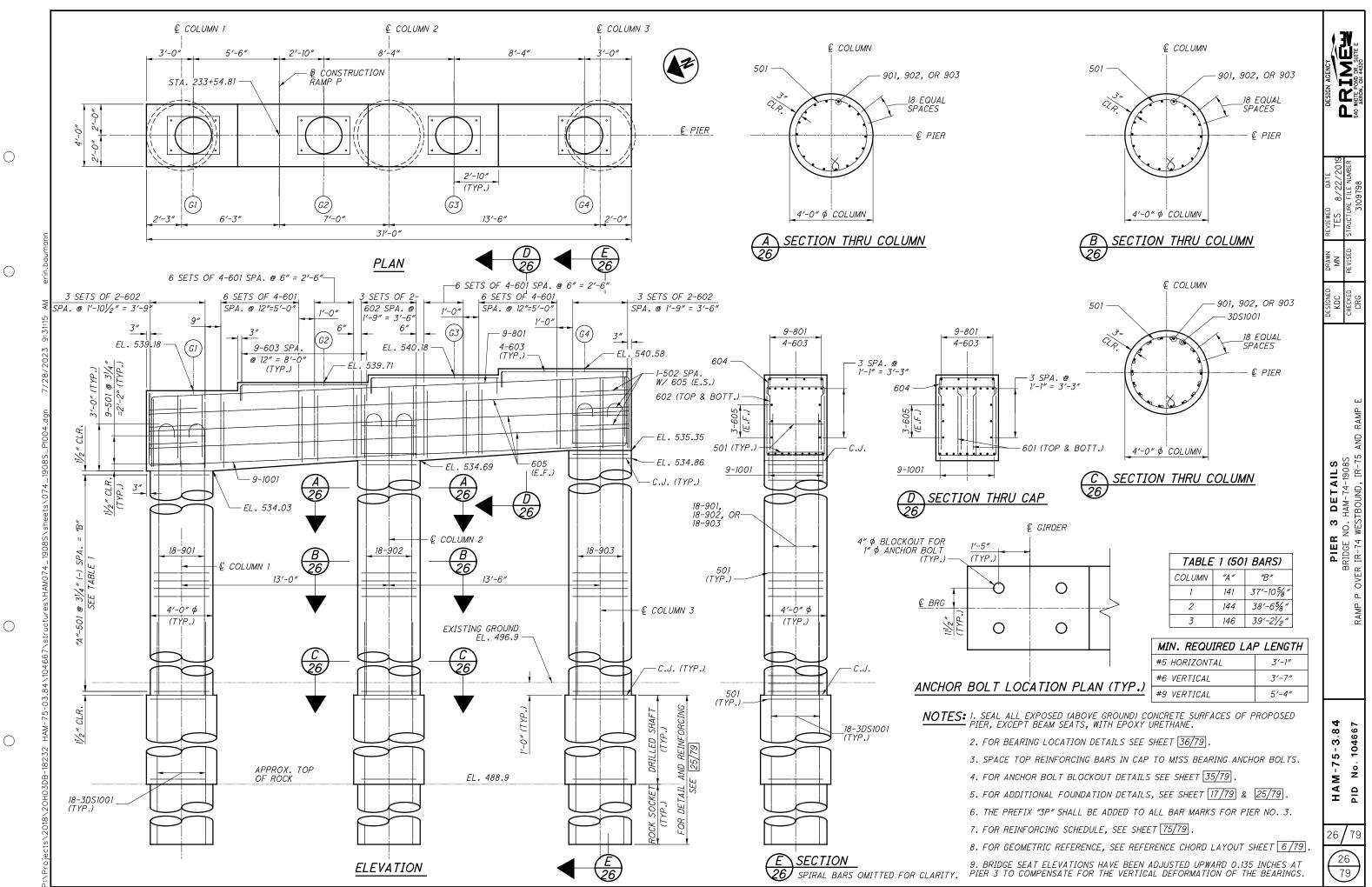


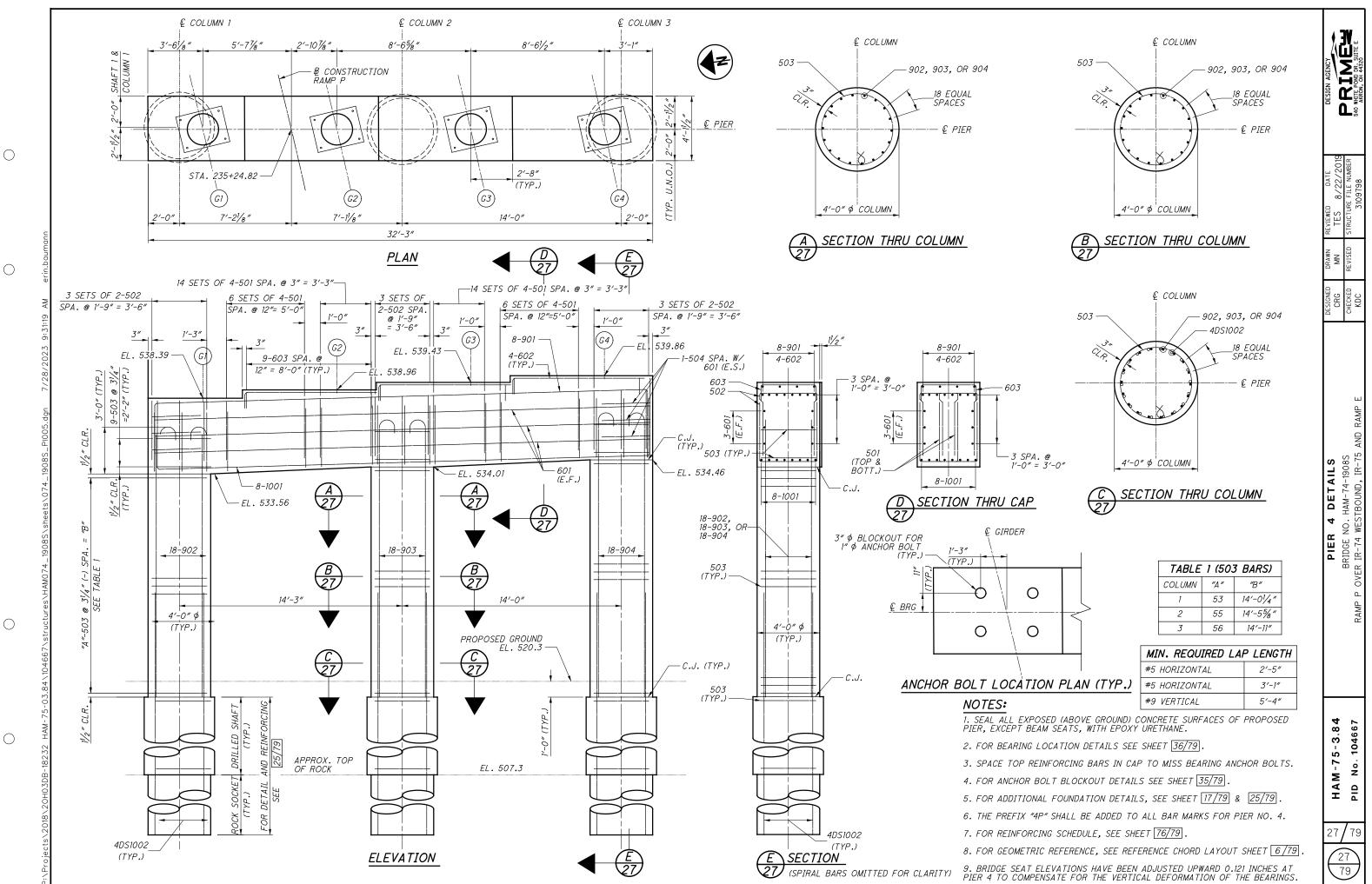
 $\bigcirc$ 

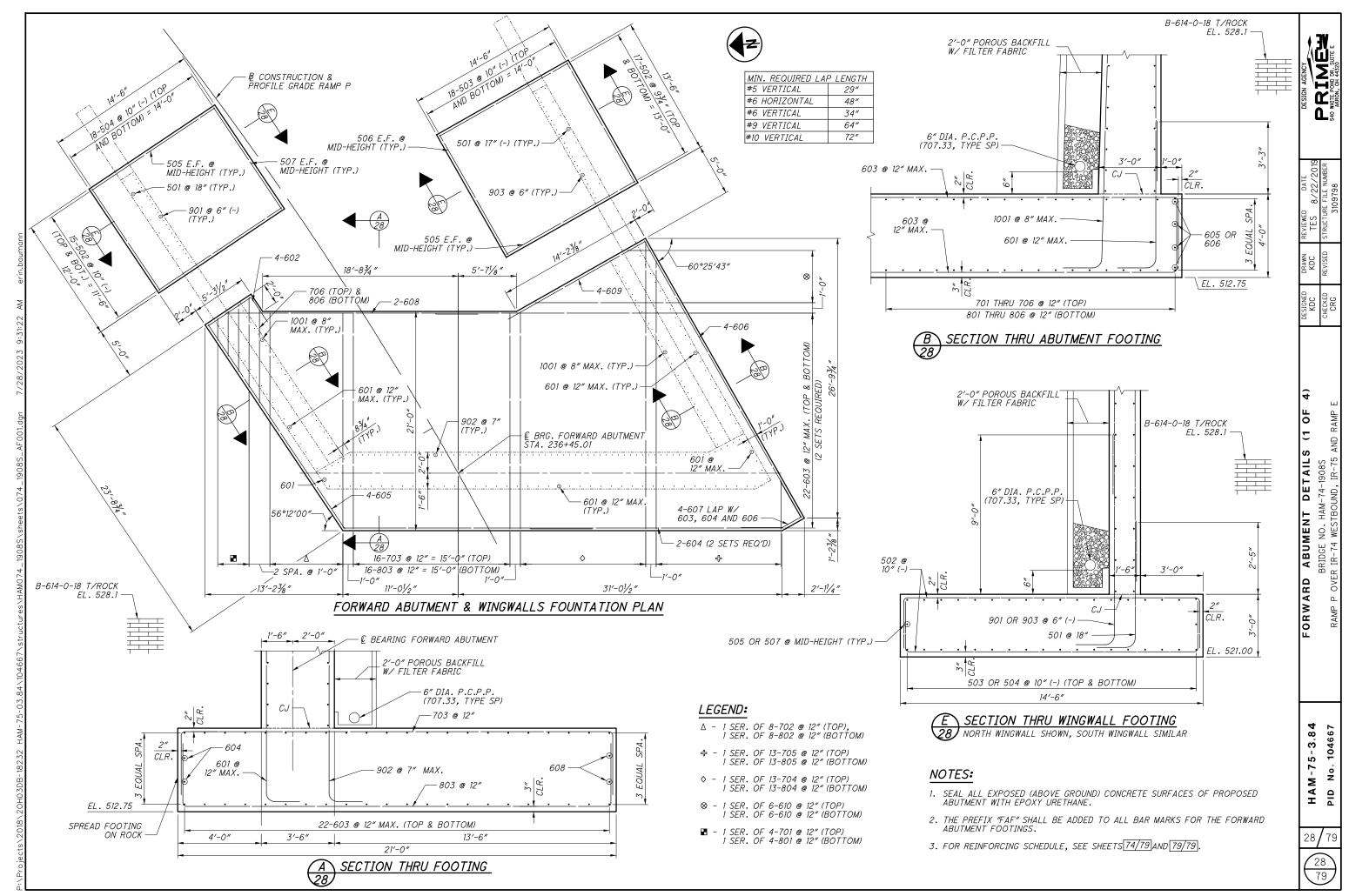
 $\bigcirc$ 

0

\_\_\_\_\_

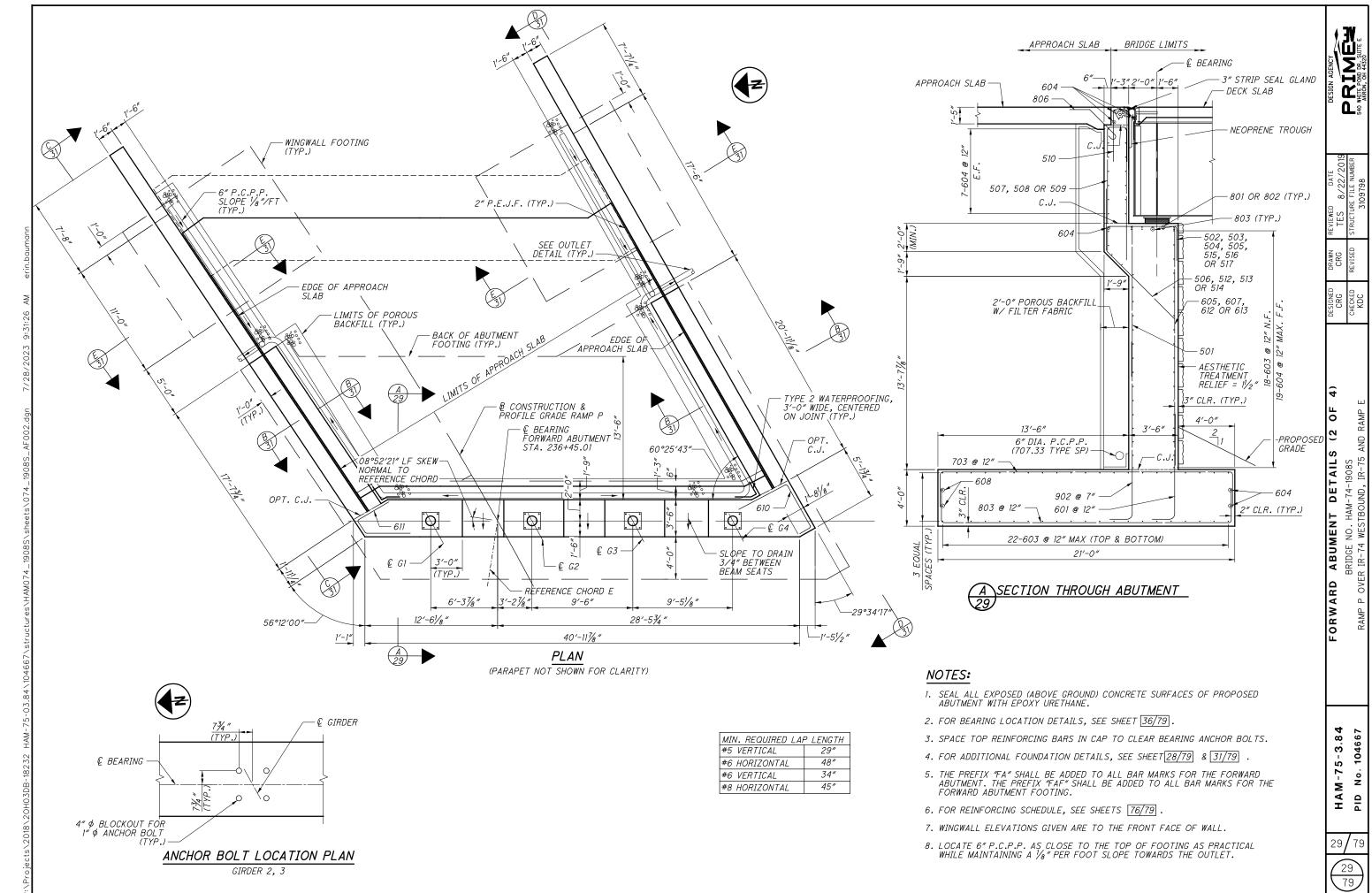






 $\bigcirc$ 

0



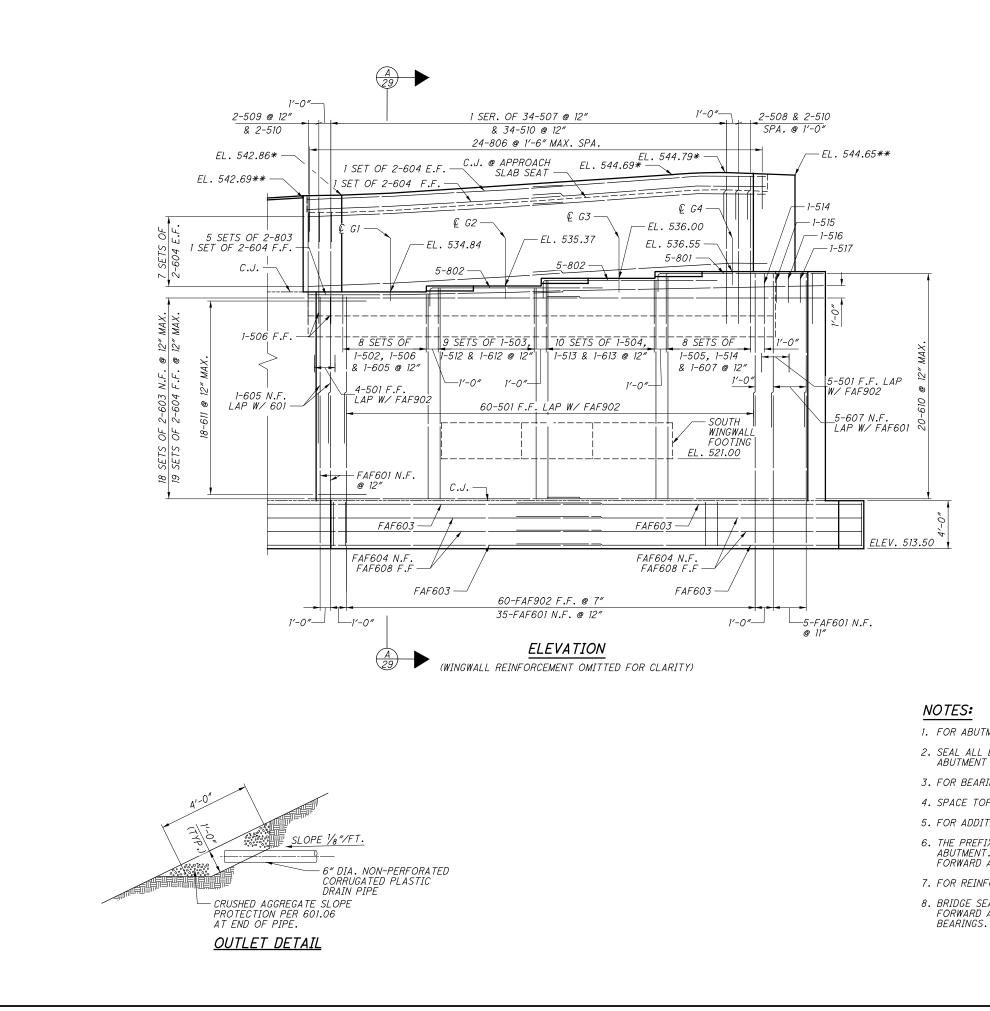
 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 



DATE DESIGN AGENCY 2/2019	NUMBER	8 540 WHITE POND DR. SUITE E AKRON, OH 44320
TES 8/22/2019	D STRUCTURE FILE	3109798
DRAWN CRG	REVISED	
DESIGNED	CHECKED	KDC
~	BKIDGE NO. HAM-14-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
HAM-75-3.84		PID N0. 104667
30	77	'9 <b>\</b>
1/3	0	

MIN. REQUIRED LAP LENGTH				
#5 VERTICAL	29″			
#6 HORIZONTAL	48″			
#6 VERTICAL	34″			
#8 HORIZONTAL	45″			

## LEGEND:

- \* ELEVATIONS ARE TO THE FRONT FACE OF BACKWALL
- \*\* -ELEVATIONS ARE TO THE FRONT FACE OF WINGWALL

1. FOR ABUTMENT PLAN, SEE SHEET 29/79.

2. SEAL ALL EXPOSED (ABOVE GROUND) CONCRETE SURFACES OF PROPOSED ABUTMENT WITH EPOXY URETHANE.

3. FOR BEARING LOCATION DETAILS, SEE SHEET 36/79.

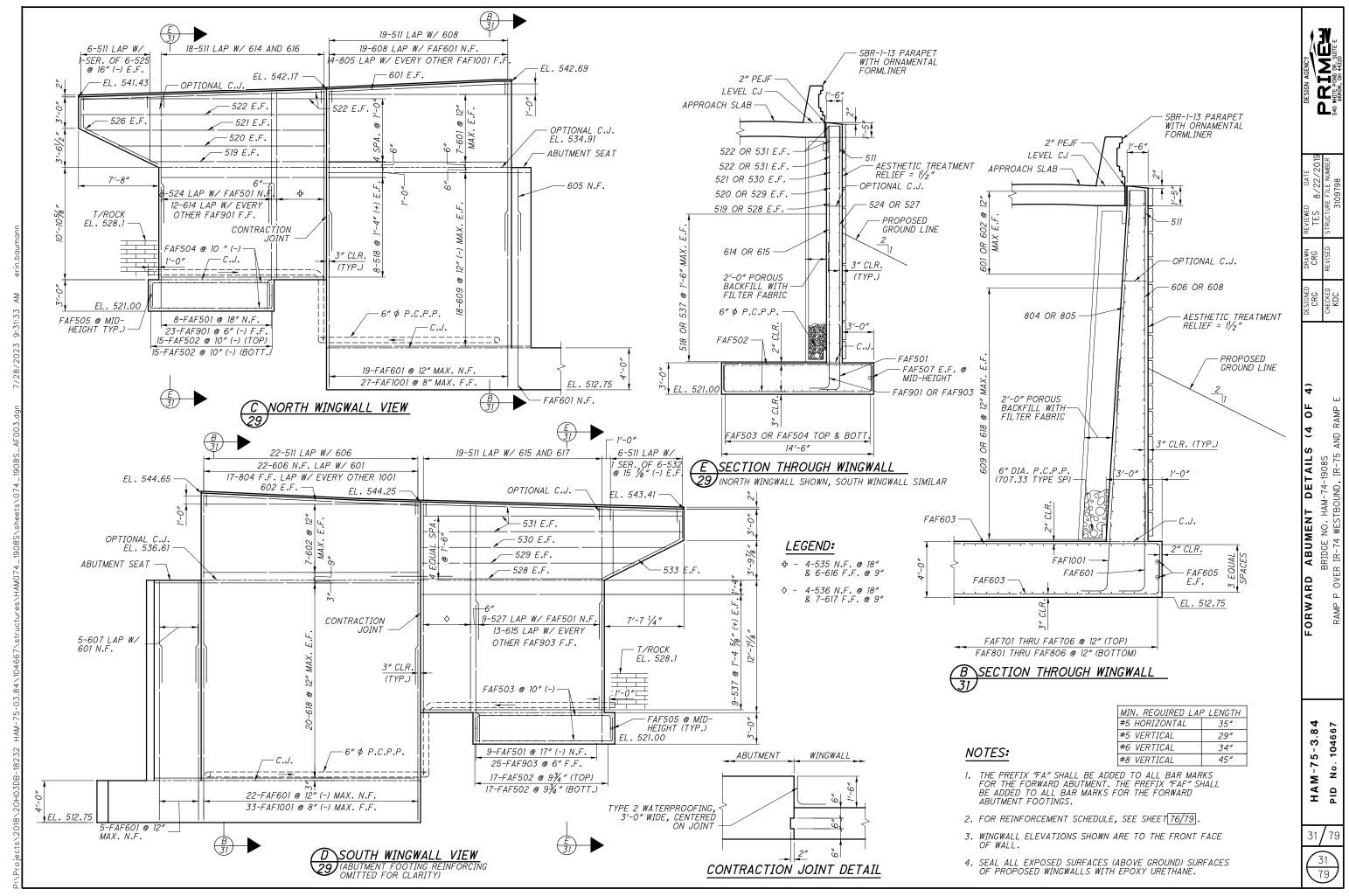
4. SPACE TOP REINFORCING BARS IN CAP TO CLEAR BEARING ANCHOR BOLTS.

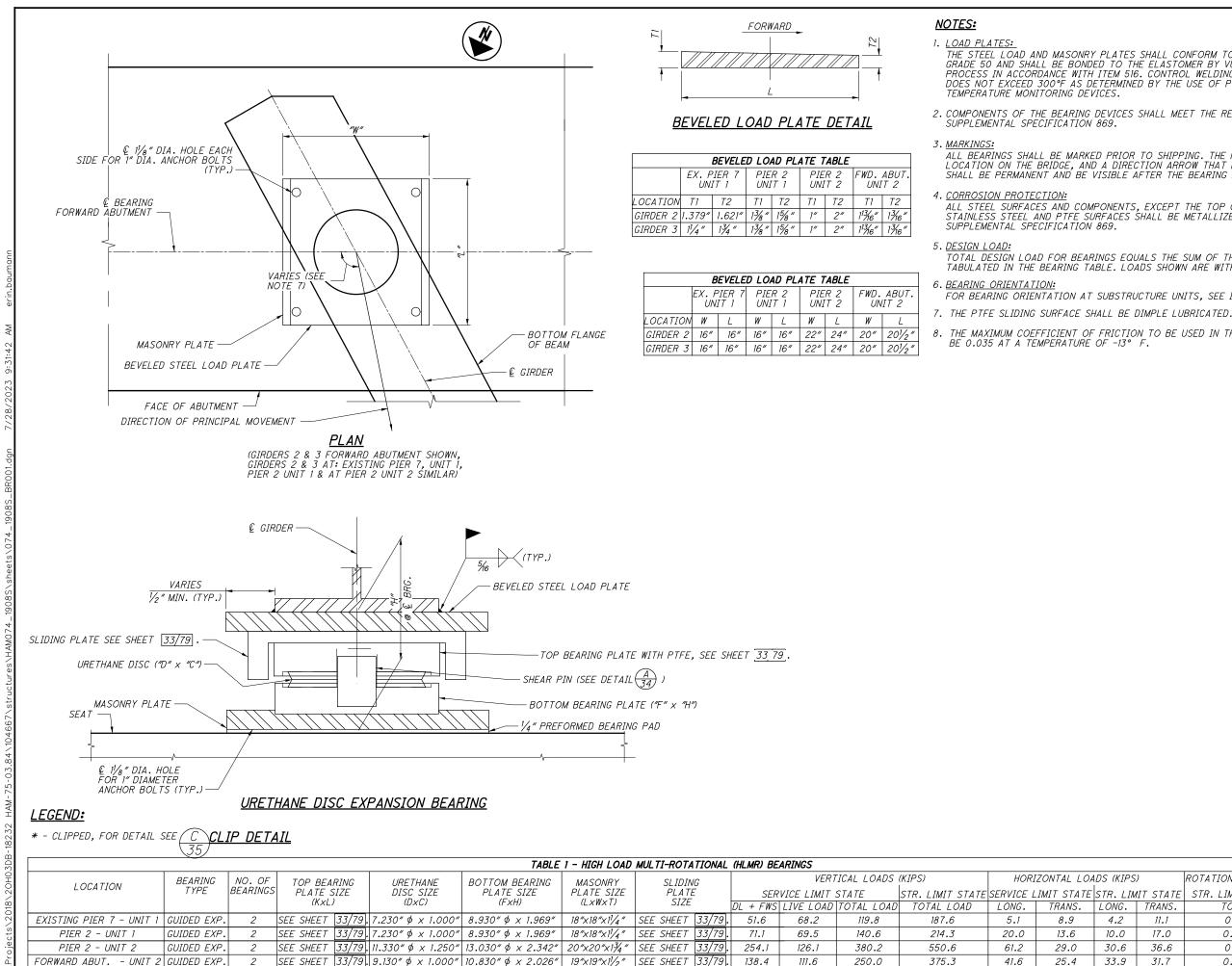
5. FOR ADDITIONAL FOUNDATION DETAILS, SEE SHEET 28/79 & 31/79

6. THE PREFIX "FA" SHALL BE ADDED TO ALL BAR MARKS FOR THE FORWARD ABUTMENT. THE PREFIX "FAF" SHALL BE ADDED TO ALL BAR MARKS FOR THE FORWARD ABUTMENT FOOTING.

7. FOR REINFORCING SCHEDULE, SEE SHEETS 76/79.

8. BRIDGE SEAT ELEVATIONS HAVE BEEN ADJUSTED UPWARD 0.088 INCHES AT FORWARD ABUTMENT TO COMPENSATE FOR THE VERTICAL DEFORMATION OF THE





 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

THE STEEL LOAD AND MASONRY PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50 AND SHALL BE BONDED TO THE ELASTOMER BY VULCANIZATION DURING THE MOLDING PROCESS IN ACCORDANCE WITH ITEM 516. CONTROL WELDING SO THAT THE PLATE TEMPERATURE DOES NOT EXCEED 300°F AS DETERMINED BY THE USE OF PYROMETRIC SENSORS OR OTHER

2. COMPONENTS OF THE BEARING DEVICES SHALL MEET THE REQUIREMENTS OF ODOT

ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.

ALL STEEL SURFACES AND COMPONENTS, EXCEPT THE TOP OF THE STEEL LOAD PLATE, STAINLESS STEEL AND PTFE SURFACES SHALL BE METALLIZED IN ACCORDANCE WITH ODOT

TOTAL DESIGN LOAD FOR BEARINGS EQUALS THE SUM OF THE DEAD LOADS AND LIVE LOADS TABULATED IN THE BEARING TABLE. LOADS SHOWN ARE WITHOUT IMPACT FACTORS INCLUDED.

FOR BEARING ORIENTATION AT SUBSTRUCTURE UNITS, SEE INDIVIDUAL PLAN SHEETS.

8. THE MAXIMUM COEFFICIENT OF FRICTION TO BE USED IN THE DESIGN OF THE BEARINGS SHALL

١Ū HITE POND BR. SU ଲି ЧO Ξ S DETAIL ARING HAM-74-190 BE/ NO. H EXPANSION BRIDGE MP P OVER IR-74 ш ĒD GUIDI °84 104667 ကံ HAM-75ů

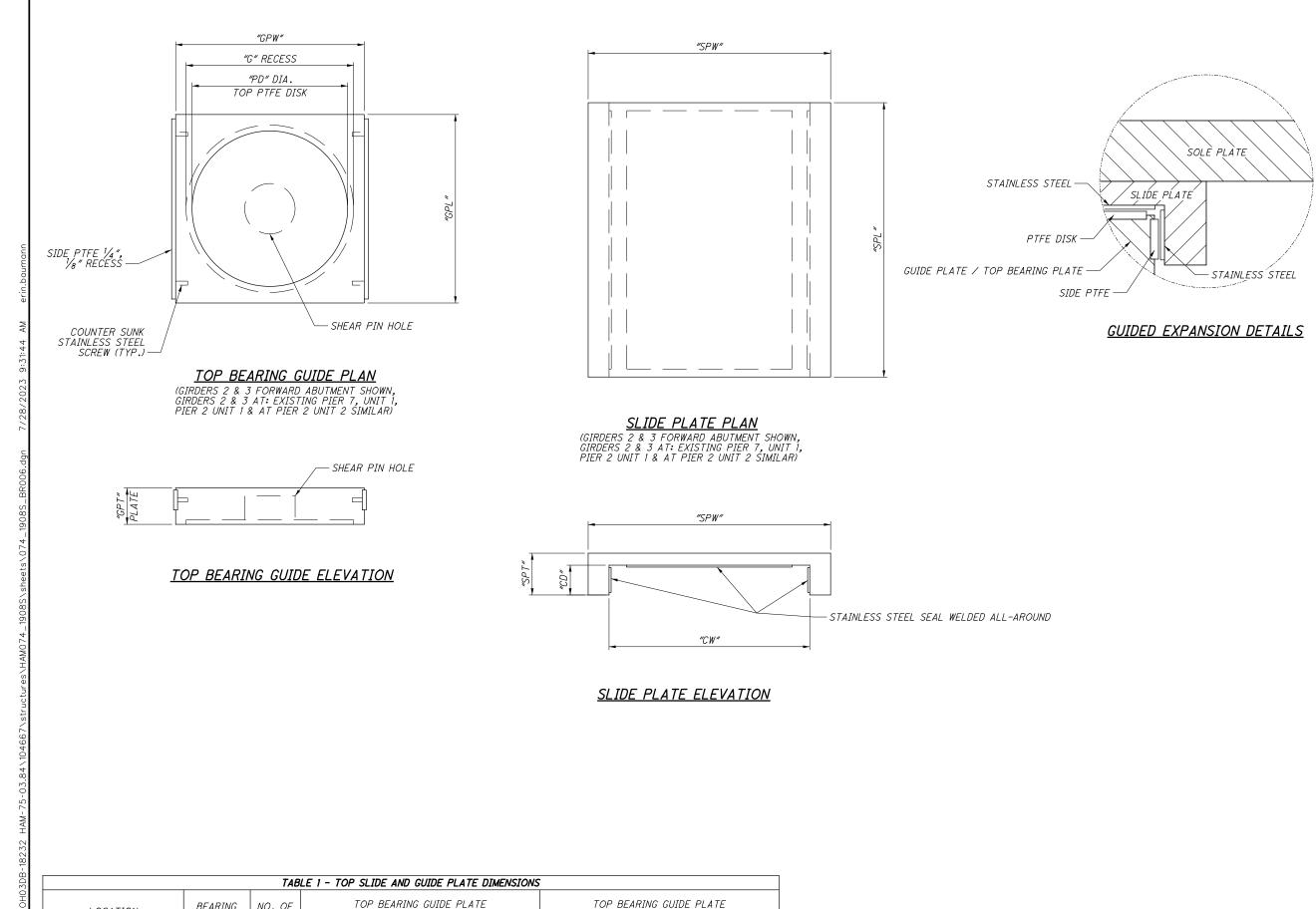
PID

32/79

32

79

LOADS (KIPS)		)	ROTATION (RADIANS)	MAX. ONE WAY MVT. (IN)	
4 <i>TE</i>	STR. LIM	IT STATE	STR. LIMIT STATE	STR. LIMIT STATE	
5.	LONG.	TRANS.	TOTAL	LONG.	
	4.2	11.1	0.012	0.51	
	10.0	17.0	0.006	0.63	
)	30.6	36.6	0.019	1.79	
	33.9	31.7	0.004	1.52	

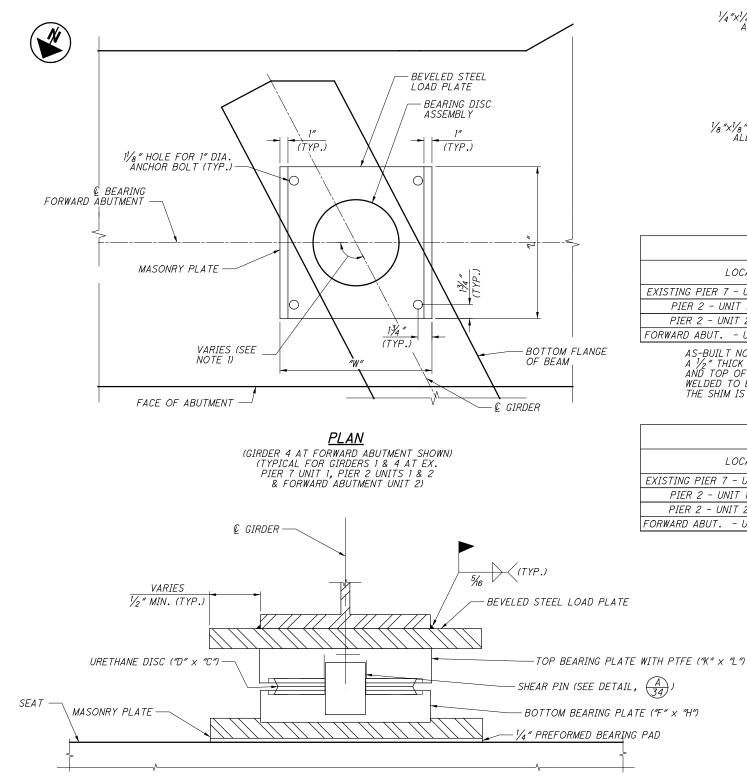


LOCATION	BEARING TYPE	NO. OF BEARINGS		top bea	RING GUIL	DE PLATE			TOP BEA	RING GUIL	DE PLATE	
	,,,,_	DLANINUS	GPW	GPL	GPT	G	PD	SPW	SPW	SPT	CW	CD
EXISTING PIER 7 - UNIT 1	GUIDED EXP.	2	9.930″	9.930″	2.250″	7.930″	7.500″	13.305″	13.435″	2.375″	10.680″	1.625″
PIER 2 - UNIT 1	GUIDED EXP.	2	9.930″	9.930″	2.250″	7.930″	7.500″	13.305″	13.435″	2.375″	10.680″	1.625″
PIER 2 - UNIT 2	GUIDED EXP.	2	14.030″	14.030″	2.492″	12.030″	12.000″	17.655″	19.905″	3.125″	15.030″	2.375″
FORWARD ABUT UNIT 2	GUIDED EXP.	2	11.830″	11.830″	2.276″	9.830″	9.750″	15.205″	17.205″	2.625″	12.580″	1.875″

 $\bigcirc$ 

 $\bigcirc$ 

33	HAM-75-3.84	-	DESIGNED	DRAWN KDC	REVIEWED DATE TES 8/22/2019	DESIGN AGENCY
7-		BRIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
/9 )	PID No.104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320



## 

NON-GUIDED EXPAN	ISION BEAH	RINGS		
LOCATION	DIM. "P"	DIM. "R"	DIM. "S"	DIM. "T"
EXISTING PIER 7 - UNIT 1, GIRDERS 1 & 4	2.000″	3.250″	1.250″	0.875″
PIER 2 - UNIT 1, GIRDERS 1 & 4	2.000″	3.250″	1.250″	0.875″
PIER 2 - UNIT 2, GIRDERS 1 & 4	3.000″	3.375″	1.500″	0.875″
FORWARD ABUT UNIT 2, GIRDERS 1 & 4	2.500″	3.250″	1.250″	0.875″

AS-BUILT NOTE: A ½″ THICK SHIM WAS PLACED BETWEEN BOTTOM OF BEAM AND TOP OF SOLE PLATE AT PIER 2 - UNIT 1, GIRDER 4, WELDED TO BEAM AND TO SOLE PLATE WITH 5/16″ FILLET. THE SHIM IS 15″ WIDE X 14″ LONG.

GUIDED EXPANSI	ON BEARIN	IGS		
LOCATION	DIM. "P"	DIM. "R"	DIM. "S"	DIM. "T"
EXISTING PIER 7 - UNIT 1, GIRDERS 2 & 3	2.500″	3.250″	1.250″	0.875″
PIER 2 - UNIT 1, GIRDERS 2 & 3	2.500″	3.250″	1.250″	0.875″
PIER 2 - UNIT 2, GIRDERS 2 & 3	3.600″	3.875″	1.500″	1.000″
FORWARD ABUT UNIT 2, GIRDERS 2 & 3	3.000″	3.250″	1.250″	0.875″

### URETHANE DISC EXPANSION BEARING

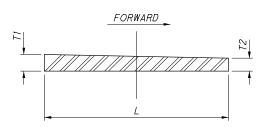
	TA	BLE I - NO	N-GUIDED EXPANSION	N BEARING SCHEDU	LE											
	BEARING	NO. OF	TOP BEARING	URETHANE	BOTTOM BEARING	MASONRY		VERTICA	L LOADS (KIH	PS)	HO	RIZONTAL L	OADS (KIF	rs)	ROTATION (RADIANS)	MAX. ONE WAY MVT. (IN)
EUCATION	TYPE	BEARINGS	PLATE SIZE	DISC SIZE	PLATE SIZE	PLATE SIZE	SER	VICE LIMIT S	STATE	STR. LIMIT STATE	SERVICE L	IMIT STATE	STR. LIN	MIT STATE	STR. LIMIT STATE	STR. LIMIT STATE
			(KXL)	(DXC)	(F XH)	(LXWXT)	DL + FWS	LIVE LOAD	TOTAL LOAD	TOTAL LOAD	LONG.	TRANS.	LONG.	TRANS.	TOTAL	LONG.
EXISTING PIER 7 - UNIT 1	EXP.	2	9.000″ ¢ x 2.095″ i	7.730″ ¢ x 1.000″	8.730" \$ x 1.970"	18″×18″×1¹/₄″	51.6	68.2	119.8	186.7	4.5	10.1	1.8	12.6	0.013	0.51
PIER 2 - UNIT 1	EXP.	2	9.000″ ¢ x 2.095″ ī	7.730″ ¢ × 1.000″	8.730″ ¢ x 1.970″	18″×18″×1¹/₄″	71.1	69.5	140.6	214.3	10.0	13.9	5.0	17.4	0.006	0.63
PIER 2 - UNIT 2, GIRDER 1	EXP.	1	12.875" \$ x 2.215"	11.030″ ¢ × 1.125″	12.730" \$ x 2.000"	20″×20″×11⁄4″	254.1	126.1	380.2	550.6	30.6	47.8	15.3	59.8	0.018	1.79
PIER 2 - UNIT 2, GIRDER 4	EXP.	1	12.875" \$ x 2.215" i	11.030″ ¢ x 1.125″	12.730" \$ x 2.000"	20″x20″x1¹/₄″	254.1	126.1	380.2	550.6	30.6	47.8	15.3	59.8	0.004	1.79
ORWARD ABUT UNIT 2	EXP.	2	11.000″ ¢ x 2.145″ 8	3.930" ¢ x 1.000"	10.630" \$ x 2.000"	19″×19″×1¹/₄″	138.4	111.6	250.0	375.3	20.8	34.7	17.0	43.4	0.005	1.52
2	PIER 2 - UNIT 1 IER 2 - UNIT 2, GIRDER 1 IER 2 - UNIT 2, GIRDER 4	LOCATION XISTING PIER 7 - UNIT 1 EXP. PIER 2 - UNIT 1 EXP. IER 2 - UNIT 2, GIRDER 1 EXP. IER 2 - UNIT 2, GIRDER 4 EXP.	LOCATIONBEARING TYPENO. OF BEARINGSXISTING PIER 7 - UNIT 1EXP.2PIER 2 - UNIT 1EXP.2IER 2 - UNIT 2, GIRDER 1EXP.1IER 2 - UNIT 2, GIRDER 4EXP.1	LOCATION         BEARING TYPE         NO. OF BEARINGS         TOP BEARING PLATE SIZE (K×L)           XISTING PIER 7 - UNIT 1         EXP.         2         9.000" \$ × 2.095" \$ 9.000" \$ × 2.095" \$ 1000 \$	LOCATIONBEARING TYPENO. OF BEARING BARINGSTOP BEARING PLATE SIZE (K×L)URETHANE DISC SIZE XISTING PIER 7 - UNIT 1EXP.2 $9.000" \ \phi \times 2.095"$ $7.730" \ \phi \times 1.000"$ PIER 2 - UNIT 1EXP.2 $9.000" \ \phi \times 2.095"$ $7.730" \ \phi \times 1.000"$ IER 2 - UNIT 2, GIRDER 1EXP.1 $12.875" \ \phi \times 2.215"$ $11.030" \ \phi \times 1.125"$ IER 2 - UNIT 2, GIRDER 4EXP.1 $12.875" \ \phi \times 2.215"$ $11.030" \ \phi \times 1.125"$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c} LOCATION & BEARING \\ TYPE & NO. OF \\ TYPE & NO. OF \\ TYPE & BARING \\ TYPE & NO. OF \\ EARINGS & TOP BEARING \\ PLATE SIZE \\ (K\timesL) & URETHANE \\ DISC SIZE \\ (D\timesC) & PLATE SIZE \\ (D\timesC) & PLATE SIZE \\ (F\timesH) & PLATE SIZE \\ (F\timesH) & NASONRY \\ PLATE SIZE \\ (L\timesW\timesT) & DL + FWS \\ \hline DL + FWS \\ $	$ \begin{array}{c c} LOCATION \end{array} \begin{array}{c} BEARING \\ TYPE \\ TTPP \\ T$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$LOCATION \qquad \begin{array}{c} BEARING\\TYPE \end{array} \begin{array}{c} NO. OF\\TYPE \end{array} \begin{array}{c} NO. OF\\BEARINGS \end{array} \begin{array}{c} TOP BEARING\\TYPE \end{array} \begin{array}{c} TOP BEARING\\PLATE SIZE\\(K\timesL) \end{array} \begin{array}{c} URETHANE\\DISC SIZE\\(K\timesL) \end{array} \end{array} \begin{array}{c} BOTTOM BEARING\\PLATE SIZE\\(F\timesH) \end{array} \begin{array}{c} MASONRY\\PLATE SIZE\\(F\timesH) \end{array} \begin{array}{c} MASONRY\\PLATE SIZE\\(L\timesWXT) \end{array} \begin{array}{c} MASONRY\\PLATE SIZE\\(L\timesWXT) \end{array} \begin{array}{c} FOR BEARING \\TRAVS \end{array} \begin{array}{c} STR. LIMIT STATE \end{array} \begin{array}{c} STR. LIMIT STATE \\SERVICE LIMIT STATE \\SERVICE LIMIT STATE \end{array} \begin{array}{c} STR. LIMIT STATE \\SERVICE LIMIT STATE \\SERVICE LIMIT STATE \end{array} \begin{array}{c} STR. LIMIT STATE \\SERVICE LIMIT STAT$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 



## BEVELED LOAD PLATE DETAIL

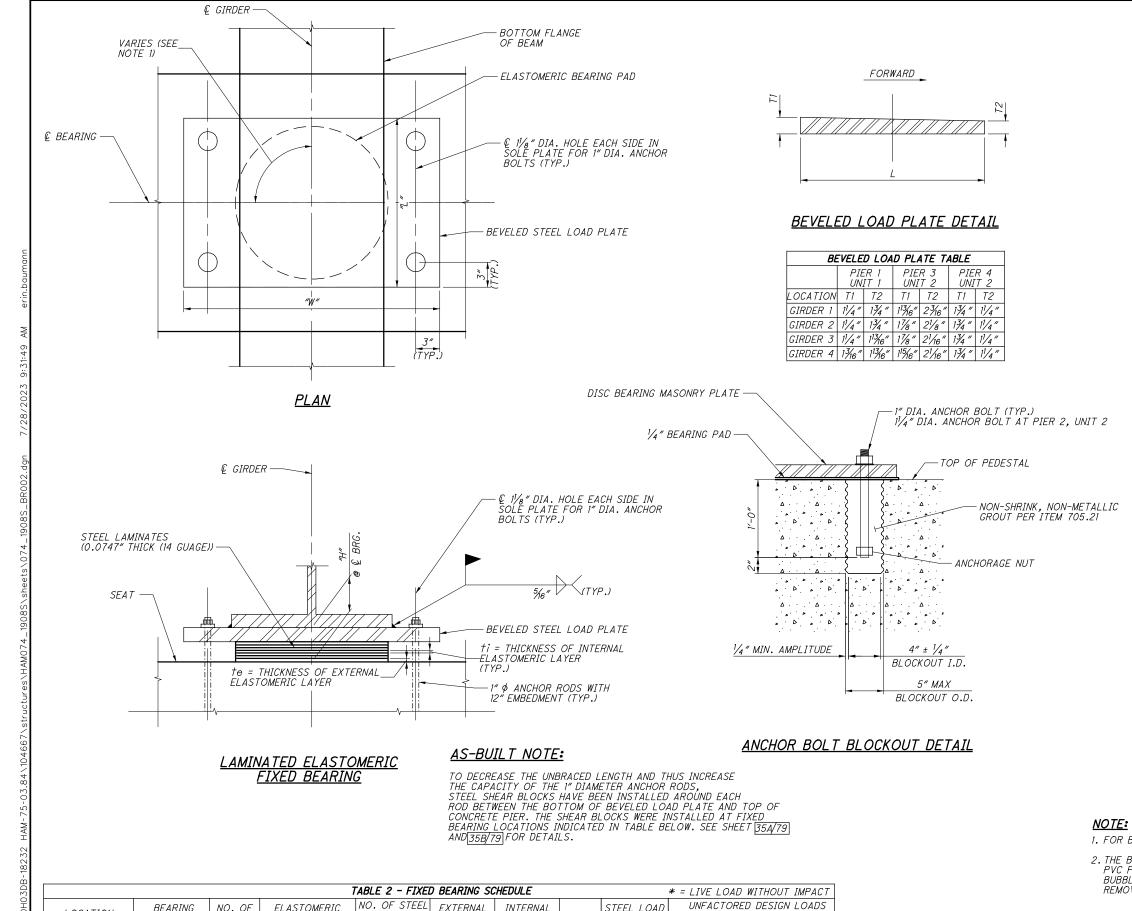
	BE	VELEL	) LOA	D PLA	TE T	ABLE		
	EX. F UN.		PIE UNI			R 2 T 2		ABUT. IT 2
LOCATION	T1	T2	T1	T2	T1	T2	T1	T2
GIRDER 1	11/8″	13/8″	1 <sup>1</sup> /16″	11/16″		15/8″	11/2"	1‴
GIRDER 4	11/8"	13/8″	11/8″	13/8″	1″	11/2"	11/2"	1‴

	BE	VELEL	) LOA	D PLA	TE T	ABLE		
	EX.F UN	PIER 7 IT 1	PIE UNI			R 2 T 2		ABUT. IT 2
LOCATION	W	L	W	L	W	L	W	L
GIRDER 1	16″	14″	16″	14″	19″	19″	19″	17″
GIRDER 4	16″	14″	16″	14″	29″	19″	19″	17″

<u>NOTE:</u>	

1. FOR NOTES, SEE SHEET 32/79.





			7	ABLE 2 - FIXE	d bearing so	HEDULE			* = LIVE L	OAD WITHOU	<i>JT IMPACT</i>
LOCATION	BEARING	NO. OF	LLAJIOMLNIC	NO. OF STEEL	LAILMAL	INTERNAL		STEEL LOAD	UNFAC	TORED DESIG	GN LOADS
LOCATION	TYPE	BEARINGS	BEARING PAD SIZE	LAMINATES 0.0747″ THICK	LAYERS (te) (THICK.)	LAYERS (†i) (#. THICK.)	<i>"H"</i> (IN.)	PLATE SIZE (LXWXT)	DEAD LOAD (K)	LIVE LOAD (K)*	TOTAL LOAD (K)
				(14 GAGE)	(1110)(1)	(*), 11101(1)			LOAD (K)	LUAD (K)*	LOAD (K)
PIER 1 - UNIT 1	FIXED	4	20″ ¢x2.55″	4	0.250″	4 @ 0.500″	4.05″	21"×32"×1½"	220.7	113.1	333.8
PIER 3 - UNIT 2	FIXED	4	28″ \$×4.85″	8	0.250″	8 @ 0.500"	6.85″	29"×40"×2"	525.2	200.4	725.6
PIER 4 - UNIT 2	FIXED	4	24″ \$x4.27″	7	0.250″	7 @ 0.500″	5.77″	28″×36″×11⁄2″	386.4	168.1	554.5

 $\bigcirc$ 

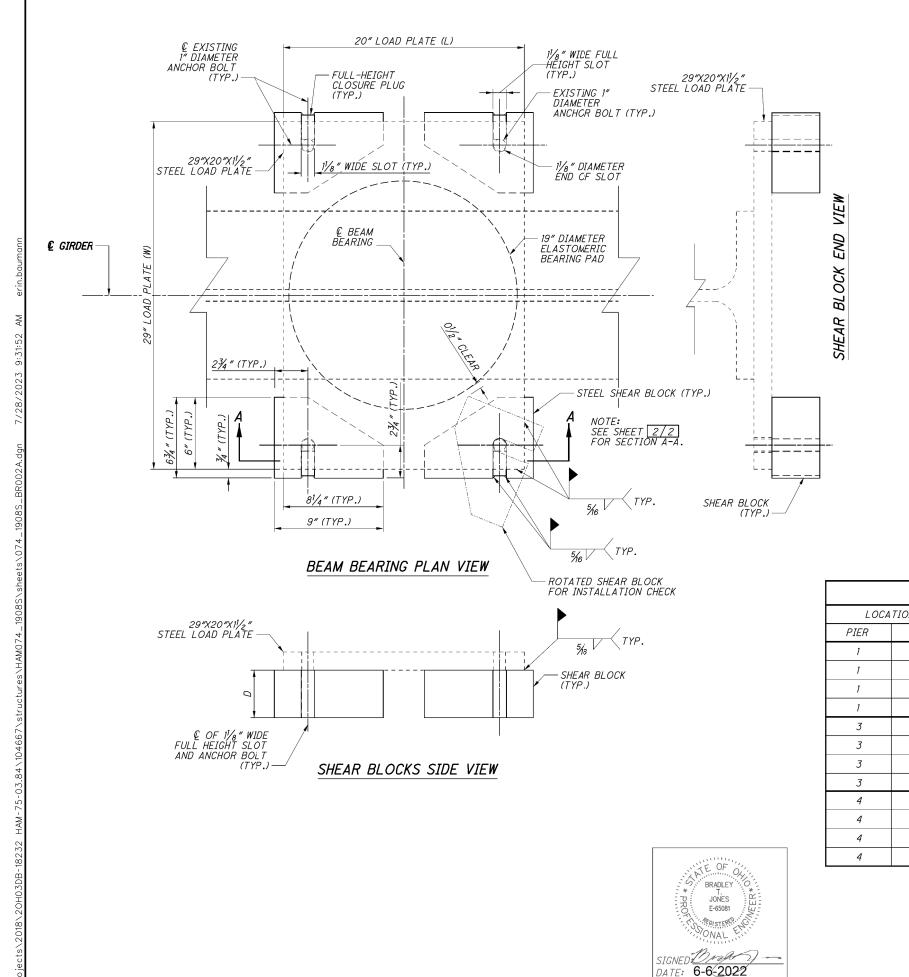
 $\bigcirc$ 

 $\bigcirc$ 

3			DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
5 3 7	HAM-75-3.84	FIXED BEARING DETAILS	KDC	KDC	TES 8/22/2019	
59		BRIDGE NO. HAM- 14-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320

1. FOR BEARING NOTES, SEE SHEET 32/79

2. THE BLOCKOUT DIMENSIONS ARE BASED ON A 3  $\frac{1}{2}$ " PVC PIPE THAT IS WRAPPED IN HIGH GRADE BUBBLE BUBBLE WRAP WITH  $\frac{1}{2}$ " BUBBLES THAT WILL BE REMOVED AFTER THE CONCRETE HAS SET.



 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

### PROPOSED WORK

THE PURPOSE OF THESE PLANS IS IN RESPONSE TO RFI 123 1908S. THESE PLANS ARE FOR THE FABRICATION AND INSTALLATION OF STEEL SHEAR BLOCKS AROUND THE BEAM ANCHOR BOLTS AT PIERS 1, 3, AND 4.

### QUANTITIES

16 EACH – 2" TALL SHEAR BLOCKS AND PLUGS FOR PIER 1 16 EACH – 4.25" TALL SHEAR BLOCKS AND PLUGS FOR PIER 3 16 EACH – 3.75" TALL SHEAR BLOCKS AND PLUGS FOR PIER 4

### GENERAL NOTES:

- HEIGHT SLOT CUT ASSUMING A PLUMB ANCHOR BOLT.

		SHEAR BL	OCK SCHEDULE	
LOCA	TION	HEIGHT OF BEARING PAD	HEIGHT OF SHEAR BLOCK	ANCHOR BOLT DRIFT
PIER	GIRDER	(MEASURED IN FIELD)	DIMENSION "D"	(FIELD MEASURED (IN./ 6 IN.))
1	G4	2.55″	2.00″	0″
1	G3	2.55″	2.00″	0″
1	G2	2.55″	2.00″	0″
1	G1	2.55″	2.00″	0″
3	G4	4.85″	4.25″	0.125″
3	G3	4.85″	4.25″	0.125″
3	G2	4.85″	4.25″	0.125″
3	G1	4.85″	4.25″	0.125″
4	G4	4.27″	3.75″	0.125″
4	G3	4.27″	3.75″	0.480″
4	G2	4.27″	3.75″	0.125″
4	G1	4.27″	3.75″	0.360″

1. ALL ANCHOR BOLTS WERE FIELD MEASURED AND ARE 1 INCH DIAMETER.

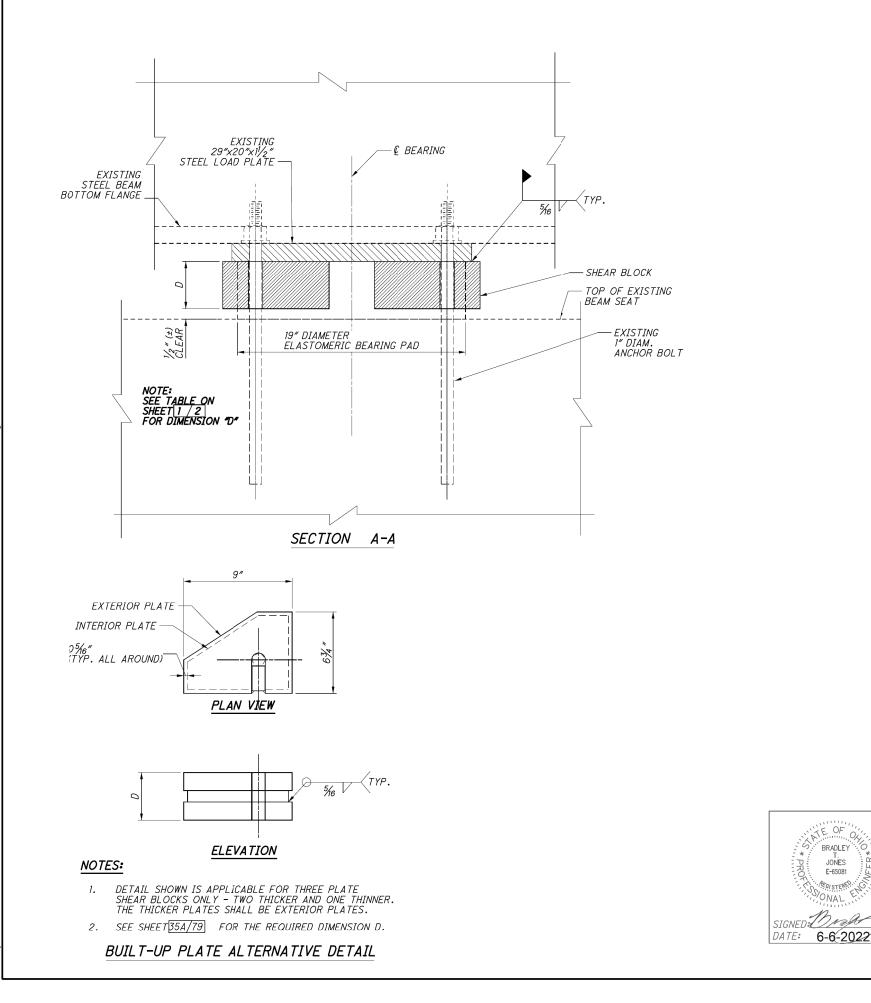
2. THE MEASURED ANCHOR BOLT DRIFT CAN BE IN ANY DIRECTION, THEREFORE, THE 11/8" WIDE FULL-HEIGHT SLOT AND THE FULL-HEIGHT PLUG WILL NEED TO BE ADJUSTED TO FIT IN THE FIELD BY A COMBINATION OF GRINDING AND WELD FILLER. THE INSIDE OF THE PLUG SHALL TOUCH THE BOLT FOR SNUG FIT. EACH SHEAR BLOCK SHALL BE DELIVERED TO THE FIELD GALVANIZED AND WITH THE FULL-

3. MATERIAL OF THE SHEAR BLOCKS AND FULL-HEIGHT PLUGS SHALL BE GALVANIZED A709 GRADE 50 STEEL. WELDING MATERIAL SHALL BE PER CMS 711.08. WELDING SHALL FOLLOW THE AMERICAN WELDING SOCIETY (AWS BRIDGE WELDING CODE), THE SPECIFICATIONS OF THE EXISTING BRIDGE AND CMS 513.21. GALVANIZING SHALL BE PER ASTM A 123. GALVANIZING SHALL BE REPAIRED AFTER WELDING OF SHEAR BLOCKS WITH GALVANIZING PAINT PER CMS 711.02.

4. CONTROL THE FIELD WELDING ON EXISTING ELASTOMERIC BEARING LOAD PLATES SO THAT THE TEMPERATURE OF THE ELASTOMER DOES NOT EXCEED 300°F.

NOTE: THIS PLAN IS THE PRIME AE RESPONSE TO RFI 123 1908S

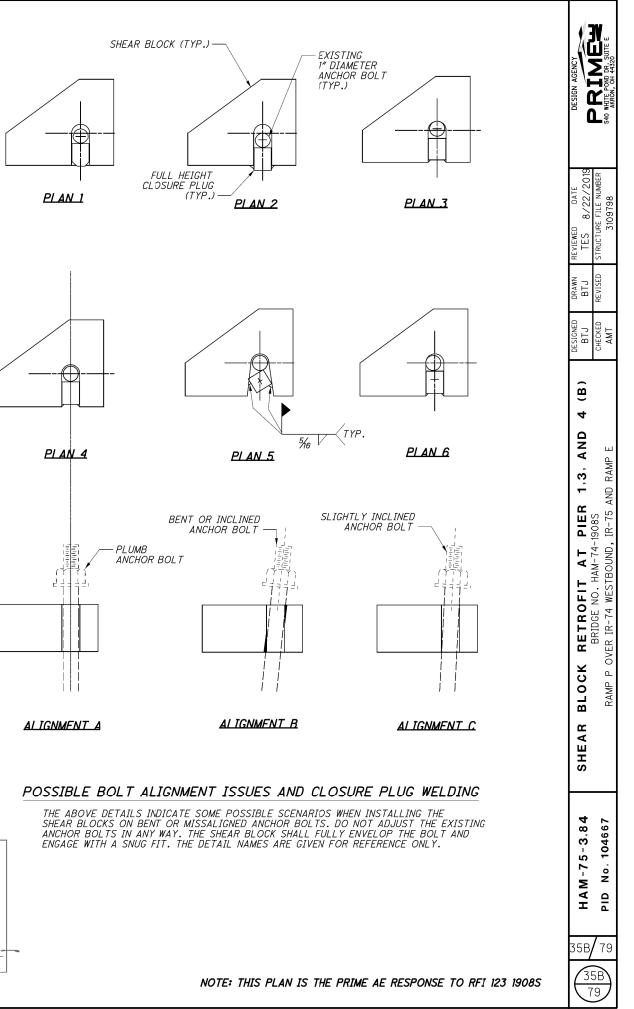


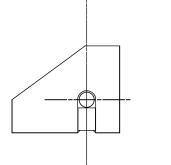


 $\bigcirc$ 

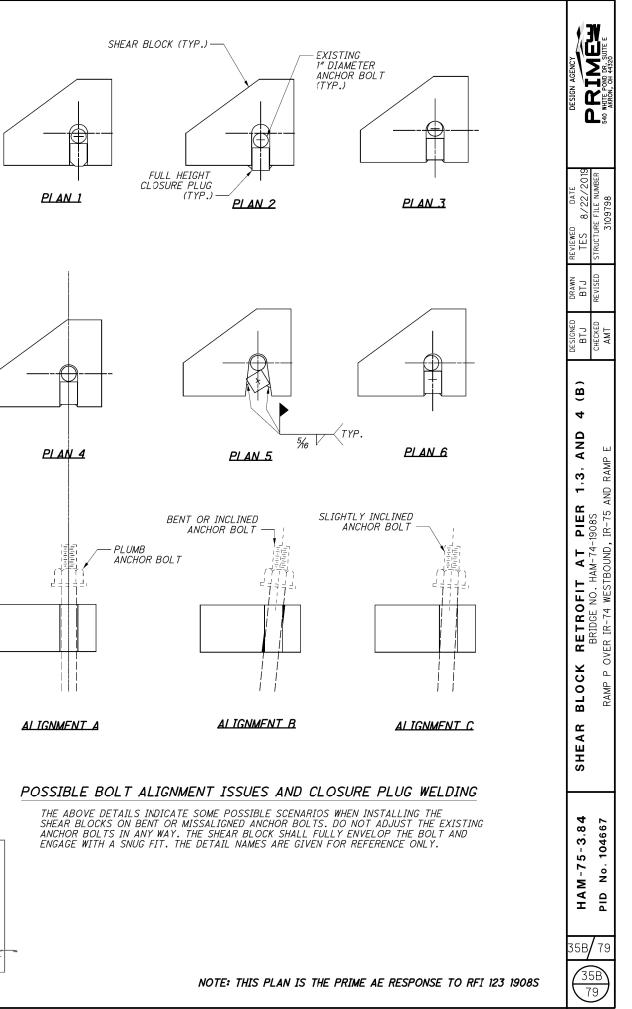
 $\bigcirc$ 

 $\bigcirc$ 









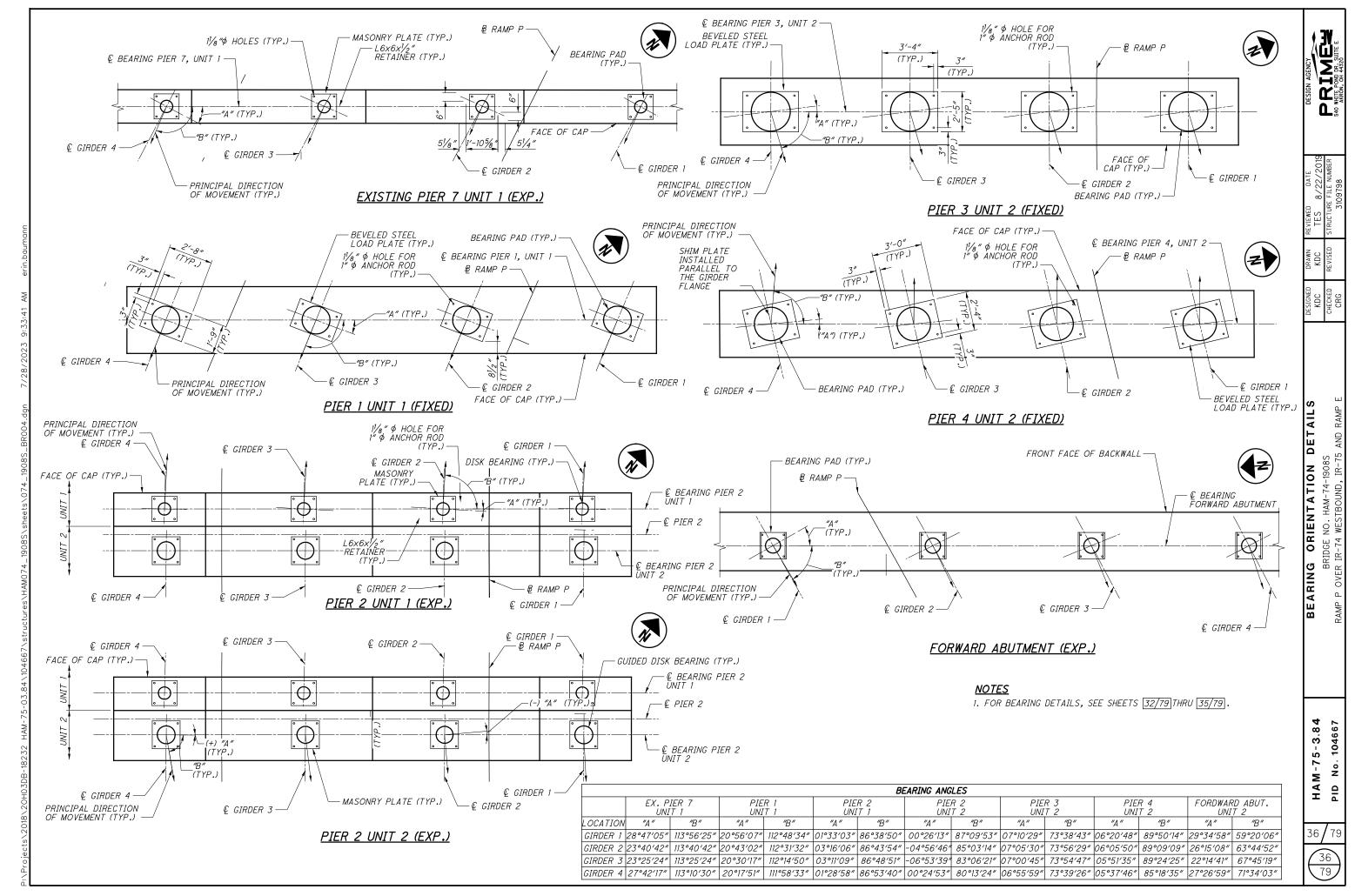
.0

T. JONES E-65081

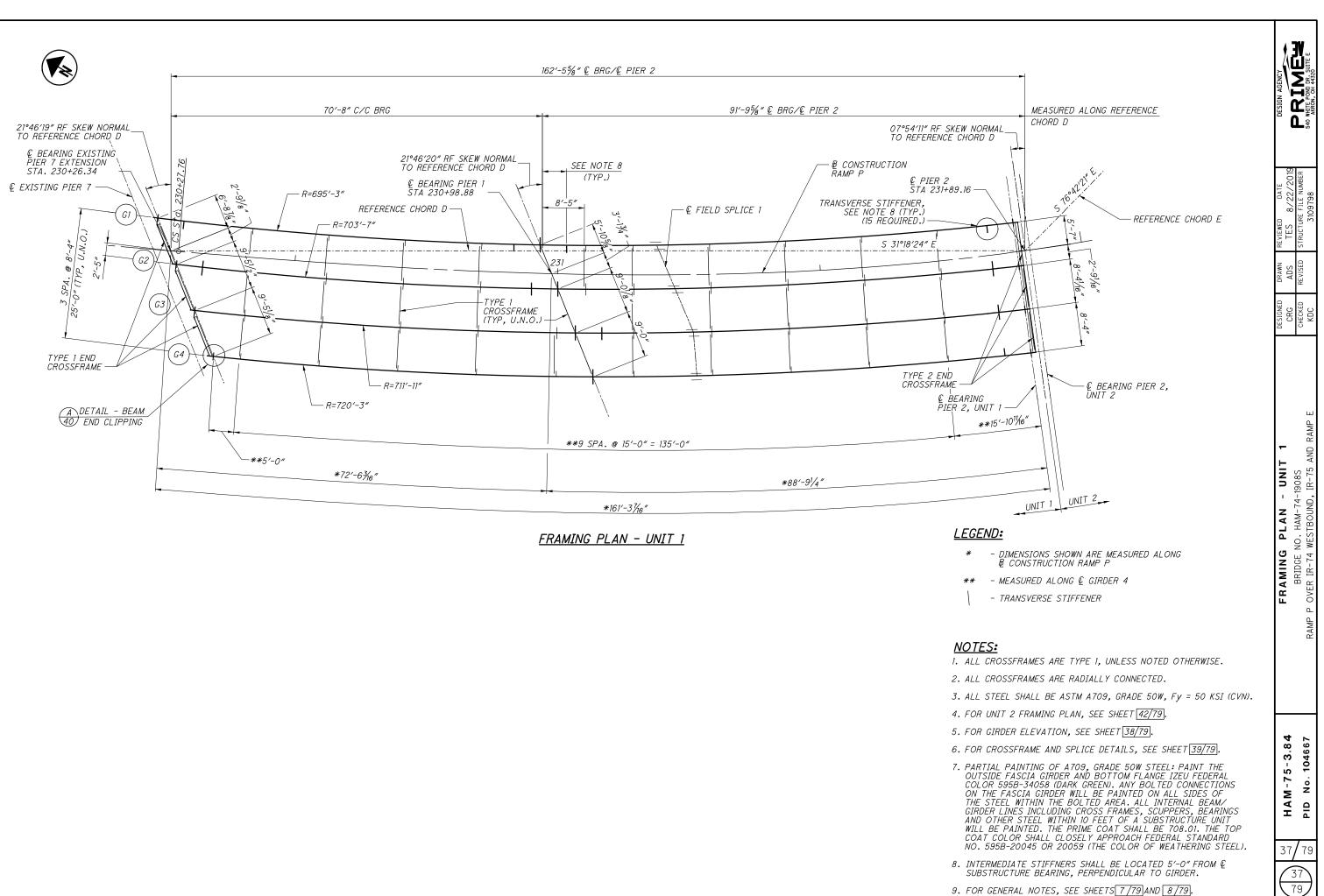
DNAL

6-6-2022

VEER\*0

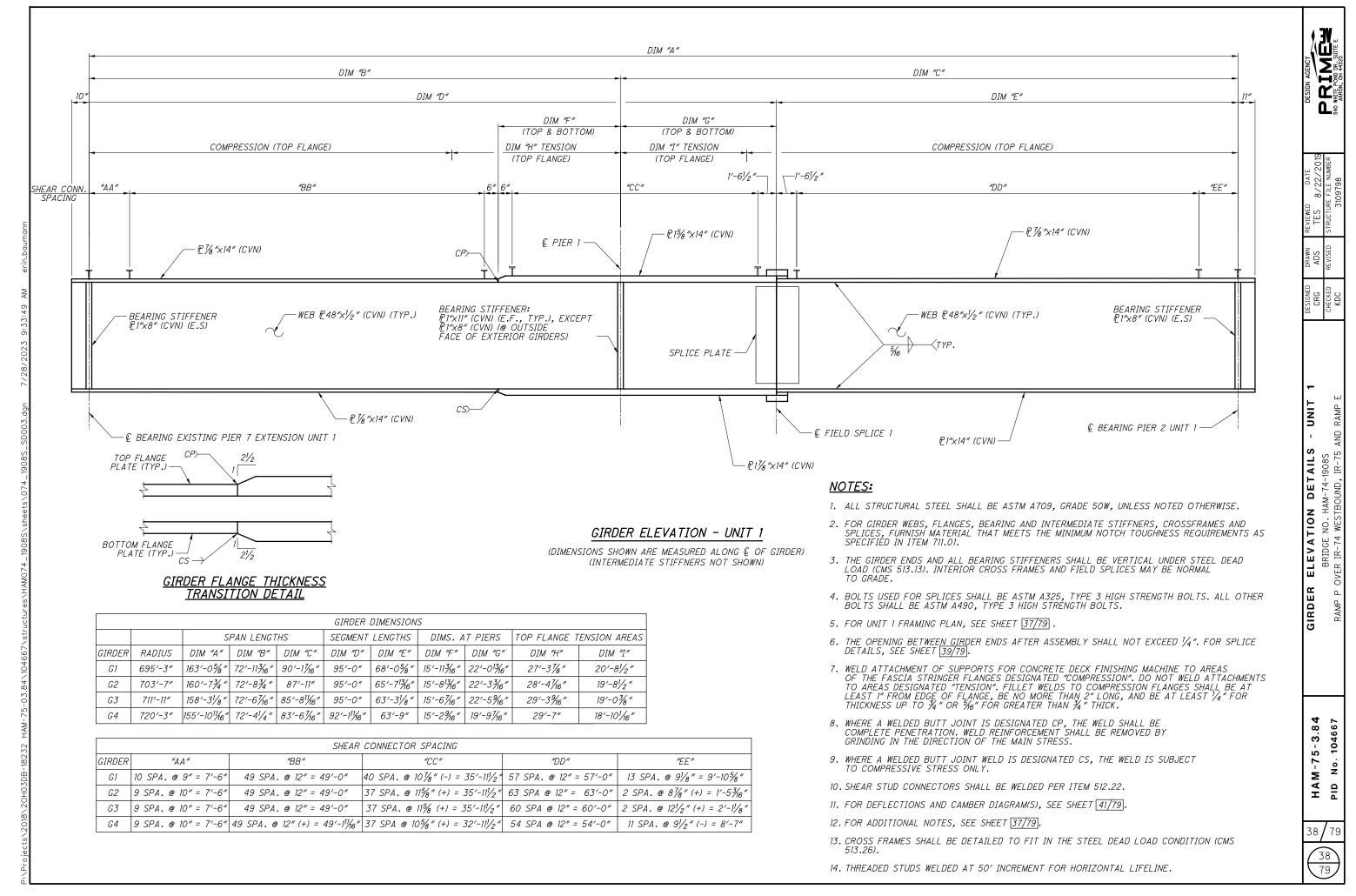


 $\bigcirc$ 

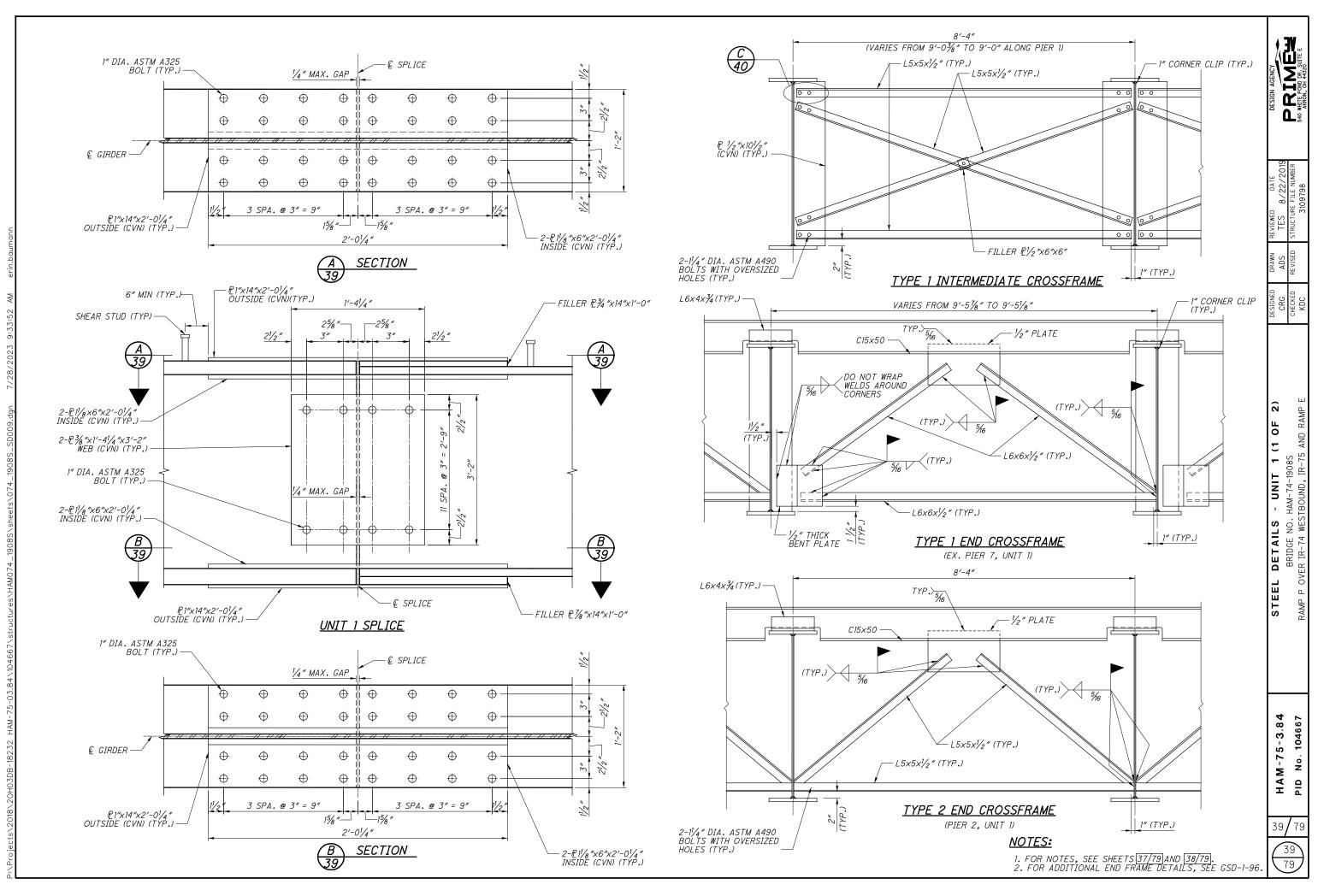


 $\bigcirc$ 

 $\bigcirc$  $\bigcirc$ 

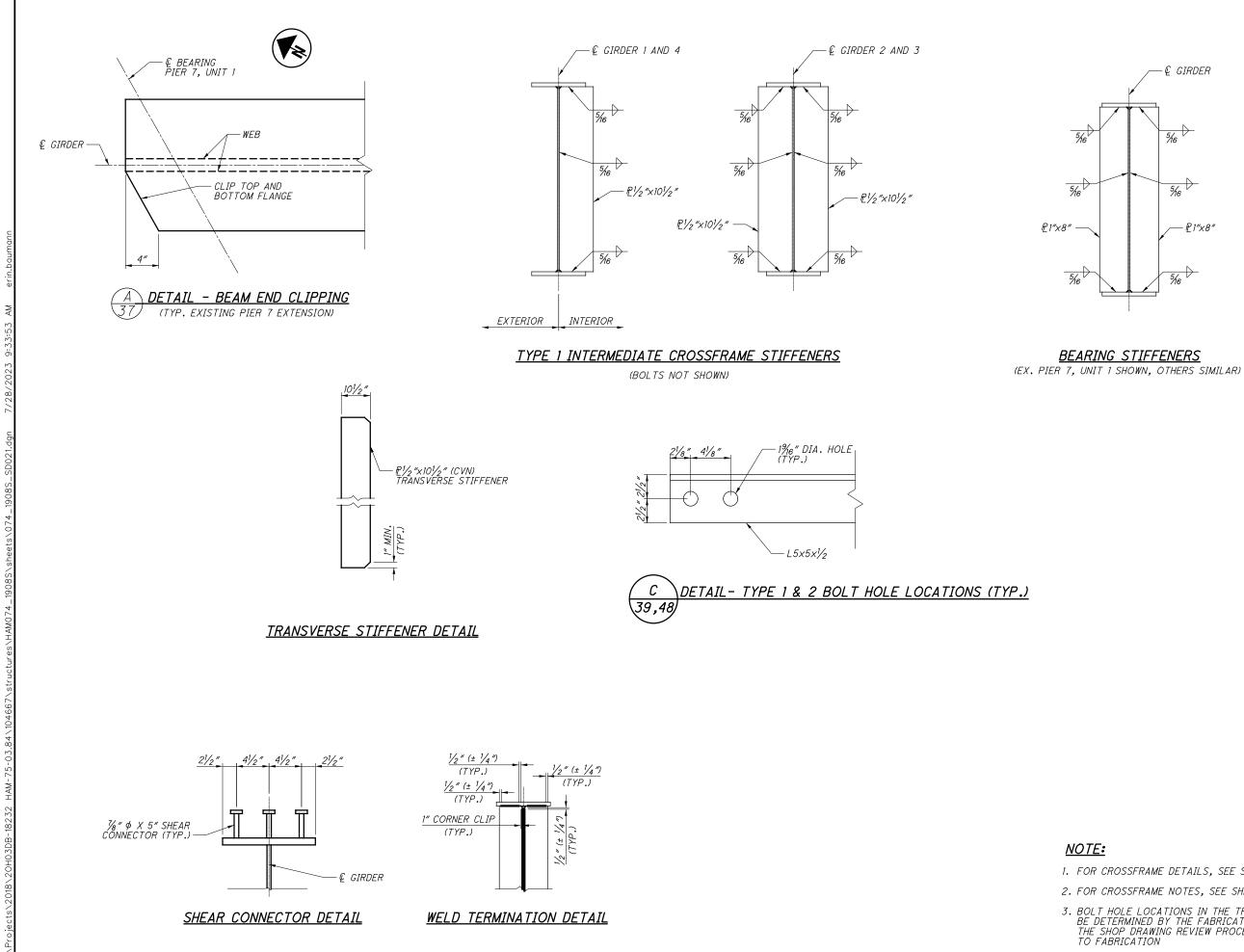


 $\bigcirc$ 



 $\bigcirc$ 

0



 $\bigcirc$ 

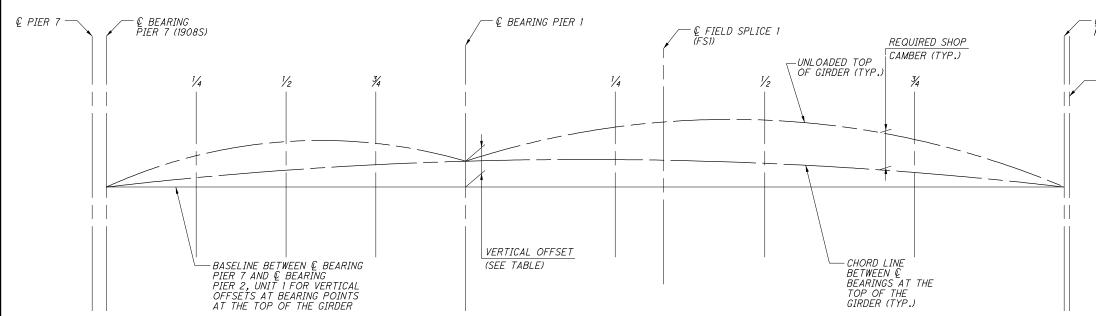
 $\bigcirc$ 

 $\bigcirc$ 

1. FOR CROSSFRAME DETAILS, SEE SHEET 39/79 2. FOR CROSSFRAME NOTES, SEE SHEETS 37/79 AND 38/79.

3. BOLT HOLE LOCATIONS IN THE TRANSVERSE STIFFENERS WILL BE DETERMINED BY THE FABRICATOR AND VERIFIED THROUGH THE SHOP DRAWING REVIEW PROCESS BY THE ENGINEER PRIOR

4		STEEL DETAILS - INNIT 1 (2 OF 2)	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
4	HAM-75-3.84		CRG	KDC	TES 8/22/2019	
_		BKIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
<sup>79</sup>	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	KDC		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320



CAMBER DIAGRAM - UNIT 1

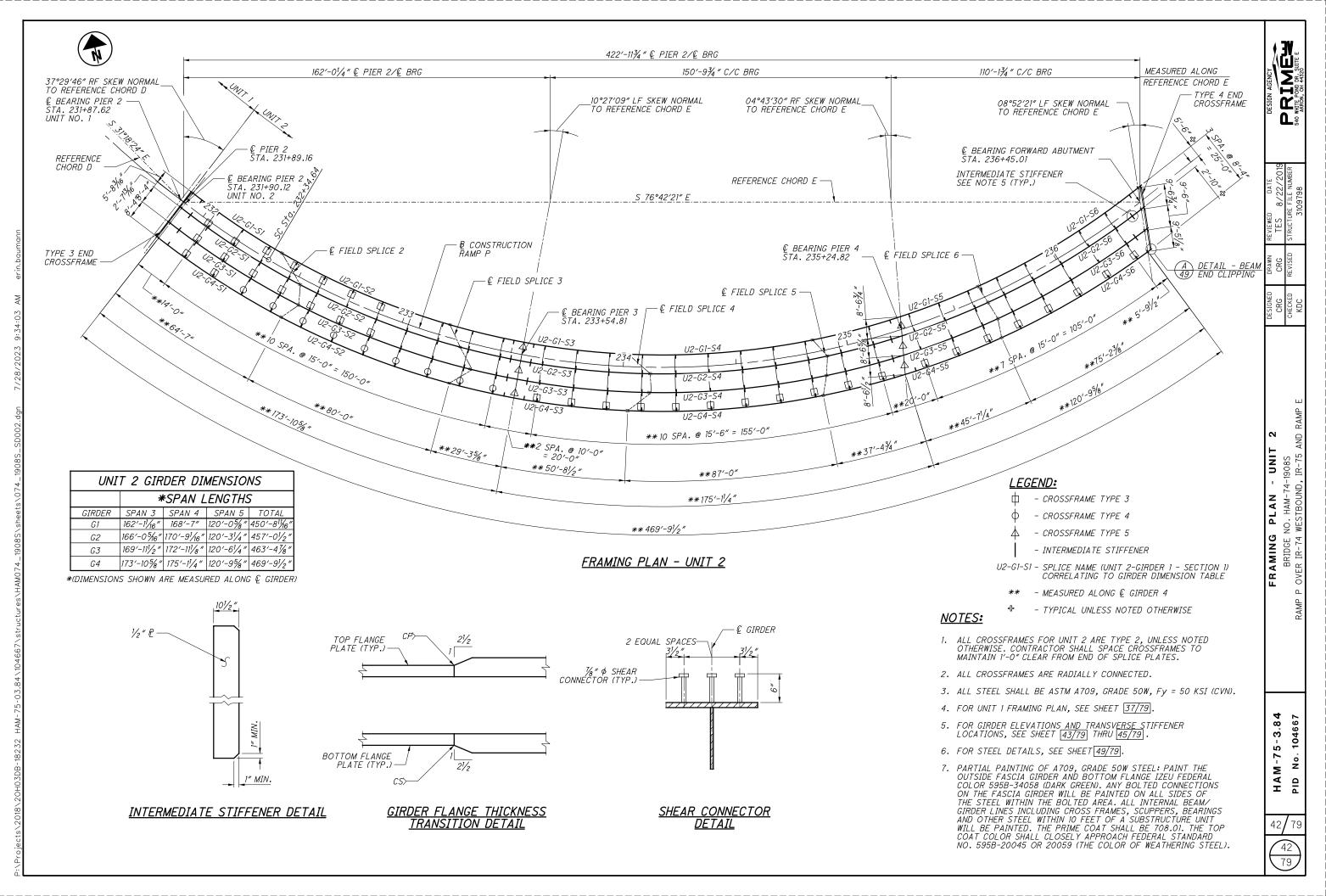
	l	DEFLECTIC	N AND CAN	IBER (INCH	ES) – GIRL	DER 1				
	© BRG. PIER 7	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FS1	1/2 POINT	3/4 POINT	© BRG. PIER 2
DEFLECTION DUE TO WEIGHT OF STEEL	0''	1/16′′	1/16″	-0 ''	0''	1/8''	1/8″	3/16″	3/16″	0 "
DEFLECTION DUE TO REMAINING DL	0''	5/16″	1/4″	0 "	0''	5/8″	5/8″	1 1/4″	1 ″	0 "
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0″	- 5/8″	- 7/8''	- 11/16''	0''	-1 3/16″	-1 3/16″	-1 11/16''	-1 5/16″	0''
REQUIRED SHOP CAMBER	0''	- 1/4''	- 9/16''	- 11/16''	0''	- 7/16''	- 7/16″	- 1/4″	- 1/8''	0''

	- € BEARING PIER 2, UNIT 1 € PIER 2		DESIGN AGENCY <b>PRINEL</b> 540 WHITE POND BR. SUITE E 540 MATE POND BR. SUITE E
			DESIGNED     DRAWN     REVIEWED     DATE       KDC     KDC     TES     8//22/2019       CHECKED     REVISED     STRUCTURE FILE NUMBER       CRG     3109798
VERTICAL OFF GIRDER 1 GIRDER 2 GIRDER 3 GIRDER 4	SET (INCHES) PIER 1 - 4¾ " - 4¼" - 4¼" - 31‰"		CAMBER DIAGRAM AND TABLE - UNIT 1 BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
VALUES FC INDICATE V 2. DEFLECTIO NEAREST 1/ 3. FOR GENER 4. FOR FRAMI	R VERTICAL CURVE YALUES BELOW THE NS AND ADJUSTMEN Keth INCH.	ITS FOR VERTICAL CURVES ARE GIVEN TO THE EET 7/79 AND 8/79. ER DETAILS,	HAM-75-3.84 PID No. 104667

	l	DEFLECTIO	N AND CAN	IBER (INCH	ES) – GIRD	)ER 2				
	© BRG. PIER 7	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1⁄4 POINT	FS1	1/2 POINT	3/4 POINT	© BRG. PIER 2
DEFLECTION DUE TO WEIGHT OF STEEL	0″	1/16′′	1/16″	-0 "	0″	1/8''	1/8″	3/16″	3/16''	0″
DEFLECTION DUE TO REMAINING DL	0″	1/4′′	1/4″	0 "	0''	9/16″	9/16″	1 3/16″	15/16″	0″
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0″	- 5/8″	- 13/16″	- 5/8″	0‴	-1 1/8''	-1 1/8''	-1 9/16''	-1 3/16″	0''
REQUIRED SHOP CAMBER	0″	- 5/16″	- 1/2″	- 5/8″	0″	- 7/16''	- 7/16″	- 3/16''	- 1/16''	0′′

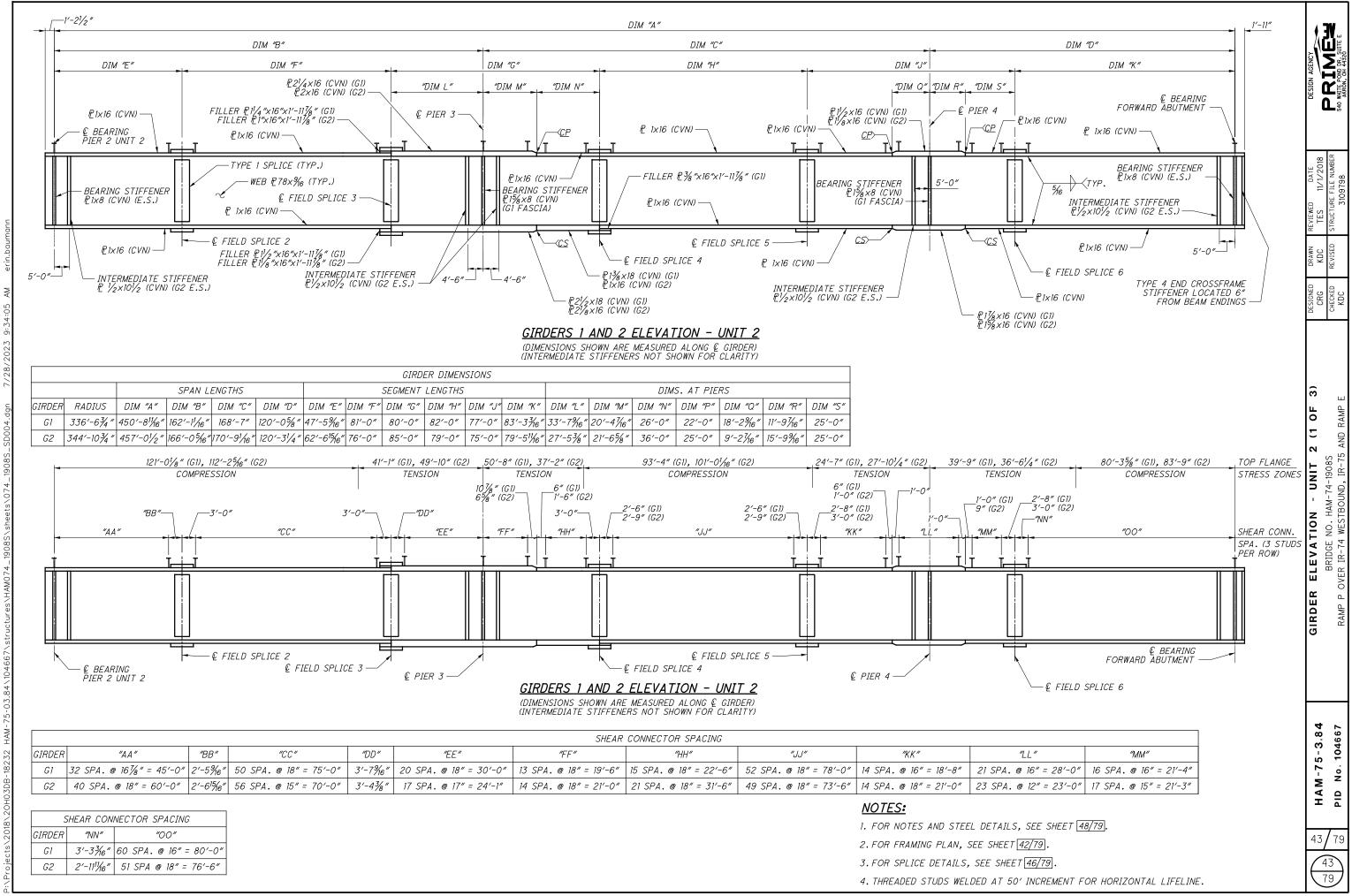
		DEFLECTIC	ON AND CAI	MBER (INCH	ES) -GIRD	ER 3				
	© BRG. PIER 7	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FS1	1/2 POINT	3/4 POINT	© BRG. PIER 2
DEFLECTION DUE TO WEIGHT OF STEEL	0''	1/16″	1/16″	0 "	0''	1/8′′	1/8″	3/16″	1/8″	0''
DEFLECTION DUE TO REMAINING DL	0″	1/4″	1/4″	1/16′′	0″	9/16″	9/16″	1 1/8″	15/16″	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0″	- 9/16''	- 3/4″	- 9/16″	0 ″	-1 1/16″	-1 1/8″	-1 7/16″	-1 1/8″	0′′
REQUIRED SHOP CAMBER	0″	- 1/4''	- 7/16″	- 1/2″	0″	- 3/8″	- 7/16″	- 1/8″	- 1/16''	0''

	l	DEFLECTIO	N AND CAN	IBER (INCH	ES) – GIRL	DER 4				
	© BRG. PIER 7	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FS1	1/2 POINT	3/4 POINT	© BRG. PIER 2
DEFLECTION DUE TO WEIGHT OF STEEL	0′′	1/16′′	1/16″	0 ″	0″	1/16′′	1/16″	3/16″	1/8″	0''
DEFLECTION DUE TO REMAINING DL	0′′	5/16″	5/16′′	1/16''	0″	1/2″	1/2″	1 1/16″	7/8″	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0''	- 3/4″	- 15/16″	- 11/16″	0 "	- 13/16''	- 13/16″	-1 1/16″	- 13/16″	0‴
REQUIRED SHOP CAMBER	0''	- 3/8″	- 9/16″	- 5/8″	0''	- 1/4''	- 1/4″	3/16″	3/16″	0''



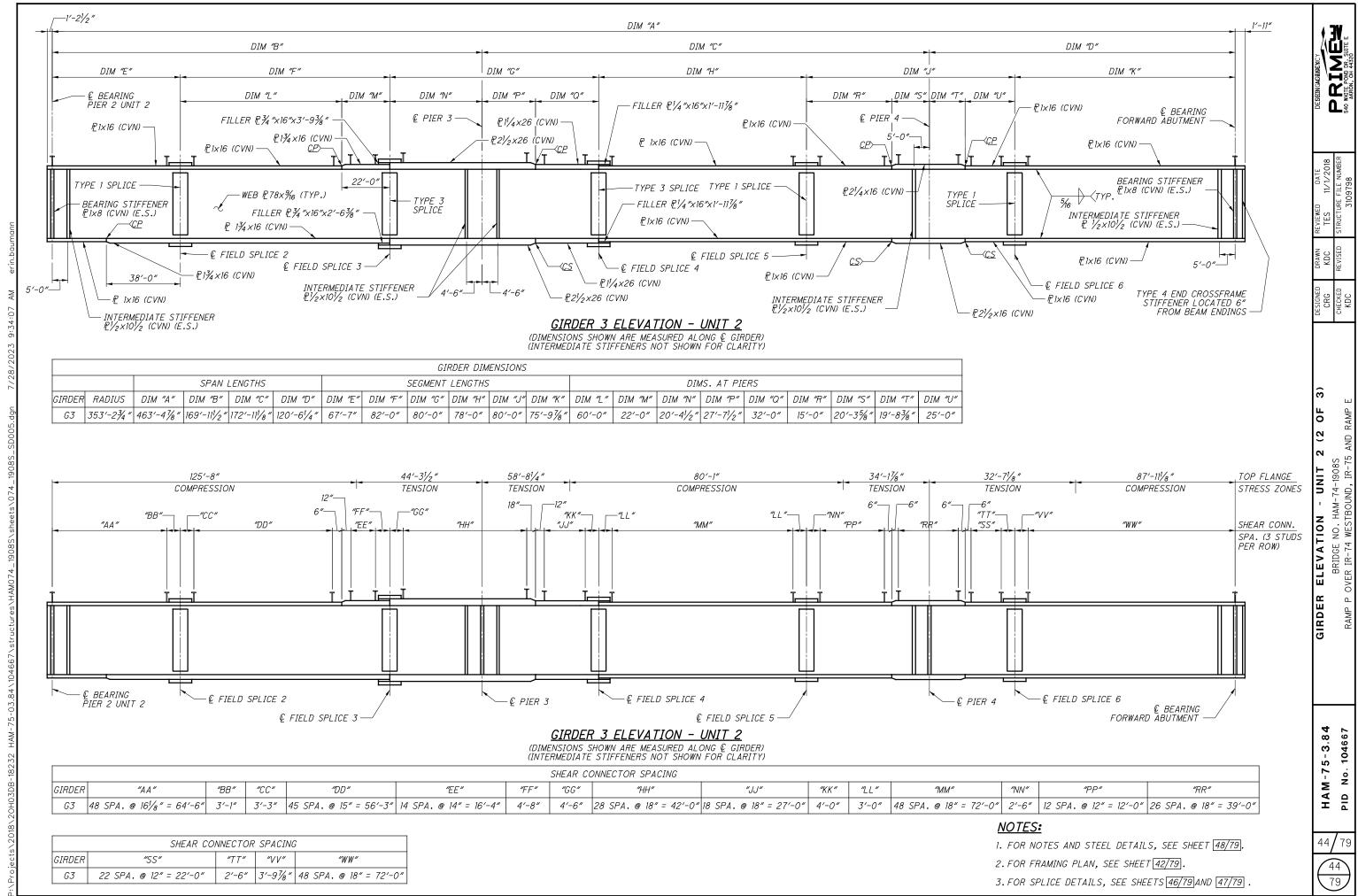
 $\bigcirc$ 

0



 $\bigcirc$ 

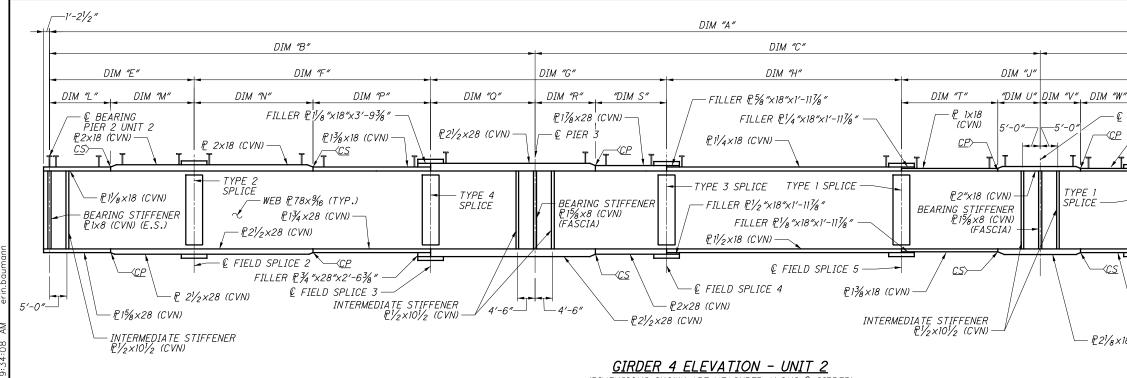
 $\bigcirc$ 



	SHEAR CO	NNECTOR	SPACINO	2
GIRDER	<i>"</i> SS <i>"</i>	<i>"TT"</i>	<i>"VV"</i>	<i>"</i> ₩₩ <i>"</i>
G3	22 SPA. @ 12" = 22'-0"	2′-6″	3′-97⁄8″	48 SPA. @ 18" = 72'-0"

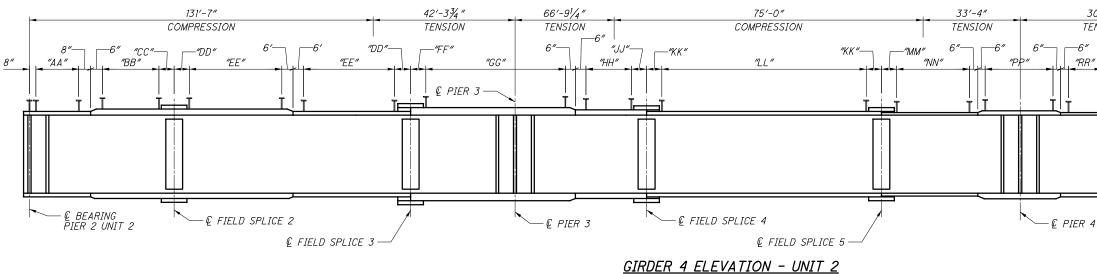
 $\bigcirc$ 

 $\bigcirc$ 



(DIMENSIONS SHOWN ARE MEASURED ALONG & GIRDER) (INTERMEDIATE STIFFENERS NOT SHOWN FOR CLARITY)

										GIR	PDER DIME	NSIONS									
			SPAN LE	ENGTHS				SEGMENT	LENGTHS	5						DIN	MS. AT PI	ERS			
GIRDER	RADIUS	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"	DIM "K"	DIM "L"	DIM "M"	DIM "N"	DIM "P"	DIM "Q"	DIM "R"	DIM "S"	DIM "T"	DIM "U"	DIM "V"
G4	361′-6¾″	469′-9½″	173′-105⁄8″	175′-1 <sup>1</sup> ⁄4″	120′-95⁄8″	64′-7″	80'-0"	80'-0"	87′-0″	83′-0″	75′-2 <sup>3</sup> ⁄8″	27′-8″	36′-11″	40′-0″	40'-0"	29′-3½″	30′-8 <sup>1</sup> /2″	20'-0"	23'-0″	14'-4¾"	25′-7 <sup>1</sup> ⁄4″



(DIMENSIONS SHOWN ARE MEASURED ALONG Q GIRDER) (INTERMEDIATE STIFFENERS NOT SHOWN FOR CLARITY)

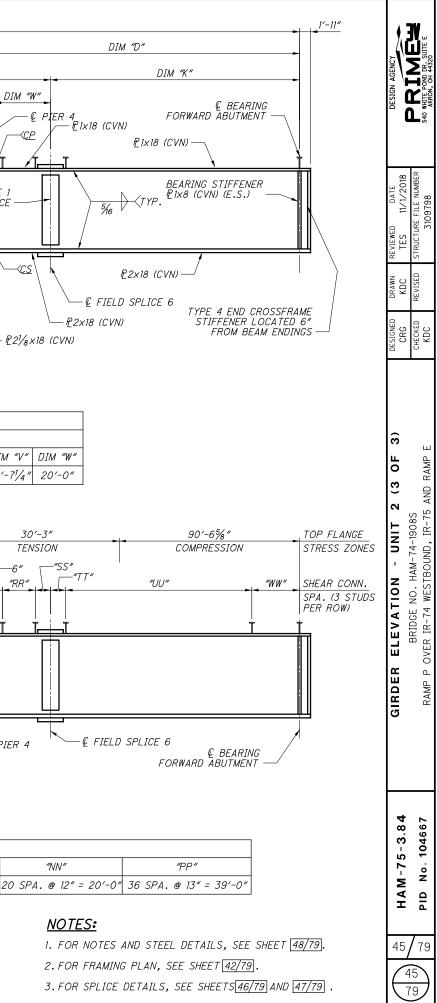
							SHEAR CONNEC	TOR SPACING					
GIRDER	° ″AA″	<i>"BB"</i>	<i>"CC"</i>	<i>"DD"</i>	"EE"	″FF″	<i>"GG"</i>	"HH"	"]]"	<i>"</i> KK <i>"</i>	<i>"LL"</i>	<i>"MM"</i>	
G4	27 SPA. @ 12" = 27'-0"	31 SPA. @ 12" = 31'-0"	4′-9″	4'-10"	26 SPA. @ 16" = 34'-8"	4'-10″	41 SPA. @ 16" = 54'-8"	12 SPA. @ 16" = 16'-0"	3′-6″	2'-10"	61 SPA. @ 16" = 81'-4"	2'-6″	20 SP.

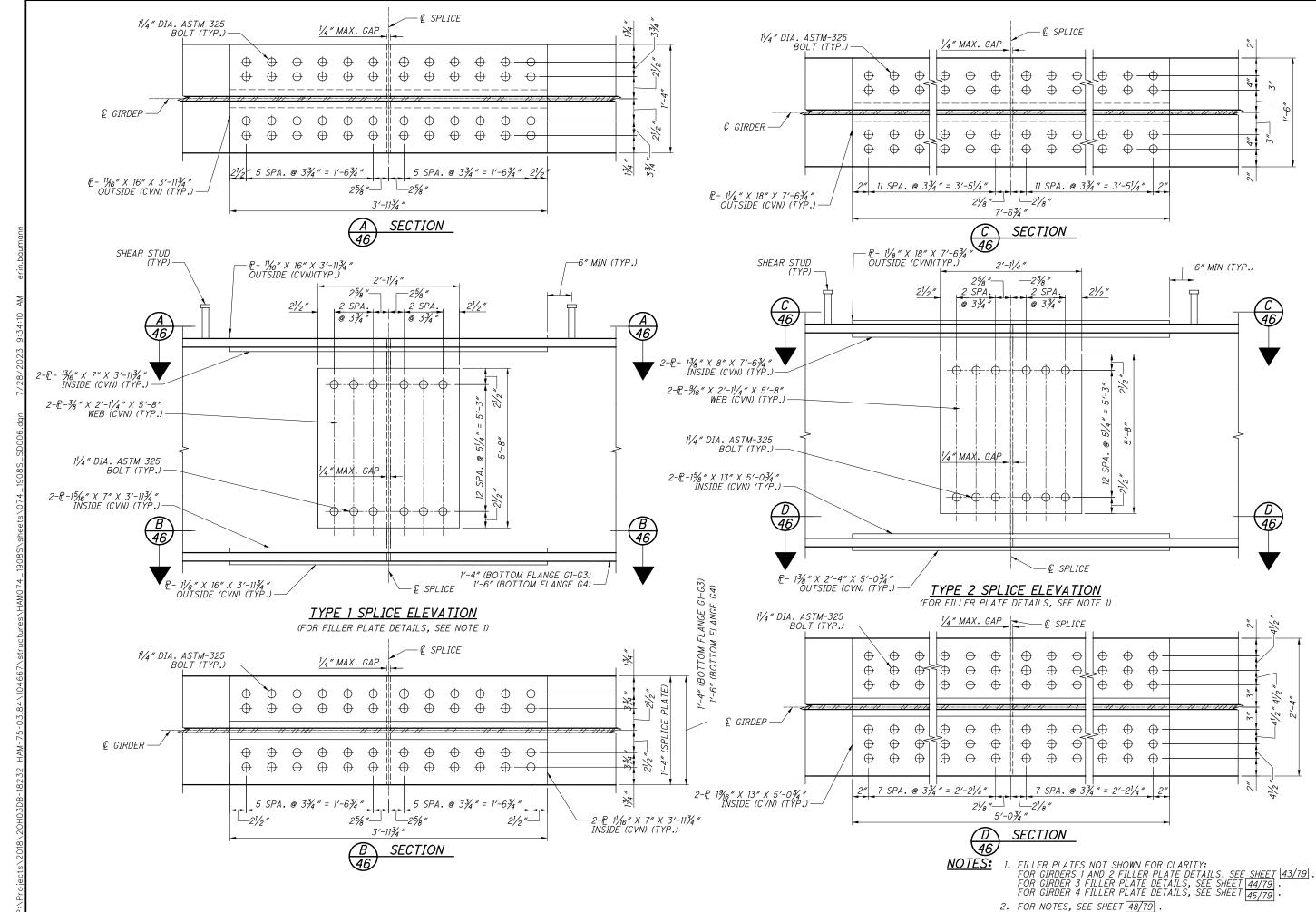
		SHEA	R CONNEC	CTOR SPACING	
GIRDER	"RR"	<i>"</i> SS"	<i>"TT"</i>	<i>"UU"</i>	<i>"</i> WW <i>"</i>
G4	13 SPA. @ 15" = 16'-3"	3′-3″	3′-2 <b>¾</b> ″	62 SPA. @ 12" = 62'-0"	12 SPA. @ 10" = 10'-0"

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

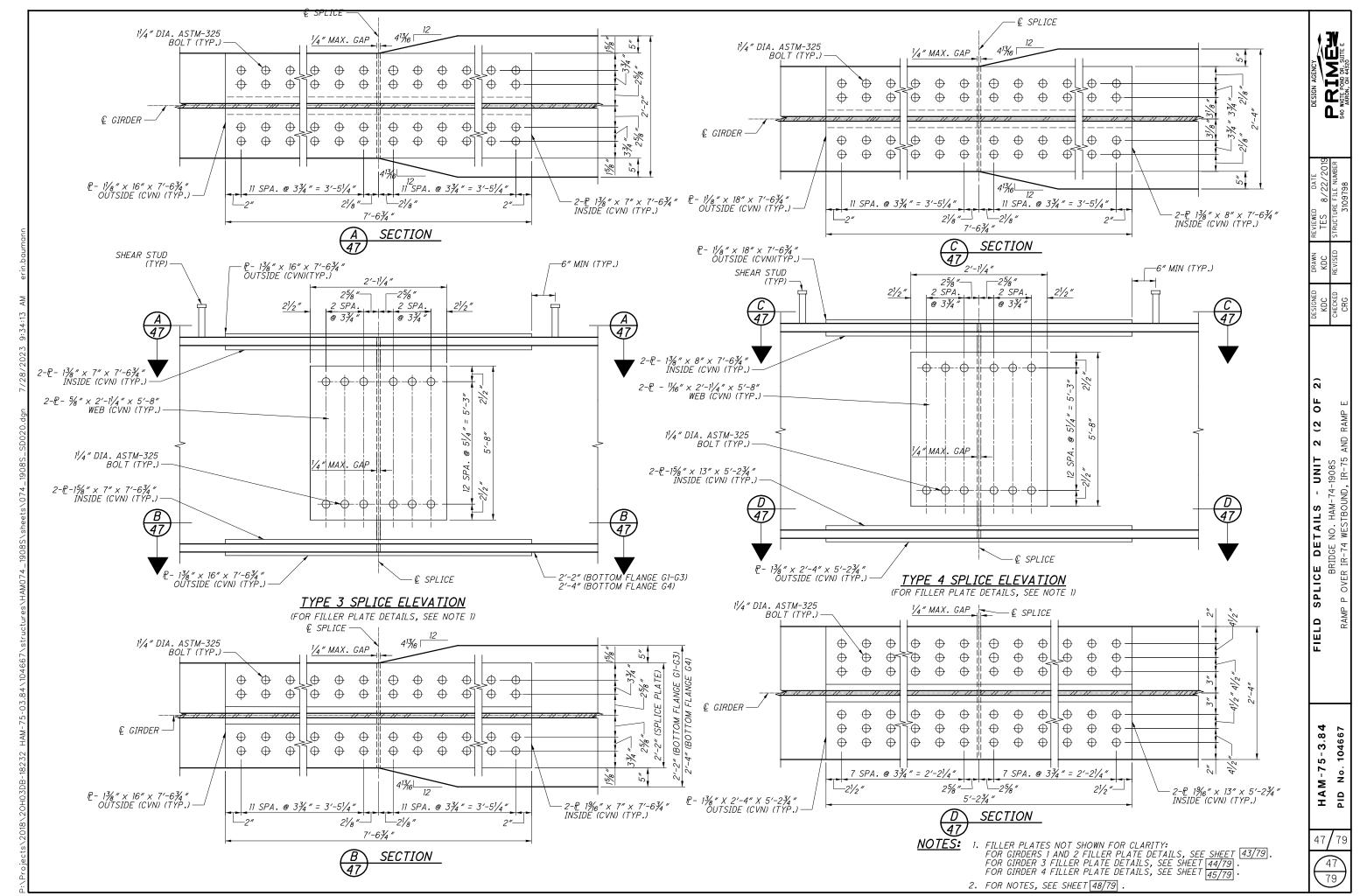




 $\bigcirc$ 

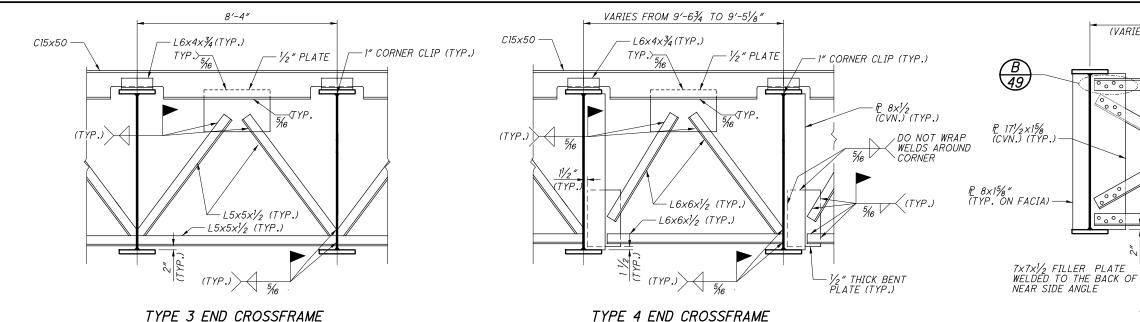
 $\bigcirc$ 

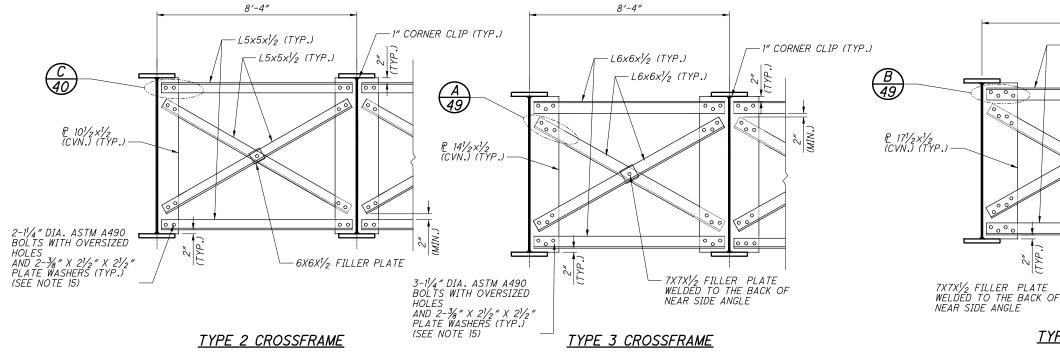
ESIGNED DRAWN REVIEWED DATE DESIGN AGENCY KDC KDC TES 8/22/2019	HECKED REVISED STRUCTURE FILE NUMBER <b>F.K.L.Z.T.K.</b>
	BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
HAM-75-3.84	PID No. 104667
46	79 16 79



 $\bigcirc$ 

0





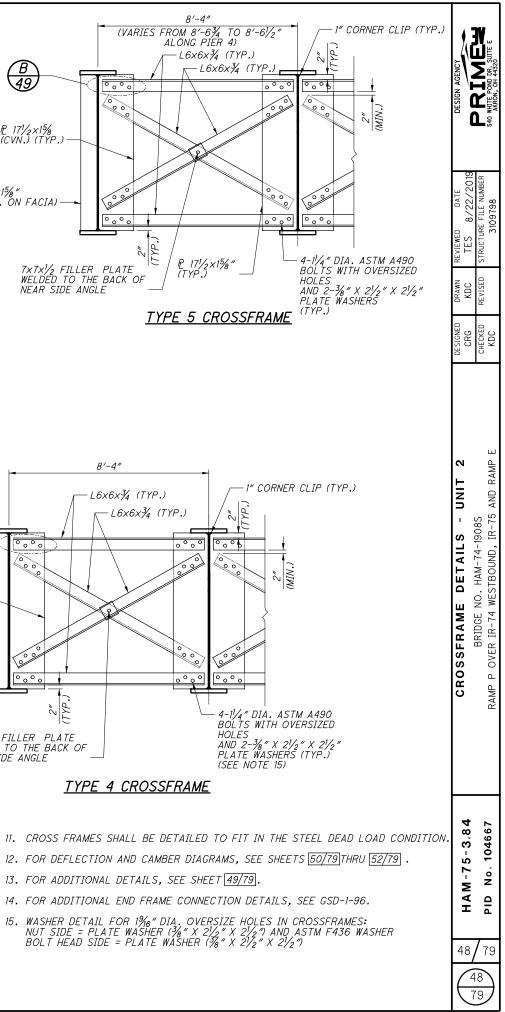
### NOTES:

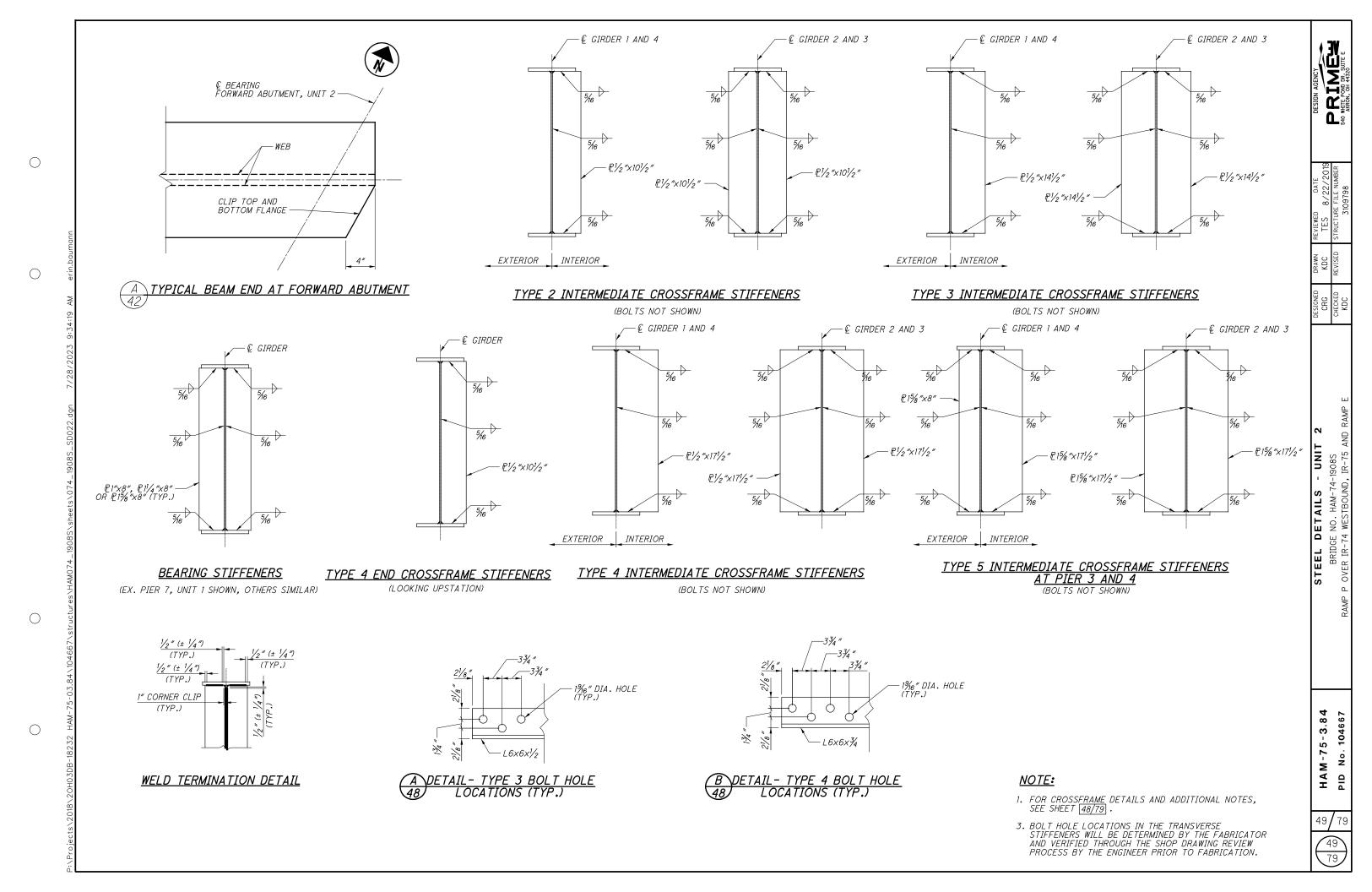
 $\bigcirc$ 

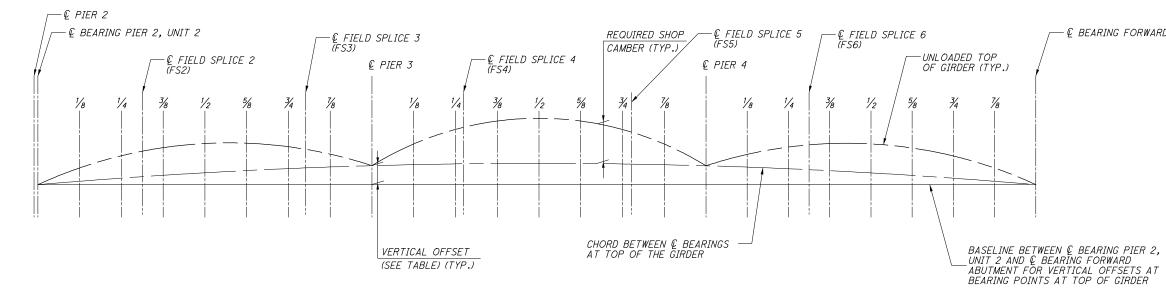
 $\bigcirc$ 

 $\bigcirc$ 

- 1. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50W, UNLESS NOTED OTHERWISE.
- 2. FOR GIRDER WEBS, FLANGES, BEARING AND INTERMEDIATE STIFFENERS, CROSSFRAMES AND SPLICES, FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN ITEM 711.01.
- 3. THE GIRDER ENDS AND ALL BEARING STIFFENERS SHALL BE VERTICAL UNDER FULL DEAD LOAD. INTERIOR CROSS FRAMES AND FIELD SPLICES MAY BE NORMAL TO GRADE.
- 4. BOLTS USED FOR SPLICES SHALL BE ASTM A325, TYPE 3 HIGH STRENGTH BOLTS. ALL OTHER BOLTS SHALL BE ASTM A490, TYPE 3 HIGH STRENGTH BOLTS.
- 5. FOR UNIT 2 FRAMING PLAN, SEE SHEET 42/79
- 6. THE OPENING BETWEEN GIRDER ENDS AFTER ASSEMBLY SHALL NOT EXCEED 1/4".
- 7. WELD ATTACHMENTS OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "COMPRESSION". WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 34" OR 56" FOR GREATER THAN 34".
- WHERE A WELDED BUTT JOINT IS DESIGNATED CP, THE WELD SHALL BE COMPLETE PENETRATION. WELD REINFORCEMENT SHALL BE REMOVED BY GRINDING IN THE DIRECTION OF THE MAIN STRESS. 8.
- 9. WHERE A WELDED BUTT JOINT WELD IS DESIGNATED CS, THE WELD IS SUBJECT TO COMPRESSIVE STRESS ONLY.
- 10. SHEAR STUD CONNECTORS SHALL BE WELDED PER ITEM 512.22.







CAMBER DIAGRAM - GIRDER 1 UNIT 2

							DEFL	ECTION AN	ND CAMBER	R (INCHES)	- GIRDER	1									
	€ BRG. PIER 2R	1/8 POINT	1/4 POINT	FS2	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	© BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS5	7/8 POINT	€ BRG. PIER 4
DEFLECTION DUE TO WEIGHT OF STEEL	0''	1/4′′	3/8''	7/16''	1/2″	1/2′′	3/8''	1/4''	3/16′′	1/8''	0′′	0 "	1/8′′	1/8′′	1/4″	5/16''	5/16''	3/16''	3/16''	1/16′′	0 "
DEFLECTION DUE TO REMAINING DL	0''	1 1/8''	1 15/16''	2 1/8''	2 3/8"	2 3/8''	1 7/8″	1 3/16''	15/16''	7/16''	0''	1/8''	5/8″	11/16′′	1 1/8''	1 7/16''	1 5/16''	7/8''	7/8''	3/8''	0 "
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0''	1 5/16''	2 15/16''	3 1/2''	4 3/4″	6 "	6 1/8''	5 3/16″	4 5/8″	3 1/8″	0''	4 1/8''	7 1/16″	8 7/8″	8 7/8″	9 7/16''	8 7/8''	7 1/16″	4 1/8''	4 1/8″	0‴
REQUIRED SHOP CAMBER	0''	2 11/16''	5 1/4''	6 1/16''	7 5/8''	8 7/8''	8 3/8"	6 5/8''	5 3/4"	3 11/16''	0''	4 1/4''	7 13/16''	9 11/16''	10 1/4''	11 3/16''	10 1/2"	8 1/8''	5 3/16''	4 9/16''	0''

			DEF	LECTION AND	CAMBER (INC)	HES) - GIRDER	1		-	
	€ BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	© BRG.FA
DEFLECTION DUE TO WEIGHT OF STEEL	0 "	0 "	1/16′′	1/8''	1/8''	3/16''	3/16''	3/16''	1/8''	0″
DEFLECTION DUE TO REMAINING DL	0 "	1/16′′	5/16''	1/2″	5/8''	13/16''	7/8''	3/4''	1/2''	0″
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0′′	9/16''	9/16″	7/16′′	7/16″	3/8''	1/4′′	3/16″	1/16''	0″
REQUIRED SHOP CAMBER	0''	5/8′′	15/16″	1 1/16″	1 3/16″	1 3/8′′	1 5/16''	1 1/8''	11/16′′	0‴

# <u>NOTES:</u>

2.	DEFL NEAF	
3.	FOR	GENE

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

- 🖉 BEARING FORWARD ABUTMENT

VERTICA	L OFFSET (I	NCHES)
	PIER 3	PIER 4
GIRDR 1	54 1/4''	42 1/4''

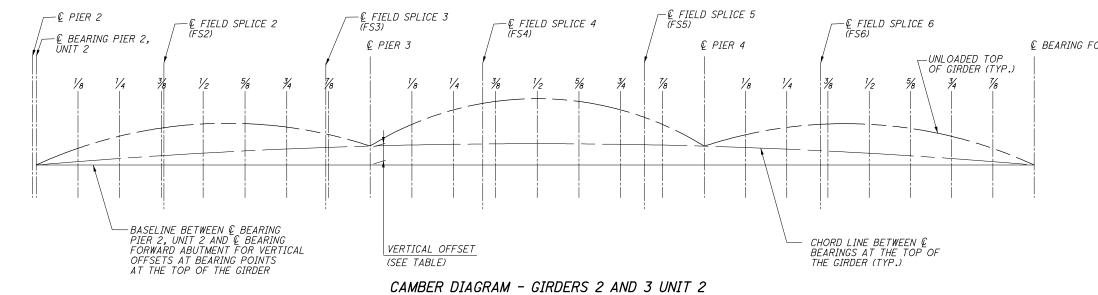
1. NEGATIVE VALUES FOR DEFLECTIONS INDICATE DEFLECTIONS UPWARD. NEGATIVE VALUES FOR VERTICAL CURVE ADJUSTMENT AND TOTAL REQUIRED SHOP CAMBER INDICATE VALUES BELOW THE CHORD.

> IONS AND ADJUSTMENTS FOR VERTICAL CURVES ARE GIVEN TO THE '¼₀th INCH.

VERAL NOTES, SEE SHEETS 7/79 AND 8/79.

4. FOR FRAMING PLAN AND GIRDER DETAILS, SEE SHEETS 37/79 THROUGH 42/79.

DESIGN AGENCY		540 WHITE POND DR. SUITE E AKRON, OH 44320
TES 8/22/2019	STRUCTURE FILE NUMBER	3109798
KDC	REVISED	
KDC	CHECKED	CRG
CAMBER DIAGRAM AND TABLE - UNIT 2 (1 OF	BRIDGE NO. HAM-14-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP I
HAM-75-3.84		PID N0. 104667
50 5	7-	'9 \
$\sqrt{7}$	9	ノ



							DEFL	ECTION AN	ND CAMBER	R (INCHES)	- GIRDER .	2									
	© BRG. PIER 2R	1/8 POINT	1/4 POINT	3/8 POINT	FS2	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	© BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS5	7/8 POINT	© BRG. PIER 4
DEFLECTION DUE TO WEIGHT OF STEEL	0''	7/16''	13/16''	1 1/16''	1 1/16''	1 "	13/16″	9/16''	5/16''	1/4''	0''	- 1/16″	- 1/16''	-0 ''	0 "	1/8''	1/8''	1/16′′	1/16''	0 "	0''
DEFLECTION DUE TO REMAINING DL	0''	1 1/2''	2 5/8″	3 9/16''	3 9/16''	3 1/4''	2 5/8''	15/8''	1 "	11/16′′	0''	- 1/16''	1/4″	9/16''	11/16''	1 "	1 "	11/16′′	1/2''	1/4''	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0″	1 11/16″	3 9/16''	5 5/16″	5 3/8''	6 7/16''	6 1/2''	5 7/16''	4 1/16''	3 1/4''	0′′	4 1/16''	6 15/16''	8 1/4''	8 11/16''	9 1/4''	8 11/16''	6 15/16''	5 15/16″	4 1/16''	0″
REQUIRED SHOP CAMBER	0''	3 5/8''	7 "	9 15/16''	10 "	10 11/16''	9 15/16''	7 5/8''	5 3/8"	4 3/16''	0''	3 15/16''	7 1/8''	8 13/16''	9 3/8''	10 3/8''	9 13/16''	7 11/16''	6 1/2"	4 5/16''	0''

			DEFL	ECTION A	ND CAMBER	(INCHES)	- GIRDER .	2		
	€ BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	€ BRG.FA
DEFLECTION DUE TO WEIGHT OF STEEL	0''	1/16′′	1/8''	3/16''	1/4″	5/16''	5/16''	1/4''	1/8''	0''
DEFLECTION DUE TO REMAINING DL	0''	1/8''	7/16''	1/2''	3/4''	1 "	1 "	7/8''	1/2''	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0''	5/8″	5/8″	9/16′′	9/16''	7/16''	5/16''	3/16''	1/8''	0 "
REQUIRED SHOP CAMBER	0''	13/16''	1 3/16''	1 1/4″	1 9/16''	1 3/4''	1 5/8″	1 5/16''	3/4''	0''

							DEFL	ECTION AN	ID CAMBER	R (INCHES)	- GIRDER	3									
	© BRG. PIER 2R	1/8 POINT	1/4 POINT	3/8 POINT	FS2	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	€ BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS5	7/8 POINT	€ BRG PIER ·
DEFLECTION DUE TO WEIGHT OF STEEL	0''	11/16′′	1 3/16''	1 1/2''	1 1/2″	1 1/2″	1 1/4''	13/16′′	3/8''	3/8''	0''	- 3/16''	- 1/4''	- 1/4''	- 3/16''	- 1/8''	- 1/16''	- 1/16''	- 1/16''	- 1/16''	0''
DEFLECTION DUE TO REMAINING DL	0''	1 15/16''	3 3/8"	4 1/8''	4 3/16''	4 1/8''	3 3/8''	2 3/16''	15/16′′	15/16′′	0''	- 5/16''	- 3/16''	1/16″	3/16''	9/16''	5/8″	7/16''	5/16′′	1/8″	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0′′	1 7/8″	4 "	5 11/16''	5 15/16''	6 3/4''	6 11/16''	5 9/16''	3 5/16''	3 5/16''	0‴	3 15/16''	6 3/4''	8 1/8''	8 1/2"	9 1/16''	8 7/16''	6 3/4″	5 7/8″	3 15/16''	0''
REQUIRED SHOP CAMBER	0''	4 1/2''	8 9/16''	11 5/16''	11 5/8″	12 3/8''	11 5/16''	8 9/16''	4 5/8''	4 5/8''	0″	3 7/16''	6 5/16''	7 15/16''	8 1/2"	9 1/2"	9 ''	7 1/8''	6 1/8''	4 ''	0''

			DEFL	ECTION A	ND CAMBER	(INCHES)	- GIRDER .	3		
	© BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	€ BRG.FA
DEFLECTION DUE TO WEIGHT OF STEEL	0''	1/8′′	3/16''	5/16′′	5/16′′	3/8''	3/8″	5/16′′	3/16''	0''
DEFLECTION DUE TO REMAINING DL	0''	3/16''	9/16''	7/8′′	7/8″	1 3/16''	1 1/8″	15/16′′	1/2''	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0′′	5/8″	3/4″	5/8′′	5/8″	1/2″	3/8''	1/4′′	1/8′′	0′′
REQUIRED SHOP CAMBER	0''	15/16''	1 1/2''	1 13/16''	1 13/16''	2 1/16''	1 7/8''	1 1/2″	13/16''	0''

<u>NOTES:</u>

2. DEFLECTIONS AND ADJUSTMENTS FOR VERTICAL CURVES ARE GIVEN TO THE NEAREST 1/6 th INCH.

3. FOR GENERAL NOTES, SEE SHEETS 7/79 AND 8/79.

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

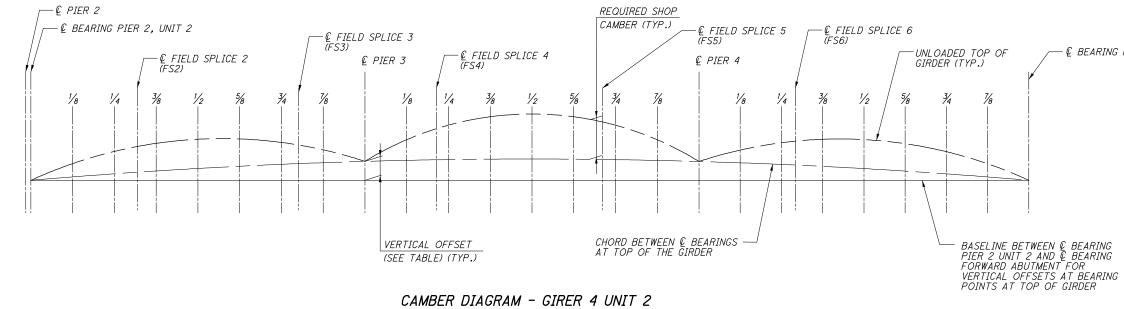
€ BEARING FORWARD ABUTMENT

VERTICA	L OFFSET (I	NCHES)
	PIER 3	PIER 4
GIRDR 2	54 1/4″	41 7/8″
GIRDR 3	54 ''	41 3/8''

1. NEGATIVE VALUES FOR DEFLECTIONS INDICATE DEFLECTIONS UPWARD. NEGATIVE VALUES FOR VERTICAL CURVE ADJUSTMENT AND TOTAL REQUIRED SHOP CAMBER INDICATE VALUES BELOW THE CHORD.

4. FOR FRAMING PLAN AND GIRDER DETAILS, SEE SHEETS 37/79 THROUGH 42/79.

5		CAMBER DIAGRAM AND TARIF - LINIT 2 (2 OF 3)	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
	HAM-75-3.84		KDC	KDC	TES 8/22/2019	
/ 51 79		BRIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320



							DEFL	ECTION AN	VD CAMBEF	R (INCHES)	- GIRDER	4									
	© BRG. PIER 2R	1/8 POINT	1/4 POINT	FS2	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	€ BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS5	7/8 POINT	€ BRG. PIER 4
DEFLECTION DUE TO WEIGHT OF STEEL	0''	15/16′′	15/8''	2 ''	2 "	2 1/16''	1 11/16''	1 3/16''	3/4''	9/16″	0''	- 5/16''	- 1/2''	- 1/2″	- 1/2''	- 3/8''	- 1/4''	- 3/16''	- 1/8''	- 1/8''	0''
DEFLECTION DUE TO REMAINING DL	0''	2 3/8''	4 1/8''	5 1/16″	5 1/8''	5 1/8″	4 3/16''	2 3/4"	1 11/16''	1 3/16''	0''	- 9/16''	- 5/8''	- 9/16''	- 5/16''	1/8″	5/16′′	3/16''	1/4''	-0 ''	0''
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0''	2 1/16''	4 5/16''	5 15/16″	6 1/16''	7 "	6 7/8''	5 11/16''	4 5/16''	3 3/8''	0''	3 7/8''	6 5/8″	7 1/8''	8 5/16''	8 13/16''	8 5/16''	6 5/8''	5 15/16″	3 7/8''	0''
REQUIRED SHOP CAMBER	0''	5 3/8''	10 1/16''	13 "	13 3/16''	14 3/16''	12 3/4''	9 5/8″	6 3/4"	5 1/8''	0''	3 "	5 1/2"	6 1/16''	7 1/2″	8 9/16''	8 3/8''	6 5/8''	6 1/16''	3 3/4"	0''

			DEFL	ECTION A	ND CAMBER	(INCHES)	- GIRDER	4		
	© BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	© BRG.FA
DEFLECTION DUE TO WEIGHT OF STEEL	0′′	1/8′′	5/16''	5/16′′	7/16″	1/2''	1/2''	3/8''	3/16''	0′′
DEFLECTION DUE TO REMAINING DL	0′′	5/16″	11/16′′	13/16′′	1 1/8''	1 3/8''	1 5/16''	1 1/16''	5/8″	0′′
ADJUSTMENT FOR VERTICAL & HORIZONTAL CURVE	0‴	11/16′′	13/16″	13/16''	11/16″	9/16''	7/16″	1/4″	1/8''	0''
REQUIRED SHOP CAMBER	0″	1 1/8''	1 13/16″	1 15/16″	2 1/4″	2 7/16''	2 1/4''	1 11/16''	15/16″	0''

## NOTES:

- INDICATE VALUES BELOW THE CHORD.
- NEAREST 1/16 th INCH.

4. FOR FRAMING PLAN AND GIRDER DETAILS, SEE SHEETS 37/79 THROUGH 42/79.

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

- & BEARING FORWARD ABUTMENT

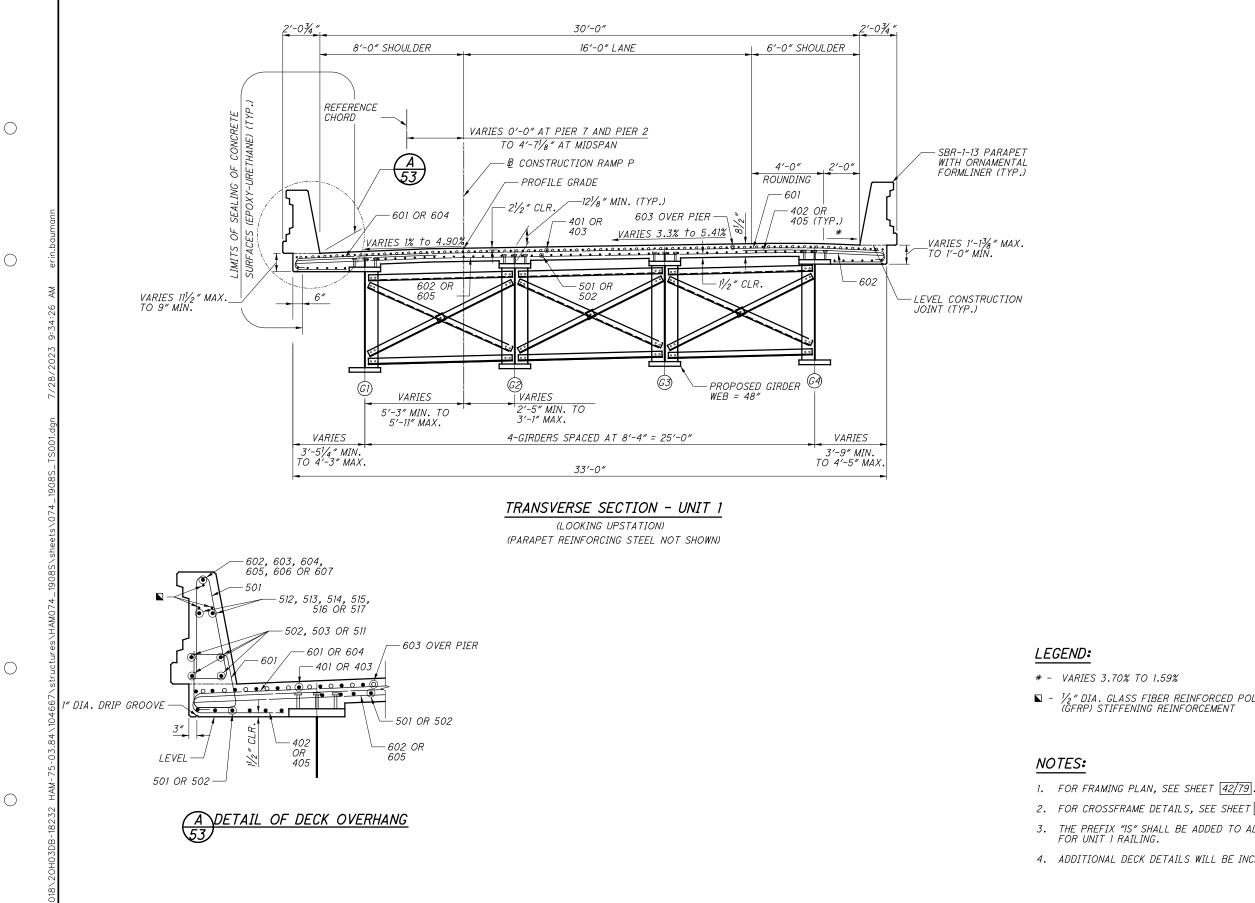
VERTICA	L OFFSET (I	NCHES)
	PIER 3	PIER 4
GIRDR 4	53 3/4″	40 7/8″

1. NEGATIVE VALUES FOR DEFLECTIONS INDICATE DEFLECTIONS UPWARD. NEGATIVE VALUES FOR VERTICAL CURVE ADJUSTMENT AND TOTAL REQUIRED SHOP CAMBER

2. DEFLECTIONS AND ADJUSTMENTS FOR VERTICAL CURVES ARE GIVEN TO THE

3. FOR GENERAL NOTES, SEE SHEETS 7/79 AND 8/79.

(	L)	$(\Sigma ) \rightarrow (\Sigma ) = (1) (1 - 2) (2 + 1) (1 + 1) (2 - 2) (2 - 2)$	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
	2 HAM-75-3.84	UIAGRAM ANU LADLE	KDC	KDC	TES 8/22/2019	
57			)	2		
29	<i>,</i>	BKIDGE NO. HAM- 14-19085	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320



 $\bigcirc$ 

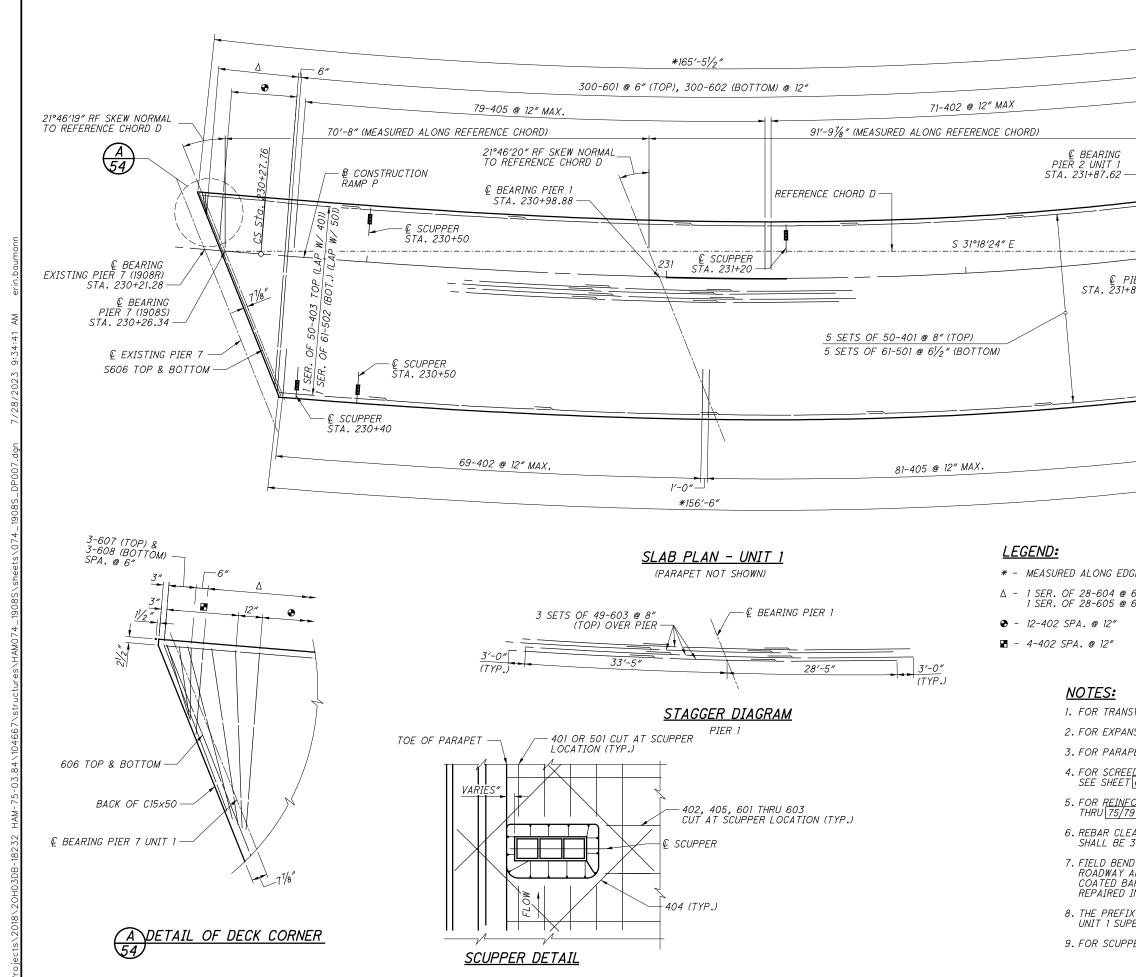
5		TRANSVERSE SECTION - UNIT 1	DESIGNED	DRAWN	DESIGNED DRAWN REVIEWED DATE	DESIGN AGENCY
3/ 5 7	HAM - / 5 - 3.84		CRG	CRG	TES 8/22/2019	
39		BKIUGE NO. HAM-14-13085	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	KDC		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320

■ - ½‴ DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT

2. FOR CROSSFRAME DETAILS, SEE SHEET 48/79.

3. THE PREFIX "IS" SHALL BE ADDED TO ALL BAR MARKS FOR UNIT 1 SLAB AND "IR" FOR UNIT 1 RAILING.

4. ADDITIONAL DECK DETAILS WILL BE INCLUDED IN BU-07.

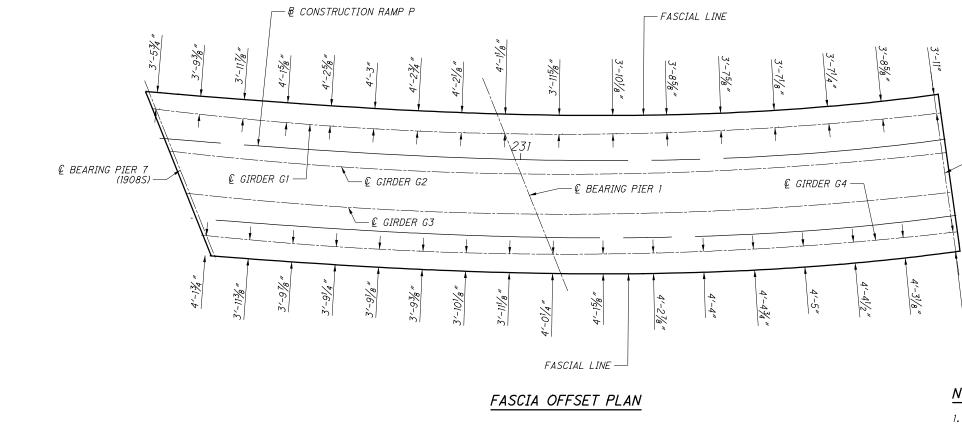


 $\bigcirc$ 

 $\bigcirc$ 

	DESIGN AGENCY PRINCE 540 WHITE POIND DR. SUITE E ARRON, OH 4320
07°54'II" RF SKEW NORMAL TO REFERENCE CHORD D 33-0" 10UT PIER 2 1034"	DESIGNED DRAWN REVIEWED DATE CRG KDC TES 8/22/2019 CHECKED REVISED STRUCTURE FILE NUMBER KDC 3109798
EDGE OF SLAB       MIN. REQUIRED LAP LENGTH #4 LONGITUDINAL 1'-11" #5 LONGITUDINAL 3'-0" #6 LONGITUDINAL 3'-7"         @ 6" (TOP), @ 6" (BOTTOM)       #5 LONGITUDINAL 3'-7"         ANSVERSE SECTION, SEE SHEET [53/79].         PANSION JOINT DETAIL, SEE SHEET [63/79].         RAPET DETAILS, SEE SHEET [57/79] THRU [57/79].	SLAB PLAN-UNIT 1 BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
REE <u>D, TOP</u> OF HAUNCH AND FINAL DECK ELEVATIONS, ET <u>66/79</u> . NFORCING STEEL LIST, SEE SHEETS <u>74/79</u> 79. CLEARANCE MEASURED TO THE FACE OF CONCRETE BE 3" UNLESS OTHERWISE NOTED. END LONGITUDINAL BARS TO FIT CURVATURE OF Y AND TRANSVERSE BARS TO FIT CROWN. EPOXY BARS DAMAGED BY FIELD BENDING SHALL BE TO IN ACCORDANCE WITH CMS 509.	HAM-75-3.84 PID No. 104667
FIX "IS" SHALL BE ADDED TO ALL BAR MARKS IN SUPERSTRUCTURE. JPPER DETAILS, SEE STD. DWG. GSD-1-96.	54/79 54/79

UNIT 1	DECK OVERH	IANG
LOCATION	LEFT OVERHANG	RIGHT OVERHANG
€ BEARING PIER 7	3′-5 <u>¾</u> ″	4'-1¾"
1/8	3′-9 <u>¾</u> ″	3′-11¾″
1/4	3′-117⁄8″	3'-97/8"
3/8	4'-15/8"	3'-91/4"
1/2	4'-25/8"	3′-91⁄8″
5/8	4'-3"	3′-9¾″
3/4	4'-2 <b>¾</b> ″	3'-101/8"
7/8	4'-2 <sup>1</sup> /8"	3′-11 <sup>1</sup> ⁄8″
€ BEARING PIER 1	4′-1 <sup>1</sup> /8″	4'-1/4"
1/8	3'-115/8"	4'-15%"
1/4	3′-10 <sup>1</sup> /8″	4'-27/8"
3/8	3'-85/8"	4'-4"
1/2	3'-75/8"	4'-43/4 "
5/8	3′-7 <sup>1</sup> ⁄8″	4'-5"
3/4	3'-71/4"	4'-41/2"
7/8	3'-85/8"	4′-3½″
© BEARING PIER 2, UNIT 1	3′-11″	4'-7/8"



 $\bigcirc$ 

0

DESIGN A			540 WHITE POND DR. SUITE E AKRON, OH 44320
REVIEWED DATE	IE> 8/22/2019	STRUCTURE FILE NUMBER	3109798
DRAWN	CRG	REVISED	
DESIGNED	CRG	CHECKED	KDC
DECK OVERHANG TABLE - UNIT 1		BKIDGE NO. HAM-74-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
U A M - 76 - 2 6 4	40°7_0/_MAU		PID No. 104667
5	5/57	5	79 )

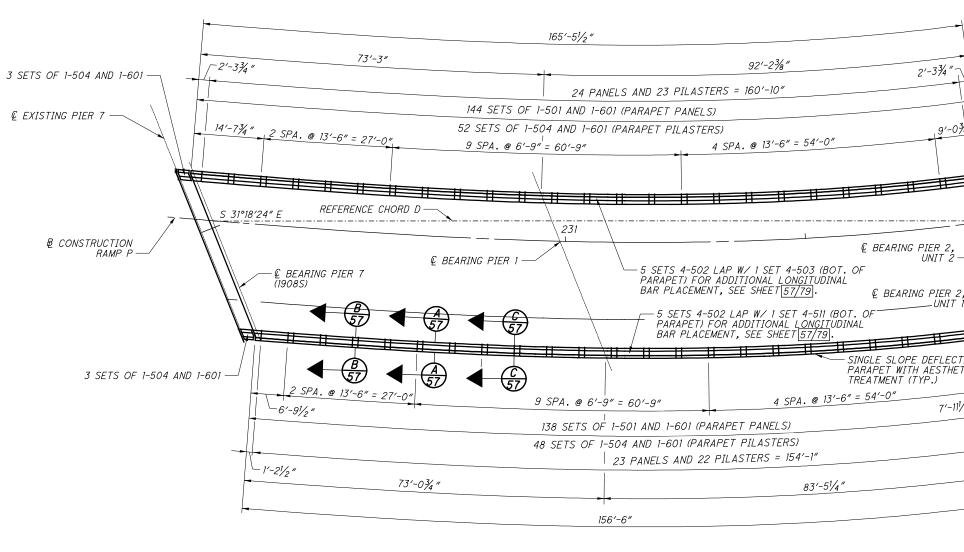
-∉ BEARING PIER 2, UNIT 1

4'-01/8"

## NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 54/79 .

PARAPET PLAN - UNIT 1

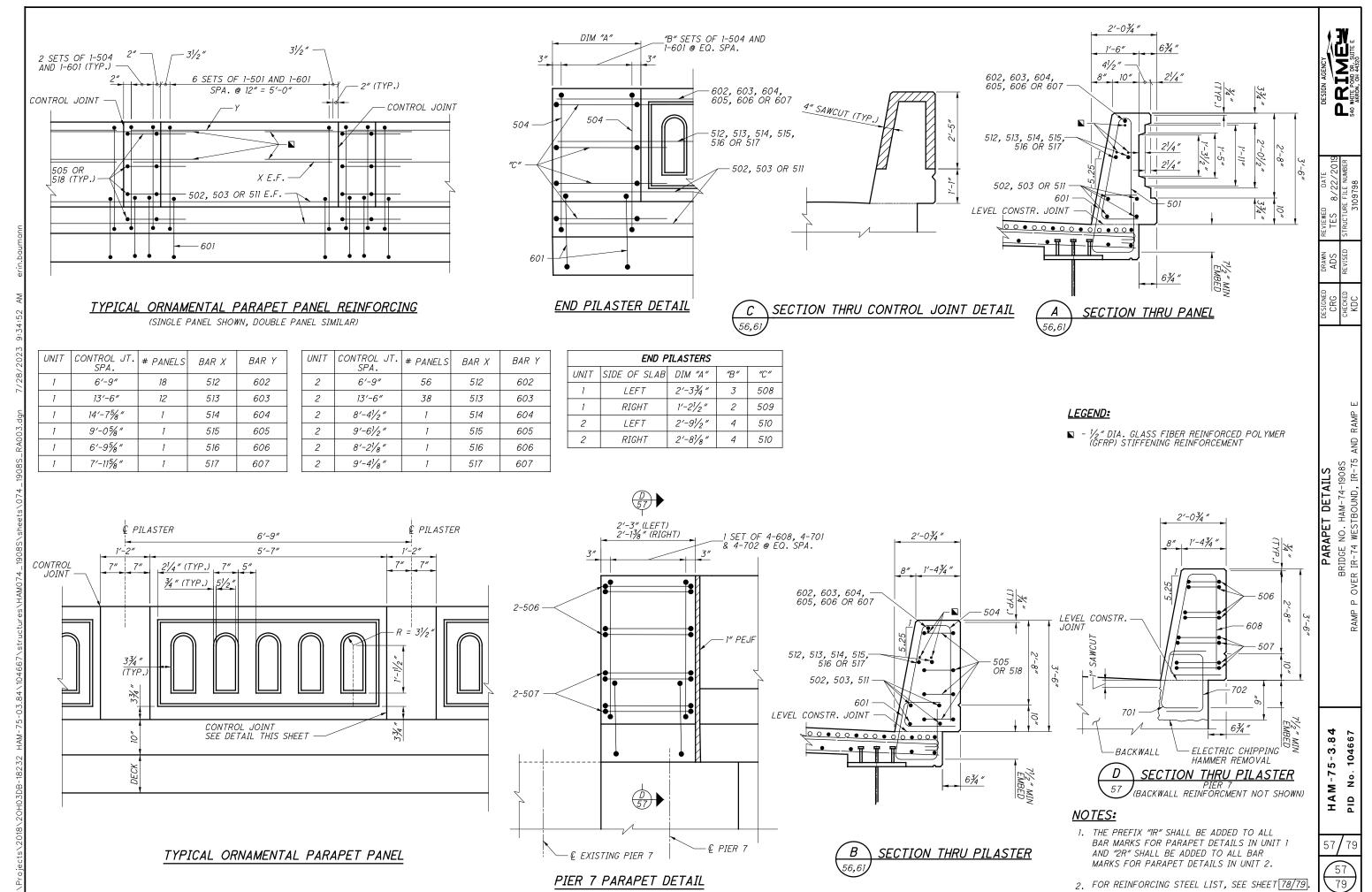


REQUIRED MINIMUM LAP LENGTHSNO. 5 BAR2'-3"NO. 6 BAR3'-6"

## $\bigcirc$

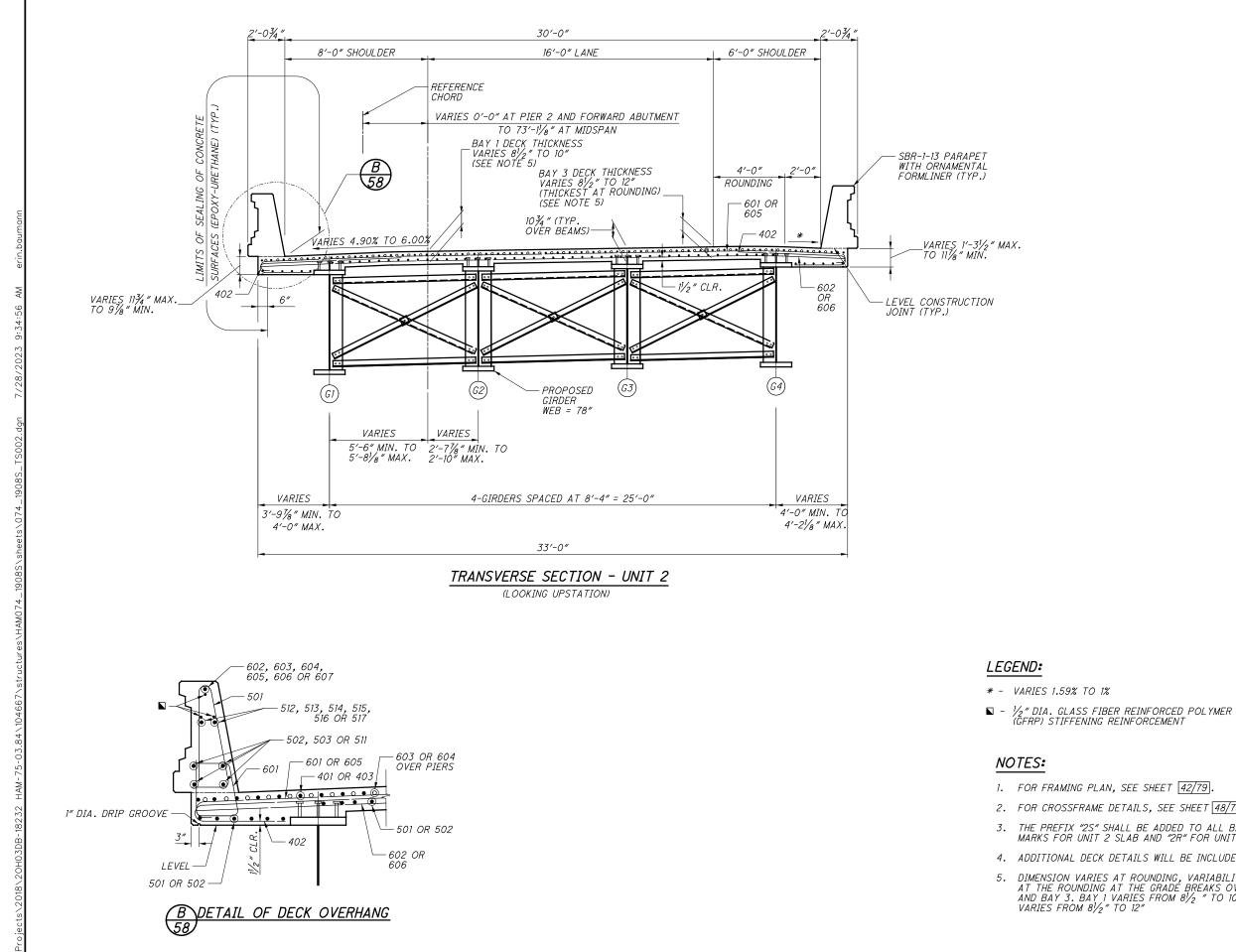
0

	DESIGN AGENCY <b>PRINCE</b> 540 MHTE POUD DR. SUITE E ARRON, OH 4420
PANEL SPACING 34 " CONTROL JOINT SPACING SPACING Q PIER 2	DESIGNED DRAWN REVIEWED DATE CRG ADS TES 8/22/2019 CHECKED REVISED STRUCTURE FILE NUMBER KDC 3109798
2 2 TION TIC CONTROL JOINT SPACING 1'-21/2" PANEL SPACING	PARAPET AND MEDIAN BARRIER PLAN - UNIT 1 BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
<b>NOTES:</b> 1. SEE SHEET <u>57/79</u> FOR PARAPET DETAILS.	HAM-75-3.84 PID No. 104667
<ol> <li>ALL DIMENSIONS ALONG EDGE OF SLAB UNLESS NOTED OTHERWISE.</li> <li>THE PREFIX "IR" SHALL BE ADDED TO ALL BAR MARKS FOR PARAPET DETAILS.</li> <li>FOR REINFORCING STEEL LIST, SEE SHEET [78/79].</li> </ol>	56/79 56/79 79



 $\bigcirc$ 

 $\bigcirc$ 



 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

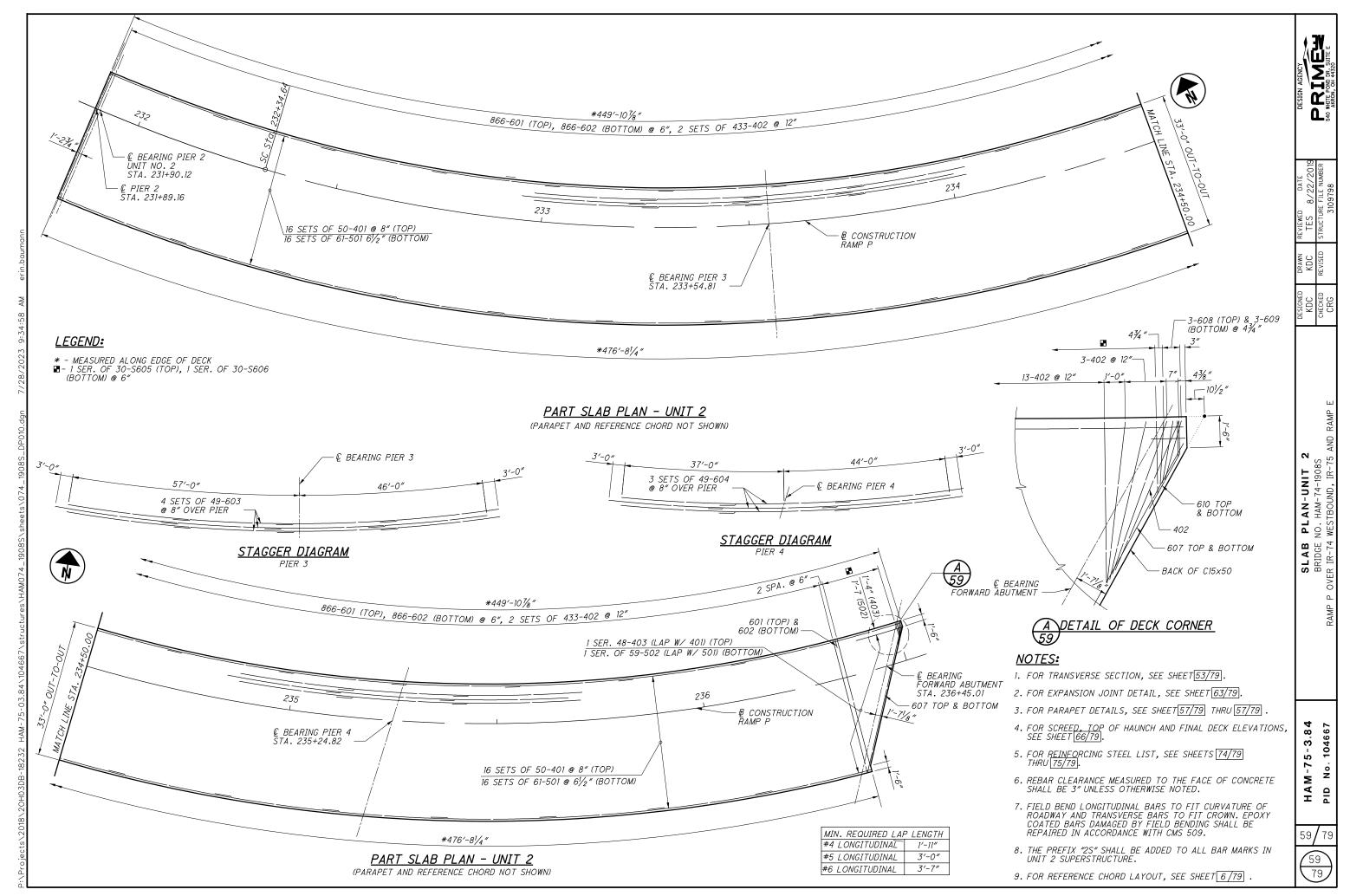
(		TINIT - NOLTOSE SECTION - TINIT O	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
58 (5) (7)	HAM-75-3.84	י ני	CRG	CRG	TES 8/22/2019	
/- 58 '9		BRIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	KDC	_	3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320

2. FOR CROSSFRAME DETAILS, SEE SHEET 48/79

3. THE PREFIX "2S" SHALL BE ADDED TO ALL BAR MARKS FOR UNIT 2 SLAB AND "2R" FOR UNIT 2 RAILING.

4. ADDITIONAL DECK DETAILS WILL BE INCLUDED IN BU-07.

5. DIMENSION VARIES AT ROUNDING, VARIABILITY IS THICKEST AT THE ROUNDING AT THE GRADE BREAKS OVER BAY 1 AND BAY 3. BAY 1 VARIES FROM  $8\frac{1}{2}$  " TO 10" THICK, BAY 3 VARIES FROM  $8\frac{1}{2}$ " TO 12"

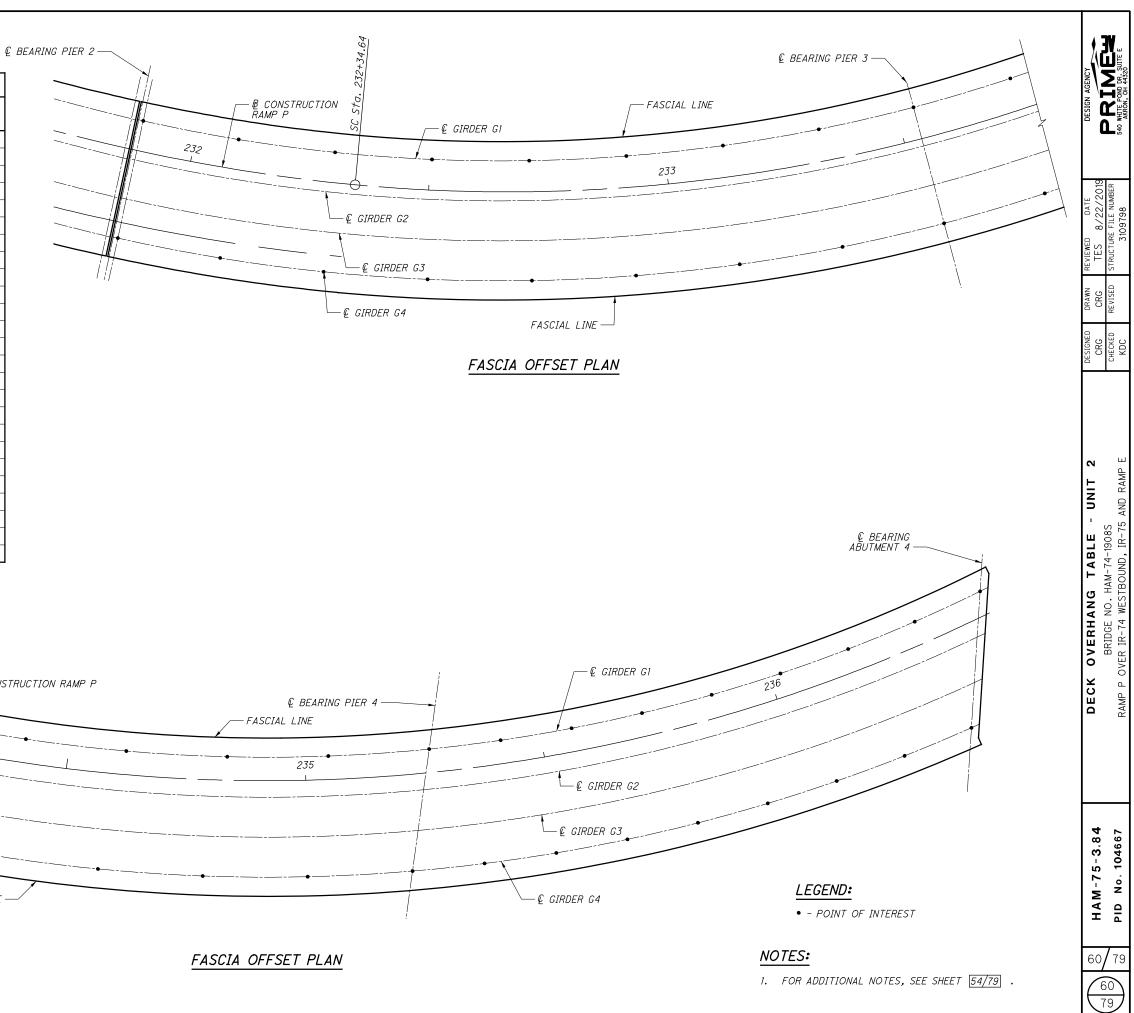


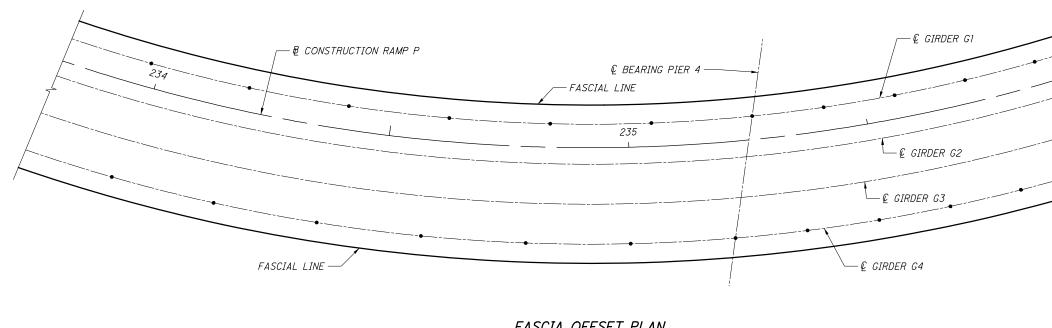
0

 $\bigcirc$ 

 $\bigcirc$ 

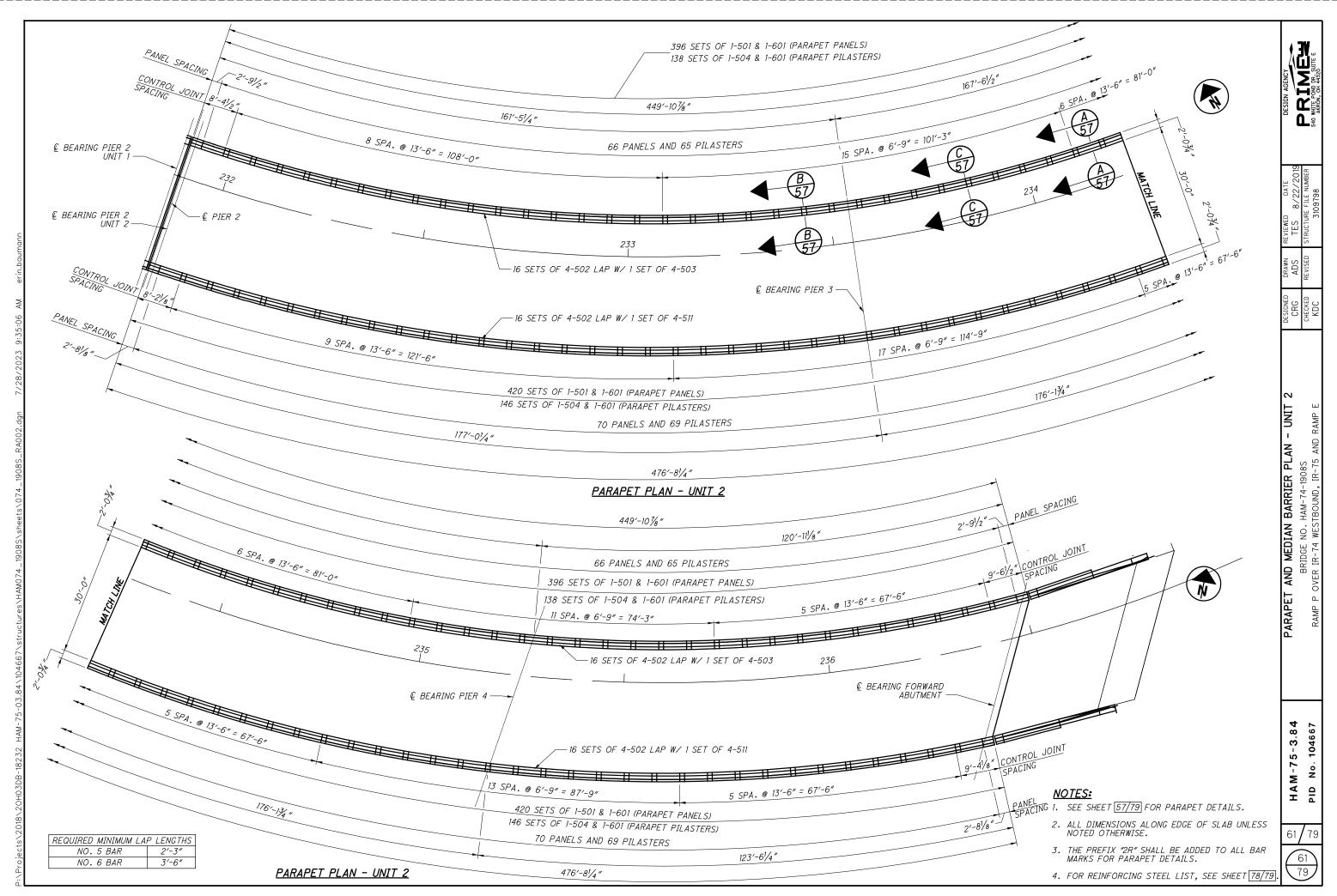
UNIT 2 DECK OVERHANG		
LOCATION	LEFT OVERHANG	RIGHT OVERHAN
€ BEARING PIER 2, UNIT 2	3'-9¾ ″	4'-21/8"
1/8	3′-10¾″	4'-03%"
1/4	3'-11¾"	3′-117⁄8″
3/8	4'-0"	4'-0"
1/2	4'-0"	4'-0"
5/8	4'-0"	4'-0"
3/4	4'-0"	4'-0"
7/8	4'-0"	4'-0"
€ BEARING PIER 3	4'-0"	4'-0"
1/8	4'-0"	4'-0"
1/4	4'-0"	4'-0"
3/8	4'-0"	4'-0"
1/2	4'-0"	4'-0"
5/8	4'-0"	4'-0"
3/4	4'-0"	4'-0"
7/8	4'-0"	4'-0"
€ BEARING PIER 4	4'-0"	4'-0"
1/8	4'-0"	4'-0"
1/4	4'-0"	4'-0"
3/8	4'-0"	4'-0"
1/2	4'-0″	4'-0"
5/8	4'-0″	4'-0"
3/4	4'-0"	4'-0"
7/8	4'-0"	4'-0"
🛿 BEARING FWD. ABUTMENT	4'-0"	4'-0"





 $\bigcirc$ 

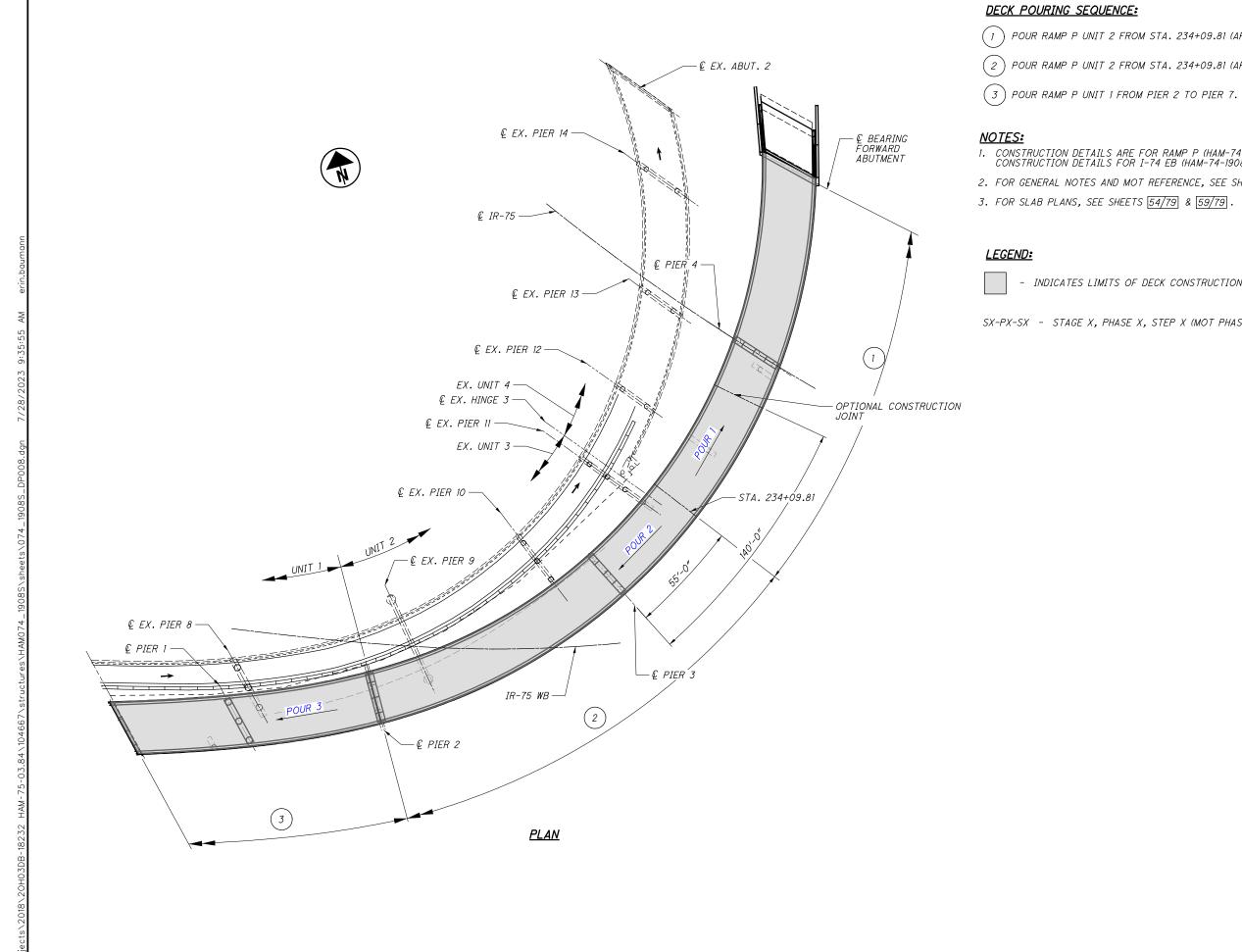
 $\bigcirc$ 



0

0

 $\bigcirc$ 



 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

POUR RAMP P UNIT 2 FROM STA. 234+09.81 (APPROX. FS4) TO FORWARD ABUTMENT.

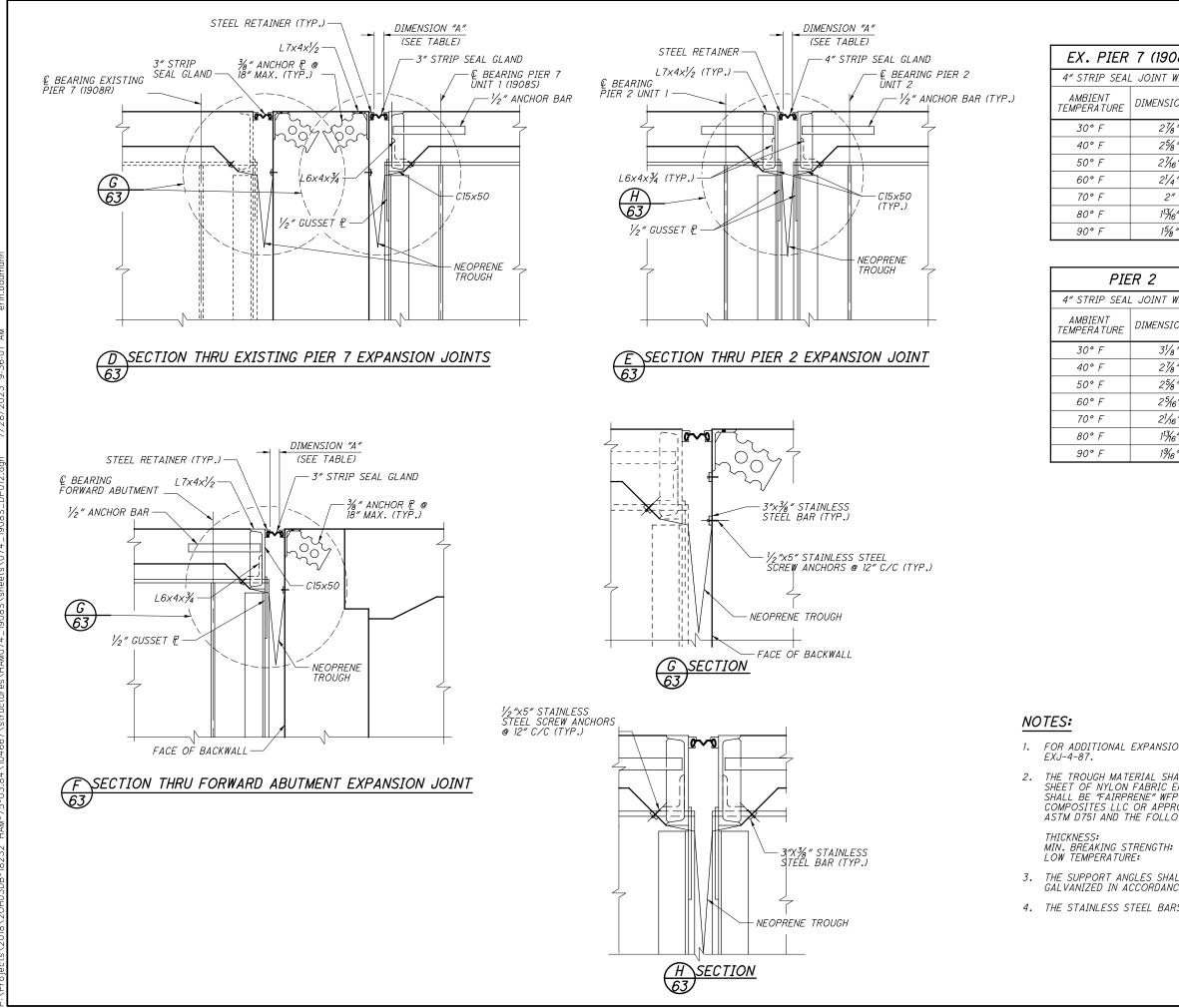
(2) POUR RAMP P UNIT 2 FROM STA. 234+09.81 (APPROX. FS4) TO PIER 2.

1. CONSTRUCTION DETAILS ARE FOR RAMP P (HAM-74-1908S) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR I-74 EB (HAM-74-1908R), SEE BU-10. 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 7/79 AND 8/79.

- INDICATES LIMITS OF DECK CONSTRUCTION (S1-P2-S2)

SX-PX-SX - STAGE X, PHASE X, STEP X (MOT PHASING)

DECK POURING SEQUENCE     DESIGNED DRAWN     REVIEWED DATE       BRIDGE NO. HAM-74-1908S     CRG     TES     8/22/201       RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E     KDC     3109798	ECK     POURING     SEQUENCE     DESIGNED     DRAWN     REVIEWED       BRIDGE     NO. HAM-74-1908S     CHC     TES     8       OVER IR-74     WESTBOUND, IR-75     AND     RAMP     5100
DECK POURING     SEQUENCE     DESIGNED       BRIDGE NO. HAM-74-1908S     CRG       RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E     CHECKED	Deck Pouring Sequence     Deck Pouring Sequence     Designed Designed CRG       BRIDGE NO. HAM-74-1908S     CHECKED     CHECKED       BID No. 104667     RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E     KDC
DECK POURING SEQUENCE BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	DECK POURING SEQUENCE       DECK POURING SEQUENCE       BRIDGE NO. HAM-74-1908S       PID No. 104667     RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
DECK POURING BRIDGE NO. HAM-7 RAMP P OVER IR-74 WESTBOUN	0     0     DECK POURING       0     0     BRIDGE NO. HAM-7       0     0     104667       0     RAMP P OVER IR-74 WESTBOUN
<b>+</b> .	62/79



 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

TER         T         (1908R)           SEAL         JOINT WIDTH           JRE         DIMENSION "A"           2%"         2%"           2%"         2%"           2%"         2%"           1%"         1%"		
DIMENSION "A" 2%" 2%" 2%" 2%" 2%" 2%" 2%" 2%	IER	7 (1908R)
2 % " 2 % " 2 ½ " 2 ¼ " 2 ¼ " 2 ¼ " 2 ¼ "	SEAL	JOINT WIDTH
2%" 2¼6" 2¼6" 2¼4" 2" 1¼6"	- URE	DIMENSION "A"
21/6" 21/4" 21/4" 113/6"		21/8″
21/4 " 2"/4 " 113/6 "		25/8″
2" 1 <sup>1</sup> ¾6"		21/16″
113/16″		21/4 "
,,,,,		2″
15⁄8 ″		1 <sup>13</sup> /16″
		15⁄8 ″

PIER 7	' UNIT 1
3" STRIP SEAL	JOINT WIDTH
AMBIENT TEMPERATURE	DIMENSION "A"
30° F	1 <sup>15</sup> /16″
40° F	17/8″
50° F	1 <sup>13</sup> /16″
60° F	13/4 "
70° F	111/16″
80° F	15⁄8 ″
90° F	1%6″

PIE	TR 2
SEAL	JOINT WIDTH
r URE	DIMENSION "A"
	3½ <i>8</i> ″
	21/8″
	25/8 ″
	25/16″
	2 <sup>1</sup> /16″
	1 <sup>13</sup> /16″
	19 <u>/16</u> ″

FORWARD	ABUTMENT					
3" STRIP SEAL	JOINT WIDTH					
AMBIENT TEMPERATURE	DIMENSION "A"					
30° F	27/16″					
40° F	21/4 "					
50° F	21/8″					
60° F	1 <sup>15</sup> /16″					
70° F	1 <sup>13</sup> /16″					
80° F	1 <sup>5</sup> ⁄8″					
90° F	11/2 "					

1. FOR ADDITIONAL EXPANSION JOINT DETAILS, SEE STANDARD DRAWING

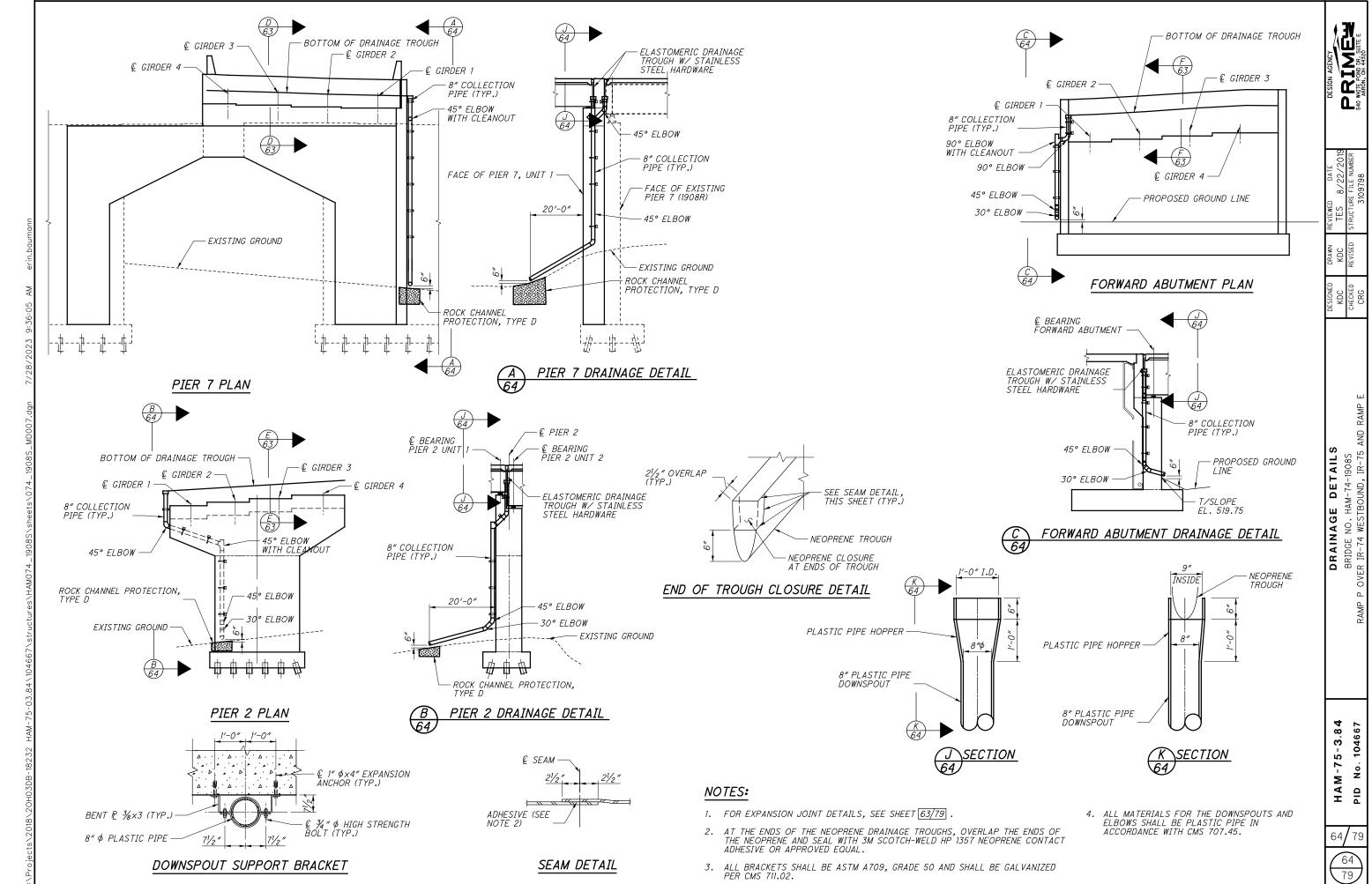
2. THE TROUGH MATERIAL SHALL BE  $\frac{3}{32}$ " THICK, HEAVY DUTY ELASTOMERIC SHEET OF NYLON FABRIC ENCASED IN A NEOPRENE POLYMER. THE MATERIAL SHALL BE "FAIRPRENE" WFP-N2N4 AS MANUFACTURED BY ALPHA ENGINEERING COMPOSITES LLC OR APPROVED EQUAL. THE MATERIAL SHALL CONFORM TO ASTM D751 AND THE FOLLOWING:

0.093 INCH ± 0.01 INCH 650 LBS × 650 LBS ASTM D2136

3. THE SUPPORT ANGLES SHALL BE ASTM A709, GRADE 50 AND SHALL BE GALVANIZED IN ACCORDANCE WITH CMS 711.02.

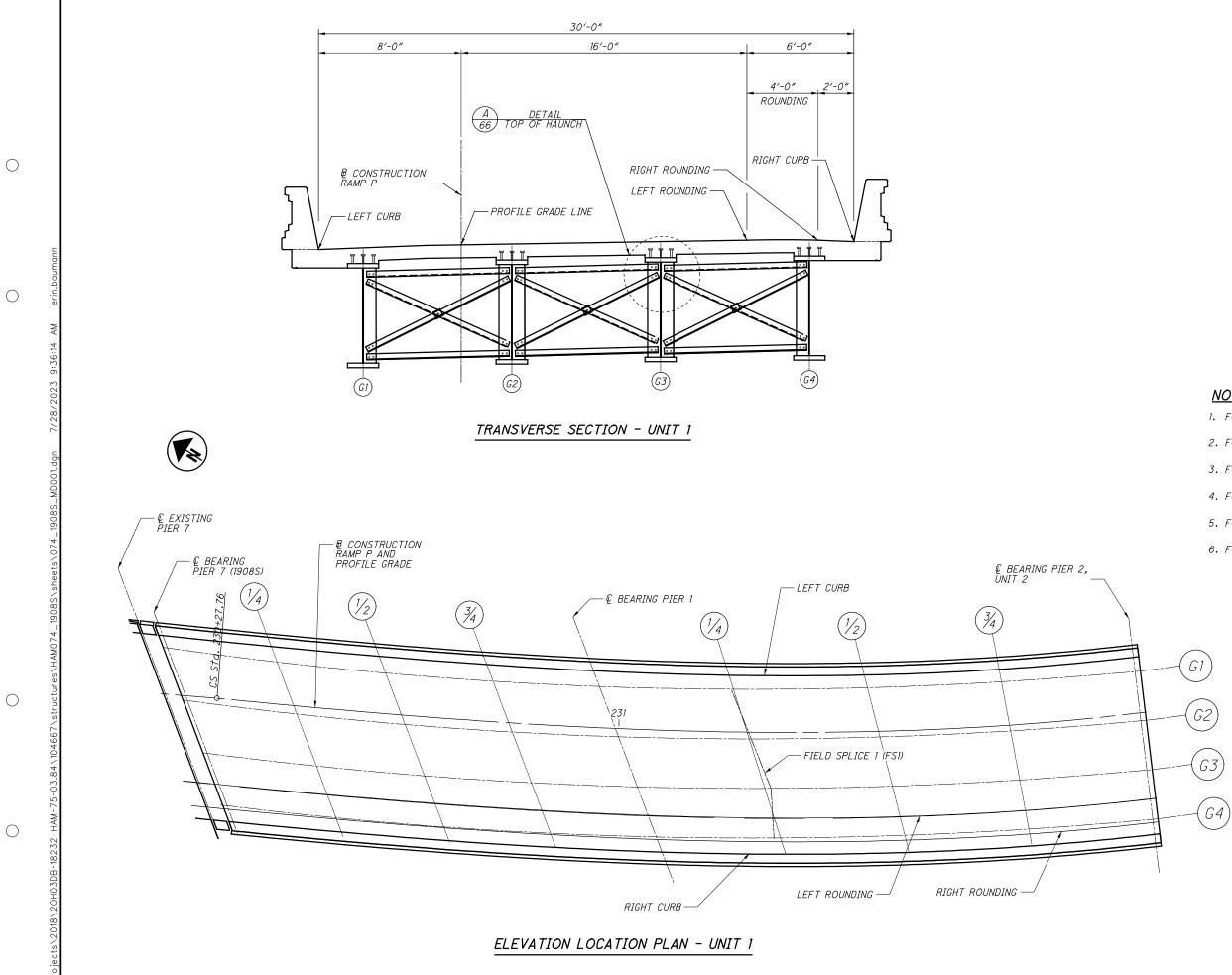
4. THE STAINLESS STEEL BARS SHALL BE ASTM A480, TYPE 304.

6 (		EXPANSION JOINT DETAILS	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
3 6 7	HAM-15-3.84		CRG	CRG	TES 8/22/2019	
53		BRIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	PID No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	KDC		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320



 $\bigcirc$ 

 $\bigcirc$ 



6		E LINIT - NV IA NOILVOU   NOILVOU E	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
	G HAM-75-3.84		ND ND	ADS	TES 8/22/2019	
6				ממ		
55	7	BKIDGE NO. HAM-74-1908S	CHECKED	REVISED	STRUCTURE FILE NUMBER	
)	D No. 104667	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E	CRG		3109798	540 WHITE POND DR. SUITE E AKRON, OH 44320

## <u>NOTES:</u>

- 1. FOR SCREED ELEVATIONS, SEE SHEET 66/79.
- 2. FOR TOP OF HAUNCH ELEVATIONS, SEE SHEET 66/79.
- 3. FOR FINAL DECK ELEVATIONS, SEE SHEET 66/79.
- 4. FOR DECK PLAN, SEE SHEET 54/79.
- 5. FOR TRANSVERSE SECTION, SEE SHEET 53/79.
- 6. FOR FRAMING PLAN, SEE SHEET 37/79.

				S	CREED ELEVA	ATIONS - UNIT 1					
		€ BRG. PIER 7 (1908S)	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FSI POINT	1/2 POINT	3/4 POINT	© BRG. PIER 2 UNIT 2
LEFT CURB	STATION	230+22.32	230+40.55	230+58.80	230+77.09	230+95.41	231+18.38	231+18.88	231+41.39	231+64.47	231+87.59
LEFT CORD	ELEV.	539.28	539.53	539.79	540.08	540.42	540.96	540.97	541.56	542.16	542.75
	STATION	230+26.34	230+44.47	230+62.61	230+80.75	230+98.88	231+21.07	231+22.34	231+43.25	231+65.43	231+87.62
PROFILE GRADE	ELEV.	539.41	539.70	540.00	540.32	540.71	541.28	541.31	541.91	542.53	543.14
LEFT ROUNDING	STATION	230+34.30	230+52.21	230+70.07	230+87.86	231+05.59	231+26.23	231+26.25	231+46.79	231+67.27	231+87.67
LEFT ROUNDING	ELEV.	540.05	540.39	540.74	541.11	541.53	542.12	542.12	542.76	543.38	543.99
	STATION	230+36.26	230+54.11	230+71.89	230+89.59	231+07.22	231+27.48	231+26.25	231+47.64	231+67.71	231+87.68
RIGHT ROUNDING	ELEV.	540.08	540.43	540.79	541.17	541.61	542.20	543.38	542.83	543.46	544.07
	STATION	230+37.23	230+55.06	230+72.70	230+90.45	231+08.03	231+28.10	231+26.25	231+48.06	231+67.92	231+87.68
RIGHT CURB	ELEV.	540.02	540.38	540.75	541.14	541.57	542.17	542.11	542.80	543.43	544.04

				TOF	OF HAUNCH	ELEVATIONS -	UNIT 1				
		© BRG. PIER 7 (1908S)	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FS1 **	1/2 POINT	3/4 POINT	€ BRG. PIER 2, UNIT 2
EX. GIRDER 1	STATION	230+23.32	230+41.59	230+59.88	230+78.20	230+96.55	231+19.25	231+18.88	231+41.99	231+64.78	231+87.60
EX. GIRDER I	ELEV.	538.60	538.87	539.15	539.45	539.80	540.34	540.34	540.95	541.55	542.16
EX. GIRDER 2	STATION	230+27.57	230+45.72	230+63.87	230+82.00	231+00.12	231+22.01	231+22.34	231+43.90	231+65.77	231+87.62
EX. GIRDER Z	ELEV.	538.80	539.11	539.43	539.76	540.14	540.71	540.72	541.33	541.95	542.58
EX. GIRDER 3	STATION	230+31.78	230+49.80	230+67.78	230+85.71	231+03.61	231+24.70	231+25.71	231+45.74	231+66.73	231+87.65
EX. GINDER J	ELEV.	539.13	539.47	539.81	540.17	540.57	541.15	541.18	541.77	542.40	543.02
EX. GIRDER 4	STATION	230+35.95	230+53.83	230+71.63	230+89.36	231+07.01	231+27.31	231+26.25	231+47.53	231+67.65	231+87.68
EA. GIRDER 4	ELEV.	539.38	539.73	540.09	540.47	540.90	541.50	541.46	542.13	542.76	543.37

				FINAL DE	CK SURFACE	ELEVATIONS -	UNITI				
		€ BRG. EX. PIER 7	1/4 POINT	1/2 POINT	3/4 POINT	© BRG. PIER 1	1/4 POINT	FS1 **	1/2 POINT	3/4 POINT	© BRG. PIER 2, UNIT 1
	STATION	230+22.32	230+40.55	230+58.80	230+77.09	230+95.41	231+18.38	231+18.88	231+41.39	231+64.47	231+87.59
LEFT CURB	ELEV.	539.28	539.51	539.77	540.08	540.42	540.91	540.92	541.46	542.07	542.75
	STATION	230+23.32	230+41.59	230+59.88	230+78.20	230+96.55	231+19.25	231+18.88	231+41.99	231+64.78	231+87.60
GIRDER 1	ELEV.	539.31	539.56	539.84	540.16	540.51	541.00	540.99	541.55	542.17	542.87
	STATION	230+26.34	230+44.47	230+62.61	230+80.75	230+98.88	231+21.07	231+22.34	231+43.25	231+65.43	231+87.62
PROFILE GRADE	ELEV.	539.41	539.68	539.98	540.32	540.71	541.23	541.26	541.81	542.45	543.14
GIRDER 2	STATION	230+27.57	230+45.72	230+63.87	230+82.00	231+00.12	231+22.01	231+22.34	231+43.90	231+65.77	231+87.62
	ELEV.	539.51	539.79	540.12	540.47	540.85	541.37	541.38	541.94	542.58	543.29
	STATION	230+31.78	230+49.80	230+67.78	230+85.71	231+03.61	231+24.70	231+25.71	231+45.74	231+66.73	231+87.65
GIRDER 3	ELEV.	539.84	540.16	540.50	540.87	541.28	541.81	541.83	542.39	543.03	543.73
LEET BOUNDING	STATION	230+34.30	230+52.21	230+70.07	230+87.86	231+05.59	231+26.23	231+26.25	231+46.79	231+67.27	231+87.67
LEFT ROUNDING	ELEV.	540.05	540.37	540.72	541.11	541.53	542.08	542.08	542.67	543.31	543.99
	STATION	230+35.95	230+53.83	230+71.63	230+89.36	231+07.01	231+27.31	231+26.25	231+47.53	231+67.65	231+87.68
GIRDER 4	ELEV.	540.09	540.41	540.77	541.17	541.61	542.16	542.13	542.75	543.39	544.07
	STATION	230+36.26	230+54.11	230+71.89	230+89.59	231+07.22	231+27.48	231+26.25	231+47.64	231+67.71	231+87.68
RIGHT ROUNDING	ELEV.	540.08	540.40	540.77	541.17	541.61	542.15	542.12	542.75	543.38	544.07
	STATION	230+37.23	230+55.06	230+72.70	230+90.45	231+08.03	231+28.10	231+26.25	231+48.06	231+67.92	231+87.68
RIGHT CURB	ELEV.	540.02	540.36	540.72	541.13	541.57	542.07	542.12	542.72	543.35	544.04

(A) (66)

### LEGEND:

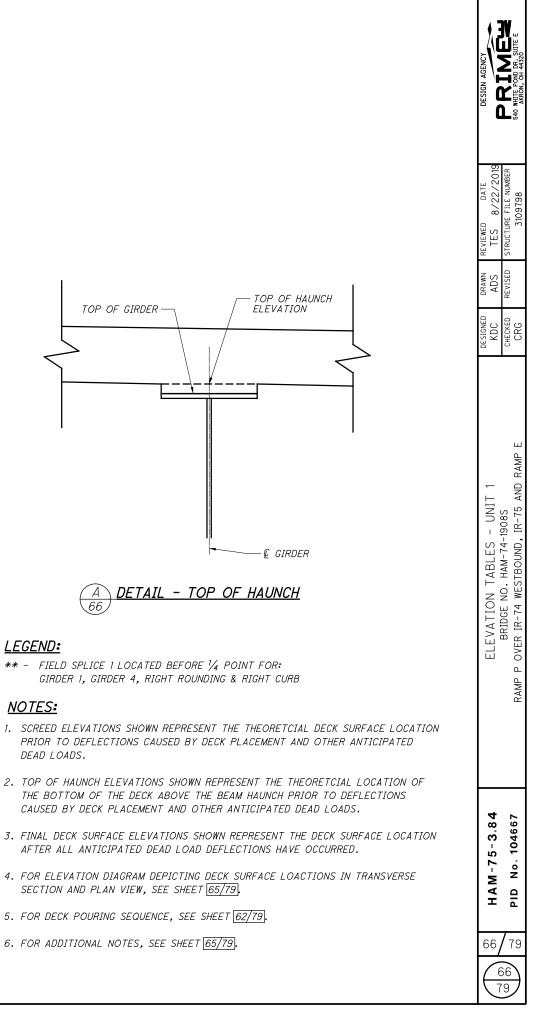
## NOTES:

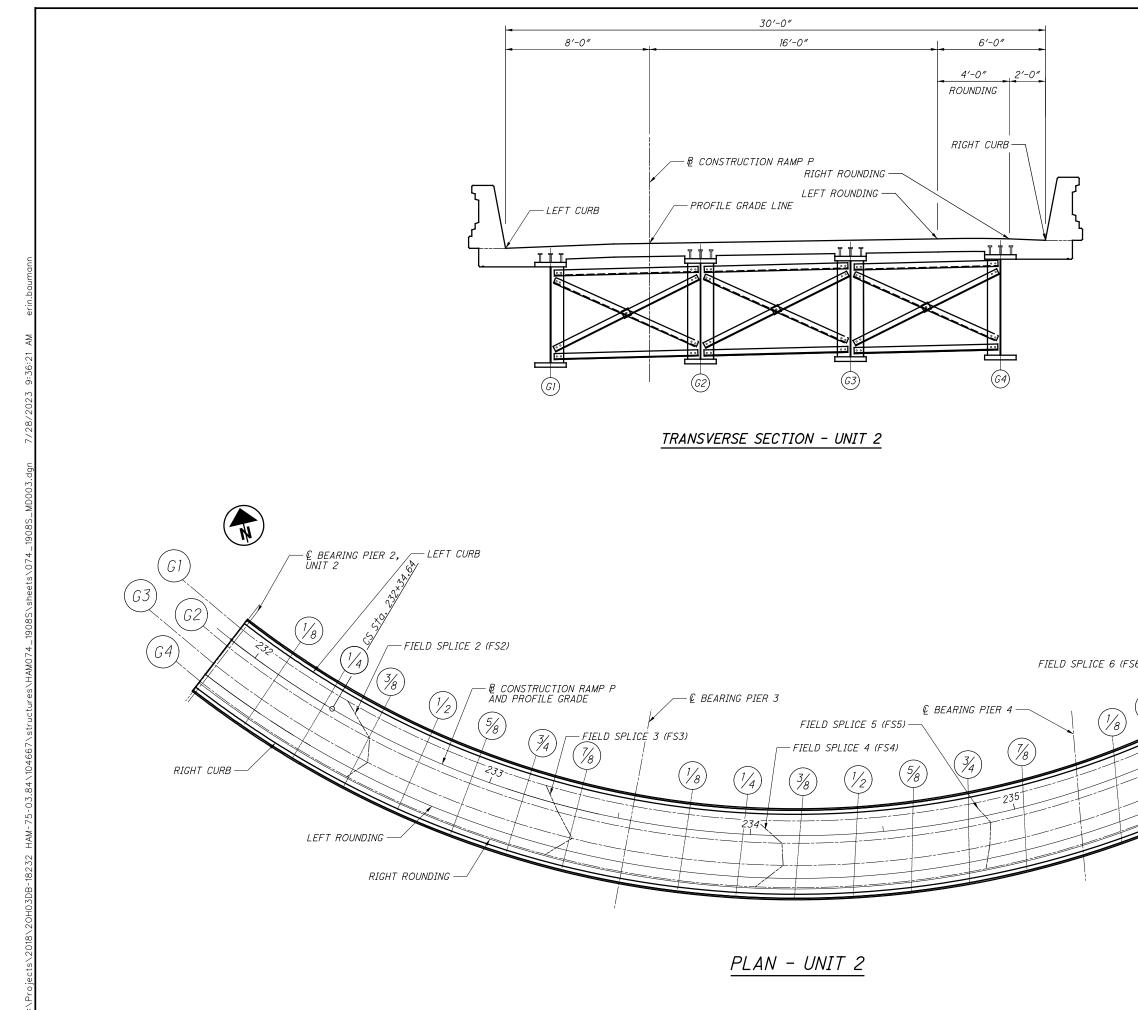
- DEAD LOADS.

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 





 $\bigcirc$ 

 $\bigcirc$ 

	·
	DESIGN AGENCY <b>PRINCE</b> 540 WHTE POWD BN: SUITE E 540 WHTE POWD BN: SUITE E
	DESIGNED DRAWN REVIEWED DATE KDC ADS TES 8/22/2019 CHECKED REVISED STRUCTURE FILE NUMBER CRG 3109798
$560 \qquad \begin{array}{c} \hline \\ \hline $	ELEVATION LOCATION PLAN - UNIT 2 BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
NOTES: 1. FOR SCREED ELEVATIONS, SEE SHEET <u>68/79</u> . 2. FOR TOP OF HAUNCH ELEVATIONS, SEE SHEET <u>69/79</u> . 3. FOR FINAL DECK ELEVATIONS, SEE SHEET <u>70/79</u> .	HAM-75-3.84 PID No. 104667
4. FOR DECK PLAN, SEE SHEET <u>59/79</u> . 5. FOR TRANSVERSE SECTIONS, SEE SHEET <u>58/79</u> . 6. FOR FRAMING PLAN, SEE SHEET <u>42/79</u> .	67/79 67 79

										SCF	REED ELEVAT	TIONS - UNIT	2									DESIGN WHITE P
		€ BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS5	7/8 POINT	€ BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	€ BRG.FA	<b>C</b> <sup>3</sup>
	STATION	233+54.81	233+76.30	233+97.80	234+01.94	234+19.29	234+40.79	234+62.28	234+83.77	234+85.28	235+05.27	235+26.76	235+42.12	235+57.48	235+63.53	235+72.83	235+88.19	236+03.55	236+18.91	236+34.26	236+49.62	<u>୍</u>
LEFT CURB	ELEV.	547.38	547.62	547.79	547.81	547.87	547.82	547.64	547.34	547.32	546.93	546.43	546.04	545.63	545.46	545.21	544.78	544.34	543.89	543.42	542.93	TE /201
	STATION	233+54.81	233+76.06	233+97.31	234+11.94	234+18.56	234+39.82	234+61.07	234+82.32	234+90.24	235+03.57	235+24.82	235+39.84	235+57.87	235+64.26	235+69.89	235+84.92	235+99.94	236+14.96	236+29.99	236+45.01	DAT 722/ 11E NU
PROFILE GRADE	ELEV.	547.86	548.08	548.24	548.30	548.31	548.27	548.11	547.82	547.69	547.43	546.96	546.59	546.19	545.94	545.79	545.37	544.94	544.49	544.02	543.55	D B 3109 3109
	STATION	233+54.81	233+75.61	233+96.41	234+02.78	234+17.21	234+38.01	234+58.81	234+79.61	234+85.09	235+00.41	235+21.21	235+35.63	235+50.04	235+63.61	235+64.45	235+78.86	235+93.27	236+07.68	236+22.09	236+36.50	VIEWE TES RUCTI
LEFT ROUNDING	ELEV.	548.82	548.99	549.12	549.15	549.19	549.17	549.04	548.78	548.71	548.43	548.00	547.68	547.32	546.97	546.94	546.55	546.13	545.69	545.23	544.75	ST
	STATION	233+54.81	233+75.50	233+96.20	234+38.01	234+16.89	234+37.58	234+58.28	234+78.97	235+21.21	234+99.67	235+20.36	235+34.63	235+48.90	235+78.86	235+63.17	235+77.44	235+91.70	236+05.97	236+20.24	236+34.51	AWN DS ISED
RIGHT ROUNDING	ELEV.	548.92	549.09	549.22	549.25	549.29	549.27	549.14	548.89	548.81	548.54	548.12	547.81	547.45	547.07	547.08	546.69	546.27	545.84	545.38	544.91	DR. Al
	STATION	233+54.81	233+75.45	233+96.09	234+02.78	234+16.73	234+37.38	234+58.02	234+78.66	234+85.09	234+99.30	235+19.94	235+34.14	235+48.34	235+63.61	235+62.54	235+76.74	235+90.93	236+05.13	236+19.33	236+33.53	
RIGHT CURB	ELEV.	548.90	549.07	549.20	549.23	549.27	549.25	549.12	548.88	548.79	548.53	548.11	547.80	547.45	547.05	547.08	546.69	546.28	545.84	545.39	544.92	KDC HECKE CRG
	•	•		•	•	•			•		•		•		•		•		•	•		ă O

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

DEAD LOADS.

<u>NOTES:</u>

2. FOR DECK PLAN, SEE SHEET 59/79.

3. FOR TOP OF HAUNCH ELEVATIONS, SEE SHEET 69/79.

5. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOACTIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 67/79.

6. FOR DECK POURING SEQUENCE, SEE SHEET 62/79.

	DESIGN AGENCY		540 WHITE POND DR. SUITE E AKRON, OH 44320
٦		u	54

 $\sim$ 

SCREED ELEVATIONS - UNIT BRIDGE NO. HAM-74-1908S OVER IR-74 WESTBOUND, IR-75 AN

HAM-75-3.84 PID No. 104667

68/79

68

79

AND



\*\* - FIELD SPLICE 2 LOCATED AFTER 3% POINT FOR: PROFILE GRADE

1. SCREED ELEVATIONS SHOWN REPRESENT THE THEORETCIAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED

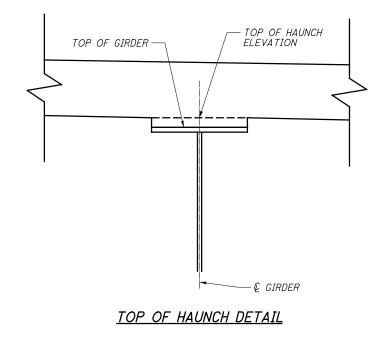
4. FOR FINAL DECK SURFACE ELEVATIONS, SEE SHEET 70/79.

							TC	OP OF HAUNG	CH ELEVATIC	NS - UNIT 2	2							
		€ BRG. PIER 2, UNIT 2	1/8 POINT	1/4 POINT	FS2	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	© BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT
	STATION	231+90.13	232+10.68	232+31.26	232+38.31	232+51.85	232+72.45	232+93.04	233+13.62	233+20.63	233+34.22	233+54.81	233+76.23	233+97.64	234+00.92	234+19.06	234+40.48	234+61.89
GIRDER 1	ELEV.	542.24	543.02	543.79	544.05	544.55	545.23	545.77	546.21	546.33	546.55	546.82	547.06	547.23	547.25	547.31	547.26	547.09
GIRDER 4	STATION	231+90.07	232+10.80	232+31.40	232+51.39	232+52.00	232+72.56	232+93.11	233+13.70	233+27.09	233+34.26	233+54.81	233+75.52	233+96.23	234+85.09	234+16.93	234+37.64	234+58.35
GIRDER 4	ELEV.	543.47	544.43	545.36	546.15	546.18	546.85	547.36	547.73	547.92	548.01	548.22	548.39	548.52	548.10	548.58	548.56	548.43

						TOP OF H	AUNCH ELE	VATION - U	JNIT 2					
		3/4 POINT	FS5	7/8 POINT	© BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	© BRG.FA
GIRDER 1	STATION	234+83.31	234+85.28	235+04.73	235+26.15	235+41.40	235+56.65	235+63.53	235+71.90	235+87.15	236+02.40	236+17.65	236+32.90	236+48.16
GIRDER I	ELEV.	546.79	546.76	546.38	545.89	545.50	545.09	544.90	544.68	544.25	543.82	543.36	542.90	542.42
GIRDER 4	STATION	234+79.06	234+85.09	234+99.76	235+20.47	235+34.76	235+49.04	235+53.33	235+63.33	235+77.61	235+91.90	236+06.18	236+20.47	236+34.75
GINDER 4	ELEV.	548.18	548.10	547.84	547.41	547.09	546.74	546.63	546.36	545.96	545.55	545.11	544.66	544.20

	TOP OF HAUNCH ELEVATIONS - UNIT 2																	
		€ BRG. PIER 2, UNIT 2	1/8 POINT	1/4 POINT	3/8 POINT	FS2	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	€ BRG. PIER 3	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT
GIRDER 2	STATION	231+90.10	232+10.72	232+31.31	232+51.89	232+52.21	232+72.48	232+93.07	233+13.64	233+27.59	233+34.23	233+54.81	233+75.98	233+97.15	234+11.94	234+18.31	234+39.48	234+60.65
GIRDER Z	ELEV.	542.66	543.51	544.34	545.15	545.16	545.80	546.33	546.75	546.97	547.07	547.32	547.54	547.70	547.76	547.77	547.73	547.57
GIRDER 3	STATION	231+90.09	232+10.76	232+31.35	232+51.94	232+55.67	232+72.52	232+93.09	233+13.66	233+34.11	233+34.24	233+54.81	233+75.74	233+96.67	234+11.58	234+17.61	234+38.54	234+59.47
GIRDER S	ELEV.	543.11	544.02	544.90	545.70	545.84	546.38	546.90	547.29	547.59	547.59	547.82	548.02	548.16	548.22	548.23	548.20	548.06

						TOP OF H	IAUNCH ELE	VATION - U	JNIT 2					
		3/4 POINT	FS5	7/8 POINT	© BRG. PIER 4	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	€ BRG.FA
GIRDER 2	STATION	234+81.82	234+90.24	235+02.99	235+24.16	235+39.07	235+53.98	235+64.62	235+68.89	235+83.80	235+98.71	236+13.62	236+28.53	236+43.44
GIRDER Z	ELEV.	547.29	547.15	546.91	546.44	546.07	545.68	545.39	545.27	544.86	544.43	543.99	543.52	543.05
GIRDER 3	STATION	234+80.40	234+88.08	235+01.34	235+22.27	235+36.86	235+51.45	235+65.56	235+66.03	235+80.62	235+95.21	236+09.80	236+24.39	236+38.98
GINDEN J	ELEV.	547.79	547.67	547.43	546.98	546.64	546.26	545.88	545.87	545.47	545.05	544.60	544.15	543.68





- NOTES:
- 2. FOR DECK PLAN, SEE SHEET 59/79.

6. FOR DECK POURING SEQUENCE, SEE SHEET 67/79.

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

\*\* - FIELD SPLICE 2 LOCATED AFTER 🕉 POINT FOR:

1. TOP OF HAUNCH ELEVATIONS SHOWN REPRESENT THE THEORETCIAL LOCATION OF THE BOTTOM OF THE DECK ABOVE THE BEAM HAUNCH PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

3. FOR SCREED ELEVATIONS, SEE SHEET 68/79.

4. FOR FINAL DECK SURFACE ELEVATIONS, SEE SHEET 70/79.

5. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOACTIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 67/79.

DESIGN AGENCY			540 WHITE POND DR. SUITE E AKRON, OH 44320
	1 L 2 8 7 22 7 20 13	STRUCTURE FILE NUMBER	3109798
DRAWN	AUS	CHECKED REVISED	
DESIGNED	AUC AUC	CHECKED	CRG
TOP OF HAUNCH ELEVATIONS - UNIT 2		BKINGE NO. HAM-74-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
HAM-75-384			PID N0. 104667
69	3/ 6	77 59	'9 \
$\backslash$	7	9	ノ

	FINAL DECK SURFACE ELEVATIONS - UNIT 2																	
		© BRG. PIER 2, UNIT 2	1/8 POINT	1/4 POINT	FS2 **	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	FS3	7/8 POINT	1∕1 POINT	1/8 POINT	1/4 POINT	FS4	3/8 POINT	1/2 POINT	5/8 POINT
LEFT CURB	STATION	231+90.14	232+10.66	232+31.24	232+38.31	232+51.83	232+72.42	232+93.02	233+13.62	233+20.63	233+34.21	233+54.81	233+76.30	233+97.80	234+00.92	234+19.29	234+40.79	234+62.28
LEFT LUKD	ELEV.	542.83	543.50	544.19	544.43	544.91	545.59	546.17	546.67	546.81	547.07	547.38	547.61	547.74	547.75	547.77	547.70	547.53
GIRDER 1	STATION	231+90.13	232+10.68	232+31.26	232+38.31	232+51.85	232+72.45	232+93.04	233+13.62	233+20.63	233+34.22	233+54.81	233+76.23	233+97.64	234+00.92	234+19.06	234+40.48	234+61.89
GIRDER I	ELEV.	542.95	543.63	544.34	544.58	545.06	545.74	546.32	546.82	546.96	547.22	547.53	547.76	547.89	547.90	547.92	547.85	547.69
PROFILE GRADE	STATION	231+90.12	232+10.69	232+31.28	232+52.21	232+51.87	232+72.46	232+93.05	233+13.64	233+27.59	233+34.22	233+54.81	233+76.30	233+97.80	234+11.94	234+19.29	234+40.79	234+62.28
PROFILE GRADE	ELEV.	543.23	543.93	544.66	545.40	545.39	546.07	546.65	547.15	547.43	547.55	547.86	548.09	548.22	548.25	548.25	548.18	548.01
GIRDER 2	STATION	231+90.10	232+10.72	232+31.31	232+52.21	232+51.89	232+72.48	232+93.07	233+13.64	233+27.59	233+34.23	233+54.81	233+75.98	233+97.15	234+11.94	234+18.31	234+39.48	234+60.65
GIRDER Z	ELEV.	543.37	544.09	544.83	545.57	545.56	546.24	546.82	547.32	547.60	547.72	548.03	548.26	548.39	548.42	548.42	548.36	548.20
	STATION	231+90.09	232+10.76	232+31.35	232+55.67	232+51.94	232+72.52	232+93.09	233+13.66	233+34.11	233+34.24	233+54.81	233+75.74	233+96.67	234+11.58	234+17.61	234+38.54	234+59.47
GIRDER 3	ELEV.	543.82	544.57	545.33	546.19	546.06	546.74	547.32	547.82	548.22	548.22	548.53	548.76	548.89	548.92	548.92	548.86	548.71
LEFT ROUNDING	STATION	231+90.06	232+10.80	232+31.43	232+51.39	232+51.97	232+72.54	232+93.10	233+13.67	233+27.09	233+34.24	233+54.81	233+75.61	233+96.41	234+02.78	234+17.21	234+38.01	234+58.81
LEFT ROUNDING	ELEV.	544.09	544.85	545.62	546.34	546.36	547.03	547.61	548.11	548.38	548.51	548.82	549.05	549.18	549.20	549.21	549.16	549.01
GIRDER 4	STATION	231+90.07	232+10.80	232+31.40	232+51.39	232+52.00	232+72.56	232+93.11	233+13.70	233+27.09	233+34.26	233+54.81	233+75.52	233+96.23	234+02.78	234+16.93	234+37.64	234+58.35
GIRDER 4	ELEV.	544.18	544.94	545.72	546.44	546.46	547.13	547.72	548.21	548.48	548.61	548.93	549.15	549.28	549.29	549.31	549.26	549.11
	STATION	231+90.06	232+10.79	232+31.39	232+51.39	232+51.99	232+72.55	232+93.10	233+13.67	233+27.09	233+34.24	233+54.81	233+75.61	233+96.41	234+02.78	234+17.21	234+38.01	234+58.81
RIGHT ROUNDING	ELEV.	544.17	544.93	545.72	546.44	546.46	547.13	547.71	548.21	548.48	548.61	548.92	549.15	549.28	549.30	549.31	549.26	549.11
	STATION	231+90.06	232+10.80	232+31.40	232+51.39	232+52.00	232+72.56	232+93.12	233+13.67	233+27.09	233+34.24	233+54.81	233+75.45	233+96.09	234+02.78	234+16.73	234+37.38	234+58.02
RIGHT CURB	ELEV.	544.14	544.91	545.70	546.42	546.44	547.11	547.70	548.19	548.46	548.59	548.90	549.12	549.25	549.28	549.29	549.24	549.09

		1	1		FINAL DI	ECK SURFAC	CE ELEVATI	ONS - UNIT	2		1	1		1
		3/4 POINT	FS5	7/8 POINT	1/1 POINT	1/8 POINT	1/4 POINT	FS6	3/8 POINT	1/2 POINT	5/8 POINT	3/4 POINT	7/8 POINT	€ BRG. FA
LEFT CURB	STATION	234+83.77	234+85.28	235+05.27	235+26.76	235+42.14	235+57.53	235+63.53	235+72.91	235+88.29	236+03.67	236+19.06	236+34.44	236+49.82
LEFT LUKD	ELEV.	547.27	547.24	546.90	546.43	546.04	545.60	545.43	545.15	544.71	544.26	543.82	543.37	542.93
GIRDER 1	STATION	234+83.31	234+85.28	235+04.73	235+26.15	235+41.40	235+56.65	235+63.53	235+71.90	235+87.15	236+02.40	236+17.65	236+32.90	236+48.16
GIRDER I	ELEV.	547.42	547.39	547.06	546.60	546.21	545.78	545.58	545.33	544.89	544.45	544.01	543.57	543.12
	STATION	234+83.77	234+90.24	235+05.27	235+26.76	235+42.12	235+57.49	235+64.62	235+72.85	235+88.22	236+03.58	236+18.94	236+34.31	236+49.67
PROFILE GRADE	ELEV.	547.75	547.65	547.38	546.91	546.52	546.08	545.87	545.64	545.19	544.75	544.30	543.86	543.41
	STATION	234+81.82	234+90.24	235+02.99	235+24.16	235+39.07	235+53.98	235+64.62	235+68.89	235+83.80	235+98.71	236+13.62	236+28.53	236+43.44
GIRDER 2	ELEV.	547.94	547.82	547.59	547.15	546.77	546.35	546.04	545.92	545.49	545.06	544.63	544.19	543.76
GIRDER 3	STATION	234+80.40	234+88.08	235+01.34	235+22.27	235+36.86	235+51.45	235+65.56	235+66.03	235+80.62	235+95.21	236+09.80	236+24.39	236+38.98
GIRDER J	ELEV.	548.46	548.35	548.12	547.69	547.33	546.93	546.52	546.50	546.08	545.66	545.24	544.81	544.39
	STATION	234+79.61	234+85.09	235+00.41	235+21.21	235+35.63	235+50.04	235+53.33	235+64.45	235+78.86	235+93.27	236+07.68	236+22.09	236+36.50
LEFT ROUNDING	ELEV.	548.77	548.69	548.43	548.00	547.65	547.26	547.16	546.84	546.42	546.00	545.59	545.17	544.75
	STATION	234+79.06	234+85.09	234+99.76	235+20.47	235+34.76	235+49.04	235+53.33	235+63.33	235+77.61	235+91.90	236+06.18	236+20.47	236+34.75
GIRDER 4	ELEV.	548.88	548.79	548.55	548.12	547.78	547.39	547.26	546.97	546.56	546.15	545.73	545.32	544.91
	STATION	234+79.61	234+85.09	235+00.41	235+21.21	235+35.63	235+50.04	235+53.33	235+64.45	235+78.86	235+93.27	236+07.68	236+22.09	236+36.50
RIGHT ROUNDING	ELEV.	548.87	548.79	548.53	548.10	547.75	547.36	547.26	546.94	546.52	546.10	545.69	545.27	544.85
	STATION	234+78.66	234+85.09	234+99.30	235+19.94	235+34.14	235+48.34	235+53.33	235+62.54	235+76.74	235+90.93	236+05.13	236+19.33	236+33.53
RIGHT CURB	ELEV.	548.86	548.77	548.53	548.11	547.77	547.39	547.24	546.97	546.56	546.15	545.74	545.33	544.92

\*\* - FIELD SPLICE 2 LOCATED AFTER 3% POINT FOR:

PROFILE GRADE, GIRDER 1 & GIRDER 2

<u>LEGEND:</u>

NO	<u>TES:</u>	

2. FOR DECK PLAN, SEE SHEET 59/79.

3. FOR SCREED ELEVATIONS, SEE SHEET 68/79.

4. FOR TOP OF HAUNCH ELEVATIONS, SEE SHEET 69/79.

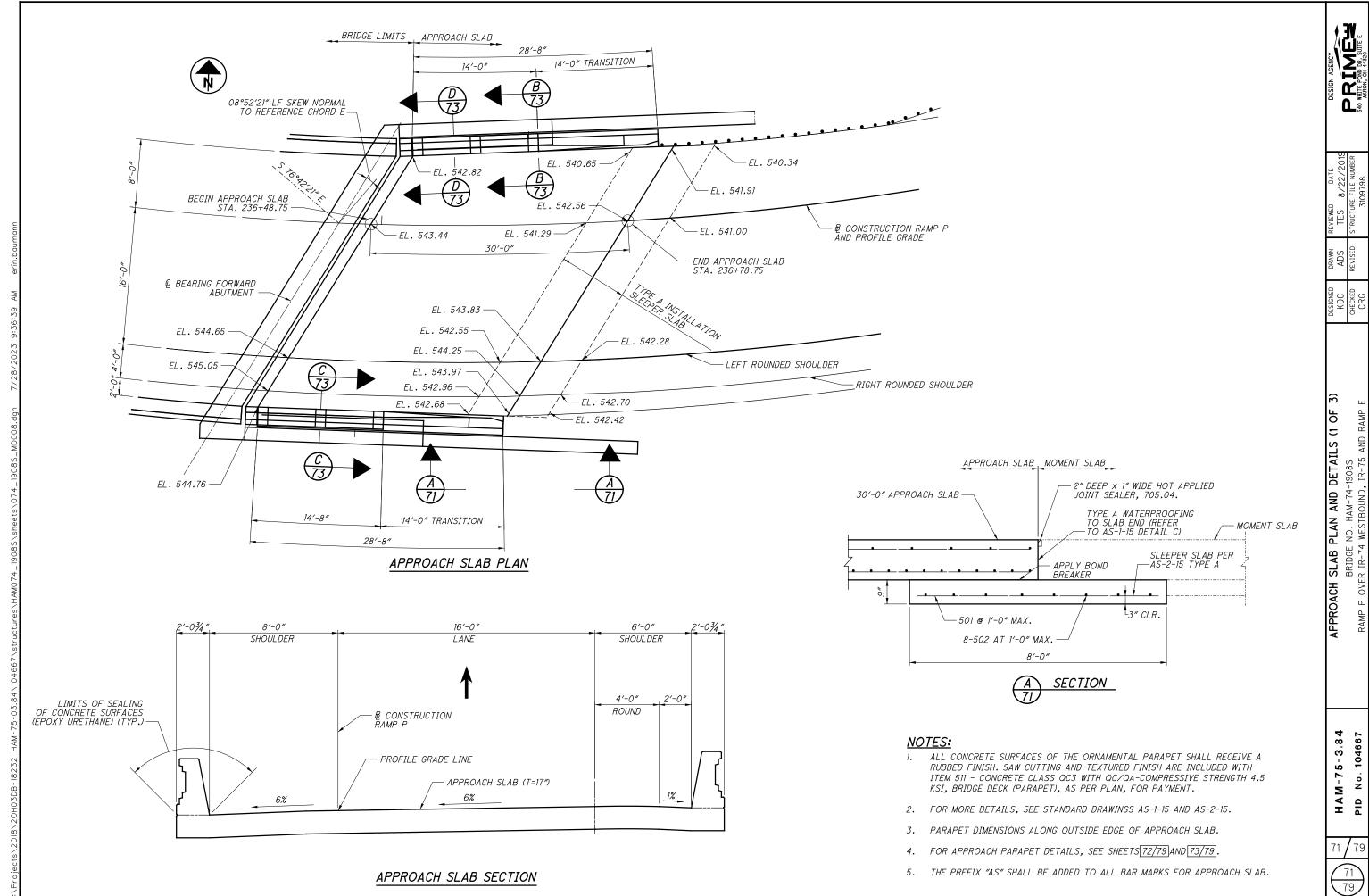
6. FOR DECK POURING SEQUENCE, SEE SHEET 62/79 .

 $\bigcirc$ 



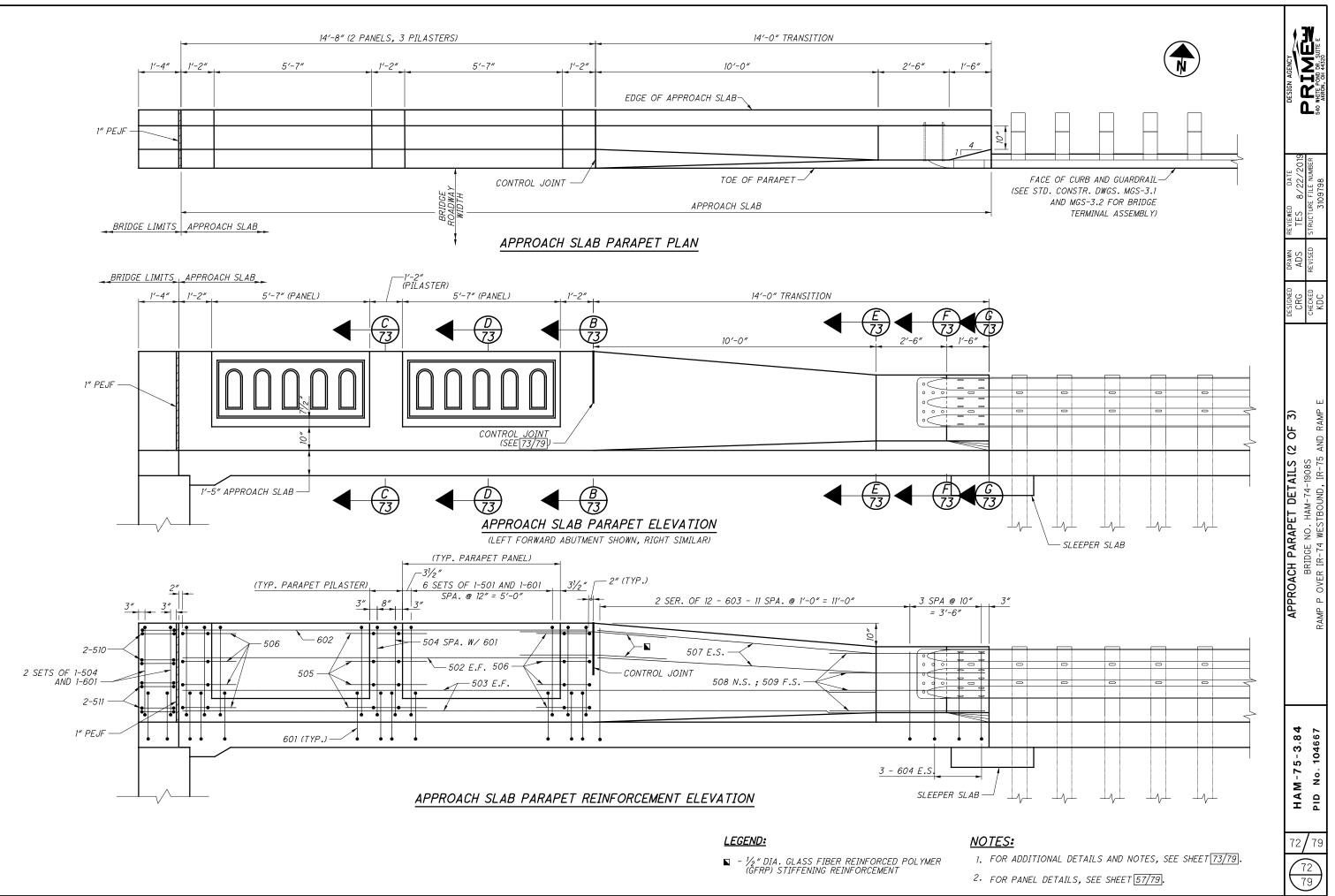
5. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOACTIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 67/79.

DESIGN AGENCY			540 WHITE POND DR. SUITE E AKRON, OH 44320
REVIEWED DATE	IE> 8/22/2019	STRUCTURE FILE NUMBER	3109798
DRAWN	AUS	REVISED	
DESIGNED	RUC	CHECKED	CRG
FINAL DECK SURFACE ELEVATIONS - UNIT :	•	BKIDGE NO. HAM-74-1908S	RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
U A M - 76-384			PID NO. 104667
70		77	'9 <b>\</b>
t	7	9	ノ



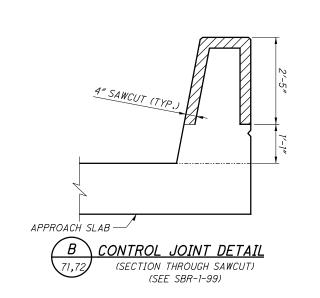
 $\bigcirc$ 

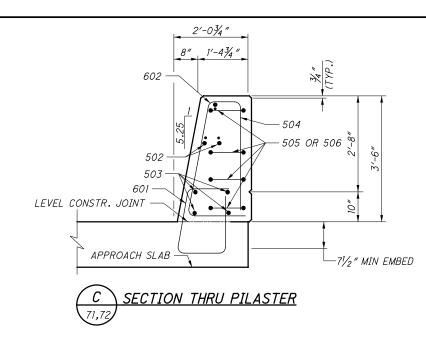
 $\bigcirc$ 

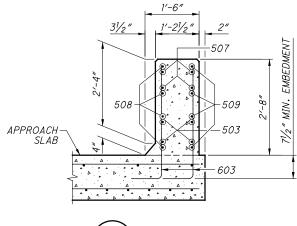


 $\bigcirc$ 

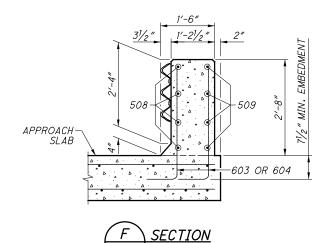
 $\bigcirc$ 

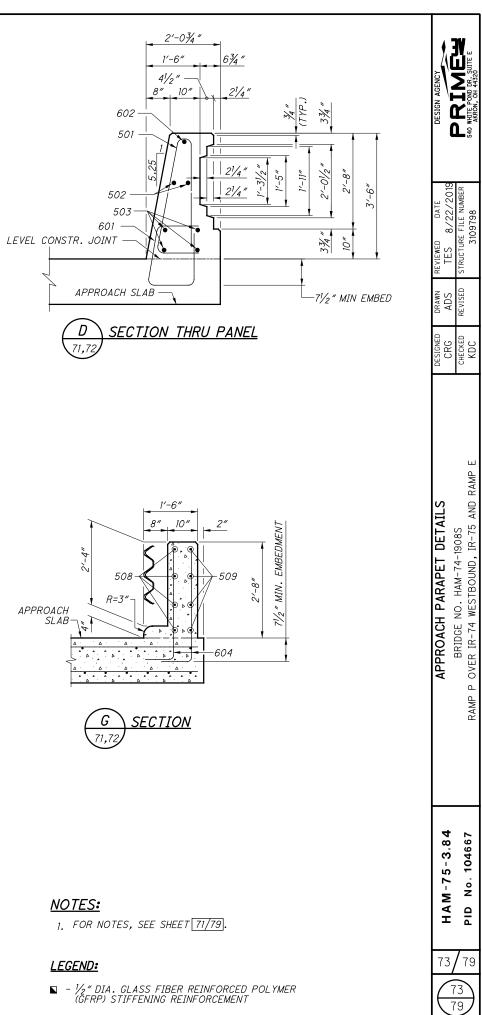












 $\bigcirc$ 

 $\bigcirc$ 

MADK	NUMBER		WEIGUT	TYPE			D	IMENSIO	NS			1-		<b>T</b>	1-	_				
MARK	TOTAL	LENGTH	WEIGHT	17	A	В	С	D	E	R	INC		В	<u>م</u>		J				
				E	XISTING	PIER 7						ļ				0			В	
7P401	608	4'-8"	1878	37	3′-8″								<u>.</u>							
7P402	99	3'-6"	231	16	3'-0"							_ <i>A</i> _			В					
															P		-	A		
7P501	48	14'-3"	713	1	5′-5″	3'-8"	5′-5″					TYPE	-1	-					_	
7P502	24	11′-3″	282	STR										_/	<u> YPE-2</u>			TYPE-3	5	
7P503	24	13'-3″	332	STR																
7P504	38	9′-7″	380	2	3′-1″	3'-8″	3′-1″								В					
7P505	38	9′-7″	380	28	3′-8″	3′-1″										-				<b> </b>
	1 SR	9′-6″												T		_				
7P506	OF	TO	138	STR							2'-0"	Λ	R	Ī			-	A	-1	/
	8	23′-6″										A			/1					(
7P507	10	32'-4″	337	STR										Р	$  \sim$				)	
7P508	10	33′-4″	348	STR								i			1		I	-		\
7P509	2	25'-0"	52	STR										<u>+</u>	·		<u></u> Y	<u> PE-37</u>		
7P510	1	28'-0"	29	STR								TVDE 10			В					-
7P511	1	30'-0"	31	STR								<u>TYPE-19</u>		ŀ						<u>/</u>
7P512	2 SR OF	8'-10"	286	STR							5 3/4 "			7	YPE-28					
15312	12 12	TO 14'-0"	200						+		5 74			<u></u>	,,0					
	12 1 SR	14 -0 19′-8″				5′-10″														
7P513	OF	TO	139	3	3′-8″	TO					6″									
	6	24'-8"	,			8'-4"			+				NUMBER			μ			DI	MENSIC
7P514	8	19'-0"	159	3	3′-8″	5'-6"						MARK		LENGTH	WEIGHT	TYPE				
	1 SR	19'-8"				5'-10"							TOTAL			1	A	В	С	D
7P515	OF	TO	113	3	3'-8″	TO					6″						~			
	5	23'-8"				7'-10"											PIEF	ז ז		
	2 SR	8′-4″										1P501	200	8'-4"	1738	2	3'-1"	2'-5"	3'-1"	
	OF	ΤΟ	276	STR							6″	1P502	18	9′-7″	180	2	3'-1"	2 3 3'-8"	3'-1"	
7P516	12	13′-9″										1P503	420	11'-11"	5220					
7P516																40	5'-6"			
	1 SR	12′-7″											420		0220	40	3'-6"			
	1 SR OF	12'-7″ TO	163	STR							2'-0"	1P601	6	31′-4″	282	40 STR				
	1 SR OF 8	12'-7" TO 26'-7"	163	STR							2'-0"			31′-4″ 9′-5″				8'-6"		
7P517	1 SR OF 8 1 SR	12'-7" TO 26'-7" 14'-7"										1P601	6		282			8'-6" 3'-8"	1'-1"	
7P517	1 SR OF 8 1 SR OF	12'-7" TO 26'-7" 14'-7" TO	163 180	STR STR							2'-0" 2'-0"	1P601 1P602	6 12	9′-5″	282 170	STR 1	1'-1"		1'-1"	
7P516 7P517 7P518 7P518	1 SR OF 8 1 SR OF 8	12'-7" TO 26'-7" 14'-7" TO 28'-7"	180	STR								1P601 1P602	6 12	9′-5″	282 170	STR 1	1'-1"		1'-1" 3'-7"	
7P517 7P518 7P519	1 SR OF 8 1 SR OF 8 46	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8"	180 992	STR STR		7/ 0//						1P601 1P602 1P603 1P701	6 12 53 6	9'-5" 4'-7" 37'-11"	282 170 365 465	STR 1 2	1'-1" 1'-1" 3'-7"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520	1 SR OF 8 1 SR OF 8 46 37	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5"	180 992 595	STR STR STR 2	6'-0"	3'-8"	6'-0" 3'-2"					1P601 1P602 1P603 1P701 1P1001	6 12 53 6 5	9'-5" 4'-7" 37'-11" 37'-8"	282 170 365 465 810	STR 1 2 2 2 2 2	1'-1" 1'-1" 3'-7" 3'-7"	3′-8″		
7P517 7P518 7P519 7P520 7P521	1 SR OF 8 1 SR OF 8 46 37 37	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9"	180 992 595 376	STR STR 2 2	6'-0" 3'-2"	3'-8"	6'-0" 3'-2"					1P601 1P602 1P603 1P701 1P1001 1P1002	6 12 53 6 5 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5"	282 170 365 465 810 2375	STR 1 2 2 2 2 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522	1 SR OF 8 1 SR OF 8 46 37 37 37 37	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0"	180 992 595 376 695	STR STR 2 2 3	6'-0" 3'-2" 1'-8"	3'-8" 7'-0"						1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10"	282 170 365 465 810 2375 2400	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P522 7P523	1 SR OF 8 1 SR OF 8 46 37 37	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8"	180 992 595 376 695 19	STR STR 2 2 3 3 3	6'-0" 3'-2" 1'-8" 1'-10"	3'-8" 7'-0" 7'-2"	3'-2"					1P601 1P602 1P603 1P701 1P1001 1P1002	6 12 53 6 5 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5"	282 170 365 465 810 2375	STR 1 2 2 2 2 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P522 7P523 7P524	1 SR OF 8 1 SR OF 8 46 37 37 37 37 1 1	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8"	180 992 595 376 695 19 9	STR STR 2 2 3 3 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5"	3'-8" 7'-0" 7'-2" 4'-1"	3'-2"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P523 7P524 7P525	1 SR OF 8 1 SR OF 8 46 37 37 37 37 1 1 1	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10"	180 992 595 376 695 19 9 17	STR STR 2 2 3 3 2 2 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1"	3'-2" 2'-5" 6'-0"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10"	282 170 365 465 810 2375 2400	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P523 7P524 7P525 7P526	1 SR OF 8 1 SR OF 8 46 37 37 37 37 1 1	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8"	180 992 595 376 695 19 9	STR STR 2 2 3 3 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5"	3'-8" 7'-0" 7'-2" 4'-1"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P523 7P524 7P525 7P526	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 1 23	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4"	180 992 595 376 695 19 9 17 248	STR STR 2 2 3 3 2 2 2 2 2 2 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P523 7P524 7P525 7P526	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 1 23	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4"	180 992 595 376 695 19 9 17 248	STR STR 2 2 3 3 2 2 2 2 2 2 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420	STR 1 2 2 2 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P527	1 SR OF 8 1 SR OF 8 46 37 37 37 37 1 1 1 1 23 37	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8"	180 992 595 376 695 19 9 17 248 504	STR           STR           2           2           3           2           2           3           2           2           3           2           2           2           3           2           2           2           2           2           2           2           2           2           2           2           2           2           3           3           3           2           2           2           2           3           3           3           3           2           2           3           3           3           3           3           3           3           3           3           3           3           3           3 <td>6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"</td> <td>3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"</td> <td>3'-2" 2'-5" 6'-0" 3'-6"</td> <td></td> <td></td> <td></td> <td></td> <td>1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003</td> <td>6 12 53 6 5 14 14 14 14 5 5 5</td> <td>9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"</td> <td>282 170 365 465 810 2375 2400 2420</td> <td>STR 1 2 2 16 16 16</td> <td>1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"</td> <td>3'-8" 31'-2"</td> <td>3'-7"</td> <td></td>	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14 5 5 5	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420	STR 1 2 2 16 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 23 37 12	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10"	180 992 595 376 695 19 9 17 248 504 483	STR           STR           2           2           3           2           2           3           2           2           2           3           2           2           2           3           5           5           STR           STR           STR	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003 1P1004	6 12 53 6 5 14 14 14 14	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 2 16 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	IMENSIC
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 23 37 1 1 23 37 12 8	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0"	180 992 595 376 695 19 9 17 248 504 483 586	STR           STR           2           2           3           2           2           3           2           2           3           2           2           2           3           2           2           2           2           2           2           2           2           2           2           2           2           2           3           3           3           2           2           2           2           3           3           3           3           2           2           3           3           3           3           3           3           3           3           3           3           3           3           3 <td>6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"</td> <td>3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"</td> <td>3'-2" 2'-5" 6'-0" 3'-6"</td> <td></td> <td></td> <td></td> <td></td> <td>1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003</td> <td>6 12 53 6 5 14 14 14 14 14 50 NUMBER</td> <td>9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"</td> <td>282 170 365 465 810 2375 2400 2420 16,425</td> <td>STR 1 2 2 16 16 16</td> <td>1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"</td> <td>3'-8" 31'-2"</td> <td>3'-7"</td> <td>IMENSIC</td>	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003	6 12 53 6 5 14 14 14 14 14 50 NUMBER	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 2 16 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	IMENSIC
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803 7P804	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 23 37 1 1 23 37 1 1 23 37 12 8 8	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10"	180 992 595 376 695 19 9 17 248 504 483 586 573	STR           STR           2           3           2           2           3           2           2           3           2           2           3           2           2           3           2           2           2           3           5           STR           STR           STR	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003 1P1004	6 12 53 6 5 14 14 14 14 5 5 5	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 2 16 16 16	1'-1" 1'-1" 3'-7" 3'-7" 38'-0" 38'-5"	3'-8" 31'-2"	3'-7"	TMENSIC D
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803 7P804 7P805	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 23 37 1 1 23 37 12 8 8 8 8	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0"	180 992 595 376 695 19 9 17 248 504 483 586 573 586	STR 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003 1P1004	6 12 53 6 5 14 14 14 14 14 5 0	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A	3'-8" 31'-2" 31'-2" B	3'-7" 3'-7" DI	TMENSIC D
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803 7P804 7P805 7P806	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 1 23 37 1 1 1 23 37 12 8 8 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 21'-5" 21'-9"	180 992 595 376 695 19 9 17 248 504 483 586 573 586 573 534 757 581	STR           STR           2           3           2           2           2           3           2           2           3           2           2           3           2           2           2           3           2           2           3           5           STR           STR           1           STR	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003 1P1004	6 12 53 6 5 14 14 14 14 14 5 0	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9"	3'-8" 31'-2" 31'-2" B	3'-7" 3'-7" DI	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803 7P804 7P805 7P806 7P901	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 1 23 37 1 1 1 23 37 12 8 8 8 1 5 8 1 5 8 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0" 35'-5" 21'-9" 7'-0"	180 992 595 376 695 19 9 17 248 504 483 586 573 586 573 534 757 581	STR           STR           2           3           2           2           2           3           2           2           3           2           2           2           STR           STR           I           STR           STR	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-8"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					1P601 1P602 1P603 1P701 1P1001 1P1002 1P1003 1P1004	6 12 53 6 5 14 14 14 14 14 5 0	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2"	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC	3'-8" 31'-2" 31'-2" B	3'-7" 3'-7" DI	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P801 7P802 7P803 7P804 7P805 7P806 7P901 7P902	1 SR OF 8 1 SR OF 8 46 37 37 37 1 1 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 23 37 57 1 1 23 37 57 57 57 57 57 57 57 57 57 5	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0" 35'-5" 21'-9" 28'-5"	180 992 595 376 695 19 9 17 248 504 483 586 573 534 757 581 1380 5604	STR           STR           2           3           2           3 <td>6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"</td> <td>3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"</td> <td>3'-2" 2'-5" 6'-0" 3'-6"</td> <td></td> <td></td> <td></td> <td></td> <td><i>IP601</i> <i>IP602</i> <i>IP603</i> <i>IP701</i> <i>IP1001</i> <i>IP1002</i> <i>IP1003</i> <i>IP1004</i> <i>MARK</i></td> <td>6 12 53 6 5 14 14 14 14 14 5 <i>SU</i> <i>NUMBER</i> <i>TOTAL</i></td> <td>9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2" B-TOTAL</td> <td>282 170 365 465 810 2375 2400 2420 16,425</td> <td>STR 1 2 16 16 16 16</td> <td>1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC</td> <td>3'-8" 31'-2" 31'-2" B</td> <td>3'-7" 3'-7" DI</td> <td></td>	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					<i>IP601</i> <i>IP602</i> <i>IP603</i> <i>IP701</i> <i>IP1001</i> <i>IP1002</i> <i>IP1003</i> <i>IP1004</i> <i>MARK</i>	6 12 53 6 5 14 14 14 14 14 5 <i>SU</i> <i>NUMBER</i> <i>TOTAL</i>	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2" B-TOTAL	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC	3'-8" 31'-2" 31'-2" B	3'-7" 3'-7" DI	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P526 7P527 7P526 7P527 7P801 7P802 7P803 7P804 7P805	1 SR OF 8 1 SR OF 8 46 37 37 1 1 1 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 1 23 37 1 1 1 23 37 57 58 58 58	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0" 35'-5" 21'-9" 7'-0" 28'-5" 14'-7"	180 992 595 376 695 19 9 17 248 504 483 586 573 534 757 581 1380 5604 2876	STR           STR           2           3           2           2           2           3           2           2           3           2           2           2           STR           STR           I           STR           STR	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					<i>IP601</i> <i>IP602</i> <i>IP603</i> <i>IP701</i> <i>IP1001</i> <i>IP1002</i> <i>IP1003</i> <i>IP1004</i> <i>MARK</i> <i>F503</i> <i>F601</i>	6 12 53 6 5 14 14 14 14 14 5 <i>SU</i> <i>NUMBER</i> <i>TOTAL</i>	9'-5" 4'-7" 37'-11" 39'-5" 39'-10" 40'-2" /B-TOTAL	282 170 365 465 810 2375 2400 2420 16,425	STR 1 2 16 16 16 16 16 16 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC	3'-8" 31'-2" 31'-2" B	3'-7" 3'-7" DI	
7P517 7P518 7P519 7P520 7P521 7P522 7P523 7P524 7P525 7P526 7P526 7P527 7P526 7P527 7P526 7P527 7P801 7P802 7P803 7P804 7P805 7P806 7P806	1 SR OF 8 1 SR OF 8 46 37 37 1 1 1 1 1 23 37 1 1 1 23 37 1 1 23 37 1 1 1 23 37 1 1 1 23 37 57 58 58 58	12'-7" TO 26'-7" 14'-7" TO 28'-7" 20'-8" 15'-5" 9'-9" 18'-0" 18'-8" 8'-8" 15'-10" 10'-4" 6'-8" 27'-5" 26'-10" 25'-0" 35'-5" 21'-9" 28'-5"	180 992 595 376 695 19 9 17 248 504 483 586 573 534 757 581 1380 5604	STR           STR           2           3           2           3 <td>6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"</td> <td>3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"</td> <td>3'-2" 2'-5" 6'-0" 3'-6"</td> <td></td> <td></td> <td></td> <td></td> <td><i>IP601</i> <i>IP602</i> <i>IP603</i> <i>IP701</i> <i>IP1001</i> <i>IP1002</i> <i>IP1003</i> <i>IP1004</i> <i>MARK</i></td> <td>6 12 53 6 5 14 14 14 14 14 5 <i>NUMBER</i> <i>TOTAL</i> 27</td> <td>9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2" B-TOTAL</td> <td>282 170 365 465 2375 2400 2420 16,425 WEIGHT</td> <td>STR 1 2 16 16 16 16 16 16 16 16 16 16</td> <td>1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC 3'-6"</td> <td>3'-8" 31'-2" 31'-2" B DOTINGS</td> <td>3'-7" 3'-7" DI</td> <td></td>	6'-0" 3'-2" 1'-8" 1'-10" 2'-5" 6'-0" 3'-6" 2'-8" 2'-0"	3'-8" 7'-0" 7'-2" 4'-1" 4'-1" 3'-7" 1'-8"	3'-2" 2'-5" 6'-0" 3'-6"					<i>IP601</i> <i>IP602</i> <i>IP603</i> <i>IP701</i> <i>IP1001</i> <i>IP1002</i> <i>IP1003</i> <i>IP1004</i> <i>MARK</i>	6 12 53 6 5 14 14 14 14 14 5 <i>NUMBER</i> <i>TOTAL</i> 27	9'-5" 4'-7" 37'-11" 37'-8" 39'-5" 39'-10" 40'-2" B-TOTAL	282 170 365 465 2375 2400 2420 16,425 WEIGHT	STR 1 2 16 16 16 16 16 16 16 16 16 16	1'-1" 1'-1" 3'-7" 38'-0" 38'-5" 38'-9" A PIER 1 FC 3'-6"	3'-8" 31'-2" 31'-2" B DOTINGS	3'-7" 3'-7" DI	

F1001

9′-5″

SUB-TOTAL 4,418

42

1702

1'-0″

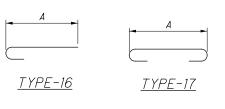
1

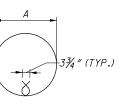
 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

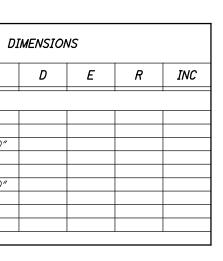






8′-9″

MENSIO	vs		
D	Ε	R	INC
		MENSIONS D E	



NOTES: SEE SHEET [79/79] FOR NOTES

MARK	NUMBER	LENGTH	WEIGHT	TYPE			D.	IMENSIO	NS			<u>BAR BEND</u>	ING DETA	<u>ILS</u>	٨			A			
MANN	TOTAL		<i>"ב</i> 10 <i>П</i> 1	7	A	В	С	D	E	R	INC		Β	-	<u> </u>		K	<		•	
	ł		1	1	PIE	ት የ 2	ł				1		F	$\subset$				$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		В	
2P401	154	5′-7″	574	60	4'-8″	8″				1″			<u> </u>	_7	<u>YPE-16</u>						
P501	7	15′-8″	114	STR								A			Δ			TYPE	-60		
P502	14	11'-0"	161	19	7′-9″	3'-0"	1'-4"					TYP	5-1	-		-					
2P503 2P504	44 44	10'-9" 15'-8"	493 719	2 STR	3'-3"	4′-6″	3'-3"					<u></u>		$\square$		)					
2P505	22	16′-6″	379	60	15′-6″	8″				11/4 "				т	YPE-17			AA			
2P505	22	16'-6"	379	60	15′-6″	8″	7/ 1//			11/4″		А	5	<u> </u>	<u> </u>						Ŧ
2P506 2P507	18 4	10'-5" 7'-5"	196 31	2	3′-1″ 3′-1″	4′-6″ 1′-6″	3′-1″ 3′-1″							<b></b>	A B	-		$\langle$	7.3/	″ (TYP.)	
	4 SER	10'-8″	01		3'-3"	, ,	3'-3"					+							← <sup>7574</sup>	()   F.)	В
2P601	OF	TO	204	2	TO	4'-6"	TO				4″	В						X			
	3	12'-0"			3′-11″		3′-11″						- 1			×	Y				Т
	4 SER	12'-2"			4'-0"		4'-0"					<u>TYP</u>	<u>E-2</u>	<u> 7</u>	<u> 'PE-19</u>			<u>TYPE</u>	-40		
2P602	OF	TO	892	2	TO	4′-6″	TO				11/2 "										
	11	14'-10"			5′-4″		5′-4″						NUMBER							THENOTO	
2P603	60	15′-4″	1382	2	5′-7″	4′-6″	5′-7″					MARK		LENGTH	WEIGHT	TYPE			D	IMENSIO	WS
00004	4 SER	13'-4"	0.47		4'-7"	44.0%	4'-7"				11/ //		TOTAL			1	A	В	С	D	E
2P604	OF 11	TO 15'-4″	947	2	TO 5'-7″	4′-6″	TO 5'-7"				11/4 "								U		
				1													PIER	23			
	4 SER	12'-2"			4'-0"		4'-0"				7.4	3P501	458 6	11′-11″ 9′-6″	5693	40		3'-7"	7/ 1//		
2P605	OF 3	TO 13'-2"	228	2	TO 4'-6"	4′-6″	TO 4'-6"				3″	3P502	0	9-0	59	2	3′-1″	5 -7 -	3'-1"		
2P606	43	11'-10"	764	2	5'-4"	1'-6"	5'-4"					3P601	96	10′-9″	1550	2	4'-4"	2′-5″	4'-4"		
2P607	12	30′-8″	553	STR								3P602	18	12'-0"	324	2	4'-4"	3'-8"	4'-4"		
2P608	2	201.01	00	STR								3P603 3P604	12 27	9'-0" 5'-4"	162 216	2	1'-0" 1'-0"	8'-2" 3'-8"	1'-0"		
P609	2	28'-9" 24'-6"	86 74	STR								3P605	6	30'-7"	276	STR		5.0	10	+	
2P610	2	20'-2"	61	STR																	
2P611	16	10'-11"	262	1	1'-1"	10'-0"						3P801	9	33'-7"	807	41	1'-6″	30′-7″	1′-6″	1'-3 <sup>1</sup> /2"	
2P612	8	5′-11″	71		1'-1‴	5′-0″						3P901	18	42'-5"	2596	16	41'-1 1/2"				
2P801	4	37′-9″	403	2	3'-10"	30'-6"	3'-10"					3P902	18	43'-1"	2637	16	41'-9 3⁄4 "				
												3P903	18	43′-9″	2672	16	42′-5 <sup>1</sup> /2″			<u> </u>	
2P901	62	25'-4″	5340	STR								3P1001	9	34'-7"	1340	41	2'-0"	30′-7″	2'-0"	1'-31/2"	
2P1001	8	36'-8″	1262	2	2'-10"	30'-6"	4'-0"														
		D TOTAL	15, 100										SL	IB-TOTAL	18 <b>,</b> 332						
	SL	<u>IB-TOTAL</u>	15,196																		
	NUMBER						ת		NC				NUMBER								
MARK	TOTAL	LENGTH	WEIGHT	TYPE		1	<i>U</i> .	IMENSIO	NS	i		MARK	NOMBEN	LENGTH	WEIGHT	TYPE			D	IMENSIO	NS
	TOTAL				A	В	С	D	E	R	INC		TOTAL			L L	A	В	С	D	E
				F	PIER 2 F	OOTING										PIFR	3 DRILL	FD SHA	FTS	1	
F401	21	5′-7″	78	60	4′-8″	8″				1″		3DS501	360	12'-8"	4756	40				1	
F503	6	10'-9"	67	2	3'-3"	4'-6"	3'-3"													1	
F503 F504	6	15'-8"	98	STR		70														<b> </b>	
F505	3	16'-6"	52	_	15′-6″	8″				11/4 "		3DS1001	54	29'-6"	6855	STR				+	
5603	10	12/ ///	350	2	21-04	Q1 0#	21.04													1	
F603 F604	19 10	12'-4" 21'-4"	352 320	2	2'-0" 2'-0"	8'-8" 17'-8"	2'-0" 2'-0"						SL	IB-TOTAL	11,611						
F605	2	8'-8"	26	STR																	
F606	2	17′-8″	53	STR					<u> </u>												
F701	19	12'-3″	476	2	2'-0"	8'-8"	2'-0"				+										
F702	19	21'-3"	476	2	2'-0"	0-0 17'-8″	2'-0"														
	, · · ·			-		† ··· Ŭ		1	1												

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

62

10′-6″

SUB-TOTAL 4,169

F901

2213

1 1'-7" 9'-3"

B	• 	4] 		NED DRAWN REVIEWED DATE DESIGN AGENCY C ADS TES 8/22/2019 REVISED STRUCTURE FILE NUMBER 66 REVISED 3109798 54 MRTE POND 14320UTE E
E	R	INC		DESIGNED KDC CHECKED CRG
				<b>6)</b>
				STEEL LIST (2 OF 6) No. HAM-74-1908S WESTBOUND, IR-75 AND RAMP E
				<b>IST (:</b> 1908S IR-75 A
				EEL L HAM-74- FBOUND,
				<b>G STI</b> GE NO. I -74 WEST
				DRCIN BRID DVER IR-
				REINFORCING STEEL LIST (2 OF 6) BRIDGE NO. HAM-74-1908S RAMP P OVER IR-74 WESTBOUND, IR-75 AND RAMP E
Ε	R	INC		
				4 7
				M - 7 5 - 3,84 No, 104667
				HAM-75-3.84 PID No. 104667
				75 79
			NOTES: SEE SHEET [79/79] FOR NOTES.	75 79

MARK	NUMBER	LENGTH	WEIGHT	TYPE			D	IMENSION	IS		
MANN	TOTAL	LENGTH	<i>WEIGHT</i>	7	A	В	С	D	E	R	INC
				1	PIEF	7 4		1 1			
4P501	160	9'-10"	1641	2	3′-10″	2'-5"	3'-10"				
4P502	18	11′-1″	208	2	3′-10″	3′-8″	3′-10″				
4P503	191	11′-11″	2374	40	3′-6″						
4P504	6	9′-6″	59	2	3′-1″	3'-7"	3'-1"				
4P601	6	31'-7"	285	STR							
4P602	12	9'-3"	167	1	1'-0"	8'-5"					
4P603	27	5′-4″	216	2	1'-0"	3'-8"	1'-0"				
4P901	8	34′-11″	950	41	1'-8″	31'-7"	1'-8"	103/4 "			
4P902	18	18'-7"	1137	16	17'-4"	51 1	10	10/4			
4P903	18	19'-0"	1163	16	17'-9″						
4P904	18	19'-5"	1188	16	18'-2"						
	,0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10 2						
4P1001	8	35′-7″	1225	41	2'-0"	31'-7"	2'-0"	10¾″			
	SL	IB-TOTAL	10,613								
	NUMBER						<u>م</u>				
MARK	TOTAL	LENGTH	WEIGHT	TYPE				IMENSION	15	1	
	TOTAL				A	В	С	D	Ε	R	INC
	•			PIER	4 DRIL	LED SHA	FTS				
4DS501	447	12′-8″	5905	40	3′-6″						
4DS1001	54	<i>30'-6″</i>	7087	STR							
4DS1001	SL	30'-6" IB-TOTAL	7087 12,992	STR							
		IB-TOTAL	12,992				D	IMENSION	IS		
4DS1001 MARK	SL			STR JAL	A	B	1			R	INC
	SL NUMBER	IB-TOTAL	12,992	TYPE		В	С	IMENSION D	IS E	R	INC
MARK	NUMBER TOTAL	LENGTH	12,992 WEIGHT	<i>IYPE</i>		B	С			R	INC
<b>MARK</b> FA501	NUMBER TOTAL	B-TOTAL LENGTH	12,992 <b>WEIGHT</b> 900	Зd,L FOi str	RWARD A	ABUTMEN	C T			R	
<b>MARK</b> FA501 FA502	NUMBER TOTAL	18-TOTAL LENGTH	12,992 <b>WEIGHT</b> 900 72	JdAL FOI STR 2	<b>RWARD A</b> 1'-8"	ABUTMEN 4'-9"	С 7 2′-5″			R	
MARK FA501 FA502 FA503	NUMBER TOTAL	12'-6" 12'-6" 8'-7" 9'-2"	12,992 <b>WEIGHT</b> 900 72 86	JdAL FOI STR 2 2	RWARD A 1'-8" 2'-3"	ABUTMEN 4'-9" 4'-9"	C 7 2'-5" 2'-5"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i>	SL           NUMBER           TOTAL           69           8           9           10	IB-TOTAL LENGTH 12'-6" 8'-7" 9'-2" 9'-9"	12,992 WEIGHT 900 72 86 102	<b>JAAL</b> <b>FO</b> STR 2 2 2 2	RWARD A 1'-8" 2'-3" 2'-10"	ABUTMEN 4'-9" 4'-9" 4'-9"	C 77 2'-5" 2'-5" 2'-5"			R	
MARK FA501 FA502 FA503	NUMBER TOTAL	12'-6" 12'-6" 8'-7" 9'-2"	12,992 <b>WEIGHT</b> 900 72 86	JdAL FOI STR 2 2	<b>RWARD A</b> 1'-8" 2'-3"	ABUTMEN 4'-9" 4'-9"	C 7 2'-5" 2'-5"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i>	SL           NUMBER           TOTAL           69           8           9           10	IB-TOTAL LENGTH 12'-6" 8'-7" 9'-2" 9'-9"	12,992 WEIGHT 900 72 86 102	<b>JAAL</b> <b>FO</b> STR 2 2 2 2	<b>RWARD A</b> 1'-8" 2'-3" 2'-10" 3'-5"	ABUTMEN 4'-9" 4'-9" 4'-9"	C 77 2'-5" 2'-5" 2'-5"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i>	SL           NUMBER           TOTAL           69           8           9           10           8	12'-6" 12'-6" 8'-7" 9'-2" 9'-9" 10'-4"	12,992 WEIGHT 900 72 86 102 86	<b><i>HALL</i></b> <b><i>FO</i></b> <i>STR</i> <i>2</i> <i>2</i> <i>2</i> <i>2</i> <i>2</i>	RWARD A 1'-8" 2'-3" 2'-10"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9"	C 77 2'-5" 2'-5" 2'-5" 2'-5"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10	12'-6" 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 11'-3"	12,992 WEIGHT 900 72 86 102 86	<b><i>HALL</i></b> <b><i>FO</i></b> <i>STR</i> <i>2</i> <i>2</i> <i>2</i> <i>2</i> <i>2</i>	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9"	C 77 2'-5" 2'-5" 2'-5" 2'-5"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR	12'-6" 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 11'-3" 16'-4"	12,992 WEIGHT 900 72 86 102 86 118	<b>Jd/L</b> <b>FO</b> STR 2 2 2 2 19	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10"	C 77 2'-5" 2'-5" 2'-5" 2'-5" 4'-10"			R	
MARK FA501 FA502 FA503 FA504 FA505 FA506 FA507 FA508	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2	12'-6" LENGTH 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 11'-3" 16'-4" TO 18'-4" 18'-4"	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38	<b>JULE</b> <b>FO</b> STR 2 2 2 2 2 19 19 2 2	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-9" 1'-4"	C 7 2'-5" 2'-5" 2'-5" 4'-10" 6'-3"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i> <i>FA507</i> <i>FA508</i> <i>FA509</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           2	12'-6" LENGTH 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 11'-3" 16'-4" TO 18'-4" 18'-4" 18'-4" 16'-4"	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 	<b>J</b> JALI FOI STR 2 2 2 2 2 2 19 19 2 2 2 2 2 2 2 2 2 2 2	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0" 9'-0"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4"	C 7 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3"			R	
MARK FA501 FA502 FA503 FA504 FA505 FA506 FA507 FA508	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2	12'-6" LENGTH 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 11'-3" 16'-4" TO 18'-4" 18'-4"	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38	<b>JULE</b> <b>FO</b> STR 2 2 2 2 2 19 19 2 2	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-9" 1'-4"	C 7 2'-5" 2'-5" 2'-5" 4'-10" 6'-3"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i> <i>FA506</i> <i>FA507</i> <i>FA508</i> <i>FA509</i> <i>FA510</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38	<i>IB-TOTAL</i> <i>IB-TOTAL</i> <i>LENGTH</i> <i>12'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38 34 310	<b>JJL</b> <b>FOI</b> <b>S</b> <i>TR</i> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b>	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0" 9'-0" 3'-8"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9"	C 7 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i> <i>FA506</i> <i>FA507</i> <i>FA507</i> <i>FA508</i> <i>FA509</i> <i>FA510</i> <i>FA511</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90	<i>IB-TOTAL</i> <i>IB-TOTAL</i> <i>IB-TOTAL</i> <i>I2'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>16'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 	<b>JJL</b> <b>FOI</b> <b>S</b> <i>TR</i> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>2</b>	RWARD A 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0" 9'-0" 3'-8" 2'-8"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2"	C 7 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8"			R	
<i>MARK</i> <i>FA501</i> <i>FA502</i> <i>FA503</i> <i>FA504</i> <i>FA505</i> <i>FA506</i> <i>FA506</i> <i>FA507</i> <i>FA507</i> <i>FA508</i> <i>FA509</i> <i>FA509</i> <i>FA510</i> <i>FA511</i> <i>FA512</i>	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           90           9	<i>IB-TOTAL</i> <i>IB-TOTAL</i> <i>IB-TOTAL</i> <i>I2'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>16'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i> <i>11'-9"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110	<b>JJL</b> <b>FOI</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 11'-0" 9'-0" 3'-8" 2'-8" 4'-11"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-9" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10"			R	
FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA511           FA512           FA513	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10	<i>IE-TOTAL</i> <i>IENGTH</i> <i>I2'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>16'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i> <i>11'-9"</i> <i>12'-5"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130	<b>JJL</b> <b>FOI</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10"			R	
FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA511           FA512           FA513           FA514	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10           9           10	<i>LENGTH</i> <i>12'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>TO</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i> <i>11'-9"</i> <i>12'-5"</i> <i>13'-0"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130 122	<b>FO</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10"	C 7 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 4'-10"			R	
FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA511           FA512           FA513	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10	<i>IE-TOTAL</i> <i>IENGTH</i> <i>I2'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>16'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i> <i>11'-9"</i> <i>12'-5"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130	<b>JJL</b> <b>FOI</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10"			<i>R</i>	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA511         FA512         FA513         FA514         FA515	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10           9           10	<i>LENGTH 12'-6" 8'-7" 9'-2" 9'-2" 9'-9" 10'-4" 11'-3" 16'-4" TO 18'-4" 16'-4" 7'-10" 6'-3" 11'-9" 12'-5" 13'-0" 8'-4"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130 122 9	FO STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 3'-9"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 4'-10" 2'-5"			R	
FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA511           FA512           FA513           FA514	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           1 SR           0F           34           2           38           90           9           10           9           10	<i>LENGTH</i> <i>12'-6"</i> <i>8'-7"</i> <i>9'-2"</i> <i>9'-2"</i> <i>9'-9"</i> <i>10'-4"</i> <i>11'-3"</i> <i>16'-4"</i> <i>TO</i> <i>18'-4"</i> <i>16'-4"</i> <i>7'-10"</i> <i>6'-3"</i> <i>11'-9"</i> <i>12'-5"</i> <i>13'-0"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130 122	<b>FO</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10"	C 7 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 4'-10"			R	
FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA511           FA512           FA513           FA514           FA515	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           1	<i>LENGTH 12'-6" 8'-7" 9'-2" 9'-2" 9'-2" 10'-4" 11'-3" 16'-4" 16'-4" 18'-4" 18'-4" 16'-4" 7'-10" 6'-3" 11'-9" 12'-5" 13'-0" 8'-4" 8'-4"</i>	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 615 38 34 310 587 110 130 122 9 9 9	FO STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA511         FA512         FA513         FA514         FA515         FA516         FA517	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           9           10           1           1           1           1	LENGTH 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 10'-6" 1	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38 34 310 587 110 130 122 9 9 7	<b>FO</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA510         FA510         FA510         FA510         FA510         FA510         FA511         FA512         FA513         FA514         FA515         FA516         FA517         FA518	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           9           10           1           1           1           16	LENGTH 12'-6" 8'-7" 9'-2" 9'-9" 10'-4" 10'-6" 1	12,992 WEIGHT 900 72 86 102 86 102 86 118 38 34 310 587 110 130 122 9 9 7 261	<b>FO</b> STR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA510         FA510         FA511         FA512         FA513         FA514         FA515         FA516         FA517         FA518         FA519         FA520	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10           9           10           1           10           9           10           9           10           9           10           2           28           20           38           90           9           10           9           10           9           10           2           2           38           90           9           10           1           16           2           2	LENGTH	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38 34 310 587 110 130 122 9 9 7 261 34 41	Jake           FOI           STR           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           19           19           19           19           2           2           2           2           2           2           2           3           3           2           2           2           2           2           3           3           3	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA510         FA511         FA512         FA513         FA514         FA515         FA516         FA517         FA518         FA519         FA520         FA521	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10           9           10           1           1           1           1           16           2           2           2	LENGTH	12,992 WEIGHT 900 72 86 102 9 9 7 26 10 10 10 10 10 10 10 10 10 10	Jaki           FOI           STR           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           19           19           19           19           2           2           2           2           2           2           2           3           5           5           5           5	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
MARK FA501 FA502 FA503 FA504 FA505 FA506 FA507 FA507 FA508 FA509 FA509 FA509 FA510 FA510 FA512 FA513 FA513 FA514 FA515 FA515 FA516 FA517 FA518 FA519 FA520 FA521 FA522	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           9           10           9           10           9           10           9           10           9           10           2           2           38           90           9           10           9           10           9           11           16           2           2           6	LENGTH	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38 34 310 587 110 130 122 9 9 7 261 34 41	Jake           FOI           STR           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           19           19           19           19           2           2           2           2           2           2           2           3           3           2           2           2           2           2           3           3           3	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
MARK           FA501           FA502           FA503           FA504           FA505           FA506           FA507           FA508           FA509           FA510           FA510           FA511           FA513           FA514           FA515           FA516           FA517           FA518           FA519           FA520           FA521           FA522           FA523	SL           NUMBER           TOTAL           69           8           9           10           8           10           1 SR           0F           34           2           38           90           9           10           9           10           1           10           9           10           9           10           9           10           2           38           90           9           10           9           10           9           10           9           11           16           2           2           6           NOT USED	LENGTH	12,992 WEIGHT 900 72 86 102 86 102 86 118 615 38 34 310 587 110 130 122 9 9 7 261 34 41 41 47 146	Jaki           FOI           STR           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           19           19           19           19           2           2           2           2           2           2           2           3           5           5           5           5           5           5           5           5	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	
FA501         FA502         FA503         FA504         FA505         FA506         FA507         FA508         FA509         FA510         FA510         FA510         FA511         FA512         FA513         FA514         FA515         FA516         FA517         FA518         FA519         FA520	SL           NUMBER           TOTAL           69           8           9           10           8           9           10           1 SR           0F           34           2           38           90           9           10           9           10           9           10           9           10           9           10           9           10           2           2           38           90           9           10           9           10           9           11           16           2           2           6	LENGTH	12,992 WEIGHT 900 72 86 102 9 9 7 26 10 10 10 10 10 10 10 10 10 10	Jaki           FOI           STR           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           19           19           19           19           2           2           2           2           2           2           2           3           5           5           5           5	<b>RWARD 4</b> 1'-8" 2'-3" 2'-10" 3'-5" 4'-5" 9'-0" TO 11'-0" 9'-0" 3'-8" 2'-8" 4'-11" 5'-7" 6'-2" 2'-5"	ABUTMEN 4'-9" 4'-9" 4'-9" 4'-9" 4'-10" 1'-4" 1'-4" 0'-9" 1'-2" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10" 4'-10"	C 2'-5" 2'-5" 2'-5" 2'-5" 4'-10" 6'-3" 6'-3" 6'-3" 3'-8" 2'-8" 4'-10" 4'-10" 2'-5" 2'-5"			R	

	NUMBER			μ			Di	MENSIO	N
MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	С	D	Т
			50		דוום א	MENT (C			Ŧ
	2 SR	2'-9"	FUI	т <i>и</i> Ал	U ADUT	MENT (C			Т
FA525	OF	TO	56	STR					t
	6	6'-2″							I
<b>E</b> 4526	2	9′-6″	20	10	8′-5″	0/ 6//	11.011		╀
FA526 FA527	2 9	<u>9'-6"</u> 19'-5″	20 182	19 STR	8'-5"	0′-6″	1'-0"		╀
FA528	2	17'-3"	36	STR					+
FA529	2	20'-2″	42	STR					t
FA530	2	23'-2″	48	STR					ļ
FA531	6	24'-9″	155	STR					+
FAJJI	2 SR	24 -9 2'-9"	155	5//					╀
FA532	OF	TO	56	STR					t
	6	6'-2"							t
FA533	2	11'-2″	23	19	8'-6"	1'-2"	2'-6"		L
FA534	NOT USED								+
FA535	4	17'-10″	74	STR					+
									t
FA536	4	19′-9″	82	STR					I
FA537	18	17′-2″	322	STR					╀
FA601	16	17′-3″	415	STR					╀
FA602	16	20'-7"	495	STR					+
FA603	36	22'-1"	1194	STR					t
FA604	74	21′-4″	2371	STR					
FA605	11	17′-7″	291	STR					+
FA606	22	27'-2″	898	STR					+
FA607	18	19′-8″	532	STR					t
FA608	19	25′-3″	721	STR					T
FA609	36	19'-3"	1041	STR			54.0%		╀
FA610	20	11′-5″	343	2	1′-5″	4'-10"	5′-6″		+
FA611	18	9'-1"	246	37	4'-0"	11″	3'-0"	1'-4"	t
FA612	9	17′-10″	241	STR					T
FA613	10	18′-6″	278	STR					I
FA614	12	17'-6"	315	STR					╀
FA615	13	19′-5″	379	STR					+
FA616	7	17′-10″	187	STR					t
FA617	7	19′-9″	208	STR					t
FA618	40	25′-8″	<i>1542</i>	STR					Ī
<b>EA801</b>	Г.	14/ 4//	101	,	14 6 //	17/ 1//			+
FA801 FA802	5 10	14'-4" 15'-10"	191 423	1	1′-6″ 1′-6″	13'-1" 14'-6"			╀
FA803	10	23'-6"	627	, STR	10				t
FA804	17	17'-3"	783	STR					t
FA805	14	15′-3″	570	STR					I
<b>E4806</b>	24	4'-10"	710	10	2'-8"	1'-0"	1'-0"		+
FA806	24	4 -10	310	18	2 -0	1-0	7-0		+
									t
									+
									╈
									t
	SU	B-TOTAL	19,707						
			A	-		A	B B		
		12		VI.	•				

<u> TYPE-60</u>

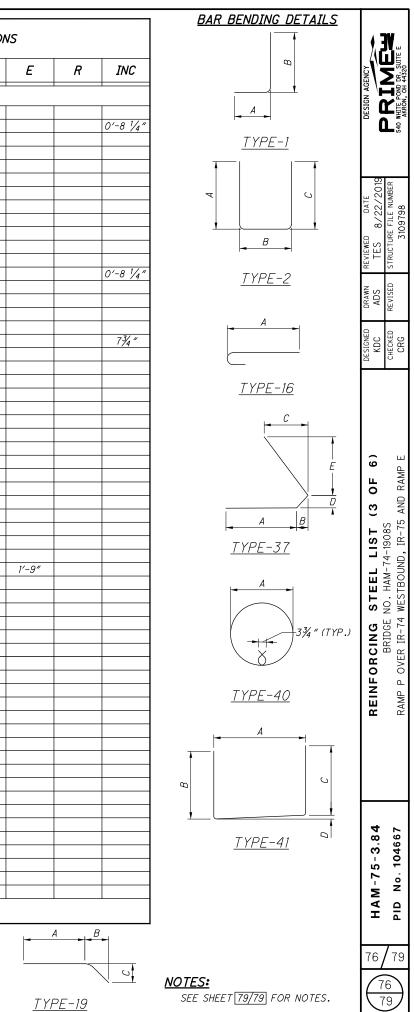
<u> TYPE-18</u>

 $\bigcirc$ 

 $\bigcirc$ 

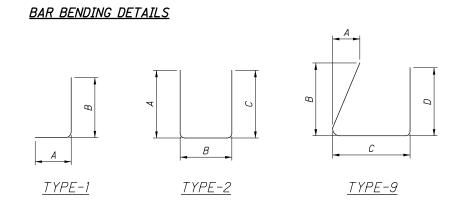
 $\bigcirc$ 

 $\bigcirc$ 



<u>TYPE-19</u>

MARK	NUMBER	LENGTH	WEIGHT	TYPE			D.	IMENSION	IS		
ΜΑΠΛ	TOTAL	LENGIA	<b>W</b> EIGHT	7	A	В	С	D	Ε	R	INC
			FOF	¦ RWAR	D ABUTI	MENT FC	OTING	1			
FAF501	17	6'-0"	106	1	1'-0"	5'-2"					
FAF502	64	18′-8″	1246	2	2'-5″	14'-1″	2'-5"				
FAF503	36	17′-8″	663	2	2′-5″	13′-1″	2'-5"				
FAF504	36	16′-2″	607	2	2′-5″	11′-7″	2'-5"				
FAF505	4	14'-2″	59	STR							
FAF506	2	13'-2"	27	STR							
FAF507	2	11'-8"	24	STR							
FAF601	89	7'-11"	1058	1	1'-1"	7'-0"					
FAF602	4	7'-9″	47	1	4'-11"	3'-0"					
FAF603	88	27'-1"	3580	1	3'-0"	24'-3"					
FAF604 FAF605	4	23'-1" 23'-6"	137 141	STR STR							
1 AI 000	7	23 0	ודו	511							
FAF606	4	30-5″	183	STR							
FAF607	4	8'-6"	51	9	3'-5¾"	1'-11¾ ″	2'-0"	4'-0"		-	
FAF608	2	28'-0" 15'-1"	84	STR							
FAF609	4 2 SR	7'-10"	91	STR		2'-2"					
FAF610	2 SR OF	7'-10" TO	246	2	3'-0"	 	3'-0"				2'-4"
FAFOIU	0F 6	19'-6"	240	2	3-0	13'-10"	5-0				2 -4
	0	15 0				13 10					
	1 SR	7′-9″				2'-2"					
FAF701	OF	ΤΟ	90	2	3'-0"	TO	3'-0"				2'-2"
	4	14'-2"				8'-7"					
	1 SR	15′-8″				10'-1‴					
FAF702	OF	TO	342	2	3'-0"	TO	3'-0"				1'-6"
FAF703	8 16	26′-2″ 26′-3″	858	2	3'-0"	20′-7″ 20′-8″	3'-0"				
FAFTUS	1 SR	26-3	000	2	3-0	20-8	5-0				
FAF704	OF	TO	788	2	3'-0"	TO	3'-0"				6¾″
	13	33'-0"	100			27'-5"					0/4
	1 SR	10'-2"				4'-7"					
FAF705	OF	TO	551	2	3'-0"	ТО	3'-0"				1'-9"
	13	31′-3″				25′-8″					
FAF706	1	14'-6″	30	2	3'-0"	8'-11"	3'-0"				
	1 SR	7′-9″		<u> </u>		2'-2"					
FAF801	OF	7'-9" TO	117	2	3'-0"	 	3'-0"				2'-2"
	4	14'-2"	111			8'-7"					
	, 1 SR	15'-8″				10'-1"	1			1	1
FAF802	OF	TO	447	2	3'-0"	TO	3'-0"				1'-6"
	8	26'-2"				20'-8"					
FAF803	16	26'-3"	1121	2	3'-0"	20'-8"	3'-0"				
	1 SR	26'-3″				20'-8"					
FAF804	OF	ΤΟ	1027	2	3'-0"	TO	3'-0"				6¾″
	13	33'-0"				27'-5"					
	1 SR	10'-2"	<b>_</b>	-		4'-7"					
FAF805	0F 13	TO 31'-3″	717	2	3′-0″	TO 25'-8″	3'-0"				1'-9"
	15	51-5	<u> </u>			23-0					
FAF806	1	14′-6″	39	2	3′-0″	8'-11"	3'-0"				
FAF901	23	13'-2"	1030	1	1'-8″	11'-9″					
FAF902	69	14'-8"	3441	1	1'-8″	13'-3"					
FAF903	25	14'-2"	1204	1	1'-8″	12'-9"					
	10	10/- 1//	7007	1	1/_11//	17/. 0//					
FAF1001	48	19′-4″	3993	1	1′-11″	17′-9″					



 $\bigcirc$ 

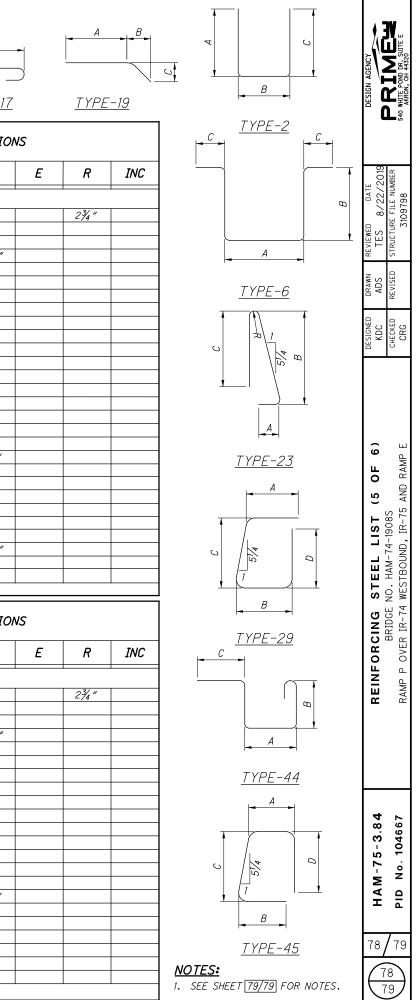
 $\bigcirc$ 

DATE DESIGN AGENCY	MBER
REVIEWED TES	STRUCTURE FILE NL 3109798
DRAWN ADS	REVISED
DESIGNED KDC	CRG CRG
REINFORCING STEEL LIST (4 OF 6)	B RAMP P OVER
HAM-75-3.84	PID No. 104667
	79

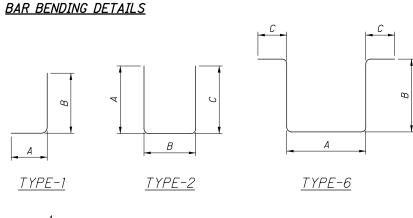
NOTES: SEE SHEET 79/79 FOR NOTES.

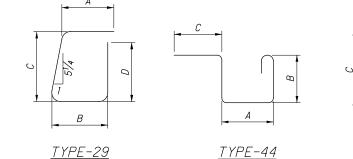
	NUMBER		WETOUT	٦C			Di	IMENSIO	NS		
MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	С	D	E	R	INC
				DE	CK SLAB	- UNTI	- ,				
15401	250	30'-0"	5010	STR			, 				
15402	156	10'-11"	1138	2	7′-9″	8″	2'-9"				
	1 SR	15'-9"		_		-					
15403	OF	TO	672	STR							21/4″
	50	24′-6″									
15404	12	3'-0"	24	STR							
1S405	160	12'-0″	1283	2	8′-3″	8″	3'-3"				
10501	705	30'-0"	9543	STR							
1\$501	305 1 SR	21'-6"	9545	518							
15502	OF	TO	1646	STR							13/4 "
10002	61	30'-3"									1/4
1S601	300	33′-11″	15283	17	32'-7″						
1S602	300	32'-7"	14682	STR							
15603	147	24'-0"	5299	STR	7/ 7/						
15604	1 SR OF	3'-11″ TO	750	16	3′-3″ TO						1'-0 <sup>1</sup> /4 "
13004	28	31'-9"	750	0	31'-1"				-		1-074
	1 SR	3'-3"			51 1		-		+		+
15605	OF	TO	722	STR							1'-01/4 "
	28	31′-1″									
15606	2	36′-4″	109	STR							
15607	3	3′-8″	17	16	3'-0"						
15608	3	3′-0″ IB-TOTAL	14 56192	STR							
MARK	NUMBER	LENGTH	WEIGHT	YPE			Dì	IMENSIO	NS		
MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	DI C	IMENSIO D	NS E	R	INC
MARK		LENGTH	WEIGHT				С		1	R	INC
	TOTAL	LENGTH			CK SLAB		С		1	R	INC
25401		30'-0" 11'-7"	<b>WEIGHT</b> 16032 6832	DE	CK SLAB		С		1	R	
25401 25402	800 883 1 SR	30'-0" 11'-7" 3'-0"	16032 6832	DEC STR 2	CK SLAB	- UNIT	C 2		1	R	
25401 25402	BOO           883           1 SR           OF	30'-0" 11'-7" 3'-0" TO	16032	<b>DE</b> STR	CK SLAB	- UNIT	C 2		1	R	<i>INC</i>
25401 25402	800 883 1 SR	30'-0" 11'-7" 3'-0"	16032 6832	DEC STR 2	CK SLAB	- UNIT	C 2		1	R	
25401 25402 25403	BOO           883           1 SR           OF           48	30'-0" 11'-7" 3'-0" TO 24'-9"	16032 6832 445	DEC STR 2 STR	CK SLAB 8'-3"	- UNIT	C 2		1	R	
MARK 25401 25402 25403 25501	BOO           883           1 SR           OF           48           976	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0"	16032 6832	DEC STR 2	CK SLAB 8'-3"	- UNIT	C 2		1	<i>R</i>	
25401 25402 25403	BOO           883           1 SR           OF           48	30'-0" 11'-7" 3'-0" TO 24'-9"	16032 6832 445	DEC STR 2 STR	CK SLAB 8'-3"	- UNIT	C 2		1	R	
25401 25402 25403 25501	BOO           883           1 SR           OF           48           976           1 SR	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 3'-0"	16032 6832 445 30539	DEC STR 2 STR STR	CK SLAB 8'-3"	- UNIT	C 2		1	<i>R</i>	51/2"
25401 25402 25403 25501 25502	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 3'-0" TO 41'-0"	16032 6832 445 30539 1354	DEC STR 2 STR STR STR	<i>CK SLAB</i> 8'-3"	- UNIT	C 2		1	<i>R</i>	51/2"
25401 25402 25403 25501 25502 25502	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59           867	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" TO 41'-0" 33'-11"	16032 6832 445 30539 1354 44167	DEC STR 2 STR STR STR 17	CK SLAB 8'-3"	- UNIT	C 2		1	<i>R</i>	51/2"
25401 25402 25403 25501 25502 25502 25601 25602	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59           867           867	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" TO 41'-0" 33'-11" 32'-7"	16032 6832 445 30539 1354 44167 42431	DEC STR 2 STR STR STR 17 STR	<i>CK SLAB</i> 8'-3"	- UNIT	C 2		1	<i>R</i>	51/2"
25401 25402 25403 25501 25502 25601 25602 25603	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59           867           867           196	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" TO 41'-0" 33'-11" 32'-7" 29'-3"	16032 6832 445 30539 1354 44167 42431 8611	DEC STR 2 STR STR STR 17 STR STR STR	<i>CK SLAB</i> 8'-3"	- UNIT	C 2		1	<i>R</i>	51/2"
25401 25402 25403 25501 25502 25601 25602 25603	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59           867           867           196           147	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 3'-0" TO 41'-0" 33'-11" 32'-7" 29'-3" 30'-5"	16032 6832 445 30539 1354 44167 42431	DEC STR 2 STR STR STR 17 STR	<i>CK SLAB</i> 8'-3" 32'-7"	- UNIT	C 2		1	R	51/2"
25401 25402 25403 25501 25502 25502 25603 25603 25604	BOO           880           883           1 SR           OF           48           976           1 SR           OF           59           867           867           196	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" TO 41'-0" 33'-11" 32'-7" 29'-3"	16032 6832 445 30539 1354 44167 42431 8611	DEC STR 2 STR STR STR 17 STR STR STR	<i>CK SLAB</i> 8'-3"	- UNIT	C 2		1	R	51/2 " 51/2 " 73/4 "
25401 25402 25403 25501 25502 25502 25603 25603 25604	BOO           880           883           1 SR           OF           48           976           1 SR           OF           48           07           867           867           196           147           1 SR	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 3'-0" TO 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5"	16032 6832 445 30539 1354 44167 42431 8611 6716	DEC STR 2 STR STR STR 17 STR STR STR	CK SLAB 8'-3" 32'-7" 32'-5"	- UNIT	C 2		1	R	51/2"
25401 25402 25403 25501 25502 25502 25603 25604 25605	BOO           800           883           1 SR           OF           48           976           1 SR           OF           48           976           1 SR           0F           59           867           867           196           147           1 SR           OF           30           1 SR	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5"	16032 6832 445 30539 1354 44167 42431 8611 6716 837	DEC STR 2 STR STR STR 17 STR STR 17	CK SLAB 8'-3" 32'-7" 32'-7" 3'-5" TO	- UNIT	C 2		1	<i>R</i>	51/2 " 51/2 " 73/4 " 111/2 "
25401 25402 25403 25501 25502 25603 25604 25605	TOTAL           800           883           1 SR           OF           48           976           1 SR           OF           48           976           1 SR           0F           59           0           867           867           196           147           1 SR           OF           30           1 SR           OF	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" 70 41'-0" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO	16032 6832 445 30539 1354 44167 42431 8611 6716	DEC STR 2 STR STR STR 17 STR STR STR	CK SLAB 8'-3" 32'-7" 32'-7" 3'-5" TO	- UNIT	C 2		1	<i>R</i>	51/2 " 51/2 " 73/4 "
25401 25402 25403 25501 25502 25603 25604 25605 25605	BOO           800           883           1 SR           OF           48           976           1 SR           OF           48           976           1 SR           0F           59           867           867           196           147           1 SR           OF           30           1 SR           OF           30	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 3'-0" TO 41'-0" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO 31'-1"	16032 6832 445 30539 1354 44167 42431 8611 6716 837 777	DEC STR 2 STR STR STR 17 STR STR 17 STR	CK SLAB 8'-3" 32'-7" 32'-7" 3'-5" TO	- UNIT	C 2		1	<i>R</i>	51/2 " 51/2 " 73/4 " 111/2 "
25401 25402 25403 25501 25502 25603 25604 25605 25606 25606	TOTAL           800           883           1 SR           OF           48           976           1 SR           OF           48           07           867           867           867           196           147           1 SR           OF           30           1 SR           OF           30           2	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" 70 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO 31'-1" 35'-11"	16032 6832 445 30539 1354 44167 42431 8611 6716 8337 7777 7777 108	DEC STR 2 STR STR STR STR STR 17 STR STR STR STR	<i>CK SLAB</i> 8'-3" 32'-7" 32'-7" 31'-1"	- UNIT	C 2		1	<i>R</i>	51/2 " 51/2 " 73/4 " 111/2 "
25401 25402 25403 25501 25502 25603 25604 25605 25605 25606 25607 25608	TOTAL           800           883           1 SR           OF           48           976           1 SR           OF           48           0           867           867           196           147           1 SR           OF           30           1 SR           OF           30           2           3	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" 70 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO 31'-1" 35'-11" 35'-11"	16032 6832 445 30539 1354 44167 42431 8611 6716 6716 8337 7777 108 17	DEC STR 2 STR STR STR STR STR STR 17 17 17 17 STR STR 16	CK SLAB 8'-3" 32'-7" 32'-7" 3'-5" TO	- UNIT	C 2		1	<i>R</i>	51/2 " 51/2 " 73/4 " 111/2 "
25401 25402 25403 25501 25502 25603 25604 25605 25605 25606 25607 25608 25609	TOTAL           800           883           1 SR           OF           48           976           1 SR           OF           48           976           1 SR           0F           59           867           867           196           147           1 SR           OF           30           1 SR           OF           30           2           3           3	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" TO 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO 31'-1" 35'-11" 35'-11" 35'-11" 35'-11"	16032 6832 445 30539 1354 44167 42431 8611 6716 8337 7777 7777 108	DEC STR 2 STR STR STR STR STR 17 STR STR STR STR	<i>CK SLAB</i> 8'-3" 32'-7" 32'-7" 31'-1"	- UNIT	C 2'-10" 2'-10"		1	<i>R</i>	51/2 " 51/2 " 73/4 " 111/2 "
25401 25402 25403 25501 25502 25603 25604 25605 25605 25606 25607 25608	TOTAL           800           883           1 SR           OF           48           976           1 SR           OF           48           0           867           867           196           147           1 SR           OF           30           1 SR           OF           30           2           3	30'-0" 11'-7" 3'-0" TO 24'-9" 30'-0" 30'-0" 70 41'-0" 33'-11" 32'-7" 29'-3" 30'-5" 4'-9" TO 32'-5" 3'-5" TO 31'-1" 35'-11" 35'-11"	16032 6832 445 30539 1354 44167 42431 8611 6716 6716 8337 7777 108 17 14	DEC STR 2 STR STR STR STR STR STR STR STR 17 STR 16 STR	CK SLAB 8'-3" 32'-7" 32'-7" 3'-5" TO 31'-1" 3'-0"	- UNIT	C 2		1	R	51/2 " 51/2 " 73/4 " 111/2 "

			D						
		-		<u>B</u> /	<u>AR BENL</u>	DING DET	T <u>AILS</u>		
					A				
		51/4	`	-		-	-	A	-
		$\sqrt{1}$							$\neg$
			B	$\subseteq$	-		$\subseteq$	_	
					TYPE-16	<u>ડ</u>	Т	YPE-17	
		<u></u>	<u>E-28</u>	-			<u> </u>		
	NUMBER						<u>م</u>		NC
MARK		LENGTH	WEIGHT	TYPE			DI	MENSIO	NS
	TOTAL			Г Г	A	В	С	D	<u> </u>
					А	Ъ	L	U	
				PA	ARAPET	- UNIT 1	1		
1R501	282	7'-4″	2157	23	11‴	3'-3"	3'-0″		
1R502	40	30′-0″	1252	STR					
1R503	4	26'-2"	109	STR				7/ 0//	
1R504 1R505	103	8'-7"	<u>922</u> 240	45	1'-0"	1'-8"	3'-3"	3'-0"	-
1R505	52 8	4′-5″ 3′-11″	33	6 2	11″ 1′-2″	1'-0" 1'-10"	1'-0" 1'-2"		-
1R507	8	4'-7"	38	2	1'-6"	1'-10"	1'-6"		-
IR508	8	5'-1"	42	44	1'-101/2"	1'-0"	1'-0"		
1R509	8	4'-0"	33	44	91/2 "	1'-0″	1'-0″		
1R511	4	17′-3″	72	STR					
1R512	36	6′-5″	241	STR					
1R513	24	13'-2"	330	STR					-
1R514 1R515	2	14'-4" 8'-9"	<u> </u>	STR STR					-
1R516	2	6'-6″	13	STR					-
1R517	2	7'-8"	16	STR					
1R518	128	4'-2"	551	44	11‴	1'-0"	1'-0″		1
1R601	385	4′-9″	2747	29	11″	1′-2 ½″	1'-7″	1′-6″	
1R602	18	6'-5"	173	STR					
1R603 1R604	12	13'-2" 14'-4"	237 22	STR STR					-
1R605	1	8'-9"	13	STR					
1R606	1	6'-6"	10	STR					
1R607	1	7′-8″	12	STR					
1R608	4	8′-5″	51	45	1'-0″	1'-8″	3′-3″	3'-0"	
1R701	4	2'-6"	20	28	11″	<u>1'-2 1/2"</u>	1/ 0//		-
1R702	4	3'-0" IR-TOTAL	25 	2	1'-0"	11″	1'-0"		
	30	<u>IB-TOTAL</u>	3407						
	NUMBER						מ	MENSIO	NC
MARK		LENGTH	WEIGHT	TYPE			01	MENSIO	NJ
	TOTAL			Г	Α	В	С	D	
						_			
				PA	RAPET	- UNIT 2	?		
2R501	816	7′-4″	6241	23	11″	3′-3″	3'-0"		
2R502	128	30'-0"	4005	STR					-
2R503 2R504	4 284	5′-7″ 8′-7″	23 2542	STR 45	1'-0"	1/_0//	31_7#	3'-0"	-
2R504 2R505		8'-1" 4'-5"	<u> </u>	45 6	11″	1'-8" 1'-0"	3′-3″ 1′-0″	5-0"	-
2R510	16	4'-7"	76	44	2'-4"	1'-0"	1'-0"		
2R511	4	32'-4"	135	STR					
2R512	112	6′-5″	750	STR					
2R513	76	13′-2″	1044	STR					
2R514	2	8'-0"	17	STR					
2R515 2R516	2	9'-2" 7'-10"		STR					
2R510 2R517	2	9'-0"	19	STR STR					
2R518	384	4'-2"	1653	44	11″	1'-0"	1'-0"		$\vdash$
2R601	1100	4′-9″	7848	29	11‴	1'-2 1/2"	1'-7″	1′-6″	
2R602	56	6′-5″	540	STR					
2R603	38	13'-2"	752	STR					-
2R604 2R605	1	8'-0" 9'-2"	<u>12</u> 14	STR STR					-
2R605 2R606	1	9'-2" 7'-10"	14 12	STR					-
2R607	1	9'-0"	14	STR					$\vdash$
						ı		1	
	.SL	IB-TOTAL	26432						



	NUMBER			۲			D.	IMENSION	vs		
MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	С	D	Ε	R	INC
					4			0	L		INC
			A	PPRC	DACH SL	.AB PARA	PET				
ASR501	24	7′-4″	184	23	11″	3′-3″	3′-0″			23/4 "	
ASR502	4	14'-4″	60	STR							
ASR503	8	24′-6″	204	STR							
ASR504	16	8'-7"	143	45	1'-0″	1′-8″	3′-3″	3'-0"			
ASR505	8	4′-5″	37	6	11″	1'-0″	1'-0″				
ASR506	16	4'-2"	70	44	11″	1'-0″	1'-0″				
ASR507	8	9′-10″	82	STR							
ASR508	8	5′-9″	48	25	1′-10″	2'-5"	1′-5″	11/2"	5″		
ASR509	8	5′-8″	47	STR							
ASR510	8	3'-1"	26	2	1′-2″	1'-0"	1'-2″				
ASR511	8	3′-9″	31	2	1′-6″	1'-0"	1′-6″				
ASR601	40	4'-9"	285	29	11″	1'-21/2"	1'-7"	1'-6"			
ASR602	2	14'-4"	43	STR		/ 2					
	4 SR	3'-11"				3'-0 1/2"					
ASR603	OF	ΤΟ	312	1	1'-0"	TO					1″
	12	4'-10"				3'-11 1/2"					
ASR604	12	4'-0"	72	1	1'-0″	3'-1 1/2"					
	SU	IB-TOTAL	1644								







0

54

В

<u>TYPE-45</u>

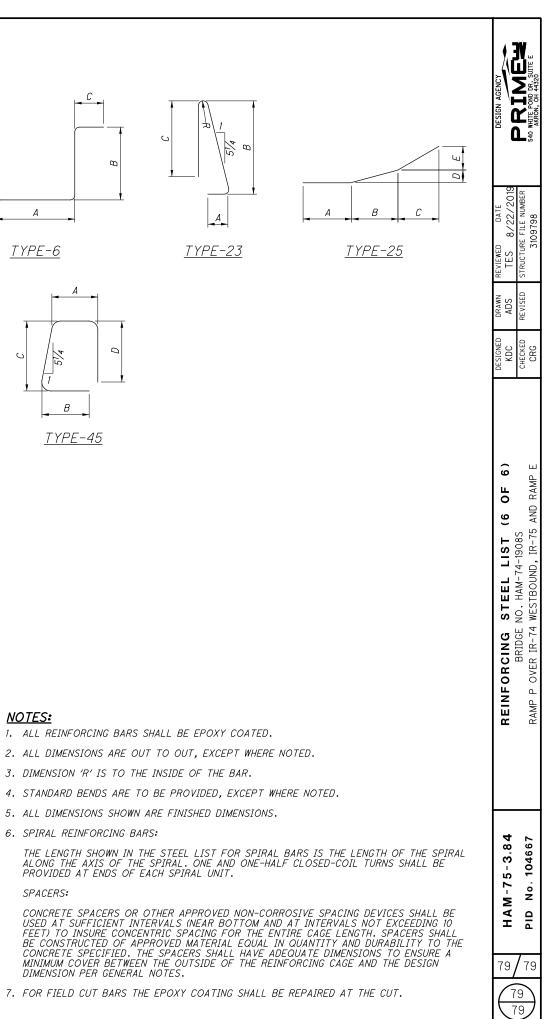
SPACERS:

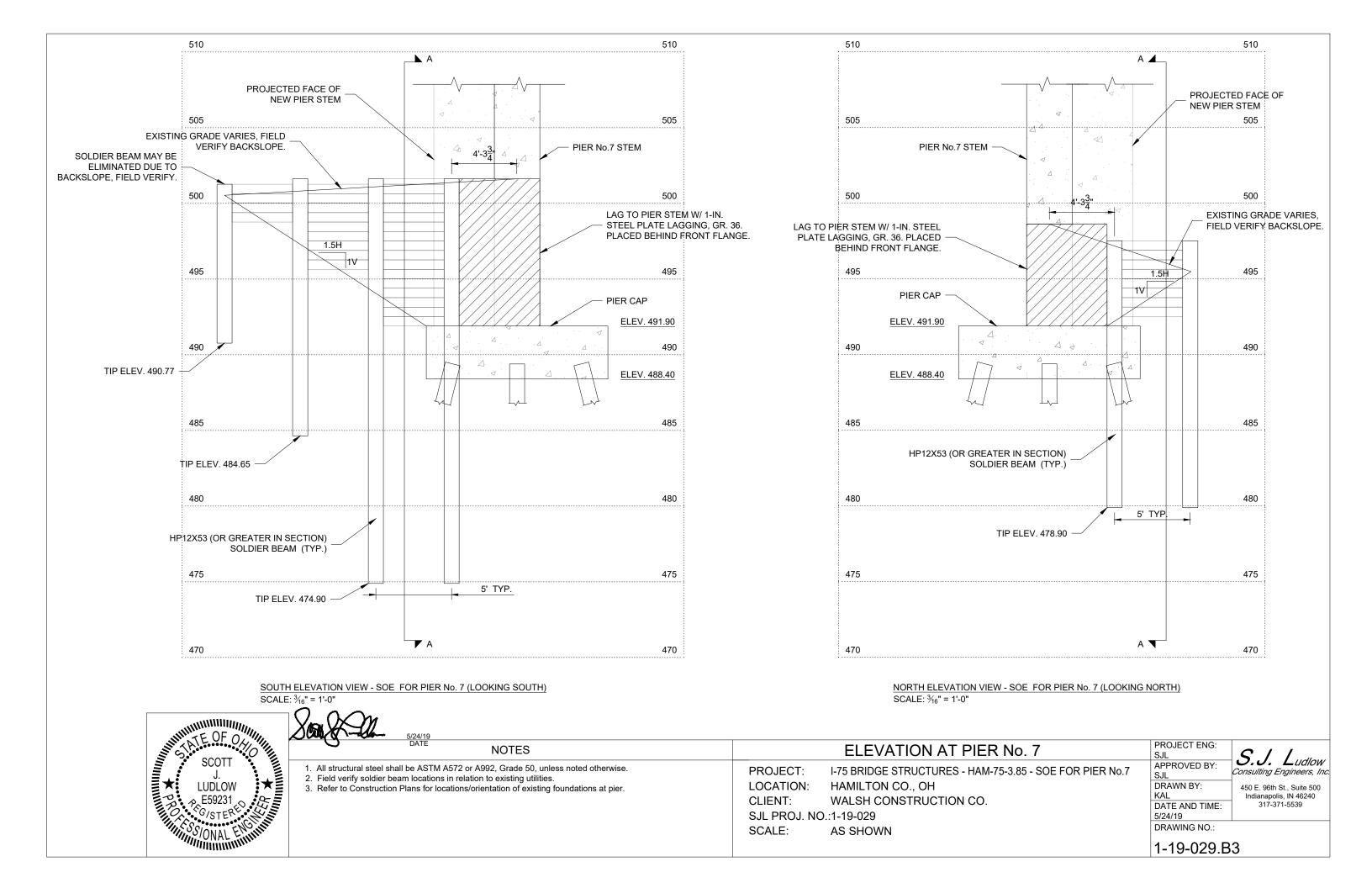
DIMENSION PER GENERAL NOTES.

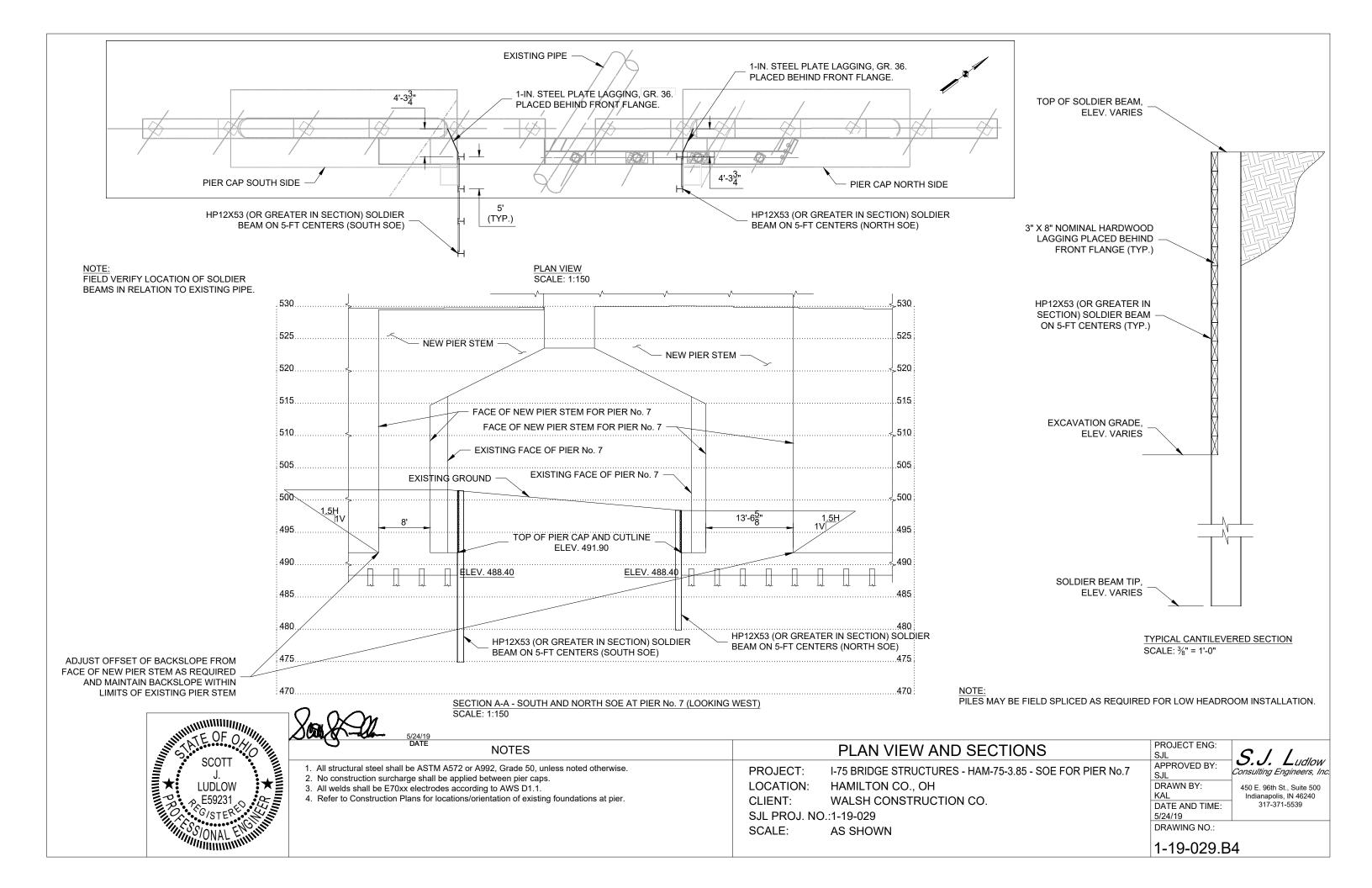
 $\bigcirc$ 

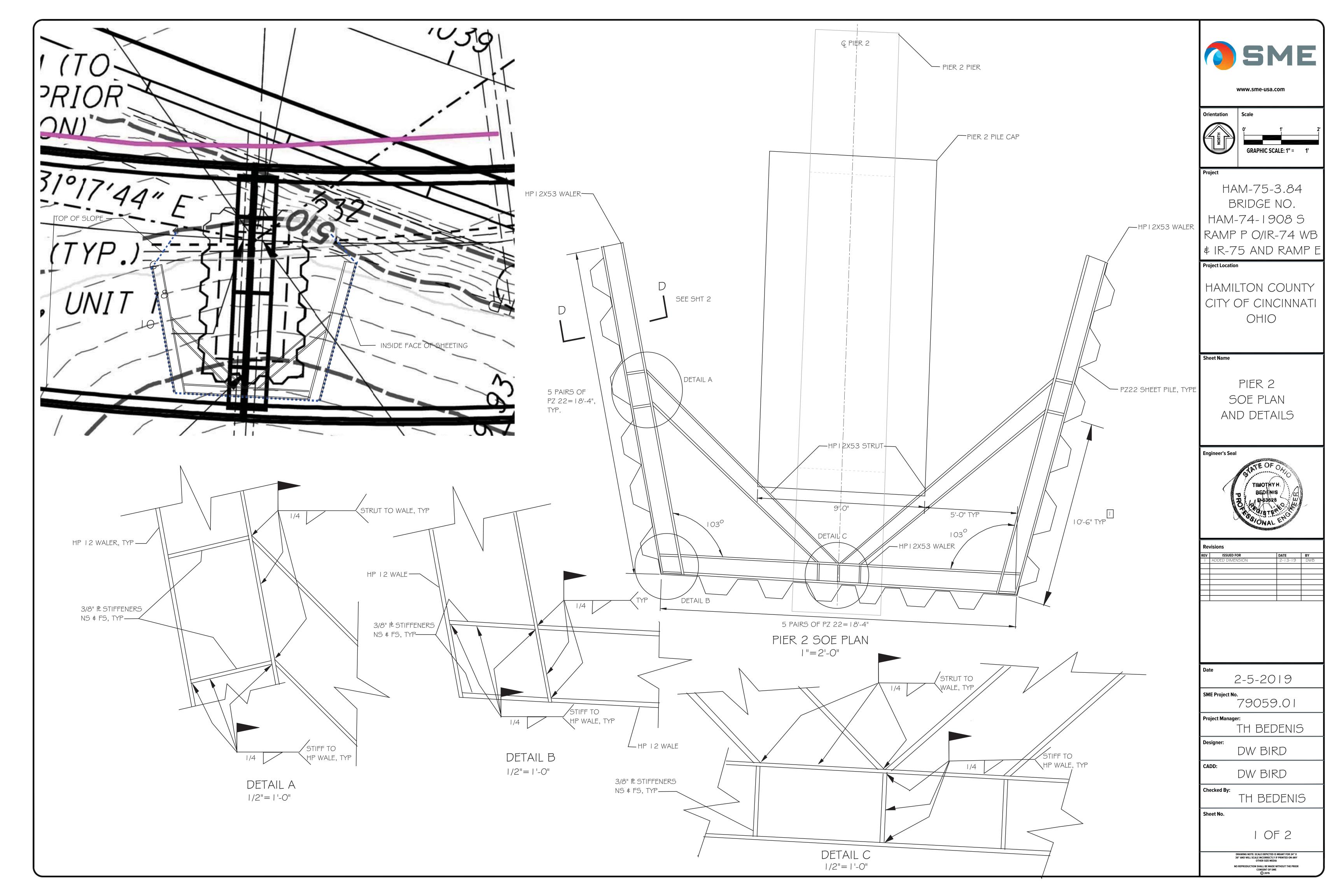
 $\bigcirc$ 

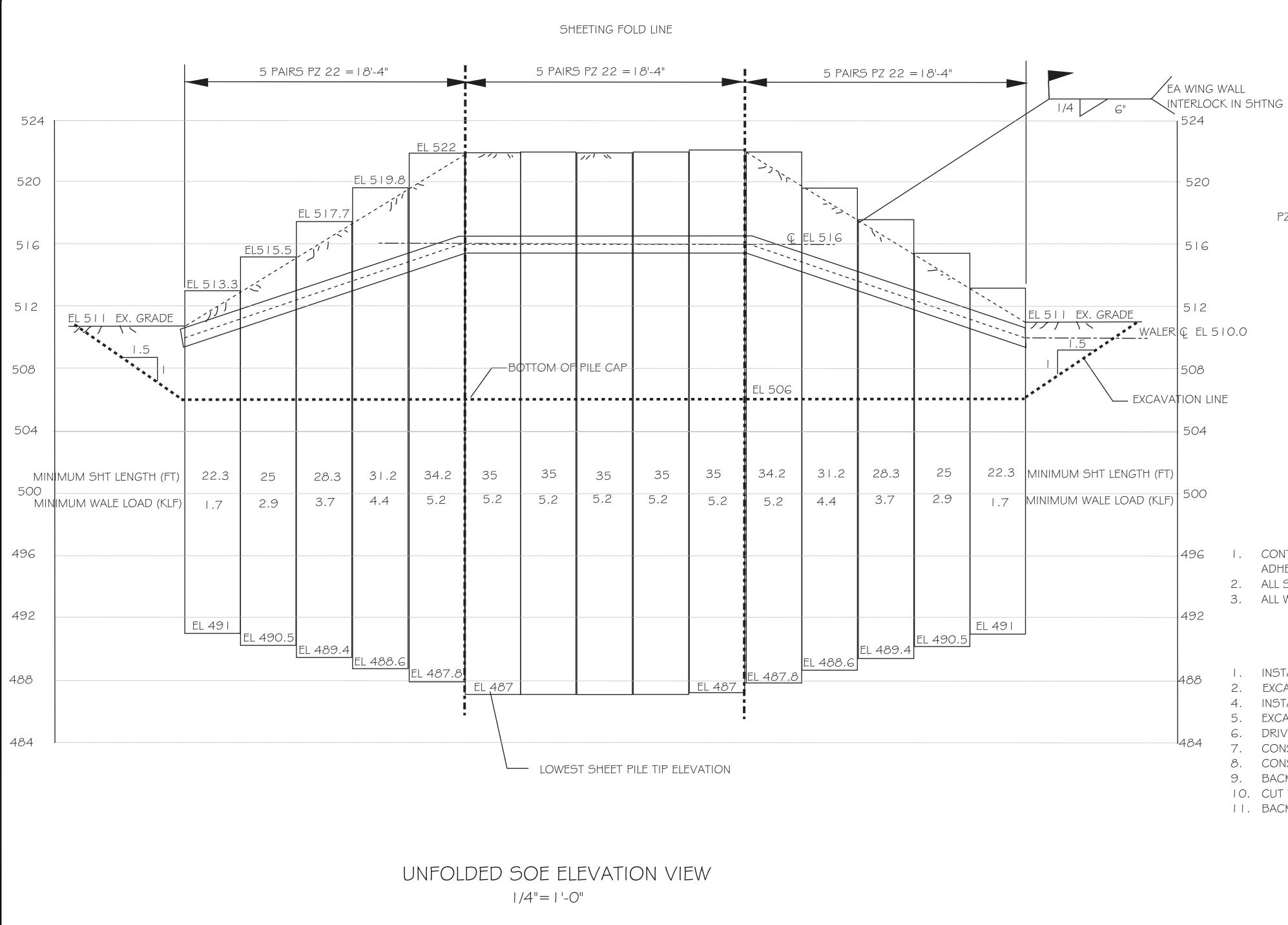
 $\bigcirc$ 

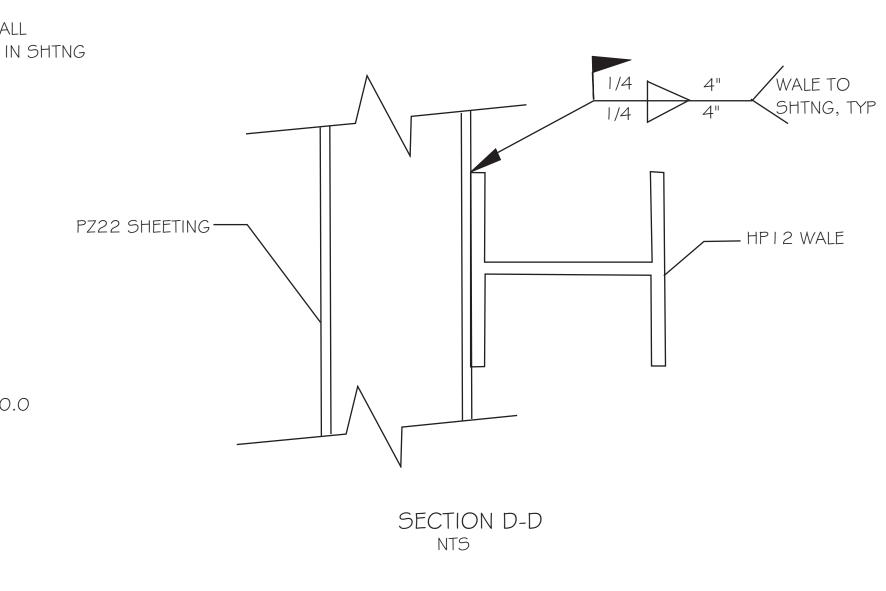












# SOE INSTALLATION CONSTRUCTION NOTES:

- ADHERENCE TO OSHA EXCAVATION SAFETY REQUIREMENTS. 2. ALL STEEL SHALL BE FURNISHED IN GR 50.

# SOE SEQUENCE OF ACTIVITIES

- I. INSTALL SOE SHEETING.
- 4. INSTALL WALERS AND CORNER BRACE STRUTS.
- 5. EXCAVATE TO ELEV 506 (BOTTOM OF PILE CAP ELEV).
- 6. DRIVE PILES TO REQUIRED CAPACITY/TIP ELEVATION.
- 7. CONSTRUCT PILE CAP.
- 8. CONSTRUCT PIER STEM.
- IO. CUT THE INTERLOCK WELDS LOOSE.
- II. BACKFILL TO FINAL GRADE AND EXTRACT SHEETING.

496 I. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY INCLUDING INSTALLATION OF FALL PROTECTION AND

3. ALL WELDING SHALL BE WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS DI.I.

2. EXCAVATE TO REQUIRED ELEVATION IN OPEN CUT AREA. EXCAVATE SHEETING AREA TO 2 FT BELOW WALE ELEV.

9. BACKFILL EXCAVATION, REMOVING BRACING WHEN BACKFILL REACHES BRACING ELEVATION.

<b>SME</b>						
www.sme-usa.com						
Orientation Scale 0' 1' 2' GRAPHIC SCALE: 1" = 1'						
Project HAM-75-3.84 BRIDGE NO. HAM-74-1908 S RAMP P O/IR-74 WB \$ IR-75 AND RAMP E Project Location						
HAMILTON COUNTY CITY OF CINCINNATI OHIO						
PIER 2 SOE ELEVATION AND NOTES						
Engineer's Seal						
Revisions       rev     issued for						
Date 2-5-2019						
SME Project No. 79059.01						
Project Manager: TH BEDENIS						
Designer: DW BIRD						
cadd: DW BIRD						
Checked By: TH BEDENIS						
Sheet No. 2 OF 2						
DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME						

# COSMEC INC. / DYNAMIC RUBBER

P.O. Box 2159 1501 Rocky Ridge Road Athens, TX 75751 TEL: 903.677.2871 FAX: 903.675.4776

PRIME AE, Group, Inc	RELEASED FOR
DATE REC'D: 8/19/2019 BUILDABLE UNIT NO.: 7	FABRICATION
Review conforms that the shop drawings meet the intent of the contract.   CONFORMS AS-IS  CONFORMS AS NOTED  REVISE AND RESEND  1908S - FIXED BEARINGS	WALSH
By: Conrad Gagnon	Ву:
Date: 8/20/2019	Date:

## TRANSMITTAL SHEET

## TO: WALSH CONSTRUCTION CO. II

ZACHARY WIRRIG ZWIRRIG@WALSHGROUP.COM

CC KATHI MILLS

DATE: 8/19/19

JOB: 183000 BRIDGE HAM-74-1908S

RE: FINAL DRAWING DISTRIBUTION

DRP JOB NO: 15353B1 LOCATION: HAMILTON COUNTY

WE TRANSMIT TO YOU UNDER SEPARATE COVER HERE WITH THE FOLLOWING DRAWINGS:

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS
15353B1-GN1	1	1	GENERAL NOTES	
15353B1-D1	2	1	SHOP DRAWINGS	
15353B1-D2	2	1	SHOP DRAWINGS	
15353B1-D3	2	1	SHOP DRAWINGS	
15353B1-D4	2	1	SHOP DRAWINGS	

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS

COMMENTS:

THE ATTACHED SHOP DRAWINGS ARE

# **PROVIDED FOR FINAL DISTRIBUTION, NO ACTION REQUIRED**

**ON YOUR PART.** 

THE ABOVE PRINTS ARE SUBMITTED TO YOU FOR:

( ) Approval
( ) Field Use
( ) Next Day Air
( ) UPS

BY:

) Final Approval ) Fabrication ) Second Day Air

) First Class Mail

(XXX) Distribution

(XXX) E-MAIL

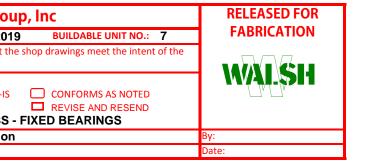
- ) Messenger
- ( ) Fax

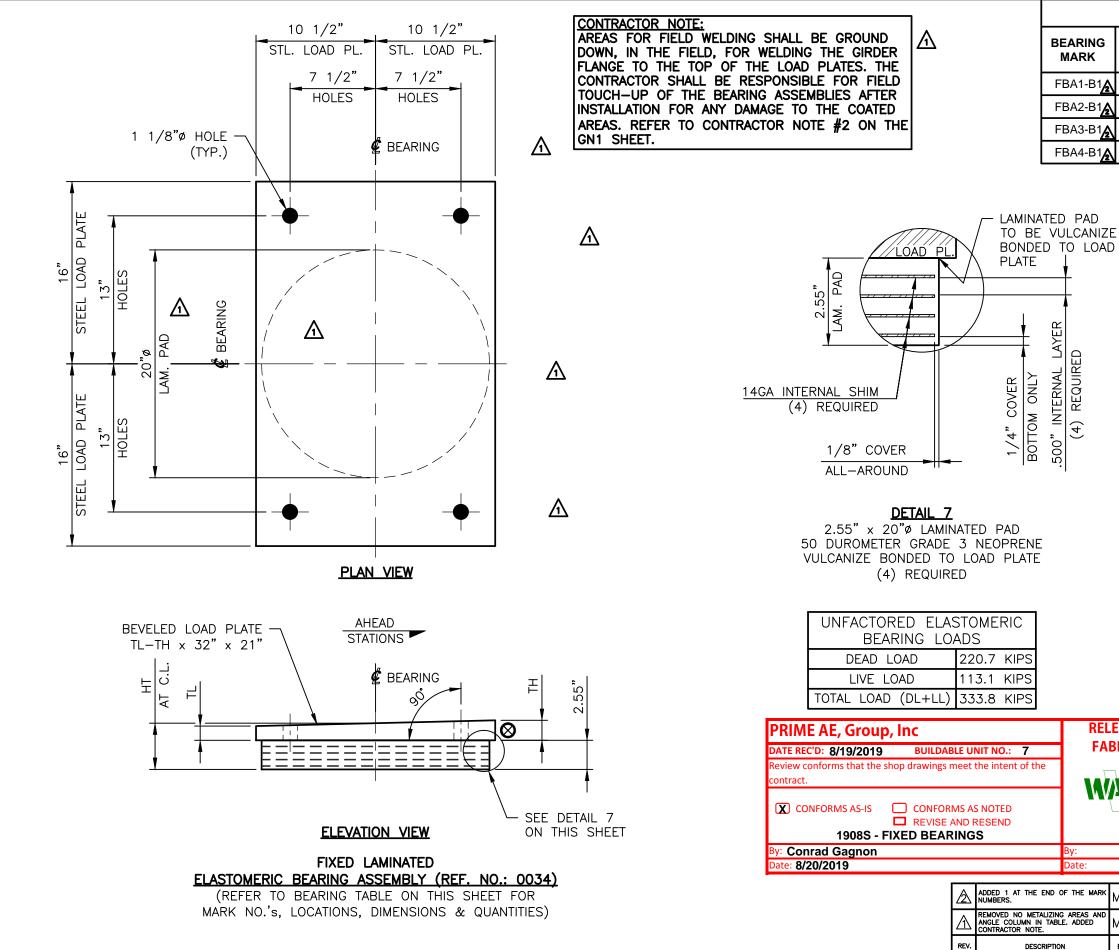
Thank you

## STEPHANIE RITZ

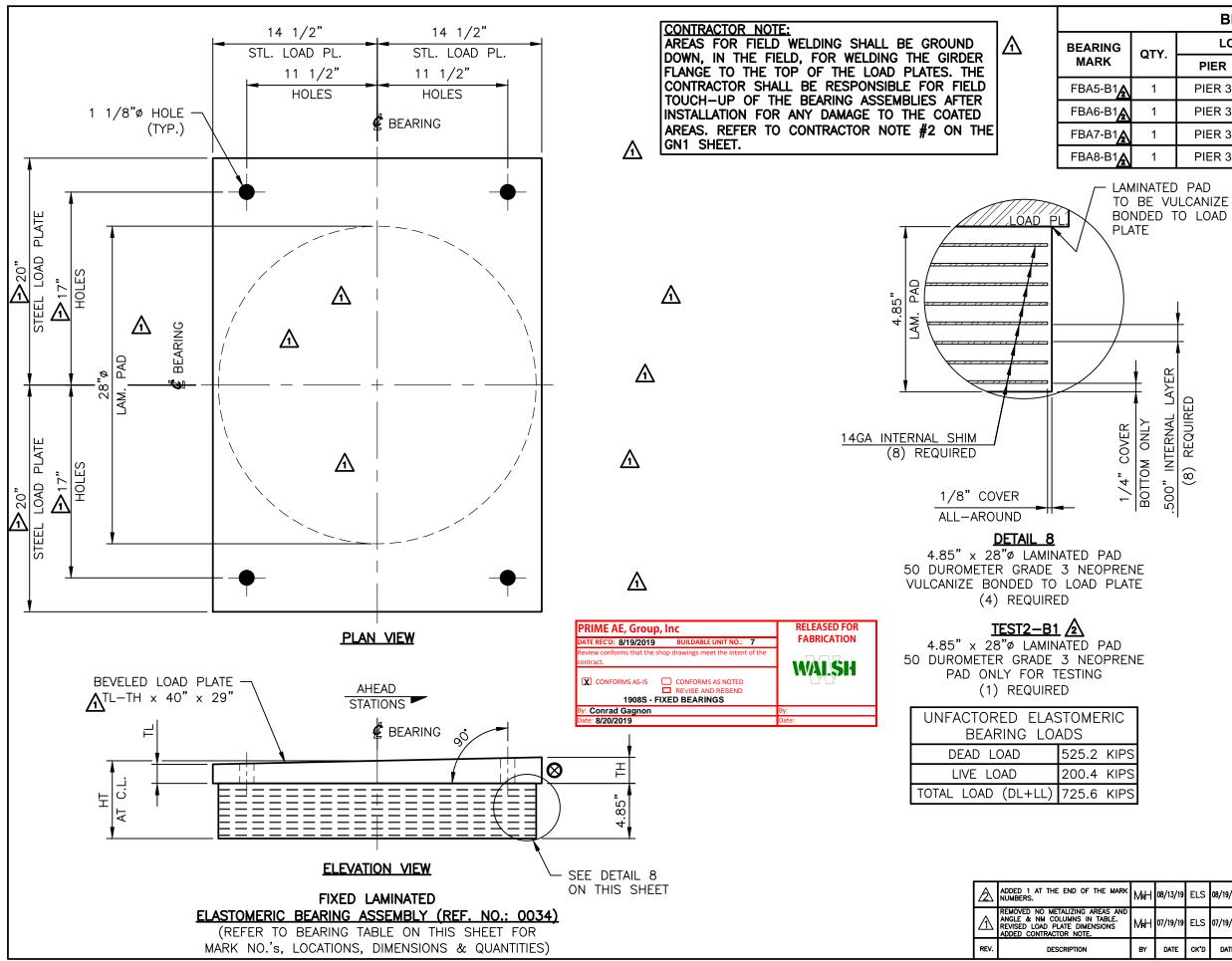
COSMEC INC. / DYNAMIC RUBBER PRODUCTS WWW.COSMECINC.COM

	GENERAL NOTES	
GENERAL NOTES:	MATERIAL NOTES:	CONTRACTOR NOTES:
1. ALL BEARINGS IN ACCORDANCE WITH THE 2016 OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES AND SUPPLEMENTAL SPECIFICATIONS 800 DATED 10/19/18, AND 869 DATED 10/17/14.	<ol> <li>ELASTOMER: 50 DUROMETER GRADE 3 NEOPRENE</li> <li>STEEL LAMINATES: ASTM A709 GRADE 36, A1011 GRADE 36, GRADE 40 OR EQUIVALENT.</li> </ol>	1. WHEN WELDING BEAM FLANGE TO SOLE PLATES, USE TEMPERATURE INDICATING WAX PEN OR OTHER SUITABLE MEANS TO INSURE THAT THE TEMPERATURE OF THE ELASTOMER DOES NOT EXCEED 250°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.
<ol> <li>SHOP TO MARK LOCATION, BEAM/GIRDER NUMBER, BEARING NUMBER, HIGH-SIDE AND AHEAD STATION AS SHOWN. MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER BEARING IS INSTALLED.</li> <li>ALL DIMENSIONS ARE IN INCHES.</li> <li>ALL PLATES SHALL BE SMOOTH AND STRAIGHT.</li> <li>SHIP THE SAMPLE BEARING TO AN INDEPENDENT TESTING LABORATORY FOR TESTING PER OH DOT STANDARD SPECIFICATIONS SECTION 711.23.</li> <li>NOTIFY THE OH DOT OFFICE OF STRUCTURAL ENGINEERING AT LEAST TWO WEEKS BEFORE STARTING SHOP FABRICATION.</li> <li>DYNAMIC RUBBER REPRESENTATIVE:</li> </ol>	<ul> <li>3. STEEL PLATES: ASTM A709 GRADE 50 (METALIZED)</li> <li>4. ALL-THREAD ANCHOR ROD: ASTM F1554 GRADE 55 (HOT-DIPPED GLAVANIZED)</li> <li>5. HVY. HEX NUT: ASTM A563-DH (HOT-DIPPED GALVANIZED)</li> <li>6. HD WASHER: ASTM F436 (HOT-DIPPED GALVANIZED)</li> </ul>	2. REPAIR DAMAGED OR FIELD WELDED METALIZED COATINGS BY METALIZING AND SEALING IN ACCORDANCE TO SUPPLEMENTAL SPECIFICATION 869. PROTECT AND MASK NON-DAMAGED OR NON-FIELD WELDED METALIZED SURFACES AND ELASTOMERIC PARTS DURING ALL REPAIRS TO PREVENT DAMAGE OR CONTAMINATION.
KATHI MILLS 903-677-2871 1501 ROCKY RIDGE RD. ATHENS, TX 75751	EINISH_NOTES: 1. BLAST EXPOSED STEEL SURFACES OF THE LOAD PLATES TO SSPC-SP5 (WHITE METAL BLAST CLEANING) PRIOR TO METALIZING. 2. THE LOAD PLATES SHALL BE METALIZED (12 MILS MIN. DFT) PER SUPPLEMENTAL SPECIFICATION 869. ▲	PRIME AE, Group, Inc.       Released For FABRICATION         Batt RECD:       8/19/2019       BUILDABLE UNIT NO.: 7         Review conforms that the shop drawings meet the intent of the contract.       Image: Conforms as NOTED       Image: Conforms as NOTED         Image: Conforms AS-IS       Image: Conforms as NOTED       Image: Conforms as NOTED       Image: Conforms as NOTED         19085 - FIXED BEARINGS       By:       Image: Conforms as NOTED       By:         Date:       8/20/2019       By:       Image: Conforms as NOTED         Date:       8/20/2019       By:       Image: Conforms as NOTED         Date:       8/20/2019       Date:       Date:         STATE OF OHIO       DEPARTMENT OF TRANSPORTATION       BRIDGE NO.: HAM-74-1908S         OVER IR-74 WB, IR-75 & RAMP E       HAM-75-3.84       CITY OF CINCINNATI         STATE       COUNTY       PID NO.       OH       HAMILTON 104667         FED.       PROJ. NO.: E170 (713)       DYNAMIC RUBBER       DO. BOX 2159       DATE       DOI NOCK 2159         Mate:       NONE       Image: Control of the Control





EO	<b>QTY.</b> 1 1 1 1	P P P	LO PIER IER 1 IER 1 IER 1 IER 1		<b>DER(s)</b> G1 G2 G3 G4	LOV ( 1 1 1	TL v side in.) 1/4 1/4 1/4 3/16	TH HIGH SIE (in.) 1 3/4 1 3/4 1 13/10 1 13/10	DE A	HT T C.L. (in.) 4.05 4.05
	1 1 1	P P P	PIER IER 1 IER 1 IER 1	GIRI	<b>DER(s)</b> G1 G2 G3	( 1 1 1 1	in.) 1/4 1/4 1/4	(in.) 1 3/4 1 3/4 1 13/10	2 2 6 2	(in.) 1.05 1.05
E	1 1	P	IER 1 IER 1		G2 G3	1	1/4 1/4	1 3/4 1 13/10	6 4	4.05
EO	1	Р	IER 1		G3	1	1/4	1 13/16	6 4	
EO		_				1				
EO	1	Р	IER 1		G4	-	3/16	1 13/16	6 4	1.08
E					4	$\overline{\mathbb{A}}$		1 10/11		1.05
				DEP#	S <sup>.</sup> Artme R <b>IDGE</b>	TAT INT C NO.:	E OF DF TR : HAN	<u>EET GN</u> OHIC ANSPO <b>1-74-</b> <b>-75 8</b>	) RTATI • <b>1908</b>	ON S
	ASED I RICATI							-3.84 Icinna	ті	
וט				ST/			COUNT		PID N	0.
				0	Н	H.	AMILT	NC	1046	67
				FED. PF						
				LAM.				UBBER Bearin		5Y.'S
				Co	sm.	ec	P.C	01 ROCKY 0. BOX 21 HENS, TEX	59	
Ν	₩ 08/13/1	'19 ELS	08/19/19	SCALE: NC		RAWN BY:	Ma		KED BY:	RB
M	₩ 07/19/1	'19 ELS	07/19/19					1535 1		07/01/19
	BY DATE	_	DATE	CUSTOMER				DR	AWING NUM	



	BEARING TABLE									
QTY.	LOCA		TL	TH	HT AT C.L. (in.)					
	PIER	GIRDER(s)	LOW SIDE (in.)	HIGH SIDE (in.)						
1	PIER 3	1	1 13/16	2 3/16	6.85					
1	PIER 3	2	1 7/8	2 1/8	6.85					
1	PIER 3	3	1 7/8	2 1/16	6.82					
1	PIER 3	4	1 15/16	2 1/16	6.85					

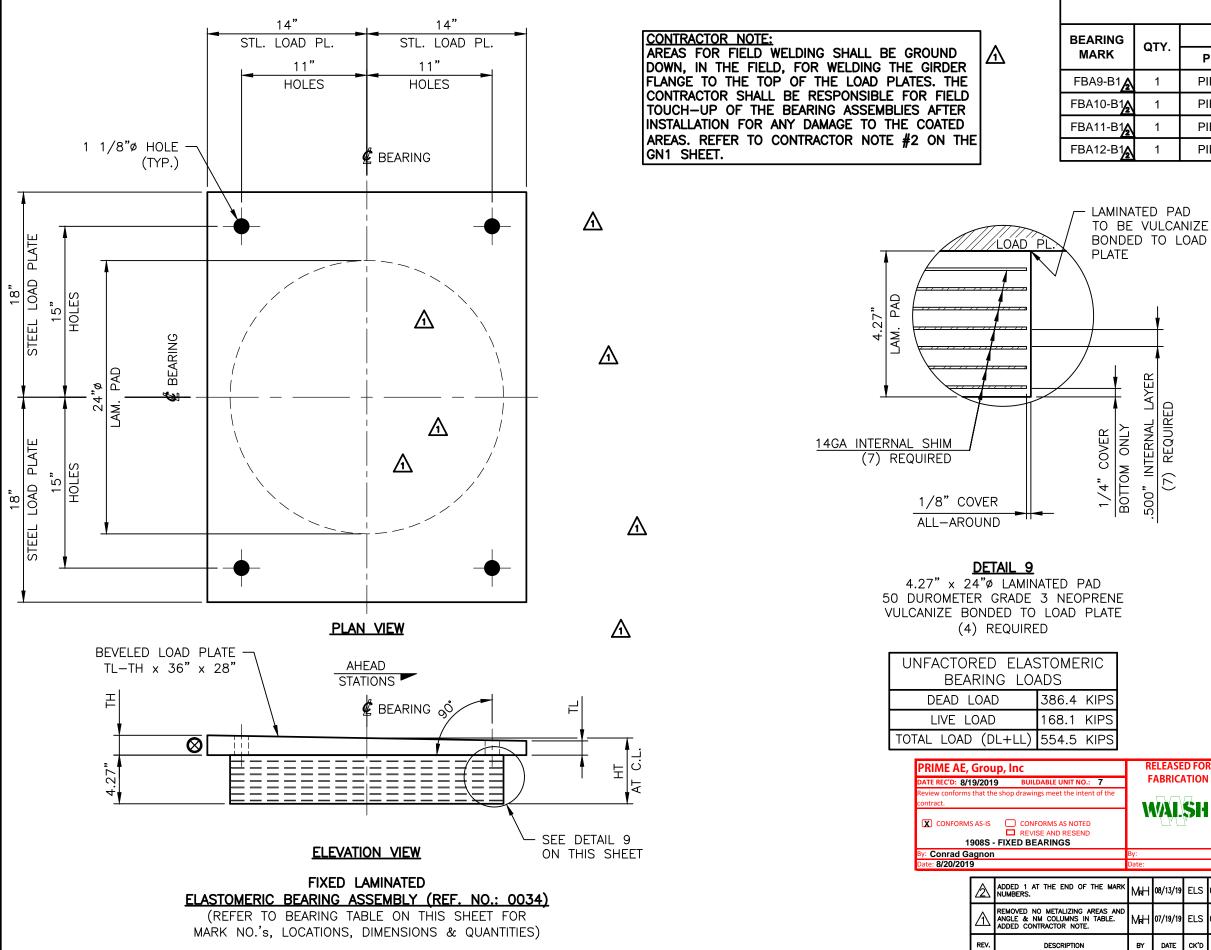
		SE	E NC	TES C	N	SHEET	GN1	OF	- 1	
								тлт		
			RIDGE	E NO.	IAM-7	74–1	908	BS	F	
			5-3.8 CINCII	34			_			
		ST	ATE		COUNTY			PID NO.		
		C	ЭН	H	HAMILTON			104667		
		FED. P	ROJ. N	IO.: E17	C) (7	13)				
		LAM.		DYNAI STOMI				AS	'SY.'S	
		C	ssn	nec	ł	1501 R P.O. BC ATHENS				
LS	08/19/19	scale: N	ONE	DRAWN BY		MaH	CHECKED		RB	_
				DATE	: (	06/11/19	DAT	E:	07/01/1	9
LS	07/19/19	SHEET 2	of 4	JOB	N	D.: 15	5353	<b>B1</b>		

DRAWING NUMBER REV. 15353B1-D2 2

CUSTOME

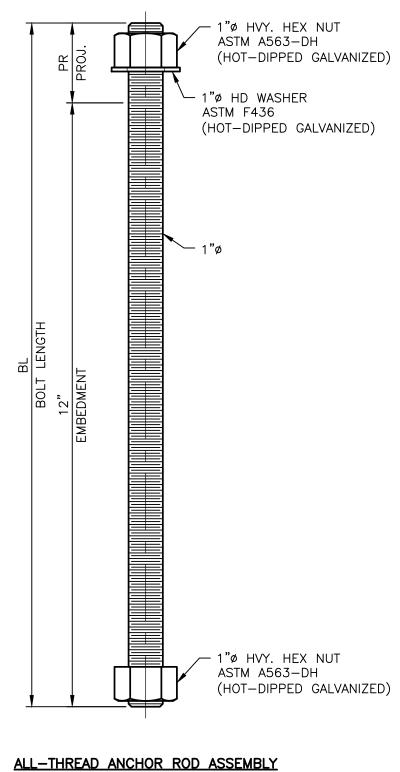
WALSH CONSTRUCTION CO. II

DATE



BEARING TABLE										
QTY.	LOCA		TH HIGH SIDE	TL LOW SIDE	HT AT C.L. (in.)					
QII.	PIER	GIRDER(s)	(in.)	(in.)						
1	PIER 4	1	1 3/4	1 1/4	5.77					
1	PIER 4	2	1 3/4	1 1/4	5.77					
1	PIER 4	3	1 3/4	1 1/4	5.77					
1	PIER 4	4	1 3/4	1 1/4	5.77					

				SEE N	OTES ON	SHEET	GN1 C	)F 1		
					STATE	OF O	HIO			
				DEPARTMENT OF TRANSPORTATION						
					BRIDGE NO.: HAM-74-1908S OVER IR-74 WB, IR-75 & RAMP E					
					HAM-7					
RELEASED FOR				STATE	cc	UNTY	PID	NO.		
F	ABRIC	TION		ОН	HAM	IILTON	104	4667		
M		<b>~</b>		FED. PROJ. NO.: E170 (713)						
V.		ווק		LAM. ELA	DYNAMI STOMER			SSY.'S		
/: ate:				Cosr	nec	P.O. BC	OCKY RIDG X 2159 , TEXAS 7			
MH	08/13/19	ELS	08/19/19		DRAWN BY:	MiH	CHECKED BY			
				scale: NONE	DATE:	06/11/19	DATE:	07/01/19		
MH	07/19/19	ELS	07/19/19	SHEET 3 OF 4	JOB N	0.: 1	5353B	1		
BY	DATE	CK'D	DATE	CUSTOMER WALSH CONS	TRUCTION CO	D. II	drawing 1 15353B	NUMBER REV. 1-D3 2		

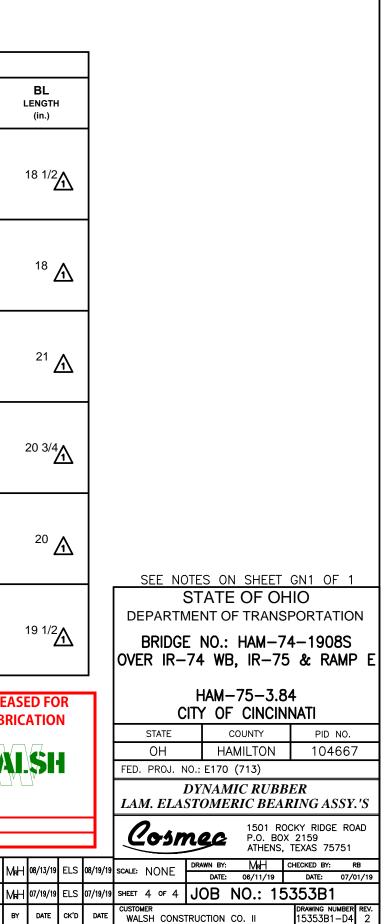


		AN	CHOR BOLT	TABLE		
BEARING	ANCHOR	QTY.	LOCA	TION	PR	
MARK	MARK	PIER		GIRDER(s)	PROJECTION (in.)	
FBA1-B1 🔬		2		G1		
FBA2-B1 🔬	AB2-B1	2	PIER 1	G2	6 1/2	
FBA3-B1 🔬	(HIGH SIDE)	2		G3	<sup>6 1/2</sup>	
FBA4-B1 🔬		2		G4		
FBA1-B1 🔬	(LOW SIDE)	2		G1		
FBA2-B1 🛕		2	PIER 1	G2	6 🔨	
FBA3-B1 🔬		2	FIERI	G3	° 🔬	
FBA4-B1 🔬		2		G4		
FBA5-B1 🔬	AB4-B1	2		G1		
FBA6-B1 🔬		2	PIER 3	G2	9 🔨	
FBA7-B1 🔬		2		G3	Å 🕺	
FBA8-B1 🔬		2		G4		
FBA5-B1 🔬		2		G1		
FBA6-B1 🔬	АВ5-В1	2	PIER 3	G2	9 2/4	
FBA7-B1 🔬	(LOW SIDE)	2	FIER 5	G3	<sup>8 3/4</sup>	
FBA8-B1 🔬		2		G4		
FBA9-B1 🔬		2		G1		
FBA10-B1	Ав6-в1	2	PIER 4	G2	8 🔨	
FBA11-B1	(HIGH SIDE)	2		G3	° 🔬	
FBA12-B1		2		G4		
FBA9-B1 🔬	Ав7-в1	2		G1		
FBA10-B1		2	PIER 4	G2	71/2	
FBA11-B1	(LOW SIDE)	2		G3	<sup>7 1/2</sup> \Lambda	
FBA12-B1		2		G4		

PRIME AE, Group, Inc	REL
DATE REC'D: 8/19/2019 BUILDABLE UNIT NO	.: 7 FAI
Review conforms that the shop drawings meet the int	ent of the
contract.	
CONFORMS AS-IS CONFORMS AS NOTE	
1908S - FIXED BEARINGS	5
By: Conrad Gagnon	By:
Date: 8/20/2019	Date:

	ADDED 1 AT THE END OF THE MARK NUMBERS.	۱
$\triangle$	REVISED DIMENSIONS PER CONTRACTOR.	۱
REV.	DESCRIPTION	

1"Ø × BL ASTM F1554 GRADE 55 (HOT-DIPPED GALV.) (SEE ANCHOR BOLT TABLE ON THIS SHEET FOR MARK NO.'s, LOCATIONS, DIMENSIONS & QUANTITIES)



### **COSMEC INC. / DYNAMIC RUBBER**

P.O. Box 2159 1501 Rocky Ridge Road Athens, TX 75751 TEL: 903.677.2871 FAX: 903.675.4776

### TRANSMITTAL SHEET

TO: WALSH CONSTRUCTION CO. II

DATE: 8/19/19

REV NO

RACE SHARRETT RSHARRETT@WALSHGROUP.ONMICROSOFT.COM

CC KATHI MILLS

JOB: 183000 BRIDGE HAM-74-1908S

RE: SHOP DRAWING RE-SUBMITTAL

DRP JOB NO: 15353C LOCATION: HAMILTON COUNTY

				TO TOU UNDER GET ARATE COVER	
DWG	REV	NO	DESCRIPTION	REMARKS	
NO	NO	EACH			
15353C-GN1	1	1	GENERAL NOTES	1	15:
15353C-CAP1	1	1	CAPACITY SHEET	1	15:
15353C-E1	1	1	ERECTION SHEET	1:	53
15353C-D1	1	1	SHOP DRAWING	1:	53
15353C-D2	0	1	SHOP DRAWING		
15353C-D3	1	1	SHOP DRAWING		
15353C-D4	1	1	SHOP DRAWING		
15353C-D5	1	1	SHOP DRAWING		
15353C-D6	1	1	SHOP DRAWING		
15353C-D7	1	1	SHOP DRAWING		
15353C-D8	0	1	SHOP DRAWING		
15353C-D9	0	1	SHOP DRAWING		
15353C-D10	1	1	SHOP DRAWING		
15353C-D11	1	1	SHOP DRAWING		
15353C-D12	1	1	SHOP DRAWING		
÷					_

WE TRANSMIT TO YOU UNDER SEPARATE COVER HERE WITH THE FOLLOWING DRAWINGS:

DWG

DESCRIPTION REMARKS NO NO EACH 5353C-D13 1 1 SHOP DRAWING 5353C-D14 1 1 SHOP DRAWING 53535C-D15 1 1 SHOP DRAWING 53535C-D16 0 1 SHOP DRAWING 13 1 150K NGE CALCS 1 13 250K NGE CALCS 1 13 390K NGE CALCS 20 150K GE CALCS 1 1 20 250K GE CALCS 1 20 390K GE CALCS 1 1 ANCHOR BOLT CALCS 1 1 ANCHOR BOLT LENGTHS

COMMENTS:

THE ATTACHED SHOP DRAWINGS ARE

**RE-SUBMITTED FOR APPROVAL. PLEASE FORWARD THIS** 

PACKAGE TO THE ENGINEER FOR REVIEW AND ADVISE

THE APPROVAL STATUS AS SOON AS POSSIBLE.

THE ABOVE PRINTS ARE SUBMITTED TO YOU FOR:

BY:

(XXX) Approval ( ( ) Field Use ( ( ) Next Day Air ( ( ) UPS ( 
 ) Final Approval
 ( ) Distribution

 ) Fabrication
 (XXX)

 ) Second Day Air
 ( ) Messenger

) First Class Mail ( ) Fax

Thank you

STEPHANIE RITZ

COSMEC INC. / DYNAMIC RUBBER PRODUCTS

WWW.COSMECINC.COM

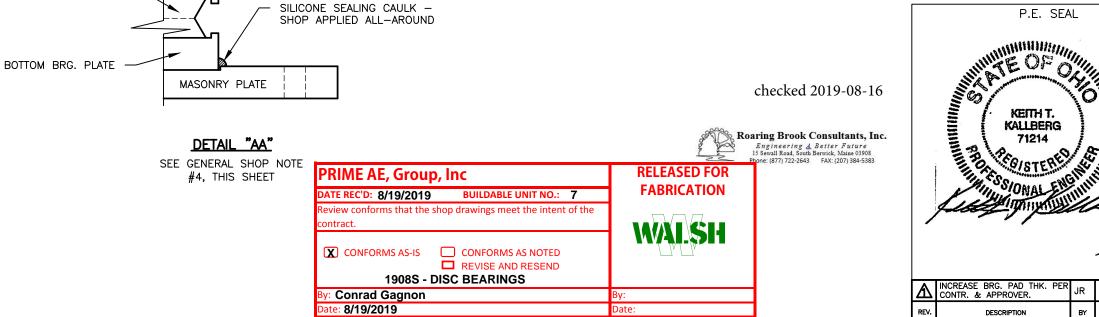
### **GENERAL SHOP NOTES:**

URETHANE DISC

- 1. BEARING IS TO BE PROTECTED FROM MOISTURE AND DUST DURING SHIPMENT, STORAGE, AND ERECTION.
- 2. ALL STEEL BEARING COMPONENTS SHALL BE BLAST CLEANED TO SSPC-SP10 (NEAR-WHITE METAL BLAST CLEAN) AND THEN METALLIZED & SEAL COATED PER ODOT SUPPLEMENTAL SPEC. 869.13. AREAS NOTED AS "NO COATING" OR "DO NOT COAT" SHALL NOT BE METALLIZED. INTERNAL UNEXPOSED SURFACES DO NOT NEED METALLIZING EXCEPT AS NOTED ON THESE SHOP DRAWINGS.
- 3. ALL FREE EDGES OF PLATES TO BE COATED SHALL BE ROUNDED TO A 1/16 INCH RADIUS, OR SHALL HAVE THE EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE.
- 4. RECESS IN MASONRY PLATE FOR THE BOTTOM BEARING PLATE IS TO BE SHOP SEALED ALL-AROUND WITH A SILICONE CAULK AS SHOWN IN DETAIL "AA", THIS SHEET.
- 5. ALL MATERIALS & FABRICATION SHALL BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 869.
- 6. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 7. ALL TESTING SHALL BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 869.
- 8. COSMEC, INC. REPRESENTATIVES: KATHI MILLS (903) 677–2871 (kmills@cosmecinc.com) JOHN A. RITZ – (903) 677–2871 (iritz@cosmecinc.com)
  - (WEBSITE: www.cosmecinc.com)

### **GENERAL INSTALLATION NOTES:**

BEARING ASSEMBLIES SHALL NOT BE LIFTED BY THEIR TOP OR 1. NOTE SOLE PLATES. ANY HANDLING SHALL SUPPORT THE BEARING UNIT FROM THE MASONRY PLATE AND BE LIFTED AND SET FLAT AND LEVEL AT ALL TIMES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFE AND PROPER LIFTING, SETTING, AND INSTALLATION OF THE BEARING ASSEMBLIES AND ANCHOR BOLTS. REMOVE CLAMPING BANDS AFTER THE BEARING HAS BEEN 2. NOTE POSITIONED AT ITS PERMANENT LOCATION AND PRIOR TO ERECTION OF THE SUPERSTRUCTURE. THE CONTRACTOR IS TO ROTATE THE SOLE PLATE AFTER THE 3. NOTE BEARING ASSEMBLY HAS BEEN SET ON THE BEARING SEAT SO THAT THE SOLE PLATE IS PARALLEL WITH THE GIRDER BOTTOM FLANGE. CONTRACTOR IS TO MAKE SURE THE AHEAD STATION ARROWS ON THE SOLE PLATES ARE ORIENTED IN THE CORRECT DIRECTION. PROPER SETTING OF THE BEARING ASSEMBLIES IS SOLELY THE CONTRACTOR'S RESPONSIBILITY. DISASSEMBLY OF BEARING UNITS SHALL NOT BE DONE WITHOUT 4. NOTE WRITTEN AUTHORIZATION FROM COSMEC INC. UNAUTHORIZED DISASSEMBLY COULD RESULT IN FAILURE OF THE BEARING UNIT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CORRECT 5. NOTE BEARING SEAT ELEVATIONS. CONTRACTOR SHALL ADJUST BEARING SEAT ELEVATIONS TO ACCURATELY REFLECT HEIGHTS OF BEARINGS SUPPLIED. THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD TOUCH UP OF 6. NOTE THE BEARING ASSEMBLIES AFTER INSTALLATION FOR ANY DAMAGE TO THE COATED SURFACES DURING INSTALLATION. DO NOT ALLOW WELDING CURRENT TO PASS THRU THE INTERNAL 7. NOTE COMPONENTS OF THE BEARINGS. MAKE SURE THAT THE GROUNDING LEADS ARE POSITIONED FOR THE FIELD WELDING TO PREVENT THIS. CURRENT PASSING THRU THE INTERNAL COMPONENTS WILL DAMAGE THE BEARING. DO NOT ALLOW THE BEARING SOLE PLATE TO EXCEED 250°F OR 8. NOTE DAMAGE TO THE PTFE OR URETHANE DISC MAY RESULT. CHECK THE TEMPERATURE WHEN FIELD WELDING TO INSURE THIS TEMPERATURE IS NOT EXCEEDED. CONTRACTOR TO KEEP THE BEARINGS PROTECTED FROM 9. NOTE MOISTURE AND DUST DURING STORAGE AND ERECTION.



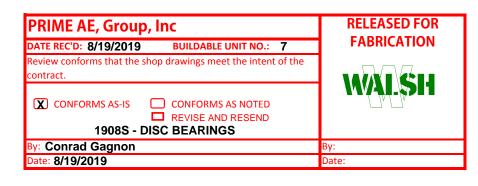
MATERIALS	SPECIFICATIONS
STRUCTURAL STEEL	ASTM A709 GR.50 (UNO)
STAINLESS STEEL	11 GA. ASTM A240 TYPE 304 w/POLISHED #8 MIRROR FINISH
PRIMARY PTFE	AASHTO 1/4" VIRGIN UNFILLED CONFORMING TO AASHTO 18.8.2 "MATERIALS"
GUIDE PTFE	AASHTO 1/4" VIRGIN UNFILLED CONFORMING TO AASHTO 18.8.2 "MATERIALS"
POLYETHER URETHANE DISC	COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO LRFD BRIDGE CONSTRUCTION TABLE 18.3.2.8–1
SHEAR PIN	ASTM A240/A276 UNS S21800 STEEL (OR EQUIVALENT)
ANCHOR BOLTS	ASTM F1554 GRADE 55, GALV.
PREFORMED BEARING PADS	A 1/4" THICK PREFORMED FABRIC PAD PER C&MS 711.21

SEE SHEETS 1 THRU 16 FOR BEARING DETAILS SEE SHEET E1 FOR ERECTION TABLE SEE SHEET CAP1 FOR BEARING CAPACITY DETAILS

**GENERAL NOTES SHEET** 

### STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P HAMILTON COUNTY, OH STATE COUNTY PID NO. OН HAMILTON 104667 FED. AID PROJ. NO.: E170 (713) COSMEC INC.: DISC BEARINGS ASSEMBLIES 1501 ROCKY RIDGE ROAD Cosmec P.O. BOX 2159 ATHENS, TEXAS 75751 CHECKED BY: MCM JR SCALE: NONE DATE: 6/26/19 DATE: 7/5/19 SHEET GN1 OF 1 JOB NO.: 15353C 8/8/19 ELS 8/12/19 CUSTOME RAWING NUMB DATE CK'D DATE WALSH CONSTRUCTION 15353C-GN1 1

CAPACITY TABLE	150 kip GUIDED EXP. BEARING	250 kip GUIDED EXP. BEARING	390 kip GUIDED EXP. BEARING		
DESIGN VERTICAL LOAD (MAX.)	150 kips	250 kips	390 kips		
DESIGN LATERAL LOAD (MAX.)	A 38 kips	63 kips	98 kips		
DESIGN MOVEMENT LONGITUDINAL TRANSVERSE	1.38 in. 0.25 in.	3.25 in. 0.25 in.	3.75 in. 0.50 in.		
DESIGN ROTATION (rads)	0.030 rads	0.030 rads	0.030 rads		
DESIGN COEFFICIENT OF FRICTION	3.5% MAX.	3.5% MAX.	3.5% MAX.		
COMPRESSIVE STRESS ON PRIMARY PTFE @ DESIGN CAPACITY	3.40 ksi	3.35 ksi	3.45 ksi		
COMPRESSIVE STRESS ON URETHANE DISC @ DESIGN CAPACITY	4.90 ksi	<b>4.87</b> ksi	<b>4.91</b> ksi		
CAPACITY TABLE	150 kip NON-GUIDED EXP. BEARING	250 kip NON-GUIDED EXP.BEARING	390 kip NON–GUIDED EXP. BEARING		
DESIGN VERTICAL LOAD (MAX.)	150 kips	250 kips	390 kips		
DESIGN LATERAL LOAD (MAX.)	15 kips	25 kips	40 kips		
DESIGN MOVEMENT LONGITUDINAL TRANSVERSE	1.50 in. 1.50 in.	3.25 in. 1.50 in.	3.75 in. 1.50 in.		
DESIGN ROTATION (rads)	0.030 rads	0.030 rads	0.030 rads		
DESIGN COEFFICIENT OF FRICTION	3.5% MAX.	3.5% MAX.	3.5% MAX.		
COMPRESSIVE STRESS ON PRIMARY PTFE © DESIGN CAPACITY	3.40 ksi	3.35 ksi	3.45 ksi		
COMPRESSIVE STRESS ON URETHANE DISC @ DESIGN CAPACITY	4.95 ksi	4.92 ksi	4.96 ksi		



KETTH KALLF KALLF KALLF 7 SIONA REDESIGN FOR HIGHER GE HORIZ. LOADS PER APPROVER. JR

DESCRIPTION

P.E. SEAL

checked 2019-08-16







REV.

SEE SHE	ET GN1	FOR	GENERAL	NOTES
AND	MATERI	AL SP	ECIFICATIO	NS

CAPACITY TABLES

-					-	E OF O F TRANS	HIO SPORTATION				
BRIDGE NO. HAM-74-1908S RAMP P HAMILTON COUNTY, OH STATE COUNTY PID NO. OH HAMILTON 104667 FED. AID PROJ. NO.: E170 (713) COSMEC INC.: DISC BEARINGS ASSEMBLIES											
A STATEMENT	HAMILTON COUNTY, OH										
				STATE	PID NO.						
		3		ОН	H.	HAMILTON 104667					
2.	53			FED. AID PRO	J. NO.: E	170 (71	3)				
NGI	Innin			DISC I		MEC INC NGS ASS	'.: EMBLIES				
		Ľ,	1	Cosn	nec	P.O. BO	OCKY RIDGE ROAD X 2159 , TEXAS 75751				
	/			scale: NONE	DRAWN BY:	JR	CHECKED BY: MCM				
					DATE:	6/26/19	DATE: 7/5/19				
JR	8/8/19	ELS	8/12/19		<u> JOB</u>	<u>NU.: 15</u>					
BY	DATE	CK'D	DATE	CUSTOMER: WALSH CONST	RUCTION		DRAWING NUMBER REV. 15353C-CAP1 1				

	Bearing Description										Height		Bearing Seat Elevation Changes Required			
					Decise	Desire	Max	TOTAL	TOTAL	Dim. "EH"	Dim. "TH"	Dim. "H"	REVIEW AND	NTRACTOR AN VERIFY ALL B	EARING SEAT	
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.	Design Vertical Load (kips)	Design Horizontal Load (kips)	Max. Design Rotation (rads)	Design Longit. Mvmnt. (in.)	Design Transv. M∨mnt. (in.)	Total Brg. Height (excl. Brg. Pad) (in.)	Total Brg. Height (in.)	Height as per EOR (Original Design Plans) (in.)	Difference ("TH" - "H") (in.)	Bearing Seat Elevation Change Required (in.)	Bearing Seat Elevation Change Required (ft.)	
NGE1C	Exist. Pier 7	Unit 1	G1	1	150	15	0.030	1.500	1.500	7.125	7.37 <mark>5 </mark>	3.720	3.655	-3.655	- <mark>0.3</mark> 05	$\sum$
GE1C	Exist. Pier 7	Unit 1	G2	1	150	38 🔬	0.030	1.380	0.250	8.281	8.5 <mark>31</mark>	5.834	2 <mark>.69</mark> 7	-2.697	<mark>-0.</mark> 225	Į
GE2C	Exist. Pier 7	Unit 1	G3	1	150	<mark>38</mark> \Lambda	0.030	1.380	0.250	8.281	8.5 <mark>31</mark>	5.834	2 <mark>.69</mark> 7	-2.697	<mark>-0</mark> .225	
NGE2C	Exist. Pier 7	Unit 1	G4	1	150	15	0.030	1.500	1.500	7.125	7.3 <mark>75</mark>	3.720	> 3 <mark>.65</mark> 5	-3.655	<mark>-0</mark> .305	1
NGE3C	Pier 2	Unit 1	G1	1	150	15	0.030	1.500	1.500	7.125	7.37 <mark>5 </mark>	3.720	3 <mark>.65</mark> 5	-3.655	<mark>-0</mark> .305	
GE3C	Pier 2	Unit 1	G2	1	150	38 \Lambda	0.030	1.380	0.250	8.281	8.53 <mark>1 </mark>	5.834	2 <mark>.6</mark> 97	-2.697	<mark>-0</mark> .225	
GE4C	Pier 2	Unit 1	G3	1	150	<mark>38</mark> ▲	0.030	1.380	0.250	8.281	8.53 <mark>1 🕂</mark>	5.834	2 <mark>.6</mark> 97	-2.697	<mark>-0.</mark> 225	
NGE4C	Pier 2	Unit 1	G4	1	150	15	0.030	1.500	1.500	7.125	7.37 <mark>5 </mark>	3.720	<mark>3.6</mark> 55	-3.655	<mark>-0.</mark> 305	
NGE5C	Pier 2	Unit 2	G1	1	390	40	0.030	3.750	1.500	7.160	7.41 <mark>0 </mark>	6.660	<mark>0.7</mark> 50	-0.750	- <mark>0.0</mark> 63	1
GE5C	Pier 2	Unit 2	G2	1	390	9 <mark>8 </mark>	0.030	3.750	0.500	9.2 <mark>50</mark>	9.50 <mark>0 </mark>	8.714	0.786	-0.786	- <mark>0.0</mark> 66	)
GE6C	Pier 2	Unit 2	G3	1	390	<mark>. 98</mark>	0.030	3.750	0.500	9. <mark>250</mark> \Lambda	9.50 <mark>0 </mark>	8.714	0.786	-0.786	- <mark>0.0</mark> 66	<
NGE6C	Pier 2	Unit 2	G4	1	390	40	0.030	3.750	1.500	7.160	7.4 <mark>10</mark>	6.660	<mark>0</mark> .750	-0.750	- <mark>0.0</mark> 63	)
NGE7C	Fwd. Abut.	Unit 2	G1	1	250	25	0.030	3.250	1.500	7.105	7. <mark>35</mark> 5 \Lambda	6.020	1.335	-1.335	-0 <mark>.1</mark> 11	<
GE7C	Fwd. Abut.	Unit 2	G2	1	250	63 🕂	0.030	3.250	0.250	8.450	8 <mark>.70</mark> 0 🛕	8.714	-0.014	+0.014	+0 <mark>.0</mark> 01	)
GE8C	Fwd. Abut.	Unit 2	G3	1	250	<mark>63</mark> \Lambda	0.030	3.250	0.250	<mark>8.</mark> 450 ∕∕	<mark>8.7</mark> 00 <u> </u>	8.714	-0.014	+0.014	+0 <mark>.00</mark> 1	{
NGE8C	Fwd. Abut.	Unit 2	G4	1	250	25	0.030	3.250	1.500	7.105	7.355 A	6.020	1.335	-1.335	-0.111	

# CONTRACTOR AND EOR NOTE:

PLEASE REVIEW AND VERIFY ALL BEARING HEIGHT DIFFERENCES AND REQUIRED BEARING SEAT ELEVATION CHANGES NOTED IN TABLE "HT1". CONTRACTOR IS SOLELY RESPONSIBLE FOR INSURING THE BEARINGS SEAT ELEVATIONS AND ANCHOR BOLT LAYOUTS ARE CORRECT FOR THE BEARINGS SUPPLIED AT ALL THE LOCATIONS GIVEN.

checked 2019-08-16

Roaring Brook Consultants, Inc. Engineering & Better Future 15 Sewall Road, South Berwick, Maine 03908 Phone: (877) 722-2643 FAX: (207) 384-5383



uninumum of the

E AE, Group, Inc	RELEASED FOR
C'D: 8/19/2019 BUILDABLE UNIT NO.: 7	FABRICATION
conforms that the shop drawings meet the intent of the .	
DNFORMS AS-IS CONFORMS AS NOTED	MAALSH
1908S - DISC BEARINGS	
nrad Gagnon	Ву:
19/2019	Date:

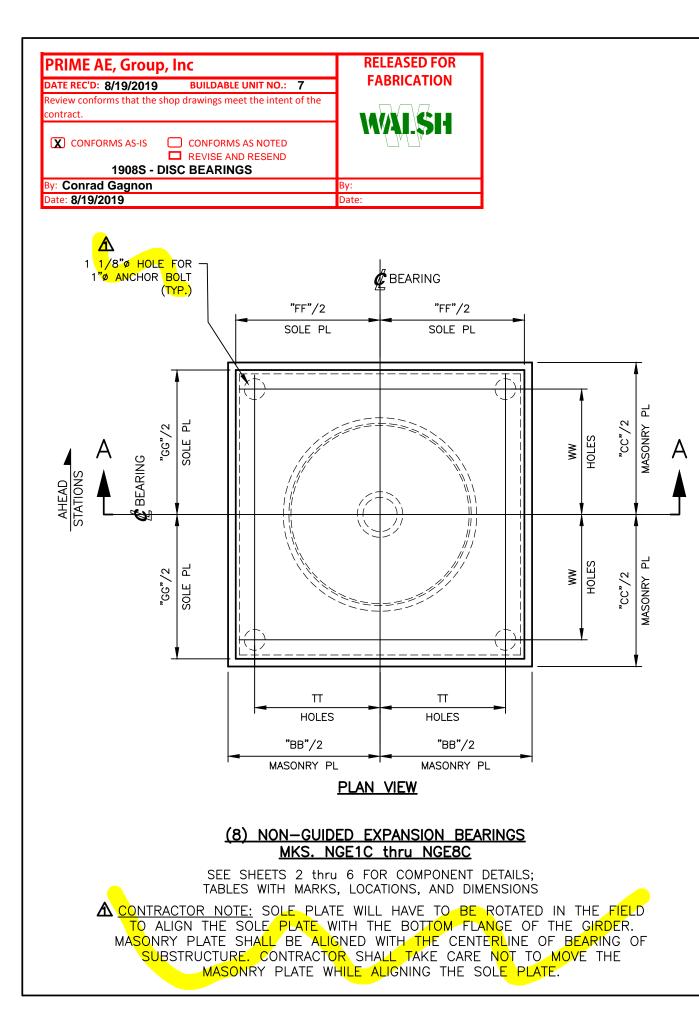


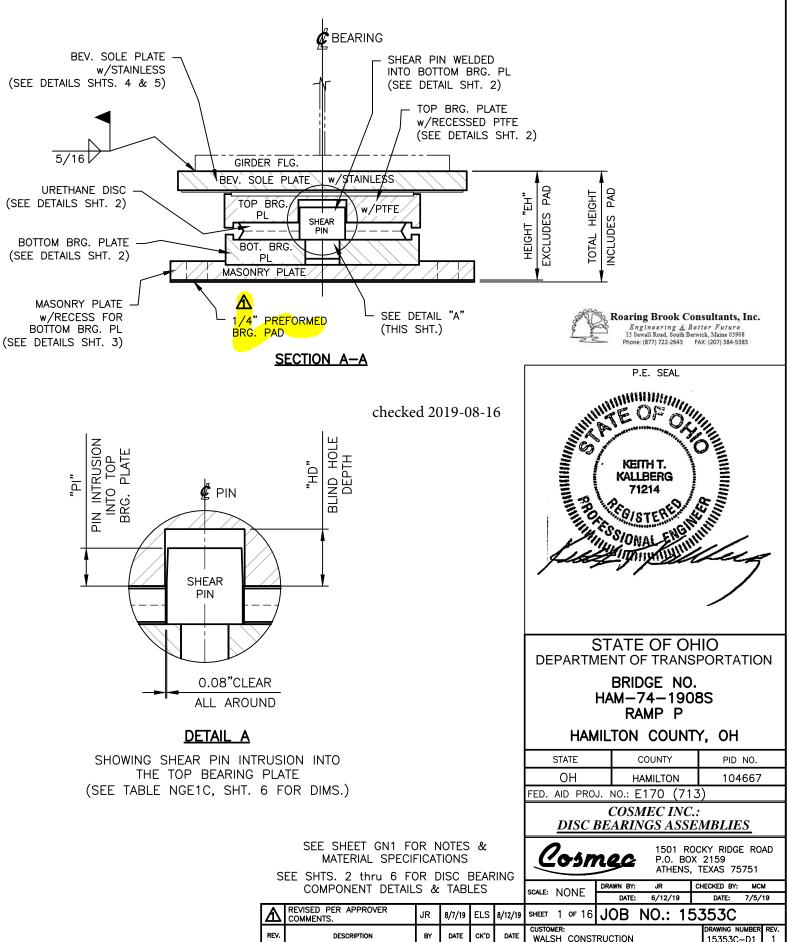
BEARING	MARKS.	LOC	CATIONS	<u>&amp;</u>
ELEVATIO	N CHAN	GES	REQUIR	ED

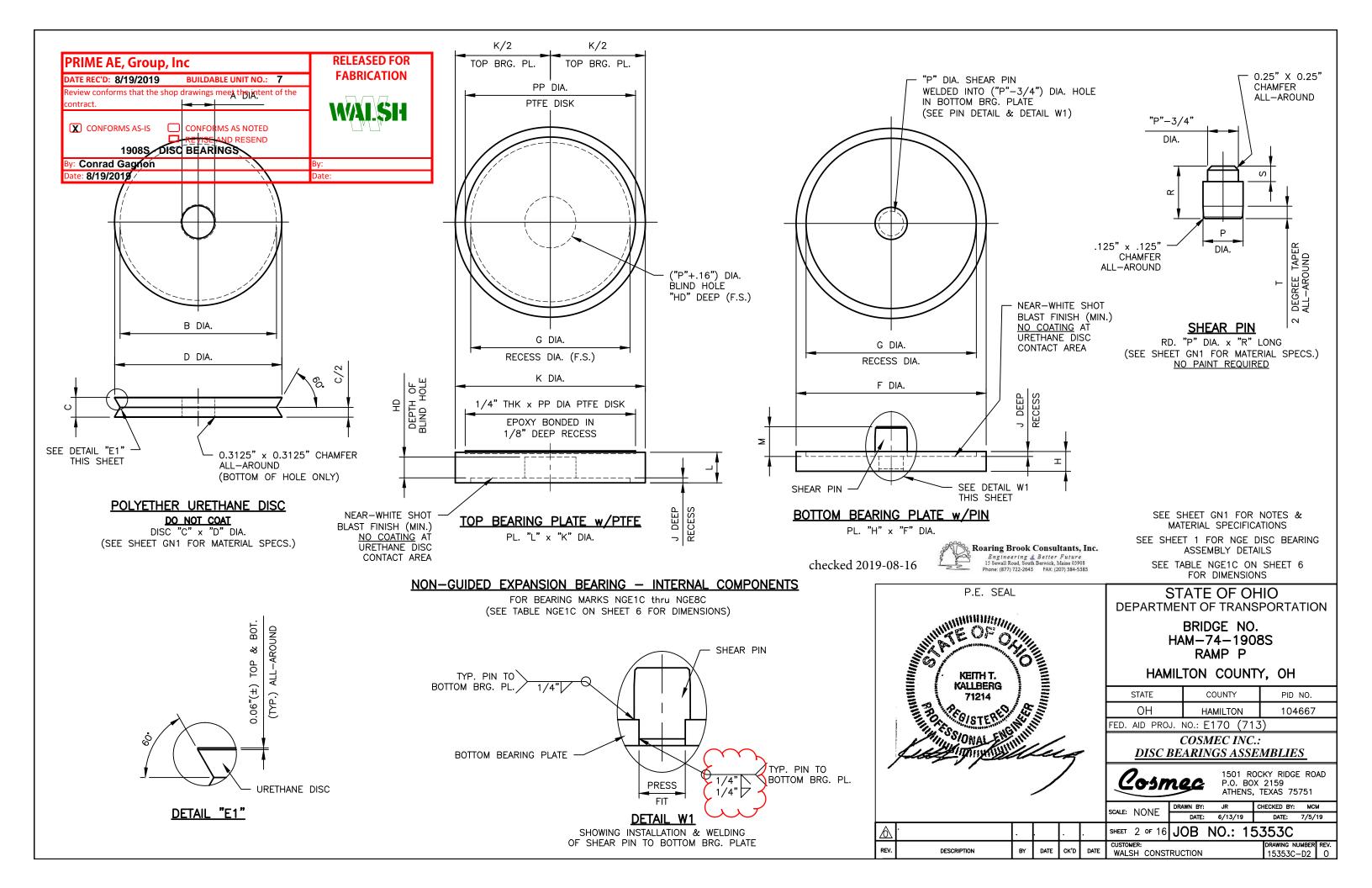
SEE SHEET GN1 FOR NOTES & MATERIAL SPECIFICATIONS

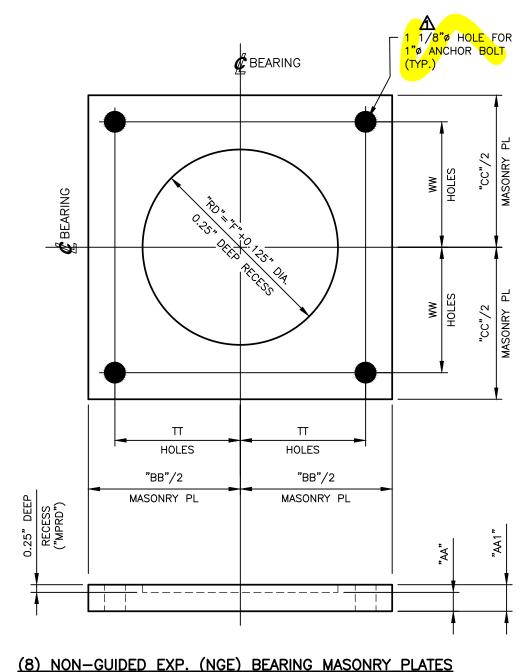
SEE SHEET 15 FOR ANCHOR A BOLT MARKS & LOCATIONS

P.E. SEAL											
					STATE OF OHIO DEPARTMENT OF TRANSPORTATION						
ATEOF						HAM-7 RA	)GE NO 74-190 MP P	85			
KALLBERG	1	E			HAN	ILTON	COUNT	Y, OH			
71214		~ <u>Ē</u>			STATE	STATE COUNTY			PID NO.		
COLSTERE	1	U.S.			ОН	н	AMILTON	10466	57		
	GIR	NIT.	FED. AID PROJ. NO.: E170 (713)								
71214 A CO/STERIE SO/ONAL EN				5	COSMEC INC.: DISC BEARINGS ASSEMBLIES						
- /					Cosn	nec	P.O. BO	DCKY RIDGE X 2159 TEXAS 7575			
					scale: NONE	DRAWN BY:	JR		мсм		
RG. SEAT ELEV. DUE						DATE:	6/27/19	-	/5/19		
N CHANGES & IN BRG. PAD THK	JR	8/8/19	ELS	8/12/19	SHEET E1 OF 1	JOB	NO.: 15	5353C			
DESCRIPTION	BY	DATE	CK'D	DATE	CUSTOMER: WALSH CONST	RUCTION		DRAWING NUME 15353C-E			









PL "AA1" x "BB" x "CC" SEE TABLE MP1 ON THIS SHEET FOR MARKS, LOCATIONS, AND DIMENSIONS

				Bearing	g Descriptio	on							Masonr	y Plate			
								TOTAL	TOTAL	Dim. "AA"	Dim. "AA1"	Dim. "BB"	Dim. "CC"	Dim. "TT"	Dim. "WW"	Dim. "MPRD"	Dim. "RD"
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.	Design Vertical Load (kips)	Design Horizontal Load (kips)	Max. Design Rotation (rads)	Design Longit. M∨mnt. (in.)	Design Transv. Mvmnt. (in.)	Mas. PL Thk. (in.)	Total Mas. PL Thk. (Incl. Recess) (in.)	Mas. PL Width (in.)	Mas. PL Length (in.)	Mas. PL Anchor Bolt Hole Location (in.)	Mas. PL Anchor Bolt Hole Location (in.)	Mas. PL Recess Depth (in.)	Mas. PL Recess Dia. (in.)
NGE1C	Exist. Pier 7	Unit 1	G1	1	150	15	0.030	1.500	1.500	1.000	1.250	18.000	18.000	7.250	7.250	0.250	8.855
NGE2C	Exist. Pier 7	Unit 1	G4	1	150	15	0.030	1.500	1.500	1.000	1.250	18.000	18.000	7.250	7.250	0.250	8.855
NGE3C	Pier 2	Unit 1	G1	1	150	15	0.030	1.500	1.500	1.000	1.250	18.000	18.000	7.250	7.250	0.250	8.855
NGE4C	Pier 2	Unit 1	G4	1	150	15	0.030	1.500	1.500	1.000	1.250	18.000	18.000	7.250	7.250	0.250	8.855
NGE5C	Pier 2	Unit 2	G1	1	390	40	0.030	3.750	1.500	1.000	1.250	20.000	20.000	8.250	8.250	0.250	12.855
NGE6C	Pier 2	Unit 2	G4	1	390	40	0.030	3.750	1.500	1.000	1.250	20.000	20.000	8.250	8.250	0.250	12.855
NGE7C	Fwd. Abut.	Unit 2	G1	1	250	25	0.030	3.250	1.500	1.000	1.250	19.000	19.000	7.750	7.750	0.250	10.755
NGE8C	Fwd. Abut.	Unit 2	G4	1	250	25	0.030	3.250	1.500	1.000	1.250	19.000	19.000	7.750	7.750	0.250	10.755



Tak

DATE REC'D: 8/19/201
Review conforms that th
contract.

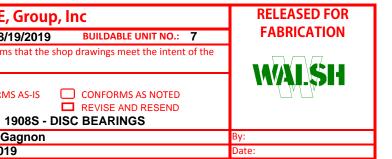
Date: 8/19/2019

By: Conrad Gagnon

RETTY KALLF RALLF KALLF 7' checked 2019-08-16 Roaring Brook Consultants, Inc. Engineering & Better Future 15 Sewall Road, South Berwick, Maine 03908 Phone: (877) 722-2643 FAX: (207) 384-5383 HIP SSIONAL

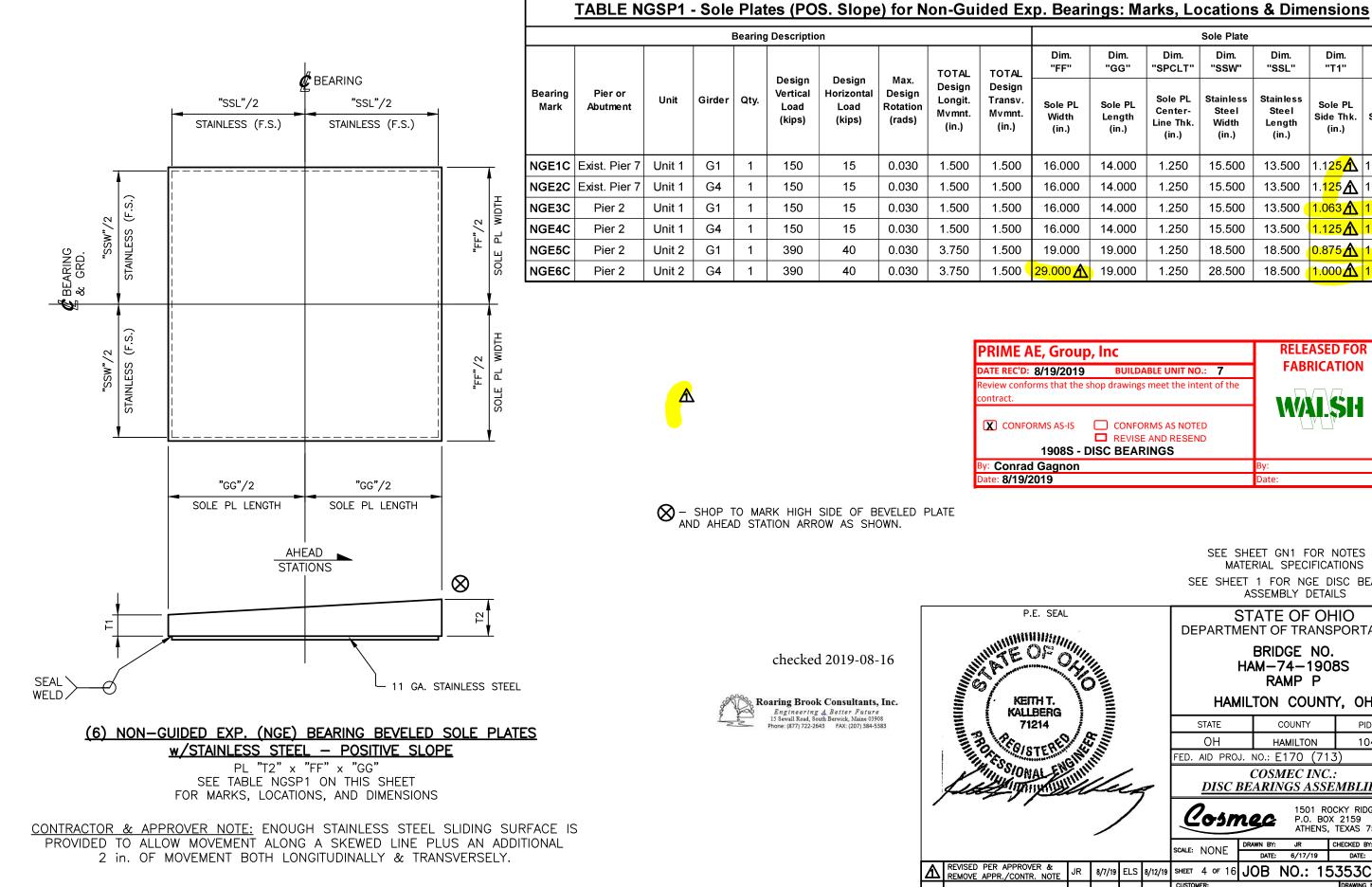
REV.

REVISED PER APPROVER COMMENTS & REMOVE NOTES. DESCRIPTION



# SEE SHEET GN1 FOR NOTES & MATERIAL SPECIFICATIONS SEE SHEET 1 FOR NGE DISC BEARING ASSEMBLY DETAILS

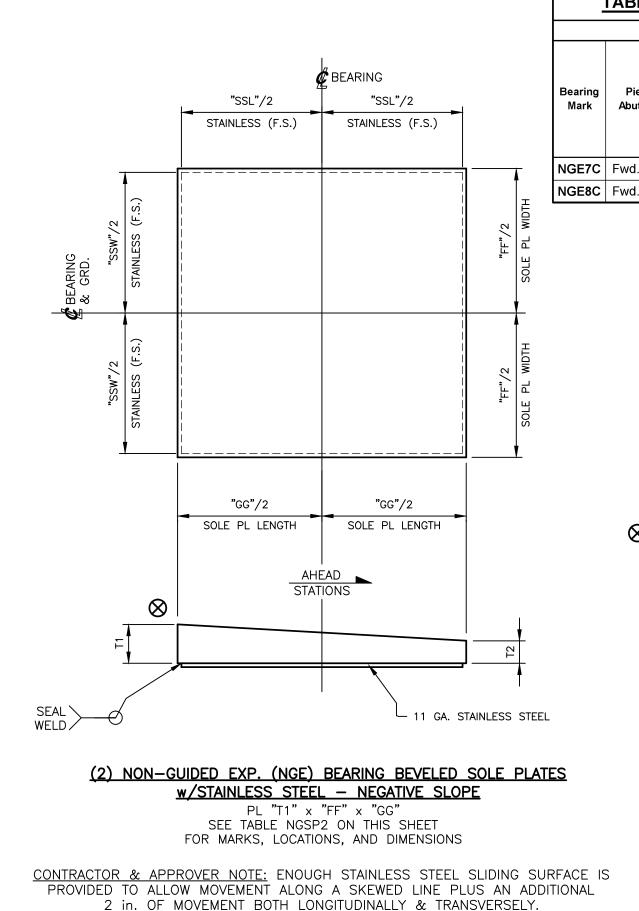
P.E. SEAL	1.				DE		IENT C	E OF O	SPORTA	TION
							HAM-	DGE NO 74-190 AMP P		
Kenth T. Allberg		MIII				HAN	AILTON		ry, oh	
71214	1					STATE		COUNTY	PID	NO.
RIDTERE		F.E				ОН	H	AMILTON	104	667
2/81 E	NI,	11 B			FED.	AID PRO	J. NO.:	E170 (71	3)	
71214 Ø/STERE ONAL EN				5		DISC .		MEC INC NGS ASS		<u>'S</u>
					<u>(</u>	?osn	nec	P.O. BO	OCKY RIDGE X 2159 , TEXAS 75	
					SCALE:	NONE	DRAWN BY:		CHECKED BY:	мсм
PROVER							DATE:		DATE:	7/5/19
MOVE NOTES.	JR	8/7/19	ELS	8/12/19		3 oF 16	10B	<u>NO.: 15</u>		
TION	BY	DATE	CK'D	DATE	CUSTO WAL	mer: SH CONST	RUCTION		DRAWING NU 15353C-	JMBER REV. -D3 1



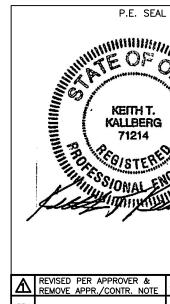
					Sole F	Plate						
n. 	Dim "GG			im. CLT''	Din "SSI		Dir "SS			im. F1''	Dii "T	
PL th .)	Sole Leng (in.)	th	Cer Line	ePL nter- Thk. n.)	Stainl Ste Wid (in	el th	Stain Ste Leng (in	el gth	Side	e PL e Thk. n.)	Sole Side (in	Thk.
00	14.0	00	1.2	250	15.5	500	13.5	500	1.12	2 <mark>5</mark> ▲	1.37 <mark>5</mark>	Â
00	14.00	00	1.2	250	15.5	500	13.5	500	1. <mark>12</mark>	2 <sup>5</sup> \Lambda	1. <mark>375</mark>	Å
00	14.00	00	1.2	250	15.5	500	13.5	500 🤇	1.06	<sup>3</sup> ∕∆	1.438	
00	14.00	00	1.2	250	15.5	500	13.5	500	1.12	25 <u>A</u>	1.375	Δ
00	19.00	00	1.2	250	18.5	500	18.5	500	<mark>0.87</mark>	′5 <u>∕∕</u>	1.625	A
<mark>٥ الم</mark> ٥	19.00	00	1.2	250	28.5	500	18.5	500 (	1.00	00 <b>A</b>	1.500	
<mark>oup</mark> 019	, <b>Inc</b> вс	JILDA	BLE U	NIT NC	).: 7					D FO		
t the s	hop drav	vings	meet	the int	ent of t	he	_			7		
-IS IS - F		VISE					<b>\</b>			<b>5</b> H		
on							By:					
				SE		IATEI EET	EET GI RIAL S 1 FOI SSEMB	SPECI R NG	FICA	TIONS	6	IG
				DE	PART	IAM AH	BRID M—7 RA	F TR/ GE 4-1 MP	ANS NO. 190 P	POR 8S		DN
Personal V	MH					MIL	TON			· •		
					STATE OH						PID NO.	7
CIN	IIII			FED.	AID PR	OJ. I		<u>мігто</u> 170	,	·	04667	
	Ĺ	-	-		DISC		COSM ARIN	-			JES_	
		/			205	$\sim$	CC	P.0	. BOX ENS,	2159	75751	DAD
1					NONE		DATE:	6/17/	19	DAT	E: 7/5	
JR		-	8/12/19	SHEET	4 OF 1	6 <b> </b> J(	DB N	<u>،0،</u>	15		C IG NUMBER	REV.
BY	DATE	ск'р	DATE		H CON	STRUC	CTION			1535	53C-D4	1

REV

DESCRIPTION

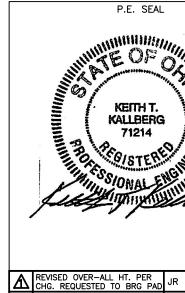


			I	Bearing	g Descriptio	n							Sole Plate			
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.	Design Vertical Load (kips)	Design Horizontal Load (kips)	Max. Design Rotation (rads)	TOTAL Design Longit. M∨mnt. (in.)	TOTAL Design Transv. Mvmnt. (in.)	Dim. "FF" Sole PL Width (in.)	Dim. "GG" Sole PL Length (in.)	Dim. "SPCLT" Sole PL Center- Line Thk. (in.)	Dim. "SSW" Stainless Steel Width (in.)	Dim. "SSL" Stainless Steel Length (in.)	Dim. "T1" Sole PL Side Thk. (in.)	Dim. "T2" Sole PL Side Thk (in.)
NGE7C	Fwd. Abut.	Unit 2	G1	1	250	25	0.030	3.250	1.500	19.000	17.000	1.250	18.500	16.500	1.500 🖍	1.000 🥂
NGE8C	Fwd. Abut.	Unit 2	G4	1	250	25	0.030	3.250	1.500	19.000	17.000	1.250	18.500	16.500	1.500 🖍	1.000 🥂
		Â	4						PRIME	AE, Grou	ıp, İnc				LEASED F	
										D: 8/19/201		LDABLE UNIT			ABRICATIO	ON
									Review con contract.	forms that th	ie shop drawi	ngs meet the	intent of the			
										FORMS AS-IS	🗖 REV	FORMS AS NO				
	<b>⊗</b> - si	HOP TO I	MARK H	IGH SI	DE OF BE	EVELED PLA	ντε			1908S ad Gagnor		ISE AND RES		By: Date:	. To To	
	⊗ – si <sub>AND</sub>	HOP TO I AHEAD S	MARK H TATION	IGH SI ARROV	DE OF BE V AS SHC	EVELED PLA WN.	ΤE		<sup>By:</sup> Conra	1908S ad Gagnor		ISE AND RES ARINGS	SEE SHE MATE EE SHEET	Date: EET GN1 F RIAL SPEC	FOR NOTES DIFICATIONS GE DISC E DETAILS	5
	⊗ – si AND	HOP TO I AHEAD S	MARK H TATION	IGH SI ARROV			F		By: Conra Date: 8/19	1908S ad Gagnor /2019		ISE AND RES ARINGS	SEE SHE MATE EE SHEET A ST PARTME	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF	CIFICATIONS GE DISC E DETAILS FOHIO CANSPOR	S BEARING
	⊗ – si and	HOP TO I AHEAD S	MARK H TATION	IGH SI ARROV		EVELED PLA WN. d 2019-08-	F		By: Conra Date: 8/19	1908S ad Gagnor /2019 E. SEAL		ISE AND RES ARINGS	SEE SHE MATE EE SHEET A ST PARTME	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR	CIFICATIONS GE DISC E DETAILS FOHIO CANSPOR NO. 1908S	S BEARING
	⊗ – si and	HOP TO I AHEAD S	MARK H TATION		checked	d 2019-08- k Consultants	F		By: Conra Date: 8/19	1908S ad Gagnor /2019 E. SEAL		ISE AND RES ARINGS	SEE SHE MATE EE SHEET A PARTME HA	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR BRIDGE M-74- RAMP	CIFICATIONS GE DISC E DETAILS FOHIO CANSPOR NO. 1908S	S BEARING TATION
<u>S</u>	⊗ – si and	HOP TO I AHEAD S	MARK H TATION		checked	d 2019-08-	F		By: Conra Date: 8/19	1908S ad Gagnor /2019 E. SEAL		ISE AND RES ARINGS SE DE	SEE SHE MATE EE SHEET A PARTME HAMIL STATE OH	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR BRIDGE M—74— RAMP TON CO COUNT HAMILTO	CIFICATIONS GE DISC E DETAILS FOHIO ANSPOR NO. 1908S P UNTY, C	S BEARING TATION
<u>S</u>	⊗ – si and	HOP TO I AHEAD S			checked	d 2019-08- k Consultants	F		P.I	1908S ad Gagnor /2019 E. SEAL		ISE AND RES ARINGS SE DE	SEE SHI MATE EE SHEET A PARTME HAMIL STATE OH AID PROJ.	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR BRIDGE M—74— RAMP TON CO COUNT HAMILTO NO.: E170 COSMEC	CIFICATIONS GE DISC E DETAILS FOHIO ANSPOR NO. 1908S P UNTY, C Y F ON 1 (713)	S BEARING TATION DH DID NO. 104667
<b>S</b> FACE IS		HOP TO I AHEAD S	MARK H STATION		checked	d 2019-08- k Consultants	F		By: Conra Date: 8/19	1908S ad Gagnor /2019 E. SEAL		ISE AND RES	SEE SHE MATE EE SHEET A PARTME HAMIL STATE OH AID PROJ. DISC BE	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR BRIDGE M-74- RAMP TON CO COUNT HAMILTO NO.: E170 COSMEC ARINGS	CIFICATIONS GE DISC E DETAILS FOHIO ANSPOR NO. 1908S P UNTY, C Y F ON 1 (713) INC.: ASSEMBI 01 ROCKY R D. BOX 2159 HENS, TEXAS	S BEARING TATION DH DID NO. 104667 C <u>HES</u> IDGE ROAD 75751
		HOP TO I AHEAD S	MARK H TATION		checked	d 2019-08- k Consultants	F	Lis	By: Conra Date: 8/19	1908S ad Gagnor /2019 E. SEAL TH T. BERG 214 TERE 214		SE AND RES	SEE SHE MATE EE SHEET A PARTME HA HAMIL STATE OH AID PROJ. DISC BE	Date: EET GN1 F RIAL SPEC 1 FOR N SSEMBLY ATE OF NT OF TR BRIDGE M—74— RAMP TON CO COUNT HAMILTO NO.: E170 COSMEC ARINGS 2 COSMEC ATI COSMEC ATI COSMEC ATI COSMEC ATI ATI COSMEC ATI COSMEC ATI COSMEC CON COSMEC CON COSMEC COS COS COS COS COS COS COS COS COS CO	CIFICATIONS GE DISC E DETAILS FOHIO ANSPOR NO. 1908S P UNTY, C Y F ON 1 (713) INC.: ASSEMBI 01 ROCKY R D. BOX 2159 HENS, TEXAS	S BEARING TATION DH DID NO. 104667 LIES IDGE ROAI 75751 BY: MCM E: 7/5/19



				Bearing	g Descriptio	n					Uretha	ne Disc				Тор	& Bottom I	Bearing Plat	tes					She	ear Pin			Heig	gh <mark>t</mark>
					Desian	Design	Max.	TOTAL	TOTAL	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "F"	Dim. "G"	Dim. "H"	Dim. "J"	Dim. "K"	Dim. "L"	Dim. "HD"	Dim. "PP"	Dim. "M"	Dim. "P"	Dim. "R"	Dim. "S"	Dim. "T"	Dim. "PI"	Dim. "EH"	Dim. "TH"
Bearing Mark	Pieror Abutment	Unit	Girder	Qty.	Vertical Load (kips)	Horizontal Load (kips)	Design Rotation (rads)	Design Longit. M∨mnt. (in.)	Design Transv. M∨mnt. (in.)	Disc Hole Dia. (in.)	Eff. Disc Dia. (in.)	Disc Thk. (in.)	Disc O.D. (in.)	Bot. Brg. PL O.D. (in.)	Top & Bot. Brg. PL Recess Dia. (in.) (+/- 0.125")	Total Bot. Brg. PL Thk. (in.)	Top & Bot. Brg. PL Recess Depth (in.)	Top Brg. PL Dia. (in.)		Top Brg. PL Depth of Hole (in.)	Top Brg. PL PTFE Dia. (in.)	Proj. of Pin (in.)	Shear Pin Dia. (in.)	Shear Pin Length (in.)	Pin Intrusion Into Bottom Brg. PL. (in.)	Pin Taper Length (in.)	Pin Intrusion Into Top PL. (in.)	Total Brg. Height (excl. Brg. Pad) (in.)	Total Brg Height w/Brg. Pad (in.)
NGE1C	Exist. Pier 7	Unit 1	G1	1	150	15	0.030	1.500	1.500	2.063	6.523	1.000	7.030	8.730	7.730	1.970	0.220	9.000	2.095	1.500	7.500	2.000	2.000	3.250	1.250	0.875	1.000	7.125	<mark>7.3</mark> 75
NGE2C	Exist. Pier 7	Unit 1	G4	1	150	15	0.030	1.500	1.500	2.063	6.523	1.000	7.030	8.730	7.730	1.970	0.220	9.000	2.095	1.500	7.500	2.000	2.000	3.250	1.250	0.875	1.000	7.125	<mark>7.</mark> 375
NGE3C	Pier 2	Unit 1	G1	1	150	15	0.030	1.500	1.500	2.063	6.523	1.000	7.030	8.730	7.730	1.970	0.220	9.000	2.095	1.500	7.500	2.000	2.000	3.250	1.250	0.875	1.000	7.125	<mark>7.</mark> 375
NGE4C	Pier 2	Unit 1	G4	1	150	15	0.030	1.500	1.500	2.063	6.523	1.000	7.030	8.730	7.730	1.970	0.220	9.000	2.095	1.500	7.500	2.000	2.000	3.250	1.250	0.875	1.000	7.125	<mark>7,</mark> 375
NGE5C	Pier 2	Unit 2	G1	1	390	40	0.030	3.750	1.500	3.063	10.450	1.125	11.030	12.730	11.730	2.000	0.340	12.875	2.215	1.500	12.000	2.125	3.000	3.375	1.250	0.875	1.000	7.160	<mark>7</mark> .410
NGE6C	Pier 2	Unit 2	G4	1	390	40	0.030	3.750	1.500	3.063	10.450	1.125	11.030	12.730	11.730	2.000	0.340	12.875	2.215	1.500	12.000	2.125	3.000	3.375	1.250	0.875	1.000	7.160	<mark>7</mark> .410
NGE7C	Fwd. Abut.	Unit 2	G1	1	250	25	0.030	3.250	1.500	2.563	8.423	1.000	8.930	10.630	9.630	2.000	0.270	11.000	2.145	1.500	9.750	2.000	2.500	3.250	1.250	0.875	1.000	7.105	<mark>7</mark> .355
NGE8C	Fwd. Abut.	Unit 2	G4	1	250	25	0.030	3.250	1.500	2.563	8.423	1.000	8.930	10.630	9.630	2.000	0.270	11.000	2.145	1.500	9.750	2.000	2.500	3.250	1.250	0.875	1.000	7.105	7.355





DESCRIPTION

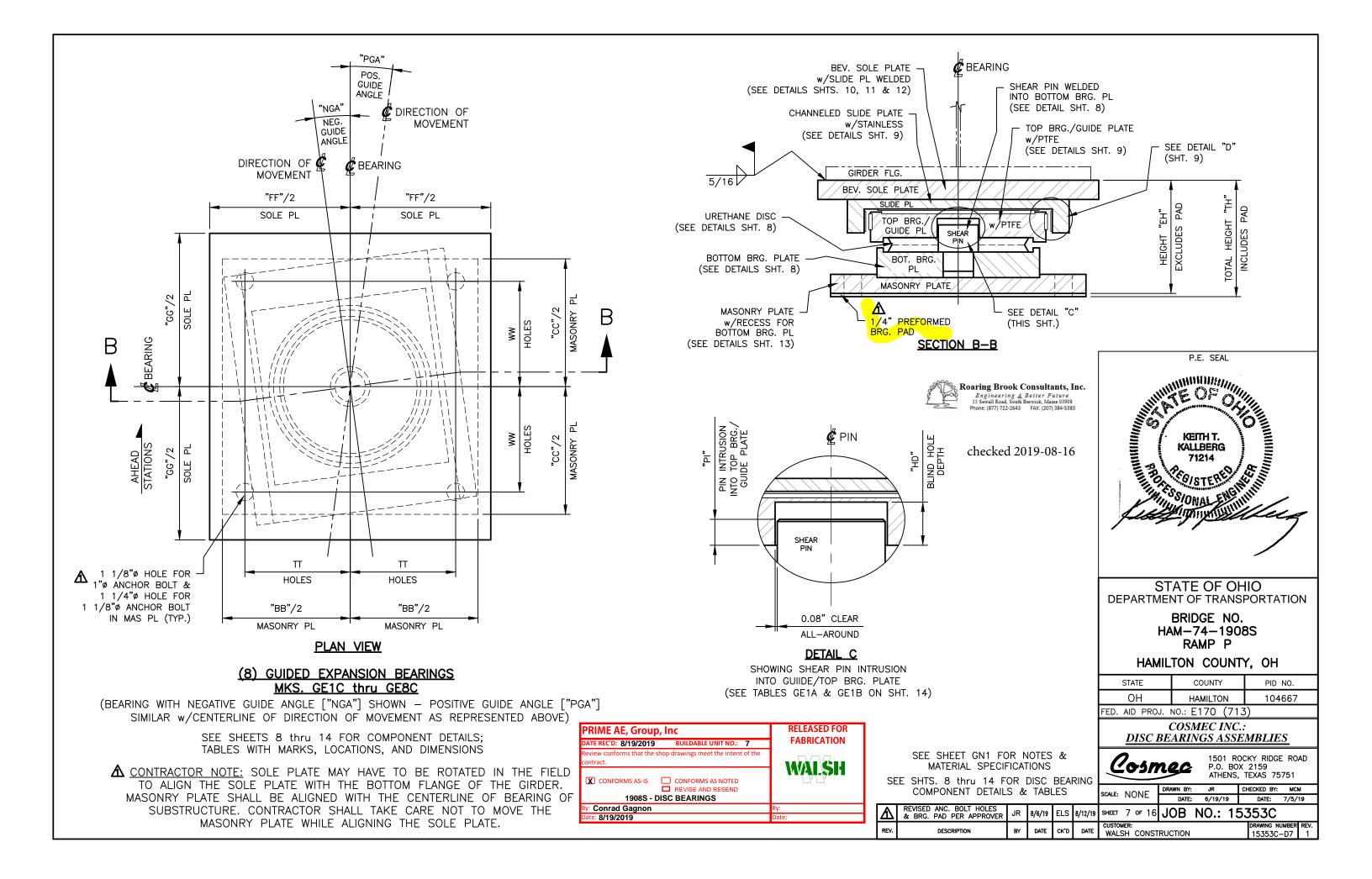
REV.

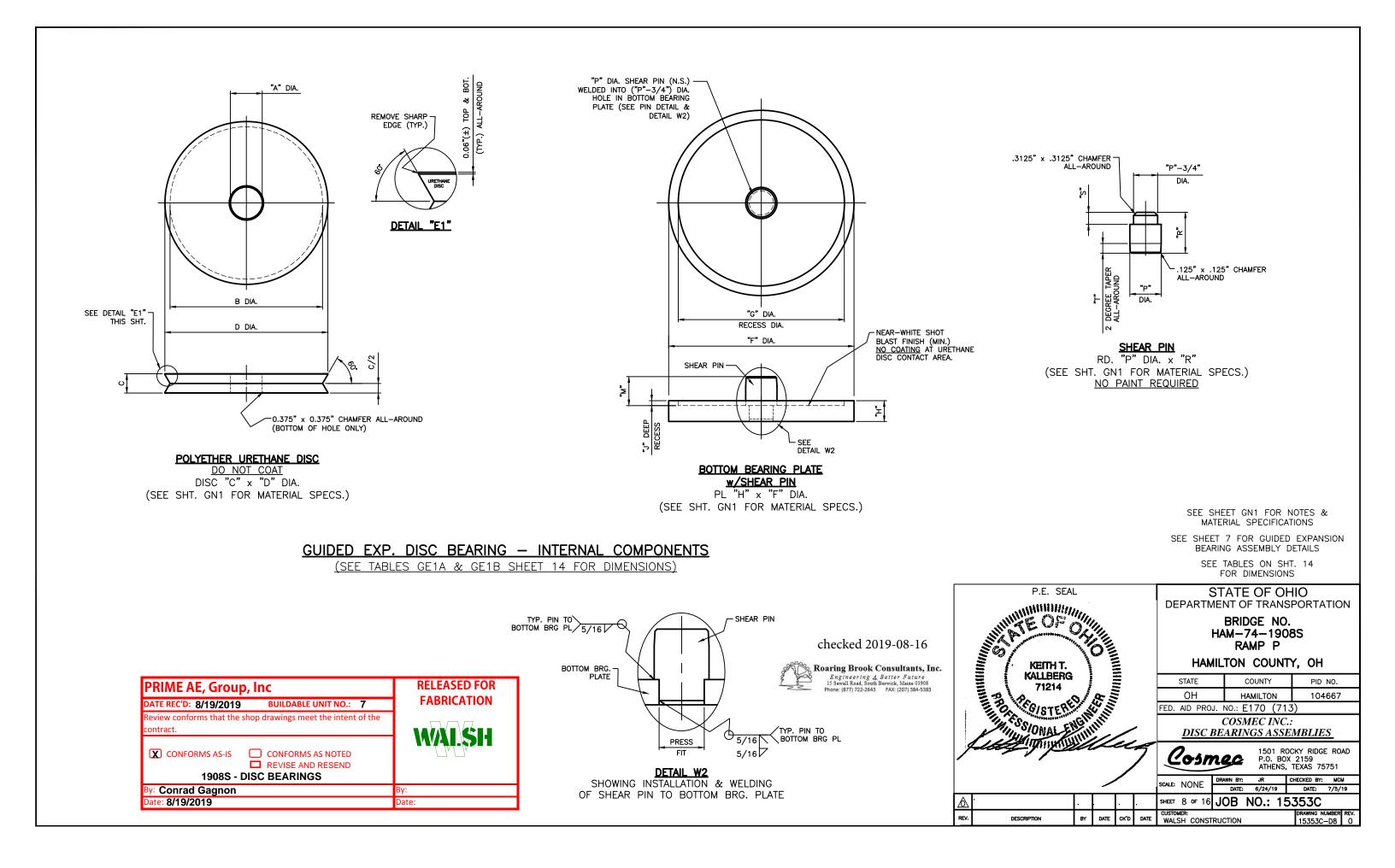
checked 2019-08-16

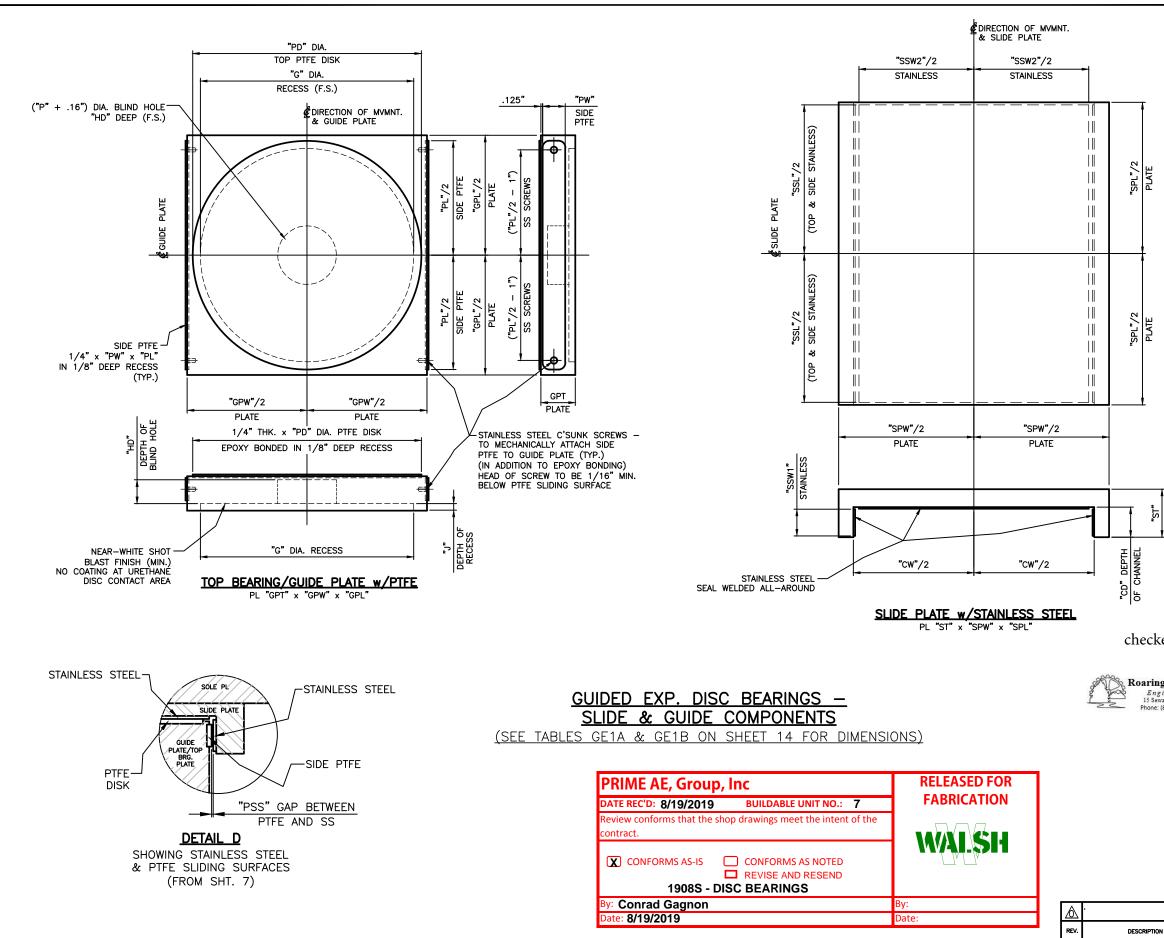


<u>A</u>

							SN1 FOR SPECIFIC	NOTES & ATIONS
					SEE SHE		OR NGE [ BLY DETA	DISC BEARING
								DISC BEARING T DETAILS
-							E OF OI F TRANS	HIO SPORTATION
		O INTERNET				HAM-7	OGE NO 74-190 MP P	
	******				HAN	<b>IILTON</b>	COUNT	TY, OH
ì					STATE		COUNTY	PID NO.
	0.	ΒĒ			ОН	Н	AMILTON	104667
1	and the				FED. AID PRO	J. NO.: E	.170 (71	3)
		HI CEA			DISC I		AEC INC NGS ASSI	".: EMBLIES
6			/	7	Cosn	nec	P.O. BO	OCKY RIDGE ROAD X 2159 , TEXAS 75751
		-			scale: NONE	DRAWN BY: DATE:	JR 6/18/19	CHECKED BY: MCM DATE: 7/5/19
Ţ	JR	8/7/19	ELS	8/12/19	SHEET 6 OF 16		NO.: 15	
I	•••			-,,	CUSTOMER:		101	DRAWING NUMBER REV.
I	BY	DATE	CK'D	DATE	WALSH CONST	RUCTION		15353C-D6 1







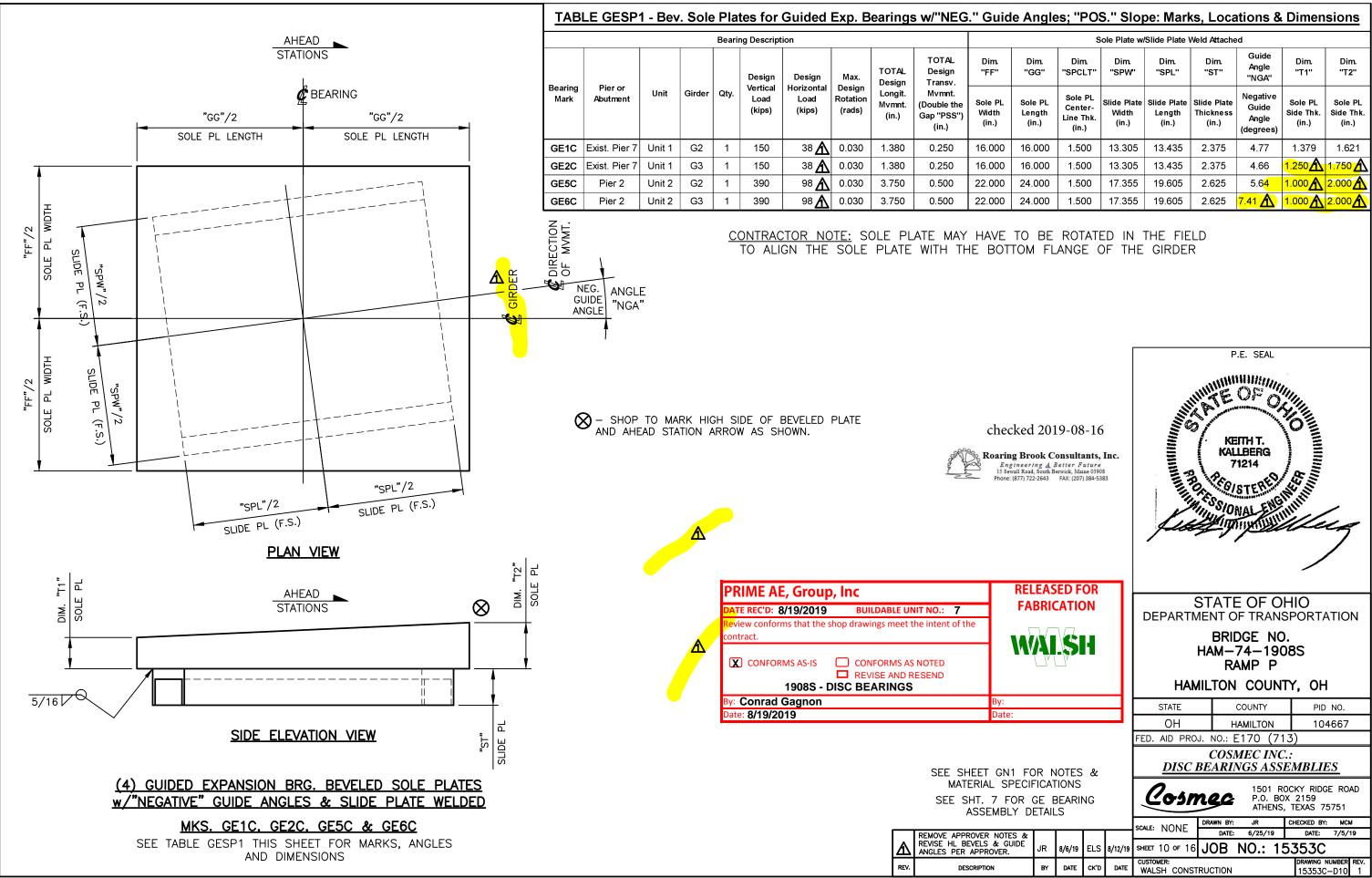
S

checked 2019-08-16

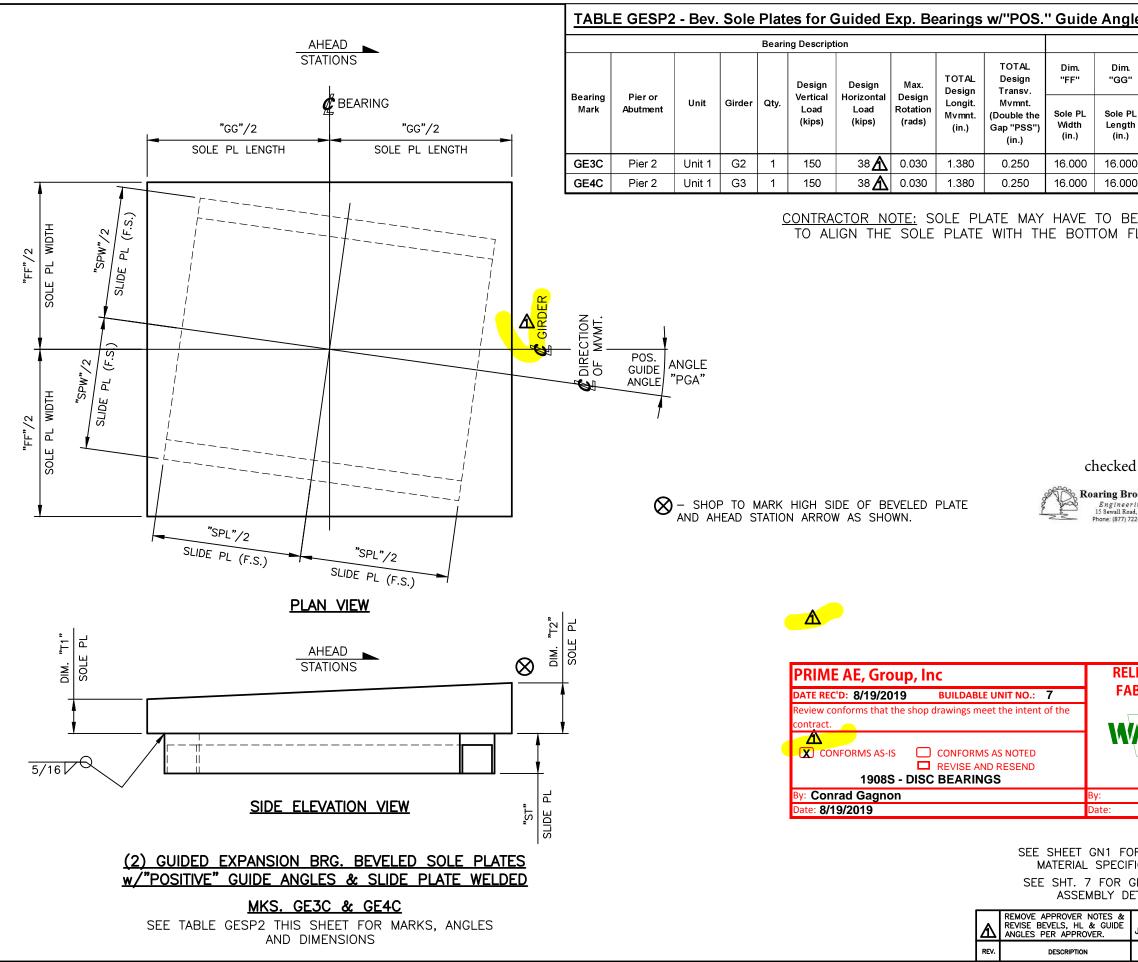
**Roaring Brook Consultants, In** Engineering & Better Future 15 Sewall Road, South Berwick, Maine 03908 Phone: (877) 722-2643 FAX: (207) 384-538

> BY DATE CK'D

		ET GN1 FOR N IAL SPECIFICATI	
		FOR GUIDED E	
		P.E. SEAL	
	A MINIMUM MINIMUM MINIMUM MINIMUM AND A br>A MINIMUM AND A D A MINIMUM AND AND A MINIMUM	KEITH T. KALLBERG 71214	
	ST		
Inc.		ATE OF OF	
	DEPARTMEI		PORTATION
	DEPARTMEI <b>HA</b>	NT OF TRANS BRIDGE NO. M-74-190	PORTATION BS
	DEPARTMEI HA HAMIL STATE	NT OF TRANS BRIDGE NO. M-74-190 RAMP P	PORTATION BS Y, OH
	DEPARTMEI HA HAMIL STATE OH	NT OF TRANS BRIDGE NO. M-74-190 RAMP P TON COUNT COUNTY HAMILTON	PORTATION <b>BS</b> <b>Y, OH</b> PID NO. 104667
	DEPARTMEI HA HAMIL STATE OH FED. AID PROJ. 1	NT OF TRANS BRIDGE NO. M-74-1900 RAMP P TON COUNT COUNTY HAMILTON NO.: E170 (71)	PORTATION BS Y, OH PID NO. 104667 3)
	DEPARTMEI HA HAMIL STATE OH FED. AID PROJ. 1	NT OF TRANS BRIDGE NO. M-74-190 RAMP P TON COUNT COUNTY HAMILTON	PORTATION BS Y, OH PID NO. 104667 3)
Inc.	DEPARTMEN HA HAMIL STATE OH FED. AID PROJ. N DISC BE	NT OF TRANS BRIDGE NO. M-74-1900 RAMP P TON COUNTY HAMILTON NO.: E170 (71) COSMEC INC. ARINGS ASSE	PORTATION BS Y, OH PID NO. 104667 3) : : : : : : : : : : : : :
	DEPARTMEN HA HAMIL STATE OH FED. AID PROJ. N DISC BE	NT OF TRANS BRIDGE NO. M-74-1900 RAMP P TON COUNT COUNTY HAMILTON NO.: E170 (71: COSMEC INC ARINGS ASSE	PORTATION BS Y, OH PID NO. 104667 3) : : : : : : : : : : : : :
	DEPARTMEI HA HAMIL STATE OH FED. AID PROJ. I DISC BE.	NT OF TRANS BRIDGE NO. M-74-1900 RAMP P TON COUNT COUNTY HAMILTON NO.: E170 (71: COSMEC INC ARINGS ASSE COSMEC INC ARINGS ASSE 1501 RO P.O. BOX ATHENS, WIN BY: JR 1 DATE: 6/24/19	PORTATION BS Y, OH PID NO. 104667 3) : : : : : : : : : : : : :

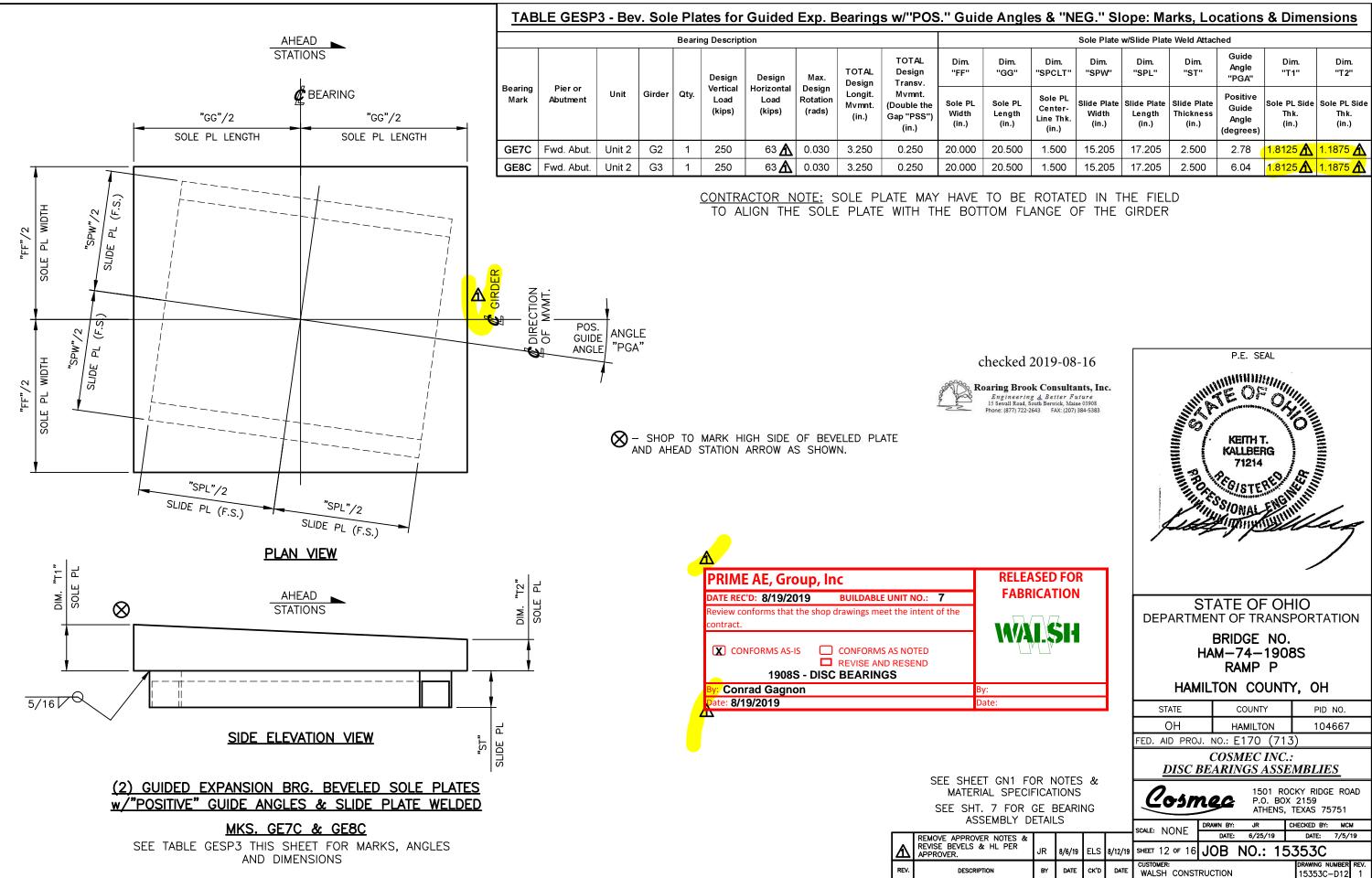


ngle	s; "PO	S." Slop	be: Marl	ks, Loca	ations &	Dimen	sions
	s	ole Plate w/	Slide Plate \	Weld Attache	ed		
im. 3G''	Dim. "SPCLT"	Dim. ''SPW''	Dim. "SPL"	Dim. "ST"	Guide Angle ''NGA''	Dim. "T1"	Dim. ''T2''
ePL ngth n.)	Sole PL Center- Line Thk. (in.)	Slide Plate Width (in.)	Slide Plate Length (in.)	Slide Plate Thickness (in.)	Negative Guide Angle (degrees)	Sole PL Side Thk. (in.)	Sole PL Side Thk. (in.)
.000	1.500	13.305	13.435	2.375	4.77	1.379	1.621
000	1.500	13.305	13.435	2.375	4.66	<mark>1.250 \Lambda</mark>	1.750 🖍
.000	1.500	17.355	19.605	2.625	5.6 <mark>4</mark>	1.000	2.000
.000	1.500	17.355	19.605	2.625	7.41 🛕	1.000	2.000

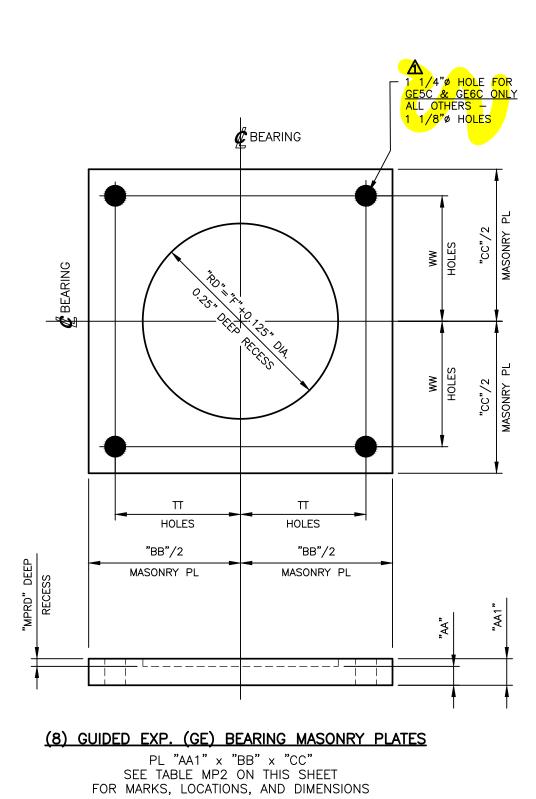


les			pe: Mar				& Dimei	nsions
	S	ole Plate w	/Slide Plate \	Neld Atta	ache	d		
L 	Dim. "SPCLT"	Dim. ''SPW''	Dim. "SPL"	Dim. "ST"		Guide Angle ''PGA''	Dim. "T1"	Dim. "T2"
PL th	Sole PL Center- Line Thk. (in.)	Slide Plate Width (in.)	Slide Plate Length (in.)	Slide Pl Thickne (in.)	ess	Positive Guide Angle (degrees)	Sole PL Side Thk. (in.)	Sole PL Side Thk. (in.)
00	1.500	13.305	13.435	2.37	5	1.76	1.3125	1.6875
00	1.500	13.305	13.435	2.37	5	1.71 🚹	1.3125	1.6875
rook	019-08- <b>Consultau</b> 4 Better Ful th Berwick, Maine 3 FAX: (207) 3	nts, Inc.		PROFESSION AND AND AND AND AND AND AND AND AND AN	KAT SI			í.
	ASED FO		DEPAR	TMEN E	⊤ C BRII M—	E OF C DF TRAN DGE NO 74–19 AMP P	ISPORT. <b>D.</b>	ATION
		•	H	AMILT			ITY, OH	4
			STATE			COUNTY	-	D NO.
			JIAIL			000111		

						ОН	H,	AMILTON	10466	7
					FED.	AID PRO	J. NO.: E	170 (71	3)	
,		IOTES	80			DISC I		AEC INC NGS ASS	'.: EMBLIES	
IF (	FICAT	IONS BEARII			Ľ	?osn	nec	P.O. BO	DCKY RIDGE F X 2159 TEXAS 7575	
,					SCALE.	NONE	DRAWN BY:	JR	CHECKED BY: N	ICM
					SUALL.	NONE	DATE:	6/25/19	DATE: 7/	5/19
	JR	8/6/19	ELS	8/12/19	SHEET	11 of 16	JOB	NO.: 15	5353C	
	BY	DATE	CK'D	DATE	CUSTO WALS	MER: SH CONST	RUCTION		DRAWING NUMB 15353C-D1	



es & ''N	<u>EG.'' SI</u>	ope: Ma	arks, Lo	cations	& Dime	nsions
	Sole Plate	w/Slide Plate	e Weld Attac	hed		
Dim. "SPCLT"	Dim. ''SPW''	Dim. "SPL"	Dim. "ST"	Guide Angle ''PGA''	Dim. "T1"	Dim. ''T 2''
Sole PL Center- Line Thk. (in.)	Slide Plate Width (in.)	Slide Plate Length (in.)	Slide Plate Thickness (in.)	Positive Guide Angle (degrees)	Sole PL Side Thk. (in.)	Sole PL Side Thk. (in.)
1.500	15.205	17.205	2.500	2.78	1.8125 🔥	1.1875 🖍
1.500	15.205	17.205	2.500	6.04	<mark>1.8125 🛧</mark>	1.1875 🖍



				Bearin	g Descripti	on							Masonr	y Plate			
								TOTAL	TOTAL Design	Dim. "AA"	Dim. "AA1"	Dim. "BB"	Dim. "CC"	Dim. "TT"	Dim. "WV"	Dim. "MPRD"	Dim. "RD"
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.	Design Vertical Load (kips)	Design Horizontal Load (kips)	Max. Design Rotation (rads)	Design Longit. Mvmnt. (in.)	Transv. Mvmnt. (Double the Gap "PSS") (in.)	Mas. PL Thk. (in.)	Total Mas. PL Thk. (Incl. Recess) (in.)	Mas. PL Width (in.)	Mas. PL Length (in.)	Mas. PL Anchor Bolt Hole Location (in.)	Mas. PL Anchor Bolt Hole Location (in.)	Mas. PL Recess Depth (in.)	Mas. PL Recess Dia. (in.)
GE1C	Exist. Pier 7	Unit 1	G2	1	150	38	0.030	1.380	0.250	1.000	1.250	18.000	18.000	7.250	7.250	0.250	9.055
GE2C	Exist. Pier 7	Unit 1	G3	1	150	38	0.030	1.380	0.250	1.000	1.250	18.000	18.000	7.250	7.250	0.250	9.055
GE3C	Pier 2	Unit 1	G2	1	150	38	0.030	1.380	0.250	1.000	1.250	18.000	18.000	7.250	7.250	0.250	9.055
GE4C	Pier 2	Unit 1	G3	1	150	38	0.030	1.380	0.250	1.000	1.250	18.000	18.000	7.250	7.250	0.250	9.055
GE5C	Pier 2	Unit 2	G2	1	390	98	0.030	3.750	0.500	1.350	1.750	20.000	20.000	8.250	8.250	0.400	12.155
GE6C	Pier 2	Unit 2	G3	1	390	98	0.030	3.750	0.500	1.350	1.750	20.000	20.000	8.250	8.250	0.400	12.155
GE7C	Fwd. Abut.	Unit 2	G2	1	250	63	0.030	3.250	0.250	1.200	1.500	19.000	19.000	7.750	7.750	0.300	10.955
GE8C	Fwd. Abut.	Unit 2	G3	1	250	63	0.030	3.250	0.250	1.200	1.500	19.000	19.000	7.750	7.750	0.300	10.955



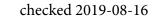
PRIME AE, Gro
DATE REC'D: 8/19/20
Review conforms that t

contract.

CONFORMS AS-IS

P.E. SEAL

By: Conrad Gagnon Date: 8/19/2019







ኄ	REVISE TABLE & ANC. BOLT HOLES; REMOVE APPR./CONTR. NOTE ALL PER APPROVER.
EV.	DESCRIPTION

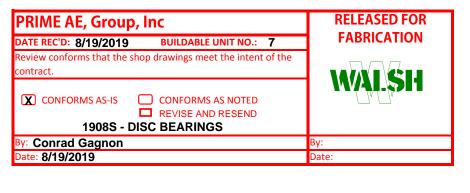


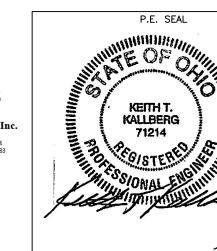
					TEI ET	RIAL S	N1 FOR SPECIFIC/ OR GE D BLY DETA	ATIONS ISC BEA	
				DEPARTN	1E1	NT OF <b>BRID</b>	GE NO	SPORT/	TION
						RA	'4-190 MP P		
A to be a local de la company	HIN			HAN	۱L	TON	COUN	ry, oh	
۰/ I	αĒ			STATE		C	OUNTY	PID	NO.
N. A.				ОН		HA	MILTON	10	4667
19.11	In.	/		FED. AID PRO	J. I	NO.: E	170 (71	3)	
			5	DISC I			IEC INC GS ASSI		<u>ES</u>
	/			Cosn	2	zc	P.O. BO	DCKY RIDG X 2159 TEXAS 7	
				scale: NONE	DRA	WN BY:	JR	CHECKED BY:	
JR	8/7/19	ELS	8/12/19		J		6/25/19 NO.: 15	DATE:	7/5/19
BY	DATE	ск'р	DATE	CUSTOMER: WALSH CONST					iumber rev. -D13 1

								A :	TABLE (	GE1A -	Intern	al Cor	npone	nts of	Guide	d Exp.	Beari	ngs: B	srg. Ma	arks, L	ocatio	ns & Di	mensi	ons								
			Be	earing	gDescript	tion					Uretha	ne Disc			Botto	m Bearing	j Plate				She	ar Pin						Top Slid	e Plate			
					Design	Design	Max.	TOTAL	TOTAL Design	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"	Dim. "G"	Dim. "H"	Dim. "J"	Dim. "M"	Dim. "P"	Dim. "R"	Dim. "S"	Dim. "T"	Dim. "PI"	Dim. "SPW"	Dim. "SPL"	Dim. "ST"	Dim. "CD"	Dim. "CW"	Dim. "SSL"	Dim. "SSW1"	Dim. "SSW2"
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.		Horizontal			Transv. Mvmnt. (Double the Gap "PSS") (in.)	Disc Hole Dia. (in.)	Eff. Disc Dia. (in.)	Disc Thk. (in.)	Disc O.D. (in.)	Bottom Brg. PL Hole Dia. (in.)	Bottom Brg. PL O.D. (in.)	Bottom Brg. PL Recess Dia. (in.)	Total Bot. Brg. PL Thk. (in.)	Bottom Brg. PL Recess Depth (in.)	Proj. of Pin (in.)	Shear Pin Dia. (in.)	Shear Pin Length (in.)	Pin Intrusion Into Bottom Brg. PL (in.)	Pin Taper Length (in.)	Pin Intrusion Into Top PL. (in.)	Slide PL Width (in.)	Slide PL Length (in.)	Slide PL Thk. (in.)	Depth of Channel (in.)	Width of Channel (in.)	Stainless Length (All) (in.)	Side Stainless Width (in.)	Top Stainless Width (in.)
GE1C	Exist. Pier 7	Unit 1	G2	1	150	38	0.030	1.380	0.250	2.563	6.720	1.000	7.230	1.750	8.930	7.930	1.969	0.219	2.000	2.500	3.250	1.250	0.875	1.000	13.305	13.435	2.375	1.625	10.680	13.060	1.313	8.125
GE2C	Exist. Pier 7	Unit 1	G3	1	150	38	0.030	1.380	0.250	2.563	6.720	1.000	7.230	1.750	8.930	7.930	1.969	0.219	2.000	2.500	3.250	1.250	0.875	1.000	13.305	13.435	2.375	1.625	10.680	13.060	1.313	8.125
GE3C	Pier 2	Unit 1	G2	1	150	38	0.030	1.380	0.250	2.563	6.720	1.000	7.230	1.750	8.930	7.930	1.969	0.219	2.000	2.500	3.250	1.250	0.875	1.000	13.305	13.435	2.375	1.625	10.680	13.060	1.313	8.125
GE4C	Pier 2	Unit 1	G3	1	150	38	0.030	1.380	0.250	2.563	6.720	1.000	7.230	1.750	8.930	7.930	1.969	0.219	2.000	2.500	3.250	1.250	0.875	1.000	13.305	13.435	2.375	1.625	10.680	13.060	1.313	8.125
GE5C	Pier 2	Unit 2	G2	1	390	98	0.030	3.750	0.500	3.663	10.680	1.250	11.330	2.850	13.030	12.030	2.342	0.342	2.375	3.600	3.875	1.500	1.000	1.125	17.655	19.905	3.125	2.375	15.030	19.530	2.063	12.625
GE6C	Pier 2	Unit 2	G3	1	390	98	0.030	3.750	0.500	3.663	10.680	1.250	11.330	2.850	13.030	12.030	2.342	0.342	2.375	3.600	3.875	1.500	1.000	1.125	17.655	19.905	3.125	2.375	15.030	19.530	2.063	12.625
GE7C	Fwd. Abut.	Unit 2	G2	1	250	63	0.030	3.250	0.250	3.063	8.620	1.000	9.130	2.250	10.830	9.830	2.026	0.276	2.000	3.000	3.250	1.250	0.875	1.000	15.205	17.205	2.625	1.875	12.580	16.830	1.563	10.375
GE8C	Fwd. Abut.	Unit 2	G3	1	250	63	0.030	3.250	0.250	3.063	8.620	1.000	9.130	2.250	10.830	9.830	2.026	0.276	2.000	3.000	3.250	1.250	0.875	1.000	15.205	17.205	2.625	1.875	12.580	16.830	1.563	10.375

# A TABLE GE1B - Internal Components of Guided Exp. Bearings: Brg. Marks, Locations & Dimensions

				Deari	na Decerini										n Deering C	lata					ight
				Беагі	ng Descript	uon			1				Gui	de Plate/10	p Bearing P	riate		1		пе	igni
					Design	Design	Max.	TOTAL	TOTAL Design	Dim. "PSS"	Dim. "GPW"	Dim. "GPL"	Dim. "GPT"	Dim. "PD"	Dim. "PL"	Dim. "PW"	Dim. "HD"	Dim. "G"	Dim. "J"	Dim. "EH"	Dim. "TH"
Bearing Mark	Pier or Abutment	Unit	Girder	Qty.	Vertical Load (kips)	Horizontal Load (kips)	Design Rotation (rads)	Design Longit. M∨mnt. (in.)	Transv. Mvmnt. (Double the Gap "PSS") (in.)	Gap between SS & PTFE on Guides (in.)	Guide PL Width (in.)	Guide PL Length (in.)	Guide PL Thk. (in.)	Top PTFE Dia. (in.)	Side PTFE Length (in.)	Side PTFE Width (in.)	Depth of Blind Hole (in.)	Top Brg. PL Recess Dia. (in.)	Top Brg. PL Recess Depth (in.)	Total Brg. Height (excl. Brg. Pad) (in.)	Total Brg. Height (in.)
GE1C	Exist. Pier 7	Unit 1	G2	1	150	38	0.030	1.380	0.250	0.125	9.930	9.930	2.250	7.500	9.680	1.000	1.500	7.930	0.219	8.281	8.531
GE2C	Exist. Pier 7	Unit 1	G3	1	150	38	0.030	1.380	0.250	0.125	9.930	9.930	2.250	7.500	9.680	1.000	1.500	7.930	0.219	8.281	8.531
GE3C	Pier 2	Unit 1	G2	1	150	38	0.030	1.380	0.250	0.125	9.930	9.930	2.250	7.500	9.680	1.000	1.500	7.930	0.219	8.281	8.531
GE4C	Pier 2	Unit 1	G3	1	150	38	0.030	1.380	0.250	0.125	9.930	9.930	2.250	7.500	9.680	1.000	1.500	7.930	0.219	8.281	8.531
GE5C	Pier 2	Unit 2	G2	1	390	98	0.030	3.750	0.500	0.250	14.030	14.030	2.492	12.000	13.780	1.750	1.650	12.030	0.342	9.250	9.500
GE6C	Pier 2	Unit 2	G3	1	390	98	0.030	3.750	0.500	0.250	14.030	14.030	2.492	12.000	13.780	1.750	1.650	12.030	0.342	9.250	9.500
GE7C	Fwd. Abut.	Unit 2	G2	1	250	63	0.030	3.250	0.250	0.125	11.830	11.830	2.276	9.750	11.580	1.250	1.500	9.830	0.276	8.450	8.700
GE8C	Fwd. Abut.	Unit 2	G3	1	250	63	0.030	3.250	0.250	0.125	11.830	11.830	2.276	9.750	11.580	1.250	1.500	9.830	0.276	8.450	8.700





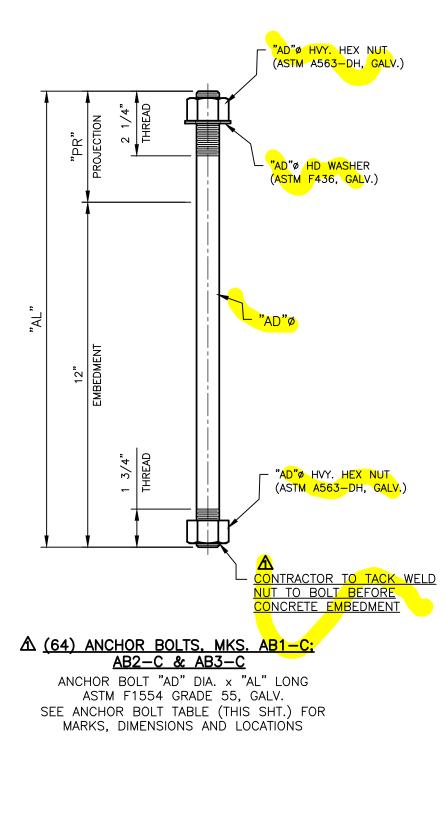
checked 2019-08-16



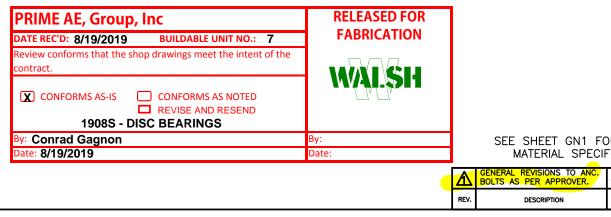
REVISED TABLES PER RE-DESIGN AS PER APPROVER. REV. DESCRIPTION

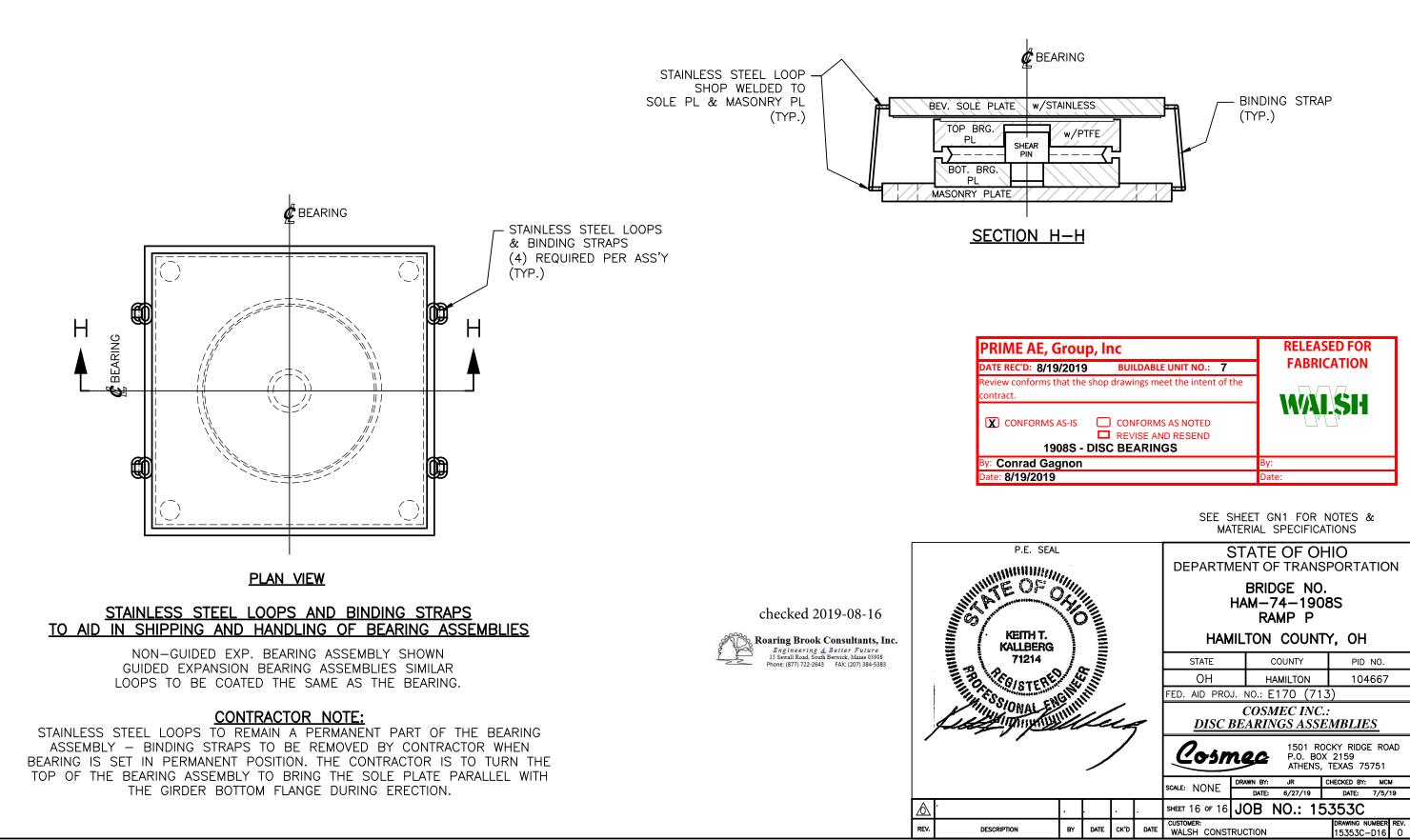
# SEE SHEET GN1 FOR NOTES & MATERIAL SPECIFICATIONS SEE SHEET 7 FOR GE DISC BEARING ASSEMBLY DETAILS

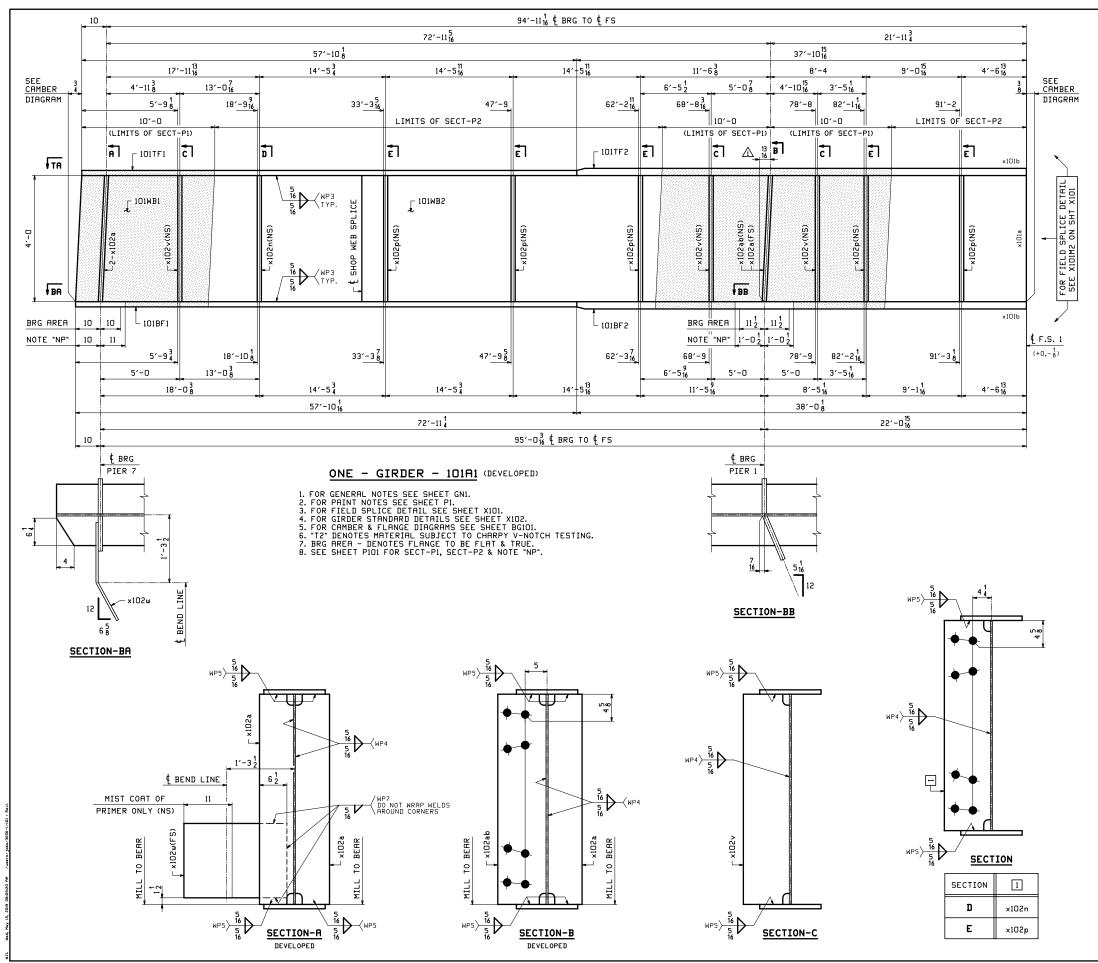
				DEPAR		-	E OF C		-		N
						HAM-	DGE NO 74-19 AMP P		S		
				H/	٩N	IILTON		TY	΄, OH		
į,	, E			STATE			COUNTY		PID	NO.	
				ОН		ł	AMILTON		104	667	
JR.	Į,			FED. AID P	RO	J. NO.:	E170 (7	13	)		
			-	DIS	C 1		MEC ING NGS ASS		MBLIE	E <u>S</u>	
				Cos	n	rec	P.O. B	SХ	KY RIDG 2159 EXAS 75		AD
				scale: NONE	-	DRAWN BY:	JR	Cł	IECKED BY:	MC	
						DATE:			DATE:	7/5/	19
JR	8/7/19	ELS	8/12/19	SHEET 14 OF 1	6	JOB	NO.: 1	53			
BY	DATE	CK'D	DATE	CUSTOMER: WALSH CON	IST	RUCTION			drawing n 15353C-		rev. 1



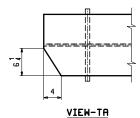
	<u>۸</u> <u>۸</u>			ABLE FOR	SIZES	AND LO	CATION	<u>IS</u>		
Bearing Mark	Pieror Abutment	Unit	Girder	Bearing Design Vertical Load (kips)	Qty.	Anchor Bolt Mark	Anchor Bolt Dia. "AD" (in.)	* Anchor Bolt Projection Req'd "PR" (in.)	Anchor Bolt TOTAL Length "AL" (in.)	
NGE1C	Exist. Pier 7	Unit 1	G1	150	4	AB1-C	1.000	3 <mark>.00</mark> 0	15.000	
GE1C	Exist. Pier 7	Unit 1	G2	150	4	AB1-C	1.000	3. <mark>00</mark> 0	15.000	
GE2C	Exist. Pier 7	Unit 1	G3	150	4	AB1-C	1.000	3. <mark>000</mark>	15.000	
NGE2C	Exist. Pier 7	Unit 1	G4	150	4	AB1-C	1.000	3.0 <mark>00</mark>	15.000	
NGE3C	Pier 2	Unit 1	G1	150	4	AB1-C	1.000	3.000	15.000	checked 2019-08-16
GE3C	Pier 2	Unit 1	G2	150	4	AB1-C	1.000	3.000	15.000	
GE4C	Pier 2	Unit 1	G3	150	4	AB1-C	1.000	3.000	15.000	
NGE4C	Pier 2	Unit 1	G4	150	4	AB1-C	1.000	3.00 <mark>0</mark>	15.000	<b>Roaring Brook Consultants, Inc.</b> <i>Engineering 2 Better Future</i> 15 Seval Road, South Berwick, Maine 03906
NGE5C	Pier 2	Unit 2	G1	390	4	AB1-C	1.000	3.000	15.000	15 Sewall Road, South Berwick, Mane 05908 Phone: (877) 722-2643 FAX: (207) 384-5383
GE5C	Pier 2	Unit 2	G2	390	4	AB2-C	1.125	3.62 <mark>5</mark>	15.625	
GE6C	Pier 2	Unit 2	G3	390	4	AB2-C	1.125	3.625	15.625	P.E. SEAL
NGE6C	Pier 2	Unit 2	G4	390	4	AB1-C	1.000	3.0 <mark>00</mark>	15.000	ANNINI 11/1/1/100
NGE7C	Fwd. Abut.	Unit 2	G1	250	4	AB1-C	1.000	3.000	15.000	INTE OF OM
GE7C	Fwd. Abut.	Unit 2	G2	250	4	AB3-C	1.000	3.250	15.250	NA STATISTICS
GE8C	Fwd. Abut.	Unit 2	G3	250	4	AB3-C	1.000	3.250	15.250	
NGE8C	Fwd. Abut.	Unit 2	G4	250	4	AB1-C	1.000	3.000	15.000	
*	= CONTRACT SHOWN. HIG									P.E. SEAL
-	RACTOR									Juli Minghing
THE MUST BOLT PROJ	RACTOR PROJECTI BE MAIN S. THIS I ECTIONS PONENTS.	ION DI NTAINE S NEE	D IN DED	THE FI TO INS	ELD \ URE	WHEN THAT T	CASTIN HE AN	IG IN TI	HE BOLT	STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P
THE MUST BOLT PROJ COMF	PROJECTI BE MAII S. THIS I ECTIONS PONENTS.	ION DI NTAINE S NEE	D IN DED	THE FI TO INS INTERFE	ELD VURE	WHEN ( THAT T 'ITH AN	CASTIN HE AN	IG IN TI	HE BOLT	STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P HAMILTON COUNTY, OH
THE MUST BOLT PROJ COMF	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. p, Inc	ON DI NTAINE S NEE WILL	D IN DED NOT	THE FI TO INS NTERFE RELEAS	ELD VURE RE W	WHEN ( THAT T 'ITH AN	CASTIN HE AN	IG IN TI	HE BOLT	STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P HAMILTON COUNTY, OH STATE COUNTY PID NO.
THE MUST BOLT PROJ COMF	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. <b>p, Inc</b>	ON DI NTAINE S NEE WILL	D IN DED NOT	THE FI TO INS INTERFE	ELD VURE RE W	WHEN ( THAT T 'ITH AN	CASTIN HE AN	IG IN TI	HE BOLT	STATE OF OHIO         DEPARTMENT OF TRANSPORTATION         BRIDGE NO.         HAM-74-1908S         RAMP P         HAMILTON COUNTY, OH         STATE       COUNTY         OH       HAMILTON
THE MUST BOLT PROJ COMF AE, Grou	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. <b>p, Inc</b> BUILDABLE e shop drawings me	ON DI NTAINE S NEE WILL	D IN DED NOT	THE FI TO INS NTERFE RELEAS	ELD VURE RE W	WHEN ( THAT T 'ITH AN	CASTIN HE AN	IG IN TI	HE BOLT	STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P HAMILTON COUNTY, OH STATE COUNTY PID NO.
THE MUST BOLT PROJ COMF AE, Grou 8/19/2019 orms that the DRMS AS-IS 1908S -	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. <b>p, Inc</b> <b>BUILDABLE</b> a shop drawings me <b>CONFORMS</b> <b>DISC BEARING</b>	ON DI NTAINE S NEE WILL UNIT NO.: et the intent	D IN DED NOT	THE FI TO INS NTERFE RELEAS FABRIC	ELD VURE RE W	WHEN ( THAT T 'ITH AN	CASTIN HE AN IY UPF	G IN TI ICHOR I PER BE	HE BOLT ARING	STATE OF OHIO         DEPARTMENT OF TRANSPORTATION         BRIDGE NO.         HAM-74-1908S         RAMP P         HAMILTON COUNTY, OH         STATE       COUNTY         OH       HAMILTON         104667         FED. AID PROJ. NO.: E170 (713)         COSMEC INC.:         DISC BEARINGS ASSEMBLIES
THE MUST BOLT PROJ COMF AE, Grou sorms that the	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. <b>p, Inc</b> <b>BUILDABLE</b> a shop drawings me <b>CONFORMS</b> <b>DISC BEARING</b>	ON DI NTAINE S NEE WILL UNIT NO.: et the intent	D IN DED NOT 7 of the	THE FI TO INS NTERFE RELEAS	ELD VURE RE W	WHEN ( THAT T 'ITH AN	CASTIN HE AN IY UPF	IG IN TI	HE BOLT ARING	STATE OF OHIO DEPARTMENT OF TRANSPORTATION         BRIDGE NO. HAM-74-1908S RAMP P         HAMILTON COUNTY, OH         STATE       COUNTY       PID NO.         OH       HAMILTON       104667         FED. AID PROJ. NO.: E170 (713)       COSMEC INC.: DISC BEARINGS ASSEMBLIES         ISO1 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751
THE MUST BOLT PROJ COMF AE, Grou : 8/19/2019 orms that the DRMS AS-IS 1908S - d Gagnon	PROJECTI BE MAIN S. THIS I ECTIONS PONENTS. <b>p, Inc</b> <b>BUILDABLE</b> a shop drawings me <b>CONFORMS</b> <b>DISC BEARING</b>	ON DI NTAINE S NEE WILL UNIT NO.: et the intent	D IN DED NOT 7 of the	THE FI TO INS INTERFE RELEAS FABRIC	ELD VURE RE W	WHEN THAT T TH AN	CASTIN HE AN IY UPF	ET GN1 FOR	HE BOLT ARING	STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE NO. HAM-74-1908S RAMP P         HAMILTON COUNTY, OH         STATE       COUNTY         PHAMILTON COUNTY, OH         STATE       COUNTY         PID NO.         OH       HAMILTON         104667         FED. AID PROJ. NO.: E170 (713)         COSMEC INC.: DISC BEARINGS ASSEMBLIES         ISO1 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751         SCALE: NONE       DRAWN BY:       JR         CHECKED BY:       MCM         DATE:       6/26/19         DATE:       6/26/19

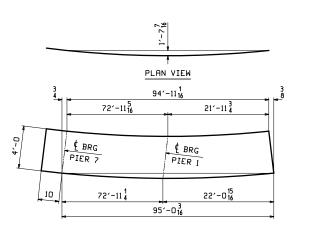






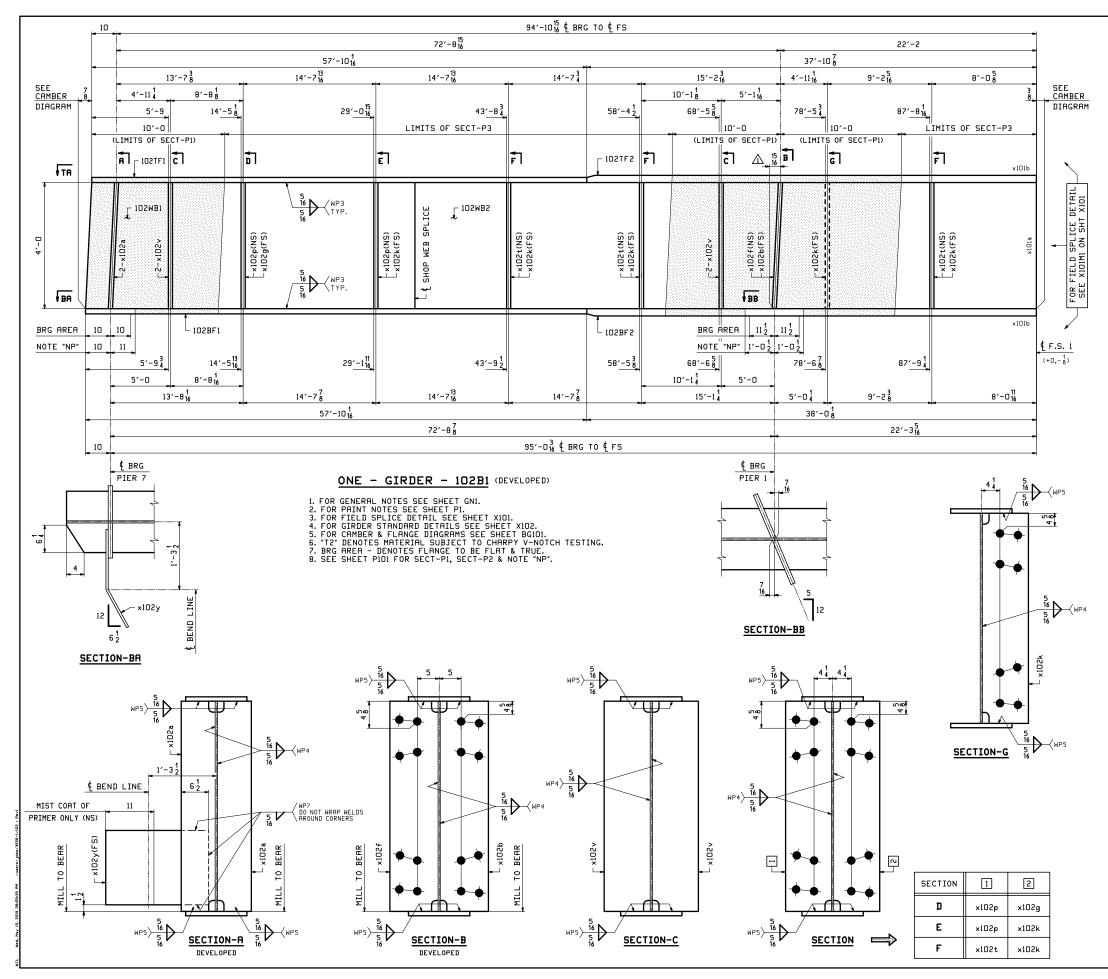
LΗZ	SHIP	NO.	ASS'Y			١	1ATERIAI	-	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	101A1	1		GIRDER					20156
2									
э		1	101WB1	PL 2×48	32	U	A209-50MT2	102 8	FP:20
4		1	101WB2	PL 2×48	63	1016	A709-50WT2	101 28	FP:20
5		1	101TF1	PL 8×14	57	10.8	A709-50WT2	101 26	FP:20
6		1	101TF2	PL 18×14	37	10 16	A709-50WT2	101 6	FP:20
7		1	101BF1	PL 8×14	57	10 16	A709-50WT2	101 26	FP:20
8		1	101BF 2	PL 18×14	38	08	A709-50WT2	101 2	FP:20
9									
10		3	×102a	PL 1×8	4	0	A709-50WT2		MIE FP:20
11		1	×102ab	PL 1×11	4	0 16	A709-50WT2		MIE FP:20
12		1	x102n	PL 2×102	4	0	R709-50WT2	104 3	FP:20
13		5	×102p	PL 2×102	4	0	A209-50WT2	104 3	FP:20
14		3	×102v	PL 2×102	4	U	A209-50MT2	104 4	FP:20
15		1	×102w	PL 2×17	1	11 2	A709-50WT2	104 6	BENT FP:20
16									



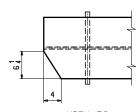


DEV. ORIENTATION DIAGRAM

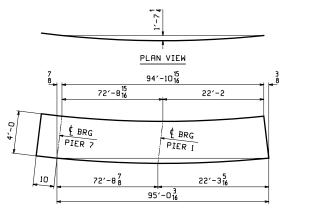
$\triangle$	05/13/1	19		ADDE	D BRG L	EAN D	IMENSION	1		EEO WJL
N0.	DATE				RE	1ARKS				BY
			_		REVISIONS					
							S ST		_	TENSOR
	Valuetaria	- CARRAN	Treasury 2-6	AU CLA	IRE, WI	3-WAUS	SAU, WI	4-PALATNA	, FL	3656-1
STRUCT	URE _	RAMP P O	VER IR-7	4 WB,	IR-75 8	RAME	PE-UN	IT 1		
LOCATIO	N _	CINCINNA	ті, он (н	AMILT	ION COU	NTY) S	STA. 230	+22.98		
PR0JEC	T NO	HAM-75-3	.84, PID	NO. 10	4667, B	RIDGE	NO. HAM	1-74-190	85	
ENGINEE	R _	PRIME AE	GROUP							
CONTRA	CTOR _	WALSH GR	OUP							
ITEM				(	GIRDER	~ 10	1A1			
	E PREP	SEE P1			OPEN	HOLES	1 <mark>9</mark> "Ø	OVS FOR	14"Ø HSB	(U.N.)
PAINT	_	SEE P1 &	AS NOTE	D				_		
PRELIMI	NARY		DRAWN	EEO	03/26/	19 5	SHEET NO.	PLANT	ORDER NO.	F.P. NO.
FOR AP	PROVAL		CHECKED	WJL	04/03/	19	101	3	18060F	1 20



LHN	SHIP	NO.	ASS'Y			١	1ATERIA	L	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	102B1	1		GIRDER					20626
2									
з		1	102WB1	PL 2×48	32	0	A209-50WT2	102 8	FP:20
4		1	102WB2	PL 2×48	63	1016	A709-50WT2	101 28	FP:20
5		1	102TF1	PL 8×14	57	1016	A709-50WT2	101 26	FP:20
6		1	102TF2	PL 18×14	37	10.8	A709-50WT2	101 6	FP:20
7		1	102BF1	PL 8×14	57	1016	A709-50WT2	101 26	FP:20
8		1	102BF2	PL 18×14	38	08	A709-50WT2	101 2	FP:20
9									
10		2	×102a	PL 1×8	4	0	A709-50WT2	104 2	MIE FP:20
11		1	×102b	PL 1×11	4	08	A709-50WT2		MIE FP:20
12		1	×102f	PL 1×11	4	08	A209-50WT2		MIE FP:20
13		1	×102g	PL 2×102	4	0	A209-50WT2	104 3	FP:20
14		5	×102k	PL 2×102	4	0	A709-50WT2	104 3	FP:20
15		2	×102p	PL 2×102	4	0	A709-50WT2	104 3	FP:20
16		3	×102t	PL 2×102	4	0	A709-50WT2	104 3	FP:20
17		4	×102v	PL 2×102	4	0	A709-50WT2	104 4	FP:20
18		1	×102y	PL 2×17	1	112	A709-50WT2	104 6	BENT FP:20
19									

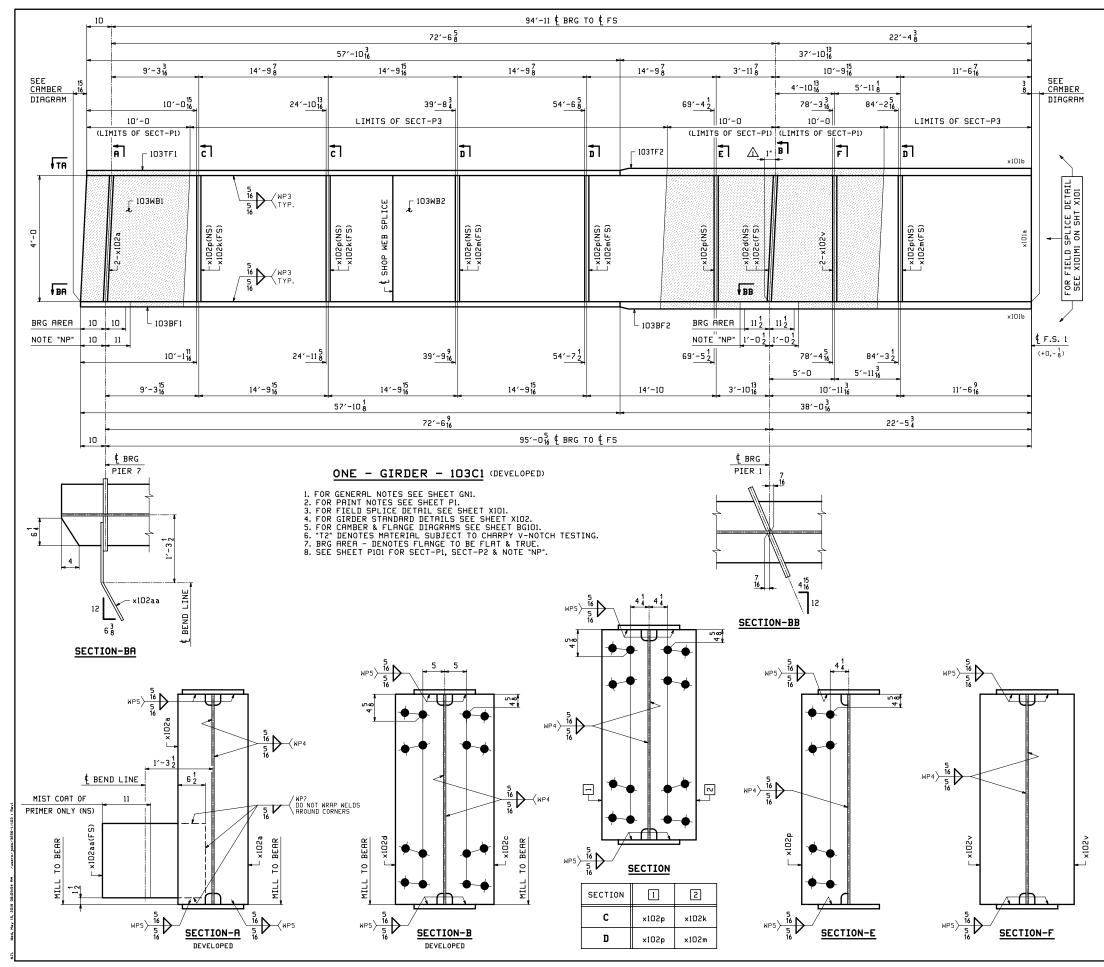






DEV. ORIENTATION DIAGRAM

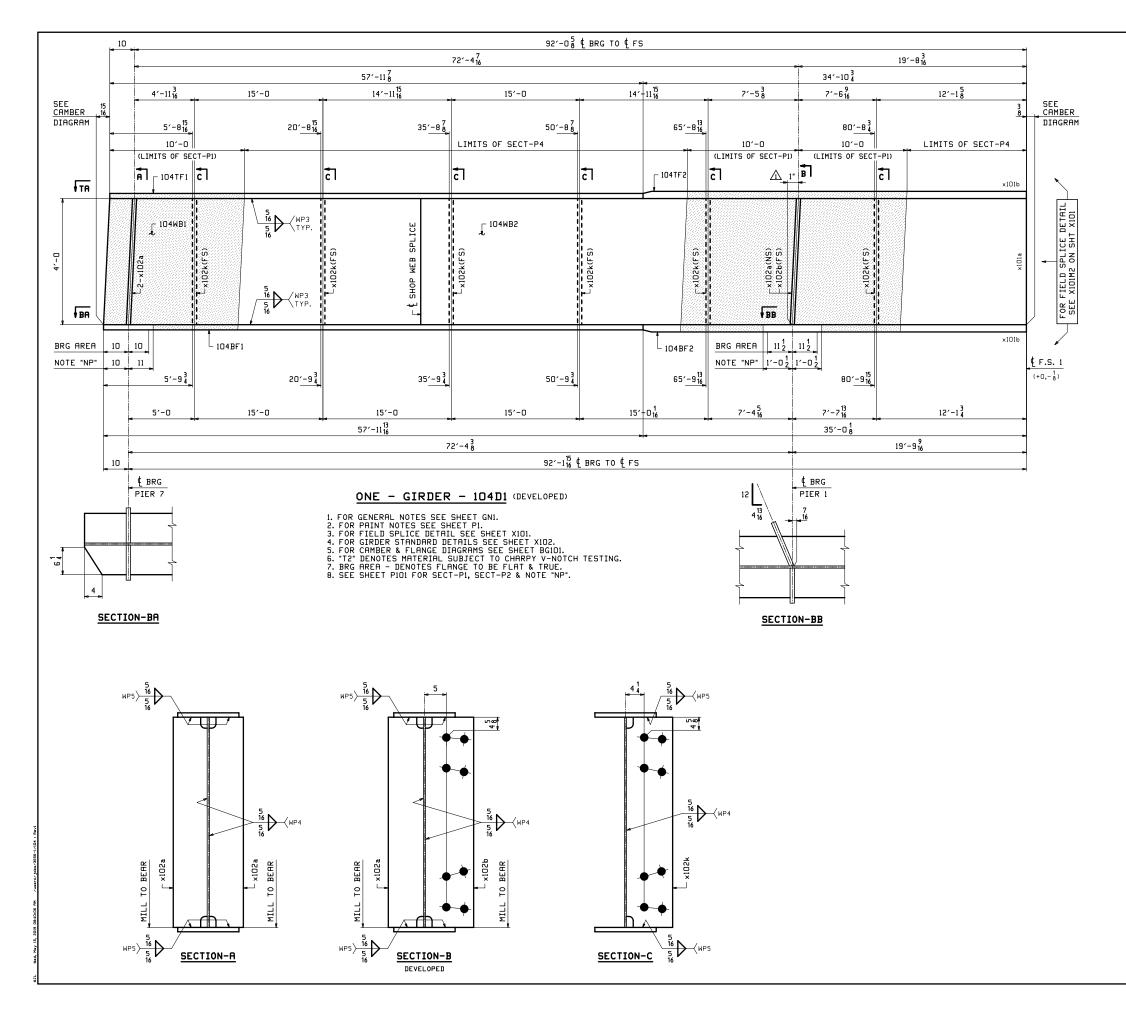
										EE0 /
$\triangle$	05/13/1	9		ADDE	D BRG L	EAN D	IMENSION	1		WJL
N0.	DATE				RE	1ARKS				BY
					REVISIONS					
							S ST			TENSOR 3555-1
STRUCT	URE _	RAMP P O' CINCINNA								
PROJECT	г мо	HAM-75-3	.84, PID	NO. 10	4667, B	RIDGE	NO. HAM	-74-190	8S	
ENGINEE	R _	PRIME AE	GROUP							
CONTRA	CTOR _	WALSH GR	OUP							
ITEM	_			(	GIRDER	~ 102	2B1			
SURFAC	E PREP	SEE P1				I HOLES	1 <sub>16</sub> "¢ (	OVS FOR	14"¢ HSB	(U.N.)
PAINT	_	SEE P1 &	AS NOTE	D				_		
PRELIMIN	NARY		DRAWN	EE0	04/01/	19 S	SHEET NO.	PLANT	ORDER NO.	
FOR AP	PROVAL		CHECKED	WJL	04/03/	19	102	3	18060	8  20



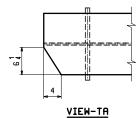
	MARK		ASS'Y				1ATERIA		
1		OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
	103C1	1		GIRDER					20484
2									
Э		1	103WB1	PL 2×48	32	0	A709-50WT2	102	FP:2
4			103WB2	PL 2×48	63	1016	A709-50WT2	101	FP:2
5			103TF1	PL 8×14	57	1016	A709-50WT2 A709-50WT2	101/26	FP:2
6		-	103TF2	PL 18×14	37	1016	H709-50WT2 A709-50WT2	6	FP:2
7			103BF1	PL 8×14	57	10.8	A709-50WT2	101 26	FP:2
8		1	103BF2	PL 18×14	38	0 16		2	FP:2
9		-					A709-50WT2	104	
10			×102a	PL 1×8	4	0	A709-50WT2		MIE FP:
11			x102aa	PL 2x17	1		A709-50WT2	104 6	BENT FP:2
12			x102c x102d	PL 1x11	4		A709-50WT2		MIE FP:2
13			×102d ×102k	PL 1x11 PL 1x102	4	08	A709-50WT2	104 5	
14 15			x102k x102m	PL 2×102 PL 2×102	4	0	A709-50WT2	104	FP:2
15			×102m ×102p	PL 2×102 PL 2×102	4	0	A709-50WT2	104	FP:
16	1		×102p ×102v	PL 2×102 PL 2×102	4	0	A709-50WT2	104 4	FP:2
18		<u> </u>		2402				<b>1</b>	FP:2
				4 <u>VIE</u>	EW-1	<u>A</u>			
				P	2-,1 - LAN	VIE	<u>v</u>		3

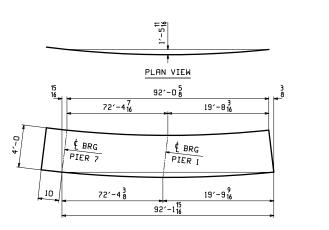
PIER 7 E BRG PIER 1 10 72'-6% 22'-54 95'-0<mark>5</mark> DEV. ORIENTATION DIAGRAM EEO WJL BY ⚠ 05/13/19 ADDED BRG LEAN DIMENSION DATE REMARKS NO. **Veritas** steel 2-EAU CLAIRE, WI 3-WAUSAU, WI 4-PALATKA, FL TENSOR 3656-1 RAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT TRUCTURE

CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98 LOCATION HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-19085 RO FCT NO PRIME AE GROUP INGINEER WALSH GROUP ONTRACTOR GIRDER ~ 103C1 ТЕМ SEE P1 SURFACE PREP SEE P1 & AS NOTED PAINT PRELIMINARY DRAWN EE0 04/02/19 103 3 18060A 20 FOR APPROVA CHECKED WJL 04/03/19



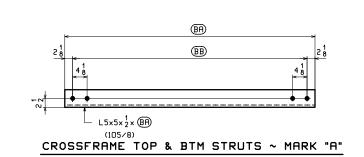
LI	SHIP	NO.	ASS'Y			١	1ATERIA	L	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	104D1	1		GIRDER					19163
2									
э		1	104WB1	PL 2×48	32	0	A209-50WT2	102 8	FP:20
4		1	104WB2	PL 2×48	60	11 16	A709-50WT2	101 30	FP:20
5		1	104TF1	PL 8×14	57	11.8	A709-50WT2	101 26	FP:20
6		1	104TF2	PL 18×14	34	104	A709-50WT2	101 8	FP:20
7		1	104BF1	PL 8×14	57	1116	A709-50WT2	101 26	FP:20
8		1	104BF2	PL 18×14	35	08	A709-50WT2	101 4	FP:20
9									
10		3	×102a	PL 1×8	4	0	A709-50WT2		MIE FP:20
11		1	×102b	PL 1×11	4	0.8	A709-50WT2		MIE FP:20
12		6	×102k	PL 2×102	4	0	A709-50WT2	104 3	FP:20
13									





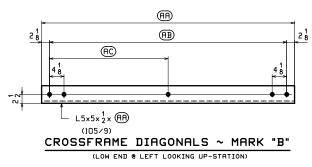
DEV. ORIENTATION DIAGRAM

		_								EE0 /
	05/13/1	19		ADDE	D BRG L	EAN DI	IMENSIO	N		WJL
NO.	DATE				RE	MARKS				BY
			_		REVISIONS					
								TEE		17
	Villen	VGEQV	<u>()))</u> 2-E	AU CLA	ire, Wi	3-WAUS	AU, WI	4-PALATKA	<b>4, FL</b>	TENSOR 3656-1
STRUCT	URE _	RAMP P O	VER IR-7	4 WB,	IR-75	& RAMP	E - U	NIT 1		
LOCATIO	DN _	CINCINNA	ті, он (н	AMILT	ON COU	NTY) S	тя. 230	)+22.98		
PROJEC	T NO	HAM-75-3	.84, PID	NO. 10	4667, B	RIDGE	NO. HR	M-74-19C	)8S	
ENGINE	ER _	PRIME AE	GROUP							
CONTRA	CTOR _	WALSH GR	OUP							
ITEM				(	GIRDER	~ 104	D1			
	E PREP.	SEE P1			OPE	N HOLES	1 <sup>9</sup> 16"Ø	OVS FOR	14"¢ HSB	(U.N.)
PAINT	_	SEE P1 &	AS NOTE	נ	0,			_		
PRELIMI	NARY		DRAWN	EE0	04/02/	19 S	HEET NO.			
FOR AP	PROVAL		CHECKED	WJL	04/08/	19	104	3	18060	a  20



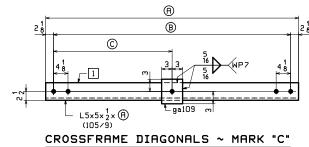
	MARK	QTY	BA	BB
	109C1A	2	7'-11 <sup>13</sup>	7'-7 <sup>9</sup>
	109C2A	10	7'-11 <sup>13</sup>	7'-7 <mark>9</mark>
•	109C2AP	2	7'-11 <sup>13</sup>	7'-7 <mark>9</mark>
	109C3A	<u>∧</u> 8	7'-11 <sup>13</sup>	7'-7 <mark>9</mark>
•	109C3AP	<u>∧</u> 6	7'-11 <sup>13</sup>	7'-7 <mark>9</mark>
	109C4A	14	7'-11 <mark>7</mark>	7'-785
	109C5A	12	7'-11 <mark>7</mark>	7'-78
	109C6A	4	7'-11 <sup>15</sup>	7'-7 <sup>11</sup> 16





	MARK	QTY	(AA)	AB	(AC)
	109C1B	1	8'-2 <sup>9</sup>	7'-10 <sup>5</sup>	3'-11 <sup>3</sup>
	109C2B	5	8'-2 <mark>7</mark>	7'-10 <mark>3</mark>	3'-11 <mark>1</mark>
-	109C2BP	1	8'-2 <mark>7</mark>	7'-10 <mark>3</mark>	3'-11 <mark>8</mark>
	109C3B	₫ 4	8'-2 <sup>5</sup>	7'-10 1/6	3'-11 <sup>1</sup>
-	109C3BP	£ β	81-2 <mark>5</mark>	7'-10 <mark>1</mark> 6	3′-11 <sup>1</sup> 16
	109C4B	7	8'-2 <mark>3</mark>	7'-9 <sup>15</sup>	3'-11
	109C5B	6	8′-2	7'-9 <mark>4</mark>	3'-10 <mark>7</mark>
	109C6B	2	8'-1 <sup>7</sup> 8	7'-9 <sup>5</sup>	3'-10 <sup>13</sup>

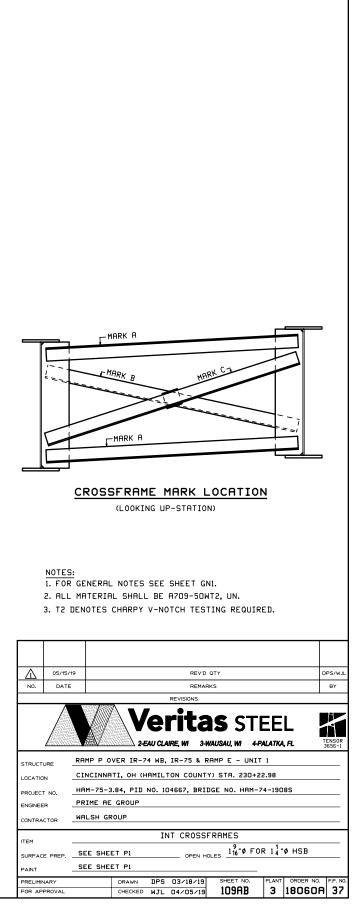
				-	. 0	
	COR	TFD	(SFF	SH	IT P	1)



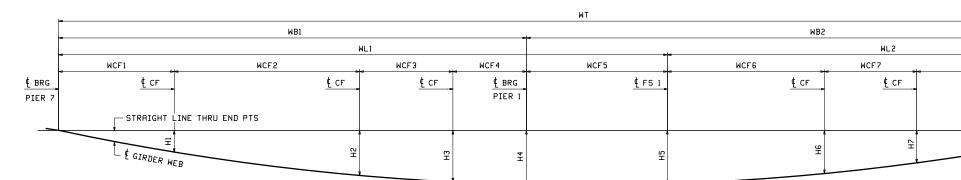
(LOW END @ LEFT LOOKING UP-STATION)

1						
	MARK	QTY	A	B	Ô	1
	109C1C	1	8'-3 <mark>9</mark>	7'-11 <sup>5</sup>	3′-11 <sup>11</sup> 16	a109
	109C2C	5	8'-3 <sup>3</sup>	7'-11 <mark>1</mark>	3'-11 <mark>3</mark>	b109
•	109C2CP	1	8'-34	7'-11 <mark>1</mark>	3'-11 <mark>3</mark>	b109
	109C3C	☆ 4	8′-3 <sup>15</sup>	7'-11 <sup>11</sup>	3'-11 <mark>8</mark>	c109
-	109C3CP	∆ з	8'-3 <mark>1</mark> 5	7'-11 <sup>11</sup> 16	3'-11 <mark>8</mark>	c109
	109C4C	7	8'-4 <mark>1</mark>	7'-11 <mark>7</mark>	3′-11 <sup>15</sup>	d109
	109C5C	6	8'-4 <mark>5</mark>	8'-0 <mark>1</mark> 6	4'-0 <mark>1</mark> 6	f109
	109C6C	2	8'-4 <sup>1</sup> 2	8'-0 <mark>4</mark>	4'-0 <mark>8</mark>	g109

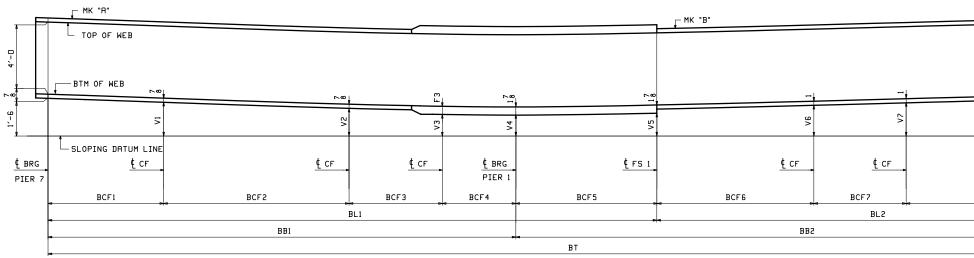
PRIME COATED (SEE SHT P1)



SHIP	NO.					MATERIF	ηL			SHIP	NO.	ASS'Y				1ATERIA	IL		
MARK	OF PCS.	MARK	SHAPE	LEI FT.	NGTH IN	MATERIAL SPEC.	ITEM NO.	REMARKS	Ē	MARK	OF PCS.	MARK	SHAPE	LEN FT.	IGTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	3
109C1C	1		DIAGONALS					139	1 10	.09C1A	2		L 5x5x 2	7	11 13	A709-50WT2	105 8		12
<b></b>		a109	L 5x5x2	8		A709-50WT2 A709-50WT2	105 9		2				1		12	9709-EONT2	105 /		1
	1	ga109	PL 2×6	0	6	11/05/50472	105		3 10 4	09C2A	10		L 5x5x 2	7	11 16	A709-50WT2	105 8		
109C2C	5		DIAGONALS					139		09C2AP	2		L 5x5x 2	7	11 13	A709-50WT2	105	PRINTED	1
		b109	L 5×5×2	8	34		105 9		6										
<b> </b>	5	ga109	PL 2×6	0	6	A709-50WT2	105			09C3A	<u> </u>		L 5×5×2	7	11 13	A709-50WT2	105 8		1
				_	-			139	8				1	-	13	A709-50WT2	105 8		1
109C2CP	1	b109	DIAGONALS L 5×5×2	8	3	8709-50WT2	105 9	PAINTED	9 10	09C3AP	<u>/1 6</u>		L 5×5×2	7					
	-	ga109	PL 2×6	0		A709-50WT2	105			09C4A	14		L 5×5× 2	7	11 8	A709-50WT2	105 8		
		0	-				1.0		12				-						
109C3C	<u>∧</u> ₄		DIAGONALS		10	A709-50WT2	105	140		.09C5A	12		L 5x5x2	7	11 8	A709-50WT2	105 8		
	<u> </u>	c109 ga109	L 5x5x2	8		R709-50WT2	105 9 105 10		14				1		15	A709-50WT2	105 8		
	/1\ 4	galU9	PL 2×6	0	6				15 II 16	09C6A	4		L 5×5×2	7	1116				
109C3CP	Л з		DIAGONALS					PRINTED 140	17										
	<u>Л</u> з		L 5×5×2	8	31	A709-50WT2	105 9		18 10	09C1B	1		L 5×5×2	8	2 9 2 16	A709-50WT2	105 9		
	<u>/1 3</u>	ga109	PL 2×6	0	6	A709-50WT2	105		19				1		7	8709-50WT2	105 /		
109040	7		DIAGONALS	-	-	+	-	140		09C2B	5		L 5×5×2	8		A709-50WT2	105 9		
09C4C	-	d109	L 5x5x 2	8	4 8	A209-50WT2	105 9		21 22 10	09C2BP	1		L 5x5x 2	8	27	A709-50WT2	105 9	PAINTED	
		ga109	PL 2×6	0		A709-50WT2	105		23		Ľ								
									24 10	.09C3B	<u>∧</u> ₄		L 5x5x 2	8	2 <sup>5</sup> 16	A709-50WT2	105 9	1	
09C5C	6		DIAGONALS	+	-	A709-50WT2	105 /	140	25								105 -		
		f109 ga109	L 5×5×2 PL 2×6	8		H709-50WT2 H709-50WT2	105 9 105 10	<u> </u>		09C3BP	<u> ГГ з</u>		L 5×5×2	8	216	A709-50WT2	9	PRINTED	
	6	gatus	ITL 2×b		6	+	- 10		27 28 10	09C4B	7		L 5×5×2	p	23	A709-50WT2	105 9		
09C6C	2		DIAGONALS	1				140	29 10	50010	Ĺ			Ŭ					
	2	g109	L 5×5×2	8	4 2	A709-50WT2	105 9			09C5B	6		L 5×5×2	8	2	A709-50WT2	105 9		
	2	ga109	PL 2×6	0	6	A709-50WT2	105		31				1		7	8209-50WT2	105 /		
				_					32 10 33	.09C6B	2		L 5x5x 2	8	18	A209-50WT2	105 9		
									34										_
										<u> </u>	15/19 ATE				REV	D QTY ARKS		1	DPS
	1. F 2. A	ALL MA	NERAL NOTE TERIAL SHAU DTES CHARP	L BE	E A7	09-50WT2,		IRE D.	STRUC			INCINNA AM-75-3	VER IR-74 MB TI, OH (HRMIL 0.84, PID NO. 1	, IR-	REM. SIONS 4 4 4 3 75 & COUN	<b>BS</b> S <i>WAUSAU, W</i> RAMP E - L TY) STR. 23	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE	TERIAL SHAU	L BE	E A7	09-50WT2,		IRE D.	STRUC	JCTURE		INCINNA AM-75-3 RIME AE	VER IR-74 WB TI, OH (HAMIL 1.84, PID NO. 1 GROUP	AIRE, M	REM. SIONS 4 4 4 3 75 & COUN	<b>BS</b> S <i>WAUSAU, W</i> RAMP E - L TY) STR. 23	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE	TERIAL SHAU	L BE	E A7	09-50WT2,		IRE D.	NO. STRUC LOCA <sup>1</sup> PROJE ENGIN	JCTURE		INCINNA AM-75-3	VER IR-74 WB TI, OH (HAMIL 1.84, PID NO. 1 GROUP	AIRE, M	REM. SIONS 4 4 4 3 75 & COUN	<b>BS</b> S <i>WAUSAU, W</i> RAMP E - L TY) STR. 23	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE	TERIAL SHAU	L BE	E A7	09-50WT2,		IRE D.	NO. STRUC LOCAT PROJE ENGIN CONTE	JCTURE NTION NEER		INCINNA AM-75-3 RIME AE	VER IR-74 WB TI, OH (HAMIL 1.84, PID NO. 1 GROUP 20UP	AIRE, M	REM. SIONS W 3 75 & COUN 7, BR	<b>BS</b> S <i>WAUSAU, W</i> RAMP E - L TY) STR. 23	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE	TERIAL SHAU	L BE	E A7	09-50WT2,		IRED.	NO. STRUC LOCA <sup>1</sup> PROJE ENGIN	JCTURE NTION NEER	ATE Rf C: HI PI	INCINNA AM-75-3 RIME AE ALSH GR	VER IR-74 WB ITI, OH (HAMIL 1.84, PID NO. ) GROUP 20UP	AIRE, M	REM. SIONS W 3 75 & COUN 7, BR	ARKS <b>BS</b> S -WAUSAU, WI RAMP E - L TY) STA. 23 IDGE NO. HF	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE ALL MA 2 DEN	TERIAL SHAU	_L BE Y V−ř	E A7	09-50WT2, CH TESTING	G REQU	IRED. EET 109AB	NO. STRUC LOCAT PROJE ENGIN CONTE	JCTURE NTION NEER	ATE Rf C: PI	INCINNA AM-75-3 RIME AE	VER IR-74 WB ITI, OH (HAMIL 1.84, PID NO. ) GROUP 20UP	ARE, W	REMA ROSS	ARKS <b>BS</b> S -WAUSAU, WI RAMP E - L TY) STA. 23 IDGE NO. HF	4-PALA	EL TKA, FL	
	1. F 2. A	OR GE ALL MA 2 DEN	TERIAL SHAU	_L BE Y V−ř	E A7	09-50WT2, CH TESTING	G REQU		NO. STRUC LOCAT PROJE ENGIN CONTE	JCTURE ATION RECT NO. NEER RACTOR	ATE Rf C: HI PI WI PI PI	INCINNA AM-75-3 RIME AE ALSH GR	VER IR-74 WB ITI, OH (HAMIL 1.84, PID NO. ) GROUP 20UP I ET P1	ARE, W	REMA ROSS	ARKS <b>BS</b> S WAUSAU, M RAMP E - L TY) STA. 23 IDGE NO. HF SFRAMES	4-PALA	EL TKA, FL	B



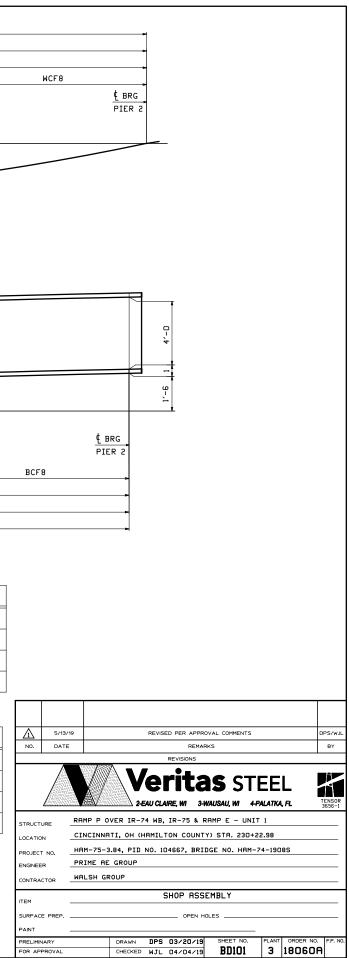


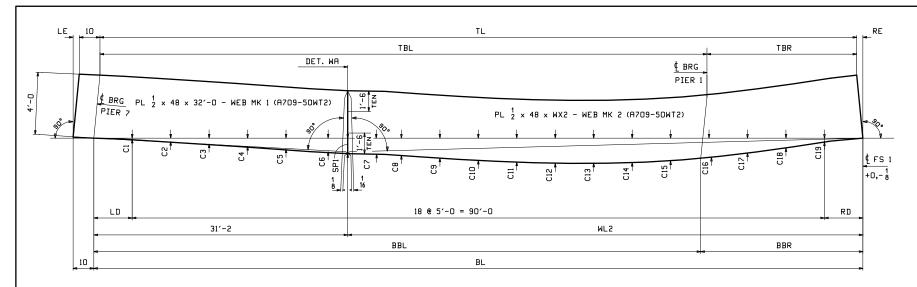


DEVELOPED SECTION A-A DIMENSIONS GIVEN ALONG & WEB

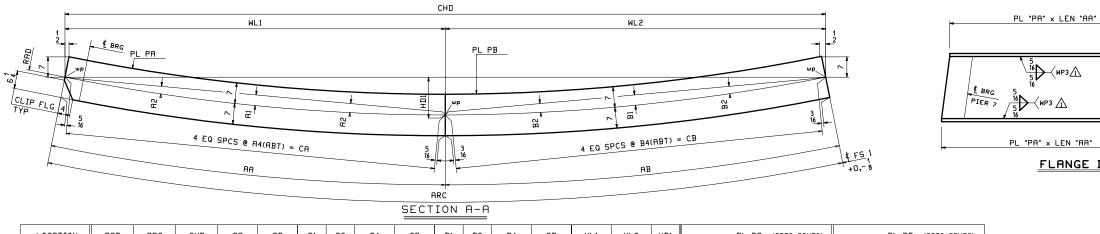
LINE	A	В	BT	BL1	BL2	V1	٧2	٧З	V4	۷5	V6	٧7	BB1	BB2	BCF1	BCF2	BCF3	BCF4	BCF5	BCF6	BCF7	BCF8	F3
1	101A1	105A2	163'-0 <mark>8</mark>	95′-0 <mark>3</mark>	68'-0 <mark>11</mark>	1'-3 <mark>3</mark>	1'-1 <sup>7</sup> 16	11 8	11 <mark>7</mark> 11 16	1'-0 <mark>1</mark>	1'-2 <sup>7</sup> 16	1'-3 <sup>5</sup>	72'-11 4	90'-1 <mark>8</mark>	18'-0 <mark>3</mark>	28′-11 <mark>1</mark>	14'-5 <sup>13</sup>	11'-5 <mark>9</mark>	22'-0 <mark>15</mark>	24'-4 <mark>3</mark>	14'-5 <sup>3</sup>	29′-2 <mark>3</mark>	1 8
2	102B1	10682	160'-8 <mark>8</mark>	95′-0 <mark>3</mark>	65′-7 <sup>15</sup>	1'-4 1 16	1'-2	1'-0 <mark>1</mark>	11 <sup>3</sup>	1'-0 <sup>7</sup> 16	1'-2 <sup>9</sup>	1'-3 <sup>7</sup> 16	72'-8 <mark>8</mark>	87'-11 4	13'-8 <mark>8</mark>	29'-38	14'-7 <mark>8</mark>	15'-14	22′-3 <mark>5</mark>	21'-3 <sup>1</sup> 16	14'-78	29′-9	187
3	103C1	107C2	158'-3 <mark>9</mark>	95′-0 <mark>5</mark>	63'-3 <mark>4</mark>	1'-4 <sup>1</sup> <sub>2</sub>	1-27	1-1916	1'-0	1'-0 <sup>11</sup> 16	1'-2 <sup>11</sup> 16	1'-3 <sup>7</sup> 16	72'-6 <mark>9</mark>	85′-9	9′-3 <sup>15</sup>	29'-7 <mark>8</mark>	14'-9 <sup>15</sup>	18'-8 <sup>13</sup>	22'-54	18'-1 <sup>7</sup>	14'-9 <mark>8</mark>	30'-3 <mark>15</mark>	7 8
4	104D1	108D2	155′-11 <mark>8</mark>	92'-1 <mark>15</mark>	63′-9 <mark>1</mark> 6	1'-4 <mark>3</mark>	1'-2 <sup>11</sup> 16	1'-14	1'-0 <mark>3</mark>	1'-0 8	1'-2 <sup>15</sup>	1'-3 <mark>4</mark>	72′-4 <sup>3</sup>	83′-6 <sup>3</sup>	5'-0	30'-0	15'-0	22'-4 <sup>3</sup>	19'-9 <mark>9</mark>	17'-10 <mark>7</mark>	15'-0	30'-10 <mark>4</mark>	7 8

LINE	A	В	WT	WL1	WL2	H1	H2	НЗ	H4	Н5	Н6	Н7	WB1	WB2	WCF1	WCF2	WCF3	WCF4	WCF5	WCF6	WCF7	WCF8
1	101A1	105A2	162'-8 <mark>8</mark>	94'-9 <sup>15</sup>	67'-10 <mark>7</mark>	1'-10 1/2	3′-11	4'-5 <sup>13</sup> 16	4'-885	4'-7 <sup>11</sup> 16	3′-8 <sup>15</sup>	2'-98	72′-9	89'-11 8	17'-11 4	28′-10 <mark>9</mark>	14'-5 <sup>11</sup> 16	11'-5 <mark>1</mark>	22'-0 <sup>15</sup>	24'-4 <sup>9</sup>	14'-5 <sup>3</sup>	29'-0 <sup>1</sup> 2
2	10281	106B2	160'-3 <mark>1</mark> 5	94'-10 <mark>1</mark>	65′-5 <sup>13</sup>	1'-5 <mark>8</mark>	3'-7 <mark>1</mark>	4'-2 <sup>9</sup> 16	4'-6 <mark>7</mark>	4'-5 <mark>8</mark>	3′-7 <sup>15</sup>	2'-9 <sup>1</sup> 8	72'-6 <sup>13</sup>	87'-9 <mark>8</mark>	13'-7 <mark>3</mark>	29'-2 <sup>11</sup>	$14'-7\frac{3}{4}$	15'-1 <mark>3</mark>	22'-3 <mark>5</mark>	21'-28	14'-7 12	29'-7 <mark>7</mark>
3	103C1	107C2	157'-11 <mark>5</mark>	94'-10 <mark>5</mark>	63'-1 <mark>5</mark>	11 16	3'-3 <mark>8</mark>	3'-11 <mark>5</mark>	4'-4 <sup>5</sup>	4'-2 <sup>9</sup> 16	3′-7	2'-8 8	72'-48	851-7	9′-3 <mark>8</mark>	29'-6 <sup>3</sup>	14'-9 <mark>4</mark>	18'-8 <mark>3</mark>	22'-5 <mark>11</mark>	18′-1 <mark>5</mark>	14'-98	30'-28
4	104D1	108D2	155'-7 <mark>2</mark>	92'-0 <mark>8</mark>	63'-7 <sup>3</sup>	6 <sup>1</sup> / <sub>4</sub>	2'-11 <sup>3</sup>	3′-8 <mark>1</mark> 6	4'-2 <sup>5</sup>	4'-0 <mark>8</mark>	3'-6	2'-8 <sup>1</sup> 8	72'-2 <mark>9</mark>	83'-4 <sup>15</sup>	4'-11 <sup>11</sup> 16	29'-10 <mark>13</mark>	14'-11 <mark>3</mark>	22'-4 <sup>5</sup>	19'-9 <mark>9</mark>	17'-10 <sup>5</sup>	14'-1111	30'-98

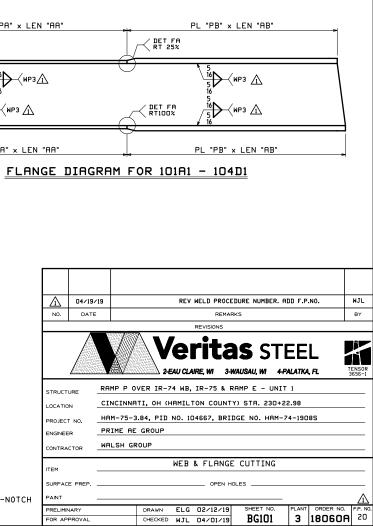


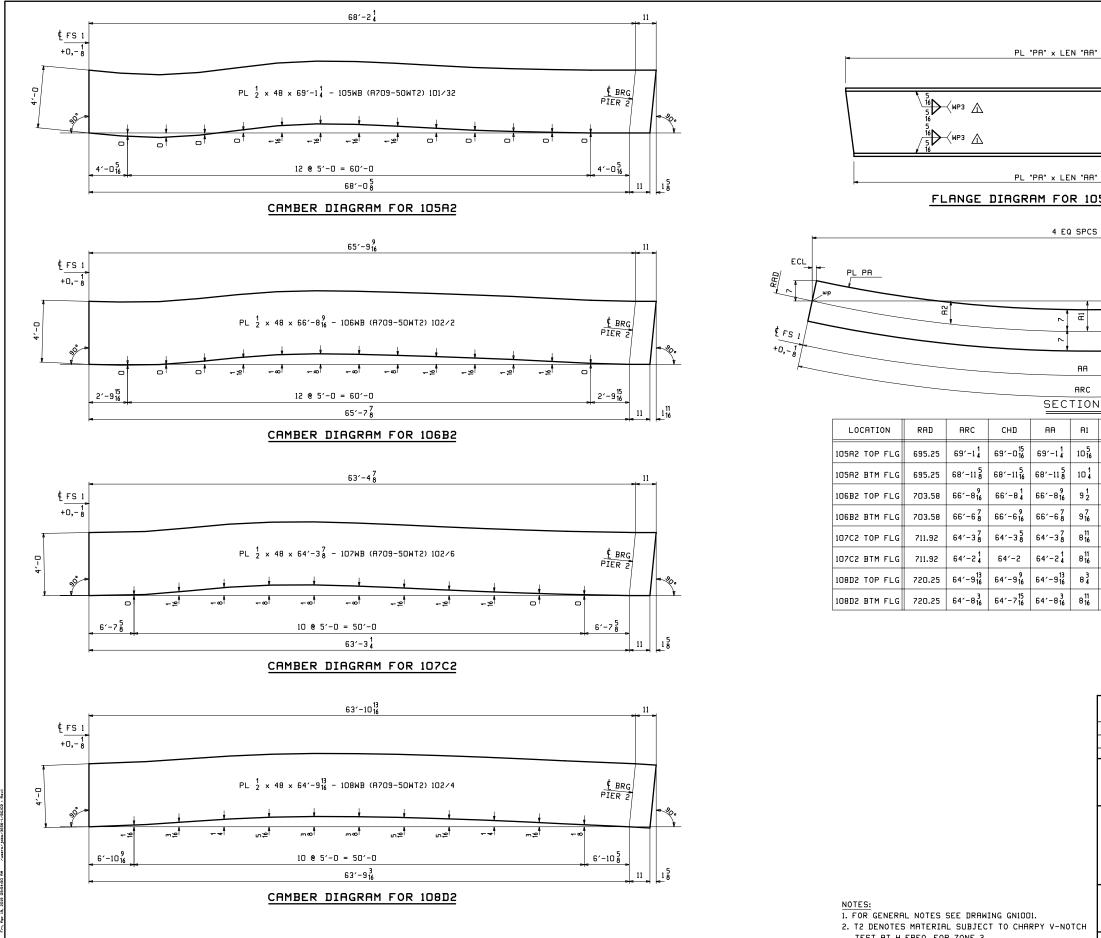


MARK	TL	BL	LE	RE	WL2	WX2	SP1	TBL	TBR	BBL	BBR	LD	RD	CI	C2	СЗ	C4	C5	CG	С7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	WEB MK 1	PG∕LINE	WEB MK 2	PG∕LINE
101A1	94'-11 <mark>1</mark>	95′-0 <mark>3</mark>	3 4	3 8	63'-10 <mark>3</mark>	63'-10 <mark>3</mark>	1 <mark>3</mark> 1 16	72'-11 <mark>5</mark>	21'-11 4	72'-114	22'-0 <mark>15</mark>	2'-6 <mark>8</mark>	2'-6 <mark>1</mark> 6	1 16	1 4	7 16	5 8	13 16	1 1 1 16	1 4	1 <mark>7</mark> 1 16	185	1 <mark>3</mark>	18	1 15 1 16	1 15 1 16	1 13 1 16	1 <sup>11</sup> 1 <sup>16</sup>	18	1 <mark>1</mark> 1 16	11 16	1 4	101WB1	102/8	101WB2	101/28
102B1	94'-1016	95′-0 <sup>3</sup>	7 8	3 8	63'-10 <mark>3</mark>	63'-10 <mark>3</mark>	18	72'-8 <sup>15</sup>	55,-5	72'-8 <mark>8</mark>	22'-3 <mark>5</mark>	2'-6 <mark>8</mark>	2'-6 <mark>1</mark> 6	1 8	5 16	1 2	11 16	13 16	1	1 <mark>3</mark> 1 16	1 <sup>5</sup> 1 <sub>16</sub>	1 <sup>1</sup> <sub>2</sub>	185	14	1 13 1 16	1 13 1 16	1 11 1 16	1 <sup>9</sup> 1 16	1 <sup>5</sup> 1 <sub>16</sub>	1	5 8	3 16	102WB1	102/8	102WB2	101/28
103C1	94'-11	95′-0 <sup>5</sup>	15 16	3 8	63'-10 <mark>5</mark>	63'-10 <mark>5</mark>	1 1 1 16	72'-6 <sup>5</sup>	22'-4 <sup>3</sup>	72'-6 <mark>9</mark>	22'-5 <mark>3</mark>	2'-6 <mark>8</mark>	2'-6 <sup>3</sup> 16	1 16	1 4	7 16	5 8	3 4	15 16	1 1 1 16	14	18	1 <sup>1</sup> <sub>2</sub>	185	1 <sup>11</sup> 1 <sub>16</sub>	1 11 1 16	18	12	1 <sup>5</sup> 1 <sub>16</sub>	1	5 8	3 16	103WB1	102/10	103WB2	101/28
104D1	92'-0 8	92'-1 <sup>15</sup>	15 16	3 8	60'-11 <mark>15</mark>	60'-11 <mark>15</mark>	18	72'-4 <mark>7</mark>	19'-8 <mark>3</mark>	72'-4 <sup>3</sup>	19'-9 <mark>9</mark>	1'-1	1'-0 <sup>15</sup>	1 16	14	7 16	5 8	13 16	1	18	14	18	12	185	185	185	1 <mark>9</mark> 1 16	1 <sup>7</sup> 116	1 <mark>3</mark> 1 16	7 8	1 2	1 16	104WB1	102/8	104WB2	101/30



LOCATION	RAD	ARC	СНД	AA	AB	A1	A2	A4	CA	B1	B2	B4	СВ	WL1	WL2	HD1	PL PA (8709-50WT2)	PL PB (A709-50WT2)
101A1 TOP FLG	695.25	95′-9 <mark>1</mark> 6	95′-8 <sup>1</sup> 8	57'-10 <mark>1</mark>	37'-10 <mark>15</mark>	7 <mark>3</mark> 7 16	5 <sup>7</sup> 16	14'-5 <mark>2</mark>	57′-9 <sup>15</sup>	3 <mark>8</mark>	2 <sup>5</sup> 16	9′-5 <sup>3</sup> 4	37'-10 <mark>7</mark>	57'-9 <sup>5</sup>	37'-10 <mark>1</mark>	1′-6 <sup>15</sup>	PL <sup>7</sup> / <sub>8</sub> × 14-101TF1 (101∕26)	PL 1 <sup>5</sup> / <sub>8</sub> × 14-101TF2 (101/6)
101A1 BTM FLG	695.25	95'-10 <mark>3</mark>	95'-94	57'-10 <mark>1</mark> 6	38'-0 <mark>8</mark>	7 <mark>3</mark> 7 16	5 <sup>7</sup> 516	14'-5 <mark>7</mark>	57'-9 <mark>8</mark>	3 <sup>1</sup> 8	2 <sup>5</sup> 16	9′-6	38'-0 <mark>1</mark> 6	57'-9 <mark>9</mark>	37′-11 <sup>11</sup>	1′-6 <sup>15</sup>	PL <sup>7</sup> / <sub>8</sub> × 14-101BF1 (101∕26)	PL 1 <sup>7</sup> / <sub>8</sub> × 14-101BF2 (101/2)
102B1 TOP FLG	703.58	95′-8 <mark>1</mark> 5	95′-8 <mark>1</mark> 6	57'-10 <mark>1</mark> 6	37'-10 <mark>8</mark>	7 <mark>1</mark>	58	14'-5 <mark>7</mark>	57'-9 <mark>8</mark>	3 16	2 <sup>5</sup> 16	9′-5 <sup>11</sup>	37'-10 <mark>13</mark>	57'-9 <mark>8</mark>	37'-10 <mark>7</mark>	1′-6 <sup>11</sup> 16	PL <sup>7</sup> / <sub>8</sub> × 14−102TF1 (101⁄26)	PL 1 <sup>5</sup> × 14-102TF2 (101∕6)
102B1 BTM FLG	703.58	95′-10 <mark>3</mark>	95′-9 <mark>1</mark> 6	57'-10 <mark>1</mark> 6	38'-0 <mark>8</mark>	7 <mark>1</mark>	5 <sup>3</sup> 8	14'-5 <mark>7</mark>	57'-9 <mark>8</mark>	3 1 3 16	2 <sup>5</sup> 16	9′-6	38'-0 <mark>1</mark> 6	57'-98	37′-11 <sup>11</sup>	1'-6 <mark>3</mark>	PL <sup>7</sup> / <sub>8</sub> × 14−102BF1 (101⁄26)	PL 1 <sup>7</sup> <sub>8</sub> × 14-102BF2 (101/2)
103C1 TOP FLG	711.92	95′-9	95′-8 <mark>8</mark>	57'-10 <mark>3</mark>	37'-10 <mark>13</mark>	7 <mark>1</mark> 7 16	5 <sup>5</sup> 16	14'-5 <mark>2</mark>	57′-10	3	24	9′-5 <sup>11</sup>	37'-10 <mark>3</mark>	57'-9 <sup>3</sup>	37'-10 <sup>3</sup>	1′-6 <sup>7</sup> 16	PL <sup>7</sup> <sub>8</sub> × 14-103TF1 (101/26)	PL 1 <sup>5</sup> × 14-103TF2 (101∕6)
103C1 BTM FLG	711.92	95′-10 <sup>5</sup>	95′-9 <mark>7</mark>	57'-10 <mark>1</mark>	38'-0 <mark>3</mark>	7 <mark>1</mark> 7 16	5 <sup>5</sup> 16	14'-5 <mark>2</mark>	57'-9 <mark>1</mark> 5	3 1 3 16	2 <sup>5</sup> 16	9′-6 <mark>1</mark> 6	38'-0 <mark>8</mark>	57'-9 <mark>1</mark> 1	37'-11 <mark>3</mark>	1'-6 <mark>1</mark>	PL <sup>7</sup> / <sub>8</sub> × 14−103BF1 (101⁄26)	PL 1 <sup>7</sup> <sub>8</sub> × 14-103BF2 (101/2)
104D1 TOP FLG	720.25	92'-10 8	92'-98	57'-11 8	34'-10 <sup>3</sup>	7	5 <sup>1</sup> 4	14'-5 <sup>15</sup>	57'-11 <sup>11</sup>	2 <sup>9</sup> 216	18	8'-8 <sup>11</sup> 16	34'-10 <sup>11</sup>	57'-11 <mark>1</mark>	34'-10 <sup>3</sup>	1'-4 <sup>13</sup> 16	PL <sup>7</sup> <sub>8</sub> × 14-104TF1 (101/26)	PL 1 <sup>5</sup> × 14-104TF2 (101∕8)
104D1 BTM FLG	720.25	92′-11 <sup>15</sup>	92'-11 3	57'-11 <sup>13</sup>	35'-0 <mark>8</mark>	7	5 <mark>4</mark>	14'-5 <sup>15</sup>	57'-11 <sup>5</sup>	2 <sup>9</sup> 16	1 15 1 16	8′-9	35′-0 <mark>1</mark> 6	57'-11 <sup>7</sup>	34'-11 4	1'-4 8	PL <sup>7</sup> <sub>8</sub> × 14-104BF1 (101/26)	PL 18 × 14-104BF2 (101/4)





1. FOR GENERAL NOTES SEE DRAWING GNIDDI. 2. T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TEST AT H FREQ. FOR ZONE 2

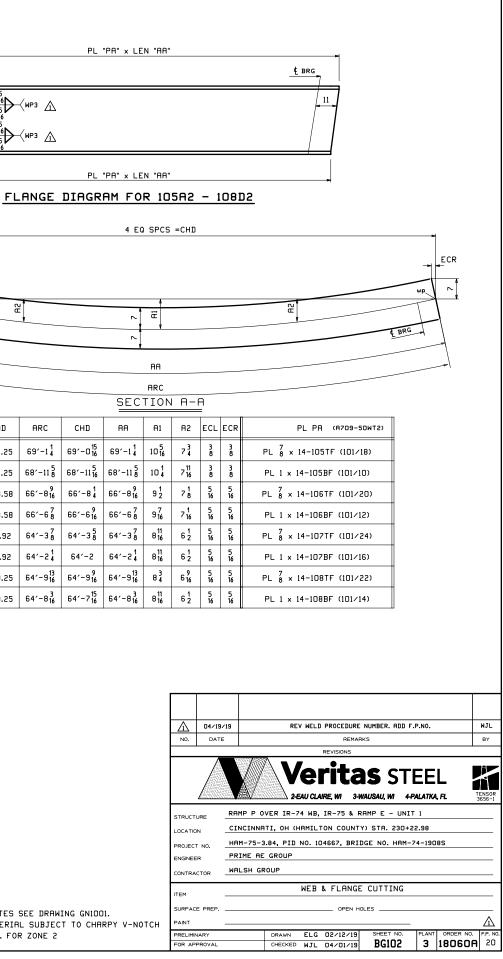
₩P3 <u>A</u>

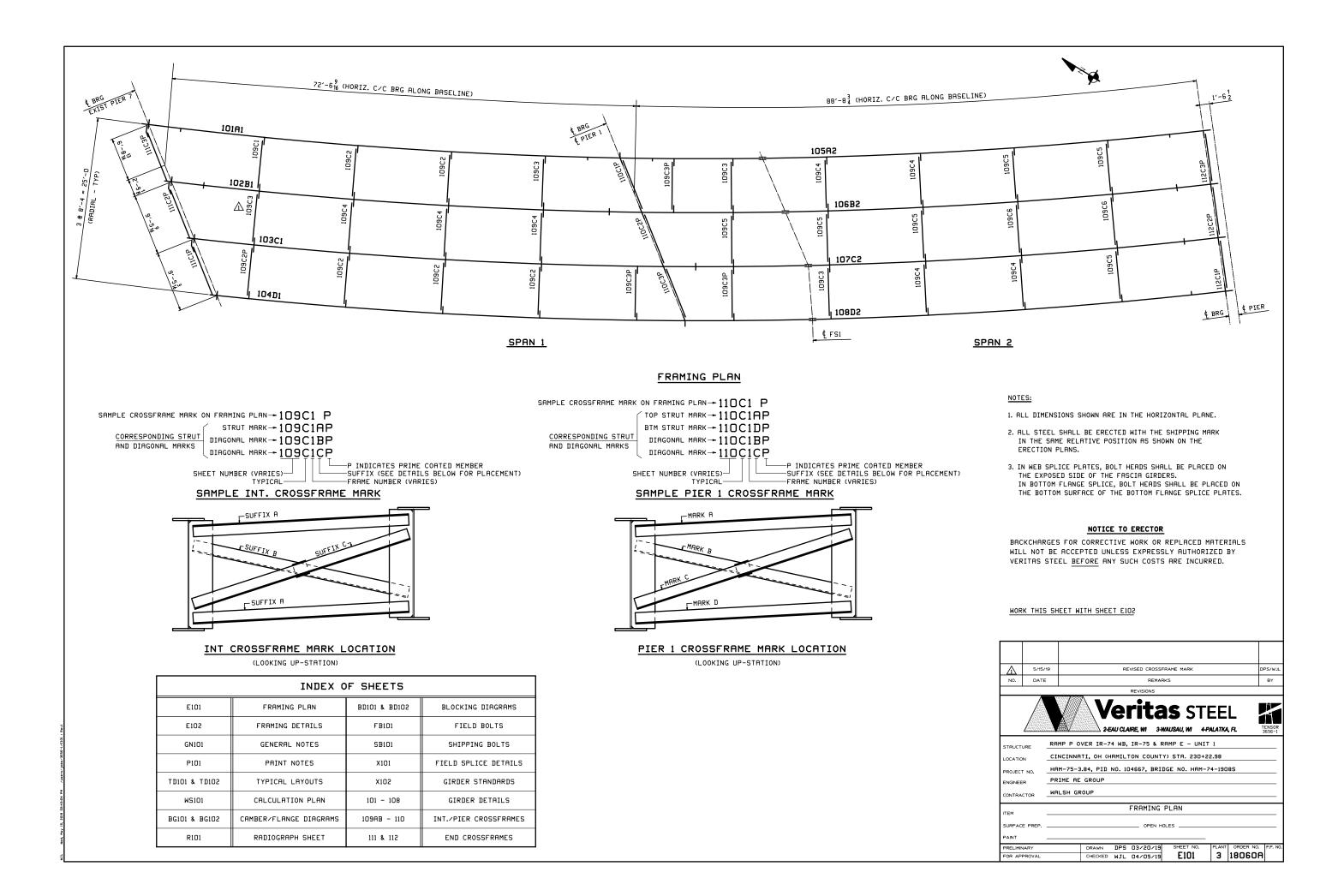
ARC

СНД

AA

Æ





.INE	FIELD NO REG'D.	BOLT	BOLT	BOLTS	OF CONN.	GRIP	1		уре 3 50 ГР	NNECTE	ED	HASH CODE	PIECES CONNECTED AND REMARKS
1													FIELD SPLICE 1
2	128	1	5 <sup>1</sup> <sub>2</sub>	32	4	34	1	18	18			1	TOP FLANGE SPLICE
3	192	1	2 4	48	4	14	38	1 2	38			1	WEB SPLICE
4	128	1	5 <sup>1</sup> <sub>2</sub>	32	4	4	1	18	18			1	BOTTOM FLANGE SPLICE
5													

		FIELD	BOLT	LIST				A	190 T	уре З	B	OLTS			
	LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS	OF CONN.	GRIP	THI	CKNES	5 0F P	cs. co	NNECTE	ED	WASH Code	PIECES CONNECTED AND REMARKS
	6														INT CROSSFRAME - CF1
$\triangle$	7	200	14	з	8	25	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
$\triangle$	8	200	14	3	8	25	1	1 2	1 2					2	DIAG-STIFF
$\triangle$	9	25	14	3 <sup>1</sup> <sub>2</sub>	1	25	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
	10														
	2: 2	Hard	Flat	Was	hers			ŀ	NASH	IER	сор	ES			

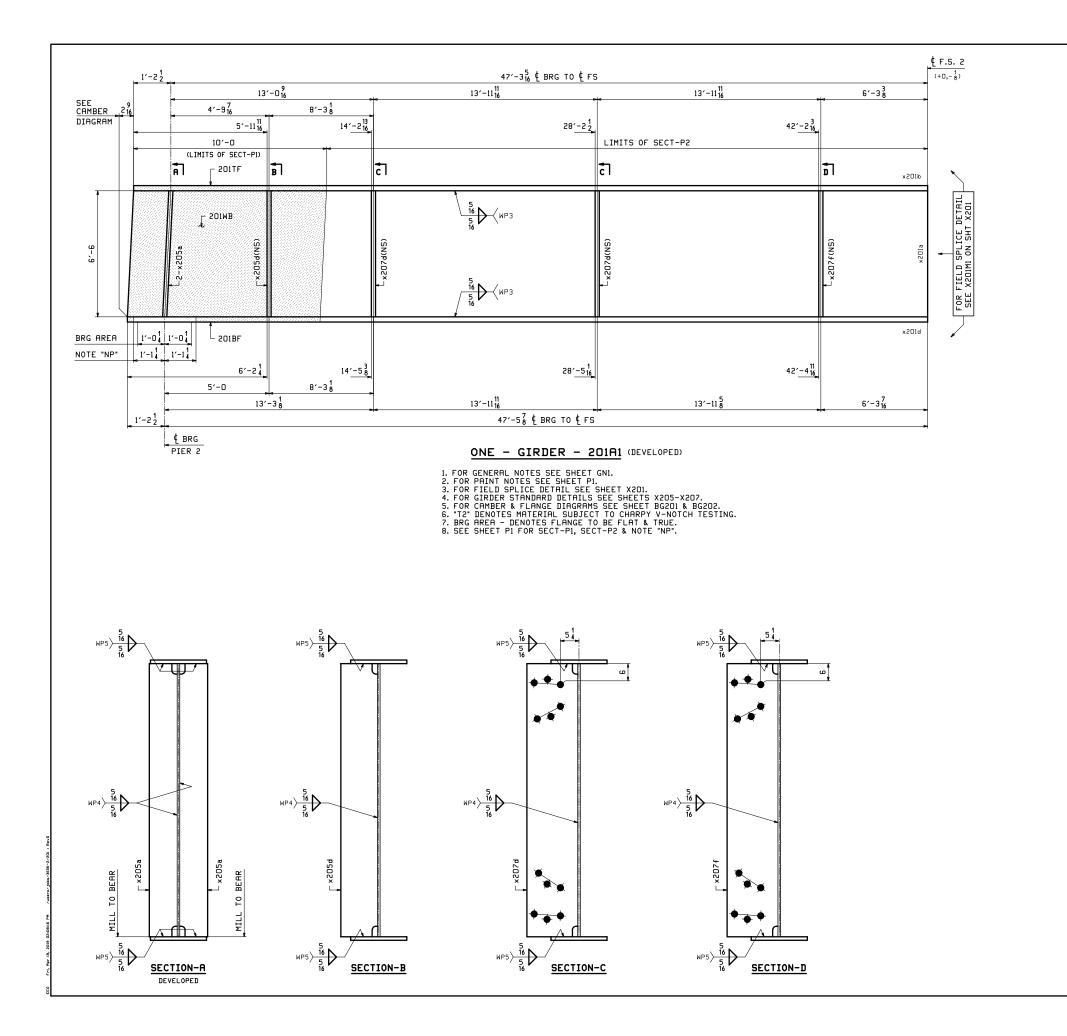
									$\triangle$						
		FIELD	BOLT					A490	Type	3 F1	136 A	NNEX			
	LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS	OF CONN.	GRIP	THI	CKNES	5 OF P	cs. co	NNECTE	ED	WASH Code	PIECES CONNECTED AND REMARKS
	11														INT CROSSFRAME - CF1
$\triangle$	12	32	14	3	8	4	1	1 2	1					2	TOP/BTM STRUT-STIFF
$\triangle$	13	32	14	З	8	4	1	1 2	1 2					2	DIAG-STIFF
$\triangle$	14	4	14	3 <sup>1</sup> <sub>2</sub>	1	4	1 <sup>1</sup> 2	1 2	1 2	1				2	DIAG-FILL PL-DIAG
	15														
	16														PIER CROSSFRAME - CF1
	17	24	14	3 <sup>1</sup> <sub>2</sub>	8	з	12	1 2	1					2	TOP/BTM STRUT-STIFF
	18	24	14	3 <sup>1</sup> 2	8	з	12	1 2	1					2	DIAG-STIFF
	19	з	14	4	1	з	2	1 2	1	1				2	DIAG-FILL PL-DIAG
	2: 2	Hard	Flat	Was	hers			٢	NASH	IER	COD	ES			

(CONNECTIONS TO PAINTED GIRDER CONNECTION PLATES ONLY) ROT'L CAPACITY TEST REQ'D

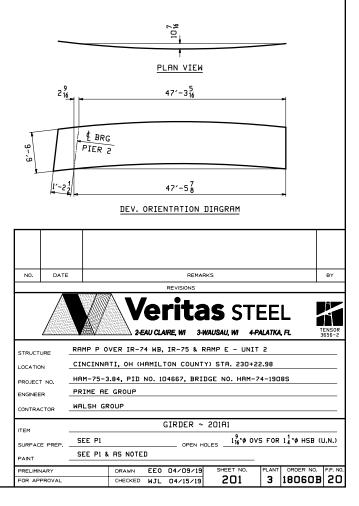
E         Intervent         SHAPE         LENGTH         MATERIAL         ITEM         REMARKS           1         FIELD BOLTS         SK + 5 ADDED         SK + 5 ADDED         SK + 5 ADDED           2         FIELD BOLTS         MATERIAL         SK + 5 ADDED         SK + 5 ADDED           3         72 bpk6         11 + HBB         0         3         M490-3         DDS         GRAPH FIES AMEX ALL           4         60 bpn6         12 + HBB         0         3         M490-3         DDS         GRAPH FIES AMEX ALL           5         8 bpt6         12 + HBB         0         4         M490-3         DDS         GRAPH FIES AMEX ALL           6         280 wg6         12 + HBB         0         4         M490-3         DDS         GRAPH FIES AMEX ALL           5         8 bpt6         12 + HBB         0         3         M490-3         DS         GRAPH FIES AMEX ALL           6         280 wg6         12 + HBB         0         3         M490-3         DS         GRAPH FIES AMEX ALL           7         140 ng6         12 + HBB         0         3         M490-3         DZ         GRAPH FIES AMEX ALL           10         31 bpn6         12 + HBB <td< th=""><th></th><th>LI</th><th>SHIP</th><th>NO.</th><th>ASS'Y</th><th></th><th></th><th>١</th><th>1ATE</th><th>RIAL</th><th></th><th></th></td<>		LI	SHIP	NO.	ASS'Y			١	1ATE	RIAL		
2		E	MARK	OF PCS.	MARK	SHAPE						REMARKS
3       72       bpk6       1,4 + HSB       0       3       P490-3       105       G6HSTM F136 MMKX R1         4       60       bp16       1,4 + HSB       0       3,2       P490-3       105       G2HSTM F136 MMKX R1         5       8       bp16       1,4 + HSB       0       4       P400-3       105       G2HSTM F136 MMKX R1         6       2800       ug6       1,4 + HSB       0       4       P400-3       105       G2HSTM F136 MMKX R1         6       2800       ug6       1,4 + HSB       0       4       P400-3       105       G2BNSTM F136 MMKX R1         7       1140       ng6       1,4 + HSB       0       3       P490-3       107       G2SNSTM F136 MMKX R1         8       11       Add       HSB       0       3,2       P490-3       107       G2SNSTM F136 MMKX R1       P490         9       Add2 bpk6       1,4 + HSB       0       3,1       P490-3       107       G2SN       G139       P490-3       107       G2SN       G139       G2SN       F26       G300       P26       G300       P26       G300       P26       G300       P26       G300       P26       G300       P26		1				FIELD BOLTS						5% + 5 ADDED
3       1       2       ppbb       1       a HSB       0       3       pHSD-3       DS       5       5       GREATH FILSE AMEX ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	- [	2										(ACTUAL COUNT)
4       60 bpn6       14 + HSB       0       32       P490-3       105-7       (S2RSTH F136 RMEX R1 Arbs)         5       8       bp16       14 + HSB       0       4       P490-3       D5-7       (S2RSTH F136 RMEX R1 Arbs)         6       A280 Wg6       14 + HSB       0       4       P490-3       D5-7       (S2RSTH F136 RMEX R1 Arbs)         7       A140 ng6       14 + HSB       0       4       P490-3       D5-7       (S2RSTH F136 RMEX R1 Arbs)         9       A425 bp16       14 + HSB       0       3       PH90-3       D7-5       (d0D)       FFE         9       A425 bp16       14 + HSB       0       3       P490-3       D7-5       (d0D)       FFE         10       A3 lpn6       14 + HSB       0       3       P490-3       D7-5       (d0D)       FFE         11       A12 wg6       14 + HSB       0       3       P490-3       D7-5       (d0D)       FFE         12       A456 ng6       14 + HAN       P486-3       D7-6       (d2D)       FFE         13		э	4	1 72	bpk6	14 Ø HSB	0	3			1	(64)RSTM F1136 ANNEX AL
3     0     0     0     1     4     4     5     3     0     4 <td></td> <td>4</td> <td></td> <td>1 eo</td> <td>bpn6</td> <td>14 Ø HSB</td> <td>0</td> <td>32</td> <td></td> <td></td> <td>1</td> <td></td>		4		1 eo	bpn6	14 Ø HSB	0	32			1	
7     140 ng6     1, e HeN     133     140 ng6     1, e HeN       9     1425     bpk6     1, e HeS     0     3     1490-3     075     (100)     FP46       9     10     31     bpn6     1, e HS     0     3     1490-3     075     (400)     FP46       10     31     bpn6     1, e HS     0     3     1490-3     077     (25)     FP46       11     912     ug6     1, e HS     0     3     1490-3     077     (25)     FP46       12     1455     ng6     1, e HS     0     3     1960-3     076     (425)     FP46       13     14     556     ng6     1, e HS     0     2, at 196-3     076     (425)     FP46       14     207     bgg3     1 e HS     0     2, at 196-3     084     (192)     FP46       15     274     bkc3     1 e HS     0     5, at 285-3     08-7     108-7     (256)     FP46       16     481     ud3     1 e HS     7438-3     09-8     (448)     FP46       19     1     1 e HS     1     1     1     1     1     1       20     1     1		5		8	bpt6	14 Ø HSB	0	4				(3)ASTM F1136 ANNEX AL 43,86
7     140 ng6     1, e HeN     133     140 ng6     1, e HeN       9     1425     bpk6     1, e HeS     0     3     1490-3     075     (100)     FP46       9     10     31     bpn6     1, e HS     0     3     1490-3     075     (400)     FP46       10     31     bpn6     1, e HS     0     3     1490-3     077     (25)     FP46       11     912     ug6     1, e HS     0     3     1490-3     077     (25)     FP46       12     1455     ng6     1, e HS     0     3     1960-3     076     (425)     FP46       13     14     556     ng6     1, e HS     0     2, at 196-3     076     (425)     FP46       14     207     bgg3     1 e HS     0     2, at 196-3     084     (192)     FP46       15     274     bkc3     1 e HS     0     5, at 285-3     08-7     108-7     (256)     FP46       16     481     ud3     1 e HS     7438-3     09-8     (448)     FP46       19     1     1 e HS     1     1     1     1     1     1       20     1     1		6	4	1280	wg6	14 Ø HSW					10628	
9       A425       bpk6       11 0 HSB       0       3       H490-3       107       (400)       FP26         10       31       bpn6       11 0 HSB       0       32       H490-3       107       (25)       FP26         11       A912       ug6       11 0 HSB       0       32       H490-3       107       (25)       FP26         11       A912       ug6       11 0 HSB       0       32       H490-3       107       (25)       FP26         12       A456       ng6       11 0 HSB       F436-3       D276       (480)       FP26         13       A55       ng6       11 0 HSB       D       21       R325-3       108       (182)       FP26         14       207       bg33       1 0 HSB       D       52       R325-3       108       (182)       FP26         15       274       bKc3       1 0 HSB       D       52       R325-3       108       (182)       FP26         16       481       hd3       1 0 HSB       F53       Dp13       D923       (440)       FP26         19            23       24		7	4	<u>1</u> ∖140	ng6	14 ¢ HHN			A563	Динз	106 29	(119)ASTM F1136 ANNEX A1
3       14 9 K5B       U       3       25 (400)       FFB         10       31 bpn6       14 9 K5B       0       32       P436-3       027       (23)       FFB         11       512 wg6       14 9 K5B       0       32       P436-3       027       (23)       FFB         12       1456 ng6       14 9 K5B       0       32       P436-3       027       (42)       FFB         12       1456 ng6       14 9 K5B       0       24       P353       DB43       0723       (42)       FFB         13		θ										
10     11     11     912     12     14     918     1     14     918     1     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     14     918     12     14		9	4	1425	bpk6	14 Ø HSB	0	3			/ 5	(400) A FP:86
11     12     14     953     28     680     14     FPed       12     14     14     14     14     14     1753     101     123     1425)     17       13     14     207     bgg3     14     14     1207     123     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     1425)     122     122     123     123     123     123     123     123     124     125     1446)     124     125     1460)     124     125     126		10	4	<u>î</u> 31	bpn6	14 Ø HSB	0	32			/ 7	(25) A FP:86
13     - </td <td></td> <td>11</td> <td></td> <td>1 912</td> <td>wg6</td> <td>14 Ø HSW</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(850) A FP:86</td>		11		1 912	wg6	14 Ø HSW						(850) A FP:86
13     - </td <td></td> <td>12</td> <td></td> <td>1456</td> <td>ng6</td> <td>14 Ø HHN</td> <td></td> <td></td> <td>A563</td> <td>Линз</td> <td>107 29</td> <td>(425) A FP:86</td>		12		1456	ng6	14 Ø HHN			A563	Линз	107 29	(425) A FP:86
14     20/ 10gg 1     18 HSB     0     52     1925-3     102     (235)     FP68       15     274 (bc 3     19 HSB     0     52     1925-3     102     (235)     FP68       16     481 ud 3     19 HSB     7486-3     102     (248)     FP68       17     481 nd 3     19 HHN     1853     102     (248)     FP68       19     1     19 HHN     19     19     19     19       20     1     19     19     19     19     19       21     1     1     19     19     19     19       23     1     1     19     19     19     19       24     1     1     19     19     19     19       23     1     1     19     19     19     19       24     1     1     19     19     19     10       24     1     1     19     19     10     10       24     1     1     19     10     10       25     1     1     10     10     10       26     1     1     10     10     10       29     1     1 <td< td=""><td></td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		13										
15     2/4     0x     1 9     HS     U     3/2     F436-3     US/2     7/2(54)     FF86       16     481     u/3     1 9     HS     F436-3     US/2     (449)     FP86       17     481     n/3     1 9     HN     F563     DS/2     (449)     FP86       19     1     1     HN     F563     DB/3     (449)     FP86       20     1     1     1     1     1     1       21     1     1     1     1     1     1       22     1     1     1     1     1     1       23     1     1     1     1     1     1       24     1     1     1     1     1     1       25     1     1     1     1     1     1       26     1     1     1     1     1     1       29     1     1     1     1     1     1		14		207	bgg3	1 Ø HSB	0				1	(192) FP:86
16     401     udd     1 8 HSK     228     (446)     FPE       17     481     nd3     1 8 HSK     7553     Duts10823     (448)     FPE       19     1     1 8 HSK     1 553     Duts10823     (448)     FPE       19     1     1 8 HSK     1 8 HSK     1 8 HSK     1 8 HSK     FPE       19     1     1 8 HSK     1 8 HSK     1 8 HSK     1 8 HSK     FPE       20     1     1 8 HSK       20     1     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		15		274	bkc3	1 ¢ HSB	0	5 <sup>1</sup> 2			1	(256) FP:86
17         461 [n0.3]         1 θ HHN         ΠΔDH3 2/29 (448)         FP:6           19         1		16		481	wd3	1 Ø HSW					28	(448) FP:86
19		17		481	nd3	1 Ø HHN			A263	Донз	10829	(448) FP:86
20	-	18										
21		19										
22		20										
23		21										
24		22										
25		23										
26		24										
27		25										
28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		26										
29		27										
		28										
		29										
	l	30										

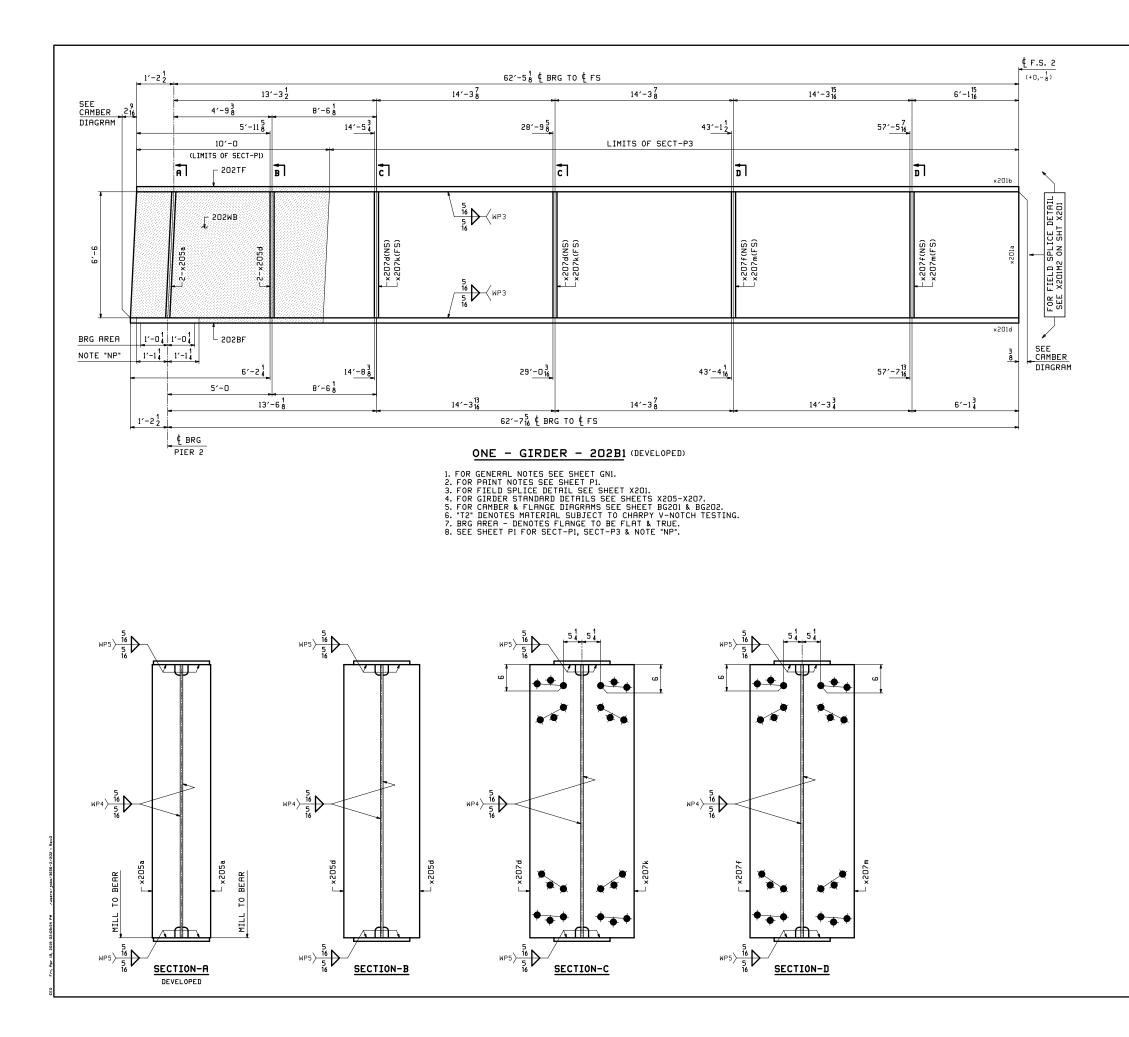
NOTE: FOR GENERAL NOTES SEE SHEET GN1.

$\triangle$	05/15/19				REV'D BOLT	COATING/QTY		C	OPS/WJL
N0.	DATE				REMAR	iks			BY
					REVISIONS				
						NS STI VAUSAU, WI 4P			TENSOR 3656-1
STRUCT	URE _	RAMP P O	VER IR-7	4 WB,	IR-75 & F	RAMP E - UNIT	1		
LOCATIO	N _	CINCINNA	ті, он (н	AMIL1	ГОН СОЦИТ	Y) STA. 230+2	2.98		
PROJECT	T NO	HAM-75-3	1.84, PID	NO. 10	4667, BRI	DGE NO. HAM-7	4-190	85	
ENGINEE	R _	PRIME AE	GROUP						
CONTRA	CTOR _	WALSH GR	ROUP						
ITEM	_				FIELD B	OLTS			
SURFAC	E PREP				OPEN H	OLES			
PAINT	_								
PRELIMIN	NARY		DRAWN	DPS	03/20/19	SHEET NO.	PLANT	ORDER NO.	F.P. NO.
FOR AP	PROVAL		CHECKED	WJL	04/05/19	FB101	3	18060F	9 86

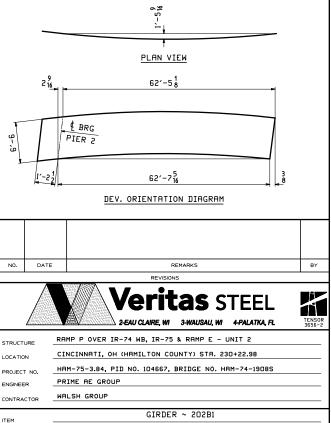


LI	SHIP	NO.	ASS'Y			١	1ATERIA	L	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	201A1	1		GIRDER					13513
2									
э		1	201WB	PL 9/16×78	48	88	A709-50WT2	206 2	FP:20
4		1	201TF	PL 1x16	48	516	A709-50WT2	204 8	FP:20
5		1	201BF	PL 1×16	48	88	A709-50WT2	204 6	FP:20
6									
7		2	×205a	PL 1×8	6	616	A709-50WT2		M1E FP:20
8		1	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20
9		2	×207d	PL 2×142	6	6	A709-50WT2	2087	FP:20
10		1	×207f	PL 2×142	6	6	A709-50WT2	2087	FP:20
11									

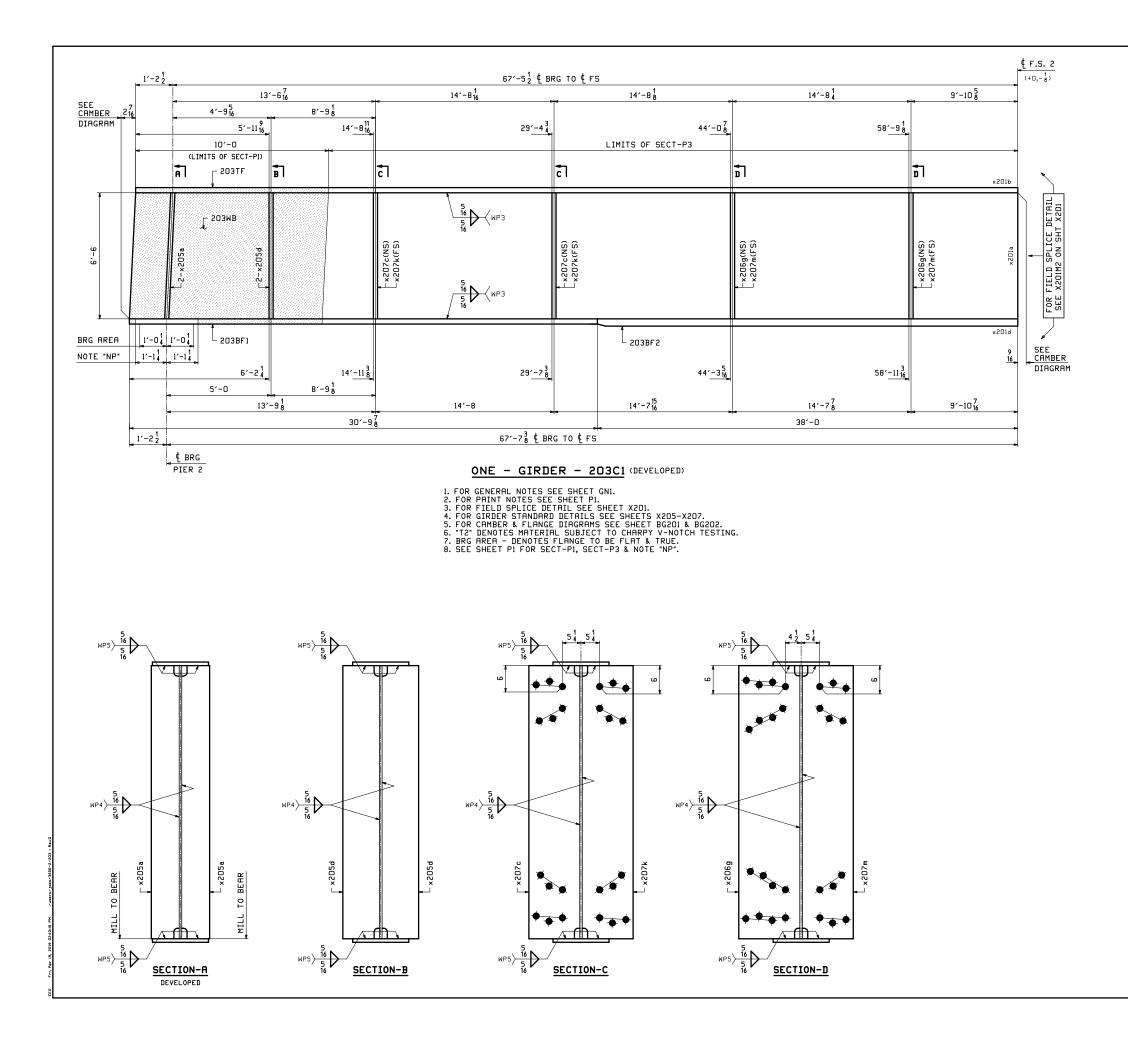




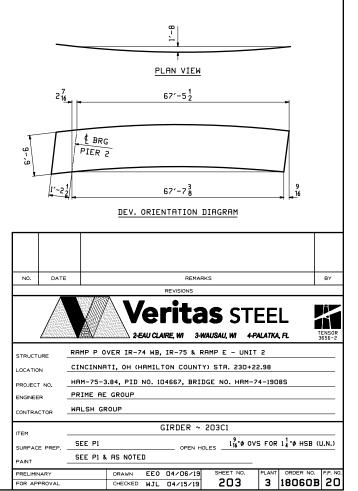
LI	SHIP	NO.	ASS'Y			١	1ATERIA	L	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	202B1	1		GIRDER					18341
2									
э		1	202WB	PL 9/16×78	63	1U 16	A209-50NT2	20530	FP:20
4		1	202TF	PL 1x16	63	18	A709-50NT2	204 2	FP:20
5		1	202BF	PL 1x16	63	9 <sup>13</sup> 9 <sup>16</sup>	A709-50WT2	204 2	FP:20
6									
7		2	×205a	PL 1×8	6	6 <sub>16</sub>	A709-50WT2	208 2 MI	E FP:20
8		2	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20
9		2	×207d	PL 2×142	6	6	A709-50WT2	208 7	FP:20
10		2	x207f	PL 2×142	6	6	A709-50WT2	208 7	FP:20
11		2	x207k	PL 2×142	6	6	A709-50WT2	208 7	FP:20
12		2	×207m	PL 2×142	6	6	A209-50NT2	208 7	FP:20
13									

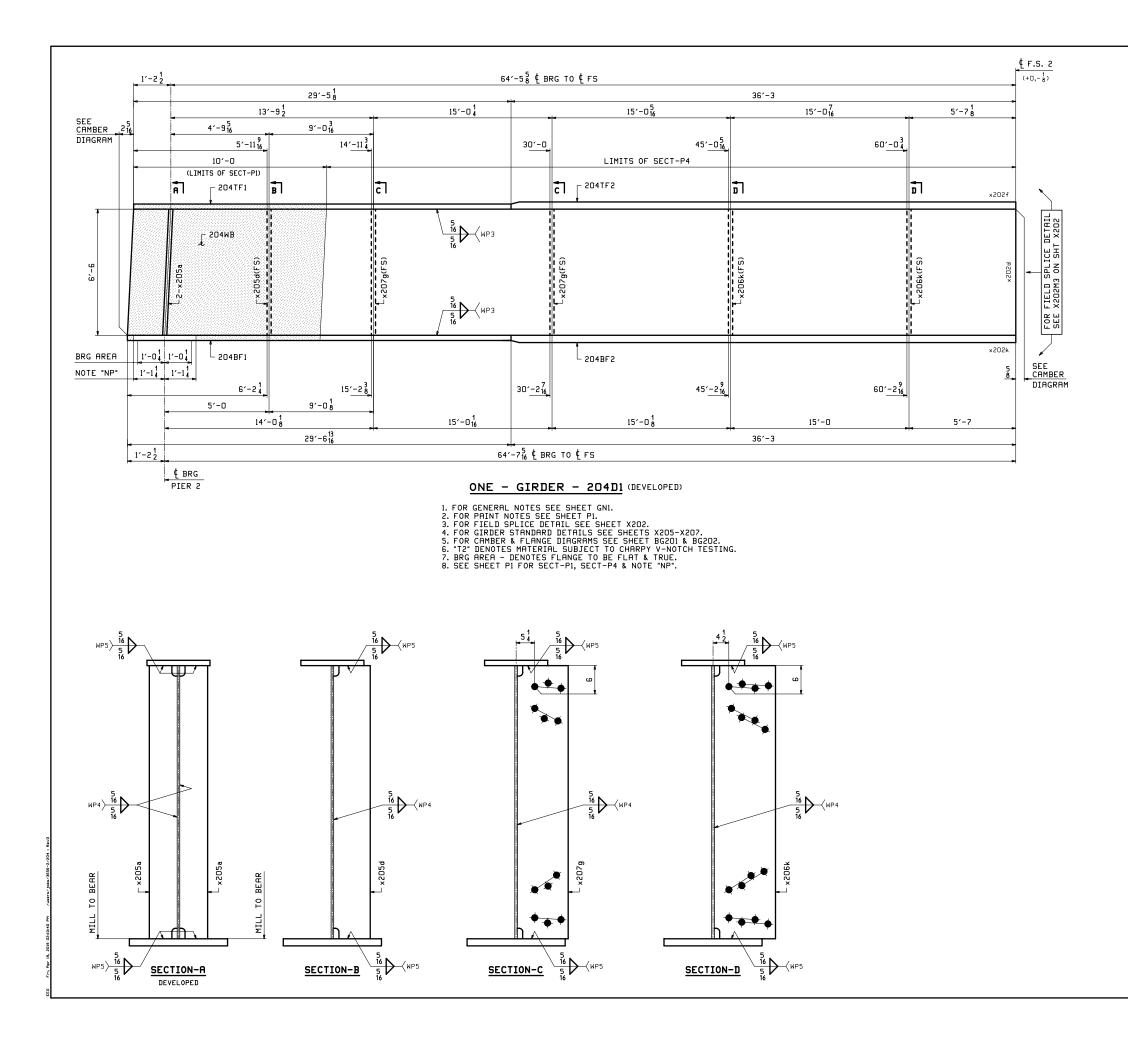


PAINTSEE PI & RS NOTED	
PRELIMINARY DRAWN EE0 04/06/19 SHEET NO. PLANT ORDER N	
FOR APPROVAL CHECKED WJL 04/15/19 202 3 18060	B  20

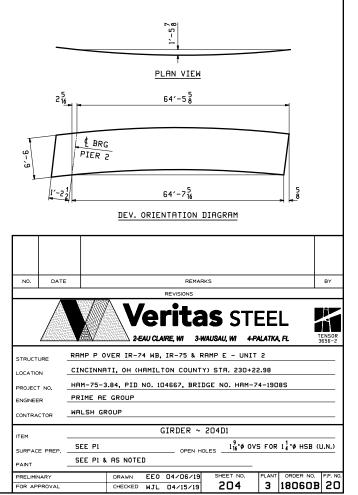


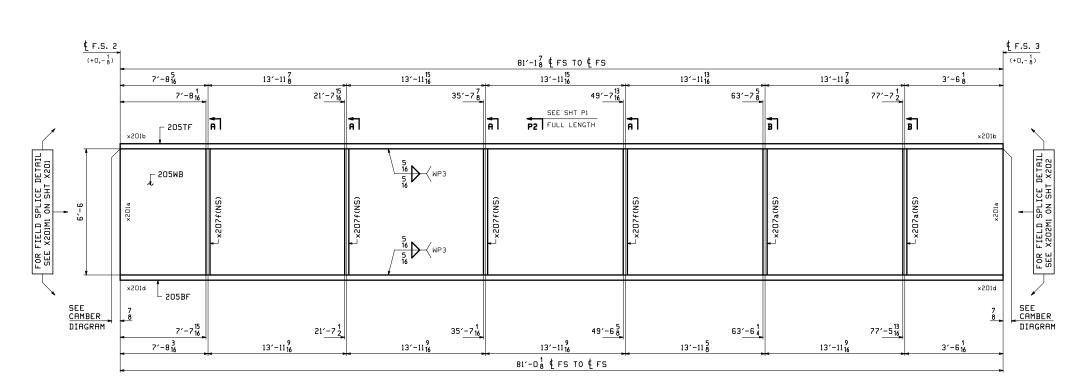
LI	SHIP	NO.	ASS'Y							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	
1	203C1	1		GIRDER					21255	
2										
э		1	203WB	PL 9/16×78	68	10 <sup>7</sup>	A709-50WT2	2054	FP:20	
4		1	203TF	PL 1x16	68	8	A709-50WT2	20332	FP:20	
5		1	203BF1	PL 1x16	30	9 <sup>7</sup> 8	A709-50WT2	204	FP:20	
6		1	203BF2	PL 14×16	38	0	A709-50WT2	202	FP:20	
7										
8		5	×205a	PL 1×8	6	616	A709-50WT2	208 2	MIE FP:20	
9		5	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20	
10		2	×206g	PL 2×172	6	6	A709-50WT2	208 8	FP:20	
11		2	x207c	PL 2×142	6	6	A709-50WT2	208 7	FP:20	
12		2	x207k	PL 2×142	6	6	A709-50WT2	208 7	FP:20	
13		2	x207m	PL 2×142	6	6	A709-50NT2	208 7	FP:20	
14										





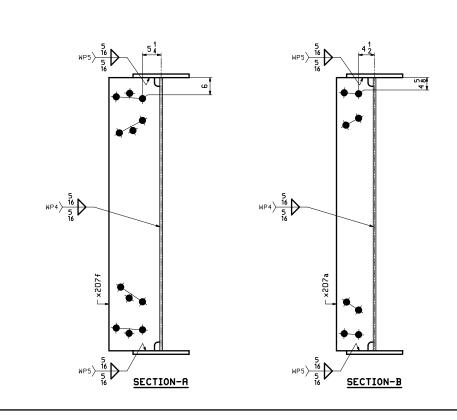
LI	SHIP	NO.	ASS'Y								
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	204D1	1		GIRDER					30693		
2											
з		1	204WB	PL 16×78	65	10 16	A209-20M15	205	FP:20		
4		1	204TF1	PL 18×18	29	58	A709-50WT2	2034	FP:20		
5		1	204TF2	PL 2×18	36	3	A709-50WT2	201 28	FP:20		
6		1	204BF1	PL 18×28	29	6 13 6 16	A709-50WT2	202	FP:20		
7		1	204BF2	PL 22×28	36	3	A709-50WT2	201 6	FP:20		
8											
9		2	×205a	PL 1×8	6	6 <sub>16</sub>	A709-50WT2		41E FP:20		
10		1	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20		
11		2	×206k	PL 2×172	6	6	A709-50WT2	208 8	FP:20		
12		2	×207g	PL 2×142	6	6	A709-50WT2	208 7	FP:20		
13											

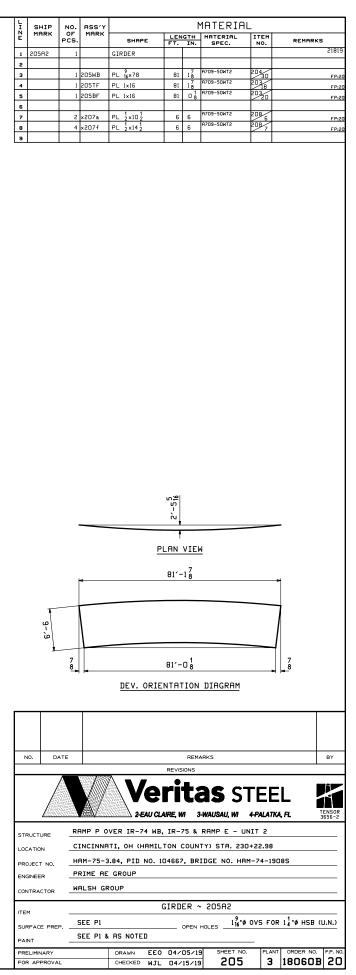


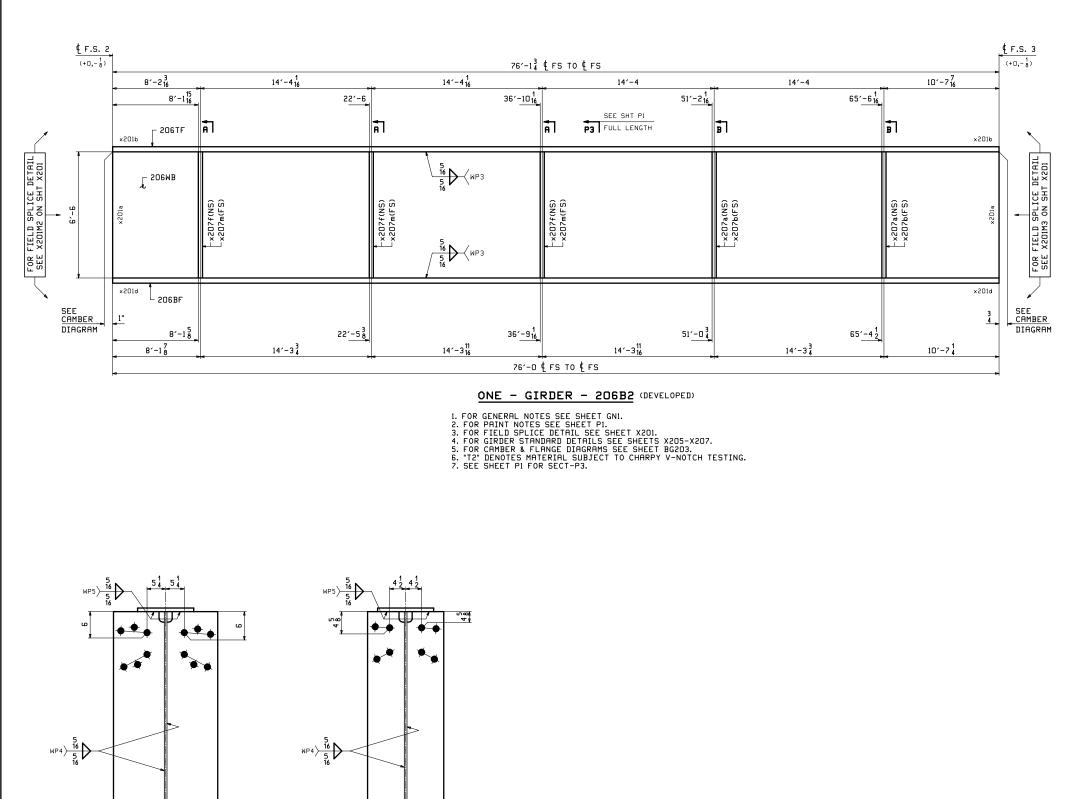


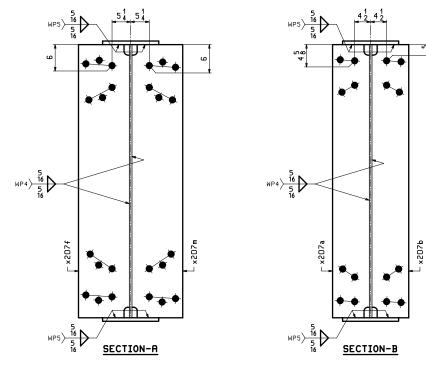
ONE - GIRDER - 205A2 (DEVELOPED)

1. FOR GENERAL NOTES SEE SHEET GNI. 2. FOR PAINT NOTES SEE SHEET PI. 3. FOR FIELD SPLICE DETAIL SEE SHEET X201 & X202. 4. FOR GIRDER STANDARD DETAILS SEE SHEETS X205-X207. 5. FOR CAMBER & FLANGE DIAGRAMS SEE SHEET BG203. 6. "T2" DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING. 7. SEE SHEET PI FOR SECT-P2.

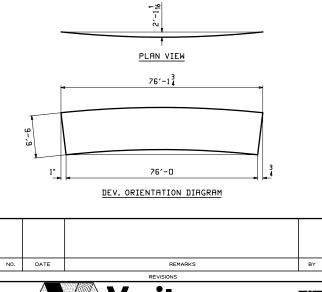




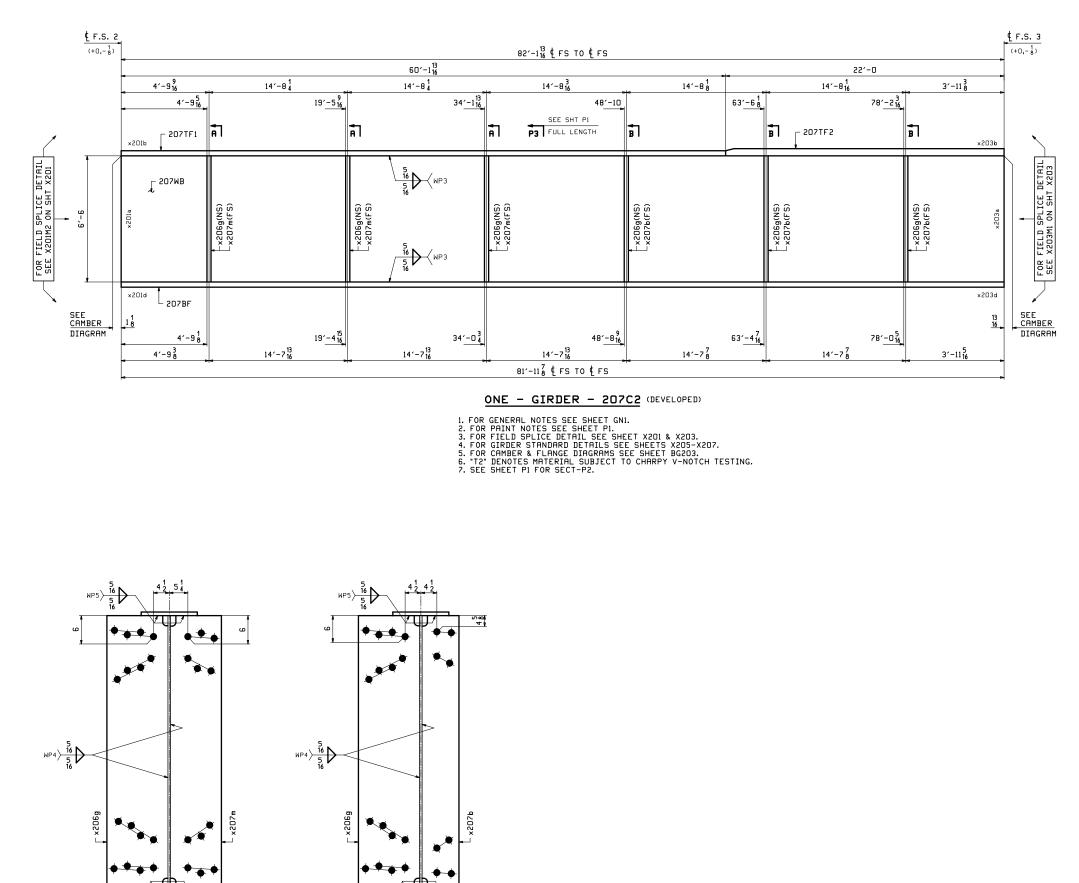




LI	SHIP	NO.	ASS'Y	MATERIAL							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	206B2	1		GIRDER					21078		
2											
з		1	206WB	PL 9/16×78	76	$1\frac{3}{4}$	A709-50WT2	205 4	FP:20		
4		1	206TF	PL 1x16	76	14	A709-50WT2	203	FP:20		
5		1	206BF	PL 1×16	76	0	A709-50WT2	203	FP:20		
6											
7		2	×207a	PL 2×102	6	6	A709-50WT2	2086	FP:20		
8		2	×207b	PL 2×102	6	6	A709-50WT2	2086	FP:20		
9		3	×207f	PL 2×142	6	6	A709-50WT2	2087	FP:20		
10		3	×207m	PL 2×142	6	6	A709-50WT2	2087	FP:20		
11											



					<b>IS</b> S			ENSOR
Vinterview	Need.	<u>((()))</u> 2-E	AU CLA	VIRE, WI 3-1	NAUSAU, WI	4-PALATKA		656-2
STRUCTURE	RAMP P 0	VER IR-7	4 WB,	IR-75 & F	RAMP E - U	INIT 2		
LOCATION	CINCINNA	ті, он (н	AMIL.	TON COUNT	Y) STA. 23	0+22.98		
PROJECT NO.	HAM-75-3	1.84, PID	NO. 10	04667, BRI	DGE NO. HA	M-74-190	8S	
ENGINEER	PRIME AE	GROUP						
CONTRACTOR	WALSH GR	OUP						
			(	SIRDER ~	206B2			
ITEM	SEE P1			OPEN H	01 ES 1 <sup>9</sup> 16"⊄	OVS FOR	14"¢ HSB (1	J.N.)
PAINT	SEE P1 &	AS NOTE	D	JPEN H		_		
PRELIMINARY		DRAWN	EEO	04/06/19	SHEET NO	. PLANT	ORDER NO.	F.P. NO.
FOR APPROVAL		CHECKED	WJL	04/15/19	206	3	18060B	20



jer 19, 2019 O2112:55 PY

WP5  $\rightarrow \frac{16}{16}$ 

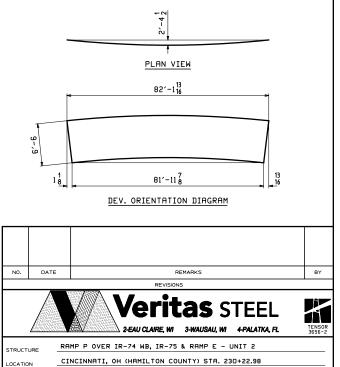
SECTION-A

\_\_\_\_\_

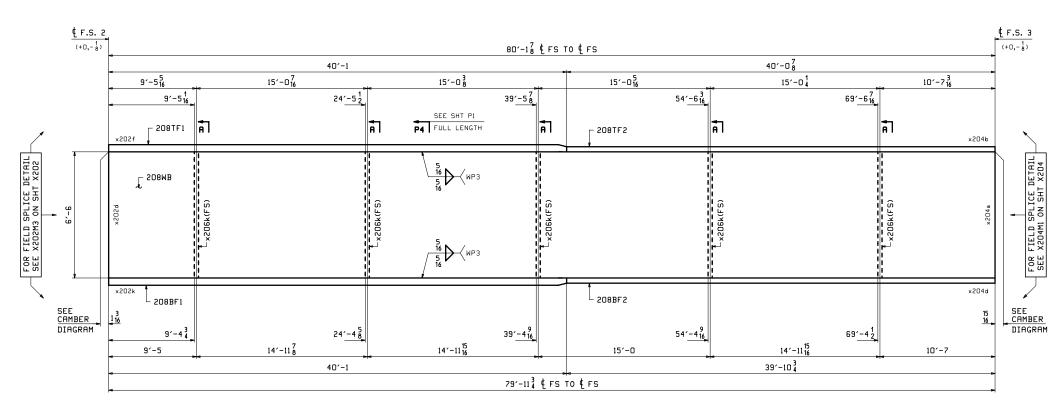
wp5)-

<u>SECTION-B</u>

LI	SHIP	NO.	ASS'Y	MATERIAL							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	207C2	1		GIRDER					27438		
2											
з		1	207WB	PL 9/16×78	82	1 <sup>13</sup> 1 <sub>16</sub>	A709-50WT2	204	FP:20		
4		1	207TF1	PL 1×16	60	116	H709-50W12	209 4	FP:20		
5		1	207TF2	PL 14×16	22	U	A709-50WT2	202	FP:20		
6		1	207BF	PL 14×16	81	11 8	A709-50WT2	202	FP:20		
7											
8		6	×206g	PL 2×172	6	6	A709-50WT2	208	FP:20		
9		3	×207b	PL 2×102	6	6	A709-50WT2	2086	FP:20		
10		3	x207m	PL 2×142	6	6	A709-50WT2	2087	FP:20		
11											

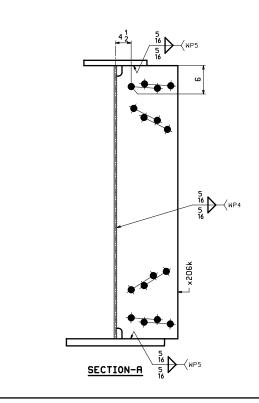


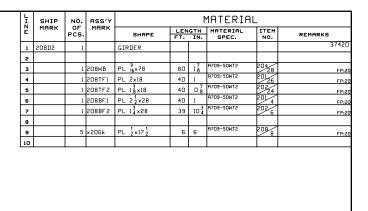
LOCATION									
PROJECT NO.	HAM-75-3	.84, PID	NO. 10	04667, BRI	DGE	NO. HAM-7	4-190	85	
ENGINEER	PRIME AE	GROUP							
CONTRACTOR	WALSH GR	ROUP							
ITEM			G	GIRDER ~	207	C2			
SURFACE PREP.	SEE P1			OPEN H	OLES	1 <mark>9</mark> "¢ OV	5 FOR	14"Ø HSB (1	J.N.)
PAINT	SEE P1 &	AS NOTE	D						
PRELIMINARY		DRAWN	EEO	04/06/19	S	HEET NO.	PLANT		F.P. NO.
FOR APPROVAL		CHECKED	WJL	04/15/19		207	3	18060B	20

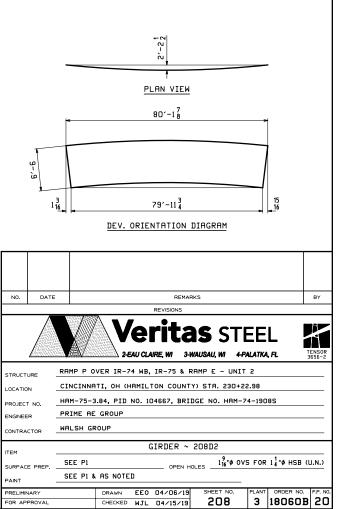


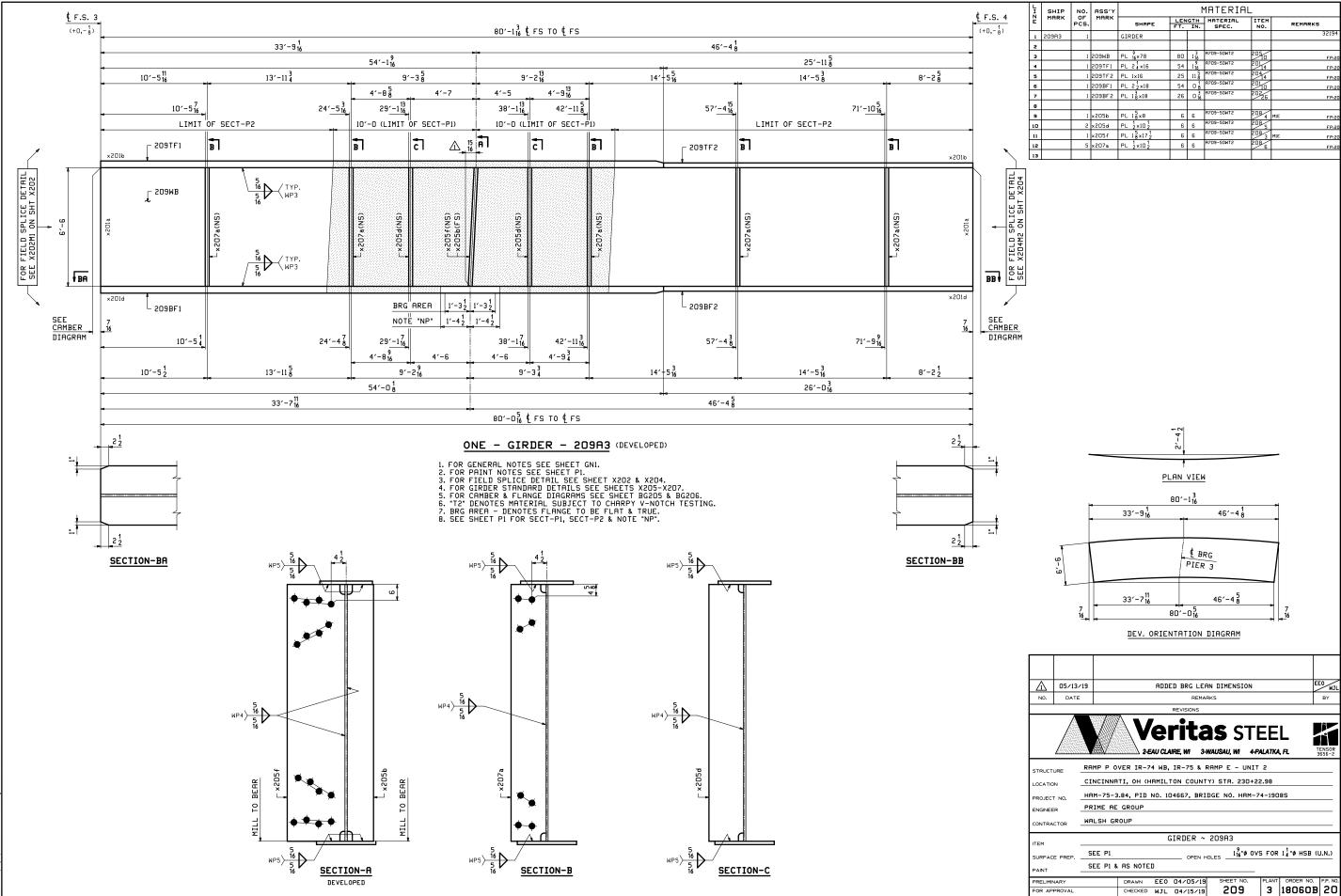
## ONE - GIRDER - 208D2 (DEVELOPED)

1. FOR GENERAL NOTES SEE SHEET GNI. 2. FOR PAINT NOTES SEE SHEET PI. 3. FOR FIELD SPLICE DETAIL SEE SHEET X2D3 & X2D4. 4. FOR GIRDER STANDARD DETAILS SEE SHEETS X2D5-X2D7. 5. FOR CAMBER & FLANGE DIAGRAMS SEE SHEET BG2D3. 6. "T2" DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING. 7. SEE SHEET PI FOR SECT-P3.

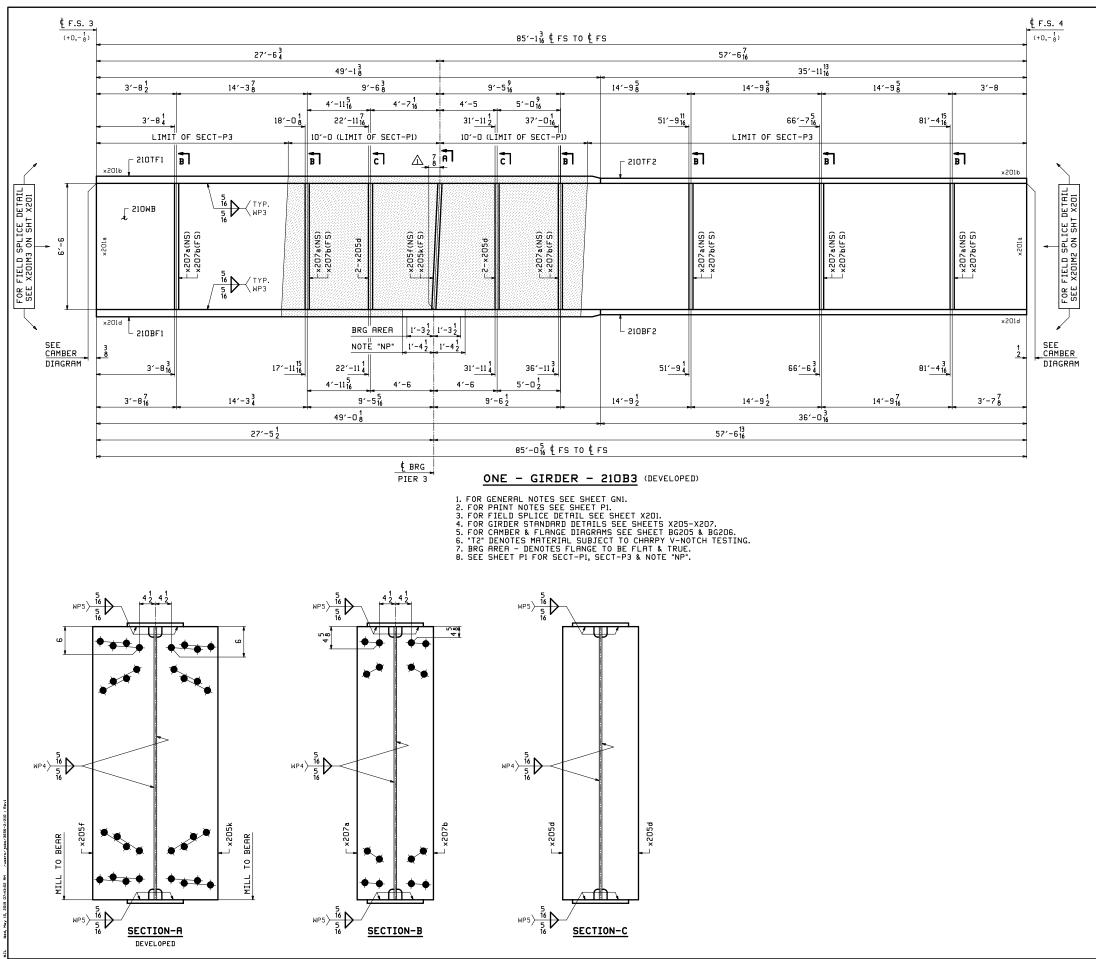




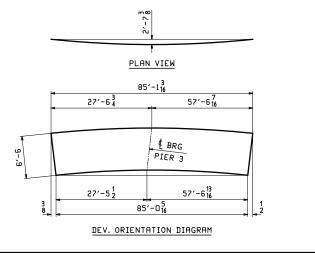




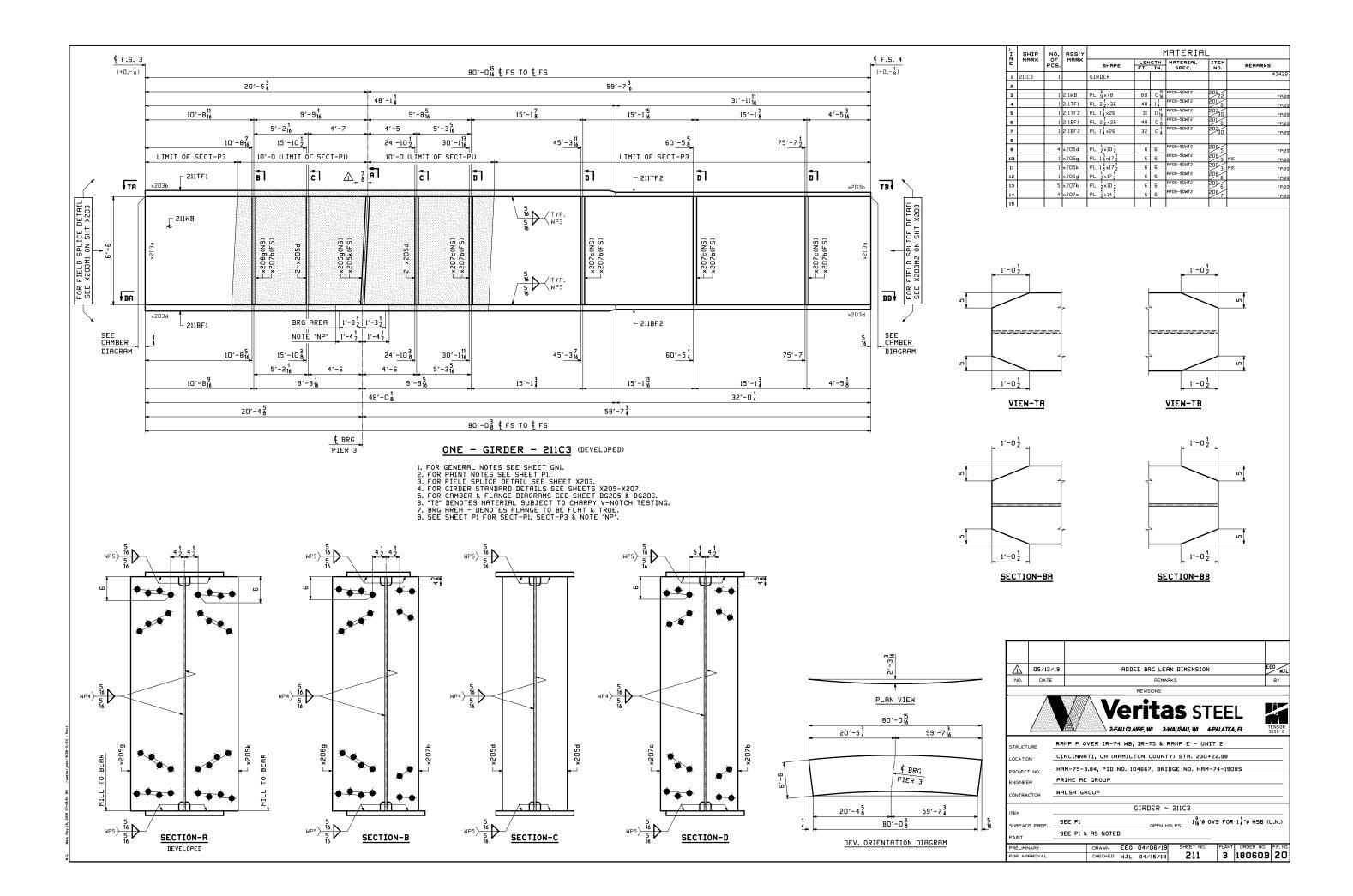
LI	SHIP	NO.	ASS'Y	MATERIAL							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	209A3	1		GIRDER					32194		
2											
э		1	209WB	PL 9/16×78	80	1 <sup>3</sup> 1 <sub>16</sub>	A209-50WT2	205	FP:20		
4		1	209TF1	PL 24×16	54	116	A709-50WT2	2014	FP:20		
5		1	209TF2	PL 1x16	25	11.8	A709-50WT2	204	FP:20		
6		1	209BF1	PL 22×18	54	U 8	A709-50WT2	2010	FP:20		
7		1	209BF 2	PL 18×18	26	0 16	A709-50WT2	202	FP:20		
8											
9		1	×205b	PL 18×8	6	6	A709-50WT2		MIE FP:20		
10		2	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20		
11		1	×205f	PL 18×172	6	6	A709-50WT2		MIE FP:20		
12		5	x207a	PL 2×102	6	6	A209-50WT2	208 6	FP:20		
13											

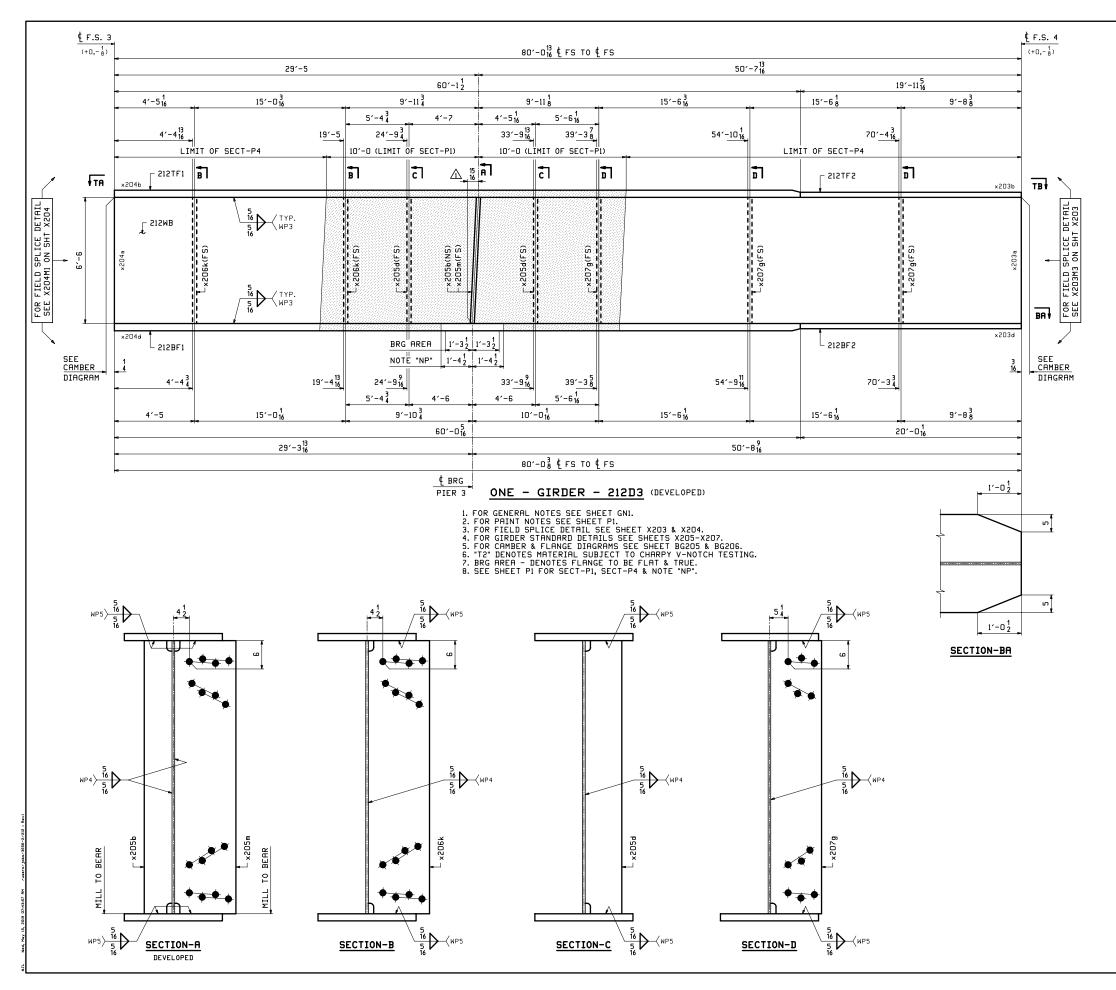


LI	SHIP	NO.	ASS'Y							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	
1	210B3	1		GIRDER					30759	
2										
э		1	210WB	PL 16×78	85	1 <sup>3</sup> <sub>16</sub>	A709-50WT2	205 6	FP:20	
4		1	210TF1	PL 2×16	49	18	A709-50WT2	201	FP:20	
5		1	210TF 2	PL 1x16	35	11 16	A709-50WT2	204	FP:20	
6		1	210BF1	PL 2 8×16	49	U 8	A709-50WT2	20120	FP:20	
7		1	210BF 2	PL 1×16	36	0 16	A709-50WT2	204	FP:20	
8										
9		4	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20	
10		1	×205f	PL 18×172	6	6	A709-50WT2		MIE FP:20	
11		1	×205k	PL 18×172	6	6	A709-50WT2		MIE FP:20	
12		6	x207a	PL 2×102	6	ь	A709-50WT2	208 6	FP:20	
13		6	x207b	PL 2×102	6	6	A709-50NT2	208 6	FP:20	
14										

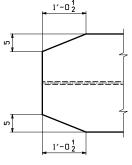


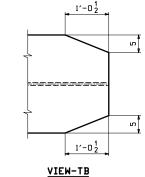
										E0 /
<u>/ı\</u>	05/13/19			HDDF	ED BRG LEF	IN DIM	ENSION			WJL
N0.	DATE				REMA	RKS				BY
					REVISIONS					
			A Contraction		rita MRE, MM 34					TENSOR 3656-2
STRUCT		MP P O	VER IR-7	4 WB,	IR-75 & F	RAMP 6	E - UNIT	2		
LOCATIC	N _CI	NCINNA	ті, он (н	AMIL	ГОН СОЦИТ	Y) ST	A. 230+22	2.98		
PROJEC	NO	M-75-3	.84, PID	NO. 10	4667, BRI	DGE N	0. HAM-7	4-190	85	
ENGINEE		IME AE	GROUP							
CONTRA	CTOR MA	LSH GR	OUP							
ITEM				(	GIRDER ~	210B	3			
SURFAC	E PREP. S	EE P1			OPEN H	OLES _	1 <sub>16</sub> "¢ OVS	S FOR	14"Ø HSB (	U.N.)
PAINT	S	EE P1 &	AS NOTE	D						
PRELIMI	IARY		DRAWN	EEO	04/06/19	SHE	ET NO.	PLANT	ORDER NO.	F.P. NO.
FOR AP	PROVAL		CHECKED	WJL	04/15/19	2	210	3	18060E	20



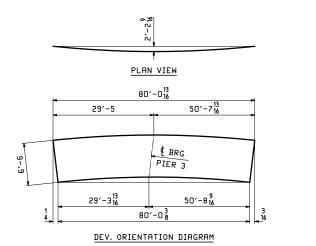


LI	SHIP	NO.	ASS'Y	MATERIAL							
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	212D3	1		GIRDER					49965		
2											
э		1	212WB	PL 16×78	80	0 16	A209-50WT2	20522	FP:20		
4		1	212TF1	PL 22×28	60	12	A709-50WT2	201 2	FP:20		
5		1	212TF2	PL 18×28	19	1116	A709-50WT2	202 2	FP:20		
6		1	212BF1	PL 22×28	60	U 16	A709-50WT2	201 2	FP:20		
7		1	212BF2	PL 2×28	20	016	A709-50WT2	201 22	FP:20		
8											
9		1	×205b	PL 18×8	6	6	A709-50WT2		M1E FP:20		
10		2	x205d	PL 2×102	6	6	A709-50WT2	2085	FP:20		
11		1	×205m	PL 18×172	6	6	A709-50WT2		M1E FP:20		
12		2	×206k	PL 2×172	6	6	A209-50WT2	208 8	FP:20		
13		3	×207g	PL 2×142	6	6	A209-50WT2	2087	FP:20		
14											



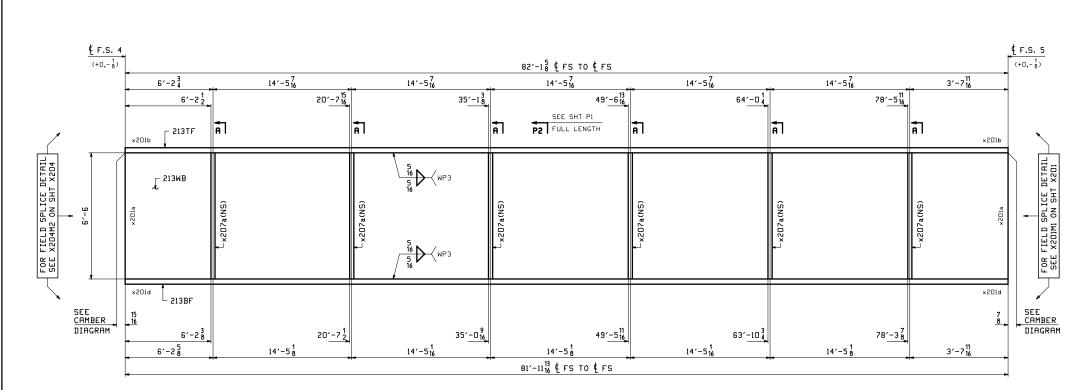


VIEW-TA



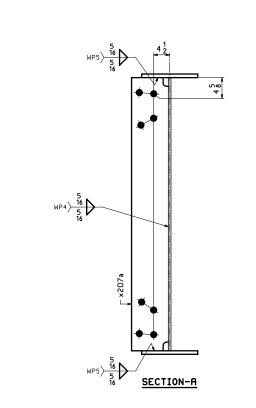
EEO WJL BY 05/13/19 ADDED BRG LEAN DIMENSION DATE REMARKS NO. Veritas STEEL 2-EAU CLAIRE, WI 3-WAUSAU, WI 4-PALATKA, FL TENSOR 3656-2 RAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT 2 TRUCTURE CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98 LOCATION HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-19085 RO FCT NO PRIME AE GROUP INGINEER WALSH GROUP ONTRACTOR GIRDER ~ 212D3 ITEM OPEN HOLES \_\_\_\_\_\_\_ 16" Ø OVS FOR 14 "Ø HSB (U.N.) SEE P1 SURFACE PREP SEE P1 & AS NOTED PAINT PRELIMINARY FOR APPROVAL DRAWN EEO 04/06/19 
 SHEET NO.
 PLANT
 ORDER NO.
 F.P. NO.

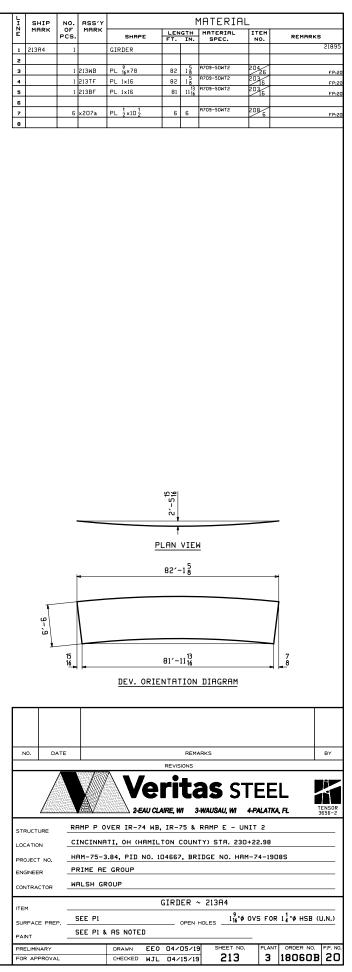
 212
 3
 18060B
 20
 CHECKED WJL 04/15/19

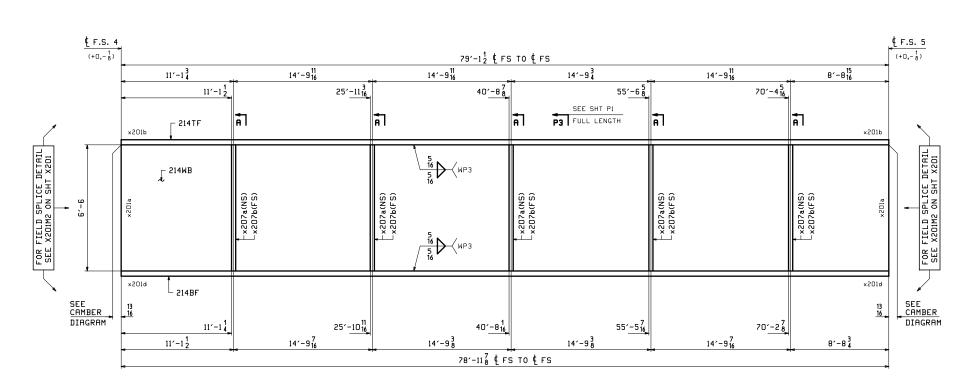


## ONE - GIRDER - 213R4 (DEVELOPED)

1. FOR GENERAL NOTES SEE SHEET GNI. 2. FOR PAINT NOTES SEE SHEET PI. 3. FOR FIELD SPLICE DETAIL SEE SHEET X201 & X204. 4. FOR GIRDER STANDARD DETAILS SEE SHEETS X205-X207. 5. FOR CAMBER & FLANGE DIAGRAMS SEE SHEET BG206 & BG207. 6. "T2" DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING. 7. SEE SHEET PI FOR SECT-P2.

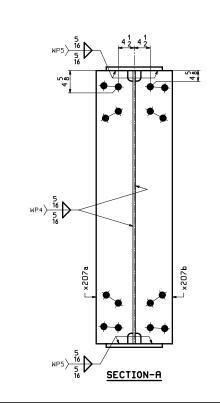


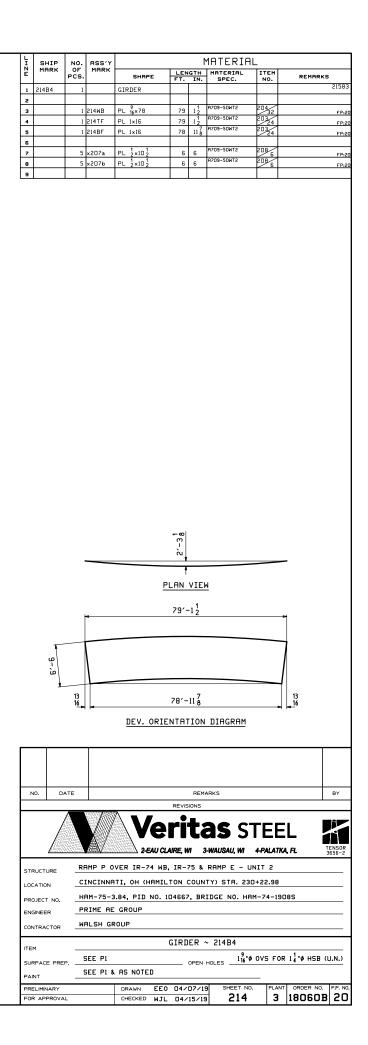


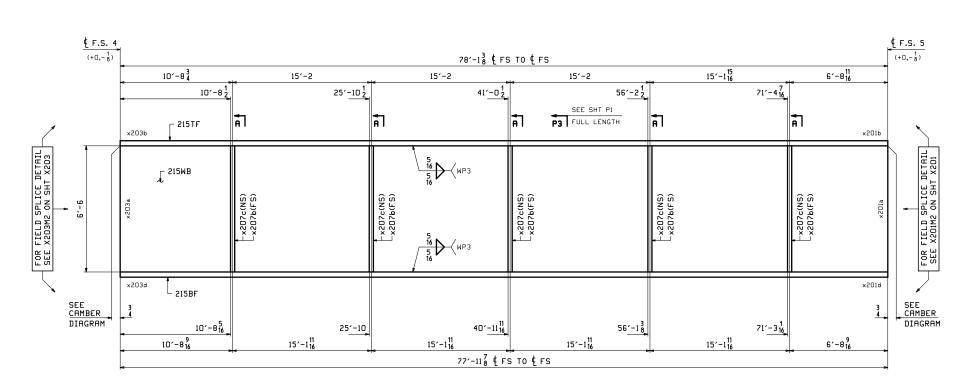


### ONE - GIRDER - 214B4 (DEVELOPED)

- 1. FOR GENERAL NOTES SEE SHEET GNI. 2. FOR PAINT NOTES SEE SHEET PI. 3. FOR FIELD SPLICE DETAIL SEE SHEET X201. 4. FOR GIRDER STANDARD DETAILS SEE SHEET X205-X207. 5. FOR CAMBER & FLANGE DIACRAMS SEE SHEET BG206 & BG207. 6. "T2" DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING. 7. SEE SHEET PI FOR SECT-P3.

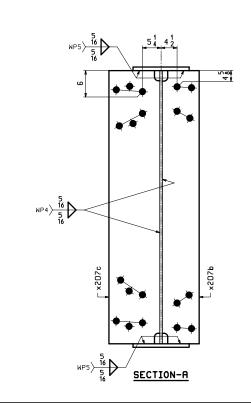


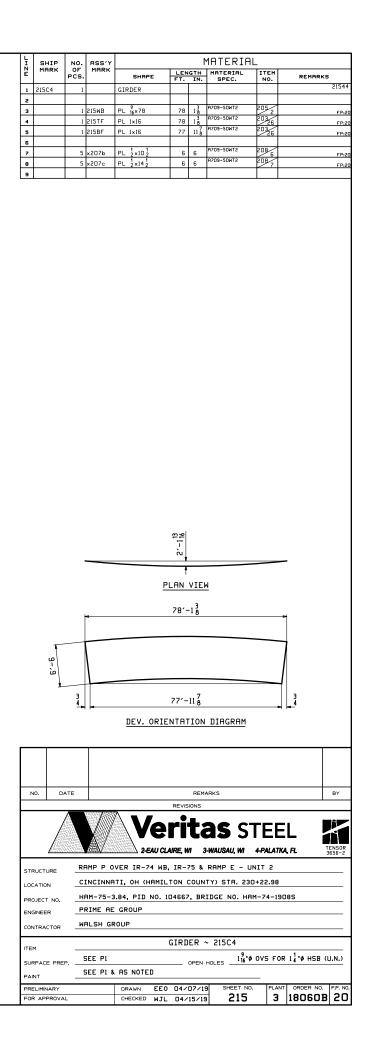


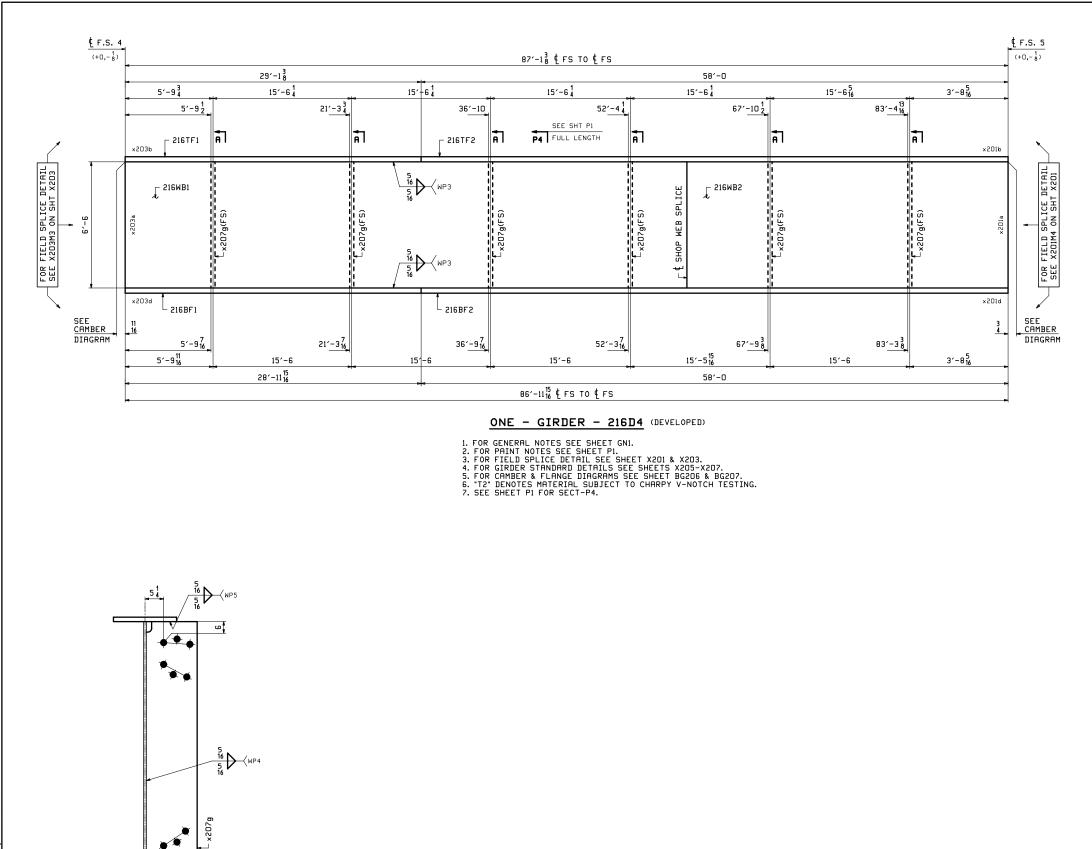


### ONE - GIRDER - 215C4 (DEVELOPED)

1. FOR GENERAL NOTES SEE SHEET GNI. 2. FOR PAINT NOTES SEE SHEET PI. 3. FOR FIELD SPLICE DETAIL SEE SHEET X201 & X203. 4. FOR GIRDER STANDARD DETAILS SEE SHEETS X205-X207. 5. FOR CAMBER & FLANGE DIACRAMS SEE SHEET BG206 & BG207. 6. "T2" DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING. 7. SEE SHEET PI FOR SECT-P3.



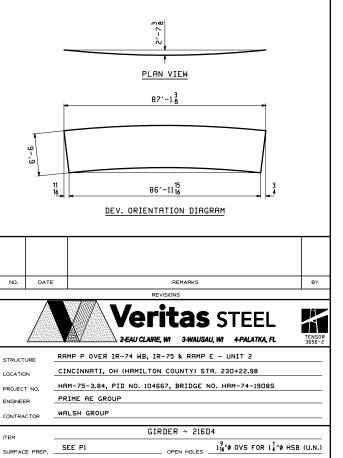




SECTION-R

+++

LI	SHIP	NO.	ASS'Y								
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1	216D4	1		GIRDER					28630		
2											
э		1	216WB1	PL 16×78	58	016	A709-50WT2	20532	FP:20		
4		1	216WB2	PL 16×78	29	U 16	A709-50WT2	206 4	FP:20		
5		1	216 T F 1	PL 14×18	29	18	A709-50WT2	2032	FP:20		
6		1	216 T F 2	PL 14×18	58	0	A709-50WT2	20232	FP:20		
7		1	216BF1	PL 12×18	28	11 15	A709-50WT2	2020	FP:20		
8		1	216BF2	PL 12×18	58	0	A709-50WT2	202	FP:20		
9											
10		6	x207g	PL 2×142	6	6	A709-50WT2	2087	FP:20		
11											
				· - 2····2		-		ľ í			



SEE P1 & AS NOTED

 DRAWN
 EEO
 04/07/19

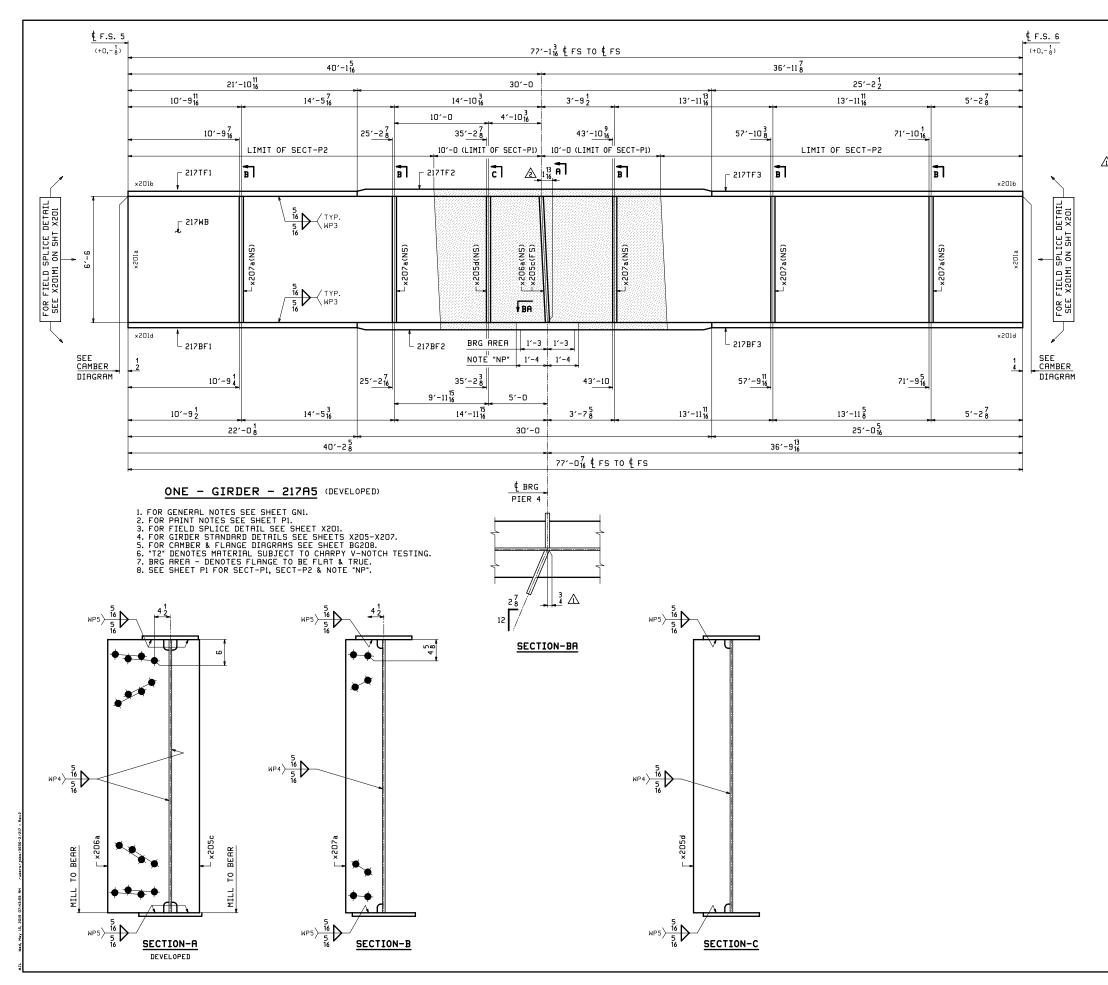
 CHECKED
 WJL
 04/15/19

 SHEET NO.
 PLANT
 ORDER NO.
 F.P. NO.

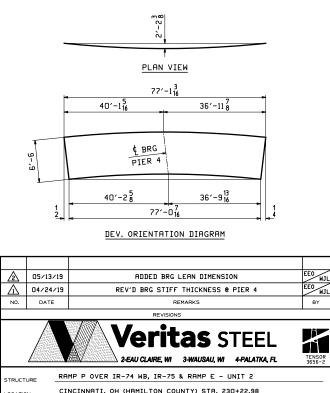
 216
 3
 18060B
 20

PAINT

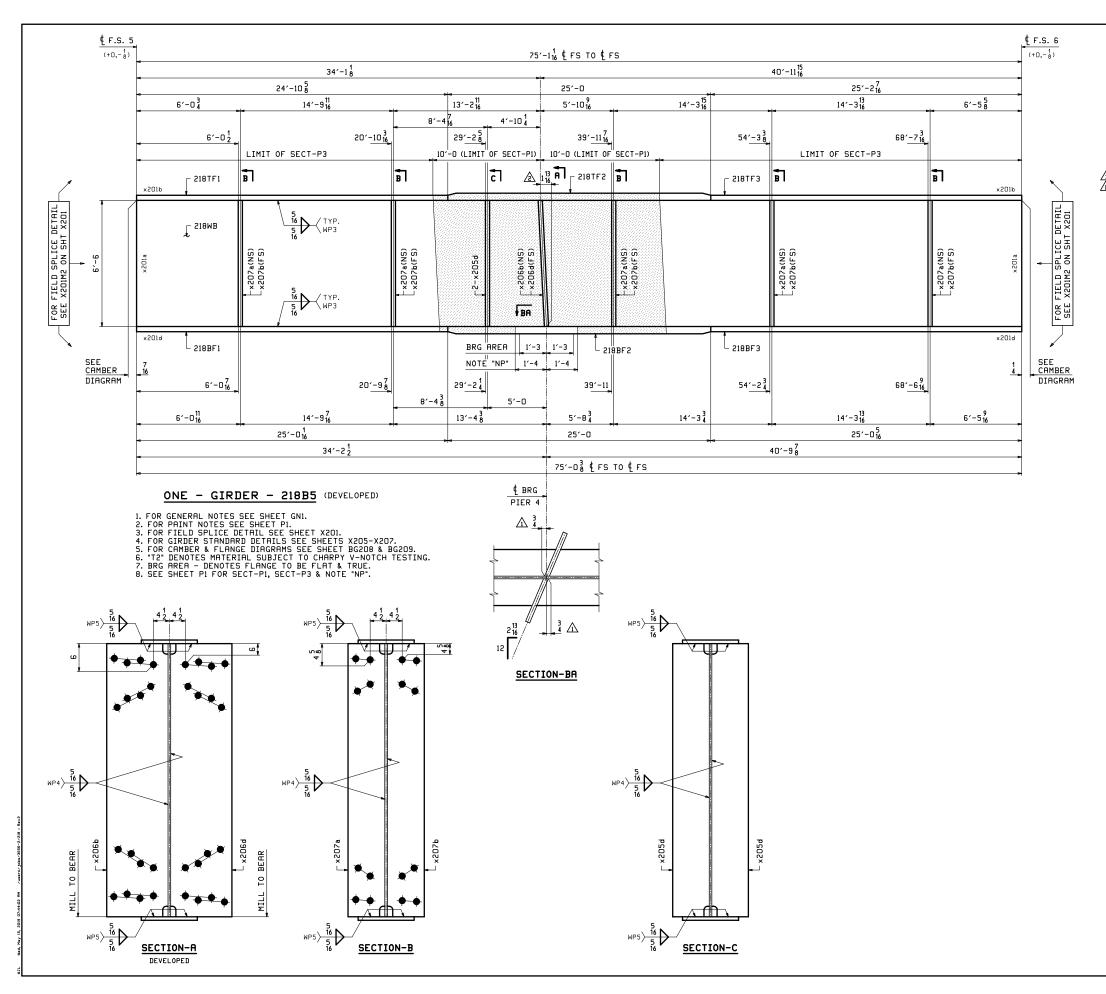
PRELIMINARY FOR APPROVAL



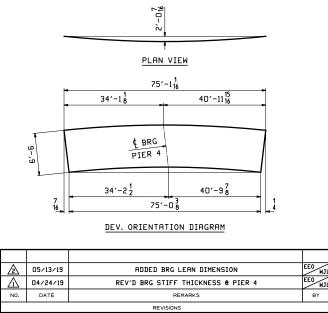
	-									
	LI	SHIP	NO.	ASS'Y			١	1ATERIA	L	
	E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
	1	217A5	1		GIRDER					23763
	2									
	з		1	217WB	PL 9/16×78	77	1 <sup>3</sup> 1 <sub>16</sub>	A709-50WT2	205	FP:20
	4		1	217TF1	PL 1×16	21	10 16	A709-50WT2	204	FP:20
	5		1	217TF2	PL 12×16	30	0	A709-50WT2	20222	FP:20
	6		1	217TF3	PL 1×16	25	22	A709-50WT2	204	FP:20
	7		1	217BF1	PL 1×16	22	08	A709-50WT2	204	FP:20
	8		1	217BF2	PL 18×16	30	0	A709-50WT2	2024	FP:20
	9		1	217BF3	PL 1×16	25	0 16	A709-50WT2	204	FP:20
	10									
$\wedge$	11		1	×205c	PL 18×8	6	6	A709-50NT2	208 4	11E FP:20
_	12		1	×205d	PL 2×102	6	6	A709-50NT2	208 5	FP:20
	13		1	×206a	PL 18×172	6	6 <sup>1</sup> 6 8	A709-50NT2	208 M	11E FP:20
	14		5	x207a	PL 2×102	6	6	A709-50NT2	208 6	FP:20
	15									



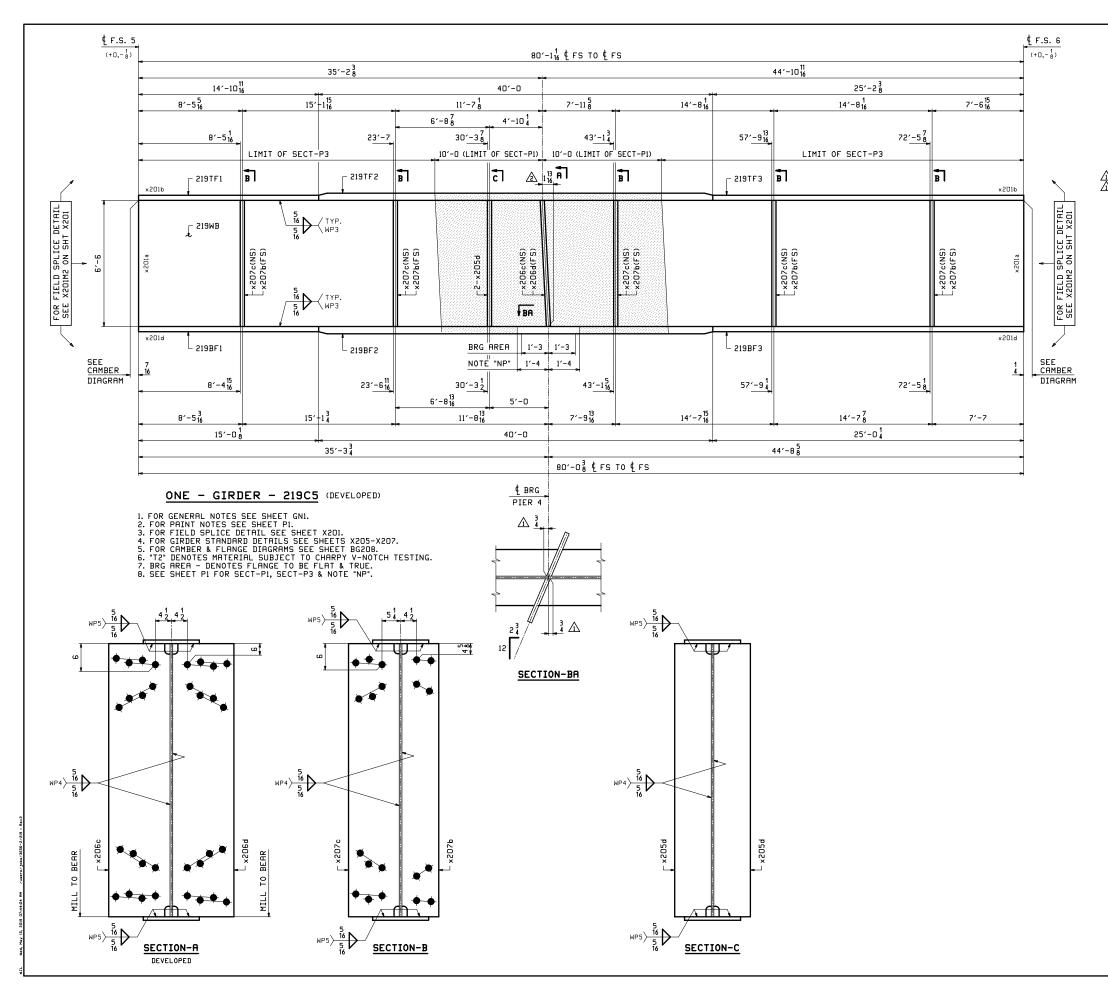
LOCATION	CINCINNA	ті, он (н	AMIL	TON COUNT	Y) 5	TA. 230+2	2.98			
PROJECT NO.	HAM-75-3	1.84, PID	NO. 10	04667, BRI	DGE	NO. HAM-7	4-190	8S		
ENGINEER PRIME AE GROUP										
CONTRACTOR	WALSH GR									
ITEM	GIRDER ~ 217A5									
SURFACE PREP.	SEE P1			OPEN H	OLES	116"Ø OV	S FOR	14"Ø HSB (1	J.N.)	
PAINT	SEE P1 & AS NOTED									
PRELIMINARY		DRAWN	EEO	04/05/19	S	HEET NO.	PLANT	ORDER NO.	F.P. NO.	
FOR APPROVAL		CHECKED		04/15/19		217	3	18060B		
TON ALL NOTAL		CHECKED	MJL	04/13/13				100000		



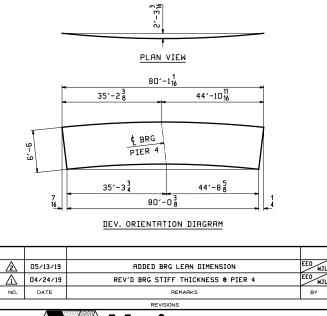
	LI	SHIP	NO.	ASS'Y	MATERIAL							
	Ε	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
	1	218B5	1		GIRDER					23058		
	2											
	э		1	218WB	PL 16×78	75	1 16	A209-50WT2	20528	FP:20		
	4		1	218TF1	PL 1x16	24		H709-50W12	204	FP:20		
	5		1	218TF2	PL 18×16	25	U	A709-50WT2	2036	FP:20		
	6		1	218TF3	PL 1×16	25	216	A709-50WT2	204	FP:20		
	7		1	218BF1	PL 1×16	25	U 16	A709-50WT2	204	FP:20		
	8		1	218BF2	PL 18×16	25	U	A709-50WT2	202	FP:20		
	9		1	218BF 3	PL 1×16	25	0 <mark>5</mark> 0 16	A709-50WT2	204	FP:20		
	10											
	11		2	×205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20		
$\mathbb{A}$	12		1	×206b	PL 18×172	6	68	A209-50WT2		M1E FP:20		
$\mathbb{A}$	13		1	x206d	PL 18×172	6	68	A209-50WT2		M1E FP:20		
	14		5	x207a	PL 2×102	6	ь	A209-50WT2	2086	FP:20		
	15		5	х207ь	PL 2×102	6	6	A709-50WT2	2086	FP:20		
	16											



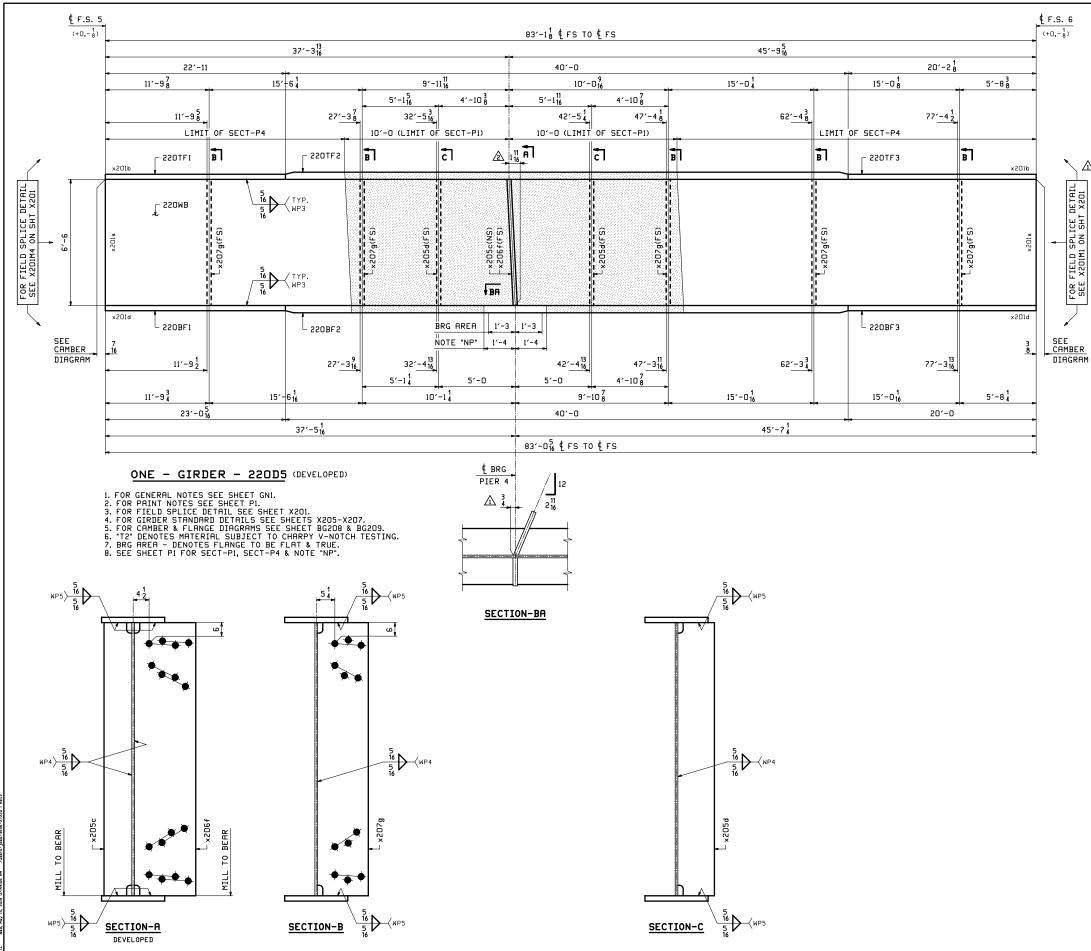
Veritas STEEL									
STRUCTURE	RAMP P 0	VER IR-7	4 WB,	IR-75 & F	RAMP E - U	INIT 2			
LOCATION									
PROJECT NO.	HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S PRIME AE GROUP								
ENGINEER									
CONTRACTOR									
ITEM		218B5	885						
SURFACE PREP.	SEE P1	OPEN HOLES 116"\$ OVS FOR 14"\$ HSB							
PAINT	SEE PI & AS NOTED								
PRELIMINARY		DRAWN	EE0	04/07/19				F.P. NO.	
FOR APPROVAL		CHECKED	WĴL	04/15/19	218	3	180603	50	



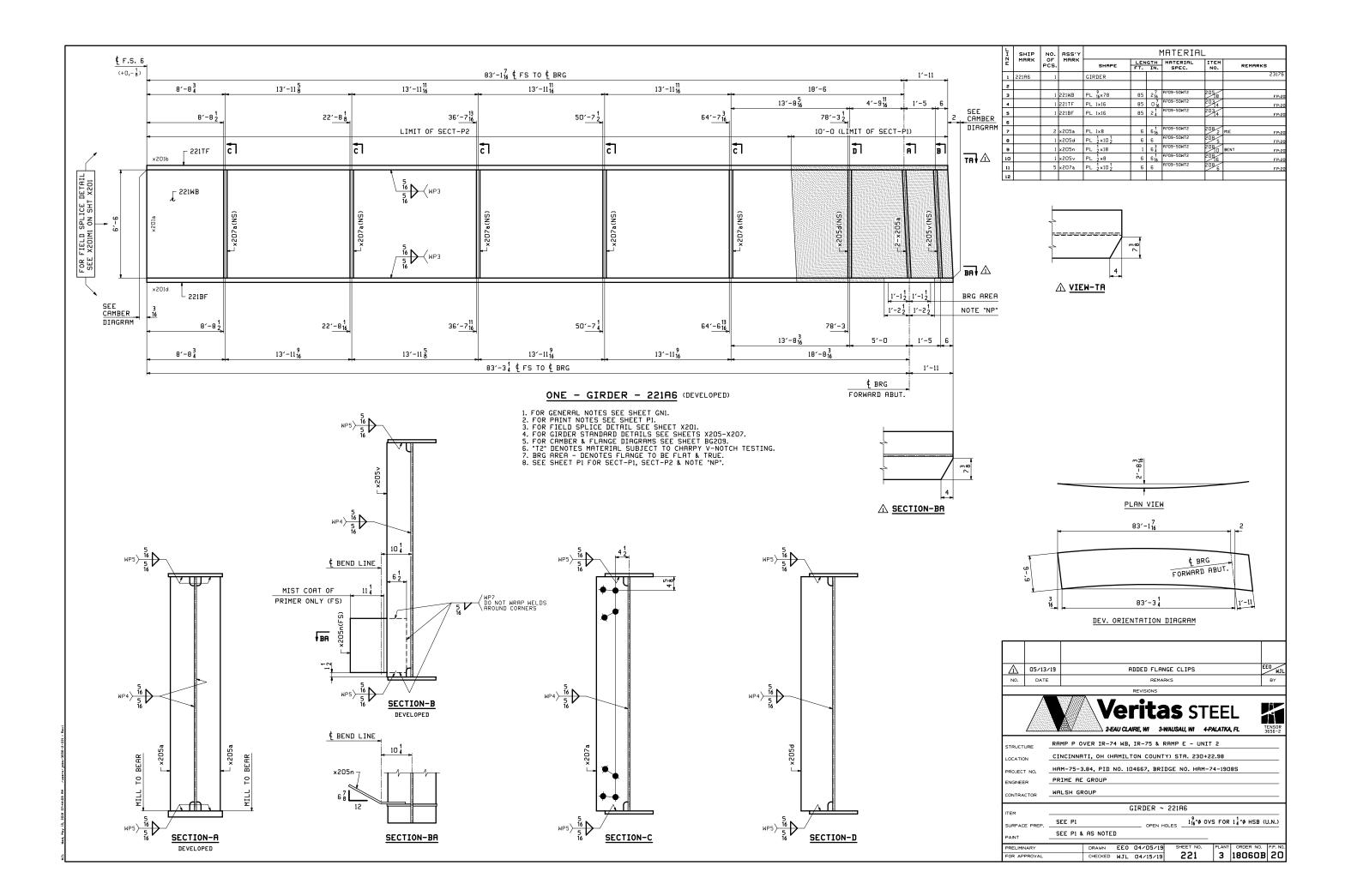
	LIN	SHIP	NO.	ASS'Y			١	1ATERIA	L	
	E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
	1	219C5	1		GIRDER					29538
	2									
	э		1	219WB	PL 16×78	80	1 1 1 16	A209-50WT2	205	FP:20
	4		1	219TF1	PL 1x16	14	1016	A709-50WT2	204	FP:20
	5		1	219TF2	PL 24×16	40	U	A709-50WT2	201	FP:20
	6		1	219TF3	PL 1×16	25	28	A709-50WT2	204	FP:20
	7		1	219BF1	PL 1×16	15	U 8	A709-50WT2	204	FP:20
	8		1	219BF2	PL 22×16	40	0	A709-50WT2	201	FP:20
	9		1	219BF 3	PL 1×16	25	04	A709-50WT2	204	FP:20
	10									
	11		2	x205d	PL 2×102	6	6	A709-50WT2	208 5	FP:20
$\Delta$	12		1	x206c	PL 18×172	6	68	A209-50WT2	208	M1E FP:20
$\hat{\Delta}$	13		1	x206d	PL 18×172	6	6 <sup>1</sup> 8	A709-50WT2	208	M1E FP:20
	14		5	×207b	PL 2×102	6	6	A709-50WT2	2086	FP:20
	15		5	x207c	PL 2×142	6	6	A709-50WT2	2087	FP:20
	16									

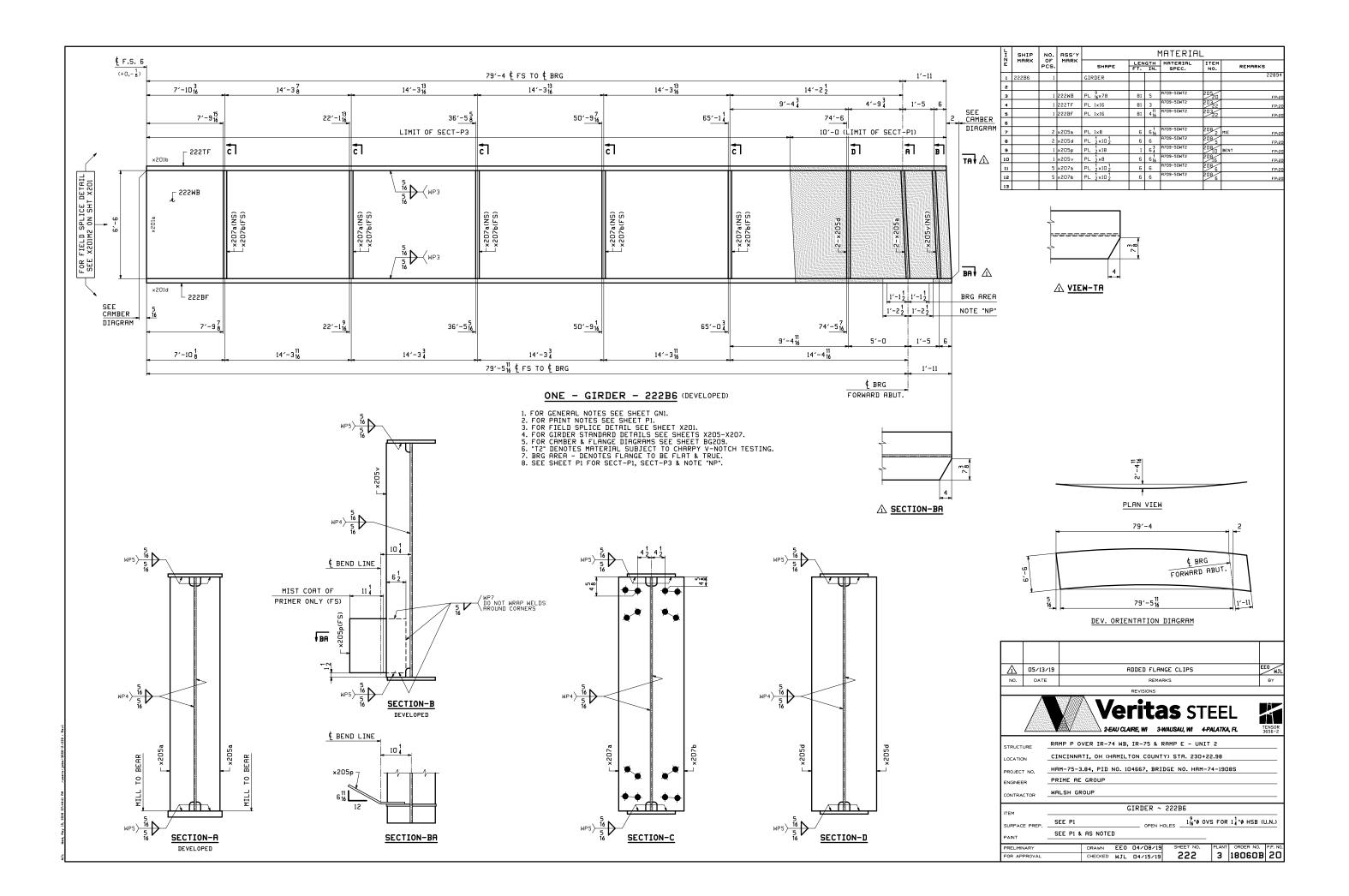


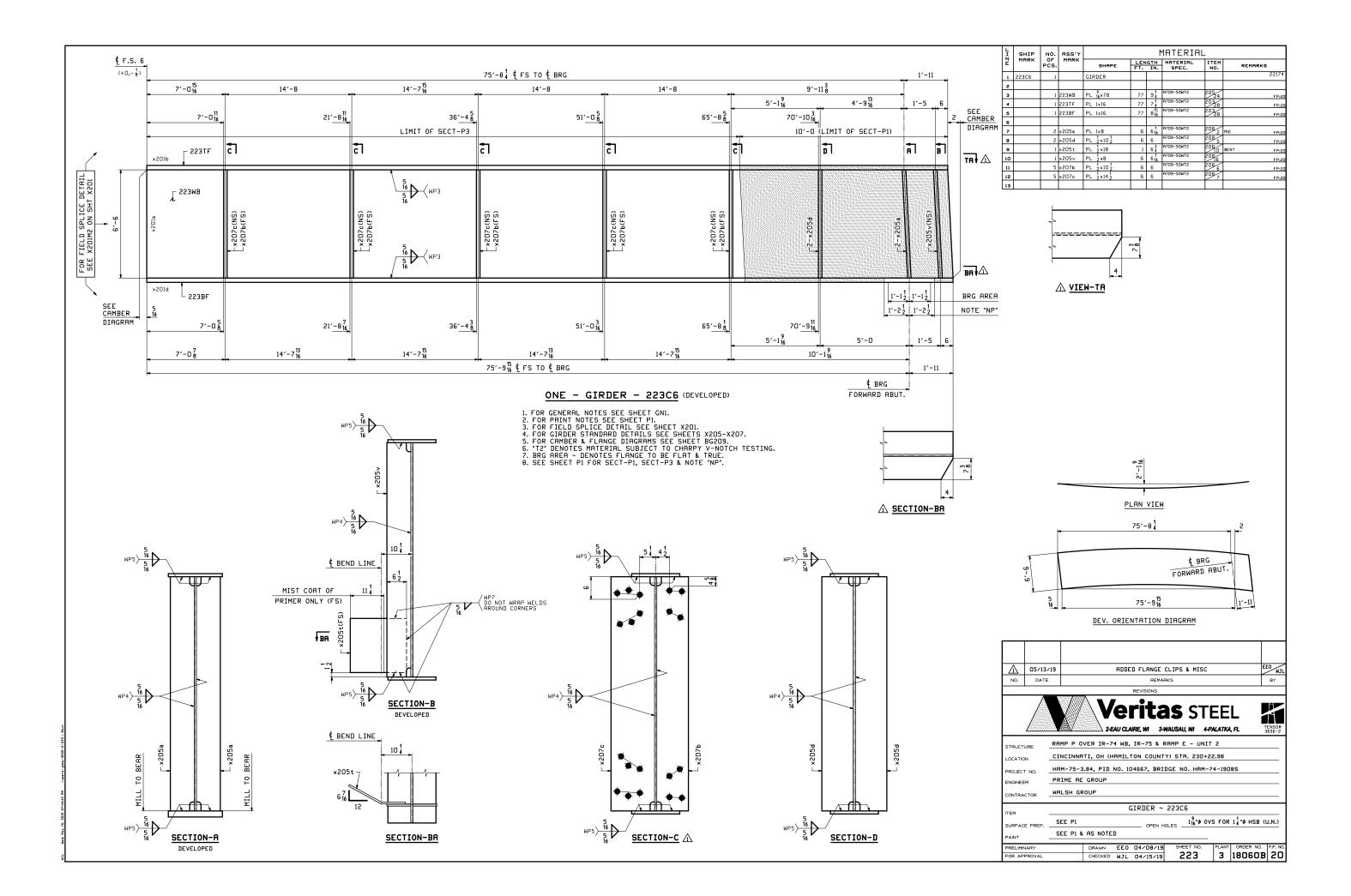
					NAUSAU, MI	FEE 4-PALATKA		ENSOR 656-2
STRUCTURE	RAMP P 0	VER IR-7	4 WB,	IR-75 & F	RAMP E - UN	IT 2		
LOCATION	CINCINNA	ті, он (н	AMIL'	TON COUNT	Y) STA. 230-	+22.98		
PROJECT NO.	HAM-75-3	.84, PID	NO. 10	04667, BRI	DGE NO. HAM	-74-190	85	
ENGINEER	PRIME AE	GROUP						
CONTRACTOR	WALSH GR	OUP						_
ITEM			(	GIRDER ~	219C5			
SURFACE PREP.	SEE P1			OPEN H	OLES 116"Ø	OVS FOR	14"Ø HSB (L	J.N.)
PAINT	SEE P1 &	AS NOTE	D			_		_
PRELIMINARY		DRAWN	EE0	04/07/19		PLANT		F.P. NO.
FOR APPROVAL		CHECKED	WJL	04/15/19	219	3	18060B	20

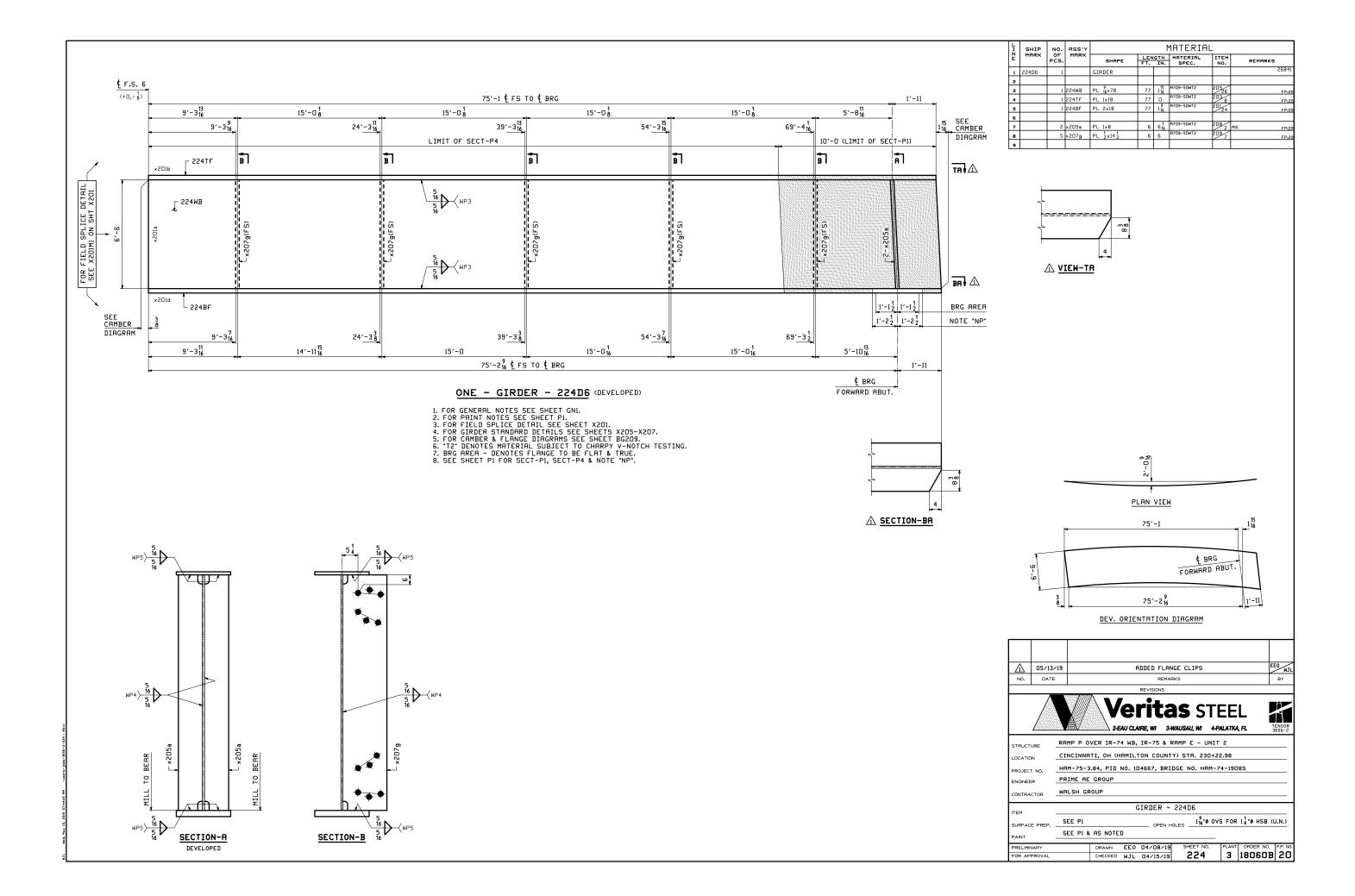


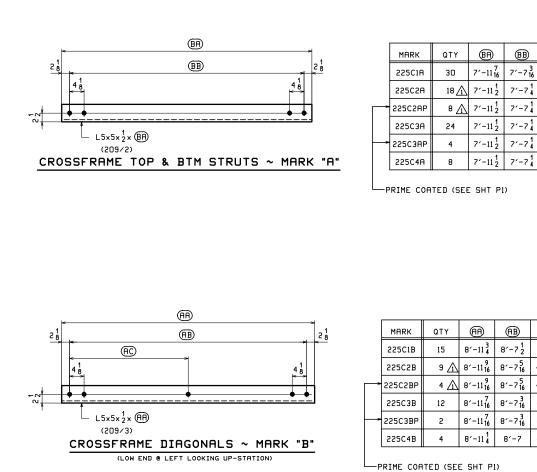
Пчл	SHIP	NO.	ASS'Y				1ATERIF		
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	IGTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	220D5	1		GIRDER					3149
2			220110	9 70	0.2	18	A709-50WT2	205 8	
3 4			220WB 220TF1	PL 16×78 PL 1×18	83	18 11	A709-50WT2	203	FP:
5			220TF2	PL 2x18	40	0	A709-50WT2	20126	FP: FP:
6			220TF3	PL 1×18	20	28	A709-50WT2	203	FP:
7		1	220BF1	PL 18×18	23	0 16	A709-50WT2	202	FP:
8			220BF2	PL 28×18	40	0	A709-50WT2 A709-50WT2	ROLO	FP:
9 10		1	220BF3	PL 2×18	20	0		20130	FP:
11		1	×205c	PL 18×8	6	6	A709-50WT2	208	MIE FP:
12			×205d	PL 2×102	6	6	A709-50WT2	2082	FP:
13		1	×206f	PL 18×172	6	6 <mark>8</mark>	A709-50WT2	208	MIE FP:
14		5	x207g	PL 2×142	6	6	A709-50WT2	2087	FP:
		-	-	<u>P</u> 37'-3 <sup>13</sup> 16	-,58 -,16 -,16		45'-9 <mark>5</mark>		-
	6,-6			-	83'-		-		
		7 16		37′-3 <sup>13</sup> 4_ B	RG 83'-	-1 <sup>1</sup> / <sub>8</sub>	- 45'-9 <sup>5</sup> 45'-7 4		30
		/13/19		37'-3 <sup>13</sup> <u>¢ B</u> <u>PIE</u> 37'-516 <u>DEV. ORIE</u> ADI	RG 4 83'-	-18 	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM		EEO WJ
4		/13/19 /24/19		37'-3 <sup>13</sup> <u>¢ B</u> <u>PIE</u> 37'-516 <u>DEV. ORIE</u> ADI	RG 4 83'-	-118 015 016 TION	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM DIAGRAM HICKNESS @		EEO NJ EEO NJ
4		/13/19		37'-3 <sup>13</sup> <u>¢ B</u> <u>PIE</u> 37'-516 <u>DEV. ORIE</u> ADI	RG 4 83'- RG 4 83'- NTAT	TION RG LE	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM		EEO HI
	2 05. 2 04.	/13/19 /24/19 ATE		37'-3 <sup>13</sup> <u>¢ B</u> <u>PIE</u> 37'-516 <u>DEV. ORIE</u> ADI	RG A 83'- 83'- 83'- NTAT RED BF R A 83'- R A R A R A	RG LEE GIG LEE FF T REMA SIGNS	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM DIAGRAM HICKNESS @ ARKS <b>BSS</b> WAUSAU, M	PIER 4	
N	2 05. 2 04. 10. C	<pre>/13/19 /24/19 ATE</pre>		37'-3 <sup>13</sup> <u>¢</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> REV'D BF <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u>	RG 4 83'- 83'- 83'- 83'- NTAT RED BF R 4 83'- NTAT	RG LE FF T REM SIONS CONS CONS CONS CONS CONS CONS CONS C	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b>	PIER 4	
STF		/13/19 /24/19 ATE 	INCINNA	37'-3 <sup>13</sup> <u>¢</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI <u>ADI <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>ADI</u> <u>A</u></u></u>	RG R 4 83'- 83'- NTAT RED BF R 4 83'- NTAT	COLOR RG LE RFF T REMA SIGNS COLOR REMA SIGNS	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> WAUSAU, M RAMP E - L TY) STA. 23	PIER 4	
		/13/19 /24/19 ATE 	INCINNA AM-75-3	37'-3 <sup>13</sup> <u>¢</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u>PIE</u> <u></u>	RG R 4 83'- 83'- NTAT RED BF R 4 83'- NTAT	COLOR RG LE RFF T REMA SIGNS COLOR REMA SIGNS	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> WAUSAU, M RAMP E - L TY) STA. 23	PIER 4	
		/13/19 /24/19 ATE Rf C: Hi Hi Pi	INCINNA AM-75-3 RIME AE	37'-3 <sup>13</sup> <u>4</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>2EAU CL</u> <u>VER IR-74 MB</u> TI, OH (HRMIL <u>184</u> , PID NO. 1 <u>GROUP</u>	RG R 4 83'- 83'- NTAT RED BF R 4 83'- NTAT	COLOR RG LE RFF T REMA SIGNS COLOR REMA SIGNS	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> WAUSAU, M RAMP E - L TY) STA. 23	PIER 4	
		/13/19 /24/19 ATE Rf C: Hi Hi Pi	INCINNA AM-75-3	37'-3 <sup>13</sup> <u>4</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>2EAU CL</u> <u>VER IR-74 MB</u> TI, OH (HRMIL <u>184</u> , PID NO. 1 <u>GROUP</u>	RG R 4 83'- 83'- NTAT RED BF R 4 83'- NTAT	COLOR RG LE RFF T REMA SIGNS COLOR REMA SIGNS	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> WAUSAU, M RAMP E - L TY) STA. 23	PIER 4	
STF LOC ENC CON		/13/19 /24/19 ATE Rf C: Hi Hi Pi	INCINNA AM-75-3 RIME AE	37'-3 <sup>13</sup> <u>4</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF}</u> </u></u>	RG RG RG RG RG RG RG RG RG RG RG RG RG R	RG LE FFF T REMU SIGNS COUN 2, BR	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> WAUSAU, M RAMP E - L TY) STA. 23	PIER 4	
	A D5. A D4. NO. C RUCTURE CATION DECT NO. SINEER NTRACTOR	/13/19 24/19 ATE 	INCINNA AM-75-3 RIME AE ALSH GR	37'-3 <sup>13</sup> <u>4</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF}</u> </u></u>	RG         1           83'-         83'-           RG         83'-           NTAT         83'-           RG         83'-           NTAT         83'-           RG         83'-           RG         83'-           NTAT         83'-           RED         BF           NTAT         83'-           REVIE         83'-           GG STI         83'-           REVIE         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-	COLOR COLOR CION RG LE COLOR CION RG LE COLORICOLOR CO	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BSS</b> <b>BSS</b> HWAUSAU, MI RAMP E - L TY) STA. 23 IDGE NO. HF	PIER 4 <b>TEI</b> <i>4PALA</i> JNIT 2 0+22.96 3M-74-1	EL 150085
		/13/19 24/19 ATE Rf C: C: HI PI WI	INCINNA AM-75-3 RIME AE ALSH GR GEE P1	37'-3 <sup>13</sup> <u>+</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>ADI</u> <u>REV'D BE</u> <u>ADI</u> <u>REV'D BE</u> <u>2EAU CL</u> <u>VER</u> IR-74 WB TI, OH (HAMIL <u>.84</u> , PID NO. 1 <u>GROUP</u> <u>20UP</u>	RG         1           83'-         83'-           RG         83'-           NTAT         83'-           RG         83'-           NTAT         83'-           RG         83'-           RG         83'-           NTAT         83'-           RED         BF           NTAT         83'-           REVIE         83'-           GG STI         83'-           REVIE         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-	COLOR COLOR CION RG LE COLOR CION RG LE COLORICOLOR CO	45'-9 <sup>5</sup> 45'-7 <sup>4</sup> DIAGRAM HICKNESS @ ARKS <b>BS S</b> RAMP E - L TY) STA. 23 IDGE NO. HP	PIER 4 <b>TEI</b> <i>4PALA</i> JNIT 2 0+22.96 3M-74-1	
	A D5. A D4. NO. C RUCTURE CATION DECT NO. SINEER NTRACTOR M REACE PRE	/13/19 24/19 ATE Rf C: C: HI PI WI	INCINNA AM-75-3 RIME AE ALSH GR GEE P1	37'-3 <sup>13</sup> <u>4</u> B PIE 37'-5 <sup>16</sup> <u>DEV. ORIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>PIE</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>REV'D BF</u> <u>ADI</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF</u> <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF} <u>REV'D BF}</u> <u>REV'D BF}</u> </u></u>	RG         1           83'-         83'-           RG         83'-           NTAT         83'-           RG         83'-           NTAT         83'-           RG         83'-           RG         83'-           NTAT         83'-           RED         BF           NTAT         83'-           REVIE         83'-           GG STI         83'-           REVIE         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-           GG STI         83'-	COLOR COLOR CION RG LE COLOR CION RG LE COLORICOLOR CO	45'-9 <sup>5</sup> 45'-7 <sup>1</sup> DIAGRAM HICKNESS @ ARKS <b>BSS</b> <b>BSS</b> HWAUSAU, MI RAMP E - L TY) STA. 23 IDGE NO. HF	PIER 4 <b>TEI</b> 4-PALA JNIT 2 0+22.96 AM-74-1 0 OVS F	EL 150085





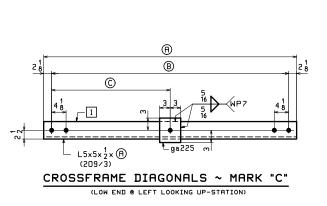




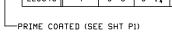


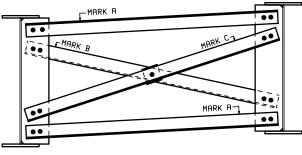
MA	RК	QTY	Æ	æ	Æ
225	C1B	15	8'-11 <sup>3</sup>	8'-7 <sup>1</sup> 2	4'-3 <sup>3</sup> 4
2250	C2B	э \Lambda	8′-11 <sup>9</sup>	8'-7 <mark>5</mark>	4'-3 <sup>11</sup> 16
<b>-</b> 225C	2BP	4 🏠	8'-11 <sup>9</sup> 16	8'-7 <mark>5</mark>	4'-3 <sup>11</sup> 16
2250	СЗВ	12	8'-11 <sup>7</sup> 16	81-7 <sup>3</sup> 16	4'-3 <sup>5</sup>
+ 2250	ЗВР	2	8'-11 <sup>7</sup> 16	8′-7 <sup>3</sup>	4'-385
2250	C4B	4	8'-11 4	8′-7	4'-3 <sup>1</sup> 2

Ŀ							1ATERIA	1		Ŀ			I				1ATERIAI		
LHZE	SHIP MARK	NO. OF PCS.	ASS'Y MARK	011005	LEN	IGTH	MATERIAL	ITEM	2542240	LHZE	SHIP MARK	NO. OF PCS.	ASS'Y MARK	011005	LEN	IGTH	MATERIAL	ITEM	REMARKS
	25C1C	15		SHAPE DIAGONALS	FT.	IN.	SPEC.	N0.	REMARKS 158	1	225C1A	30		SHAPE	FT. 7	IN.	SPEC. 8709-50WT2	NO.	129
42	23010		a225	L 5x5x 2	9	5 <sup>7</sup> 516	A709-50WT2	2093		2	223011	30		L JAJA2	- '			<u>۲</u>	
43		15	ga225	PL 2×6	0	6	A709-50WT2	2094			225C2A	18		L 5x5x2	7	112	A209-50WT2	2092	129
44	25020	۹ ۱۸		DIAGONALS					158	4	225C2RF	· / · B		L 5x5x 2	7	112	A709-50WT2	209	PAINTED 129
46		<u>A</u> 9		L 5x5x2	9	58	R709-50WT2	209 3		6	LEGGEN			2 00002					
47		Λ º	ga225	PL 2×6	0	6	A709-50WT2	209		7	225C3A	24		L 5x5x2	7	112	A709-50WT2	2092	129
48 49 2	25C2CP	1 4		DIAGONALS					PRINTED 158	8	225C3AF	4		L 5×5× 2	7	11 2	A709-50WT2	2092	PAINTED 129
50		4		L 5×5×2	9	58	A709-50WT2	2093		10									
51 52		<u>1 4</u>	ga225	PL 2×6	0	6	A709-50WT2	209			225C4A	8		L 5x5x2	7	112	A709-50WT2	209 2	129
	25C3C	12		DIAGONALS					158	12									
54			c225	L 5x5x2	9	5 <sup>3</sup>	A709-50WT2 A709-50WT2	209 3			225C1B	15		L 5x5x2	8	11 4	A709-50WT2	2093	145
55 56		12	ga225	PL 2×6	0	6	H703-30412	209		15	225C2B	۹ <u>۱</u>		L 5x5x 2	8	11 <sup>9</sup> 11 16	A709-50WT2	209 3	145
	25C3CP	2		DIAGONALS					PRINTED 158	17	22JC2B			L JXJX2	0				
58			c225	L 5×5×2	9	54	A709-50WT2 A709-50WT2	209 3			225C2BF	<u>'</u>		L 5x5x2	8	11 <mark>9</mark> 11 16	A709-50WT2	209 3	PAINTED 145
59 60		2	ga225	PL 2×6	0	6		209		19	225C3B	12		L 5×5×2	8	11.7	A709-50WT2	209	145
	25C4C	4		DIAGONALS					159	21	220000			2 37372	Ŭ				
62			d225	L 5x5x <sup>1</sup> 	9	6	A709-50WT2 A709-50WT2	209 3			225C3BF	2		L 5x5x2	8	11 <sup>7</sup> 11 16	A709-50WT2	209 3	PRINTED 145
63 64		4	ga225	PL 2×6	0	6		209		23	225C4B	4		L 5x5x 2	8	111	A709-50WT2	209 3	144
65										25									
66 67										26 27									
68										27									
69										29									
70 71										30 31									
72										32									
73 74										33									
74 75										34 35									
76										36									
77 78										37 38									
79										39									
80										40									
	ARK B	ARK			MAR	K CT													
												6/13/19		1	REVISE	D CROS	SSFRAME QTY		DPS/
								_		Ľ	10. E	DATE			REVIS		ARKS		BY
<u>CF</u>				MARK LO		TIC	<u>00</u>							Ve 2-EAU CL	ri Aire, v		<b>AS</b> S <sup>-</sup> WAUSAU, WI	4-PALA	
											RUCTURE			VER IR-74 WB					
											ATION			TI, OH (HAMIL					
											DJECT NO.		AM-75-3 RIME AE	.84, PID NO. 1	u4661	, BR	INGE NO. HAI		3082
											SINEER		ALSH GR						
				TES:						CON	NTRACTOR				<i>c</i> ·				
				OR GENERAL						ITE	м				CRC	SSF	RAMES		1
				ALL MATERIF					, UN. G REQUIRED.	sur	RFACE PRI		SEE SHEI			OPEN	HOLES 116"Ø	FOR 1	4 "Ø HSB
			5.		GIUR		, noren r	-9110	S NEWDINED.	PA			SEE SHE						
											ELIMINARY R APPROV	AL			03/			PL/	I8060B 37
															,				<b></b>   ••

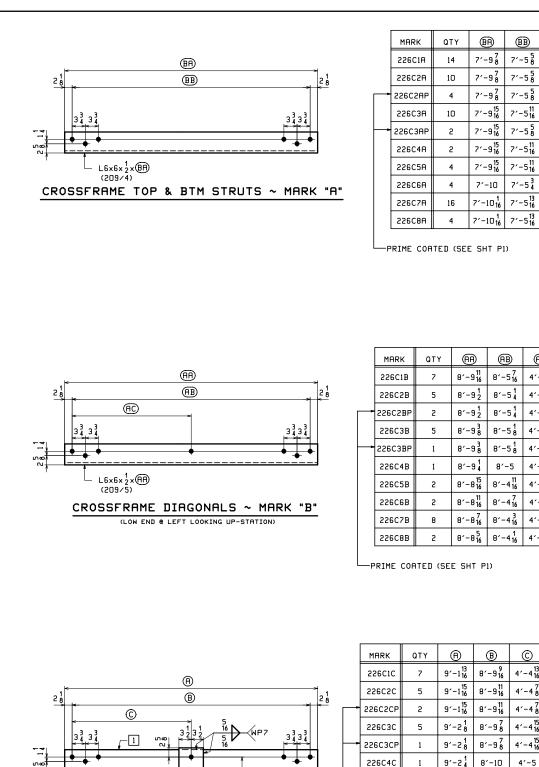


	MARK	QTY	A	B	©	1
	225C1C	15	9'-5 <sup>7</sup> 16	9'-1 <mark>3</mark>	4'-6 <sup>5</sup>	a225
	225C2C	9 🛆	9'-5 <mark>8</mark>	9'-1 <sup>3</sup>	4'-6 <sup>11</sup> 16	b225
-	225C2CP	4 🛆	9'-5 <mark>8</mark>	9'-1 <mark>3</mark>	4'-6 <sup>11</sup> 16	b225
	225C3C	12	9′-5 <sup>3</sup> 4	9'-1 <sup>1</sup> 2	4'-6 <sup>3</sup>	c225
•	225C3CP	2	9′-5 <sup>3</sup>	9'-1 1 2	4'-6 <sup>3</sup>	c225
	225C4C	4	9′-6	9'-1 <mark>3</mark>	4'-6 <mark>8</mark>	d225



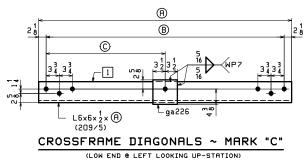






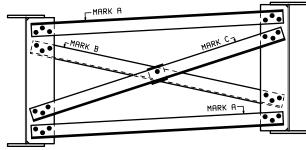
	MARK	QTY	(AA)	AB	(AC)
	226C1B	7	8'-9 <sup>11</sup> 16	8'-5 <mark>7</mark>	4'-24
	226C2B	5	8'-9 <sup>1</sup> 2	8'-5 <mark>1</mark>	4'-285
	226C2BP	2	8'-9 <sup>1</sup> 2	8'-5 4	4'-2 <sup>5</sup>
	226C3B	5	8'-9 <sup>3</sup>	8'-5 <mark>8</mark>	4'-2 <sup>9</sup>
•	226C3BP	1	8'-9 <sup>3</sup>	8′-5 <mark>8</mark>	4'-2 <sup>9</sup>
	226C4B	1	8'-9 <mark>4</mark>	8′-5	4'-2 <sup>1</sup> 2
	226C5B	2	8′-8 <sup>15</sup>	8'-4 <sup>11</sup> 16	4'-2 <sup>3</sup>
	226C6B	2	8'-8 <sup>11</sup> 16	8'-4 <mark>7</mark>	4'-24
	226C7B	8	8'-8 <mark>7</mark>	8′-4 <mark>3</mark>	4'-2 <mark>8</mark>
	226C8B	2	81-8 <mark>5</mark>	8′-4 <mark>1</mark> 6	4'-2 <sup>1</sup>

-

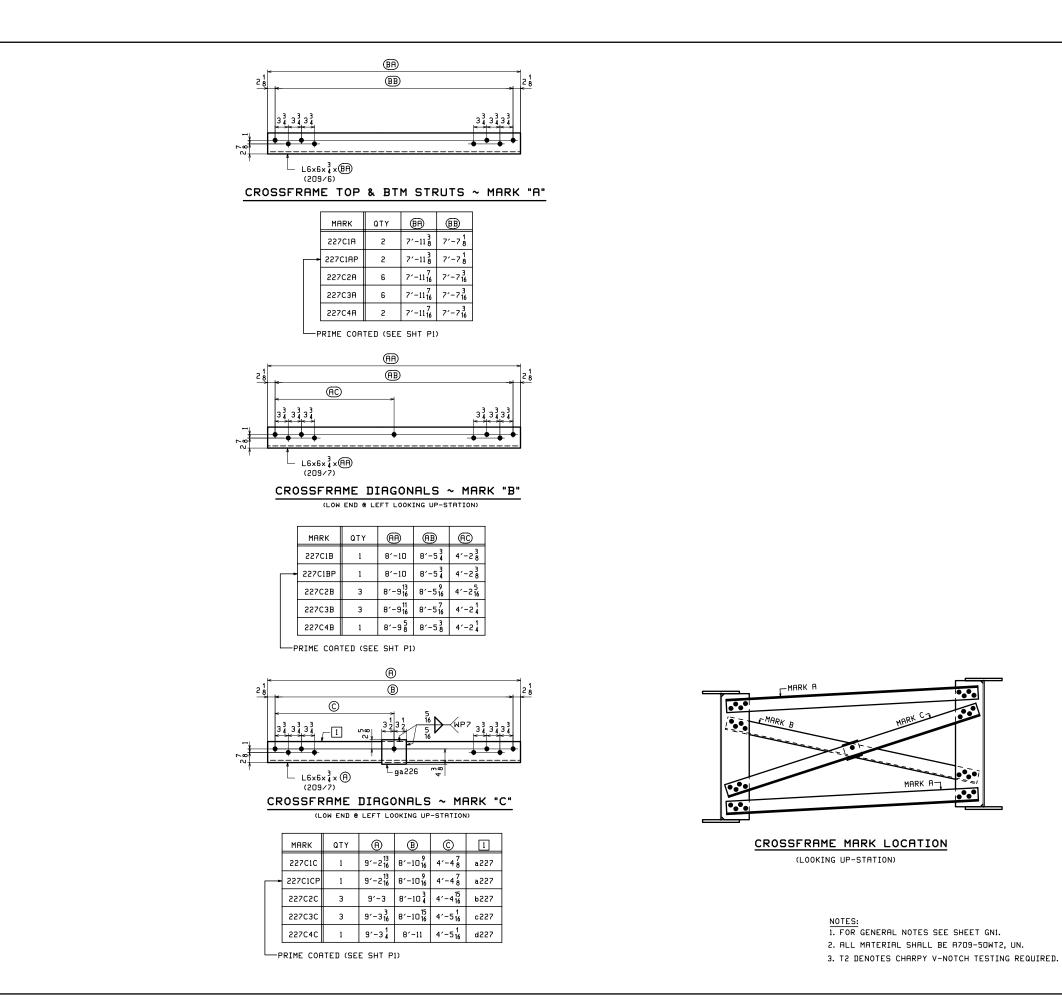


MARK	QTY	A	B	©	1
226C1C	7	9′-1 <sup>13</sup>	8'-9 <mark>9</mark>	4'-4 <sup>13</sup> 16	a226
226C2C	5	9′-1 <sup>15</sup>	8'-9 <mark>1</mark> 1	4'-4 <mark>8</mark>	b226
226C2CP	2	9′-1 <sup>15</sup>	8'-9 <mark>1</mark> 1	4'-4 <mark>8</mark>	b226
226C3C	5	9'-2 <mark>8</mark>	8'-9 <mark>8</mark>	4'-4 <sup>15</sup>	c226
226C3CP	1	9'-2 <mark>8</mark>	8'-9 <mark>8</mark>	4'-4 <sup>15</sup>	c226
226C4C	1	9'-24	8'-10	4'-5	d226
226C5C	2	9'-28	8'-10 <sup>3</sup>	4'-5 <sup>3</sup> 16	f226
226C6C	2	9′-2 <sup>15</sup>	8'-10 <mark>11</mark>	4'-5 <sup>5</sup> 16	g226
226C7C	8	9'-3 <mark>4</mark>	8′-11	4'-5 <sup>1</sup> 2	k226
226C8C	2	9'-3 <sup>7</sup> 16	8'-11 <sup>3</sup>	4'-5 <sup>5</sup>	m226

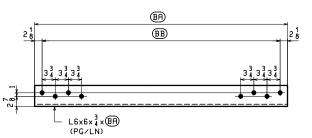
MARK	NO.	ASS'Y				MATERIA			I N E	SHIP	NO. OF					1ATERIA			
	OF PCS.	MARK	SHAPE	LEN FT.	IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	Ē	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMAR	
26C1C	7		DIAGONALS			0300 50073		186	1	226C1A	14		L 6x6x 2	7	9 <sup>7</sup> 8	A709-50WT2	209 4		
		a226	L 6×6×2			A709-50WT2 A709-50WT2	209 5		2	226620	10		L C C 1		0.7	A709-50WT2	209		
	2	ga226	PL 2×7	0	7	+	209		3	226C2A	10		L 6×6×2				209 4		
26C2C	5		DIAGONALS					186		226C2AP	4		L 6×6× 2	7	9 <sup>7</sup> 8	A709-50WT2	209 4	PAINTED	
		b226	L 6×6×2		1 10	A709-50WT2 A709-50WT2	209 5		6						10	0700 50070			
	5	ga226	PL 2×7	0	7	H709-30W12	209			226C3A	10		L 6×6×2	7	916	A709-50WT2	2094		
26C2CP	2		DIAGONALS				-	PRINTED 186	8	226C3AP	2		L 6×6× 2	7	9 <sup>15</sup>	A709-50WT2	209	PRINTED	
		b226	L 6×6×2	9	1 <sup>15</sup> 1 <sub>16</sub>	A709-50WT2	209 5		10				2 ONON 2				- '		
	2	ga226	PL 2x7	0		A709-50WT2	209		11	226C4A	2		L 6x6x 2	7	9 <sup>15</sup> 9 <sup>16</sup>	A709-50WT2	2094		
00000	5		DIAGONALS			<u> </u>		187	12	220050	4		1		0.15	A709-50WT2	209 4		
26C3C		c226	L 6x6x2	9	28	A709-50WT2	2095		13	226C5A	4		L 6x6x2				4		
		ga226	PL 2×7	0		A709-50WT2	209			226C6A	4		L 6x6x 2	7	10	A709-50WT2	209 4		
						<u> </u>	_	187	16				1		1	8209-50WT2	209 4		
26C3CP	1	c226	DIAGONALS		28	A709-50WT2	209 5	PRINTED 107	17	226C7A	16		L 6x6x2	7	10 16	A709-50WT2			
		ga226	PL 2×7	0		R709-50WT2	209			226C8A	4		L 6x6x 2	7	1016	A709-50WT2	209 4		
								102	20										
26C4C	1	1000	DIAGONALS	-		A709-50WT2	209/	187	21	220.01-	<u> </u>		1	_	c 11	A709-50WT2	209 5		
		d226 ga226	L 6×6×2 PL 2×7		24	R709-50WT2	209 5		22 23	226C1B	7		L 6x6x2				5		
		34220	201		Ľ		15			226C2B	5		L 6×6×2	8	92	A709-50WT2	2095		_
6C5C	2		DIAGONALS			0200 50055	0.00	187	25				-						
		f226	L 6×6×2	_	6 8	A709-50WT2 A709-50WT2	209 5			226C2BP	5		L 6x6x2	8	92	A709-50WT2	2095	PRINTED	
	2	ga226	PL 2×7	0	7	+	209		27	226C3B	5		L 6×6×2	R	93	A709-50WT2	209 5		
6C6C	2		DIAGONALS					188	28	_20000			_ 0.00 Z						
		g226	L 6×6× 2		⊂ 16	8709-50WT2	209 5			226C3BP	1		L 6x6x 2	8	9 <mark>8</mark>	A709-50WT2	209 5	PAINTED	
	2	ga226	PL 2×7	0	7	A709-50WT2	209		31	226C4B			1 cuc 1	<u> </u>	1	A709-50WT2	209 5		
6C7C	8		DIAGONALS			-		188	32	226C4B	1		L 6x6x2				5		
		k226	L 6×6×2	9	34	R709-50WT2	209 5			226C5B	2		L 6×6×2	8	8 <sup>15</sup> 816	R709-50WT2	2095		
	8	ga226	PL 2×7	0	7	A709-50WT2	209		35								200 <		
6C8C	2		DIAGONALS		-	<u> </u>	_	189	36 37	226C6B	2		L 6×6×2			A709-50WT2	209 5		
6080		m226	L 6x6x2	9	3 <sup>7</sup> 16	A709-50WT2	209 5			226C7B	8		L 6×6× 2	8	816	A709-50WT2	209 5		
		ga226	PL 2×7	0		R709-50WT2	209		39				··· <u>2</u>						
						ļ	_			226C8B	2		L 6×6×2	8	8 <sup>5</sup> 816	A709-50WT2	209 5		
						<u> </u>	_		41 42										
						<u> </u>			43										
									44										
						<del> </del>			45										
				+		<u> </u>	+		46 47					$\vdash$					
									48										
				_		<u> </u>		]	49										
				_	-	<u> </u>			50 51					-					
				+		+	+		51										
		_		-															
							<u> </u>												
_м	IARK	A																	
F.W	IARK	A																	
		A		MARK	<u>(</u>														
		A		MARK					<b>—</b>			1							
		A		MARK	(C)														
		A					7			0.	ATE				REM	ARKS			F
		A			RK A		Ĩ		N	о. D,	ATE			REVIS		ARKS			e
		A					7		NI	0. DA	ATE				IONS				E
		A					7		N	0. D/	ATE		Ve	REVIS	IONS	arks <b>AS</b> S	TEI	 	ł
			MARK L	MAF	RK A		7		N4	o. D/			Ve	ri Aire, V	10NS 12	<b>as</b> s' Hwausau, wi	4-PALAT		ł
		AME	MARK L	MAF	RK A					0. DA	RI		VER IR-74 WB	<b>AIRE, W</b> , IR-	10NS 111 11 3 175 &	ASS WAUSAU, WI RAMP E - L	4-PALA	TKA, FL	ł
		AME		MAF	RK A				STR		RI C	INCINNA	VER IR-74 WB TI, OH (HAMIL	AIRE, M , IR-	10NS 113 75 & 20UN	<b>BS</b> S <i>WAUSAU, W</i> RRMP E - L TY) STR. 23	4-PALA	<b>TKA, FL</b>	ł
		AME		MAF	RK A				STR	UCTURE	RI C H	INCINNA AM-75-3	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1	AIRE, M , IR-	10NS 113 75 & 20UN	<b>BS</b> S <i>WAUSAU, W</i> RRMP E - L TY) STR. 23	4-PALA	<b>TKA, FL</b>	ł
		AME		MAF	RK A				STR LOC. PRO		RI C HI PI	INCINNA AM-75-3 RIME AE	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	AIRE, M , IR-	10NS 113 75 & 20UN	<b>BS</b> S <i>WAUSAU, W</i> RRMP E - L TY) STR. 23	4-PALA	<b>TKA, FL</b>	ł
		AME	UP-STATION	MAF	RK A				STR LOC. PRO ENG	UCTURE ATION	RI C HI PI	INCINNA AM-75-3	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	AIRE, M , IR-	10NS 113 75 & 20UN	<b>BS</b> S <i>WAUSAU, W</i> RRMP E - L TY) STR. 23	4-PALA	<b>TKA, FL</b>	TEN365
									STR LOC. PRO ENG CON	UCTURE ATION JECT NO. INEER TRACTOR	RI C HI PI	INCINNA AM-75-3 RIME AE	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	ARE, W	100NS 75 & 20UN 7, BR	<b>BS</b> S <i>WAUSAU, W</i> RRMP E - L TY) STR. 23	4-PALA	<b>TKA, FL</b>	ł
		AME OKING 1.	UP-STATION TES:		RK A	ON SEE SHEET	GN1.	, UN.	STR LOC. PRO ENG CON	UCTURE ATION JECT NO. INEER TRACTOR		INCINNA AM-75-3 RIME AE ALSH GR	VER IR-74 WB TI, OH (HRMIL .84, PID NO. 1 GROUP OUP	AIRE, W , IR- 	IONS 1 1 1 1 1 1 1 1 1 1 1 1 1	RAMES	+PALA1	<b>TKA, FL</b> 3 9085	ł
		AME OKING 1. 2.	UP-STATION <u>TES:</u> FOR GENERF ALL MATERI		RK A	ON SEE SHEET BE A709-	GN1. 50WT2	, UN. G REQUIRED.	STR LOC. PRO ENG CON	UCTURE ATION JECT NO. INEER TRACTOR	Ri C Hi Pi	INCINNA AM-75-3 RIME AE	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP OUP	AIRE, W , IR- 	IONS 1 1 1 1 1 1 1 1 1 1 1 1 1	RAMES	+PALA1	<b>TKA, FL</b>	ł



PRIME COATED (SEE SHT P1)



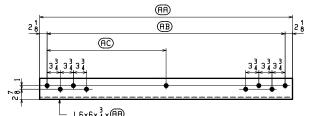
Ļ	SH:	7.0	NO.	ASS'Y			1	1ATERIA	1		
LHZE	MAR	RK	OF PCS.	MARK	SHAPE	LEN	GTH IN.		ITEM	REMARKS	
1	227C	18	2		L 6×6×4	7	11 8	A709-50WT2	209 6		228
2 3	227C	1AP	2		L 6×6×4	7	11 8	A209-50WT2	2096	PAINTED	228
4 5	227C	2A	6		L 6×6×4	7	11 <sup>7</sup> 11 <sub>16</sub>	A709-50WT2	209 6		228
6	2270	20	6		L 6×6×4	7	11 7 11 16	A709-50WT2	209 6		228
7 8	227C				-			A709-50WT2	-		228
9 10	227C	48	2		L 6×6×4	7	11 <mark>7</mark> 11 16	H703-30W12	209 6		220
11 12	227C	1B	1		L 6×6×4	8	10	A709-50WT2	209 7		254
13								A709-50WT2	209 7		254
14 15	227C	IBP	1		L 6×6×4	8	10			PAINTED	
16 17	227C	2B	3		L 6×6×4	8	9 <sup>13</sup> 9 <sup>16</sup>	R709-50WT2	2097		253
18	227C	3B	3		L 6×6×4	8	9 <sup>11</sup> 9 <sup>16</sup>	A709-50WT2	2097		253
19 20	227C	4B	1		L 6×6×4	8	9 <sup>5</sup>	A709-50WT2	2097		253
21 22											
23 24	227C	1C	1	a227	DIAGONALS L 6×6×4	9	2 <sup>13</sup> 216	A709-50WT2	209 7		272
25				ga226	PL 2×7	0	⊂16 7	A709-50WT2	209		
26 27	227C	1CP	1		DIAGONALS					PAINTED	272
28 29		_		a227 ga226	L 6×6×4 PL 1/2×7	9	213 7	A709-50WT2 A709-50WT2	209 7 209 7		
30				54220			,		15		273
31 32	227C	20	3	b227	DIAGONALS L 6×6×4	9	3	A709-50WT2	2097		273
33 34			3	ga226	PL 2×7	0	7	A209-50WT2	209		
35	227C	зc	3		DIAGONALS		- 3	A709-50WT2	2097		273
36 37				c227 ga226	L 6×6×4 PL 1/2×7	9 0	316 7	R709-50WT2	209		
38 39	227C	4C	1		DIAGONALS						273
40			1	d227	L 6×6×4	9	34	A709-50WT2 A709-50WT2	209 7 209 7		
41 42			1	ga226	PL 2×7	0	7		15		
43 44		_									
45											
46 47											
48 49											
50											
N	10.	DA	ΔTE			DEVIC	REM	ARKS			BY
	L				Ve 2EAU CL		ta	<b>as</b> s" -wausau, wi	TE 4-PALA		NSOR 56-2
	RUCTUP CATION DJECT	NO.	C1 Hf	INCINNA 9M-75-3	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1	TON	COUN	TY) STA. 23	0+22.98		
	SINEER			RIME AE ALSH GR							_
ITE	м					CRO	SSF	RAMES			
		PREF		EE SHEI			OPEN	HOLES 116"Ø	FOR 1	¼"Ø HSB	
PAI			S	EE SHEI		00.1		SHEET NO		ANT ORDER NO.	F.P. NO
	ELIMINA R APPF		L		CHECKED WJL	03/ 04/	17/19		3		37



# CROSSFRAME TOP & BTM STRUTS ~ MARK "A"

MARK	QTY	BA	BB	PG∕LN
 228C1AP	2	7'-11 <sup>3</sup>	7'-7 18	209/6
 28C2AP	4	7'-11 <sup>1</sup> / <sub>2</sub>	7'-74	209/6
 28C3AP	2	8'-1 <sup>15</sup>	7'-9 <sup>11</sup> 16	209/8
 28C4AP	2	8'-2 <mark>8</mark>	7'-9 <mark>8</mark>	209/8
 28C5AP	2	8'-2 <sup>5</sup>	7'-10 <mark>1</mark> 6	209/8

PRIME COATED (SEE SHT P1)

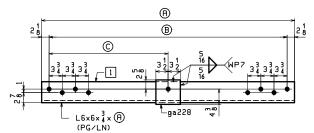


L6×6×4×AA (PG/LN)

CROSSFRAME DIAGONALS ~ MARK "B"

			-	-		
	MARK	QTY	(AA)	AB	Ð	PG∕LN
<b>—</b> •	228C1BP	1	8'-10 <mark>1</mark>	8'-5 <sup>7</sup> 8	4'-2 <sup>1</sup> 2	209/7
-	228C2BP	2	8'-9 <mark>7</mark>	8′-5 <sup>3</sup>	4'-2 <mark>8</mark>	209/7
-	228C3BP	1	9'-0 <mark>8</mark>	8'-7 <mark>8</mark>	4'-3 <sup>1</sup> 2	209/9
-	228C4BP	1	8'-11 <sup>9</sup>	8'-7 <sup>5</sup>	4'-3 <sup>3</sup> 16	209/9
-	228C5BP	1	8'-11 <sup>3</sup>	8'-7 <sup>1</sup> 2	4'-3 <sup>5</sup>	209/9

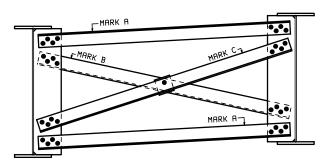
PRIME COATED (SEE SHT P1)



CROSSFRAME DIAGONALS ~ MARK "C"

	MARK	QTY	ß	B	©	1	PG∕LN
<b></b> •	228C1CP	1	9'-2 <sup>11</sup>	8'-10 <mark>7</mark>	4'-4 <sup>13</sup> 16	a228	209/7
-	228C2CP	2	9'-3 <mark>7</mark>	8′-11 <sup>3</sup>	4'-5 <sup>3</sup> 16	b228	209/7
-	228C3CP	1	9′-5 <sup>1</sup> 16	9'-0 <mark>1</mark> 3	4′-6	c228	209/9
-	228C4CP	1	9′-5 <sup>15</sup>	9'-1 <sup>11</sup> 16	4'-6 <sup>7</sup> 16	d228	209/9
-	228C5CP	1	9′-6 <mark>8</mark>	9'-1 <mark>7</mark>	4'-6 1 2	f228	209/9

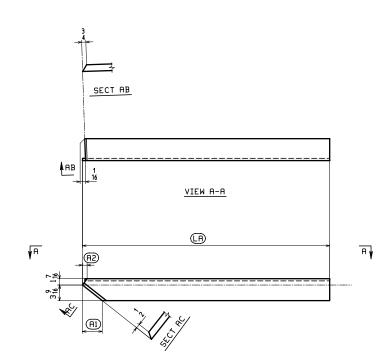
PRIME COATED (SEE SHT P1)



CROSSFRAME MARK LOCATION

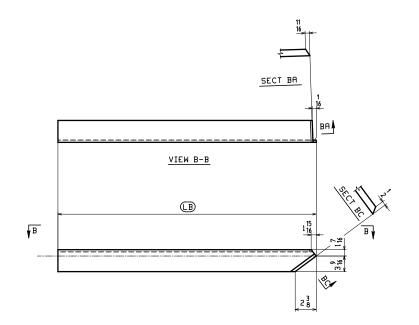
NOTES: 1. FOR GENERAL NOTES SEE SHEET GN1. 2. ALL MATERIAL SHALL BE A709-50WT2, UN. 3. T2 DENOTES CHARPY V-NOTCH TESTING REQUIRED.

LINE	SHIP MARK	NO. OF	ASS'Y MARK				1ATERIA		EM				
	228C1AP	PCS. 2		<b>SHAPE</b> L 6×6×4	FT. 7	IGTH IN. 11 8	SPEC.	1TEM NO. 209	REMARKS PAINTED	228			
1 2	228CIHF	2					0200 50070			22			
э 4	228C2AP	4		L 6×6×4	7	112	A709-50WT2	209 6	PAINTED	22			
5	228C3AP	2		L 6×6×4	8	1 <sup>15</sup> 1 <sub>16</sub>	A709-50WT2	209 8	PAINTED	23			
6 7	228C4AP	2		L 6×6×4	8	28	A709-50WT2	209 8	PRINTED	235			
8 9	228C5AP	2		L 6×6×4	8	25	A709-50WT2	209 8	PAINTED	235			
10 11													
12	228C1BP	1		L 6×6×4	8	10 8	A709-50WT2	2097	PAINTED	25			
13 14	228C2BP	2		L 6×6×4	8	9 <sup>7</sup> 916	A709-50WT2	2097	PAINTED	25			
15 16	228C3BP	1		L 6×6×4	9	08	A709-50WT2	209 9	PRINTED	25			
17	2296488	1		L 6×6×4	8	11 <sup>9</sup> 11 16	A709-50WT2	209 9	DOTATED	25			
18 19	228C4BP						A709-50WT2	ſ	PAINTED	25			
20 21	228C5BP	1		L 6×6×4	8	114	H709-50W12	209 9	PRINTED	20			
22 23	228C1CP	1		DIAGONALS					PRINTED	287			
24		1	a228	L 6×6×4	9	216	A709-50WT2 A709-50WT2	209 7 209					
25 26		1	ga228	PL 18×7	0	7		16					
27 28	228C2CP	2	b228	DIAGONALS L 6×6×4	9	3 <sup>7</sup> 316	A709-50WT2	209 7	PAINTED	28			
29			ga228	PL 18×7	0	7	A709-50WT2	209					
30 31	228C3CP	1		DIAGONALS			A709-50WT2	200	PAINTED	29			
32 33			c228 ga228	L 6×6×4 PL 15×7	9	516 7	H709-50WT2	209 9 209 9					
34 35	228C4CP	1		DIAGONALS					PRINTED	29			
36		1	d228	L 6×6×4	9	5 <sup>15</sup> 516	A709-50WT2 A709-50WT2	209 209 16					
37 38		1	ga228	PL 18×7	0	7		16					
39 40	228C5CP	1	f228	DIAGONALS L 6×6×4	9	6 <sup>1</sup>	A709-50WT2	209 9	PAINTED	29			
41 42		1	ga228	PL 18×7	0	7	A709-50WT2	209					
43													
44 45													
46 47													
48 49													
50													
N	IO. D4	ΑΤΕ			REVIS		ARKS			BY			
_				Ve 2EAUG	LAIRE, W		<b>as</b> s' Hwausau, wi	4-PALA		NSOR			
			AMP P O	VER IR-74 W	B, IR-	75 &	RAMP E - L	JNIT 2					
				ТІ, ОН (НАМІ	LTON	COUN	TY) STA. 23	0+22.98	3				
	ATION	C1	INCINNA AM-75-3	.84, PID NO.									
	ATION	C1 Hf	INCINNA	.84, PID NO. GROUP									
	ATION DJECT NO. SINEER ITRACTOR	C1 Hf	INCINNA AM-75-3 RIME AE	GROUP	104667	', BR							
	ATION DJECT NO. SINEER ITRACTOR	CI Hf Pf Wf	INCINNA AM-75-3 RIME AE ALSH GR	.84, PID NO. GROUP COUP	104667 PIER (	, BR	IDGE NO. HF	AM-74-1					
	ATION DJECT NO. SINEER NTRACTOR M RFACE PREI	 Hf  	INCINNA AM-75-3 RIME AE ALSH GR	.84, PID NO. GROUP 20UP ET P1 ET P1	104667 PIER (	CROS	IDGE NO. HF	FOR 1	9085 4 "Ø HSB				



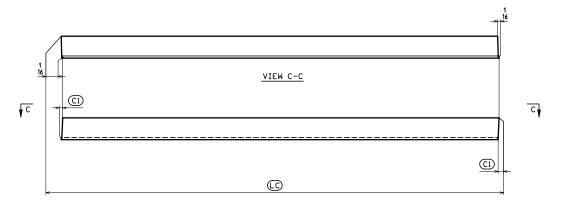


MARK "A"	QTY	æ	A1	A2	PG∕LN
229C1AP	1	6′-7 <sup>13</sup>	24	2	209/11
229C2AP	1	6'-8 <mark>5</mark>	2 13 2 16	2 1 2 16	209/11
229C3AP	1	6'-7 <sup>3</sup>	2 <sup>13</sup> 2 <sup>16</sup>	2 1 2 16	209/11



# <u>CROSSFRAME DIAGONALS ~ MARK "B"</u>

MARK "B"	QTY	B	PG∕LN
229C1BP	1	6'-4 <sup>1</sup> 2	209/11
229C2BP	1	6'-3 <sup>15</sup>	209/11
229C3BP	1	6'-3 <mark>5</mark>	209/11

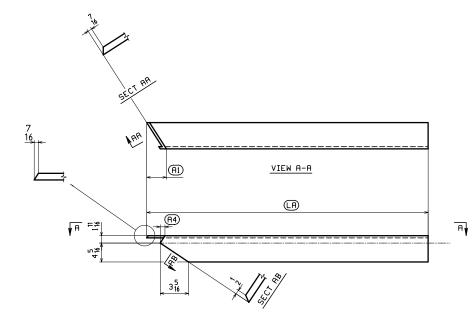


# <u> CROSSFRAME STRUTS ~ MARK "C"</u>

MARK "C"	QTY		(1)	PG∕LN
229C1CP	1	8'-3 <sup>9</sup> 16	3 16	209/10
229C2CP	1	8'-3 <sup>5</sup>	1 4	209/10
229C3CP	1	8'-3 <mark>9</mark>	1 4	209/10

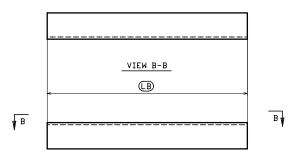
NOTES: 1. FOR GENERAL NOTES SEE SHEET GNI. 2. ALL MATERIAL SHALL BE A709-50WT2. 3. T2 DENOTES CHARPY V-NOTCH TESTING REQUIRED. 4. ALL MATERIAL PRIME COATED (SEE SHT PI)

Ļ	SHIP	NO. RSS'Y MATERIAL											
I H N E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM	REMARKS				
1	229C1AP	1		L 5x5x 2	6	7 13	R709-50WT2	209	PAINTED	108			
2 3	229C2AP	1		L 5x5x2	6	8 <sup>5</sup>	A709-50WT2	2091	PAINTED	108			
4	229C3AP	1		L 5×5×2	6	7 8 7 8	A709-50WT2	209	PRINTED	107			
6						42	A709-50WT2	209		103			
7	229C1BP	1		L 5×5×2	6			/ 11	PAINTED				
9 10	229C2BP	1		L 5×5×2	6	3 <sup>15</sup> 316	A709-50WT2	209	PAINTED	102			
11	229C3BP	1		L 5x5x2	6	3 <sup>5</sup> 316	A709-50WT2	2091	PAINTED	101			
12 13	229C1CP	1		L 5x5x2	8	3 <sup>9</sup> 316	A709-50WT2	209	PAINTED	134			
14 15	229C2CP	1		L 5x5x 2	8	3 8	A709-50WT2	209	PAINTED	134			
16 17	229C3CP	1		L 5×5× 1/2	8	3 <sup>9</sup> 316	A709-50WT2	209	PRINTED	134			
18	2200001			2 04042	Ű	0 10		/ 10					
19 20													
21	22												
23													
24 25	25												
26 27													
28													
29 30													
31 32													
33 34													
35													
	CROSSFRAME MARK LOCATION (LOOKING UP-STATION)												
~	NO. DATE REMARKS BY												
				Ve 2-EAU CL		ta	<b>AS</b> ST wausau, wi			INSOR 556-2			
LOC PRO	RUCTURE ATION DJECT NO. SINEER	1	INCINNA	VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	TON	COUN	TY) STA. 230	+22.98		 			
CON	ITRACTOR	Wf	ALSH GR							—			
ITE		_			NDĊ	ROS	SFRAMES			_ ]			
	RFACE PREI					OPEN	HOLES			-			
PAI	NT		EE SHEI		03/	25/19	SHEET NO.	- PLA	ANT ORDER NO.	F.P. NO.			
	APPROVA	L			04/			3		37			



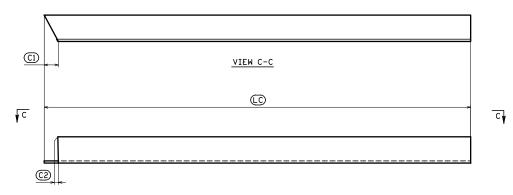
CROSSFRAME DIAGONALS ~ MARK "A"

Mark "A"	QTY	æ	(Al)	A3	A4	PG∕LN
230C1AP	1	6'-10 <mark>1</mark>	5 <sup>5</sup> 16	3 <sup>5</sup> 316	1 15 1 16	209/13
230C2AP	1	6'-9 <mark>15</mark>	5 <sup>7</sup> 516	3 <sup>5</sup> 316	1 <sup>7</sup> 8	209/13
230C3AP	1	6'-10 <mark>4</mark>	54	3 <sup>5</sup> 316	1 <sup>7</sup> 8	209/13



## CROSSFRAME DIAGONALS ~ MARK "B"

Mark "B"	QTY	B	PG∕LN
230C1BP	1	5'-11 8	209/13
230C2BP	1	6'-0 <mark>3</mark>	209/13
230C3BP	1	6'-0 <mark>5</mark>	209/13

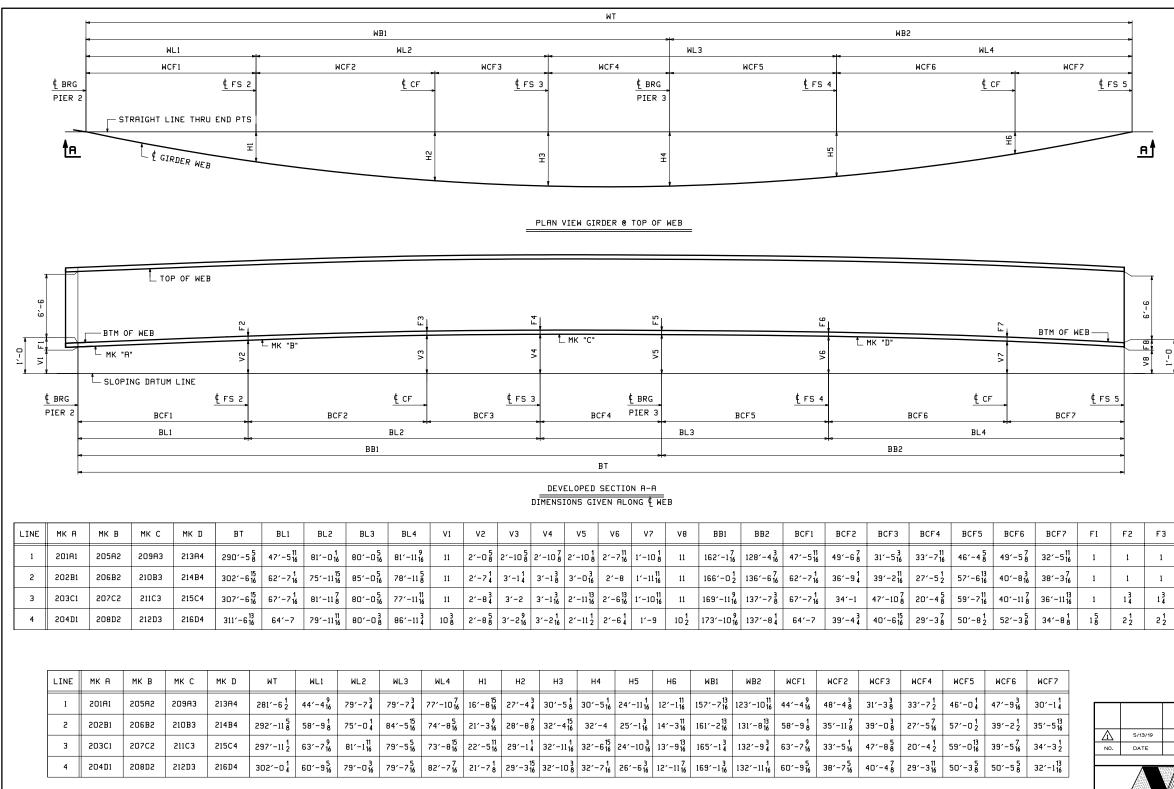


# CROSSFRAME STRUTS ~ MARK "C"

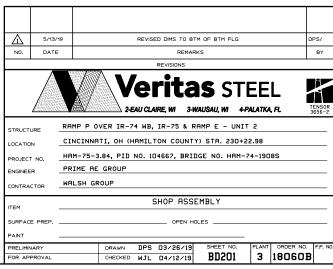
MARK "C"	QTY	C	CI)	Ø	PG∕LN
230C1CP	1	8′-5 <sup>13</sup>	3 <sup>1</sup> 8	3 8	209/12
230C2CP	1	8′-6 <sup>9</sup> 16	3 <sup>3</sup> 316	7 16	209/12
230C3CP	1	8'-7 <sup>5</sup>	3 <sup>5</sup> 316	7 16	209/12

NOTES: 1. FOR GENERAL NOTES SEE SHEET GNI. 2. ALL MATERIAL SHALL BE A709-50WT2. 3. T2 DENOTES CHARPY V-NOTCH TESTING REQUIRED. 4. ALL MATERIAL PRIME COATED (SEE SHT PI)

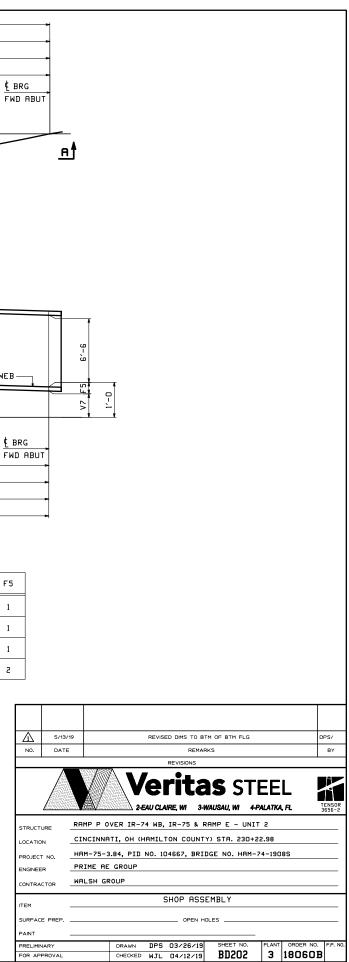
LI												
N E	SHIP MARK	NO. OF PCS.	MARK	SHAPE	GTH IN.	MATERIAL SPEC.	ITEM	REMARKS				
1	230C1AP	1		L 6x6x 2	FT. 6	10 8	8709-50NT2	209 13	PRINTED 134			
2 3	230C2AP	1		L 6×6× 2	6	9 <sup>15</sup> 916	A209-50WT2	2093	PRINTED 134			
4							A709-50WT2		134			
5	230C3AP	1		L 6×6×2	6	10		209	PRINTED			
7	230C1BP	1		L 6×6×2	5	11 8	A709-50WT2	209	PRINTED 116			
8	230C2BP	1		L 6×6×2	6	0 16	A709-50WT2	209	PRINTED 118			
10				1			R709-50NT2	2093	118			
11 12	230C3BP	1		L 6×6×2	6	0 16			PHINIED			
13	230C1CP	1		L 6×6×2	8	5 <sup>13</sup> 516	A709-50NT2	209	PRINTED 166			
15	230C2CP	1		L 6x6x 2	8	6 <mark>9</mark>	A709-50WT2	209	PRINTED 167			
16 17	230C3CP	1		L 6×6×2	8	78	A709-50WT2	209	PAINTED 169			
18				2								
19 20												
21												
24												
25												
27 28												
29												
30 31												
32												
33 34												
35												
CROSSFRAME MARK LOCATION (LOOKING DOWNSTRTION)												
~	10. Di	ATE				REM	ARKS		BY			
F			199		REVIS	IONS						
				Ve 2-EAU CL			<b>AS</b> S7 -wausau, wi	FEI 4-PALA				
STR	RUCTURE			VER IR-74 WB,								
	ATION			TI, OH (HAMIL								
	JECT NO.		IM-75-3 RIME AE	.84, PID NO. 10 GROUP	04667	, в <b></b> е	IDGE NO. HAN	1-74-1	3062			
	INEER		ALSH GR									
-					חםר	ROS	SFRAMES					
ITE	M RFACE PRE											
SUF			EE SHEE			OPEN	HOLES					
	ELIMINARY				03/	25/19			ANT ORDER NO. F.P. NO.			
FOF	R APPROVA	L		CHECKED WJL	04/	18/19	230	3	8  18060B  37			

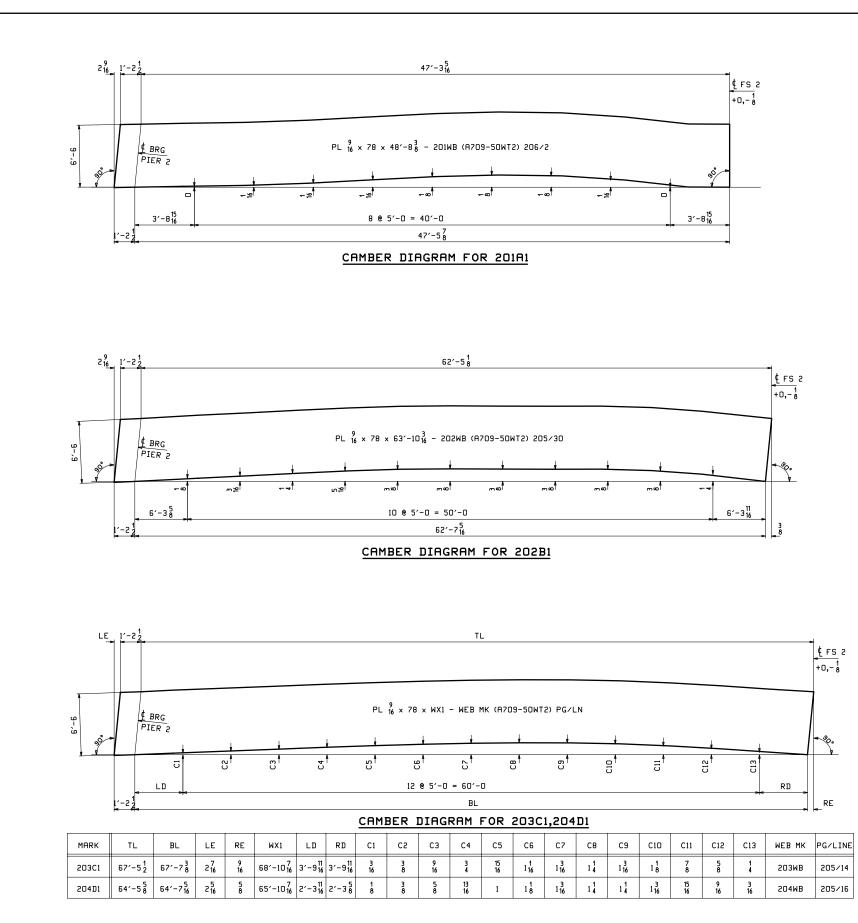


F1	F2	F3	F4	F5	F6	F7	F8
1	1	1	2 <mark>1</mark>	2 <mark>1</mark>	18	1	1
1	1	1	28	28	1	1	1
1	14	14	22	22	14	1	1
185	22	2 <mark>1</mark>	2 <mark>1</mark>	2 <mark>1</mark>	2	12	12

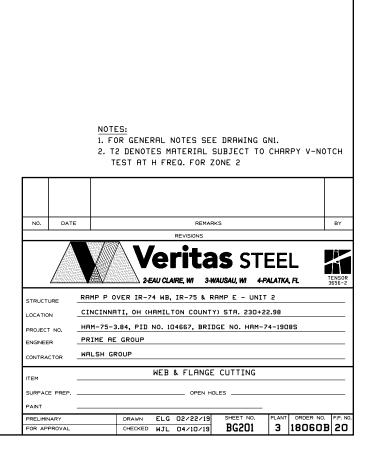


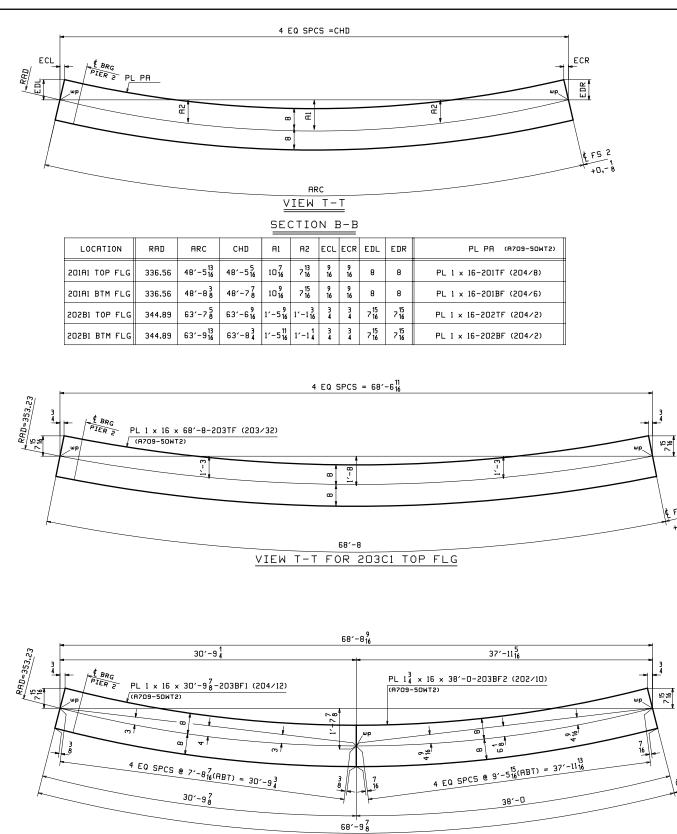
	1-													ŀ	NT												
	_						WB	1							+						WB2						
	-				WL1					+				WI	_2								WL3				
<b>€</b> FS	i 4		h	ICF1	<u>¢</u>	CF		WCF2	¢ FS	5		WCFS	}	¢ brg	•		WCF4	€ FS	6		F5	¢ cf			WCF6	5	<u>¢</u> в Гис
		Г	- STRAIG	HT LINE T	HRU END P	TS								PIER 4													FWI
 ∳_	<u> </u>		¢ GIRRE			Ŧ				H2				13	<b>A</b>				4 4			ъ				/	/
			¢ GIRDE	R WEB										E					-			2					
												_	PLAN VIE	W GIRD	ER @ TOF	P OF WE	В										
9			Ц то	P OF WEB																							
9-,9		-BTM OF W	EB			Ē,			C L	<u> </u>				F 3				L	+ 			5				BTM O	F WEB-
	)	└ мк "D"				72			5		1K "E"			> 4				1		IK "F"		٨6					
		- SLOPING	DATUM LI	INE	¢ c	F			¢ FS :	5				¢ BRG				€ FS	6			¢ CF					<u>¢</u> в
	-		BC	CF1	BL1			BCF2		•		BCF3		PIER 4 BL2	-		BCF4		•	BCF			BL3		BCF6		FWD
	-						BB1			<b>-</b>				 B'	<b>-</b>						BB2						
													DEVEL DIMENSIO	OPED S	ECTION I												
		-		DT														DODA	Deca	DODA	DOED	DOED		52	52		
LINE	D 213A4	E 217A5	F 221A6	BT	BL1 81'-11 <sup>11</sup>	BL2	BL3	V1 1 11	V2	V3 2'-0 <sup>1</sup> 2	V4	V5	V6	V7 11 1	BB1	BB2	BCF1	BCF2		BCF4	BCF5	BCF6 46'-7 <sup>5</sup>	F1	F2	F3	F 4	F5
	214B4	21885	22286	-	5 78'-11 <sup>13</sup> 6 78'-11 <sup>13</sup>					1'-10 <sup>11</sup> 1'-10 <sup>16</sup>										$12 40'-9\frac{7}{8}$			1	1	15	1	1
3	215C4	219C5	223C6		1 8 77'-11 <sup>13</sup> 8 77'-11 <sup>13</sup>				_	1'-107									_	3 4 44'-8 <sup>5</sup>				1	212	1	1
4	216D4	22005	224D6	_	86′-11 <sup>7</sup>	_			-	1'-11 9								_	-	1 16 45'-7 4				12	28	2	2
						- <b>i</b>								l l							1			I			
																											ſ
	LINE	D	E	F	₩Т	WL1	WL2	WL3	H1	H2	НЗ	H	н5	м	B1	WB2	WCF1	WCF2	WCF3	WCF4	WCF5	WCF6					
	1	21384	217A5	221A6	237'-1 <mark>1</mark> 6	79'-5 <mark>8</mark>	76'-10 <sup>3</sup>	80'-9 <mark>1</mark> 6	13′-11 है	3 19′-3 <sup>7</sup>	6 21'-6	11 16 19′-	5 8 13'-4	1 <sup>1</sup> / <sub>8</sub> 119′	-7 <sup>3</sup> /11	7'-587	47'-5 <mark>8</mark>	32'-0 <sup>1</sup> 2	40'-1 <mark>9</mark>	36′-8 <sup>13</sup>	86'-1 <mark>9</mark>	44'-7 <sup>1</sup> 2					ŀ
	2	214B4	218B5		229'-0 <sup>3</sup>				-	-	_							37'-9 <mark>8</mark>									
	3	215C4	219C5								_									44'-7 <mark>9</mark> 3							ļ
_		216D4	22005	224D6	11	4 1	1	<b></b> 1					- 3	. 7	- 7	13	7	5		451-516 3	5						

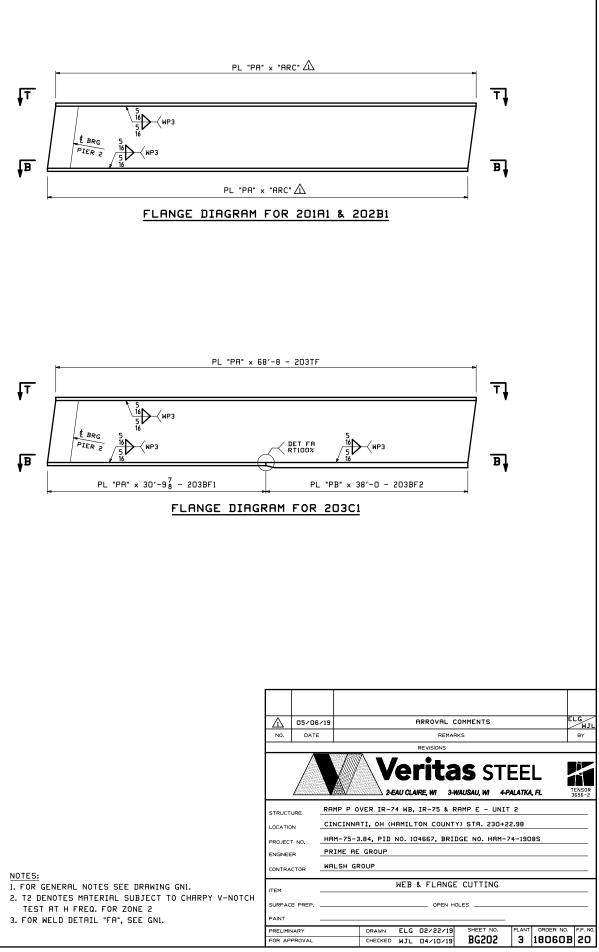




158 AM /users/jobs/3656-2





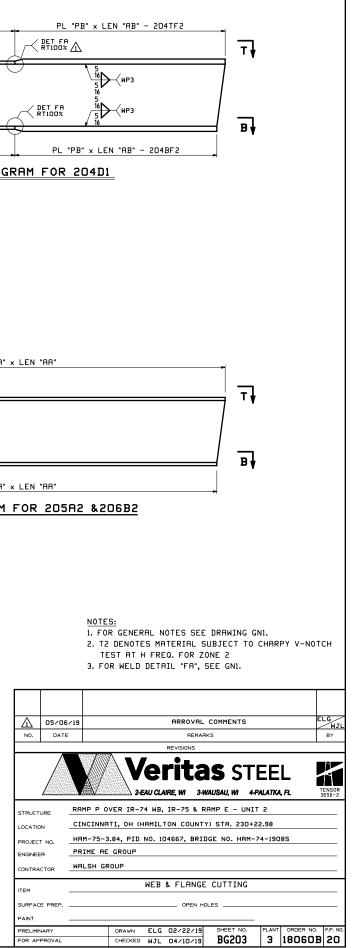


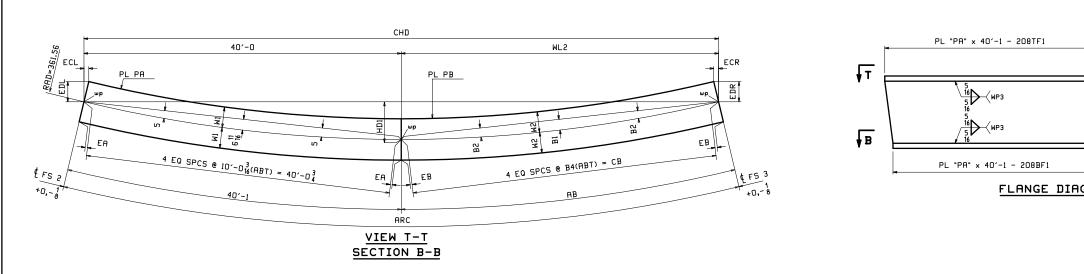
EFS 2 +0,-8 SECTION B-B FOR 203C1 BTM FLG

\$ F5 2

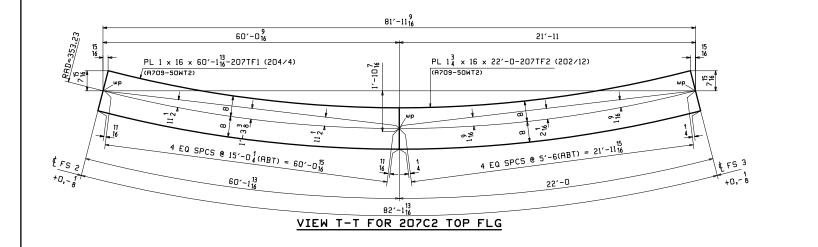
+0,- 8

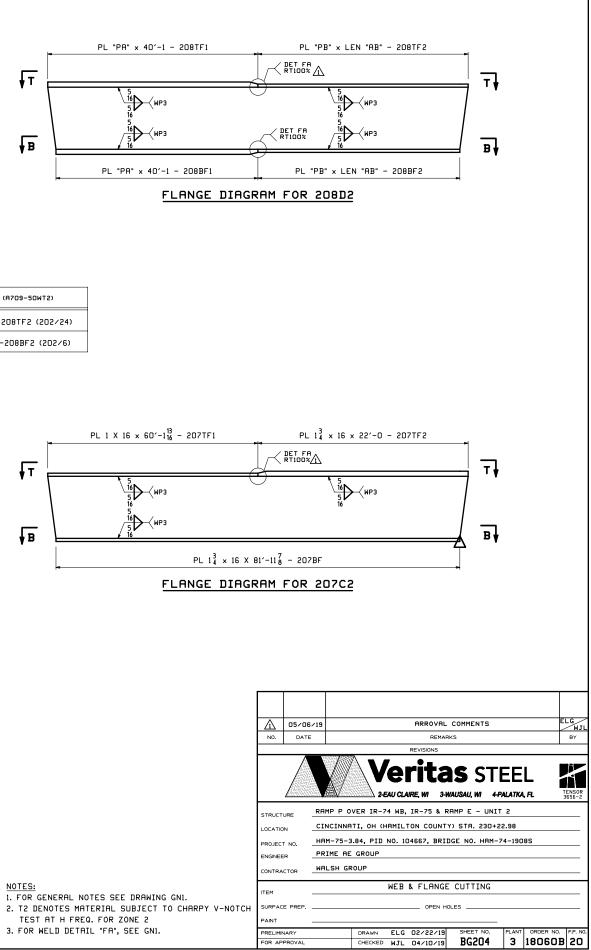
(a).		СНД				Ы	"PA" × LEN "AA" - 204TF1
	WL1			WL2	ECR	•	
	E BRG PL PA		PL PB			<b>↓</b> ⊤ /	<u> </u>
		•					16 5 16
. AL_		<u>اس</u> ع		Y	- 20	E BRG PIER 2	5 /5 / 5 / WP3
EA	3 6 00 K	5 19	4	5 16 A	EB	₩В	
	4 EQ SPCS @ A4(ABT)	= CA FA	EB 4 EQ	SPCS @ 9'- $D_{16}^{11}(ABT) = 36$	<u>5'-216</u> <u>4</u> F	PL	"PA" × LEN "AA" - 204BF1
	AA			36,-3		1 ),- 8	FLANGE DIAGRA
		ARC					
		VIEW T SECTION					
LOCATION	ARC CHD AA EA	A4 CA EB ECL ECR E	DL EDR WL1 W	.2 HD1 W1 W2	PL PA (A709-50WT2)	PL PB (A709-50WT2)	
204D1 TOP FI	$LG  65'-8\frac{1}{8}  65'-7\frac{1}{16}  29'-5\frac{1}{8}  \frac{3}{8}$	7'-4 <sup>1</sup> / <sub>4</sub> 29'-5 <sup>7</sup> / <sub>16</sub> <sup>13</sup> / <sub>16</sub> <sup>13</sup> / <sub>16</sub>	8 <sup>15</sup> <sub>16</sub> 8 <sup>15</sup> <sub>16</sub> 29′-4 <sup>5</sup> <sub>8</sub> 36′	-2 <sup>7</sup> <sub>16</sub> 1'-5 <sup>5</sup> / <sub>8</sub> 9 9	PL 1 <mark>8</mark> × 18-204TF1 (203∕4)	PL 2 × 18-204TF2 (201/28)	
204D1 BTM FI	$LG \begin{bmatrix} 65'-9^{13}_{16} & 65'-8^{3}_{4} & 29'-6^{13}_{16} & 9\\ 16 & & & \\ \end{bmatrix}$	$7'-4^{11}_{16}$ 29'-6 $^{11}_{16}$ 1 $^{11}_{16}$ 1 $^{1}_{4}$ 1 $^{1}_{4}$ 1'	-1 <sup>15</sup> <sub>16</sub> 1'-1 <sup>15</sup> <sub>16</sub> 29'-6 <sup>1</sup> / <sub>4</sub> 36'	-2 <sup>1</sup> / <sub>2</sub> 1'-5 <sup>3</sup> / <sub>4</sub> 1'-2 1'-2	PL 1 <sup>5</sup> / <sub>8</sub> × 28-204BF1 (202∕14)	PL 2 <sup>1</sup> / <sub>2</sub> × 28-204BF2 (201/6)	
		4 EQ SPCS =CHD					
	PL PA	4 0. 00 0.0					
						*	PL "PA" x L
	НЗ		H2			<b>↓</b> ⊤	<u>۴</u> 5
t FS 2	ł	œ_	1		t FS 3		16 5 16 16
€ FS 2 +0,- ¦		+			+0,-8		
		ARC				<b>↓</b> B	/ 5 / · · ·
		VIEW T-T SECTION B-B				,a	PL "PA" × LI
	LOCATION RAD ARC	CHD RR R1 R2 ECL	ECR EDL EDR	PL PA (A709-50WT2)			FLANGE DIAGRAM FO
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 15 15	1 × 16-205TF (203/18)	-		
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 15 15	1 × 16-205BF (203/20)	_		
	206B2 TOP FLG 344.89 76'-14 75			1 × 16-206TF (203/30)			
	206B2 BTM FLG 344.89 76'-0 75		7 15 15	1 × 16-206BF (203/30)			
					1		
€ <u>FS 2</u> +0,-1			TL			- 5 3 1	
· u, - 8					+	· · ·	
T T							Г
ب		9 16 × 78 × WX1 - WEB M	K (A709-50WT2)				
e, -e		↓ ↓ ↓	+ + +	<u> </u>		≈.	· · · · · · · · · · · · · · · · · · ·
•				CI1 CI2 CI3		<b>v</b>	F
		14 @ 5'-0 = 1	0		5 5   RD		
LE	a		BL			E	st
	<u>CAMBE</u>	TR DIAGRAM FOR 205A	2,206B2,207C2,2	08D2			LO
MARK	TL BL LE RE WX1	LD RD C1 C2 C3	C4 C5 C6	C7 C8 C9 C10	C11 C12 C13 C14	C15 WEB MK PG/LINE	PR
		$5'-6\frac{1}{16}$ $5'-6\frac{1}{16}$ $\frac{11}{16}$ $1\frac{1}{4}$ $1\frac{13}{16}$		2 <sup>15</sup> 2 <sup>15</sup> 2 <sup>7</sup> 2 <sup>11</sup>		11 16 205₩B 204/30	co
		$3'-0$ $3'-0$ $\frac{3}{8}$ 1 $1\frac{1}{2}$		$2^{7}_{16}$ $2^{1}_{2}$ $2^{7}_{16}$ $2^{1}_{4}$		5 206WB 205/4	ITE
		$\frac{5^{\prime}-11\frac{15}{16}}{7}\frac{5^{\prime}-11\frac{15}{16}}{7}\frac{15}{16}\frac{19}{16}\frac{28}{16}$		$3^{1}_{16}$ 3 $2^{15}_{16}$ $2^{11}_{16}$		11 16 207WB 204/26	SU PA
208D2 8	$0'-1\frac{7}{8}$ $79'-11\frac{3}{4}$ $1\frac{3}{16}$ $1\frac{5}{16}$ $80'-1\frac{7}{8}$	$4'-11\frac{7}{8}\begin{vmatrix}4'-11\frac{7}{8}\\16\end{vmatrix} = 1\frac{9}{16} = 2\frac{3}{16}$	2 <sup>5</sup> / <sub>8</sub> 3 3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub> 3 <sup>3</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>16</sub> 2 <sup>7</sup> / <sub>8</sub>	$2\frac{5}{8}$ $2\frac{1}{4}$ $1\frac{13}{16}$ $1\frac{1}{4}$	11 16 208WB 204/28	PR F0

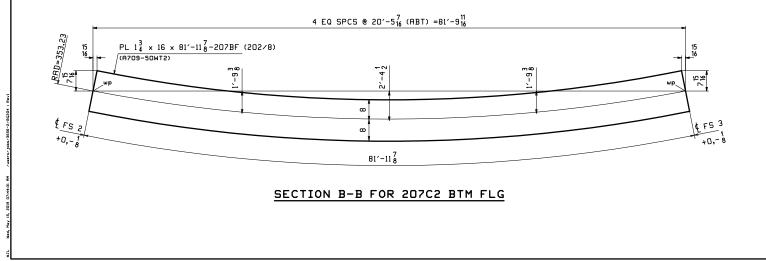


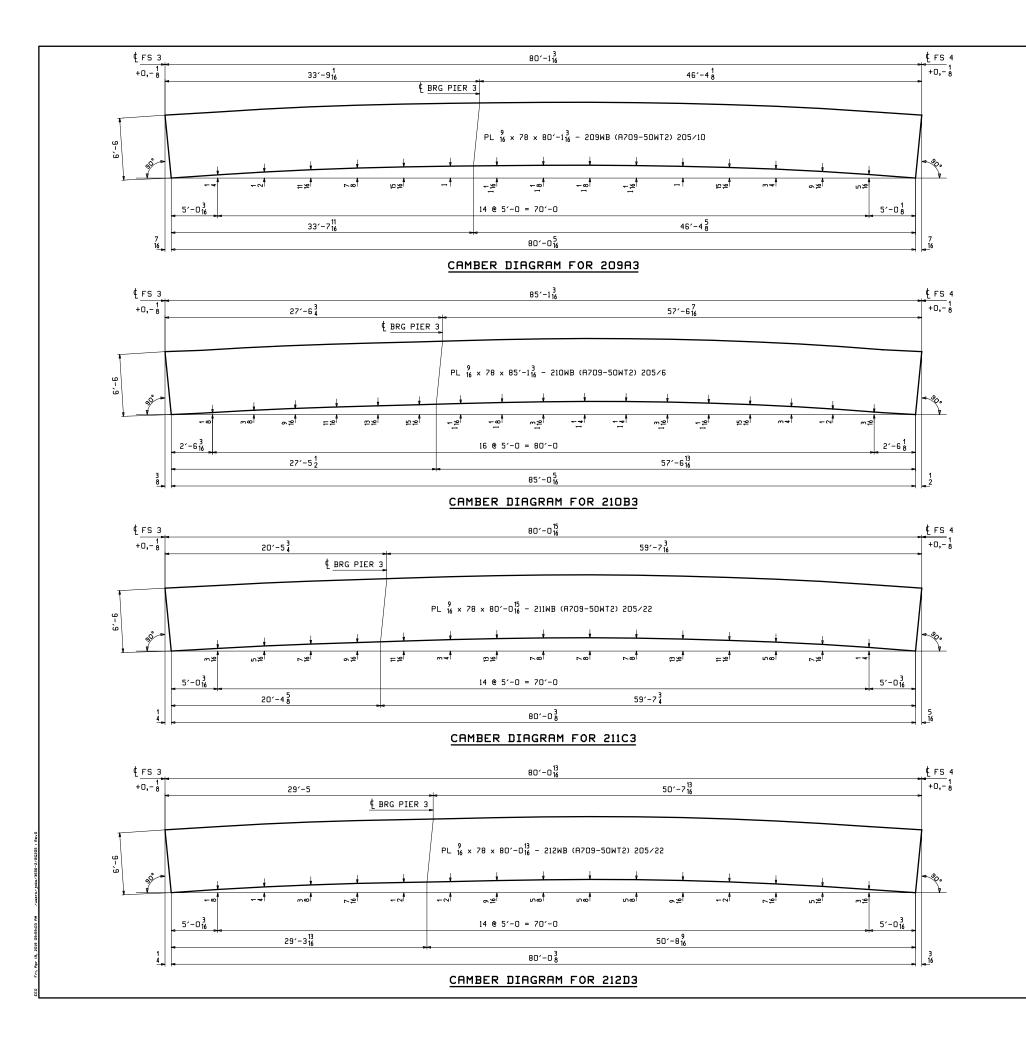


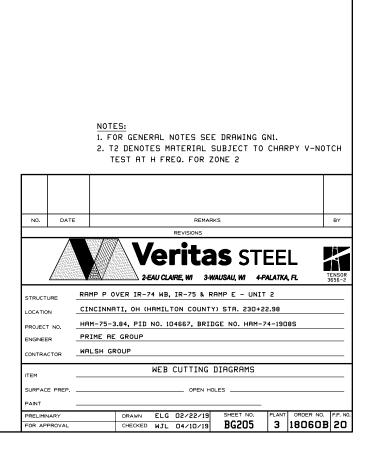
LOCATION	ARC	СНД	AB	EA	EB	B1	B2	B4	СВ	ECL	ECR	EDL	EDR	WL2	HD1	W1	W2	PL PA (8709-50WT2)	PL PB (A709-50WT2)
208D2 TOP FLG	80'-1 <mark>7</mark>	79'-11 <sup>15</sup>	40'-0 <mark>7</mark>	1 2	1 2	6 11 6 16	5	10'-0 <mark>3</mark>	40'-08	1	1	8 15 16	8 15 16	39′-11 <sup>15</sup>	2'-2 8	9	9	PL 2 × 18-208TF1 (201/26)	PL 1 <sup>3</sup> × 18-208TF2 (202∕24)
208D2 BTM FLG	79'-11 <mark>3</mark>	79'-9 <mark>13</mark>	39'-10 <mark>4</mark>	3 4	3 4	6 <mark>5</mark>	4 <mark>15</mark> 4 16	9'-11 <sup>5</sup>	39'-10 <mark>1</mark>	1 <mark>9</mark> 1 16	1 <mark>9</mark> 1 16	1′-1 <sup>15</sup>	1′-1 <sup>15</sup>	39′-9 <sup>13</sup>	2'-2 <sup>1</sup> 2	1'-2	1′-2	PL 2 <sup>1</sup> / <sub>2</sub> × 28-208BF1 (201/4)	PL 1 <sup>3</sup> / <sub>4</sub> × 28-208BF2 (202∕6)

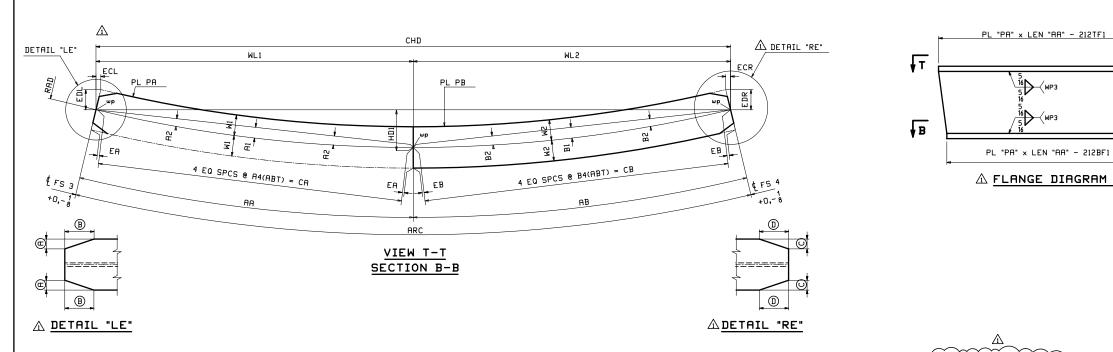




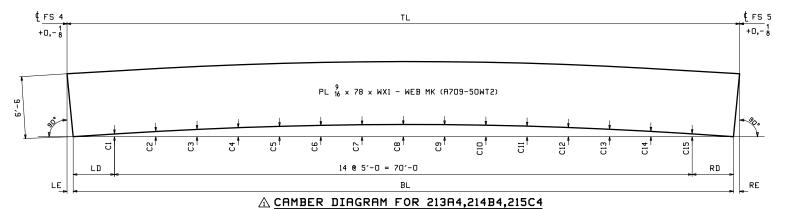




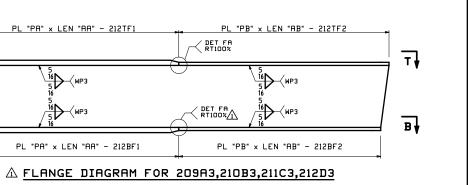




																							(	$\sim \sim$	$\sim$	$\sim$	$\sim$		
LOCATION	RAD	ARC	СНД	AA	AB	EA	A1	A2	R4	СА	EB	B1	B2	B4	СВ	ECL EC	REDL	EDR	WL1	WL2	HD1	W1	W2 (	) A	B	©	D	PL PA (A709-50WT2)	PL PB (A709-50WT2)
209A3 TOP FLG	336.56	80′-1 <mark>3</mark>	79'-10 <sup>15</sup>	54'-1 <mark>9</mark>	25'-11 8	5 8	1'-1 1 16	9 <sup>13</sup> 9 <sup>16</sup>	13'-6 <mark>3</mark>	54'-0 <mark>8</mark>	5 16	з	24	6'-5 <mark>8</mark>	25′-11 <mark>9</mark>	15 15 16 16	7 15 7 16	7 15 7 16	54'-08	25'-10 <mark>9</mark>	5 2'-1	8	8	60	O	0	o	PL 24 × 16-209TF1 (201/14)	PL 1 × 16-209TF2 (204/14)
209A3 BTM FLG	336.56	80'-0 <mark>5</mark>	79'-10 16	54'-0 <mark>8</mark>	26'-0 <mark>3</mark>	3 4	1'-1	9 <mark>3</mark>	13'-5 8	53'-11 <sup>7</sup>	3 8	з	24	6′-6	26'-08	1 1 1 116 116	8 <sup>15</sup> 816	8 15 8 16	53'-10 <sup>15</sup>	25'-11 8	2'-1	9	9	{ 1	2 <sup>1</sup> 2	1	22	) PL 2 <sup>1</sup> / <sub>2</sub> × 18-209BF1 (201/10)	PL 1 <sup>3</sup> × 18-209BF2 (202∕26)
210B3 TOP FLG	344.89	85'-1 <mark>3</mark>	84'-10 8	49'-18	35′-11 <sup>13</sup>	9 16	10 2	7 <mark>7</mark>	12'-34	49'-08	7 16	58	4 4	8'-11 8	35'-11 8	1 1	7 15 7 16	7 <mark>15</mark> 7 16	49'-016	35′-10 <mark>9</mark>	5 2'-6 <sup>11</sup>	8	8	{ o	O	0	0	PL 2 × 16-210TF1 (201/32)	PL 1 × 16-210TF2 (204∕10)
210B3 BTM FLG	344.89	85'-0 <mark>5</mark>	84'-94	49'-0 8	36'-0 <mark>3</mark>	9 16	107	7 <mark>13</mark> 7 16	12'-2 <sup>15</sup>	48'-11 8	7 16	58	4 4	9′-0	36'-0	1 1	7 <mark>15</mark> 7 16	7 <mark>15</mark> 7 16	48'-1016	35'-10 <mark>1</mark>	2'-6 <sup>11</sup> 16	8	8	. 0	O	0	o	PL 2 <sup>1</sup> / <sub>8</sub> × 16−210BF1 (201⁄20)	PL 1 × 16-210BF2 (204∕10)
211C3 TOP FLG	353.23	80'-0 <sup>15</sup>	79'-10 8	48'-14	31'-11116	7 8	9 13 9 16	7 <mark>3</mark>	12'-0 <mark>3</mark>	48'-013	9 16	4 <sup>5</sup> 16	34	7'-11 8	31'-11 <mark>9</mark>	12 12	1-01	1'-0 <sup>15</sup>	48'-0 <sup>3</sup>	31'-10 <sup>11</sup>	2'-2 8	1'-1	1'-1	5	1'-0 <sup>1</sup> 2	5	1'-0 1 2	PL 22 × 26-211TF1 (201/8)	PL 14 × 26-211TF2 (202/30)
211C3 BTM FLG	353.23	80'-08	79'-10 <mark>5</mark>	48'-0 8	32'-0 <mark>1</mark>	7 8	9 13 9 16	7 <sup>5</sup>	11'-11 <sup>15</sup>	47'-11116	9 16	4 <sup>3</sup> 8	з 4	8'-0	32'-0 <mark>8</mark>	12 12	1-010	1'-0 <sup>15</sup>	5 47'-11 <mark>1</mark>	31'-11 4	2'-2 <mark>1</mark> 6	1'-1	1'-1 }	5	1'-0 <sup>1</sup> 2	5	1'-0 1 2	PL 2 <sup>1</sup> / <sub>2</sub> × 26-211BF1 (201/8)	PL 14 × 26-211BF2 (202∕30)
212D3 TOP FLG	361.56	80'-0 <sup>13</sup>	79'-10 8	60'-1 <sup>1</sup> 2	19'-11 <sup>5</sup>	1 <mark>3</mark> 1 16	1'-3	11 4	15'-0 <mark>3</mark>	60'-0 <mark>11</mark>	3 8	185	14	4'-11116	19'-11 <mark>5</mark>	1 <sup>9</sup> 1 <sup>9</sup> 1 <sup>9</sup>	1'-116	1'-1 <sup>15</sup>	60'-0 <mark>7</mark>	191-107	1-78	1'-2	r-5	5	1'-0 <sup>1</sup> 2	5	1'-0 1 2	PL 2 <sup>1</sup> / <sub>2</sub> × 28-212TF1 (201/2)	PL 1 <sup>7</sup> / <sub>8</sub> × 28-212TF2 (202∕2)
212D3 BTM FLG	361.56	80'-08	79'-10 <mark>7</mark>	60'-0 <mark>5</mark>	20'-0 <mark>1</mark> 6	1 <sup>3</sup> 1 16	1'-2 <sup>15</sup>	11 <sup>3</sup> <sub>16</sub>	14'-11 8	59'-11 <sup>1</sup> / <sub>2</sub>	3 8	1 11 1 16	14	5'-0	20'-016	1 <sup>9</sup> 1 <sup>9</sup> 1 <sup>9</sup>	1'-116	1'-115	59'-11 <mark>4</mark>	19'-11 16	1-78	1'-2	r-5	0	O	5	1'-0 1 2	PL 2 <sup>1</sup> / <sub>2</sub> × 28-212BF1 (201∕2)	PL 2 × 28-212BF2 (201/22)
																								$\overline{}$					

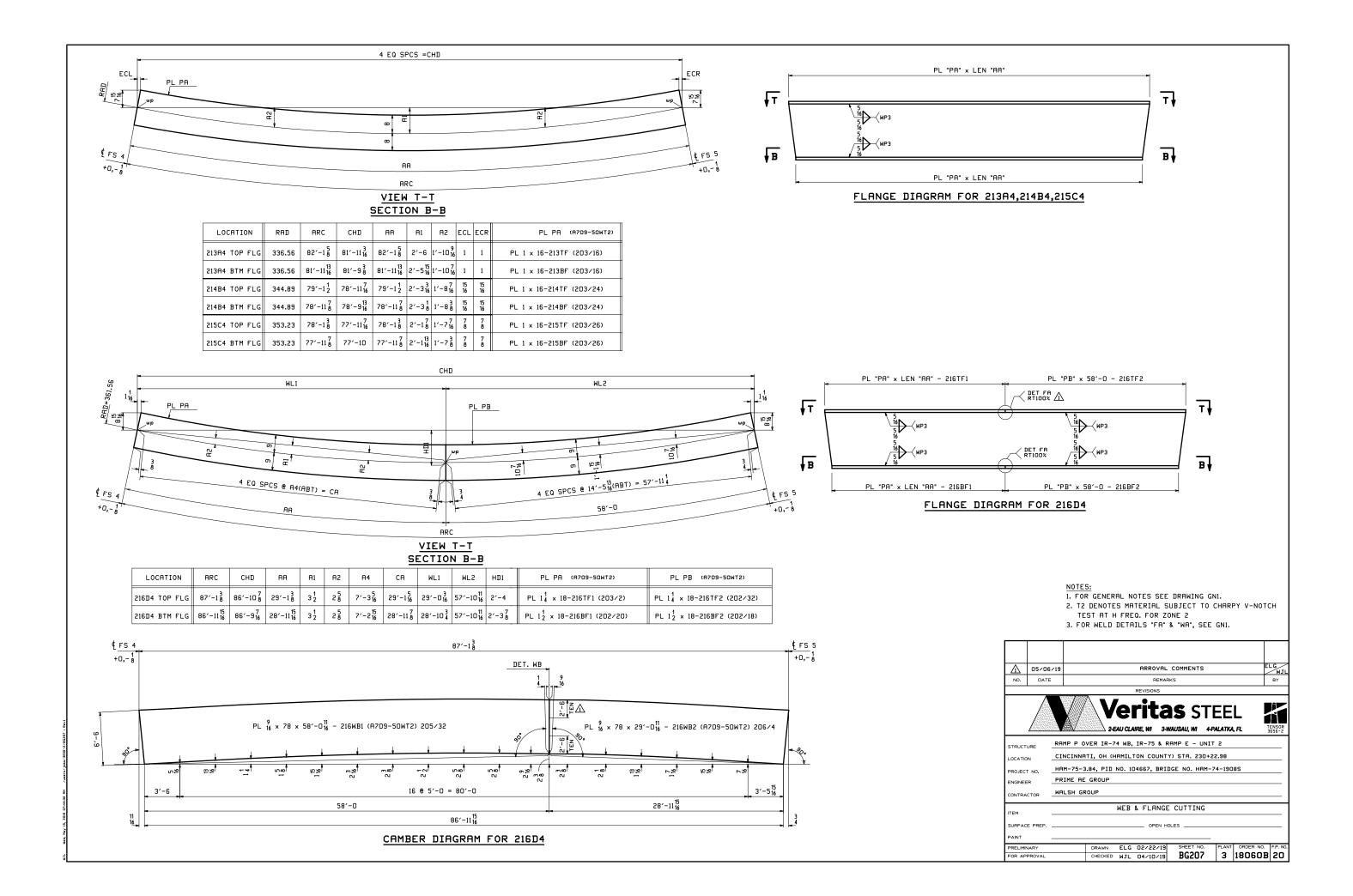


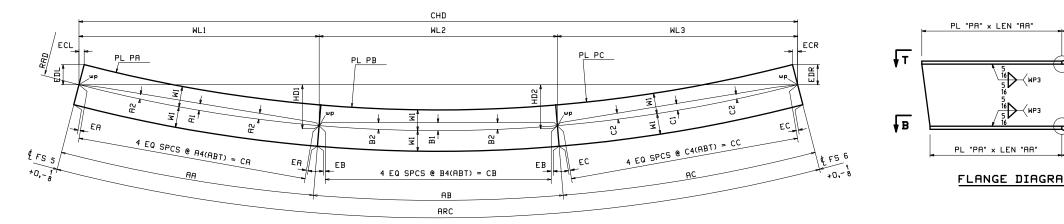
MARK	TL	BL	LE	RE	WX1	LD	RD	C1	С2	C3	C4	C5	C6	С7	C8	С9	C10	C11	C12	C13	C14	C15	WEB MK	PG∕LINE
213A4	82'-18	81'-11 <sup>13</sup>	15 16	7 8	82'-18	5'-11 8	5′-11 <sup>15</sup>	13 16	18	18	2 <sup>5</sup> 16	28	28	3	3 1 16	3 <mark>1</mark> 3 16	28	2 <sup>11</sup> 216	28	1 15 1 16	1 <mark>7</mark> 1 16	13 16	213WB	204/26
214B4	79'-1 <sup>1</sup> 2	78'-11 8	13 16	13 16	79'-1 <sup>1</sup> 2	4'-5 <sup>15</sup>	4'-5 <sup>15</sup>	1 2	1 1 1 16	1 <mark>9</mark> 1 16	1 15 1 16	24	2 <sup>7</sup> 16	2 <mark>9</mark> 2 16	28	2 <mark>9</mark> 2 16	2 <sup>7</sup> 16	24	1 15 1 16	1 <mark>9</mark> 1 16	1 1 1 16	1 2	214WB	204/32
215C4	78'-1 <mark>8</mark>	77'-11 8	3 4	3 4	78'-18	3′-11 <sup>15</sup>	3′-11 <sup>15</sup>	7 16	15 16	18	1 <sup>11</sup> 1 <sup>16</sup>	2	2 <mark>3</mark> 2 16	2 <sup>5</sup> 16	2 <sup>5</sup> 16	24	2 <mark>1</mark> 2 8	1 <sup>15</sup> 1 <sub>16</sub>	1 11 1 16	1 <sup>5</sup> 1 <sub>16</sub>	15 16	7 16	215WB	205/2



NOTES: 1. FOR GENERAL NOTES SEE DRAWING GN1. 2. T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TEST AT H FREQ. FOR ZONE 2 3. FOR WELD DETAIL "FA", SEE GN1.

	05/06/19	9		F	IPRROVAL	COMMENTS		E	LG WJL
N0.	DATE				REMA	RKS			BY
	•				REVISIONS				
						NAUSAU, WI 44			TENSOR 3656-2
STRUCT		AMP P O	VER IR-7	4 WB,	IR-75 & F	RAMP E - UNII	2		
LOCATIC	<sub>DN</sub> <u>C</u>	INCINNA	ті, он (н	AMIL1	ON COUNT	Y) STA. 230+2	2.98		
PROJEC	т NO	AM-75-3	1.84, PID	NO. 10	4667, BRI	DGE NO. HAM-	24-190	85	
ENGINEE		RIME AE	GROUP						
CONTRA	CTOR M	ALSH GF	ROUP						
ITEM				WEB	& FLANG	E CUTTING			
SURFAC	E PREP				OPEN H	OLES			
PAINT	_								
PRELIMI	NARY		DRAWN	ELG	02/22/19		PLANT		F.P. NO.
FOR AP	PROVAL		CHECKED	WJL	04/10/19	BG206	3	180603	20



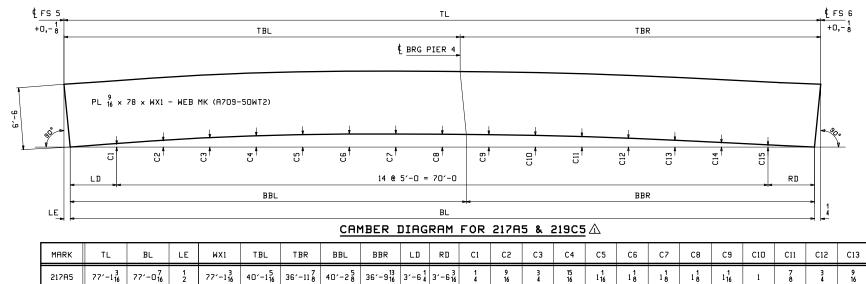




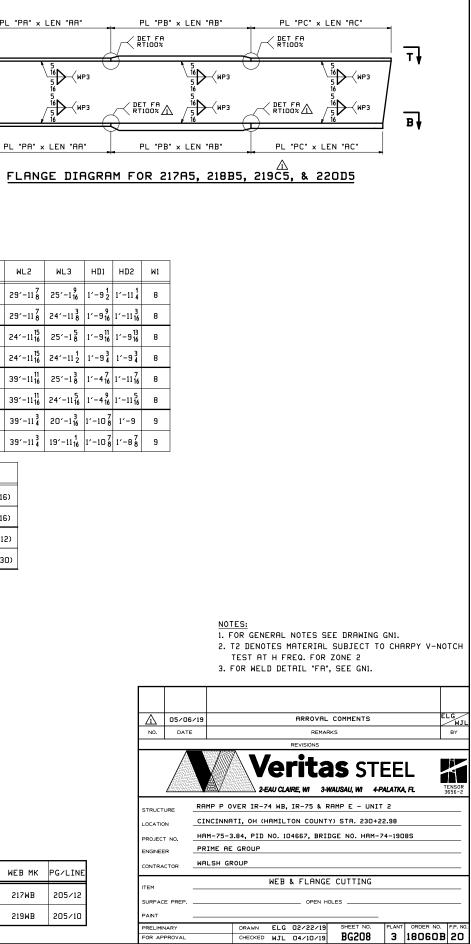
LOCATION	RAD	ARC	СНД	AA	AB	AC	EA	A1	A2	R4	CA	EB	B1	B2	B4	СВ	EC	C1	C2	C4	сс	ECL	ECR	EDL	EDR	WL1	WL2	WL3	HD1 H	1D2
217A5 TOP FLG	336.56	77'-1 <sup>3</sup>	76′-11 <sup>3</sup>	21'-1016	30'-0	25'-2 <sup>1</sup> 2	1	2 8	185	51-5 <sup>11</sup>	21'-10 8	3 8	4	3	7′-6	29'-11 8	5 16	2 <sup>13</sup> 2 <sup>16</sup>	2 <mark>1</mark>	6'-3 <sup>5</sup>	25'-2 <mark>7</mark>	15 16	15 16	7 15 7 16	7 15 7 16	21'-9 <sup>3</sup>	29'-11 8	25'-1 <mark>9</mark>	1'-9 <sup>1</sup> / <sub>2</sub> 1'	-11 4
217A5 BTM FLG	336.56	77'-0 <mark>7</mark>	76'-10 <sup>7</sup>	22'-0 <sup>1</sup> 8	30'-0	25'-0 <mark>5</mark>	1 4	2 <mark>3</mark> 2 16	185	5′-6	22'-0 <mark>1</mark> 6	3 8	4	3	7′-6	29'-11 8	5 16	2 13 2 16	2 1 2 16	6'-3 <mark>1</mark> 6	25'-04	15 16	15 16	7 15 7 16	7 15 7 16	21'-11 <mark>3</mark>	29'-11 8	24'-118	1'-9 <sup>9</sup> 16 1'	-11 10
218B5 TOP FLG	344.89	75'-1 <mark>1</mark>	74'-11 <sup>5</sup>	24'-10 8	25'-0	25'-2 <sup>7</sup> 16	5 16	2 <sup>11</sup> 2 <sup>16</sup>	2	6'-28	24'-10 <mark>9</mark>	5 16	2 <sup>11</sup> 2 <sup>16</sup>	2 <mark>1</mark> 2 16	6′-3	24'-11 <sup>15</sup>	5 16	24	2 <mark>1</mark> 2 16	6'-38	25'-28	7 8	7 8	7 15 7 16	7 15 7 16	24'-9 <mark>4</mark>	24'-1115	25'-18	1'-916 1'	-9 <sup>13</sup>
218B5 BTM FLG	344.89	75'-08	74'-10 8	25'-0 <mark>1</mark> 6	25'-0	25'-0 <mark>5</mark>	5 16	2 11 2 16	216	6′-3	25'-0	5 16	2 11 2 16	2 <mark>1</mark> 2 16	6′-3	24'-1115	5 16	24	2 <mark>1</mark> 2 16	6'-3 <mark>1</mark> 6	25'-0 <b>1</b>	7 8	7 8	7 <mark>15</mark> 7 16	7 <mark>15</mark> 7 16	24'-11 <sup>3</sup>	24'-1115	24'-112	1'-94 1'	′-9 <mark>3</mark>
219C5 TOP FLG	353.23	80'-116	79′-11	14'-1016	40'-0	25'-28	3 16	15 16	11 16	3'-8 <sup>11</sup> 16	14'-10 <sup>11</sup> 16	7 16	6 13 16	5 <mark>1</mark> 5 16	9'-11 <sup>15</sup>	39'-11 4	5 16	2 <sup>11</sup> 2 <sup>16</sup>	2	6'-3 <mark>9</mark>	25'-2 <mark>5</mark>	7 8	7 8	7 15 7 16	7 15 7 16	14'-9 <sup>15</sup>	39'-11116	25'-18	1'-4716 1'	-117
219C5 BTM FLG	353.23	80'-03	79'-10 <mark>5</mark>	15'-0 8	40'-0	25'-0 <mark>4</mark>	3 16	15 16	11 16	3′-9	15'-0 <mark>8</mark>	7 16	6 13 16	5 <mark>1</mark> 5 16	9'-11 <sup>15</sup>	39'-114	5 16	2 11 2 16	2	6'-3 <mark>1</mark> 6	25'-0 <mark>3</mark>	7 8	7 8	7 <mark>15</mark> 7 16	7 15 7 16	14'-11 <sup>5</sup>	39'-11 <sup>11</sup>	24'-115	1'-4 <sup>9</sup> <sub>16</sub> 1'	-115
220D5 TOP FLG	361.56	83'-18	82'-10 <sup>15</sup>	22'-11	40'-0	20'-2 8	5 16	2 <sup>3</sup> 16	18	5'-84	22'-10 <sup>15</sup>	1 2	6 <mark>8</mark>	5	9'-11 <sup>15</sup>	39'-11 4	1 4	11 1 16	14	5'-0 <sup>1</sup> 2	20'-2 <mark>1</mark> 6	1 1 1 16	1 1 1 16	8 15 16	8 15 8 16	22'-10	39'-11 4	20'-13	1'-10 8 1	9
220D5 BTM FLG	361.56	83'-0 <sup>5</sup>	82'-10 8	23'-0516	40'-0	20'-0	5 16	2 <mark>3</mark> 2 16	185	51-9 <mark>1</mark> 6	23'-0 <b>1</b>	1 2	6 <mark>5</mark>	5	9'-11 <sup>15</sup>	39'-11 4	1	1 11 1 16	14	5'-0	20'-0	1	1	8 15 16	8 <sup>15</sup> 16	22'-115	39'-11 4	19'-11 16	1'-10 8 1'	-88

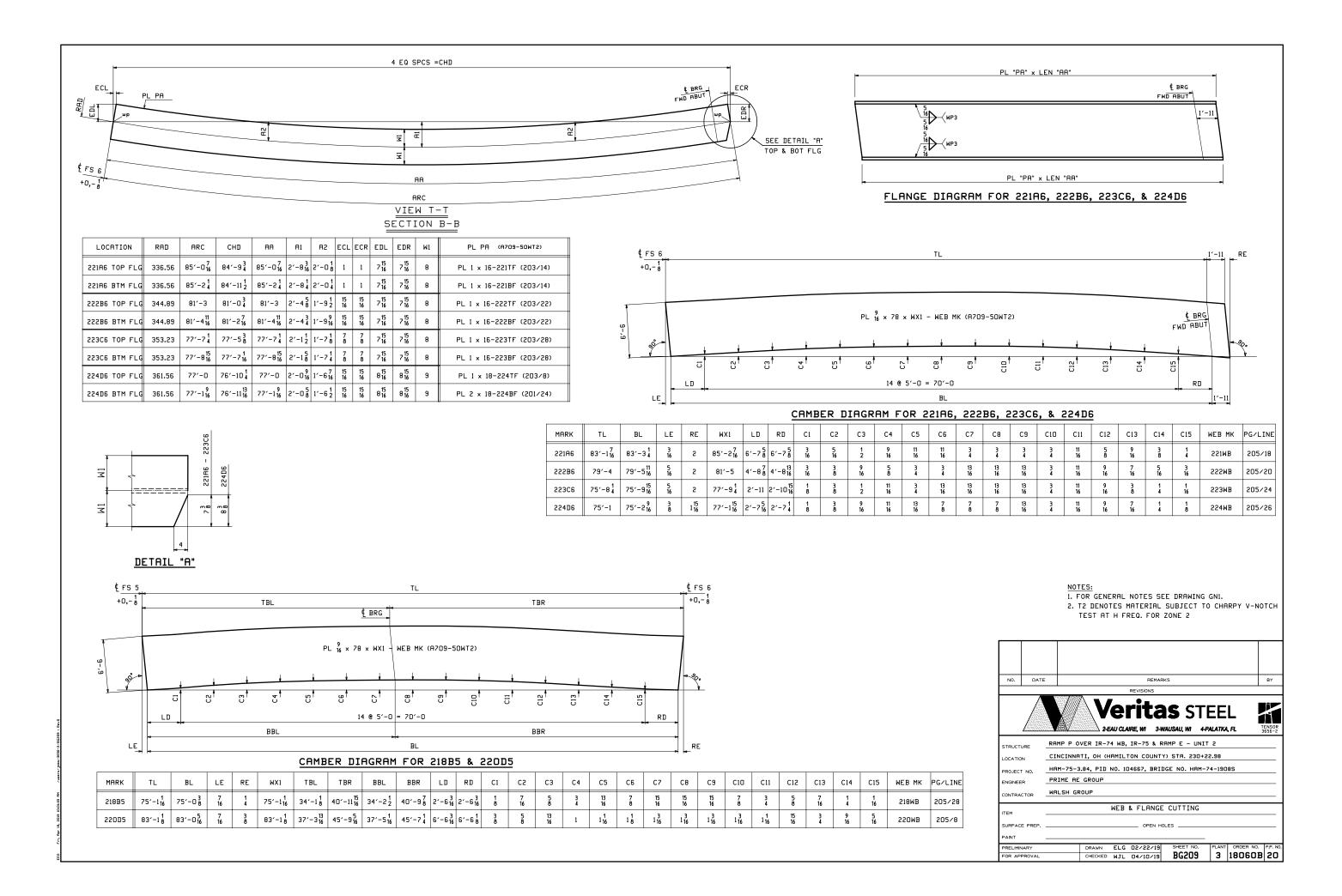
LOCATION	PL PA (A709-50WT2)	PL PB (A709-50WT2)	PL PC (A709-50WT2)
217A5 TOP FLG	PL 1 × 16-217TF1 (204/22)	PL 12 × 16-217TF2 (202/22)	PL 1 × 16-217TF3 (204/16)
21785 BTM FLG	PL 1 × 16-217BF1 (204/20)	PL 1 <sup>7</sup> <sub>8</sub> × 16-217BF2 (202∕4)	PL 1 × 16-217BF3 (204/16)
218B5 TOP FLG	PL 1 × 16-218TF1 (204∕18)	PL 1 <sup>1</sup> / <sub>8</sub> × 16-218TF2 (203∕6)	PL 1 × 16-218TF3 (204/16)
21885 BTM FLG	PL 1 × 16-218BF1 (204/16)	PL 1 <sup>5</sup> / <sub>8</sub> × 16−218BF2 (202/16)	PL 1 × 16-218BF3 (204/16)

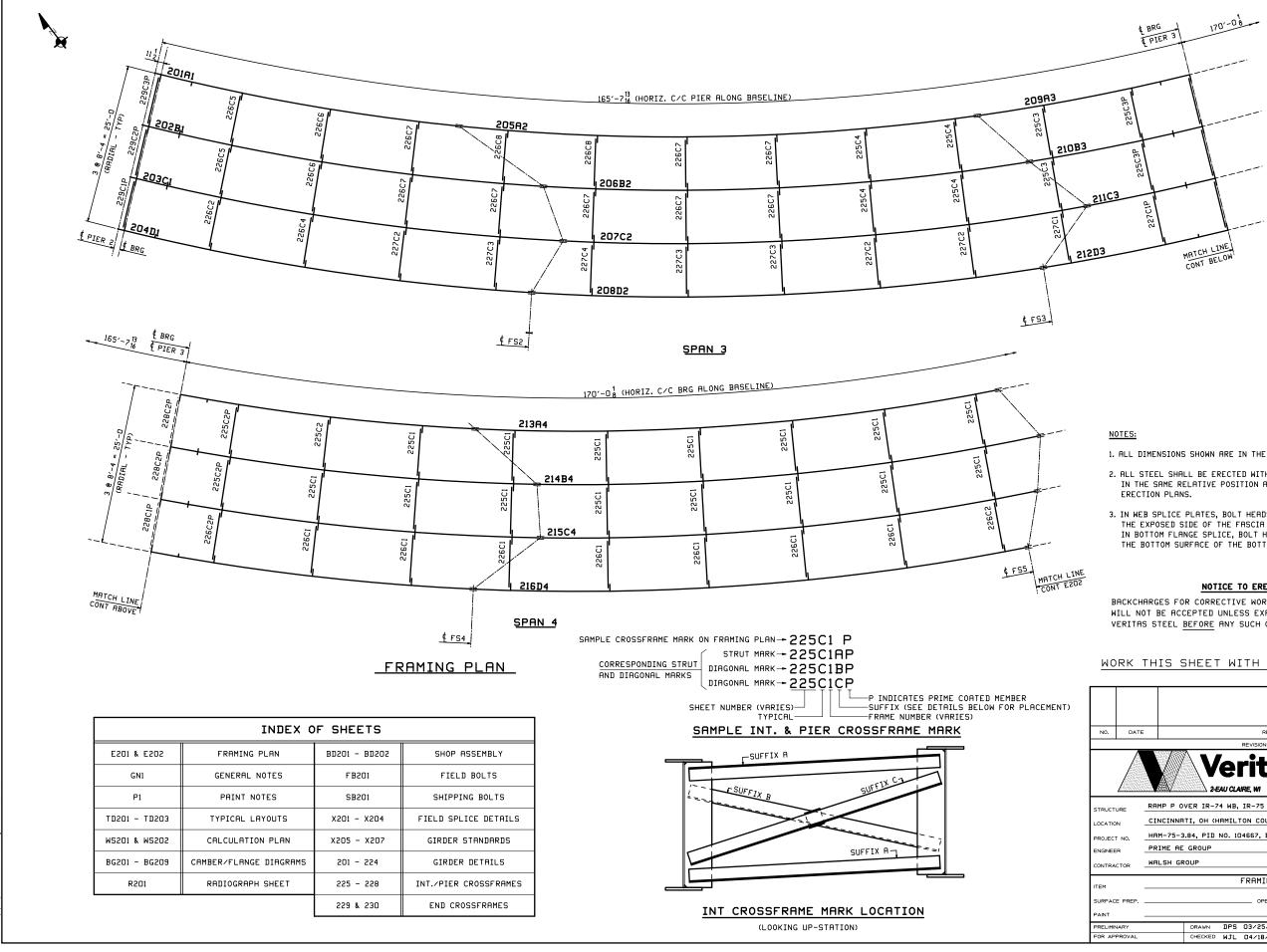
LOCATION	PL PA (A709-50WT2)	PL PB (A709-50WT2)	PL PC (A709-50WT2)
219C5 TOP FLG	PL 1 × 16-219TF1 (204/24)	PL 24 × 16-219TF2 (201/16)	PL 1 × 16-219TF3 (204/16)
219C5 BTM FLG	PL 1 × 16-219BF1 (204/24)	PL 2 <sup>1</sup> / <sub>2</sub> × 16-219BF2 (201/12)	PL 1 × 16-219BF3 (204/16)
220D5 TOP FLG	PL 1 × 18-220TF1 (203/10)	PL 2 x 18-220TF2 (201/26)	PL 1 x 18-220TF3 (203/12)
220D5 BTM FLG	PL 1 <sup>3</sup> / <sub>8</sub> × 18-220BF1 (202/28)	PL 2 <sup>1</sup> / <sub>8</sub> × 18-220BF2 (201/18)	PL 2 × 18-220BF3 (201/30)



MARK	TL	BL	LE	WX1	TBL	TBR	BBL	BBR	LD	RD	C1	C2	С3	C4	C5	C6	C7	C8	С9	C10	C11	C12	C13	C14	C15	WEB MK	PG∕LINE
217A5	77'-1 <sup>3</sup>	77'-0 <mark>7</mark>	1 2	77'-1 <sup>3</sup>	40'-1 <mark>5</mark>	36′-11 <mark>8</mark>	40'-285	36′-9 <sup>13</sup>	3′-6 <mark>4</mark>	3′-6 <sup>3</sup> 16	1 4	9 16	3 4	15 16	1 1 1 16	18	1 <mark>1</mark>	1 <mark>1</mark> 1 8	1 1 1 16	1	7 8	3 4	9 16	3 8	1 8	217WB	205/12
219C5	80'-1 <mark>1</mark> 6	80'-03	7 16	80'-1 <mark>1</mark> 6	35′-2 <sup>3</sup>	44'-10 <sup>11</sup> 16	35′-3 <sup>3</sup> 4	44′-8 <sup>5</sup>	5′-0 <mark>3</mark>	5'-0 <mark>3</mark>	5 16	9 16	3 4	7 8	1	1 <mark>1</mark> 1 16	1 <mark>1</mark> 1 8	1 <mark>1</mark> 1 8	1 <mark>1</mark> 1 8	1 1 1 16	1	7 8	11 16	7 16	1 4	219WB	205/10







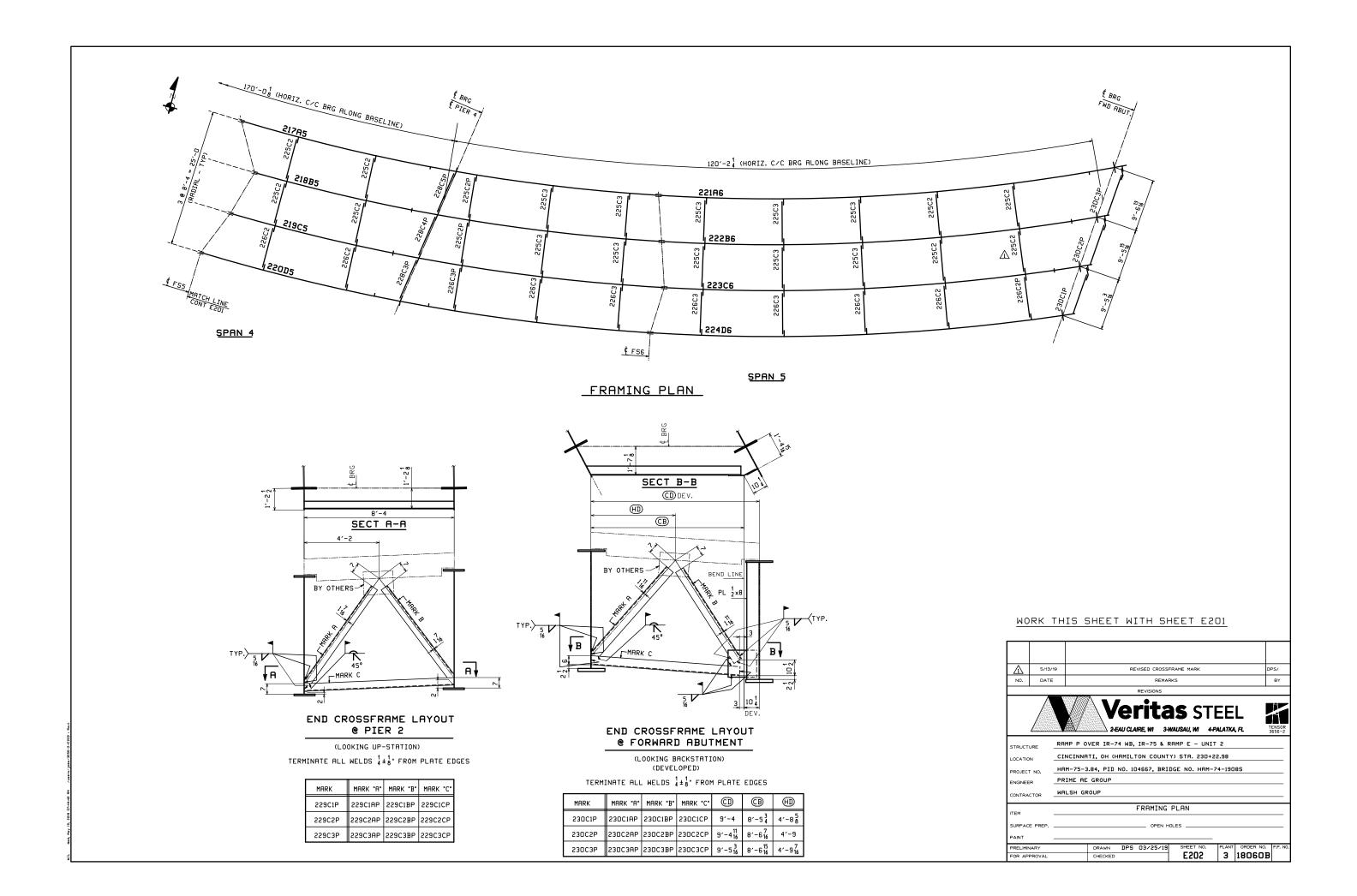
- 1. ALL DIMENSIONS SHOWN ARE IN THE HORIZONTAL PLANE.
- 2. ALL STEEL SHALL BE ERECTED WITH THE SHIPPING MARK IN THE SAME RELATIVE POSITION AS SHOWN ON THE
- 3. IN WEB SPLICE PLATES, BOLT HEADS SHALL BE PLACED ON THE EXPOSED SIDE OF THE FASCIA GIRDERS. IN BOTTOM FLANGE SPLICE, BOLT HEADS SHALL BE PLACED ON THE BOTTOM SURFACE OF THE BOTTOM FLANGE SPLICE PLATES.

#### NOTICE TO ERECTOR

BACKCHARGES FOR CORRECTIVE WORK OR REPLACED MATERIALS WILL NOT BE ACCEPTED UNLESS EXPRESSLY AUTHORIZED BY VERITAS STEEL BEFORE ANY SUCH COSTS ARE INCURRED.

#### WORK THIS SHEET WITH SHEET E202

N0.	DATE				REMA	RKS			BY
					REVISIONS				
			V	e	rita	AS ST	EE		ł
	<b>V</b>	VEN/	<u>2-E</u>	AU CLA	IRE, WI 3-1	WAUSAU, WI 4-F	ALATKA	, FL	TENSOR 3656-2
STRUCT	URE	RAMP P C	VER IR-7	4 WB,	IR-75 &	RAMP E - UNIT	2		
LOCATIO	N	CINCINN	аті, он (н	AMIL1	гом соимт	Y) STA. 230+2	2.98		
PROJECT	T NO.	HAM-75-3	3.84, PID	NO. 10	)4667, BRI	DGE NO. HAM-7	4-190	85	
ENGINEE	R	PRIME A	GROUP						
CONTRA	CTOR	WALSH G	ROUP						
<u> </u>					FRAMING	PLAN			
ITEM									
SURFAC	E PREP.				OPEN H	OLES			
PAINT									
PRELIMIN	NARY		DRAWN	DPS	03/25/19		PLANT		F.P. NO
FOR AP	PROVAL		CHECKED	WJL	04/18/19	E201	3	18060E	3



	FIELD NO REG'D.			BOLTS	♦ OF			325 T				-n	MASH	DIFCER CONNECTED OUD DEVOLVO
INE	REQ'D.	DIAM.	LEN.	CONN.	CONN.	GRIP	ТНІ	CKNES	S OF P	cs. co	NNECTE		CODE	PIECES CONNECTED AND REMARKS
1														FIELD SPLICE 5,6 @ G1-3,
2						_			12					2 @ G1-2, 4 @ G2
3	432	14	4 <sup>1</sup> <sub>2</sub>	48	9	22	11 16	1	13 16				1	Top Flg Splice
4	702	14	з.	78	9	116	8	9 16	8				1	Web Splice
5	432	14	5 <sup>1</sup> <sub>2</sub>	48	9	3 <sup>7</sup> 16	116	1	18				1	Btm Flg Splice
6														
7														FIELD SPLICE 3 @ G2
8	48	14	5 <sup>1</sup> 2	48	1	32	11 16	2	13 16				1	Top Fig Splice
9	78	14	з 1	78	1	1 <sup>5</sup> 1 <sub>16</sub>	3 8	9 16	3 8				1	Web Splice
10	48	14	6 <sup>1</sup> <sub>2</sub>	48	1	4 <mark>9</mark> 4 16	1 <sup>5</sup> 116	28	18				1	Btm Flg Splice
11														
12														FIELD SPLICE 5 @ G4
13	48	14	44	48	1	23	11 16	14	13 16				1	Top Fig Splice
14	78	14	з 4	78	1	1 <sup>5</sup> 116	8 8	9 16	3 8				1	Web Splice
15	48	14	6	48	1	3 <sup>15</sup> 3 <sup>16</sup>	1 <sup>5</sup> 116	12	18				1	Btm Flg Splice
16														
17														FIELD SPLICE 3 @ G1
18	48	14	5 1 2	48	1	34	11 16	21	13 16				1	Top Fig Splice
19	78	14	34	78	1	1 <sup>5</sup> 1 <sup>16</sup>	38	9 16	38				1	Web Splice
20	48	11	- 4	48	1	4 15 4 16	116	2 2	18				1	Btm Flg Splice
21						10	- 10	. 2	- 3					
22														FIELD SPLICE 4 @ G1
23	48	14	4 <sup>1</sup> <sub>2</sub>	48	1	2 2	11 16	1	13 16				1	Top Flg Splice
24	78	14	ч <u>2</u> з¦	78	1	1 <sup>5</sup> 1 <sup>5</sup>	16 3 8	9	10 3 8				1	Web Splice
_	48	14 14				<sup>116</sup> 3 <sup>13</sup> 3 <sup>16</sup>	8 15 16	16 1 8	8 18				1	Btm Flg Splice
25	40	14	6	48	1	3 16	116	18	18				ŀ	Dem rig Sprice
26													-	FIELD SPLICE 2 @ G4
27		. 1	- 1			. 1	.1	_	. 3				-	
28	96	14	62	96	1	4 <sup>1</sup> / <sub>2</sub>	18	2	18				1	Top Fig Splice
29	78	14	32	78	1	116	9 16	9 16	9 16 3				1	Web Splice
30	96	14	72	96	1	5 <sup>1</sup> <sub>2</sub>	18	22	18				1	Btm Flg Splice
31														
32						_	_							FIELD SPLICE 3 @ G3
33	96	14	7	96	1	54	18	22	18				1	Top Flg Splice
34	78	14	34	78	1	1 13 1 16	8	9 16	8				1	Web Splice
35	96	14	72	96	1	5 <sup>1</sup> 2	18	22	18				1	Btm Flg Splice
36														
37							_							FIELD SPLICE 4 @ G3
38	96	14	6	96	1	4	18	14	18				1	Top Flg Splice
39	78	14	34	78	1	1 13 1 16	5 8	9 16	8				1	Web Splice
40	96	14	6	96	1	4 4	18	14	18				1	Btm Flg Splice
41														
42														FIELD SPLICE 4 @ G4
43	96	14	6 1 2	96	1	4 <mark>5</mark>	18	18	18				1	Top Flg Splice
44	78	14	34	78	1	1 13 1 16	5 8	9 16	5 8				1	Web Splice
45	96	14	7	96	1	5	18	2	18				1	Btm Flg Splice
46														
47														FIELD SPLICE 3 @ G4
48	96	11	7	96	1	5	18	2 2	1 8				1	Top Fig Splice
49	78	14	3 <sup>3</sup>	78	1	1 15 1 16	11 16	9 16	11 16			l	1	Web Splice
50	96	14	712	96	1	5 1 5 2	18	212	18				1	Btm Flg Splice
51		-	-	_		-	Ē	-	L .					
52													F	FIELD SPLICE 2 @ G3
53	48	14	4 1 2	48	1	2 2	11 16	1	13 16				1	Top Fig Splice
		14 14	42 34			2 2 1 16	16 3 8	1 9 16	16 3 8	-			1	Web Splice
54	78	14 14		78	1	1 <sub>16</sub> 4 <sub>16</sub>	-	16 1 4	8 18	-	-	-	1	
55	48	-14	6	48	1	<sup>++</sup> 16	116	14	18	-			⊢'	Btm Flg Splice
56										-		-	-	
57		1	. 1			_ 1	11		17				<u> </u> .	FIELD SPLICE 6 @ G4
58	48	14	4 <sup>1</sup> / <sub>2</sub>	48	1	22	11 16	1	13 16				1	Top Fig Splice
59	78	14	34	78	1	1 <sup>5</sup> 16	3	9 16					1	Web Splice
60	48	14	62	48	1	4 16	116	2	18				1	Btm Flg Splice

	FIELD						A-	190 T	ype 3	9 B(	DLTS			
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS	OF CONN.	GRIP	тні	CKNES	5 OF P	cs. co	NNECTE	D	CODE	PIECES CONNECTED AND REMARKS
61														INT CROSSFRAME - CF2
62	312	14	Э	8	39	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
63	312	14	з	8	39	1	1 2	1 2					2	DIAG-STIFF
64	39	14	3 <sup>1</sup> <sub>2</sub>	1	39	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
65														
66														INT CROSSFRAME - CF3
67	372	14	з	12	31	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
68	372	14	З	12	31	1	1 2	1 2					2	DIAG-STIFF
69	31	14	32	1	31	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
70														
71														INT CROSSFRAME - CF4
72	128	14	з	16	8	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
73	128	14	з	16	8	1	1 2	1 2					2	DIAG-STIFF
74	8	14	3 <sup>1</sup> 2	1	8	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
75														
2: 2	Hard	Flat	Was	hers			ŀ	NASH	IER	COD	ES			

	FIELD						A490	Type	3 F1	136 F	INNEX	A1		
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS	OF CONN.	GRIP	THI	CKNES	5 OF P	cs. co	NNECTE	D	CODE	PIECES CONNECTED AND REMARKS
76														INT CROSSFRAME - CF2
77	56	14	з	8	7	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
78	56	14	з	8	7	1	1 2	1 2					2	DIAG-STIFF
79	7	14	3 2	1	7	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
80														
81														INT CROSSFRAME - CF3
82	48	14	з	12	4	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
83	48	14	з	12	4	1	1 2	1 2					2	DIAG-STIFF
84	4	14	3 <sup>1</sup> 2	1	4	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
85														
86														INT CROSSFRAME - CF4
87	16	14	з	16	1	1	1 2	1 2					2	TOP/BTM STRUT-STIFF
88	16	14	з	16	1	1	1 2	1 2					2	DIAG-STIFF
89	1	14	3 2	1	1	12	1 2	1 2	1 2				2	DIAG-FILL PL-DIAG
90														
91														PIER 3 CROSSFRAME - CF4
92	48	14	44	16	Э	28	1 2	18					2	TOP/BTM STRUT-STIFF
93	48	14	44	16	з	28	1 2	18					2	DIAG-STIFF
94	3	14	44	1	з	2 5	1 2	18	1 2				2	DIAG-FILL PL-DIAG
95														
96														PIER 4 CROSSFRAME - CF4
97	48	14	4 4	16	з	28	1 2	18					2	TOP/BTM STRUT-STIFF
98	48	14	41	16	Э	28	1 2	18					2	DIAG-STIFF
99	3	14	44	1	з	2 8	1 2	18	1 2				2	DIAG-FILL PL-DIAG

(CONNECTIONS TO PAINTED GIRDER CONNECTION PLATES ONLY)

ROT'L CAPACITY TEST REQ'D

Ň E	MARK	NO. OF	ASS'Y MARK				1ATERIAL	_		
	THERE	PCS.	TITIKK	SHAPE	LEN FT.	IGTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	
1				FIELD BOLTS					5% + 5 ADDED	
2		057		1			A490-3	210	(ACTUAL COUNT) (240) ASTM F1136 ANNE	хө
3			bpk6 bpn6	14 Ø HSB	0	3 32	A49D-3	210 7	012) ASTM F1136 ANNEX	81
5			bpv6	14 Ø HSB	0	44	A49D-3	210	(192) ASTM F1136 ANNE>	FP: ( AI FP:
6			ыру6	1 ¢ HSB	D	44	A490-3	210	(6) ASTM F1136 ANNEX (	Al FP:
7		986	wg6	14 Ø HSW			F436-3	210 28	(900) ASTM F1136 ANNE	FP:
8		493	ng6	14 Ø HHN			A563 DH:		(450) ASTM F1136 ANNE:	X R FP:
9							A490-3	211		
10			bpk6	1 Ø HSB	0	3 32	R490-3	5	1	FP:
11 12		3584	bpn6 wa6	1 # # HSB 1 # # HSW	0	32	F436-3	211 7	1	FP:
13		1792		1 ¢ HHN			A563 DH:	211 /		FP:
14			Ŭ							
15		1234	bpm6	14 Ø HSB	0	34	A325-3	212 6	(1170)	FP:
16		87	bpn6	14 Ø HSB	D	32	A325-3 A325-3	212 7	(78)	FP:
17			6 ррб	14 Ø HSB	0	34	H325-3 H325-3	212 8		FP:
18			bpw6	14 Ø HSB	0	4 <sup>1</sup> / <sub>2</sub> 4 <sup>3</sup> / <sub>4</sub>	A325-3	6.2		FP:
19 20			bpy6 btc6	14 Ø HSB 14 Ø HSB	0	44 52	A325-3	612		<u>FP:</u>
20			btf6	14 Ø HSB 14 Ø HSB	0	52 6	A325-3	212 15		FP:
22			btg6	1 Ø HSB	0	6 1 6 2	A325-3	212 18		FP:
23			btk6	1 Ø HSB	0	7	A325-3	212	1	FP:
24			btm6	14 Ø HSB	0	72	A325-3 A325-3	212 20		FP:
25		4163		14 Ø HSW				212 28		FP:
26		4163	ng6	14 Ø HHN	-		DH:	212 29	(3960)	FP
27 28			<u> </u>		+					
58					1					
30										_
31										
32										
33										
34										
35 36										
37										
38										
39										
	_	RAL N	NOTES S	SEE SHEET (	SN1.					
	GENER	14/19	NOTES :	REVI	) PER		OVAL COMMEN		E60	
FOR	GENER	14/19 24/19	NOTES S	REVI	) PER	IFF T	HICKNESS @ I		EEO	W.
_	GENER	14/19		REVI	) PER	REM				W.
		14/19 24/19 ATE RFF C: HI PF	AMP P O	REV'I BR REV'D BR VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	PER REVIS	IFF T REM/ BIONS <b>U</b> 3 75 & COUN	HICKNESS @ H ARKS BSSS WAUSAU, W RRMP E - UM TY) STR. 230	PIER 4		W. Y
		14/19 24/19 ATE RFF C: HI PF	AMP P O	REV'I BR REV'D BR VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	) PER REVIS REVIS AIRE, M , IR-7	IFF T REM/ GIONS U 3 75 & COUN 2, BR	HICKNESS & H ARKS <b>BS</b> SS - <i>WAUSAU, W</i> RRMP E - UM TY) STR. 230 IDGE NO. HRM	PIER 4		W. Y
	GENER GENER 05/ 04/ 0. Dr 04/ 0. Dr 04/ 04/ 04/ 04/ 04/ 04/ 04/ 04/	14/19 24/19 ATE RFF C: HI PF	AMP P O	REV'I BR REV'D BR VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	) PER REVIS REVIS AIRE, M , IR-7	IFF T REM/ GIONS U 3 75 & COUN 2, BR	HICKNESS @ H ARKS BSSS WAUSAU, W RRMP E - UM TY) STR. 230	PIER 4		W
	GENER GENER 05/ 04/ 04/ 04/ 04/ 04/ 04/ 04/ 04	24/19 24/19 ATE RF C: HI PI WI	AMP P O	REV'I BR REV'D BR VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	PER G STI REVIS AIRE, M , IR-: TON ( 04667 FIE	IFF T REMA SIONS U 3 75 & COUN 2, BR	HICKNESS & H ARKS <b>BS</b> SS - <i>WAUSAU, W</i> RRMP E - UM TY) STR. 230 IDGE NO. HRM	PIER 4		W
	GENER GENER 05/ 04/ 04/ 04/ 04/ 04/ 04/ 04/ 04	24/19 24/19 ATE RF C: HI PI WI	AMP P O	REV'D BR REV'D BR Ver 2 <i>EAU CL</i> VER IR-74 WB TI, OH (HAMIL .84, PID NO. 1 GROUP	PER G STI REVIS AIRE, M , IR-: TON ( 04667 FIE	IFF T REM/ SIONS U 3 75 & COUN 7, BR	HICKNESS & H ARKS ARKS ARKS ARKS ARMP E - UN TY) STR. 230 IDGE NO. HRM BOLTS HOLES	PIER 4		<b>W</b> Y

E BRG PIER 2 GIRDER TEST 203C1 TEN FILM NO.

DIAGRAM FOR 203C1

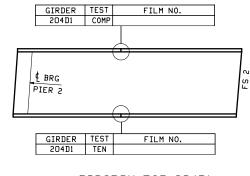
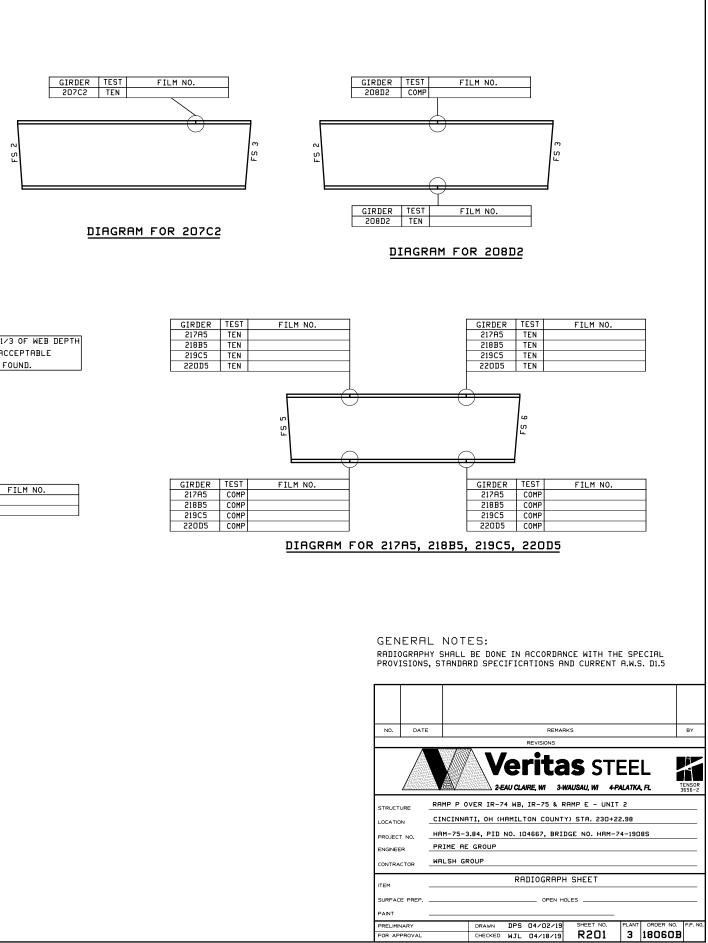


DIAGRAM FOR 204D1



GIRDER TEST FILM NO. 
 GIRBER
 TEST

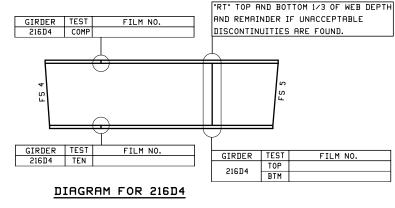
 209A3
 TEN

 210B3
 TEN

 211C3
 TEN

 212D3
 TEN
 GIRDER TEST 209A3 COMP 210B3 COMP 211C3 COMP 212D3 COMP FILM NO.

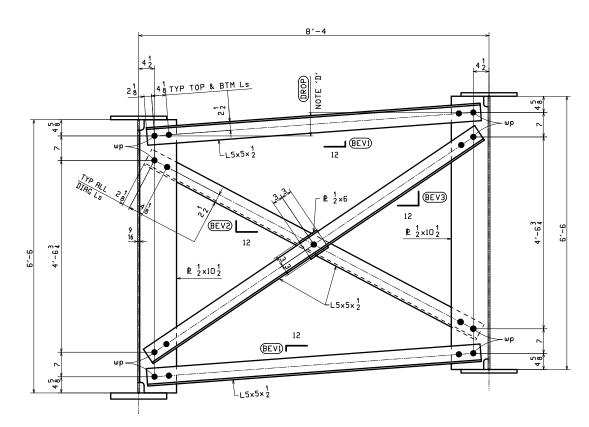
DIAGRAM FOR 209A3, 210B3, 211C3, 212D3



THE	FIELD NO REQ'D.	BOLT	BOLT	BOLTS	• OF	COTO		325 T				-n	HASH	PIECES CONNECTED AND REMARKS
LINE	REQ'D.	DIAM.	LEN.	CONN	CONN.	GRIP	THI	CKNES	5 0F P	cs. co	NNECTE		_	
1														FIELD SPLICE 5,6 @ G1-3, 2 @ G1-2, 4 @ G
2	54	7				<u>_1</u>	11 16		13 16				2	
3	54		4 2 4	6	9	2 ½	16 3 8	1 9 16	16 3 8		-		2	Top Fig Splice
4	36	7 8 7 8			9	116 316	8 1 <sup>5</sup> 116		8 1 8		-		2	Web Splice
5	54	8	5	6	9	316	1 16	1	18		-		-	Btm Flg Splice
6														FIELD SPLICE 3 @ G2
7		7	-			34	11 16	_	13 16				2	
8	6	8 7 8	2 3	6	1		16 3 8	2 9 16	16 3 8				2	Top Fig Splice
9	4	8 7 8			1	1 <sup>5</sup> 4 <sup>9</sup> 4 <sup>16</sup>	8 15 16		8 1 8				2	Web Splice
10	6	8	6	6	1	4 16	1 16	28	18				-	Btm Flg Splice
11														FIELD SPLICE 5 @ G4
12	6	7	4 4	6		2 4	11 16	14	13 16				2	Top Flg Splice
13		8 7 8	44 24		1	24 15 116	16 3 8	14 9 16	16 3 8				2	
14	4		-	4	1									Web Splice
15	6	7 8	5 <sup>1</sup> 2	6	1	3 15 3 16	116	12	18				2	Btm Flg Splice
16				-			-					$\left  - \right $		
17		7	_ 1	<u> </u> .	<u> </u>	_ 3	11	-1	13			$\left  - \right $		FIELD SPLICE 3 @ GI
18	6	7 8 7	5 <sup>1</sup> 2	-	1	34	11 16 3	24	13 16 3				2	Top Fig Splice
19	4	7 8 7	24	-	1	1 <sup>5</sup> . 15	38	9 16	3 8		-		2	Web Splice
20	6	7 8	6 <sup>1</sup> 2	6	1	4 15 16	1 <sup>5</sup> 116	22	18		<u> </u>		2	Btm Flg Splice
21				-			-							
22		7					11		13			$\left  - \right $		FIELD SPLICE 4 @ G1
23	6	7 8 7	4	6	1	2 1 5	11 16 3	1	13 16 3				2	Top Fig Splice
24	4	7 8 7	24	4	1	1 16 13	38	9 16 3	38				2	Web Splice
25	6	7 8	5 <sup>1</sup> 2	6	1	3 13 3 16	116	18	18				2	Btm Flg Splice
26				-										
27		7					·		2					FIELD SPLICE 2 @ G4
28	6	7 8 7	6	6	1	4 <sup>1</sup> / <sub>2</sub>	18	2	18				2	Top Fig Splice
29	4	7 8 7	34		1	111 116	9 16	9 16	9 16 3				2	Web Splice
30	6	7 8	7	6	1	5 1 2	18	22	18				2	Btm Flg Splice
31														
32		-					<u> </u>		-					FIELD SPLICE 3 @ G3
33	6	78	7	6	1	54	18	22	18				2	Top Flg Splice
34	4	787	з 4		1	1 <sup>13</sup> 116	5 8	9 16	5				2	Web Splice
35	6	7 8	7	6	1	5 1 2	18	22	18				2	Btm Flg Splice
36														
37		7					,		2					FIELD SPLICE 4 @ G3
38	6	8	52		1	4	18	14	18				2	Top Flg Splice
39	4	7 8 7	34	<u> </u>	1	1 <sup>13</sup> 116	58	9 16	58				2	Web Splice
40	6	7 8	6	6	1	44	18	14	18				2	Btm Flg Splice
41														
42			L .				<b>—</b>	<u> </u>	_					FIELD SPLICE 4 @ G4
43	6	7 8 7	6 <sup>1</sup> 2		1	48	18	18	18				2	Top Flg Splice
44	4	78	34		1	1 13 1 16	5 8	9 16	58				2	Web Splice
45	6	7 8	6 1 2	6	1	5	18	2	18				2	Btm Flg Splice
46				<u> </u>			-				<u> </u>			
47		_	.				.		_		<u> </u>			FIELD SPLICE 3 @ G4
48	6	78	62	+	1	5	18	22	18				2	Top Flg Splice
49	4	78	3 <sup>1</sup> 2	1	1	1 15	11 16	9 16	11 16		<b> </b>		2	Web Splice
50	6	7 8	7	6	1	5 <sup>1</sup> 2	18	22	18		<b> </b>		2	Btm Flg Splice
51				L							L			
52				L			L				L			FIELD SPLICE 2 @ G3
53	6	78	4	6	1	22	11 16	1	13 16				2	Top Fig Splice
54	4	7	24	4	1	1 <sup>5</sup> 116	38	9 16	3				2	Web Splice
55	6	7 8	6	6	1	4 <mark>3</mark> 4 16	1 16	14	18				2	Btm Fig Splice
56														
57														FIELD SPLICE 6 @ G4
58	6	7 8	4	6	1	2 2	11 16	1	13 16				2	Top Flg Splice
59	4	7 8	2 4	4	1	1 <sup>5</sup> 116	3 8	9 16	3 8				2	Web Splice
	6	7 8	6	6	1	4 <mark>7</mark> 4 16	1 <sup>5</sup> 16	2	18			1 1	2	Btm Flg Splice

FC3. SHIFE FT. IN. SPEC. NO. REMINKS								MATERIA		
NO.         DATE         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         SHEPPING BK TS         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.         NO.         SHEPPING BK TS         NO.			PCS.	MARK	SHAPE	LEN	IGTH IN.	MATERIAL SPEC.		REMARKS
1     16     8477     2 * 70     0     34     POP     24     10	1						3	8302	213	EXACT COUNT
1     4     6     7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>613/6</td> <td>ZINC-PLATED</td>									613/6	ZINC-PLATED
1         6         8/2/2         2 × 89         0         4.4         8/97         23/6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>213 2</td> <td></td>									213 2	
Image: constraint of the									213 9	
1         22         1/2         2         1/2         2         1/2						1	<u> </u>		213	1
1       30       0/17       1       1       0       6       1007       1342       2146-FARTED         1       24       0/2       1       0       7       1007       1342       2146-FARTED         1       24       0/2       1       1       0       7       1007       1342       2146-FARTED         2       240       0/2       1       1       0       1       10       1000       100       100									213	
1       20       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k / k       k / k	э						6		213	
1       320 n-2       2 met Nut       Prist       <									213	1
			-		7 8 Ø HEX NUT	0		A563 GR-	-DH 213 28	ZINC-PLATED
NO.         DATE         REMARKS         BUILD           0	з		640	wc7	STD. 7 WASH FOR 8¢ B	DLT		F436	213	
NO.         DATE         REMARKS         BY           NO.         DATE         REMARKS         BY           TEUCTURE         REMARKS         BY         BY           NO.         DATE         REMARKS         BY           TEUCTURE         REMARKS         BY           REMARKS         BY         BY           REMARK									-	
ND.         DATE         REMARKS         BY           NO.         DATE         REMARKS         BY           REMARKS         REMA	-1									
NO.         DATE         REMARKS         BY           NO.         DATE         REMARKS         BY           REVISIONS         REVISIONS         REVISIONS         REVISIONS           VERISTARS STEEL         SAUCARE M         SAUGRAU, M         APAATKA           THUCTURE         RAMP P OVER IR-74 HB, IR-75 & RAMP E - UNIT 2         CONTON         CINCINNATI, OH (HARHILTON COUNTY) STR. 230+22.99           HAM-75-3.84, PTD NO. LOGE7, BRIDGE NO. HAM-74-1908S         PRIME RE GROUP         PRIME RE GROUP         PRIME RE GROUP	7									
NO.         DATE         REMARKS         BY           NO.         DATE         REMARKS         BY           NO.         DATE         REMARKS         BY           NO.         DATE         REMONS         BY           NO.         DATE         REMONS         BY           NO.         DATE         RAMP P OVER IR-74 HB, IR-75 & RRMP E - UNIT 2         CINCINNATI, OH (HARHLICON COUNTY) STR. 230+22.98         HHM-73-3.84, PID NO. ID4667, BRIDGE NO. HAM-74-18085         PRIME RE GROUP           NGINEER         PRIME RE GROUP         HHM-74-18085         PRIME RE GROUP         HHM-74-18085	_								_	
NO.         DATE         REMARKS         BY           REVISIONS         REVISIONS         BY         REVISIONS           VERTICARS         STRUCTURE         RRMP P OVER IR-74 MB, IR-75 & RRMP E - UNIT 2         CINCINNETI, OH (HEMILTON COUNTY) STR. 230+22.98           ROMEER         PRIME RE GROUP         MALISAL, PID NO. 104667, BRIDGE NO. HRM-74-18085         PRIME RE GROUP	-									
REVISIONS										
REVISIONS										
RAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT 2           CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98           HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-19085           PRIME RE GROUP           WALSH (ROUP)										
CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98       ROJECT NO.     HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S       INDIRER     PRIME RE GROUP       IONTRACTOR     WALSH GROUP		0. D	ATE			REVIE		ARKS		BY
HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S  NGINEER  PRIME RE GROUP  WALSH GROUP					2-EAU CL	<b>ri</b>		<b>as</b> s 9-wausau, wi	4-PALA	EL 🖁
INGINEER PRIME RE GROUP	STR	UCTURE	Rf		2-EAU CL	<b>IR-</b>	10NS 11 175 &	ASS WAUSAU, WI	4-PALA	
IONTRACTOR MALSH GROUP	STR		Rf C:	INCINNA	2 <b>EAUCL</b> VER IR-74 WB, ITI, OH (HRMIL	IR-	510NS 11 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	<b>AS</b> S <i>wausau, m</i> ramp e - ty) str. 2:	4-PALA UNIT 2 30+22.98	
	STR .OC	UCTURE ATION UJECT NO.	Rf C:	INCINNA 1M-75-3	2-EAU CL) VER IR-74 WB, ITI, OH (HRMIL 0.84, PID NO. 1	IR-	510NS 11 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	<b>AS</b> S <i>wausau, m</i> ramp e - ty) str. 2:	4-PALA UNIT 2 30+22.98	
		UCTURE ATION JECT NO.	Rf C: Hi	INCINNA AM-75-3 RIME AE	2-EAU CLJ VER IR-74 WB, ITI, OH (HAMIL 1.84, PID NO. 10 GROUP	IR-	510NS 11 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	<b>AS</b> S <i>wausau, m</i> ramp e - ty) str. 2:	4-PALA UNIT 2 30+22.98	

SURFACE PREP.			OPEN H	OLES			
PAINT							
	_						
PRELIMINARY	DRAWN	DPS	04/19/19	SHEET NO.	PLANT	ORDER NO.	F.P.
FOR APPROVAL	CUECKED			SB201	2	180608	
FUR APPROVAL	CHECKED	MJL	04/18/19	JDZUI	3	100000	



INT CROSSFRAME CF2 (LOOKING UP-STATION)

TYPE	DROP	(BEVI)	(BEV2)	(BEV3)
	5 <sup>5</sup> 8	3 4	6 <mark>1</mark>	7 15 7 16
INT	5 <sup>15</sup> 516	13 16	6 <sup>7</sup> 16	8
CF2	6 <mark>1</mark>	13 16	6 <mark>3</mark>	8 <mark>1</mark> 8 16
	6 <mark>9</mark> 6 16	7 8	6 <mark>3</mark>	8 <mark>1</mark> 8 16

8'-4 54 34 34 TYP TOP & BTM LS 28 tra 12 BEV1 64 wp-LL6x6×2 TYP RLL DIRG LS (BEV2) Y 4′-34 6、-6 12 ₽ 1/2×14 2 LE 2×7 L6×6×2 12 Ť, (BEVI) ωr ┡┋╪╹

(LOOKING UP-STATION)

TYPE	DROP	(BEVI)
	4 <sup>1</sup> 8	9 16
	4 <mark>7</mark> 4 16	58
	4 <mark>3</mark>	5 8
INT CF3	5	11 16
	5 <sup>3</sup> 4	3 4
	6 <mark>1</mark>	13 16
	6 13 6 16	15 16
	7 <mark>1</mark>	15 16

NOTE D:

- DROP VARIES IN MAGNITUDE - SEE "WS" SHEETS.

NOTES:

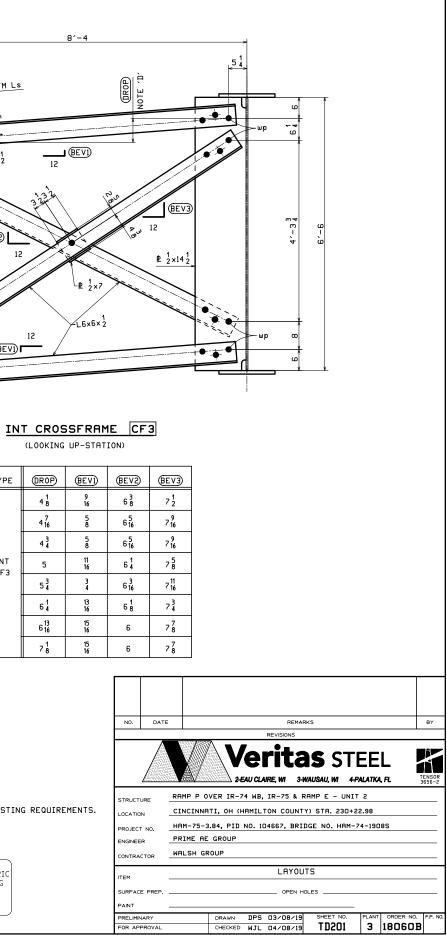
- CROSSFRAMES & CONN. PLATES SHALL BE ASTM A709-50W.

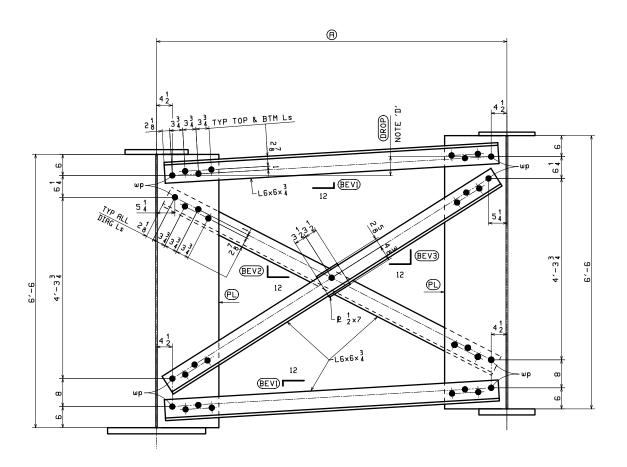
- STRUT & CONN. PLATE MATERIAL SHALL MEET CHARPY V-NOTCH TESTING REQUIREMENTS.

- FIELD BOLTS SHALL BE 14 "Ø ASTM A490.

- HOLES SHALL BE 1<sup>9</sup> (OVS).

\*\* NOTE \*\* THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITTED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REG'D FOR FABRICATION.





## INT & PIER CROSSFRAME CF4 (LOOKING UP-STATION)

TYPE	e	(DROP)	A	(BEVI)	(BEV2)	(BEV3)
		4 13 4 16	8'-4	5 8	б4	7 <mark>1</mark>
INT	m 11	5 <sup>3</sup> 16	8'-4	11 16	6 <mark>3</mark> 6 16	7 9 7 16
CF4	₽ 2×172	5 <sup>1</sup> 2	8'-4	3 4	6 <mark>8</mark>	785
		5 <sup>11</sup> 516	8'-4	3 4	6 <mark>1</mark>	785
PIER 3	₽ 1 <sup>5</sup> ×17 <sup>1</sup>	4 <mark>9</mark> 4 16	8'-4	5 8	6 <b>4</b>	7 <mark>1</mark>
CF4	₩ 18×172	6	8'-4	13 16	6 <mark>1</mark> 6 16	7 11 7 16
		5 <mark>1</mark> 5 16	8'-6 <sup>1</sup> 2	5 8	6 <mark>1</mark> 6 16	78
PIER 4 CF4	₽ 1 <sup>5</sup> / <sub>8</sub> ×17 <sup>1</sup> / <sub>2</sub>	6 <mark>9</mark> 6 16	8'-685	13 16	5 <sup>13</sup> 516	7 <mark>9</mark> 7 16
		6 <mark>9</mark> 6 16	8′-6 <sup>13</sup> 16	13 16	5 <sup>13</sup> 516	7 <mark>1</mark>

NOTE D: - DROP VARIES IN MAGNITUDE - SEE "WS" SHEETS.

#### NOTES:

- CROSSFRAMES & CONN. PLATES SHALL BE ASTM A709-50W.

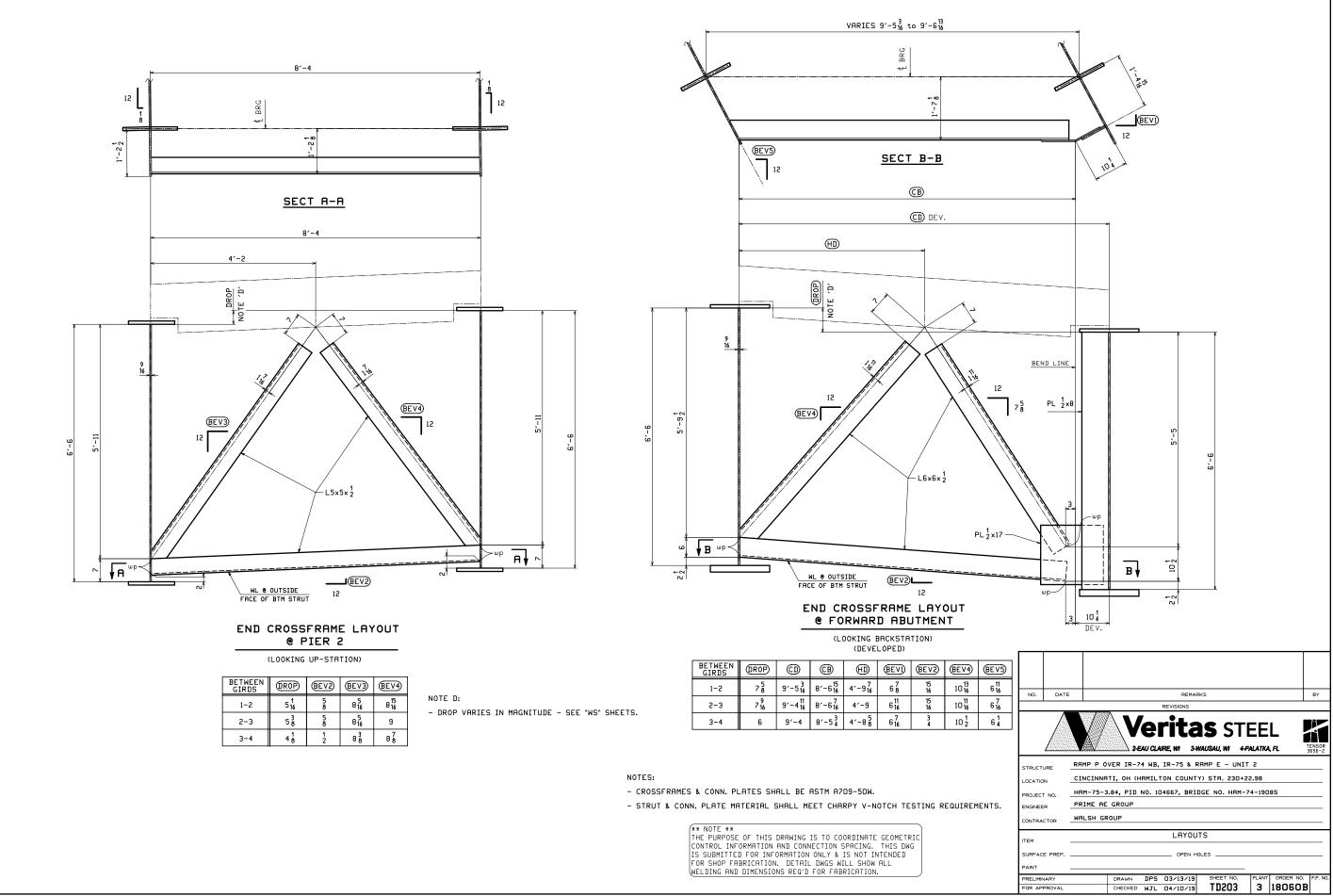
- STRUT & CONN. PLATE MATERIAL SHALL MEET CHARPY V-NOTCH TESTING REQUIREMENTS.

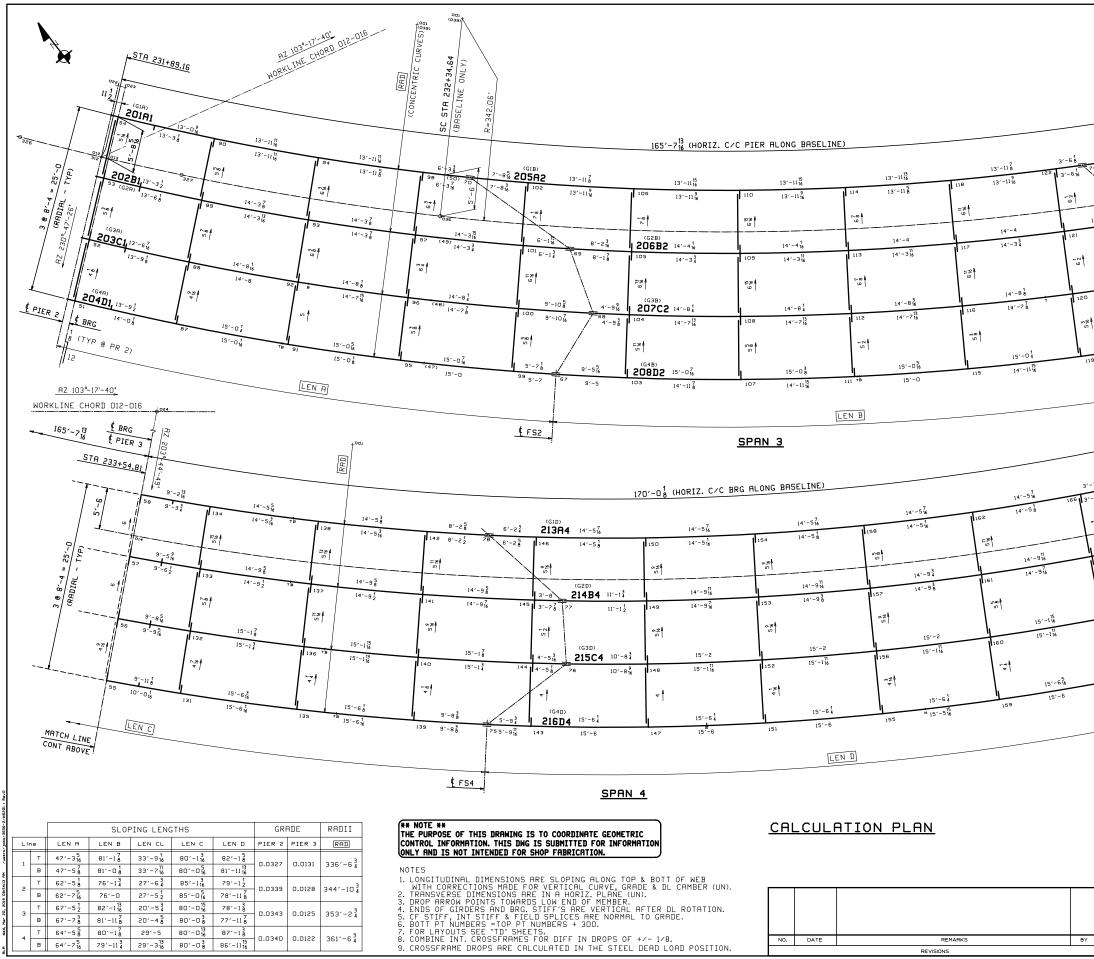
- FIELD BOLTS SHALL BE 14"Ø ASTM A490.

- HOLES SHALL BE 1<mark>1</mark>ø (OVS).

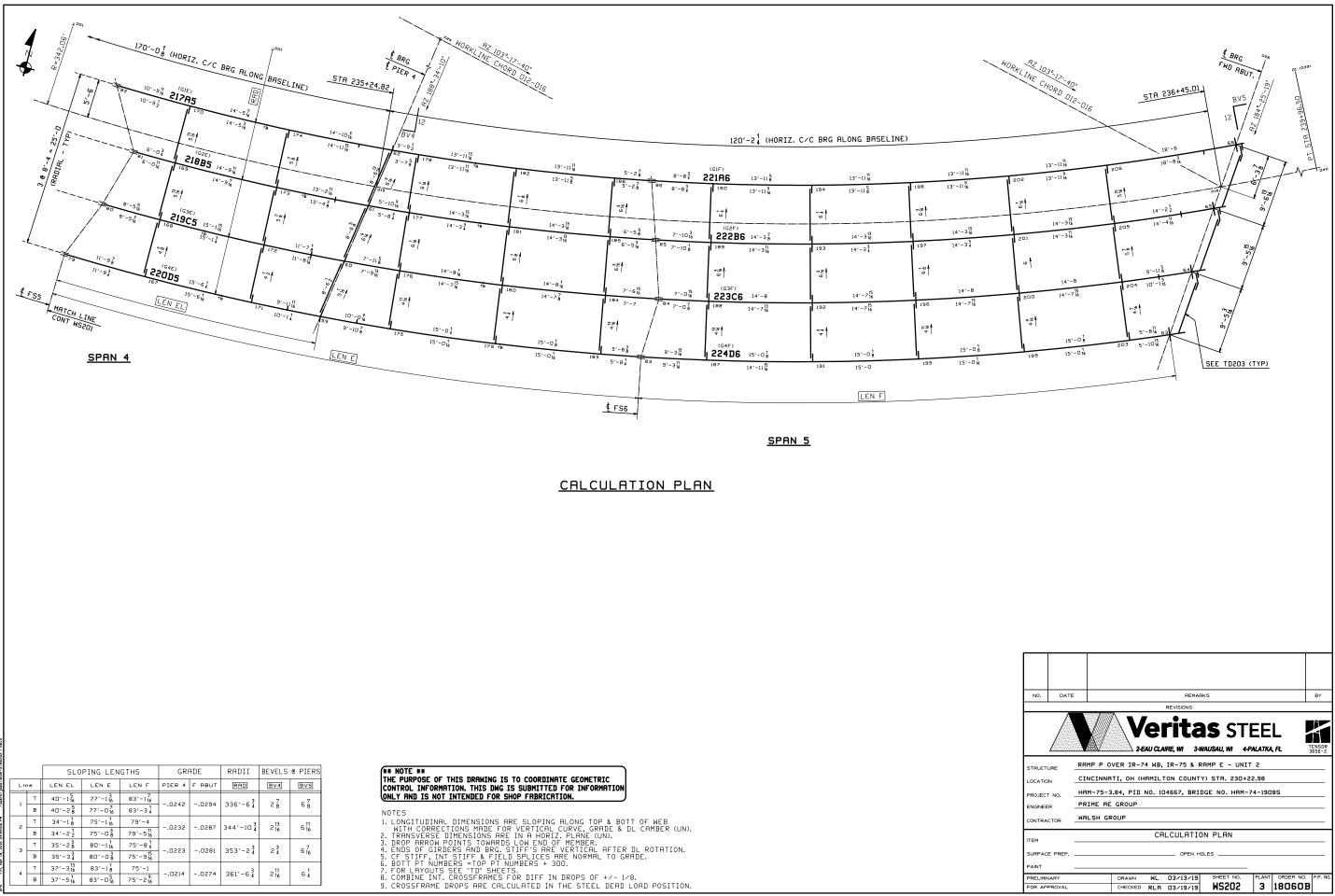
\*\* NOTE \*\* THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REG'D FOR FABRICATION.

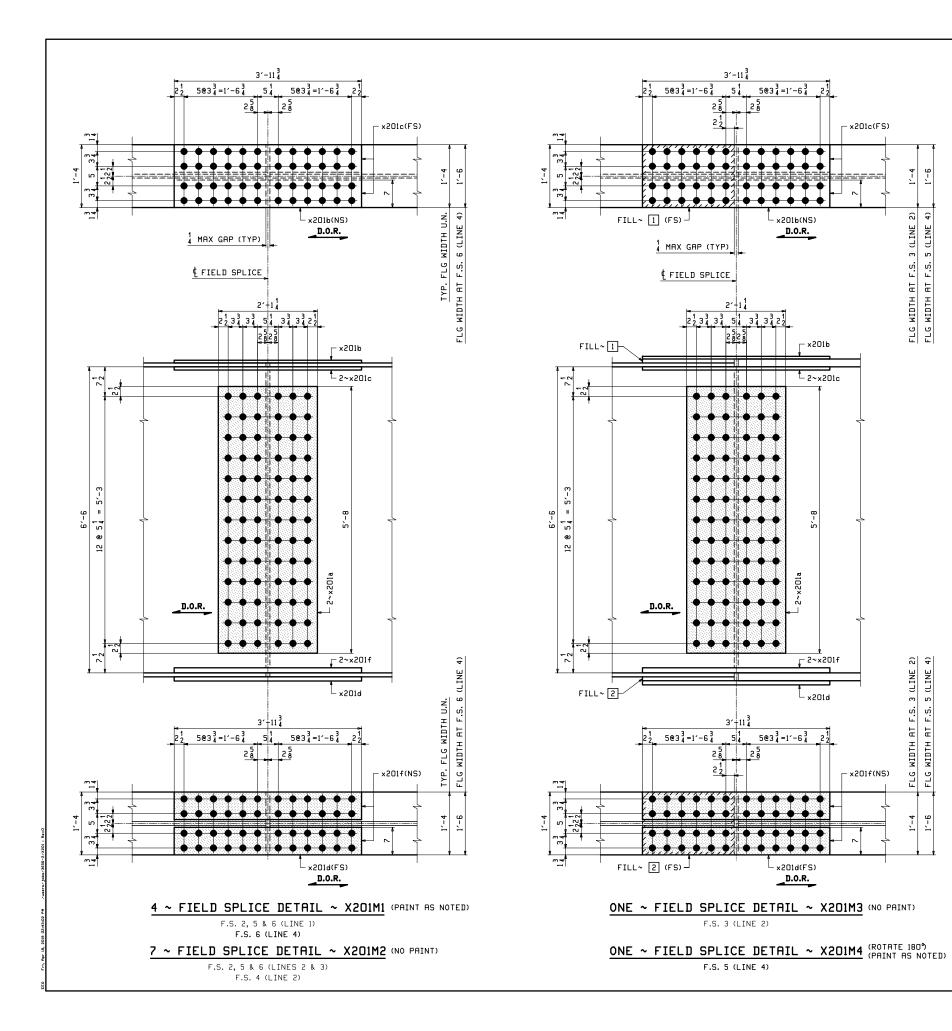
Line       Revisions         NO.       DATE       REMARKS         REVISIONS       REVISIONS         Veritas street       Revisions         STRUCTURE       RAMP P OVER IR-74 MB, IR-75 & RAMP E - UNIT 2         LOCATION       CINCINNATI, OH (HAMILTON COUNTY) STR. 230+22.98         PROJECT NO.       HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S         ENGINEER       PRIME RE GROUP         CONTRACTOR       MALSH GROUP         ITEM       LAYOUTS         SURFACE PREP.       OPEN HOLES         PAINT       OPEN HOLES				
Line       Revisions         NO.       DATE       REMARKS         REVISIONS       REVISIONS         Veritas street       Revisions         STRUCTURE       RAMP P OVER IR-74 MB, IR-75 & RAMP E - UNIT 2         LOCATION       CINCINNATI, OH (HAMILTON COUNTY) STR. 230+22.98         PROJECT NO.       HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S         ENGINEER       PRIME RE GROUP         CONTRACTOR       MALSH GROUP         ITEM       LAYOUTS         SURFACE PREP.       OPEN HOLES         PAINT       OPEN HOLES				
REVISIONS	$\triangle$	04/24/19	9 REV'D BRG STIFF THICKNESS @ PIER 4	EE0 WJ
Veritas steel         24AU CLARE, MI       3-WAUSAU, MI       4-PALATKA, FL         STRUCTURE       RMMP P OVER IR-74 WB, IR-75 & RMMP E - UNIT 2         LOCATION       CINCINNATI, OH (HAMILTON COUNTY) STR. 230+22.98         PROJECT NO.       HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S         ENGINEER       PRIME RE GROUP         CONTRACTOR       WALSH GROUP         ITEM       LAYOUTS         SURFACE PREP.       OPEN HOLES         PANT	N0.	DATE	REMARKS	BY
RAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT 2       LOCATION     CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98       PROJECT NO.     HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S       ENSINEER     PRIME AE GROUP       CONTRACTOR     WALSH GROUP       ITEM     LAYOUTS       SURFACE PREP.     OPEN HOLES       PANT     OPEN HOLES			REVISIONS	
STRUCTURE				TENSOR 3656-2
LOCATION         HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S           PROJECT NO.         PRIME RE GROUP           CONTRACTOR         WALSH GROUP           ITEM         LAYOUTS           SURFACE PREP.         OPEN HOLES           PAINT	STRUCT		RAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT 2	
PROJECT NO	LOCATIO	<sub>N</sub> <u>C</u>	CINCINNATI, OH (HAMILTON COUNTY) STA. 230+22.98	
ENGINEER	PROJECT	т NO Н	HAM-75-3.84, PID NO. 104667, BRIDGE NO. HAM-74-1908S	
LAYOUTS           item	ENGINEE	R P	PRIME AE GROUP	
ITEMOPEN HOLES	CONTRA	CTOR W	NALSH GROUP	
PANT	ITEM		LAYOUTS	
	SURFAC	E PREP.	OPEN HOLES	
	PAINT			
PRELIMINARY BIS USVISVIS	PRELIMIN	NARY	DRAWN DPS 03/13/19 SHEET NO. PLANT ORDER N	
FOR APPROVAL CHECKED WJL 04/09/19 TD202 3 18060B	FOR AP	PROVAL	CHECKED WJL 04/09/19 TD202 3 18060	JB





							•	
			AZ 103°	HORD 012-01 HORD 012-01 EBR	1.9 <u>2</u>			
				17-40 2-01	è			
			82,103	URD DIC	G R 3 B3			
			TNE	HU. L BR	G [2]	١	20'-08	-
			WORKLI	L P!	ER 3 3			
			1		3+54.81			
				STA 23	3+54.81			
				STH CO				
_				9'	-38	-		
			13'-11]	130 9	-216			
	101-5 <sup>1</sup> 1 205	0 203	13'-114	1130	Я.			
	10	1126	13'-118	\	° t	014		
74	10'-52	ų		-64		1		
		5°	_		9'-63	1:		
``	$\mathbf{X}$			1	9'-516	157		
		-81 210	B3 14'-38	129	g, - 5 (i	ľ		
	7 3'		14'-3	1	ع	∘ <i>¶</i> ∦		
10'-	716	-816 125			1	N.		<i></i> .
10′	-71 73 4	$\mathbf{N}$ .		1		Ń		
		1.02		. <b>\</b> .	9'-916	-	56	
		1 >	(G3C)	10'-816	128 9'-816		Ň	
		<b> </b>  3'-	11.0	10'-816		۰ <u>۴</u>	M)	
	14'-816	124 3'-	-1110 72		====	4	1	
	14'-7 8	ľ	/		1		1	
		$\sim V$	22		9'-11		+55-	
		A	- + (2)	.3			\	
1		- / \	212D3 15	-016	127 9		7	
		4'-516	123 15	5'-016	1		501	
	10'-7 <sup>3</sup>	21 4'-5	16-3	LEN CL	<u></u>	LE	NC	
19	10'-7		_			_	1	
		-			_		H LINE	
		/		_	-	MHIU	BELOW	
						COM	•	
	¢ FS	3						
			+001					
			.\					
	_		R=342.06					
_			42.					
			5					
			02					
-716	₹		\					
-716	As a construction of the second secon							
13	\							
- 1	1							
	····· \							
	8'-816							
	B'-B <sup>15</sup>							
1165	B'-B <sup>15</sup>	 81						
1	B'-8 <sup>15</sup>	191						
1	B'-B <sup>15</sup>	B1						
1	8'-8 <sup>3</sup>	81						
1	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 6'-8 <sup>16</sup>	80						
1	8'-8 <sup>3</sup>							
1	BB.19 BB.19 BB.19 BB.19							
1	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 6'-8 <sup>16</sup>							
1	v <sup>+</sup> <sub>2</sub> − − − − − − − − − − − − − − − − − − −							
1	B'-B <sup>15</sup> B'-B <sup>15</sup> B'-B <sup>16</sup> G'-B <sup>16</sup> 164 6'-B <sup>16</sup> 164 6'-B <sup>16</sup> 3'-B <sup>16</sup>							
	v <sup>+</sup> <sub>2</sub> − − − − − − − − − − − − − − − − − − −							
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>							
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 1164 6'-8 <sup>16</sup> 1164 6'-8 <sup>16</sup> 1164 6'-8 <sup>16</sup>	80						
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	TNE_					
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	<u>INE</u>					
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>		INE 1202					
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	INE 1202					
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	3	<b>•</b>				
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	3	rita	<b>€ С</b> ТГ			
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	3	rita	<b>s</b> ste	ĒĒ		
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>	80	Ve		<b>S</b> STE			
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>		Ve	LAIRE, WI 3-W/	NUSAU, WI 4-P/	ALATKA		TENSOR 3636-2
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 164 6'-8 <sup>16</sup> 165 9'-8 <sup>1</sup>		Ve		NUSAU, WI 4-P/	ALATKA		TENSOR 3655-2
	8'-8% 5 8'-8% 5 8'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8%	MATCH L CONT WE	Ver IR-74 W	LAIRE, WI 3-W/	MUSAU, WI 4-PA	2		TENSOR 3656-2
	8'-8% 8'-8% 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 173 163 3'-8% 173 164 6'-8%	MATCH L CONT WE	VER IR-74 MI ITI, OH (HRMI	<b>LAIRE, WI 3-W</b> B, IR-75 & RF	AUSAU, WI 4-P/ IMP E - UNIT D STR. 230+22	2 2 2.98	, FL	ENSOR 2
	8'-8% 8'-8% 5 8'-8% 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 173 163 3'-8% 173 173 173 175 175 175 175 175 175 175 175	RAMP P O CINCINNE HAM-25-3	VER IR-74 W DITI, OH (HRMI 8.84, PID NO.	<b>LAIRE, WI 3-WA</b> B, IR-75 & RF LTON COUNTY	AUSAU, WI 4-P/ IMP E - UNIT D STR. 230+22	2 2 2.98	, FL	TENSOR 3656-2
	8'-8% 8'-8% 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 100 100 100 100 100 100 100 10	RAMP P O CINCINNE HAM-75-3 PRIME RE	VER IR-74 MI ITI, OH (HRMI B.84, PID NO. C GROUP	<b>LAIRE, WI 3-WA</b> B, IR-75 & RF LTON COUNTY	AUSAU, WI 4-P/ IMP E - UNIT D STR. 230+22	2 2 2.98	, FL	TENSOR 1956-2
	8'-8% 8'-8% 5 8'-8% 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 173 163 3'-8% 173 173 173 175 175 175 175 175 175 175 175	RAMP P O CINCINNE HAM-25-3	VER IR-74 MI ITI, OH (HRMI B.84, PID NO. C GROUP	<b>LAIRE, WI 3-WA</b> B, IR-75 & RF LTON COUNTY	AUSAU, WI 4-P/ IMP E - UNIT D STR. 230+22	2 2 2.98	, FL	7 TENSOR 3656-2
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 193	RAMP P O CINCINNE HAM-75-3 PRIME RE	Ver IR-74 W NTI, OH (HAMI 9.84, PID NO. C GROUP ROUP	<b>LAIRE, WI 3-WA</b> B, IR-75 & RF LTON COUNTY	NUSAU, WI 4.74 IMP E - UNIT D STR. 230+22 GE NO. HRM-7	2 2 2.98	, FL	
	8'-8% 8'-8% 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 100 100 100 100 100 100 100 10	RAMP P O CINCINNE HAM-75-3 PRIME RE	Ver IR-74 W NTI, OH (HAMI 9.84, PID NO. C GROUP ROUP	LAIRE, WI 3-WA B, IR-75 & RF LTON COUNTY 104667, BRID	NUSAU, WI 4.74 IMP E - UNIT D STR. 230+22 GE NO. HRM-7	2 2 2.98	, FL	15450r
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 193	RAMP P O CINCINNE HAM-75-3 PRIME RE	Ver IR-74 W NTI, OH (HAMI 9.84, PID NO. C GROUP ROUP	LAIRE, WI 3-WA B, IR-75 & RF LTON COUNTY 104667, BRID	AUSAU, WI 499 IMP E - UNIT D STA. 230+22 SE NO. HAM-7 N PLAN	2 2 2.98	, FL	Ensor-2
	8'-8% 8'-8% 5'-8% 164 6'-8% 164 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 193 4-5% 193 4-5%	RAMP P O CINCINNE HAM-75-3 PRIME RE	Ver IR-74 W NTI, OH (HAMI 9.84, PID NO. C GROUP ROUP	LAIRE, WI 3-W/ B, IR-75 & RF LTON COUNTY 104667, BRID 104667, BRID	AUSAU, WI 499 IMP E - UNIT D STA. 230+22 SE NO. HAM-7 N PLAN	2 2 2.98	, FL	
	8'-8 <sup>16</sup> 8'-8 <sup>16</sup> 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 163 3'-8 <sup>16</sup> 164 6'-8 <sup>1</sup> 164 6'-8 <sup>1</sup> 165 3'-8 <sup></sup>	RAMP P O CINCINNE HAM-75-3 PRIME RE	VER IR-74 W VER IR-74 W ITI, OH (HRMI B.84, PID NO. GROUP ROUP	LAIRE, WI 3-W/ B, IR-75 & RF LTON COUNTY 104667, BRID 104667, BRID CALCULATION	AUSAU, WI 499 IMP E - UNIT D STA. 230+22 SE NO. HAM-7 N PLAN	2 2 2.98	I.R. 185	3656-2
	8'-8% 8'-8% 5'-8% 164 6'-8% 164 6'-8% 164 6'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 163 3'-8% 164 6'-8% 165 6'-8% 1	RAMP P O CINCINNE HAM-75-3 PRIME RE	VER IR-74 W VER IR-74 W ITI, OH (HRMI B.84, PID NO. C GROUP ROUP C C DRAWN WL	LAIRE, WI 3-W/ B, IR-75 & RF LTON COUNTY 104667, BRID 104667, BRID CALCULATION	AUSAU, M 490 IMP E - UNIT ) STA. 230+22 SE NO. HAM-7 N PLAN	2 2.98 4-190	85	3656-2





MARK	1	2
X201M3	×201g	×201k
X201M4	×201m	x201n

LI	SHIP	NO.	ASS'Y			١	MATERIAL				
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS		
1											
2	X201M1	4		FIELD SPLICE I	ETAI	_			1161		
э		8	x201a	PL 8×68	2	14	A209-50NT2	202 2	FP:31		
4		4	x201b	PL 16×16	3	11 4	A709-50WT2	2024	FP:31		
5		8	×201c	PL 13 16×7	3	11 4	A709-50WT2	207	FP:31		
6		4	×201d	PL 18×16	3	114	A709-50WT2	207	FP:31		
7		8	×201f	PL 15/16×7	3	$11\frac{3}{4}$	A709-50WT2	2075	FP:31		
8											
9	X201M2	7			ЕТАІ	_			1161		
10		14	×201a	PL 8×68	2	14	A709-50WT2	202 2	FP:31		
11		7	×201b	PL 16×16	3	11 4	A709-50WT2	2074	FP:31		
12		14	×201c	PL 13 16×7	3	11 4	A709-50WT2	2076	FP:31		
13		7	×201d	PL 18×16	3	11 4	A709-50NT2	2073	FP:31		
14		14	×201f	PL 15/16×7	3	114	A709-50WT2	2025	FP:31		
15											
16	X201M3	1		FIELD SPLICE I	ЕТАІ	_			1390		
17		2	×201a	PL 8×68	2	14	A709-50WT2	202 2	FP:31		
18		1	×201b	PL 16×16	3	114	A709-50WT2	202 4	FP:31		
19		2	×201c	PL 13 16×7	3	114	A709-50WT2	2026	FP:31		
20		1	×201d	PL 18×16	3	11 4	A709-50WT2	2023	FP:31		
21		2	×201f	PL 15x7	3	11 4	A709-50WT2	2025	FP:31		
22		1	×201g	PL 1×16	1	11 4	A709-50W	20721	FILL FP:31		
23		1	×201k	PL 18×16	1	11 4	A709-50W	20723	FILL FP:31		
24											
25	X201M4	1		FIELD SPLICE I	ETAI	_			1202		
26		2	×201a	PL 8×68	2	14	A709-50WT2	207 2	FP:31		
27		1	×201b	PL 16×16	3	114	A709-50WT2	202 4	FP:31		
28		5	×201c	PL 13 16×7	3	11 4	A709-50WT2	207 6	FP:31		
29		1	×201d	PL 18×16	3	114	A709-50WT2	202 3	FP:31		
30		2	×201f	PL 15×7	3	11 4	A709-50WT2	202 5	FP:31		
31		1	×201m	PL 4×16	1	11 4	A709-50W	207	FILL FP:31		
32		1	x201n	PL 10GA × 16	1	11 4	A606-4	202/	FILL FP:31		
33											

- DENOTES PRIME COAT PER SHEET PI ON ALL SURFACES OF SPLICE PLATES, GIRDER WEB, AND GIRDER FLANGE.

#### FOR SHOP USE ONLY

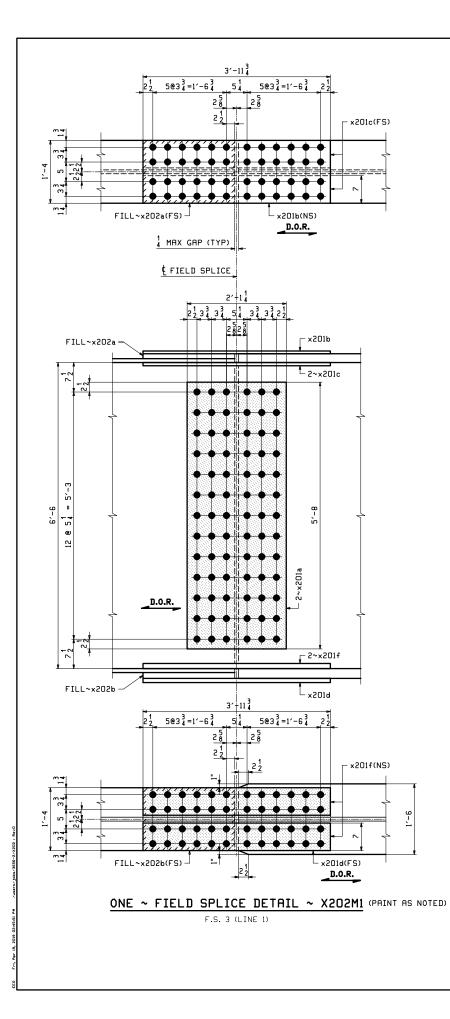
NOTES:

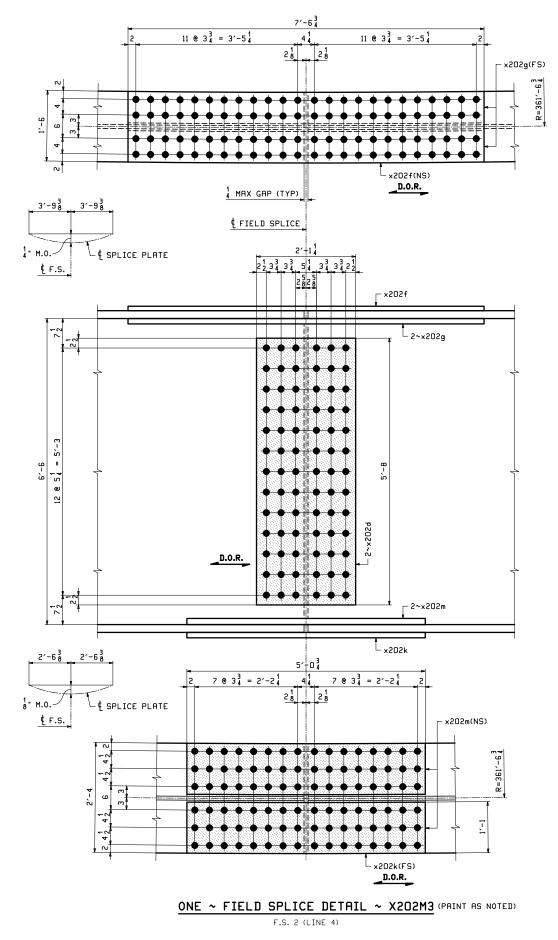
1. FOR GENERAL NOTES SEE SHEET GN1.

2. ALL FIELD SPLICE HOLES ARE DA.

3. \_D.O.R.\_ - DENOTES DIRECTION OF MILL ROLLING.

N0.	DATE				REMAR	кs			BY
					REVISIONS				
						<b>IS</b> STI		_	TENSOR
						AMP E - UNIT		,,,,	3656-2
STRUCT	URE	RHMPPU	IVER IR-7	4 WB,	1K-75 & F	CHMP E - UNIT	2		
LOCATIO	DN	CINCINNE	аті, он (н	AMIL	FON COUNT	Y) STA. 230+22	2.98		
PROJEC	T NO.	HAM-75-3	3.84, PID	NO. 10	4667, BRI	DGE NO. HAM-7	4-190	85	
ENGINE	ĒR	PRIME AE	GROUP						
CONTRA	CTOR	WALSH G	ROUP						
ITEM				FIE	LD SPLIC	E DETAIL			
	E PREP.	SEE P1			OPEN H	DLES 18"Ø FC	R 14	"Ø HSB	
PAINT		SEE P1 &	AS NOTE	D					
PRELIMI	NARY		DRAWN	EE0	04/03/19	SHEET NO.	PLANT	ORDER NO.	F.P. NO
FOR AP	PROVAL		CHECKED	WJL	04/11/19	X201	3	18060E	31





LIN	SHIP	NO.	ASS'Y			1	1ATERIA	L	
Ē	MARK	OF PCS.	MARK	SHAPE	LEN FT.	IGTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1									
2	X202M1	1		FIELD SPLICE I	ЕТАІ	_			1457
э		2	x201a	PL 3×68	2	14	A209-20M15	2022	FP:31
4		1	x201b	PL 16×16	3	11.4	A709-50WT2	2024	FP:31
5		2	x201c	PL 13 16×7	3	11 4	A709-50WT2	2076	FP:31
6		1	×201d	PL 1 8×16	3	114	A709-50WT2	202 3	FP:31
7		2	×201f	PL 15×7	3	11.4	A709-50WT2	207 5	FP:31
8		1	×202a	PL 14×16	1	114	A709-50W	20720	FILL FP:31
9		1	×202b	PL 12×16	1	114	A709-50W		FILL FP:31
10									
11	X202M3	1		FIELD SPLICE	ЕТАІ	_			3061
12		2	x202d	PL <sup>9</sup> / <sub>16</sub> ×68	2	14	A709-50WT2	2027	FP:31
13		1	×202f	PL 18×184	7	6 4	A709-50WT2	2029	FP:31
14		2	×202g	PL 18×84	7	64	A209-20M15	202	FP:31
15		1	×202k	PL 18×288	5	04	A709-50WT2	202	FP:31
16		2	×202m	PL 18×138	5	04	A709-50WT2	207	FP:31
17									

- DENOTES PRIME COAT PER SHEET PI ON ALL SURFACES OF SPLICE PLATES, GIRDER WEB, AND GIRDER FLANGE.

#### FOR SHOP USE ONLY

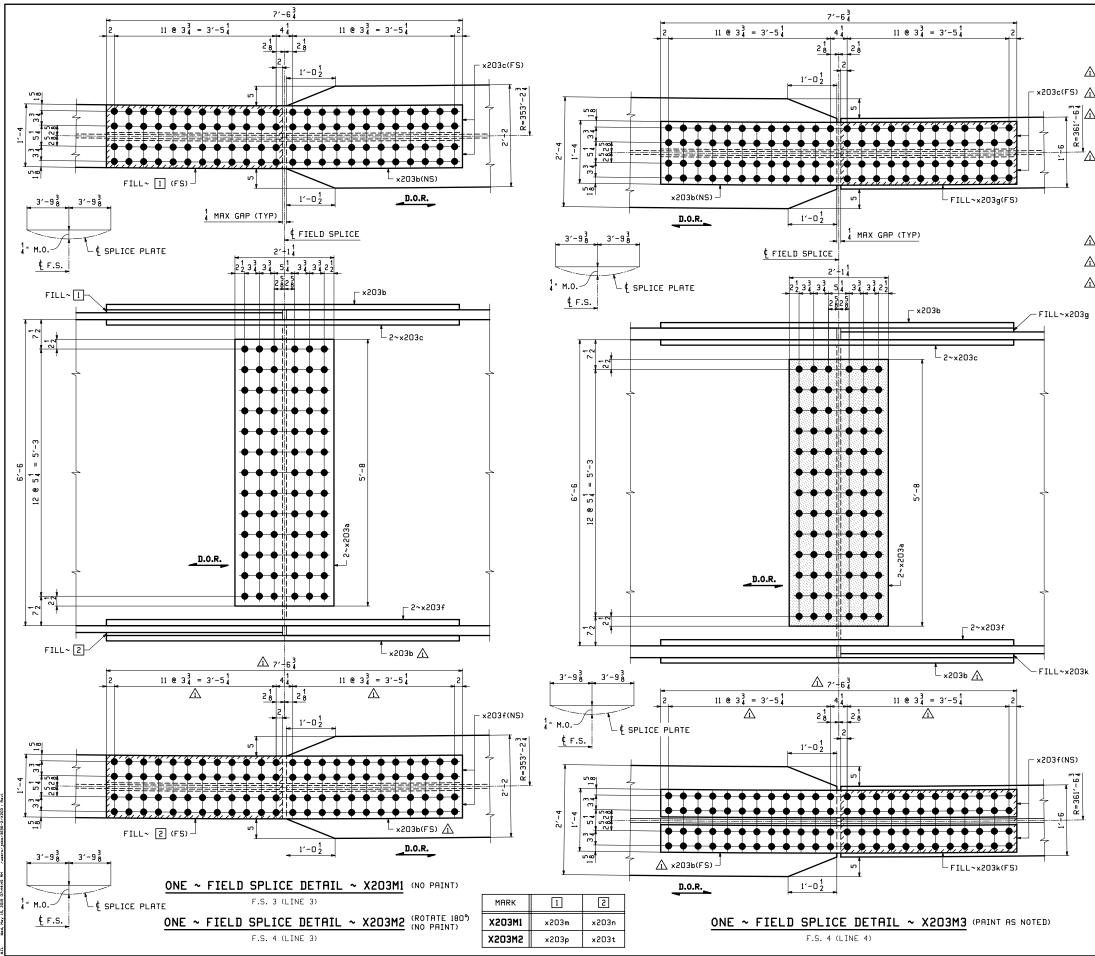
NOTES:

1. FOR GENERAL NOTES SEE SHEET GN1.

2. ALL FIELD SPLICE HOLES ARE **DA**.

3. \_D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

N0.	DATE				REMA	RKS				BY
					REVISIONS					
					rita					TENSOR
L	VIIIII	<b>WARM</b>	Inneerin 2-E	AU CLA	VIRE, WI 3-1	NAUSAU, WI	4-17/	ALA IM	, <i>r</i> L	3656-2
STRUCT	TURE	RAMP P 0	VER IR-7	4 WB,	IR-75 & F	RAMP E -	UNIT	2		
LOCATI	ON	CINCINNE	ті, он (н	AMIL	гом соимт	Y) STA. 2	30+22	2.98		
PROJEC	T NO.	HAM-75-3	8.84, PID	NO. 10	04667, BRI	DGE NO. H	HAM-7	4-190	85	
ENGINE	ER	PRIME AE	GROUP							
CONTRA	ACTOR	WALSH GR	ROUP							
<u> </u>					LD SPLIC					
ITEM				L TC	LD SFLIC					
SURFA	CE PREP.	SEE P1			OPEN H	OLES 18	'Ø F C	$\mathbf{R} 1_{4}^{1}$	Ø HSB	
PAINT		SEE P1 &	AS NOTE	D						
PRELIM	INARY		DRAWN	EE0	04/03/19	SHEET		PLANT	ORDER NO.	F.P. NO.
FOR AF	PPROVAL		CHECKED	WJL	04/11/19	X20	12	3	180608	31



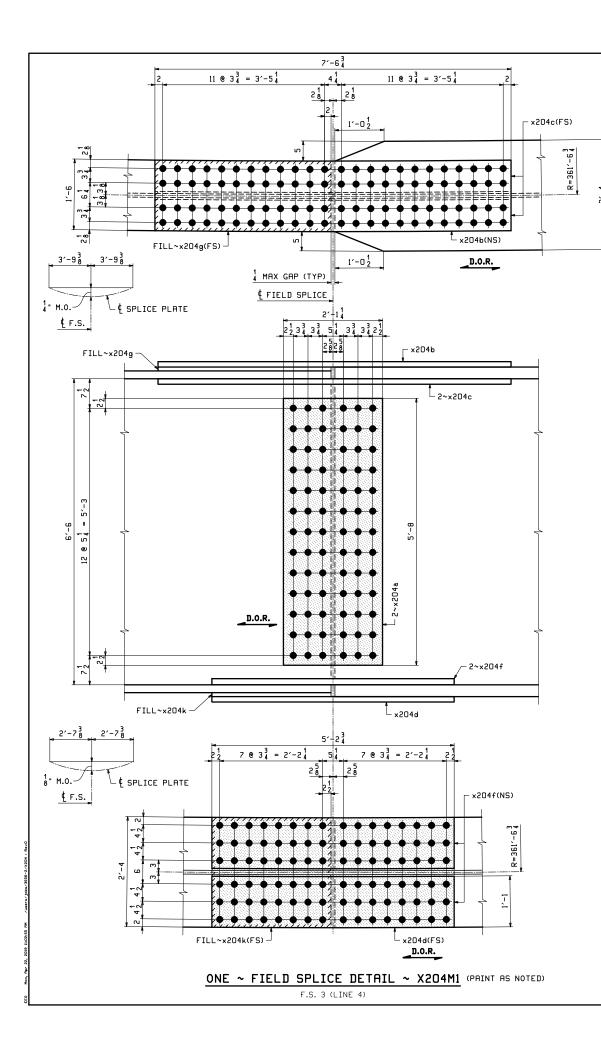
	LI	SHIP	NO.	ASS'Y			١	1ATERIA	L	
	N E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
	1									
	2	X203M1	1		FIELD SPLICE I	DETAI	-			3165
	Э		2	x203a	PL 8×68	2	$1^{1}_{4}$	A209-20M15	202	FP:31
$\triangle$	4		2	x203b	PL 18×164	7	6 <sup>3</sup>	A709-50WT2	202	FP:31
	5		2	x203c	PL 18×74	7	64	A709-50WT2	207	FP:31
$\triangle$	9		2	×203f	PL 18×7	7	64	A709-50WT2	207	FP:31
	2		1	×203m	PL 4×16	3	94	A709-50W	207	FILL FP:31
$\mathbb{A}$	8		1	x203n	PL 4×16	3	94	A709-50W	20725	FILL FP:31
	9									
	10	X203M2	1		FIELD SPLICE I	DETAI	-			2960
	11		5	×203a	PL 8×68	5	14	A709-50WT2	207	FP:31
A	12		2	×203b	PL 18×164	7	64	A709-50WT2	207	FP:31
	13		2	x203c	PL 18×74	7	64	A709-50WT2	207	FP:31
	14		2	x203f	PL 18×7	7	64	A709-50WT2	207	FP:31
	15		1	x203p	PL 4×16	3	94	A709-50W	20726	FILL FP:31
	16		1	x203t	PL 4×16	3	94	A709-50W	20726	FILL FP:31
	17									
	18	X203M3	1		FIELD SPLICE I	DETAI	-			3088
	19		2	×203a	PL 8×68	2	14	A709-50WT2	207	FP:31
$\wedge$	20		2	×203b	PL 18×164	7	64	A709-50WT2	207	FP:31
	21		2	×203c	PL 18×74	7	64	A709-50WT2	207	FP:31
$\wedge$	22		2	×203f	PL 18×7	7	64	A709-50WT2	207	FP:31
	23		1	×203g	PL 8×16	3	94	A709-50W	20729	FILL FP:31
$\wedge$	24		1	x203k	PL 2×16	3	94	A709-50W	207 30	FILL FP:31
	25									

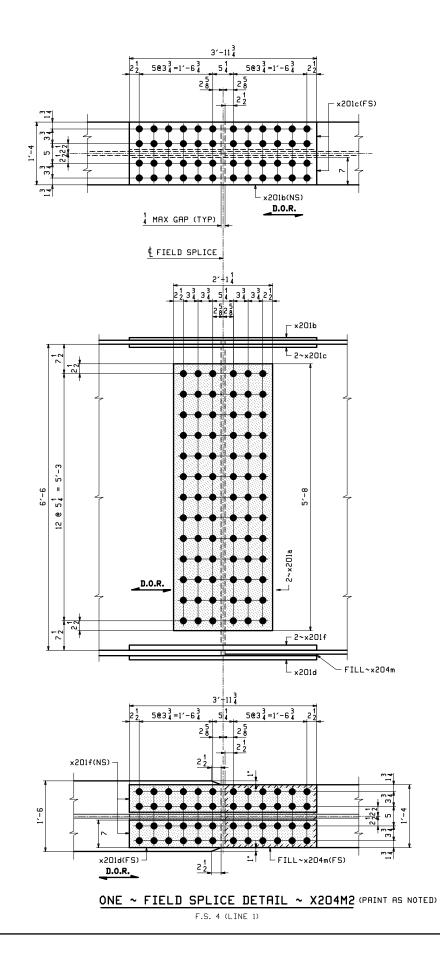
- DENOTES PRIME COAT PER SHEET P1 ON ALL SURFACES OF SPLICE PLATES, GIRDER WEB, AND GIRDER FLANGE.

### FOR SHOP USE ONLY

NOTES: 1. FOR GENERAL NOTES SEE SHEET GN1. 2. ALL FIELD SPLICE HOLES ARE DA. 3. \_D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

$\triangle$	05/13/	19	RE	V'D B	OTTOM FL	G SPLICE F	PLATE	s		EEO WJL
N0.	DATE				REM,	ARKS				BY
					REVISIONS					
						<b>AS</b> S -wausau, wi				TENSOR 3656-2
STRUCT	URE .	RAMP P C	VER IR-7	4 WB,	IR-75 &	RAMP E -	UNIT	2		
LOCATIO	IN .	CINCINNE	аті, он (н	AMIL'	TON COUN	TY) STA. 2	30+22	2.98		
PROJECT	T NO	HAM-75-3	3.84, PID	NO. 10	04667, BR	IDGE NO. H	IAM-7	4-190	85	
ENGINEE	R.	PRIME AE	GROUP							
CONTRA	CTOR .	WALSH G	20UP							
ITEM				FIE	LD SPLI	CE DETAI	L			
	E PREP.	SEE P1			OPEN	HOLES 18"	ØFO	R 1	Ø HSB	
PAINT		SEE P1 &	AS NOTE	D						
PRELIMIN	NARY		DRAWN	EE0	04/04/1			PLANT	ORDER NO.	
FOR AP	PROVAL		CHECKED	WJL	04/11/19	X20	3	3	180601	B  31





LI	SHIP	NO.	ASS'Y			1	1ATERIA	L	
E	MARK	OF PCS.	MARK	SHAPE	LEN FT.	GTH IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1									
2	X204M1	1		FIELD SPLICE I	ЕТАІ	_			3675
э		2	x204a	PL 11 16×68	2	14	A709-50WT2	207	FP:31
4		1	x204b	PL 18×184	7	64	A709-50WT2	2029	FP:31
5		2	x204c	PL 13×84	7	6 <sup>3</sup>	A709-50WT2	202	FP:31
6		1	x204d	PL 18×288	5	24	A709-50WT2	207	FP:31
7		5	x204f	PL 15×138	5	23	A709-50WT2	207	FP:31
8		1	x204g	PL 1 8×18	3	94	A709-50W	20727	FP:31
9		1	x204k	PL 4×28	2	74	A709-50W	20728	FP:31
10									
11	X204M2	1		FIELD SPLICE I	ЕТАІ	_			1201
12		2	×201a	PL 8×68	2	14	A709-50WT2	207 2	FP:31
13		1	x201b	PL 16×16	3	11 4	A709-50WT2	207 4	FP:31
14		2	x201c	PL 13 16×7	3	11 4	A709-50WT2	2026	FP:31
15		1	×201d	PL 18×16	3	11.4	A709-50WT2	202 3	FP:31
16		2	×201f	PL 15×7	3	11.4	A709-50WT2	202 5	FP:31
17		1	x204m	PL 8×16	1	114	A709-50W	207 24 FI	LL FP:31
18									

- DENOTES PRIME COAT PER SHEET P1 ON ALL SURFACES OF SPLICE PLATES, GIRDER WEB, AND GIRDER FLANGE.

#### FOR SHOP USE ONLY

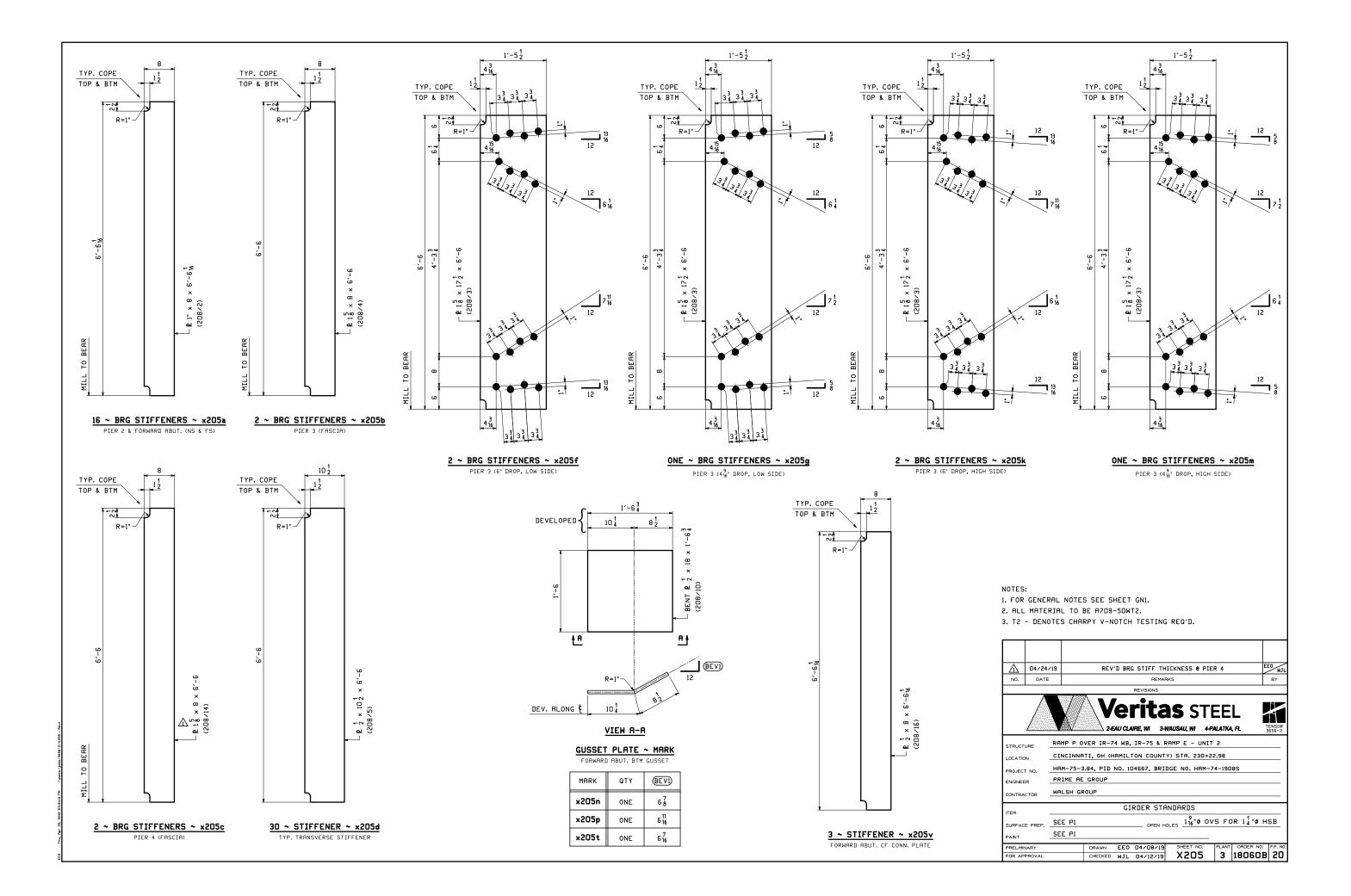
NOTES:

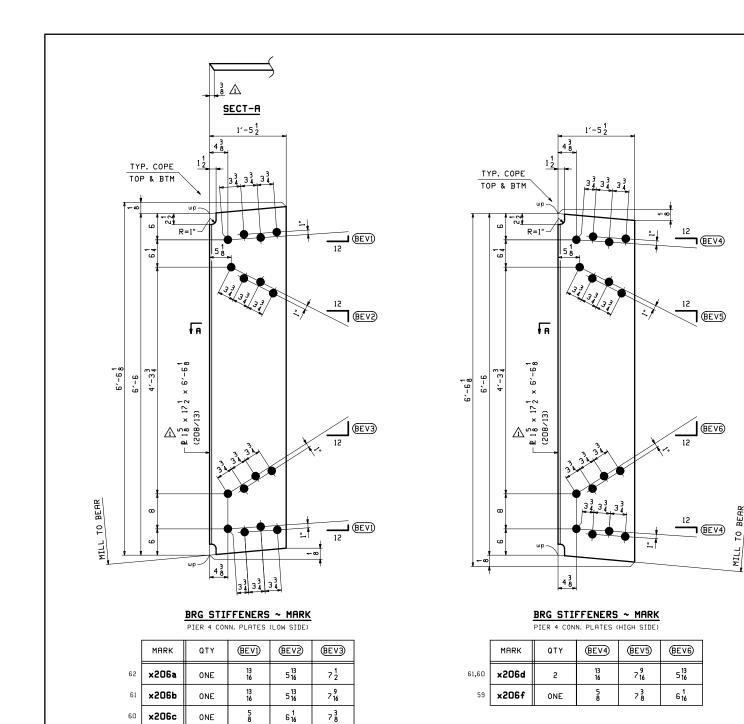
1. FOR GENERAL NOTES SEE SHEET GN1.

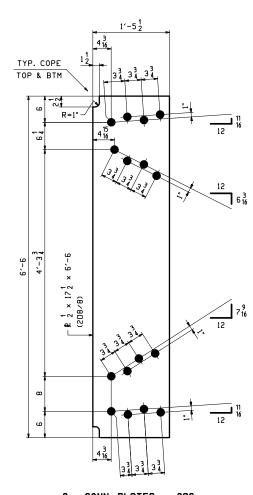
2. ALL FIELD SPLICE HOLES ARE DA.

3. \_\_\_\_\_\_ - DENOTES DIRECTION OF MILL ROLLING.

N0.	DATE				REMA	RKS				BY
					REVISIONS					-
					rita MRE, MI 3-	AS S wausau, w		EE Alatka		TENSOR 3656-2
STRUCT	URE	RAMP P C	VER IR-7	4 WB,	IR-75 &	RAMP E -	UNIT	2		
LOCATIO	N	CINCINNE	аті, он (н	AMIL.	TON COUNT	Y) STA. (	230+2	2.98		
PROJEC	T NO.	HAM-75-3	3.84, PID	NO. 10	04667, BRI	DGE NO.	нам-7	4-190	85	
ENGINE	ĒR	PRIME AE	GROUP							
CONTRA	CTOR	WALSH G	ROUP							
ITEM				FIE	LD SPLIC	E DETAI	ΙL			
	E PREP.	SEE P1			OPEN H	IDLES 18	"Ø F (	DR 1	Ø HSB	
PAINT		SEE P1 &	AS NOTE	D						
PRELIMI	NARY		DRAWN	EE0	04/05/19			PLANT	ORDER NO.	
FOR AP	PROVAL		CHECKED	WJL	04/11/19	X2C	)4	3	180601	3  31

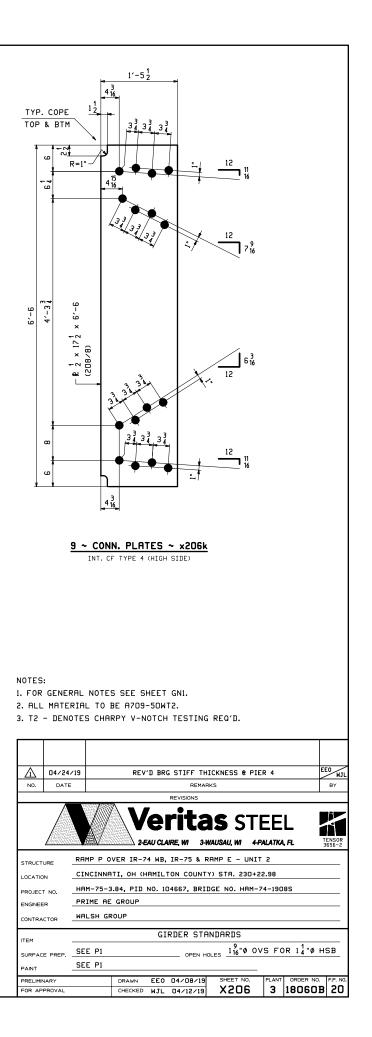


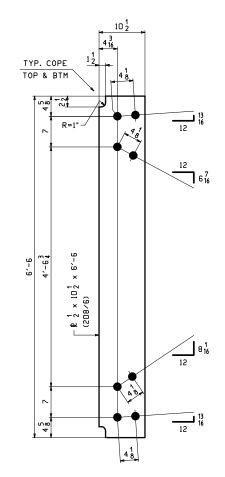




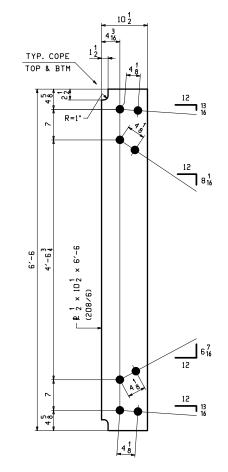
9 ~ CONN. PLATES ~ x206g INT. CF TYPE 4 (LOW SIDE)

jobs/3656-2/X206 : Revl

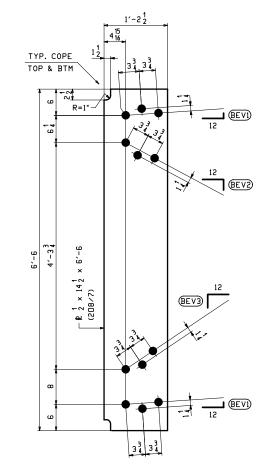




46 ~ CONN. PLATES ~ x207a INT. CF TYPE 2 (LOW SIDE)

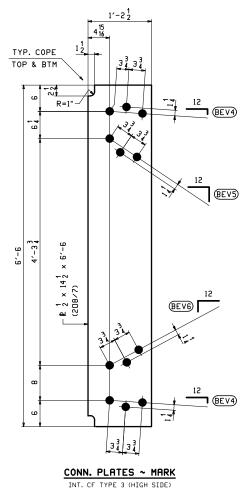


46 ~ CONN. PLATES ~ x207b INT. CF TYPE 2 (HIGH SIDE)



# CONN. PLATES ~ MARK

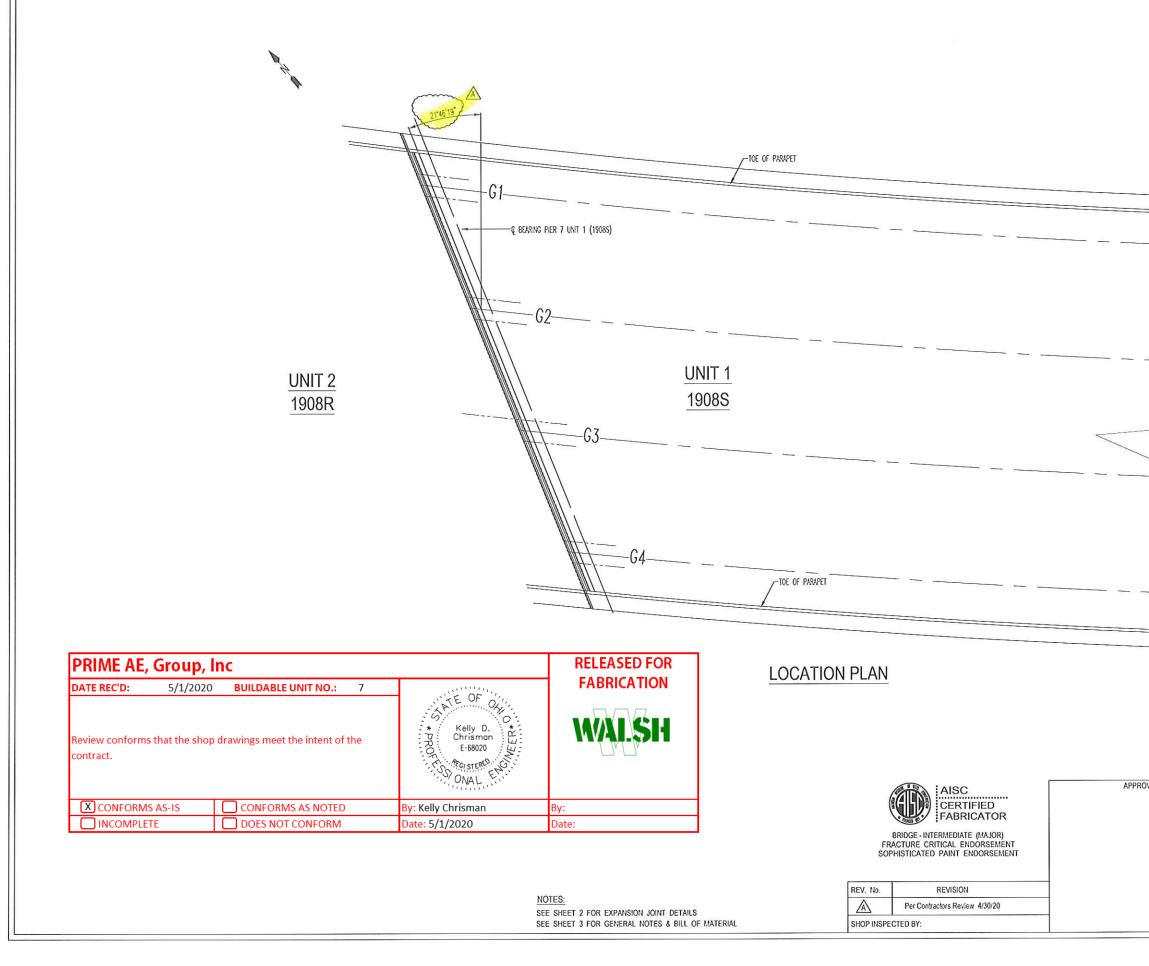
	MARK	QTY	(BEVI)	(BEV2)	(BEV3)
4-5 DROPS	x207c	21	5 8	6 <sup>5</sup> 16	7 9 7 16
58-68 DROPS	x207d	4	13 16	6 <mark>1</mark> 6 8	7 <mark>3</mark>
616-78 DROPS	x207f	10	15 16	6	787



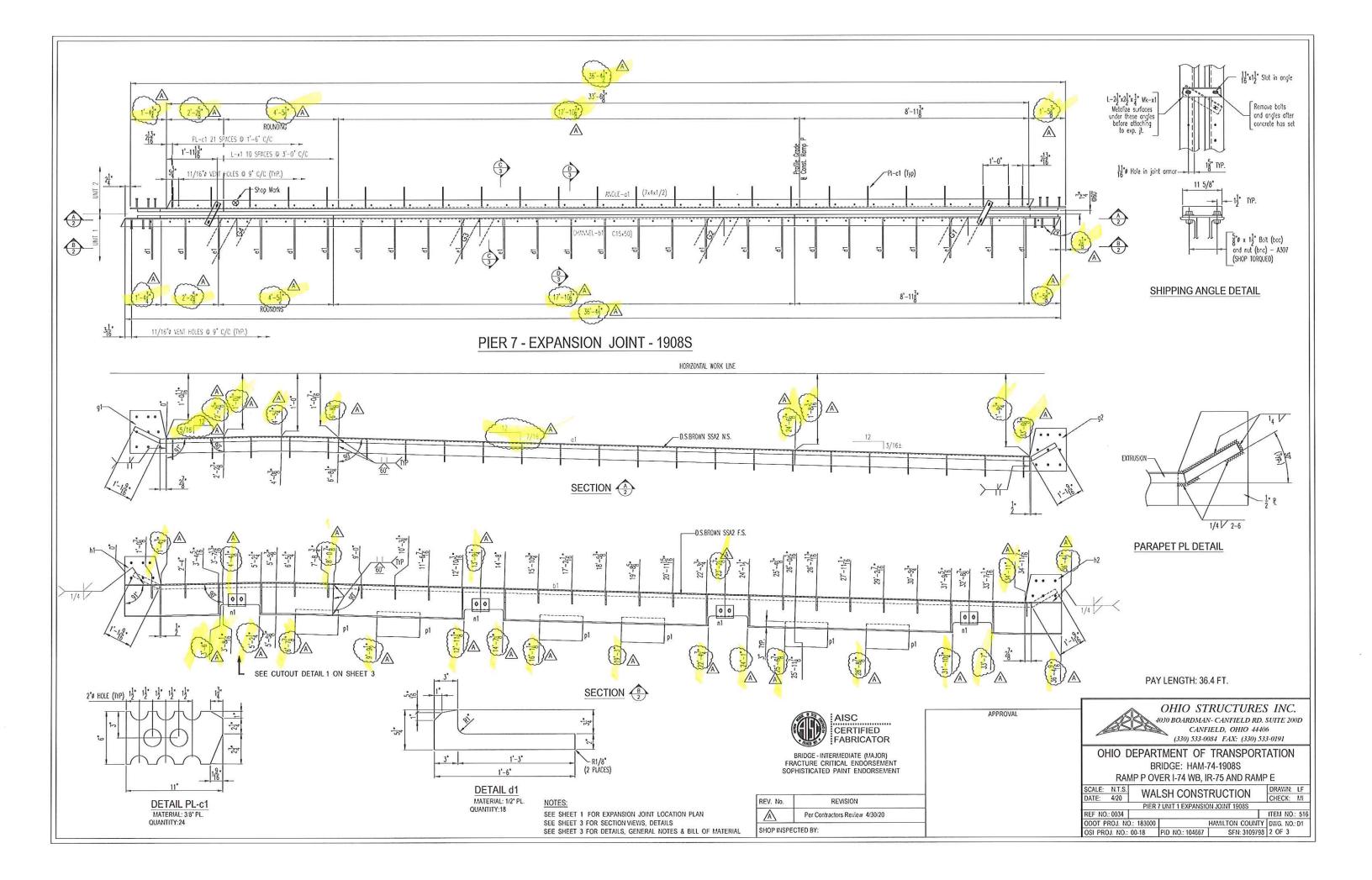
	MARK	QTY	BEV4	BEV5	BEV6
4-5 DROPS	x207g	21	5 8	7 9 7 16	6 <sup>5</sup> 16
58-68 DROPS	x207k	4	13 16	7 <mark>3</mark>	6 <mark>8</mark>
616-78 DROPS	x207m	10	15 16	7 <mark>7</mark>	6

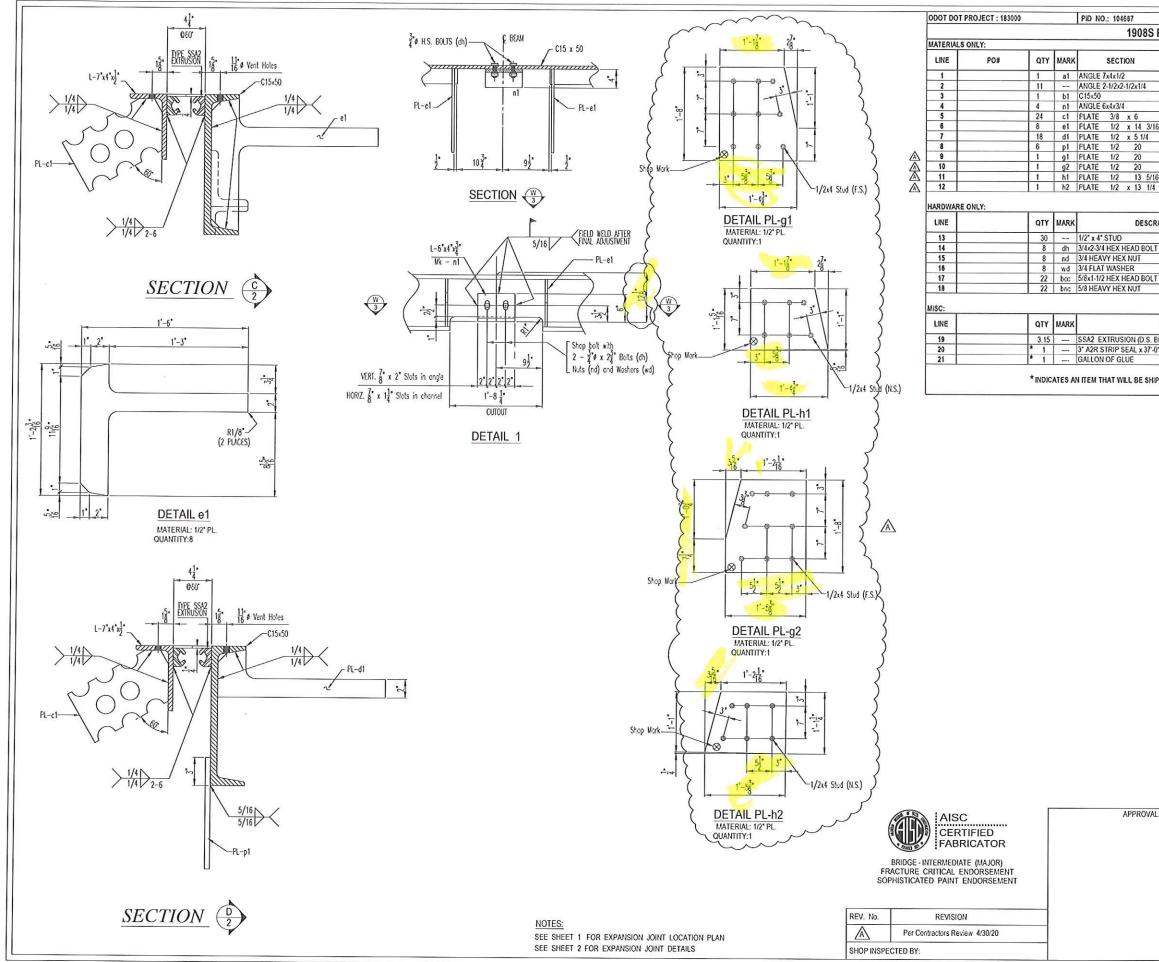
NOTES: 1. FOR GENERAL NOTES SEE SHEET GN1. 2. ALL MATERIAL TO BE A709-50WT2. 3. T2 - DENOTES CHARPY V-NOTCH TESTING REQ'D.

N0.	DATE				REMAR	ĸs			BY	
					REVISIONS					
						<b>IS</b> ST	EE 74LATKA		ENSOR	
	Valideration	(WSEW)	<u>ansen</u> 2-E	AU CLA	IRE, WI 3-V	VAUSAU, WI 44	ALAINA	, <i>FL</i>	8656-2	
STRUCT	STRUCTURERAMP P OVER IR-74 WB, IR-75 & RAMP E - UNIT 2									
LOCATIC	IN .	CINCINNA	ті, он (н	AMILI	ON COUNT	Y) STA. 230+2	2.98			
PROJEC"	T NO	HAM-75-3	.84, PID	NO. 10	4667, BRII	GE NO. HAM-	74-190	85		
ENGINEE	R .	PRIME AE	GROUP							
CONTRA	CTOR .	WALSH GR	OUP							
ITEM				GI	RDER STA	NDARDS				
IT CM	-					19 4 01		OR 14"Ø H	C D	
CUDE AC	C 0050	SEE P1			0051111	- 16 Ψ U	V 5 F C	JR 14 9 11	30	
SURFAC PAINT	E PREP	SEE P1 SEE P1			OPEN H	DLES 116 0	V5 FC		38	
			DRAWN	EEO	OPEN H	SHEET NO.		ORDER NO.	F.P. NO	



/AL	OHIO STRUCTURES INC. 4030 BOARDMAN- CANFIELD RD. SUITE 200D CANFIELD, OHIO 44406 (330) 533-0084 FAX: (330) 533-0191	
	OHIO DEPARTMENT OF TRANSPORTATION BRIDGE: HAM-74-1908S           RAMP P OVER IR-74 WB, IR-75 AND RAMP E           SCALE:         NT.S.           DATE:         4/20           LOCATION PLAN 1908S PIER 7 UNIT 1           REF NO:         0034           ODT PROJ. NO:         183000           HAMILTON COUNTY         DWG. NO: E1           OSI PROJ. NO:         0-18         PID NO: 104667         SFN: 3109793         1 OF 3	



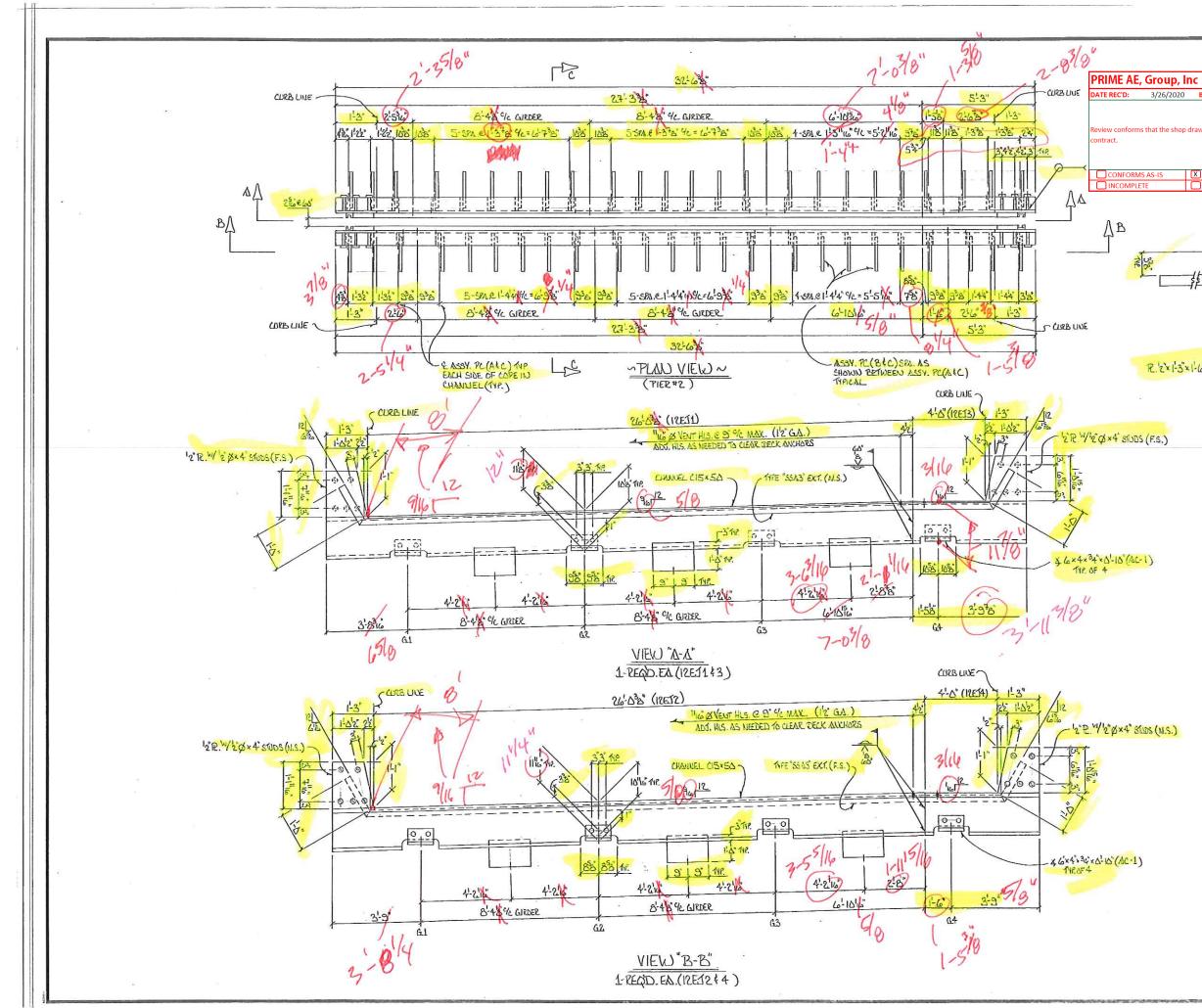


OSI PROJ. #: 00-18 REF #0034						ITEM #: 516	
S P	IER 7 UN	NIT 1 EXP	ANSION J	OINT			
	LENGTH (FEET)	LENGTH (INCHES)	STL SPEC	PC WT (IN LBS)	NET WT (IN LBS)	HEAT #	REMARKS
	33	8 3/4	A709-50	603.75	603.75		
	0	11 5/8	A709-36	3.97	43.69		SHIPPING
	36	6 3/4	A709-50	1,828.13	1,828.13		
	0	8	A709-50	15.73	62.93		
_	0	11	A709-36	5.02	120.48		
16	1	6	A709-36	10.02	80.16		
	1	6	A709-36	7.68	138.28		
	1	0	A709-50	34.03	204.18		
	1	4 3/4	A709-36	47 28	47 28		
	1	4 3/4	A709-36	48.64	48.64		
16	1	5 3/8	A709-36	30.35	30.35		
Ľ.	1	5 3/8	A709-36	31.67	31.67		
CRIPTION STL SPEC		STL SPEC	WT PER	NET WT (IN LBS)	HEAT #	REMARKS	
			A108	0.29	8,70		
T			A325 Galv	0.48	3.85		
			A563 Galv	0.20	1.60		
			F436 Galv	0.04	0.33		
T			A307	0.22	4.77		
			A307	0.12	2.64		
				SUB TOTAL	21.89		
DESCRIPTION			WT PER (IN LBS)	NET WT (IN LBS)	HEAT #	REMARKS	
BR	OWN) x 23'-0	A709-3	6	121.90	383.99		
-0" (D.S. BROWN)				0.00	0.00		
				0.00	0.00		
0.0				SUB TOTAL	383.99		
PP	ED LOOSE			TOTAL WT	3.645.41		

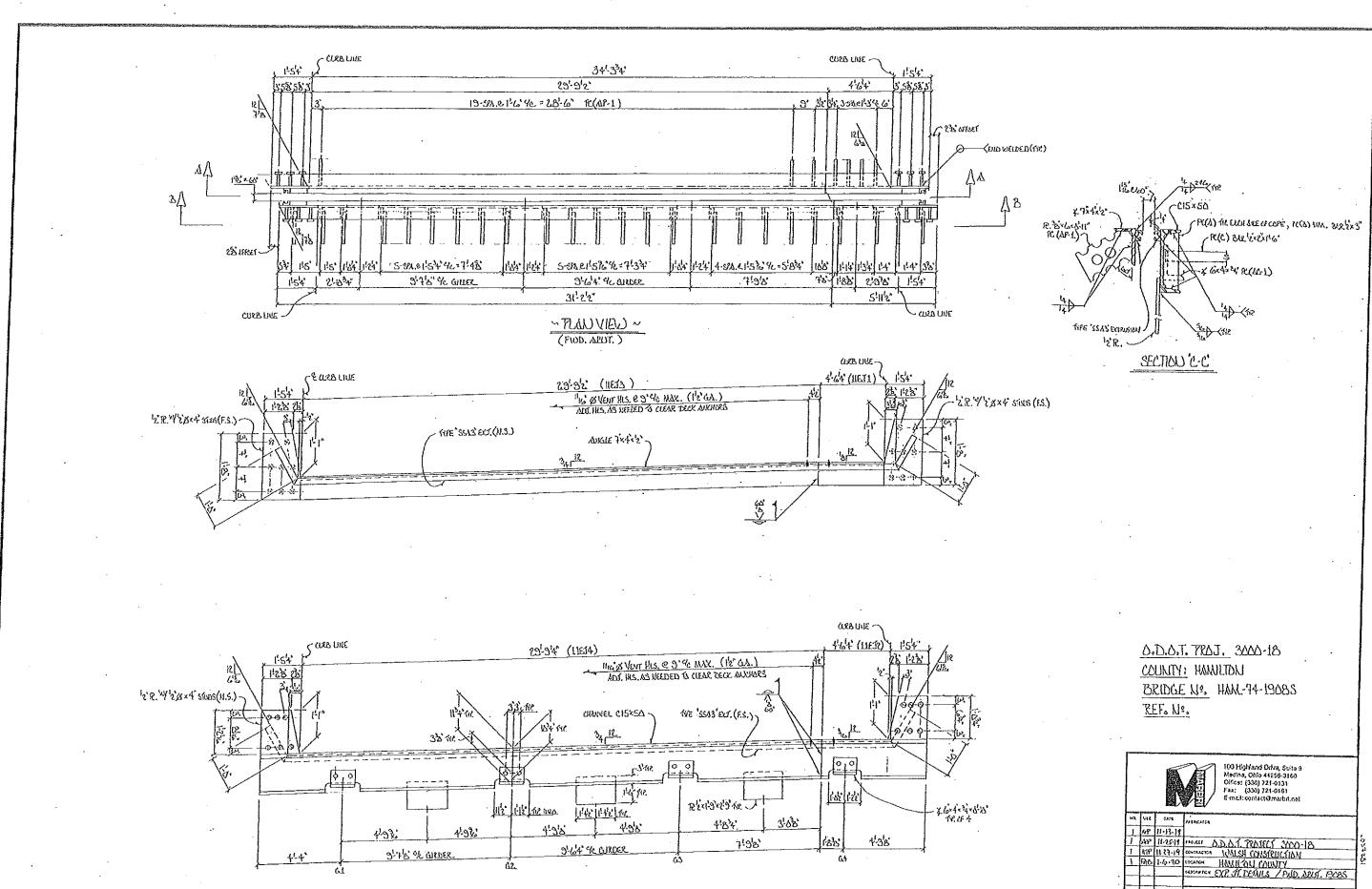
## GENERAL NOTES:

- \* ALL MATERIAL SHALL BE ASTM A709 GR50/36.
- \* MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ODOT-CMS-2019.
- \* WELDING SHALL BE IN ACCORDANCE WITH AWS/AASHTO D1.5-15 AND ODOT 1011.
- \* ALL MATERIAL TO BE METALIZED IN CONFORMANCE WITH O.D.O.T. STANDARD DRAWING EXJ-4-87 DATED 7/19/02.
- \* ALL INFORMATION & DIMENSIONS ARE TO BE APPROVED BY THE CONTRACTOR PRIOR TO COMMENCING FABRICATION.
- \* GENERAL TOLERANCE ±1/8' UNLESS NOTED.

L	OHIO STRUCTURES INC. 4030 BOARDMAN- CANFIELD RD. SUITE 200D CANFIELD, OHIO 44406 (330) 533-0084 FAX: (330) 533-0191						
	OHIO DEPARTMENT OF TRANSPORTATION BRIDGE: HAM-74-1908S RAMP P OVER I-74 WB, IR-75 AND RAMP E						
	SCALE:         N.T.S.         WALSH CONSTRUCTION         DRAWN:         LF           DATE:         4/20         DETAILS, GENERAL NOTES, MATERISL LIST         CHECK:         MI						
	REF. NO.:0034   ITEM NO.: 516						
	ODOT         PROJ.         NO.:         183000         HAMILTON         COUNTY         DWG.         NO.:         D2           OSI         PROJ.         NO.:         00-18         PID         NO.:         104667         SFN: 3109798         3         OF         3						



**RELEASED FOR** FABRICATION DATE REC'D: 3/26/2020 BUILDABLE UNIT NO.: SATE OF ON Chrisn. E-66020 ONAL WALSH onforms that the shop drawings meet the intent of the : Kelly Chrisma DOES NOT CONFORM ate: 3/10/2020 4 D266 (TVP Chields 1 15×50 BAR 2 2 3 3 FULL HERENT PC(A) THE EN SIDE OF COPE IN CHANNEL - BAR 2 3 3 4 6 4 2 PC(B) -- BAR '2'X 2'X 1'-6" PL(C) 5-5 - X 6x4x 2"x 0-10", PC(AC-1) R. 2×1-3×1-6 VIEW "C-C" Note: There is another grade break @ 8 from left toe/Parapet slope is 9/16 which 15 ONLY 1/6 A trom SLOPERIN middle COUNTY: HAMILTON BRIDGE Nº. HANL-74-1908S REF. Nº. 799 North Court Street, Suite 9 Medina, Ohio 44256-3160 Offce: (330) 721-0131 Fax: (330) 721-0161 E-mail: contact@marbri net 1 APP 12-5-1 1 RE1. 3.23-2 ECT D.D. S.T. 7205. 3000-18 WALSH CONSTRUCTION THE HAMILTON COUNTY EXP. JT. DETAILS ~ PIER #2 NETALED ADS. CATE 12-1-19 SECAED RNS. DATE 12-4-19 3000 METALIZED 011-Y-1 10 12



		R	100 Highland Ddra, Suita a Madina, Ohio 44259-3160 Office: (330) 721-0131 Fax: (330) 721-0161 Em23: contact@ma/bd.net	
×a	VIE	wя	NIESSISA	1
	AP	11-13.19		I.
1	is P	11-25-11	INALI D.D.D.T. PROJECT STOD-18	Ŕ
1	轩	11 27-19	CONTRACT WALSH CONSTRUCTION	8
1	Rð	1.6.20	LOCUMON HANNILON COUNTY	19
			WYTHIN EXP. ST. DEALLS / PUD. ABUT. POBS	ĺ
			10000 ADS. 10110-10-19 26A 0000	
			Deres R. W.S. June 11-3-19 (XXX)	2
$\square$			MAN NETALIZED COMPANY	E.