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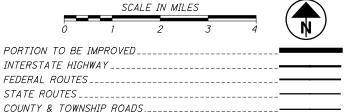
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BEGIN PROJEC SUBSTRUCTURE AND DECK

LOCATION MAP

LATITUDE: 39° 09′ 03″ LONGITUDE: 84° 32′ 24″

OTHER ROADS



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7/28/00 I-2.4

TNDEY OF CHEETC

	IR	75	IR.	74	DIRECTIONA	L ROADWAY
DESIGN DESIGNATION	SOUTH OF MITCHELL	SOUTH OF IR 74	WEST OF BEEKMAN	EAST OF BEEKMAN	IR 75 NB TO IR 74 WB	IR 74 EB TO IR 75 SB
CURRENT ADT (2010)	149,400	152,100	75,000	88,300	25,300	25,300
DESIGN YEAR ADT (2030)	174,300	179,200	89,300	102,000	29,800	29,800
DESIGN HOURLY VOLUME (2030)	14,640	15,050	8,040	9,180	4,100	4,380
DIRECTIONAL DISTRIBUTION	0.54	0.70	0.72	0.73	1.00	1.00
TRUCKS (24 HOUR B&C)	0.16	0.13	0.15	0.13	0.03	0.08
DESIGN SPEED.	60 MPH	60 MPH	60 MPH	60 MPH	50 MPH	50 MPH
LEGAL SPEED	55 MPH	55 MPH	55 MPH	55 MPH	50 MPH	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE

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DECK AND PARAPET DETAILS - UNIT 1

ENGINEERS SEAL:	ENGINEERS SEAL:
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 20'	FOR STRUCTURES OVER 20' THOMAS E. STORA 66654 THOMAS E. STORA 66654 THOMAS E. STORA 66654 THOMAS E. STORA 66654
SIGNED:	SIGNED:
DATE:	DATE:

7/21/17 TC-21.50

NHS PROJECT

DESIGN	EXCEPTIONS
DESIGN FEA	TURE

STOP. SIGHT DIST SB IR 75 (CURVE 6)
SHOULDER WIDTH - IR 74-1892R BRIDGE
SHOULDER WIDTH - RAMP P 1908S BRIDGE
CURVE RADIUS - RAMP P 1908S BRIDGE
STOP. SIGHT DIST RAMP P 1908S BRIDGE
S.E. RATE - IR 74 EB CURVE 14, 1908R BRIDGE

PLAN PREPARED BY:

The DBT confirms that the record drawings have been updated to incorporate all red-lined changes and have been approved by the appropriate parties. These updated drawings represent the final and accurate record of the buildable unit's design and construction.

540 WHITE POND DRIVE, STE E AKRON, OH 44320

APPROVAL DATES

4/6/18 4/10/18 4/11/18 4/11/18

4/11/18 4/26/18



SHEET NUMBERS SEE BU-14

Angela Trautman

	BP-2.1	1/11/15			MG2-0.1	1/19/10	HL-10.11	1/19/18	M1-95.50	1/21/11	16-22.10	10/18/13	000	3/2/13	
	BP-2.2	7/18/08	MH-1.2	1/15/16			HL-10.12	1/20/17	MT-95.73	1/19/18	TC-22.20	1/17/14	808	10/16/15	
	BP-2.3	7/18/14			RM-1.1	7/18/14	HL-10.13	1/20/17	MT-98.30	7/21/17	TC-41.30	10/18/13	809	1/19/18	L
	BP-2.4	7/19/13	DM-1.1	7/21/17	RM-4.1	7/21/17	HL-10.15	7/17/15	MT-99.30	1/19/18	TC-42.10	10/18/13	814	7/15/16	
	BP-3.1	7/18/14	DM-1.2	1/18/13	RM-4.3	7/18/14	HL-20.11	4/21/17	MT-101.70	1/17/14	TC-42.20	10/18/13	821	4/20/12	
	BP-6.1	7/19/13	DM-1.3	7/18/14	RM-4.4	7/21/17	HL-20.21	1/19/18	MT-101.75	7/15/16	TC-52.10	10/18/13	832	1/17/14	
\neg	BP-8.1	7/18/08	DM-2.1	1/18/13	RM-4.5	7/21/17	HL-20.24	1/19/18	MT-101.80	1/16/18	TC-52.20	1/19/18	869	10/17/14	_
			DM-4.1	1/15/16	RM-4.6	7/19/13	HL-30.11	1/19/18	MT-101.90	7/21/17	TC-61.30	1/20/17	908	10/20/17	
.	CB-1.1	1/15/16	DM-4.2	7/20/12	A-1-69	7/19/02	HL-30.21	1/17/14	MT-102.20	7/18/14	TC-65.10	1/17/14	914	7/15/16	
=	CB-1.2	1/15/16	DM-4.3	1/15/16	AS-1-15	7/17/15	HL-30.22	1/17/14	MT-104.10	10/16/15	TC-65.11	7/21/17	921	4/20/12	
Ē	CB-1.3	1/15/16	DM-4.4	1/15/16	AS-2-15	1/19/18	HL-30.31	1/17/14	MT-105.10	7/19/13	TC-71.10	1/19/18	939	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			
	CB-2.2	1/15/16	MGS-1.1	1/19/18	GSD-1-96	7/19/02	HL-30.33	1/17/14	TC-7.65	1/15/16					
-77 1 0.50	CB-2.3	1/15/16	MGS-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	\Box	SPECIAL	
	CB-3.1	1/15/16	MGS-3.1	1/19/18	PSID-1-13	7/15/16	HL-40.10	1/20/17	TC-9.30	1/19/18	ITS-14.10	7/17/15			
	CB-3.3	1/15/16	MGS-3.2	1/18/13	RB-1-55	7/19/13	HL-40.20	1/20/17	TC-12.30	1/19/18	ITS-14.11	7/17/15		ROVISIONS	
			MGS-4.1	1/20/17	SBR-1-13	1/14/14	HL-50.11	1/16/15	TC-15.115	10/18/13	ITS-15.10	7/17/15			
	I-2.1	1/15/16	MGS-4.2	7/19/13	SBR-2-13	1/14/14	HL-50.21	1/19/18	TC-16.21	1/19/18	ITS-15.11	7/17/15			
	I-2.2	1/15/16	MGS-4.3	1/18/13	SICD-1-96	7/18/14	MT-95.30	7/21/17	TC-21.10	7/21/17	ITS-50.10	1/19/18			
	I-2.3	1/15/16	MGS-5.2	7/15/16	SICD-2-14	7/18/14	MT-95.31	7/21/17	TC-21.20	1/19/18					

1/19/18 MT-95.32

STANDARD CONSTRUCTION DRAWINGS

7/15/16 VPF-1-90

1/15/16 MGS-5.3

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HAM-75-3.84

HAM-74-1908R

BU-11 BEARINGS,

HAMILTON COUNTY

CITY OF CINCINNATI

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

BUILDABLE UNIT 11 DESCRIPTION

THIS BUILDABLE UNIT 11 COVERS THE STAGE 2 REQUIREMENTS FOR BU-11 BEARINGS, SUBSTRUCTURE AND DECK FOR THE EXISTING HAM-74-1908R BRIDGE, UNITS NOS. 1, 2 AND 6.

LIMITED ACCESS

50-57

SUPPLEMENTAL

SPECIFICATIONS

7/15/16 800-2016 1/19/18

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.

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.

AS-BUILT PLANS

REV. BY	DATE	SHEETS	
1	6/19/19	MISCELLANEOUS UPDATES	3,6,8,10,34,36-39,41,
			45,46,49,61,90,100
2	8/3/20	MISCELLANEOUS UPDATES, UPDATED SIGN TRUSS LOCATION AND SHOULDER GRADE BREAK	2, 3, 5, 6, 20, 22, 23, 34, 35, 38, 50-52, 54, 55, 56A, 58, 63-66, 72-79, 84, 95, 97, 99, 100
3	1/19/21	UPDATED CROSSFRAME CONNECTIONS	45
DATE CO	MPLETED		

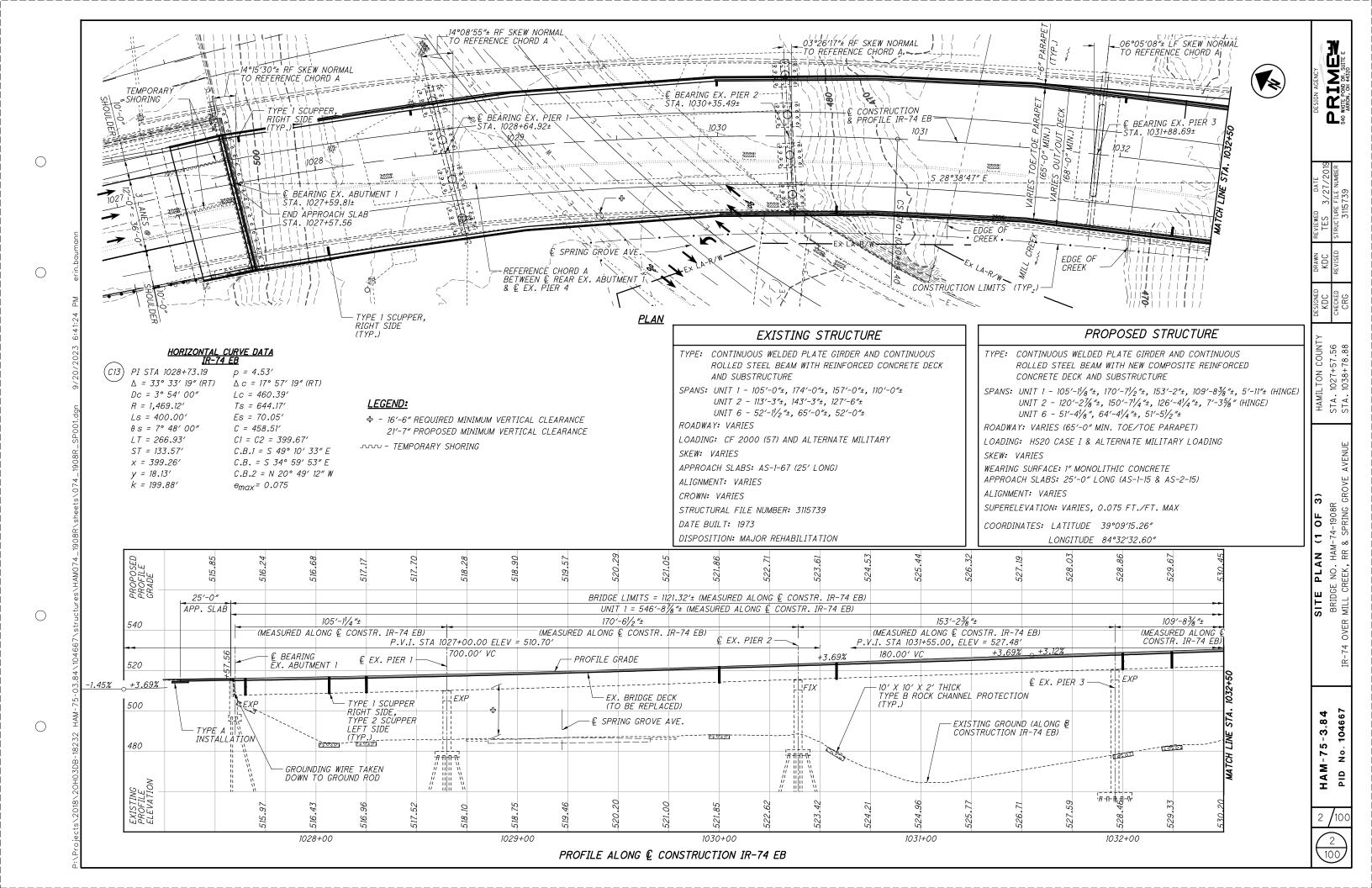


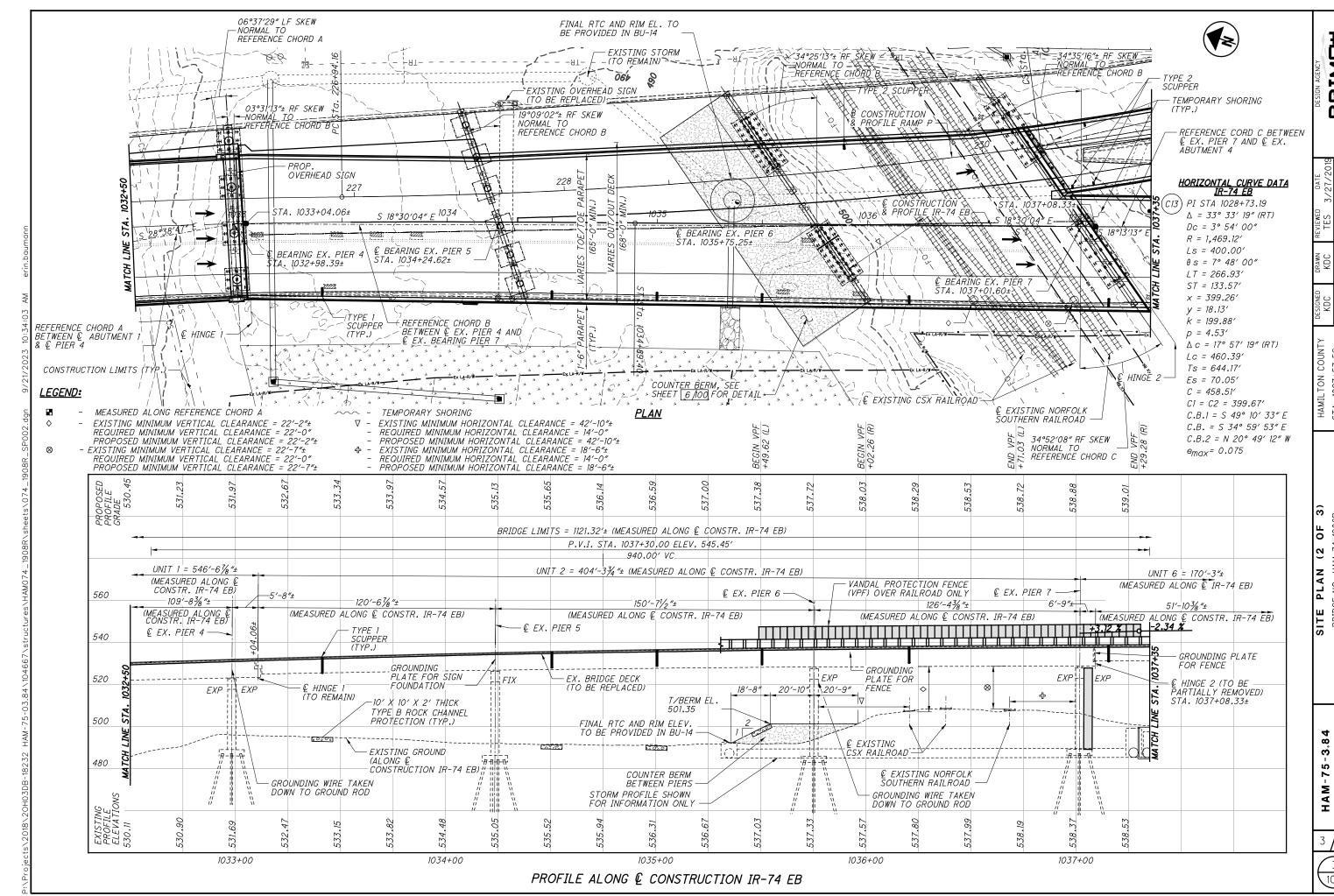
Call Before You Dig 1-800-362-2764 **Utilities Protection** SERVICE (Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 1-800-925-0988

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THITE POND DR. SU

(100)

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HORIZONTAL CURVE DATA IR-74 EB

C14) PI STA 1040+29.02 \(\Delta = 1^\circ 29' 25'' (LT) \)

50mph \(Dc = 0^\circ 30' 00'' \)

\(R = 11,459.16' \)

\(T = 149.03' \)

\(L = 298.05' \)

\(E = 0.97' \)

\(C = 298.04' \)

\(C.B. = S 18^\circ 57' 56'' E \)

SITE PLAN (3 OF 3)
BRIDGE NO. HAM-74-1908R
IR-74 OVER MILL CREEK, RR & SPRING GROVF

PAINTE POND DR. SUTE E

HAM-75-3.84 PID No. 104667

4 /100

4 100

1039+00

PROFILE ALONG € CONSTRUCTION IR-74 EB

1040+00

1038+00

HAMILTON COUNTY STA. 1027+56.76 STA. 1038+78.88

3)

PLAN (1 OF NO. HAM-74-1908R EK, RR & SPRING GF

104667

HAM-75-3.84

__06°05′08″± LF SKEW NORMAL 14°08′55″± RF SKEW NORMAL TO REFERENCE CHORD A TO REFERENCE CHORD A _14°15′30″± RF SKEW NORMAL TO REFERENCE CHORD A · € CONSTRUCTION -03°26'17"± RF SKEW NORMAL TO REFERENCE CHORD A & PROFILE IR-74 EB -----VARIES 16'-2½" TO_ ----17'-5½" (S1-P2-S3) -PHASE CONST. JT. (S1-P2-S2) VARIES 16'-11" TO 18'-2¾" (S1-P2-S2) 1031 © BEARING EX. PIER 1-STA. 1028+64.92± TEMPORARY SHORING 1032 - PHASE CONST. JT. (S1-P2-S1) € BEARING EX. PIER 2 STA. 1030+35.49± VARIES 34'-10¹/4" TO 38'-3¹/₄" (S1-P2-S1)| © BEARING EX. ABUTMENT 1 STA. 1027+59.81± © BEARING EX. PIER 3 STA. 1031+88.69± - END APPROACH SLAB - STA. 1027+57.56 & SPRING GROVE AVE. - EDGE OF CREEK REFERENCE CHORD A BETWEEN © REAR EX. ABUTMENT 1 AND © EX. PIER 4 CONSTR. LIMITS (TYP.) - EDGE OF CREEK -10 DX 10' X 2' THICK TYPE B ROCK CHANNEL PROTECTION (TYP.) ALONG REFERENCE 107′-9¾″± 167′-107/8″± 149'-11¹/2"± 110′-3¾″± CHORD A -TYPE 1 SCUPPER RT., TYPE 2 SCUPPER LT. (TYP.) <u>PLAN</u>

HORIZONTAL CURVE DATA IR-74 EB

(C13) PI STA 1028+73.19 $\Delta = 33^{\circ} 33' 19'' (RT)$

 \bigcirc

 \bigcirc

Dc = 3° 54′ 00″

R = 1,469.12'

Ls = 400.00'

θs = 7° 48′ 00″

LT = 266.93'

ST = 133.57' x = 399.26'

y = 18.13'

k = 199.88'

p = 4.53'

 $\Delta c = 17^{\circ} 57' 19'' (RT)$

Lc = 460.39'

Ts = 644.17'

Es = 70.05'

C = 458.51'

C.B.1 = S 49° 10′ 33″ E

C.B. = S 34° 59′ 53″ E

C.B.2 = N 20° 49' 12" W

C1 = C2 = 399.67'

e_{max}= 0.075

<u>LEGEND</u>

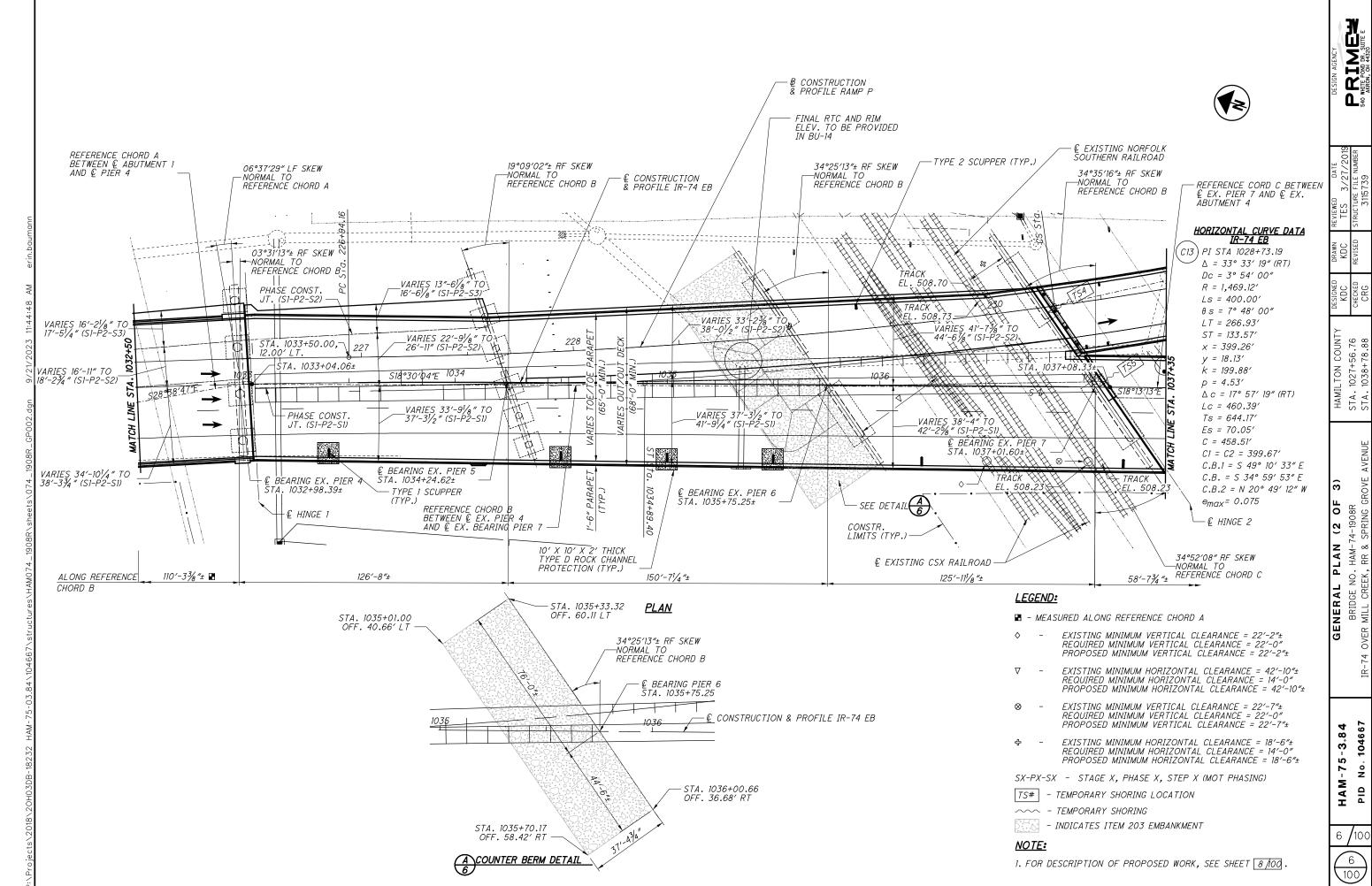
SX-PX-SX - STAGE X, PHASE X, STEP X (MOT PHASING)

- TEMPORARY SHORING LOCATION

~~~ - TEMPORARY SHORING

### NOTE:

1. FOR DESCRIPTION OF PROPOSED WORK, SEE SHEET 8 /100.



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THITE POND DR. SUITE E **T**<sup>§</sup>

GENERAL PLAN (3 OF BRIDGE NO. HAM-74-1908R VER MILL CREEK, RR & SPRING G

104667 HAM-75-3.84

& CONSTRUCTION & PROFILE RAMP P -34°40'35"± RF SKEW

—NORMAL TO |||
REFERENCE CHORD C © BEARING EX. ABUTMENT 4 STA. 1038+76.06± ||| © CONSTRUCTION & PROFILE IR-74 EB 34°49′36″± RF SKEW NORMAL TO REFERENCE CHORD C 34°48′04″± RF SKEW NORMAL TO REFERENCE CHORD C BEGIN APPROACH SLAB STA. 1038+78.88 ₹₹#77 © BEARING EX. PIER 18 STA. 1037+60.25± VARIES 18'-6" TO 19'-51/2" (S1-P2-S2) TEMPORARY SHORING (TYP.) S 18° 13' 13" E 1038 1040 - PHASED CONST. JŤ <del>(SI-P2<sub>T</sub>SI)</del> VARIES 30'-85/6" TO\_ 34'-91/6" (SI-P2-SI) € BEARING EX. PIER 19 STA. 1038+24.61± REFERENCE CHORD C BETWEEN & EX. PIER 7 AND & EX. ABUTMENT 4 10' X 10' X 2' THICK TYPE B ROCK CHANNEL TYPE 2 SCUPPER (TYP.) CONSTRUCTION LIMITS (TYP.) PROTECTION (TYP.) 58′-7¾ ″± 64'-41/4"± ALONG REFERENCE CHORD C 51'-51/2"± <u>PLAN</u>

# HORIZONTAL CURVE DATA IR-74 EB

C14) PI STA 1040+29.02 Δ = 1° 29′ 25″ (LT) 50mph Dc = 0° 30′ 00″ R = 11,459.16' T = 149.03' L = 298.05' E = 0.97' C = 298.04' C.B. = S 18° 57′ 56″ E

<u>LEGEND</u>

 $\bigcirc$ 

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 $\bigcirc$ 

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

- TEMPORARY SHORING LOCATION

~~~ - TEMPORARY SHORING

SBR-1-13 REVISED 01-14-14 *VPF-1-90 REVISED 01-19-18*

REVISED 07-19-02 REVISED 07-17-15

DESIGN SPECIFICATIONS:

STANDARD DRAWINGS:

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2005 INTERIM SPECIFICATIONS AND THE 2004 ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS-20 AND ALTERNATE MILITARY LOADING

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SF WAS NOT INCLUDED.

DESIGN STRESSES:

CONCRETE CLASS QC3 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE) CONCRETE CLASS QC3 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) EXISTING CONCRETE CLASS C - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) EXISTING REINFORCING STEEL - ASTM A615, A616 OR A617, GRADE 40, MINIMUM YIELD STRENGTH 40 KSI, EPOXY COATED

NEW REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60 KSI, EPOXY COATED

EXISTING STRUCTURAL STEEL - ASTM A36 - GRADE 36 - YIELD STRENGTH 36 KSI. NEW STRUCTURAL STEEL - ASTM A709 GRADE 50 - 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.

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.

ITEM 202, REMOVAL MISC .: EXISTING DRAINAGE CLEANOUT:

WORK UNDER THIS ITEM SHALL INCLUDE THE CLEANOUT OF EXISTING SCUPPERS AND DOWNSPOUTS PRIOR TO THE REDIRECTING OF TRAFFIC FOR PHASED CONSTRUCTION. THE EXISTING SCUPPERS AND DOWNSPOUTS SHALL BE CLEARED OF ANY EXISTING DEBRIS AND SHALL BE FULLY FUNCTIONAL DURING THE MAINTENANCE OF TRAFFIC PHASES.

ITEM 202. PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN AS PER PLANS

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.

STRUCTURE GENERAL NOTES

PROTECTION OF STEEL SUPPORT SYSTEMS:

BEFORE DECK SLAB CUTTING IS PERMITTED LAYOUT AS BUILT BEAM CENTERLINE LOCATIONS ON THE SURFACE OF THE DECK. VERIFY CONCRETE DEPTH OF DECK BY DRILLING SMALL PILOT HOLES TO THE TOP OF BEAM PRIOR TO SAWCUTTING. DECK CUTS OVER OR WITHIN 2" OF FLANGE EDGE SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING THE CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. IF REQUIRED, AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEERS APPROVAL BEFORE PERFORMING REPAIR.

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 TO THE EXISTING STEEL AND SUBSTRUCTURE TO REMAIN.

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 IN THE DIRECTION OF THE MAIN STRESSES.

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, PORTIONS OF THE EXISTING ABUTMENT SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILLNOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

ITEM 203, EMBANKMENT, AS PER PLAN:

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

ITEM 509, EPOXY COATED REINFORCING STEEL, AS PER PLANS

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO 709.00.

ITEM 512 SEALING OF CONCRETE SURFACES, AS PER PLAN. (PERMANENT GRAFFITI 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.

IN ADDITION TO THE LIMITS DETAILED IN THE PLANS, WORK UNDER THIS ITEM SHALL INCLUDE ALL EXPOSED SURFACES OF EXISTING PIERS EXCEPT FOR THE TOP SURFACE OF THE PIER CAP.

EPOXY-URETHAN SEALER WAS APPLIED ON ABUTMENTS, EXISTING WINGWALLS, AND DECK SURFACES. NON-EPOXY URETHANE SEALER, CHEMMASTER TEXTURE DOT, WAS APPLIED AT PARAPETS AND EXISTING PIERS 3,5,6,18, AND 19.

ITEM 512 SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN

APPLY HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) TO FILL AND SEAL CRACKS IN THE CONCRETE APPROACH SLAB. HMWM CAN BE USED ON NEW DECKS THAT HAVE EXTENSIVE CRACKS AND COLD JOINTS.

ITEM 512 TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN. AS PER PLAN APPLY GRAVITY-FED RESIN (GFR) TO FILL AND SEAL CRACKS IN THE CÓNCRETE BRIDGE DECK. GFR IS COST EFFECTIVE WHEN USED TO FLOOD DECK SURFACES WITH WIDESPREAD DECK CRACKING.

ITEM 513. STRUCTURAL STEEL MEMBERS. LEVEL UF. AS PER PLAN:

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD-FABRICATED MEMBERS ACCORDING TO ITEM 513. EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE IN ACCORDANCE WITH 501.06, TO THE ENGINEER. PROVIDE THE ENGINEER "AS-BUILT" DRAWINGS ACCORDING TO 513.06, EXCEPT 501.04 DOES NOT APPLY. UPON RECEIPT OF THE ENGINEER'S ACCEPTANCE, SUPPLY A COPY OF THE DRAWINGS, ACCORDING TO SUPPLEMENT 1002, TO THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING NEW CROSSFRAME MEMBERS AT EXISTING PIER NUMBERS 2. 5. 7. AND 18 AS DETAILED IN THE PLANS. CROSSFRAMES SHALL BE SHOP PRIMED AND INSTALLED PRIOR TO BEGINNING ITEM 514 FIELD PAINTING OPERATIONS. ALL REQUIREMENTS OF CMS 513 APPLY TO THE SHOP FABRICATION OF THE CROSSFRAME MEMBERS AND ASSOCIATED CONNECTION PLATES.

PROPOSED WORK:

- 1. REPLACE DECK WITH COMPOSITE DECK AND PARAPETS.
- 2. WELD ALL EXISTING CROSSFRAME STIFFENERS TO TOP & BOTTOM FLANGES.
- 3. PREP AND PAINT NEW AND EXISTING STRUCTURAL STEEL TO REMAIN.
- 4. REPLACE BEARINGS AT PIERS 1, 3, 6 AND 19 AND AT THE HINGES. 5. REPLACE ALL ABUTMENT BEARINGS WITH ELASTOMERIC BEARINGS
- 6. REPLACE APPROACH SLAB AND APPROACH PAVEMENT.
- 7. REPLACE REAR EXPANSION JOINT AND TOP OF BACKWALL DOWN TO APPROACH SLAB SEAT.
- 8. REPLACE ALL DOWNSPOUTS FROM DECK SURFACE TO GROUND.
- 9. PERFORM SEISMIC RETROFIT TO PIERS.
- 10. ADD STRIP SEAL EXPANSION JOINTS AT ALL INTERMEDIATE JOINTS OVER PIERS OR HINGES.
- 11. CONSTRUCT 10' WIDE COUNTER BERM ON WEST SIDE OF PIER 6.
- 12. SEAL SUPERSTRUCTURE AND SUBSTRUCTURE, AS SHOWN IN THE PLANS.

ITEM 514, FIELD PAINTING STRUCTURAL STEEL, FINISH COAT:

IN ACCORDANCE WITH CMS 514, ALL NEW AND EXISTING STRUCTURAL STEEL SHALL BE PREPPED AND PAINTED WITH THE OZEU COATING SYSTEM. THE FINISH COAT SHALL BE FEDERAL COLOR 595B-34058 (DARK GREEN). SHERWIN WILLIAMS DOT HP ACRYLIC URETHANE USED FOR REPAIRS ON ABUTMENT NO. 1 CROSS FRAMES AND UNIT 6 GIRDER REPAIRS.

CONSTRUCTION OF DECK:

THE REMOVAL OF THE DECK INCLUDES FIELD SURVEY OF THE BOTTOM OF EXISTING GIRDERS/BEAMS BEFORE AND AFTER DECK REMOVAL TO OBTAIN THE REBOUND. THE REBOUND WILL BE INPUT INTO A SPREADSHEET PROVIDED TO THE CONTRACTOR BY THE ENGINEER OF RECORD TO OBTAIN SCREED ELEVATIONS REQUIRED FOR DECK PLACEMENT OPERATIONS. A PDF OF THIS SPREADSHEET SHALL BE INCLUDED WITH THE AS-BUILT PLANS.

TEMPORARY SHORING:

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

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 2.60 KIPS.

A MINIMUM 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.

VANDAL PROTECTION FENCING:

VANDAL PROTECTION FENCING IS REQUIRED OVER RAILROAD RIGHT-OF-WAY.

INSTALL FENCING FOR EACH CONSTRUCTION PHASE PRIOR TO OPENING THAT PHASE TO VEHICULAR TRAFFIC.

MAINTENANCE OF TRAFFIC:

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

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EXTERIOR BEAMS AT HINGE 1 AND HINGE 2 SHALL ALSO BE BONDED WITH STRANDED

STRUCTURE GENERAL NOTES

RAILROAD 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.

CSXT MAY REQUIRE THE CONTRACTOR TO INSTALL FILTER FABRIC OVER THE TRACK(S) AND BALLAST TO PREVENT ANY CONSTRUCTION DEBRIS FROM FOULING THE BALLAST. THIS WILL BE DETERMINED DURING ACTUAL CONSTRUCTION ACTIVITIES BY CSXT OR ITS REPRESENTATIVE. FABRIC WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.

TEMPORARY CONSTRUCTION CLEARANCE - ENSURE ALL FALSEWORK, BRACING OR FORMS HAVE A MINIMUM HORIZONTAL CLEARANCE OF 12 FEET MEASURED PERPENDICULAR TO THE CENTERLINE OF THE NEAREST TRACK. ANY TEMPORARY VERTICAL CLEARANCE LESS THAN 23', OVER THE TRACKS, WILL REQUIRE SPECIAL PERMISSION. WITH NO GUARANTEE OF APPROVAL FROM CSX.

THE MINIMUM ALLOWABLE TEMPORARY CLEARANCES SHALL BE INDICATED ON THE GENERAL PLAN AND ELEVATION SHEET. A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF HIGHEST RAIL AND A MINIMUM HORIZONTAL CLEARANCE OF 14'-0" SHALL BE MAINTAINED AT ALL TIMES

MEANS AND METHODS - THE CONTRACTOR SHALL DEVELOP A DETAILED SUBMISSION INDICATING THE PROGRESSION OF WORK WITH SPECIFIC TIMES WHEN TASKS WILL BE PERFORMED FOR WORK ACTIVITIES THAT ARE ON OR IN THE VICINITY OF THE CSXT PROPERTY. THIS SUBMISSION MAY REQUIRE A WALKTHROUGH AT WHICH TIME CSXT AND/OR THE REPRESENTATIVE WILL BE PRESENT. WORK WILL NOT BE PERMITTED TO COMMENCE UNTIL THE CONTRACTOR HAS PROVIDED CSXT WITH A SATISFACTORY PLAN THAT THE PROJECT WILL BE UNDERTAKEN WITHOUT SCHEDULING, PERFORMANCE OR SAFETY RELATED ISSUES. PROVIDE A LISTING OF THE ANTICIPATED EQUIPMENT TO BE USED. THE LOCATION OF ALL EQUIPMENT TO BE USED AND ENSURE A CONTINGENCY PLAN OF ACTION IS IN PLACE SHOULD A PRIMARY PIECE OF EQUIPMENT MALFUNCTION. ALL WORK IN THE VICINITY OF CSXT PROPERTY THAT HAS THE POTENTIAL OF AFFECTING CSXT TRAIN OPERATIONS MUST BE SUBMITTED AND APPROVED BY CSXT PRIOR TO WORK BEING PERFORMED. THIS SUBMISSION WILL ALSO INCLUDE A DETAILED NARRATIVE DISCUSSING THE COORDINATION OF PROJECT SAFETY ISSUES BETWEEN CONTRACTOR, CSXT AND THE REPRESENTATIVE. THE NARRATIVE SHALL ADDRESS PROJECT LEVEL COORDINATION AND DAY TO DAY, SPECIFIC WORK OPERATIONS INCLUDING CRANE AND EQUIPMENT OPERATIONS, ERECTION PLANS AND TEMPORARY WORKS.

DEMOLITION PROCEDURES, ERECTION PROCEDURES, AND PAINT CONTAINMENT PROCEDURES ARE REQUIRED TO BE SUBMITTED TO CSXT, OR THE REPRESENTATIVE, IN ACCORDANCE WITH THE CSXT CONSTRUCTION SUBMISSION CRITERIA, LAST REVISED APRIL 14, 2015. THE CSXT CONSTRUCTION SUBMISSION CRITERIA SHOULD BE REFERRED TO AND COMPLIED WITH PRIOR TO THE PREPARATION OF SUBMISSIONS, AS IT CONTAINS SPECIFIC REQUIREMENTS THAT COULD IMPACT THE CONTRACTOR'S MATERIAL SELECTION AND METHODS OR OPERATIONS FOR WORK NEAR THE RAILROAD. REVISIONS TO CONTRACTOR SUBMISSIONS MAY NOT BE FIELD APPROVED. ANY DEVIATION(S) FROM A PREVIOUSLY ACCEPTED PLAN INCLUDING EQUIPMENT SUBSTITUTIONS WILL REQUIRE A FORMAL RESUBMISSION OF THE PROCEDURE FOR REVIEW AND ACCEPTANCE PRIOR TO PERFORMING ANY WORK. A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO MUST SIGN AND SEAL THE PLANS. UP TO THIRTY (30) DAYS WILL BE REQUIRED TO REVIEW ALL CONSTRUCTION SUBMISSIONS. UP TO AN ADDITIONAL THIRTY (30) DAYS WILL BE REQUIRED TO REVIEW ANY SUBSEQUENT SUBMISSIONS RETURNED NOT APPROVED.

EMERGENCY ACTION PLAN - SUBMIT AN EMERGENCY ACTION PLAN INDICATING THE LOCATION OF THE SITE, CONTACT NUMBERS, ACCESS TO THE SITE, INSTRUCTIONS FOR EMERGENCY RESPONSE AND LOCATION OF THE NEAREST HOSPITALS. THIS PLAN SHOULD COVER ALL ITEMS REQUIRED IN THE EVENT OF AN EMERGENCY AT THE SITE INCLUDING FIRE SUPPRESSION. COORDINATE THE EMERGENCY ACTION PLAN WITH THE SAFETY RELATED DISCUSSION OF THE MEANS AND METHODS SUBMISSION DISCUSSED ABOVE. THE PLAN SHOULD ALSO INCLUDE A METHOD TO PROVIDE THIS INFORMATION TO EACH PROJECT WORKER FOR EACH DAY ON SITE.

RAILROAD REQUIREMENTS CONTINUED:

CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT RIGHT-OF-WAY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT-GRADE CROSSINGS WILL BE ALLOWED.

"ONE CALL" SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATIONS LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE TWO (2) DAYS IN ADVANCE OF THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST FROM THE CONTRACTOR OR AGENCY, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG RAILROAD UNDERGROUND SIGNAL, COMMUNICATION, AND POWER LINES IN THE AREA TO BE DISTURBED FOR THE CONTRACTOR. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL, COMMUNICATION. OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION BY THE CONTRACTOR AND PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF A RAILROAD SIGNAL REPRESENTATIVE.

ALL UTILITY INSTALLATIONS OR RELOCATIONS ON NORFOLK SOUTHERN RIGHT-OF-WAY THAT ARE REQUIRED IN CONJUNCTION WITH THIS PROJECT CAN BE INSTALLED OR RELOCATED AS PART OF THE PROJECT PROVIDED THE CONSTRUCTION IS PERFORMED BY THE PROJECT CONTRACTOR OR PROJECT CONTRACTOR'S SUB-CONTRACTOR, HOWEVER, THE UTILITY MUST SUBMIT AN APPLICATION FOR THE INSTALLATION OR RELOCATION TO AECOM FOR APPROPRIATE HANDLING FOR LICENSE AGREEMENT AND APPLICABLE FEES, FOR UTILITY APPLICATIONS GO TO: WWW.NSCORP.COM > REAL ESTATE > NS SERVICES > WIRE, PIPELINE, AND FIBER OPTICS PROJECTS. NOTE: LICENSE AGREEMENT MUST BE EXECUTED PRIOR TO UTILITY BEING INSTALLED OR RELOCATED.

FOR PROJECTS REQUIRING MORE THAN 30 CONSECUTIVE DAYS OF FLAGGING, CONTRACTOR SHALL PROVIDE THE FLAGMAN A SMALL WORK AREA WITH A DESK/COUNTER AND CHAIR WITHIN THE FIELD/SITE TRAILER, INCLUDING THE USE OF BATHROOM FACILITIES, WHERE THE FLAGMAN CAN CHECK IN/OUT WITH THE PROJECT, AS WELL AS TO THE FLAGMAN'S HOME TERMINAL. THE WORK AREA SHOULD PROVIDE ACCESS TO TWO (2) ELECTRICAL OUTLETS FOR RECHARGING RADIO(S), AND A LAPTOP COMPUTER; AND HAVE THE ABILITY TO PRINT OFF NEEDED DOCUMENTATION AND ORDERS AS NEEDED AT THE FIELD/SITE TRAILER. THIS SHOULD AID IN MAXIMIZING THE FLAGMAN'S TIME AND EFFICIENCY ON THE PROJECT.

THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED TO MATCH THE APPROVED FINAL PLANS BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF NORFOLK SOUTHERN PUBLIC PROJECTS ENGINEER.

FINAL AS-BUILT DRAWINGS:

THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING ACTUAL VERTICAL AND HORIZONTAL CLEARANCES AS WELL AS DEPTH, SIZE AND LOCATION OF ALL FOUNDATION COMPONENTS TO NORFOLK SOUTHERN RAILROAD AND CSX RAILROAD.

THE UTILITY(IES) SHALL BEAR 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.

LIGHTING:

SEE BU-19 FOR REQUIRED LIGHTING WORK.

EXISTING UNDERPASS LIGHTING, IF REMOVED TO PERFORM REQUIRED WORK, SHALL BE STORED FOR REUSE.

IF ANY DAMAGE OCCURS DURING REMOVAL, OR RE-ERECTION OF THE LIGHTS, THE CONTRACTOR SHALL REPLACE THE AFFECTED LIGHTING FIXTURE WITH THE SAME MANUFACTURER AND MODEL.

THE SAME LEVEL OF LIGHTING, AS CURRENTLY EXISTS, SHALL BE MAINTAINED WITH TEMPORARY LIGHTING WHILE PERMANENT LIGHTING IS OFF-LINE.

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".

REFURBISH BEARING DEVICE, AS PER PLAN:

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY CLEAN AND PAINT THE EXISTING BEARINGS AT PIER NUMBERS 2, 4, 5, 7, AND 18. INCLUDED SHALL BE THE HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, AND LUBRICATING SLIDING SURFACES. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING".

STAY-IN-PLACE FORMS:

STAY-IN-PLACE FORMS SHALL ONLY BE USED OVER MILL CREEK (SPANS 3 AND 4 OF UNIT 1) AND THE RAILROAD (SPAN 7 OF UNIT 2). STAY-IN-PLACE FORMS SHALL BE GALVANIZED CONFORMING TO CMS 508.01 THRU 508.03.

FORMS SHALL NOT BE INSTALLED AT OVERHANGS, WITHIN EIGHT FEET OF EXPANSION JOINTS, AND WITHIN FOUR FEET OF ALL THROUGH DECK DRAINAGE SYSTEMS. FULL UNIT WIDTH FORMS ARE EXPECTED TO BE PROVIDED WITHIN THE APPROXIMATE

THE FLUTES OF STAY-IN-PLACE FORMS SHALL BE FILLED WITH CONCRETE. THE DESIGN INCLUDES ALLOWANCE FOR 15 PSF OVER THE PROJECTED PLAN AREA OF THE METAL FORMS FOR THE UNIT WEIGHT OF METAL FORMS AND CONCRETE REQUIRED TO FILL THE FORM FLUTES.

MATERIALS- FURNISH FORM, SUPPORT MATERIALS AND HARDWARE CONFORMING TO THE FOLLOWING:

- I. FORM AND SUPPORT MATERIAL, ASTM A653 HAVING A COATING DESIGNATION OF G235, AND CONFORMING TO THE MECHANICAL PROPERTIES THE DESIGN REQUIRES.
- II. PROVIDE DECK FORMS WITH A 2 INCH MINIMUM FORM DEPTH.
- III. PROVIDE MINIMUM MATERIAL THICKNESS AS FOLLOWS: SIP FORMS (20 GAGE), SUPPORT ANGLES (12 GAGE) AND SUPPORT BARS (12 GAGE).

IV. SUPPLY DECK, SELF DRILLING FASTENERS WITH CADIUM PLATING PER ASTM B766 WITH MINIMUM THICKNESS OF 5, TEN THOUSANDS.(0.0005 INCH). THE HEADS OF THESE FASTENERS WILL BE HIGHLY VISIBLE COLOR, RED OR OTHER, TO AID INSPECTION.

HARDWARE SHALL BE DETAILED IN SHOP DRAWINGS.

WELDING- DO NOT WELD SIP FORMS OR THEIR SUPPORTS TO THE STEEL BRIDGE MEMBERS. SIP SUPPORTS MAY BE WELDED TO ANCHORS CAST INTO PRECAST CONCRETE BRIDGE MEMBERS. PERFORM WELDING PER 513.21.

THREADED STUDS SHALL BE WELDED FOR OVERHANG AND PHASE LINE FRMEWORK ON SPANS 3, 4, AND 7 WHERE STAY-IN-PLACE FORMS ARE BEING INSTALLED.

STRUCTURE GROUNDING:

STRUCTURE TO BE GROUNDED IN ACCORDANCE WITH STD. DWG. HL-50.21 FOR EACH RUN OF VANDAL PROTECTION FENCE (VPF) AND THE OVERHEAD SIGN. THE VPF SHALL BE GROUNDED AT PIER 6 AND PIER 7 ON BOTH SIDES OF THE BRIDGE. THE OVERHEAD SIGN SHALL BE GROUNDED AT PIER 5 ON BOTH SIDES OF THE BRIDGE. THE GROUND WIRE SHALL BE EXOTHERMICALLY WELDED TO A GROUND ROD AND RUN UP THE OUTSIDE OF THE ADJACENT PIERS ON EACH SIDE, USING AN INSULATED COPPER CABLE, AND BONDED TO A SURFACE MOUNTED GROUND PLATE ON THE PIER CAP. THE GROUND PLATE SHALL BE EXOTHERMICALLY WELDED TO THE EXTERIOR GIRDER. WHICH CONNECTS THE TOP OF THE GIRDER WITH AN INSULATED COPPER WIRE CONCEALED IN THE DECK AND THE PARAPET TO A SURFACE MOUNTED GROUND PLATE ON THE TOP OF THE PARAPET, WHICH IS EXOTHERMICALLY WELDED TO THE VPF BASE PLATE OR THE OVERHEAD SIGN BASE PLATE.

INSULATED COPPER CABLES AND EXOTHERMIC WELDS ON BOTH SIDES. SEE STANDARD DRAWING HL-50.21 FOR MORE DETAILS.

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STRUCTURE GENERAL NOTES

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:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTI AND CEMENT CONCRETE

499.03, CLASS QC 3, WITH MACRO-SYNTHETIC FIBERS WITH MODIFICATION PER 511.02

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 C1116 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.

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

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:

PORTLAND CEMENT CONCRETE

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

FIBERS FOR CONCRETE

ASTM C 1116, TYPE III

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 CITIG TYPE III SHALL BE ADDED TO

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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

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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.

THE PLACING OF THE DECK AND THE APPROACH SLABS IN THE SAME CONCRETE POUR IS NOT PERMITTED.

DUE TO TRANSVERSE DECK CRACKS ACROSS VARIOUS SECTIONS OF THE BRIDGE DECK E-CHEM EP100HM GRAVITY FED RESIN WAS APPLIED TO THE ENTIRE BRIDGE DECK PER ODOT SPEC 512.06.

BEARING BTW. - BETWEEN

DIA. - DIAMETER

F.F. - FACH FACE

- EXISTING EXP. - EXPANSION

F.A. - FORWARD F.F. - FAR FACE

MAX. - MAXIMUM

NO. - NUMBER

R.A. - REAR ABUTMENT

SPA. - SPACE(D) OR SPACING

STA. - STATION

- TOP

TYP. - TYPICAL

U.N.O. - UNLESS NOTED OTHERWISE

ABBREVIATIONS

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

DWG. - DRAWING EA. - EACH

EL. OR ELEV. - ELEVATION EMB. - EMBEDMENT EQ. - EQUAL

- FORWARD ABUTMENT

JT. - JOINT MIN. - MINIMUM

MOT - MAINTENANCE OF TRAFFIC N.F. - NEAR FACE

N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

REQ'D. - REQUIRED

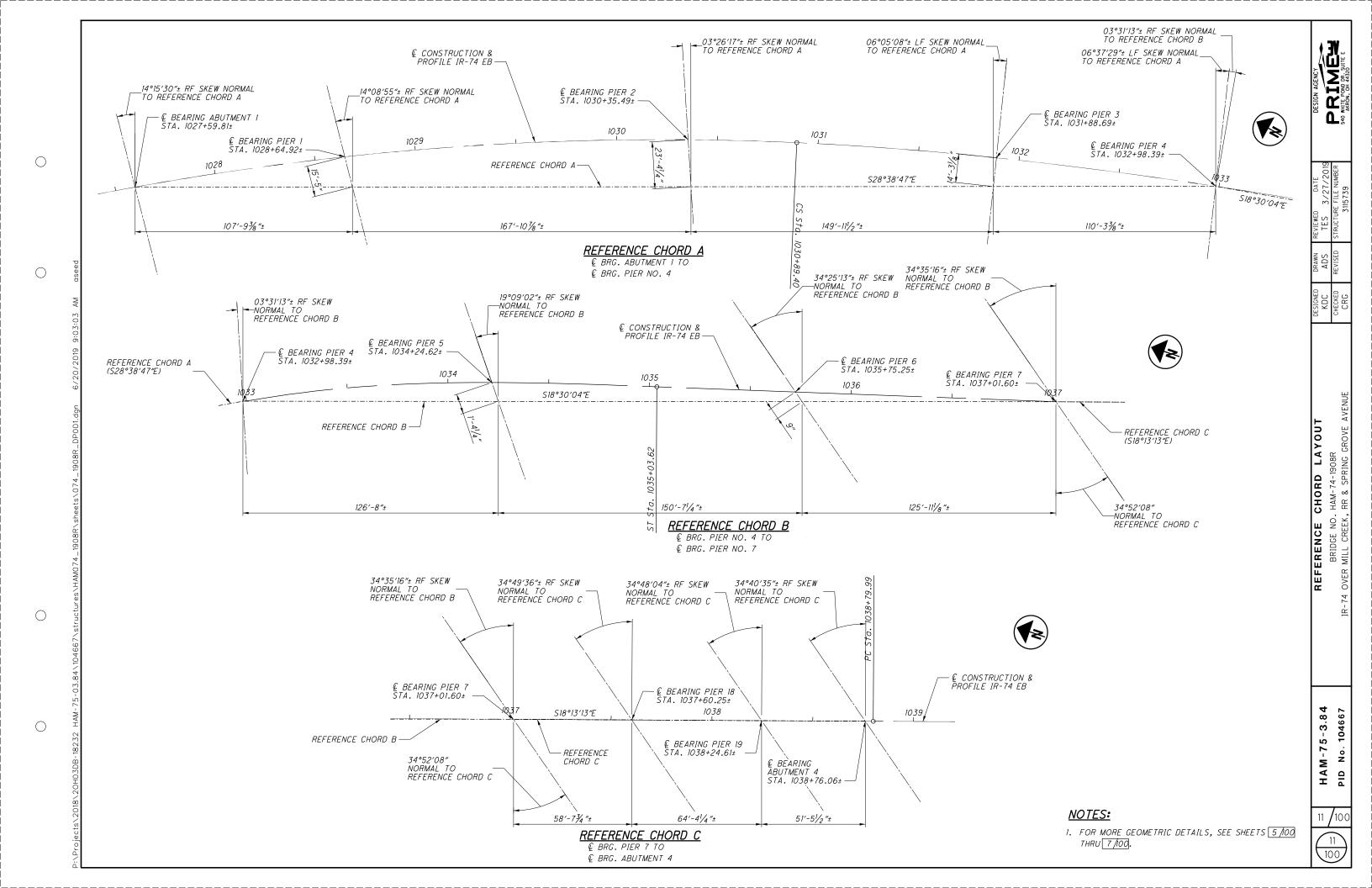
STD. DWG. OR SCD - STANDARD CONSTRUCTION DRAWING STR. - STRAIGHT SQ. - SQUARE

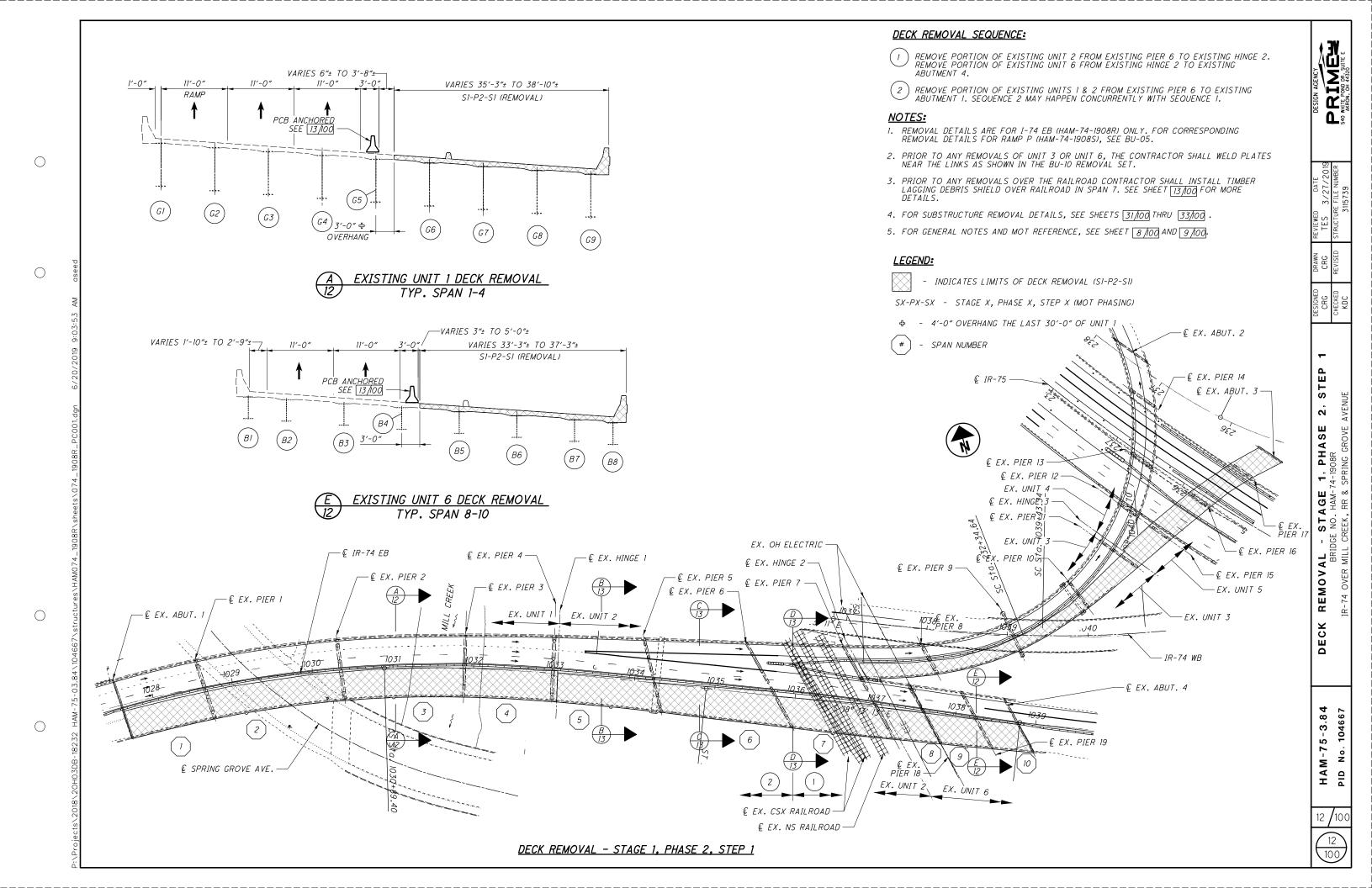
T.B.D. - TO BE DETERMINED T&B - TOP AND BOTTOM

W/ - WITH

H ٩





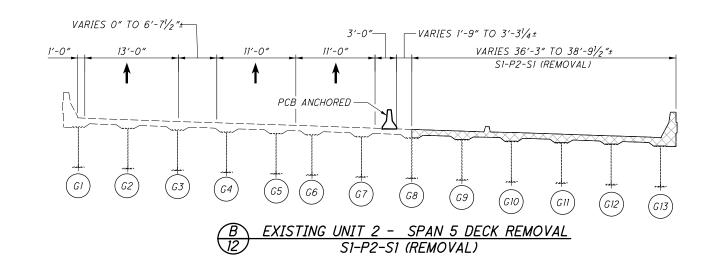


REMOVAL - S BRIDGE 1 IR-74 OVER MILL CRE

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HAM-75-3.84

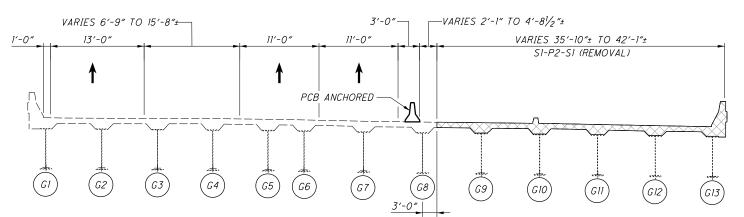
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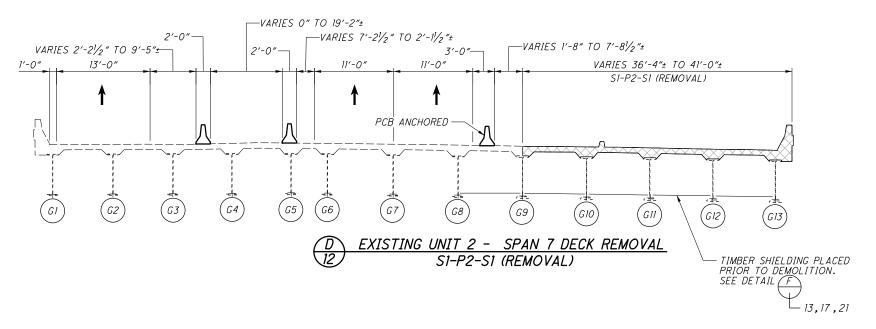
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EXISTING UNIT 2 - SPAN 6 DECK REMOVAL S1-P2-S1 (REMOVAL)



NOTES:

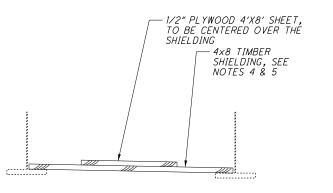
- 1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.
- 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8 100 AND 9 100
- 3. FOR LONGITUDINAL DECK REMOVAL CUT LINES OVER CENTERLINES OF EXISTING GIRDERS OR BEAMS, THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE REMAINING GIRDERS OR BEAMS DURING THE REMOVAL PROCESS. SEE ITEM 202 ON SHEET 8 100 .
- 4. TIMBER SHIELDING WAS DESIGNED FOR 4X8 TIMBERS SPACED ADJACENTLY; THE CONTRACTORS MAY SELECT LARGER TIMBER SIZES.
- 5. THE TIMBER SHIELDING MATERIAL WAS DESIGNED PER LRFD 8.4.6 AND 8.6.2 FOR THE SPRUCE-PINE-FIR (SOUTH) VISUALLY GRADED NO. OTHER TIMBER MATERIALS MAY BE SELECTED FROM THE VISUALLY GRADED SAWN LUMBER TABLE, PROVIDED THAT THE MINIMUM DESIGN VALUES ARE:
 - Eo = 1100 KSI Fo = 0.755 KSI
 - Fo = 0.135 KSI
- 6. THE CONTRACTOR SHALL HAVE THE OPTION TO UTILIZE A COMPARABLE SHIELDING SYSTEM THAT MEETS THE LOADING REQUIREMENTS, PROVIDED THE MANUFACTUREER CAN PROVIDE SPECIFICATIONS AND TESTING RESULTS.
- 7. FOR ADDITIONAL DETAILS AND NOTES ON THE PORTABLE CONCRETE BARRIER (PCB), SEE STANDARD DRAWING PCB-91.

LEGEND:

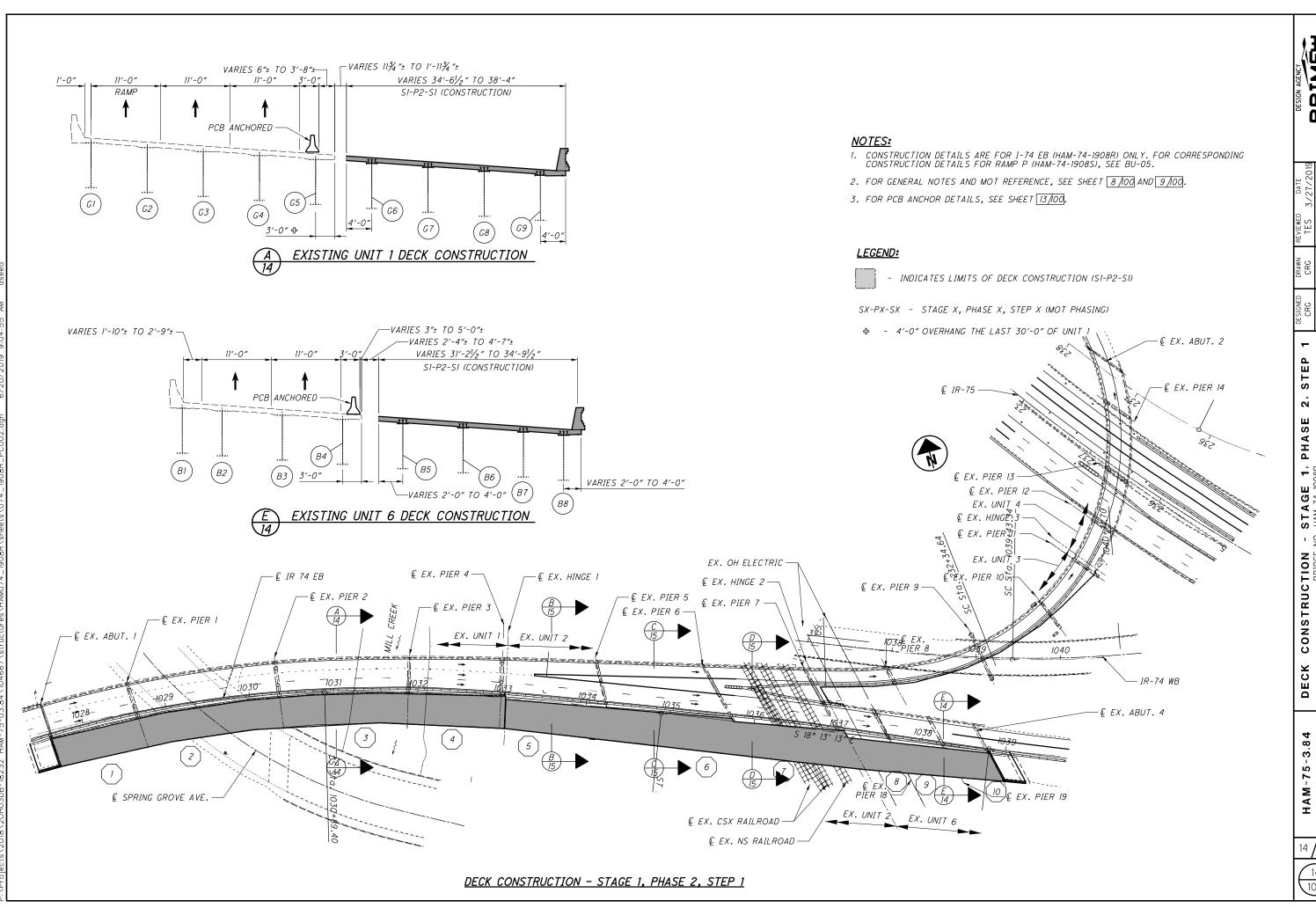
- INDICATES LIMITS OF DECK REMOVAL (SI-P2-SI)

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

| PCB ANCHOR TABLE | | | | | | | | | |
|-----------------------------------|--------------------------|--|--|--|--|--|--|--|--|
| UNIT | # ANCHORS
PER SEGMENT | | | | | | | | |
| UNIT 1 | 3 | | | | | | | | |
| LAST 30'
UNIT 1 | 6 | | | | | | | | |
| UNIT 2 | 4 | | | | | | | | |
| LAST 40' UNIT 2
(SPAN 5 AND 6) | 8 | | | | | | | | |
| UNIT 6 SPAN
8 AND 9 | 3 | | | | | | | | |
| UNIT 6
SPAN 10 | 6 | | | | | | | | |



DEBRIS SHIELDING (ONLY OVER RAILROAD - SPAN 7)



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S40 WHITE POND DR. SUITE E

STAGE . HAM-74-19C , RR & SPRIN . 8 CONSTRUCTION
BRIDGE N
IR-74 OVER MILL CREE

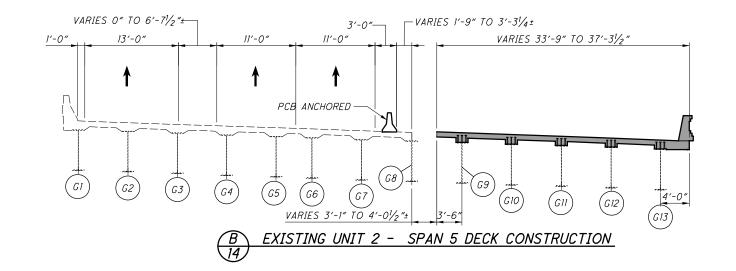
STEP Ŕ PHASE

STAGE 1, I . HAM-74-1908R , RR & SPRING GF

CONSTRUCTION
BRIDGE N
IR-74 OVER MILL CREE

DECK

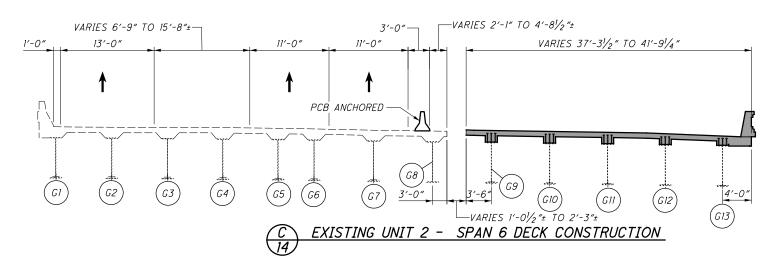
HAM-75-3.84

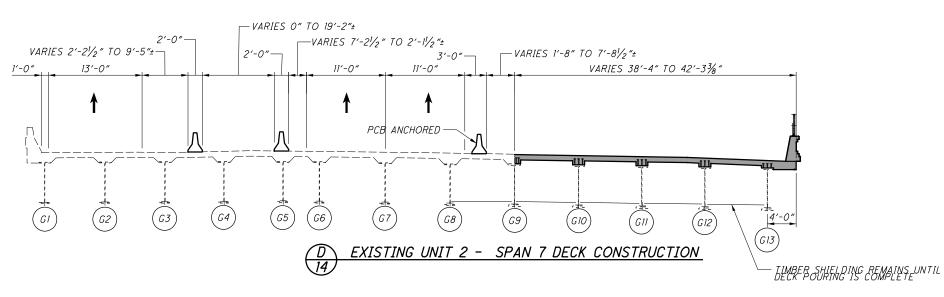


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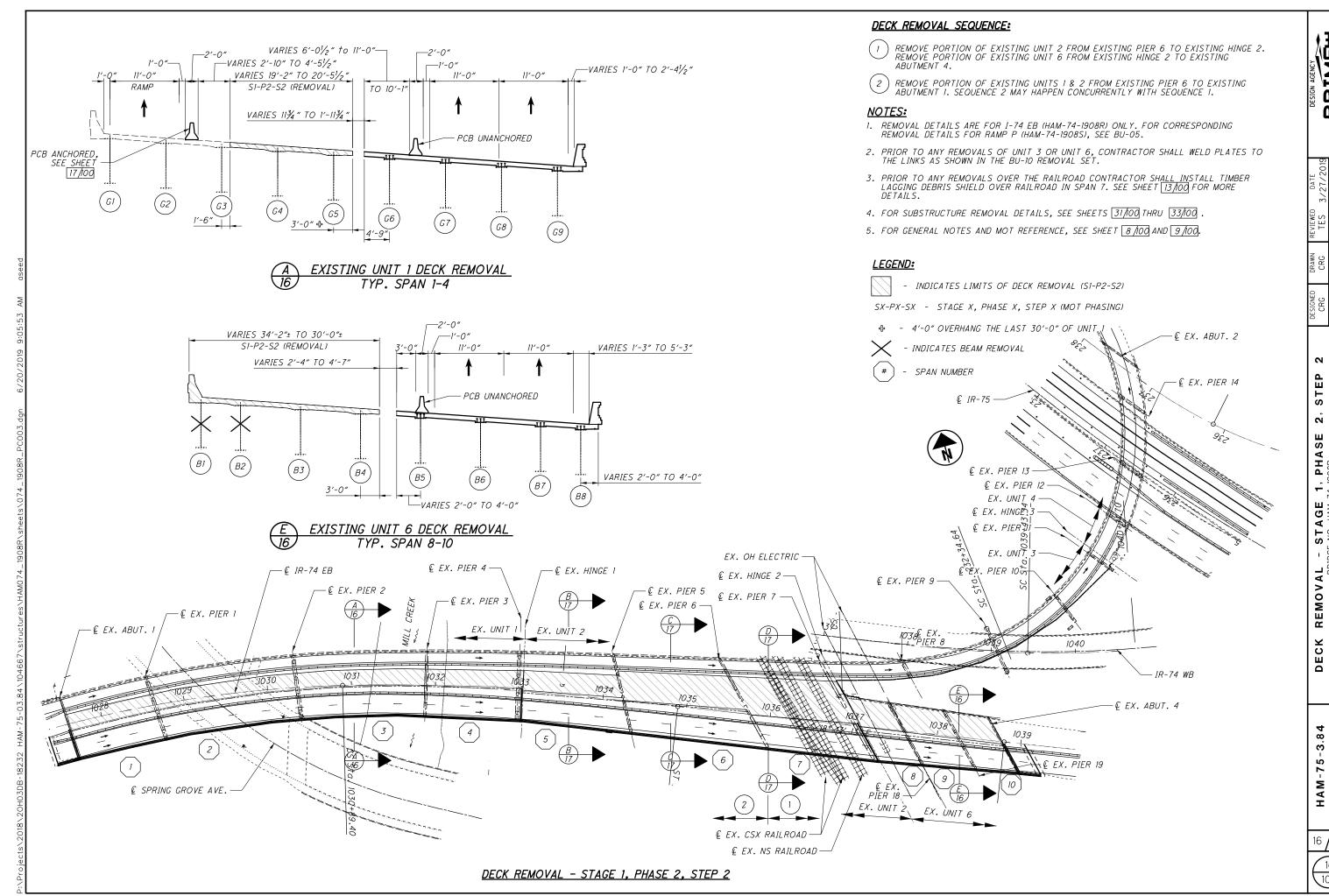
- 1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.
- 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8 100 AND 9 100
- 3. FOR PCB ANCHOR DETAILS, SEE SHEET 13/100.

LEGEND:



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

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



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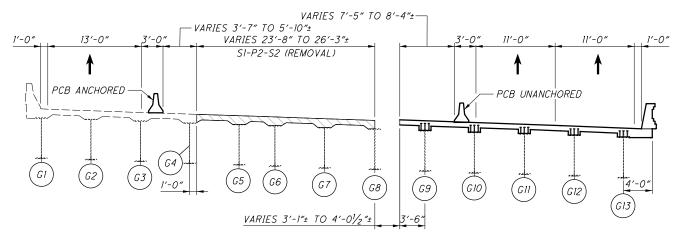
Ś Ŕ 1, PHASE STAGE NO. HAM-7

REMOVAL - S BRIDGE 1 IR-74 OVER MILL CRE

STAGE 1, PHASE SE NO. HAM-74-1908R CREEK, RR & SPRING GROVE A

REMOVAL - S BRIDGE I IR-74 OVER MILL CRE

HAM-75-3.84



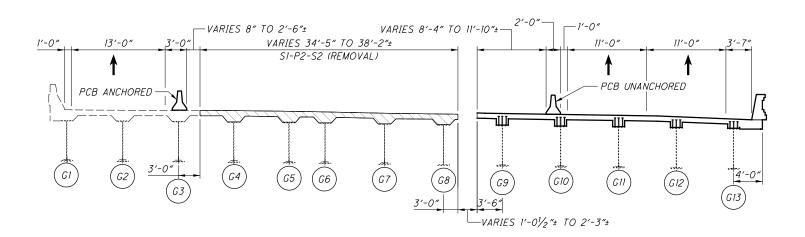
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EXISTING UNIT 2 - SPAN 5 DECK REMOVAL

EXISTING UNIT 2 - SPAN 6 DECK REMOVAL



VARIES 7'-51/2" TO 10'-51/2"± -1'-0" VARIES 2'-6" TO 4'-1"± 13'-0" VARIES 43'-8" TO 48'-2"± 11'-0" S1-P2-S2 (REMOVAL) PCB ANCHORED PCB UNANCHORED GI (G4` G5 G9 (G10` (G11 (G12)(G3 TIMBER LAGGING DEBRIS SHIELD TO BE PLACED PRIOR TO DEMOLITION SEE DETAIL 3 EXISTING UNIT 2 - SPAN 7 DECK REMOVAL

NOTES:

- 1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.
- 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8 100 AND 9 100
- 3. FOR LONGITUDINAL DECK REMOVAL CUT LINES OVER CENTERLINES OF EXISTING GIRDERS OR BEAMS, THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE REMAINING GIRDERS OR BEAMS DURING THE REMOVAL PROCESS. REFER TO ITEM 202 NOTE ON SHEET 8 100.
- 4. FOR DEBRIS SHIELD DETAILS, SEE SHEET 13/100.
- 5. FOR ADDITIONAL DETAILS AND NOTES ON THE PORTABLE CONCRETE BARRIER (PCB), SEE STANDARD DRAWING PCB-91.

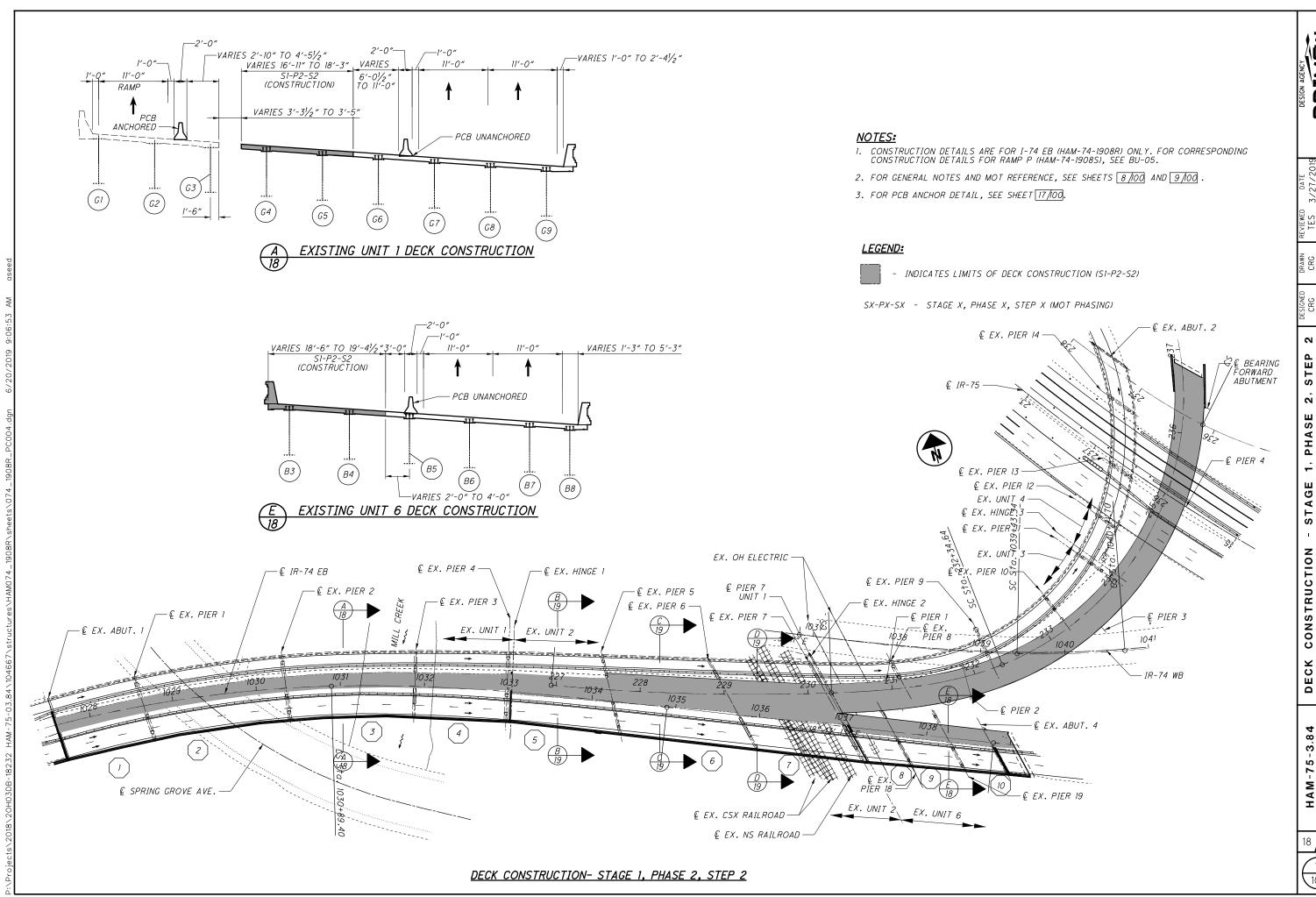
LEGEND:



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

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

| PCB ANCHO | R TABLE |
|------------------------------|--------------------------|
| UNIT | # ANCHORS
PER SEGMENT |
| UNIT 1 | 2 |
| UNIT 2 SPAN 6
(FIRST 65') | 4 |
| REMAINDER UNIT 2 | 2 |



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540 WHITE POND DR. SUITE E AKRON. OH 4430

'n STAGE 1, PHASE

). HAM-74-1908R

K, RR & SPRING GROVE AVENU

· 8 CONSTRUCTION
BRIDGE N
IR-74 OVER MILL CREE

DECK

HAM-75-3.84

STEP

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STAGE 1, PHASE

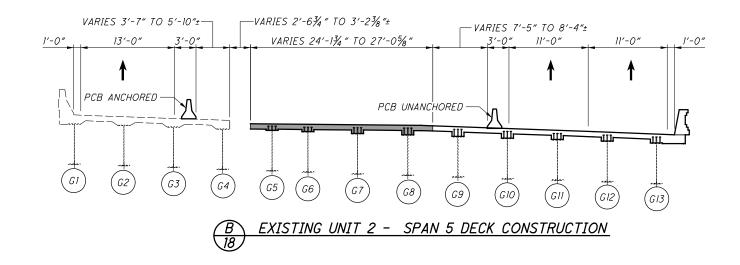
J. HAM-74-1908R

K, RR & SPRING GROVE AVENU

NO. CONSTRUCTION
BRIDGE N
IR-74 OVER MILL CREE

HAM-75-3.84

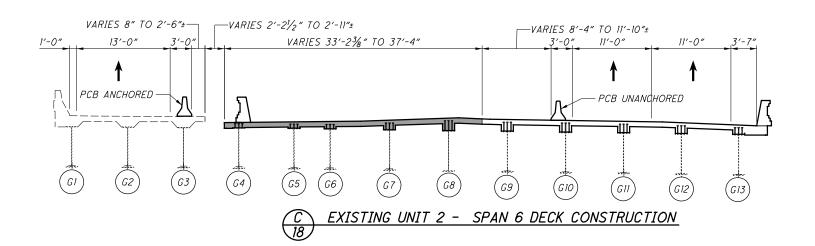
DECK

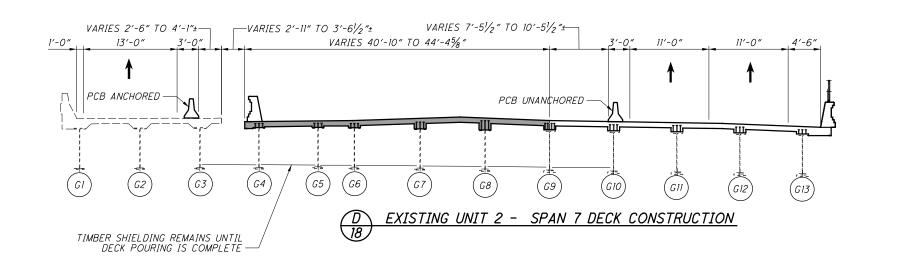


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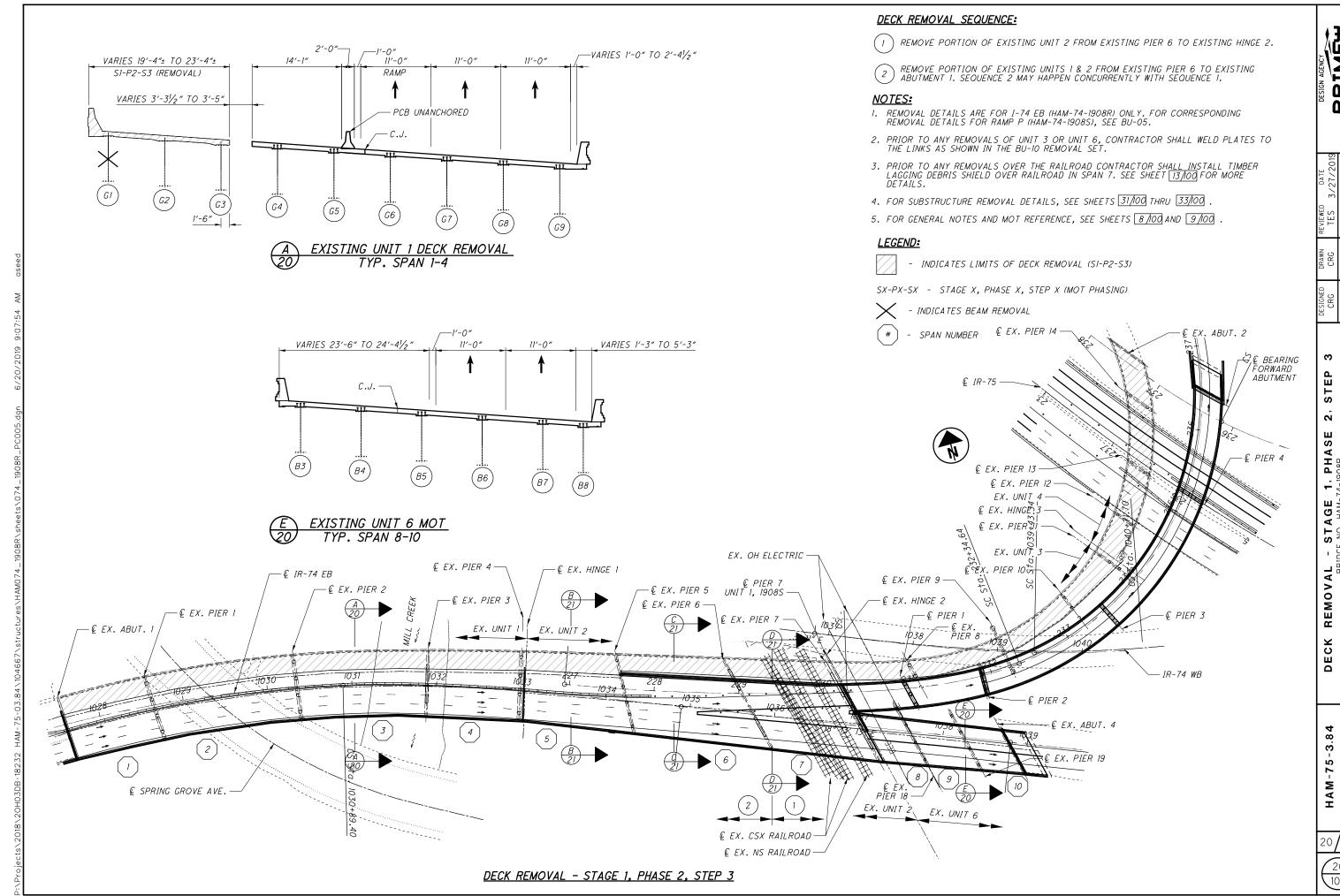
- 1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.
- 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8/100 AND 9/100
- 3. FOR PCB ANCHOR DETAILS, SEE SHEET 17/100.

LEGEND:



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

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



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PRINCE POND DR. SUITE F

TEP Ś Ŕ 1, PHASE 74-1908R

STAGE E NO. HAM-7 REEK, RR & REMOVAL - S BRIDGE | IR-74 OVER MILL CRE

(100

STEP Ŕ

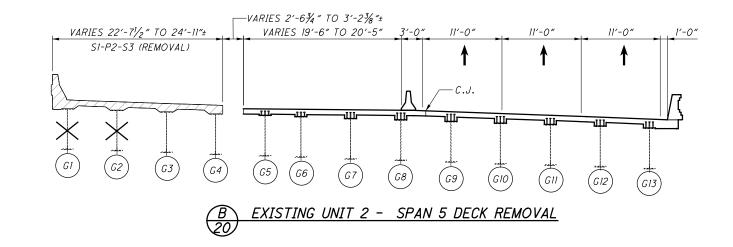
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STAGE 1, PHASE
3E NO. HAM-74-1908R
CREEK, RR & SPRING GROVE A REMOVAL - S BRIDGE P IR-74 OVER MILL CRE

HAM-75-3.84

DECK

100

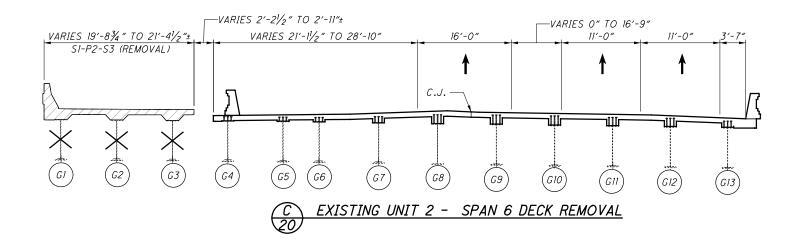


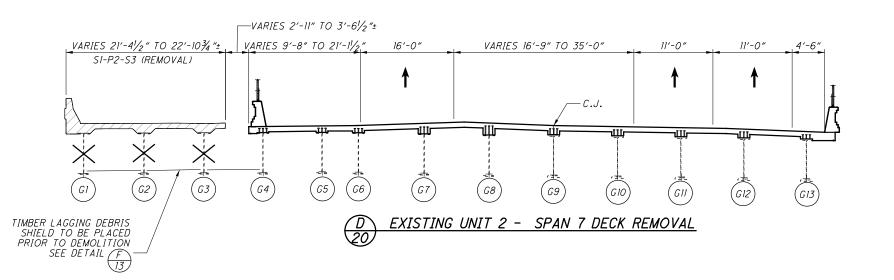
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NOTES:

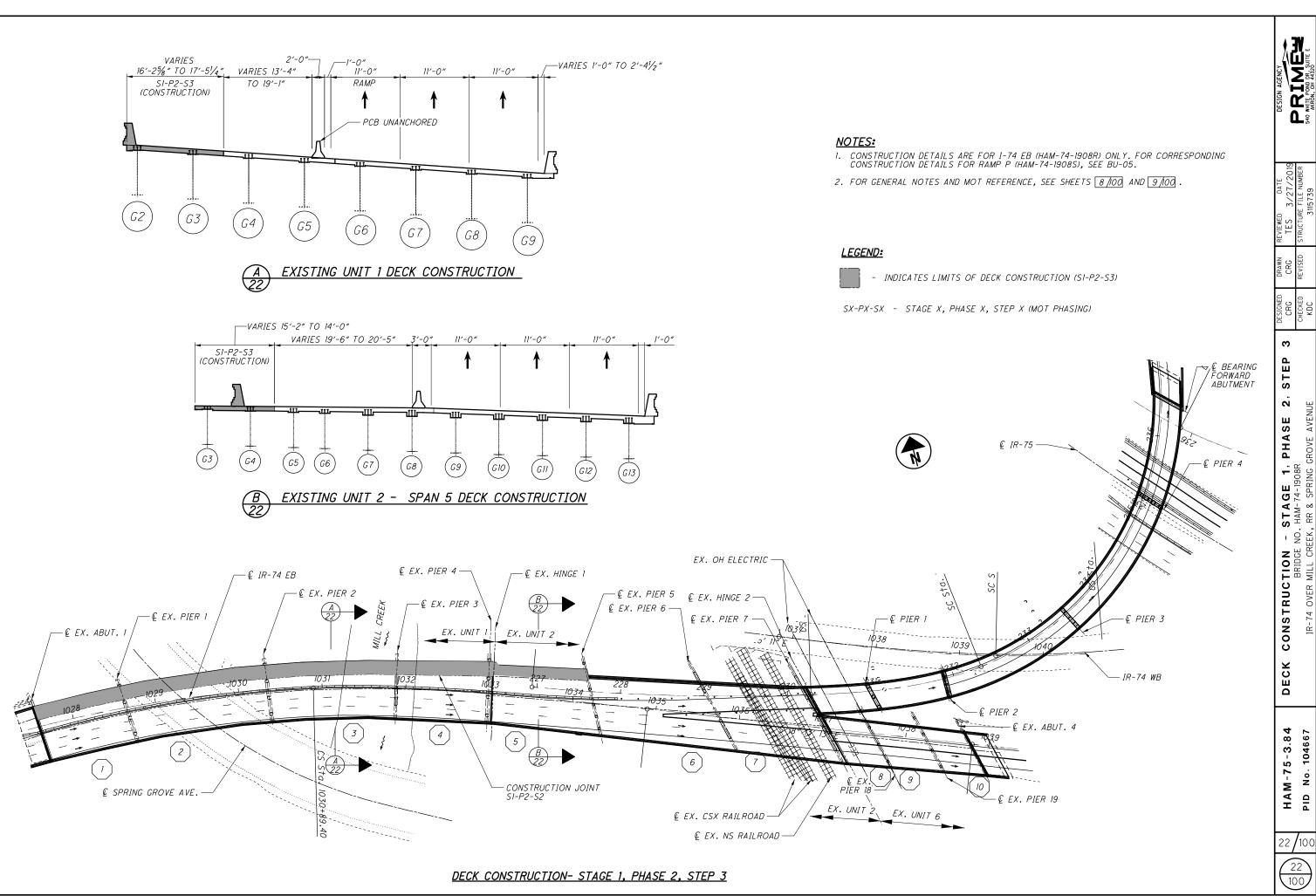
- 1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.
- 2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8 100 AND 9 100.
- 3. FOR BEBRIS SHIELD DETAILS, SEE SHEET 13/100

LEGEND:

- INDICATES LIMITS OF DECK REMOVAL (SI-P2-S3)

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

- INDICATES BEAM REMOVAL



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STAGE 1, PHASE

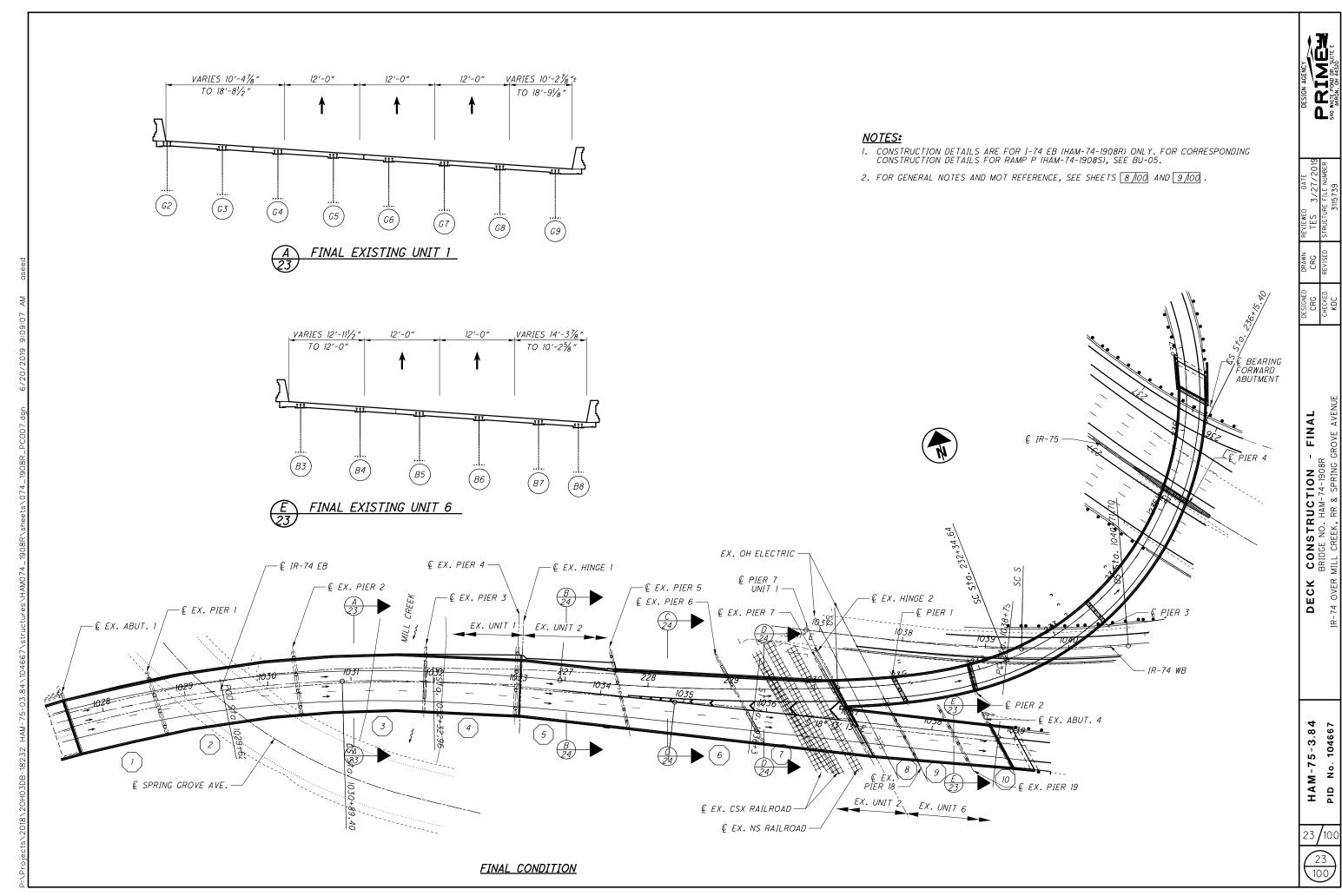
). HAM-74-1908R

K, RR & SPRING GROVE AVENU ı 9

CONSTRUCTION
BRIDGE N
IR-74 OVER MILL CREE

HAM-75-3.84 PID No. 104667

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CONSTRUCTION - FINAL BRIDGE NO. HAM-74-1908R MILL CREEK, RR & SPRING GROVE AVEN

23

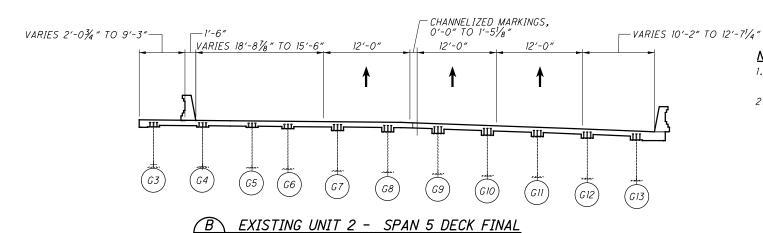
CONSTRUCTION - FINAL BRIDGE NO. HAM-74-1908R MILL CREEK, RR & SPRING GROVE AVEN

DECK

HAM-75-3.84

1. CONSTRUCTION DETAILS ARE FOR 1-74 EB (HAM-74-1908R) ONLY. FOR CORRESPONDING CONSTRUCTION DETAILS FOR RAMP P (HAM-74-1908S), SEE BU-05.

2. FOR GENERAL NOTES AND MOT REFERENCE, SEE SHEETS 8/100 AND 9/100.



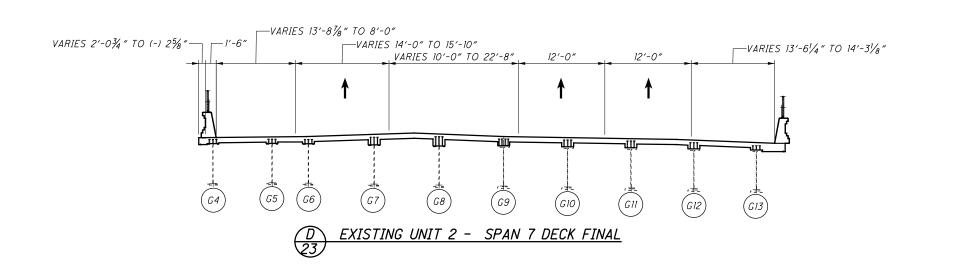
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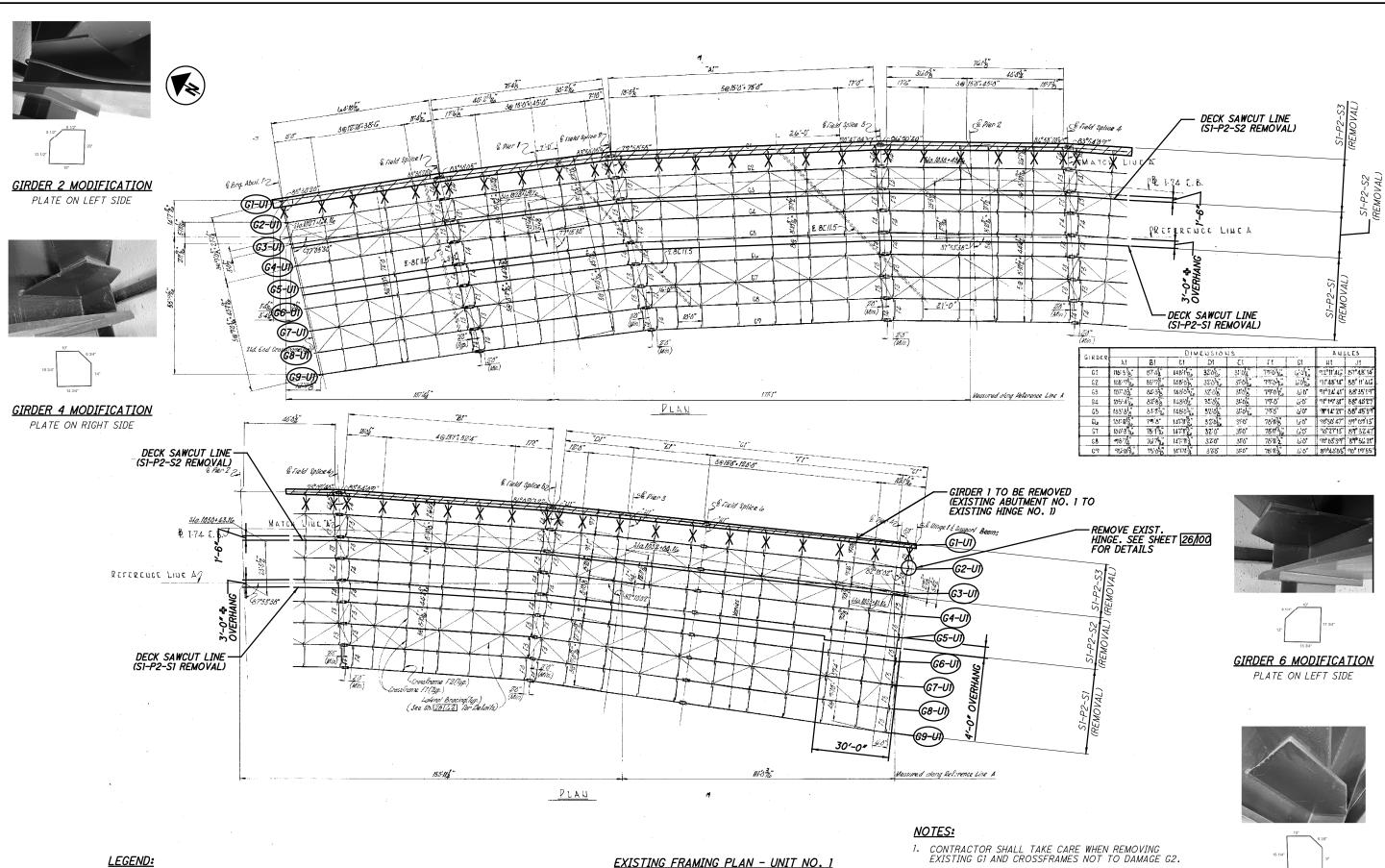
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___1'-6" VARIES 12'-0" TO 14'-0"-WARIES 12'-71/4" TO 13'-61/4" VARIES 15'-6" to 13'-81/8" (G4) (G5) (GII) (G9) (G10) (G12) (G13) EXISTING UNIT 2 - SPAN 6 DECK FINAL





LEGEND:

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INDICATES LIMITS OF REMOVAL (S1-P2-S3)

- INDICATES EXISTING CROSSFRAME TO BE REMOVED IN S1-P2-S3

GX-UX - GIRDER X UNIT X

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

⊕ - 4'-0" OVERHANG THE LAST 30'-0" OF UNIT 1

- EXISTING G1 AND CROSSFRAMES NOT TO DAMAGE G2.
- 2. PAINT ALL REMAINING STRUCTURAL STEEL WITH SYSTEM OZEU PER CMS 514. THE TOP COAT PAINT SHALL BE FEDERAL COLOR 595B-34058 (DARK GREEN)
- 3. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.
- 4. FOR ADDITIONAL DETAILS, SEE SHEET 26/100



GIRDER 8 MODIFICATION PLATE ON LEFT SIDE

(100)

HAM-75-3.84 PID

WHITE POND DR. SUITE E

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DETAILS

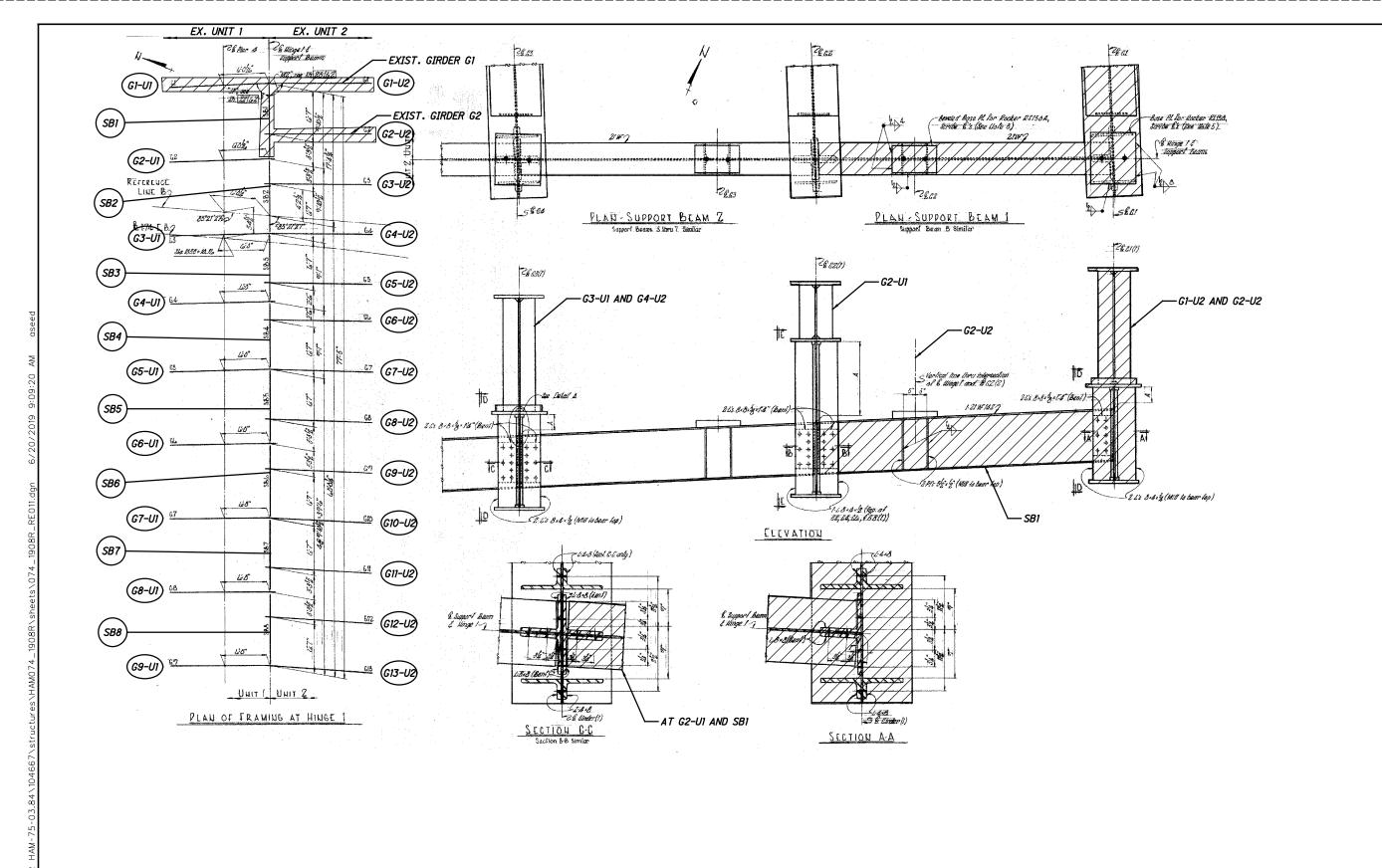
REMOVAL

- **UNIT** HAM-74-19 RR & CP

BRIDGE NO.

FRAMING

EXISTING



LEGEND:

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- INDICATES LIMITS OF REMOVAL (SI-P2-S3)

GX-UX - GIRDER X UNIT X SBX - SUPPORT BEAM X

EXISTING HINGE NO. 1 - REMOVAL DETAILS

NOTES:

- 1. FOR ADDITIONAL DETAILS, SEE SHEETS 25/100 AND 27/100.
- 2. REMOVE GI-UI, GI-U2, G2-U2, AND SBI DURING SI-P2-S3. CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE G2-UI AND SB2 DURING REMOVAL.
- 3. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.

26/100 26 100

SOO WHITE POUND DR. SUITE E

HINGE

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DETAILS

REMOVAL DE E NO. HAM-74-1908R REEK, RR & SPRING G

BEAM I BRIDGE I ER MILL CRE

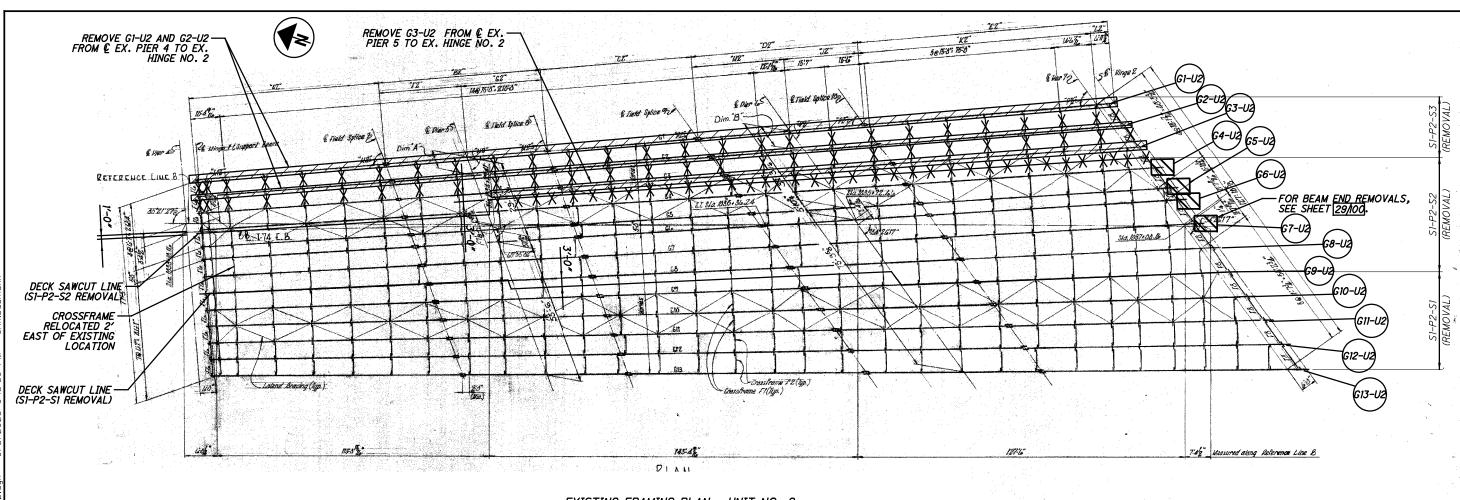
SUPPORT

EXIST.

HAM-75-3.84

104667

PID



EXISTING FRAMING PLAN - UNIT NO. 2

| | , | | | | | | | | | | | | | |
|-----------|-----------|------------------------|---------------|-----------------|------------|---------------|---------|---------------------|----------|------------|--------|------------------|-----------|-----------|
| SIZOER | 1 | राम है। स्ट्रांस विकास | and the state | nuclearing of a | Dii | MEHSIO | 48 | 734 W 3 | | 7 7 5 Land | ¥ | | AUGLES | |
| BIRDER | AZ. | 82 | CZ | DZ. | £2 | 1.5 | GZ. | 112 | J2 | K2 | L2 | MZ | N2 | P2 |
| BA. | 73: 4% | L3-23" | 391913 | 65-112 | 98616 | 32712 | 31-18" | 36.08 | 27:08 | 9F6916 | L-na. | 90° 13' 18" | 74.4654 | 59918-05 |
| GZ | 75: 313 6 | 65-115" | 6Z5" | L5:44" | 98-102 | 32:2's" | 31'11'6 | 5428 | 27:28 | 71.10% | 7'0'6" | 8° 53'00 | 74 26-35 | 58 57 50 |
| 63 | 77:33/6 | 63-8/6 | 65.03g | L5-7" | 99.758 | 32:23 | 31.256 | 3Ld 3"16 | 29:35,6 | 97:25 | 7:096 | 87º 33-/5 | 74-06-50 | 58*38-05 |
| G.A | 79:2% | 637656 | 67: 7/6" | 65 916 | 991616 | 32-3 g" | 3F215 | 3U58" | 79:496 | 92:1016 | 7:058 | 89914:03" | 73°47'39 | 58° 18'54 |
| G5 | 81'2" | 4572 | 70:38 | 60 ala | 99:10% | 32° 4" | 31:3'2" | 312658 | 29:534 | 92:7% | 7:0% | 88°-55'-24" | 73 28 59 | 58 00 14 |
| ماي | 826 | 3.72 | 71:11% | 800 | 77: 103" | 32:4" | 31:32 | 3668 | 29"5 h | 97:93 | 7:07 | 88 55 24 | 73 28 59 | 58.00 14 |
| G7 . | 84.74 | 63.42 | 74-1136 | 66 416 | 100.54 | 37 5° | 8542 | 9″ 9 ما3 | 2776 | 7533 | 7138" | 88 25 52 | 72°55'27 | 57°30-42 |
| GB. | 86776 | 63-11/6 | 77:1/4 | 66 8 16 | 100 11 3." | 32: 6" | 31:576 | 361136 | 29:99% | 93:915 | 7-1176 | 87°57-15° | 72.30.50 | 579 02-05 |
| 69 | 88-816 | 14116 | 80'118 | 67-136 | M: 68 | 37! 7" | 35676 | 37 1 ⁵ 4 | 29:11 76 | 74:38 | 7:24" | 87°29'30' | 12.03.06 | 513-34-21 |
| 810 | 90.958 | 64.376 | 84.0% | 67.55g | 102-02" | 32 8 6 | 31:7% | 37: 416 | 30-156 | 74'73" | 7'234" | 87.02-36 | 71936:11" | 512:07:20 |
| GH. | 77.10% | 64:38 | 8714" | 67:996 | | 3 % 9" | કારકર્ફ | 37-438" | 30-3% | 95°3 & | | 863636 | | |
| 612 | 9A: 11.4" | (a4) -38" | 90-2% | 65-1"16 | | 32:10/16 | 31195/6 | 378 % | 30 5/c | 95.976 | | 812-11-10" | | |
| 813 | 97:05% | 64.976 | 95.35 | Lo8'51316 | 103:74 | 3H //" | 35 1051 | 37 10 15 IL | 30 68 | 7636 | 74 16 | 85 46 34 | 762010 | 54"51" 25 |

LEGEND:

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- INDICATES LIMITS OF REMOVAL (S1-P2-S2)

- INDICATES LIMITS OF REMOVAL (S1-P2-S3)

X - INDICATES EXISTING CROSSFRAME AND LATERAL BRACING TO BE REMOVED

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

NOTES:

- 1. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.
- 2. FOR HINGE REMOVAL DETAILS, SEE SHEET 29/100.
- 3. FOR SUPPORT BEAM REMOVAL DETAILS, SEE SHEET 26/100.
- 4. FOR EXISTING G3 REMOVAL LIMITS, SEE SHEET 28/100.

27/100

HAM-75-3.84 PID No. 104667

PAINTE POIND DR. SUITE E

DETAILS

REMOVAL

PLAN -BRIDGE NO. MILL CREEK,

FRAMING

EXISTING

DETAILS REMOVAL 2 BEAM F. . HAM-74-1908R

GIRDER 3 UNIT
BRIDGE NO. H
IR-74 OVER MILL CREEK, F EXISTING

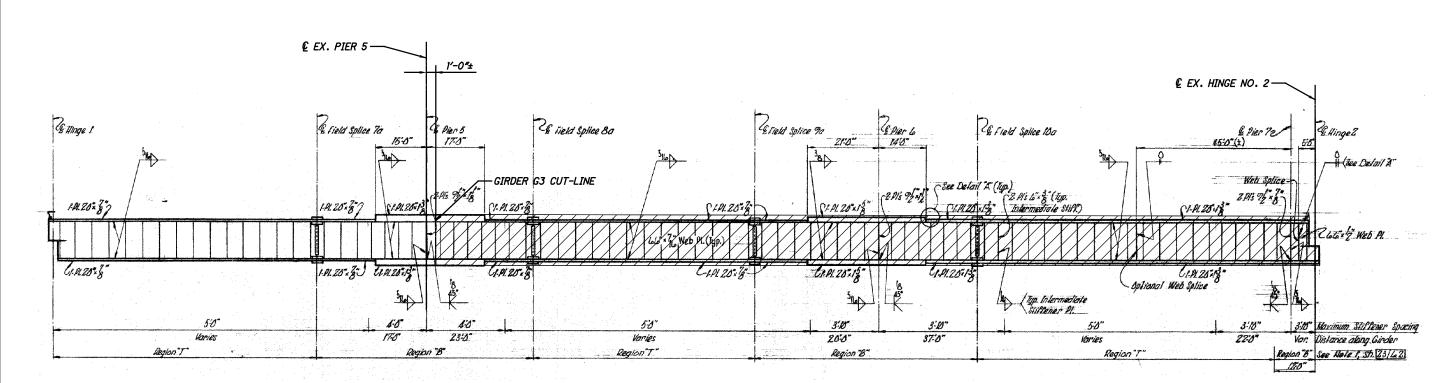
HAM-75-3.84 PID No. 104667

NOTES:

1. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.

EXISTING GIRDER G3 REMOVAL LIMITS

LEGEND: - INDICATES LIMITS OF REMOVAL (SI-P2-S3)



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— € EXIST. HINGE NO. 2

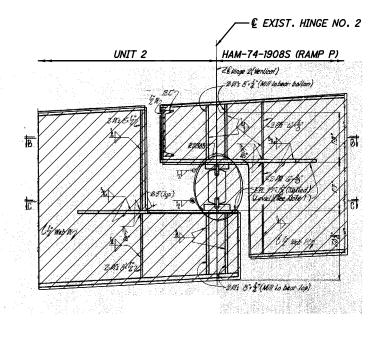
HAM-74-1908S (RAMP P)

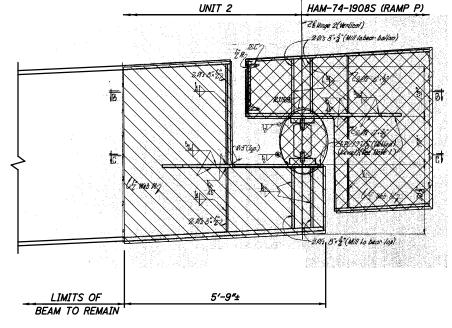
- 8Mi 5 4 (Mill to bear top)

2 REMOVAL DETAILS . HAM-74-1908R . RR & SPRING GROVE AVENUE

EXISTING

HAM-75-3.84 PID No. 104667





BEAM END REMOVALS - G4-U2 AND G5-U2

— € EXIST. HINGE NO. 2

BEAM END REMOVALS - G1-U2 THRU G3-U2

<u>LEGEND:</u>

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- INDICATES LIMITS OF REMOVAL (SI-P2-SI)

- INDICATES LIMITS OF REMOVAL (SI-P2-S2)

- INDICATES LIMITS OF REMOVAL (SI-P2-S3)

EXISTING HINGE 2 REMOVAL DETAILS

LIMITS OF BEAM TO REMAIN

UNIT 2

5′-9**″**±

BEAM END REMOVALS - G6-U2 AND G7-U2

- 1. FOR LOCATION OF HINGE REMOVAL, SEE SHEET 27/100.
- 2. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.





- REMOVAL

DETAILS

FRAMING PLAN - UNIT 6 -BRIDGE NO. HAM-74-1908R IR-74 OVER MILL CREEK, RR & SPRING C

EXISTING

HAM-75-3.84 No. 104667 PID

30 100

11@15:0"=165:0" (4-8516" E Field Splice 11 & Pier 72 & Dier 185 & Brg. Abul. 45 (BI 5ta.1037+00.16 B2 B3 CE 1-74 E.B. EREFERENCE LINE B 5ta.1038+76.66 REMOVE B1 AND B2-FROM HINGE NO. 2 TO © EX. ABUT NO. 4 Cross frame(typ) DECK SAWCUT LINE (S1-P2-S1 REMOVAL) (B7) 15:0" (B8)

EXISTING FRAMING PLAN - UNIT NO. 6

LEGEND:

INDICATES LIMITS OF REMOVAL (SI-P2-S2)

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

X - INDICATES EXISTING CROSSFRAME TO BE REMOVED

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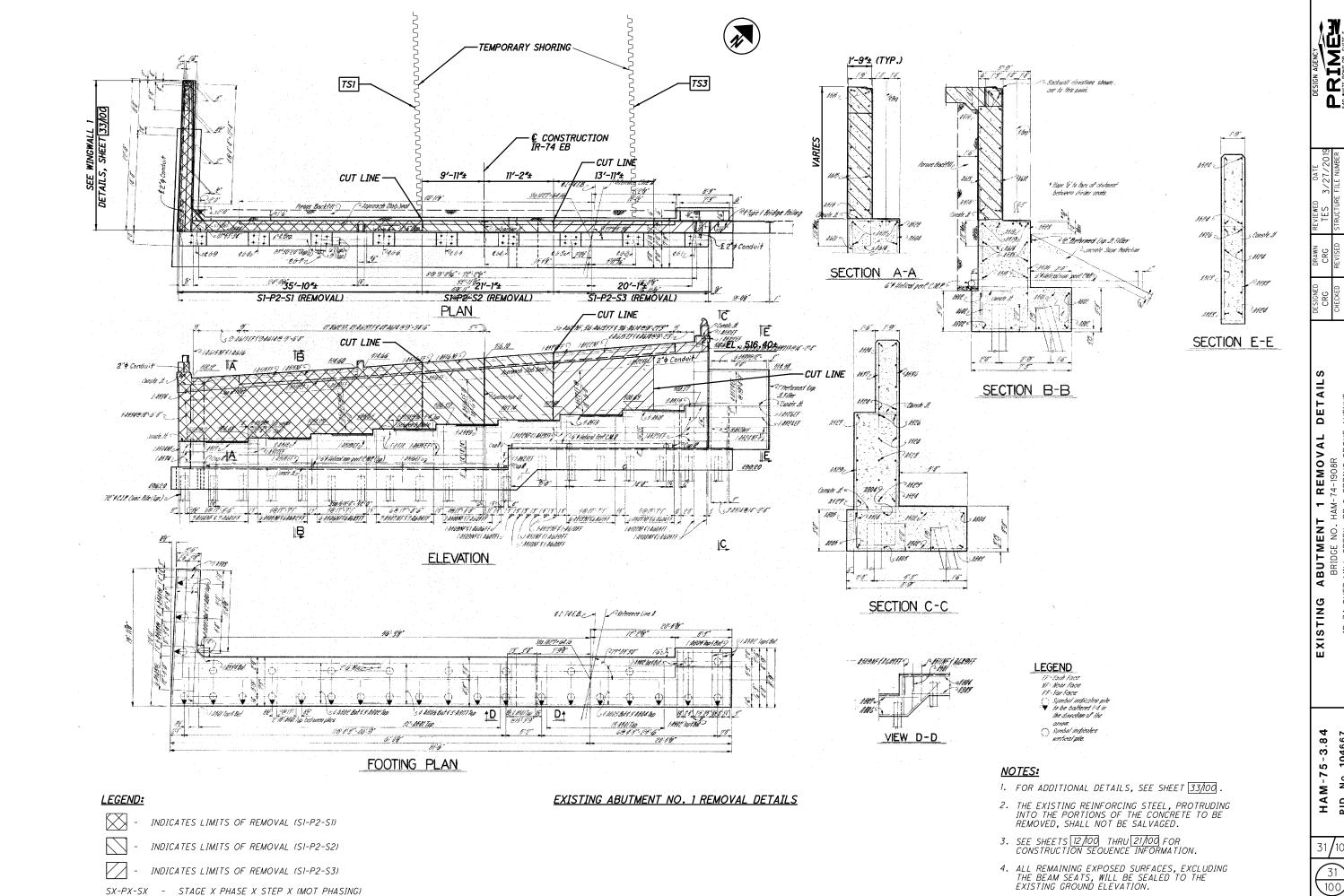
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NOTES:

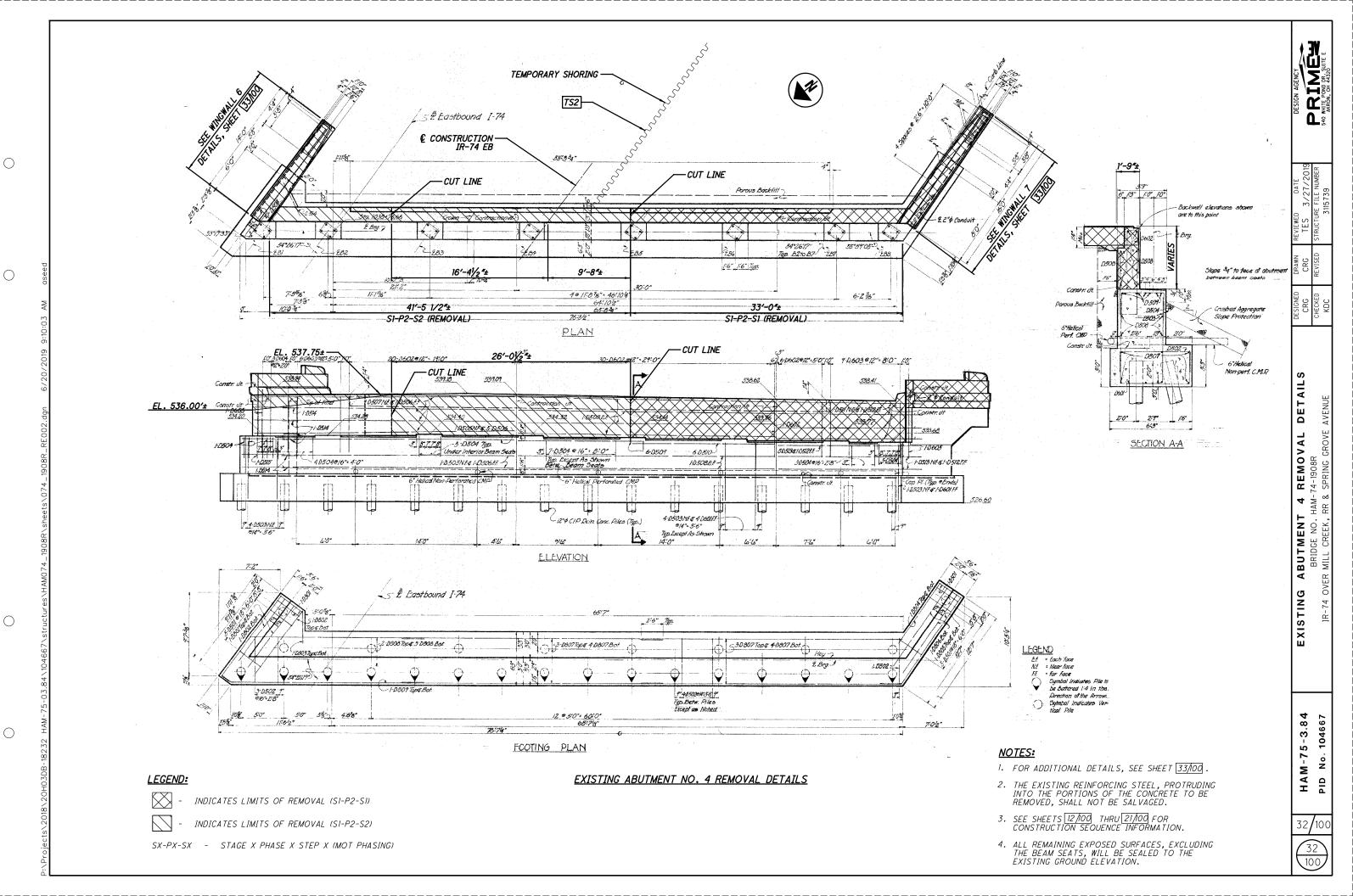
1. SEE SHEETS 12/100 THRU 21/100 FOR CONSTRUCTION SEQUENCE INFORMATION.

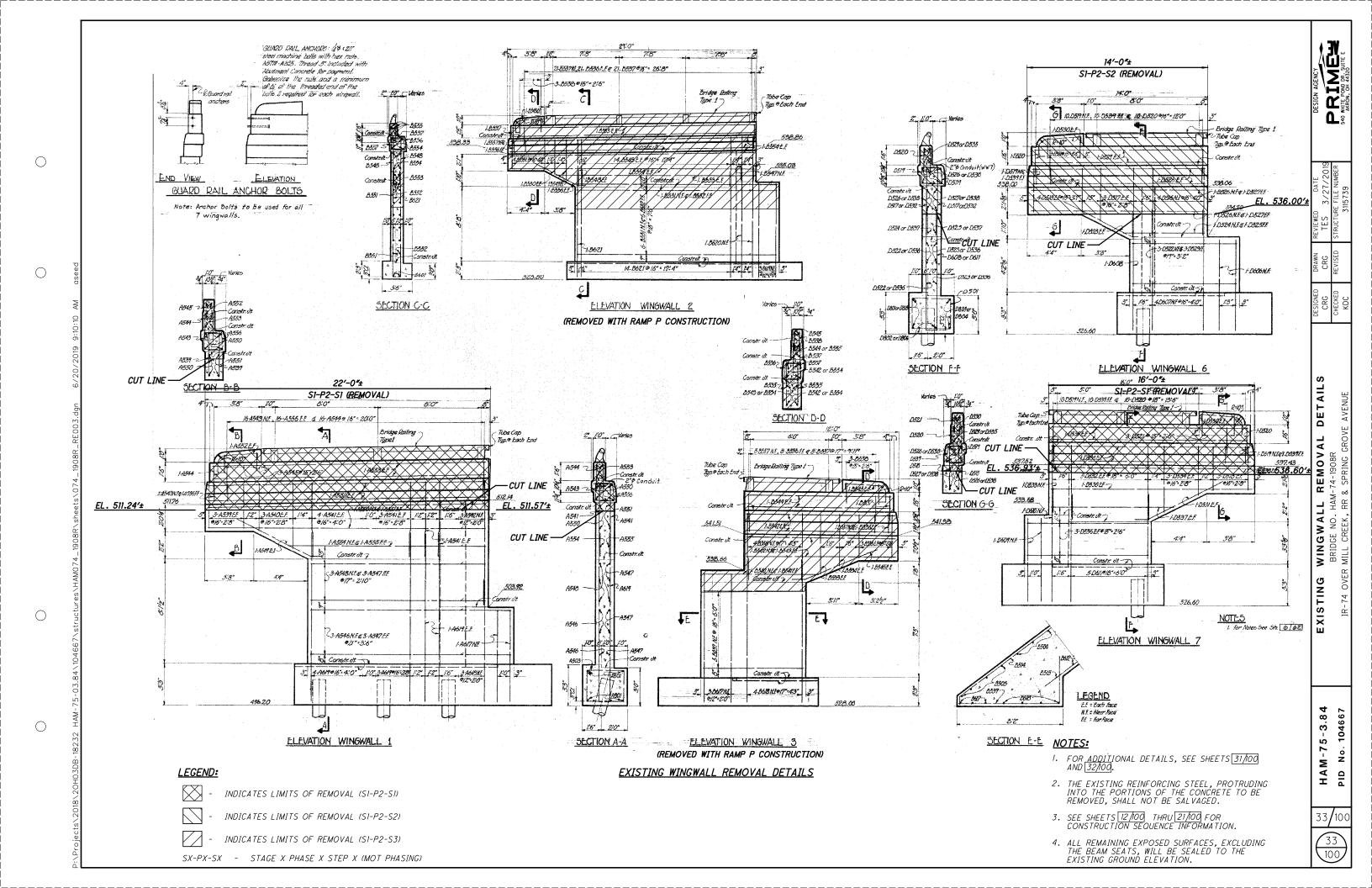


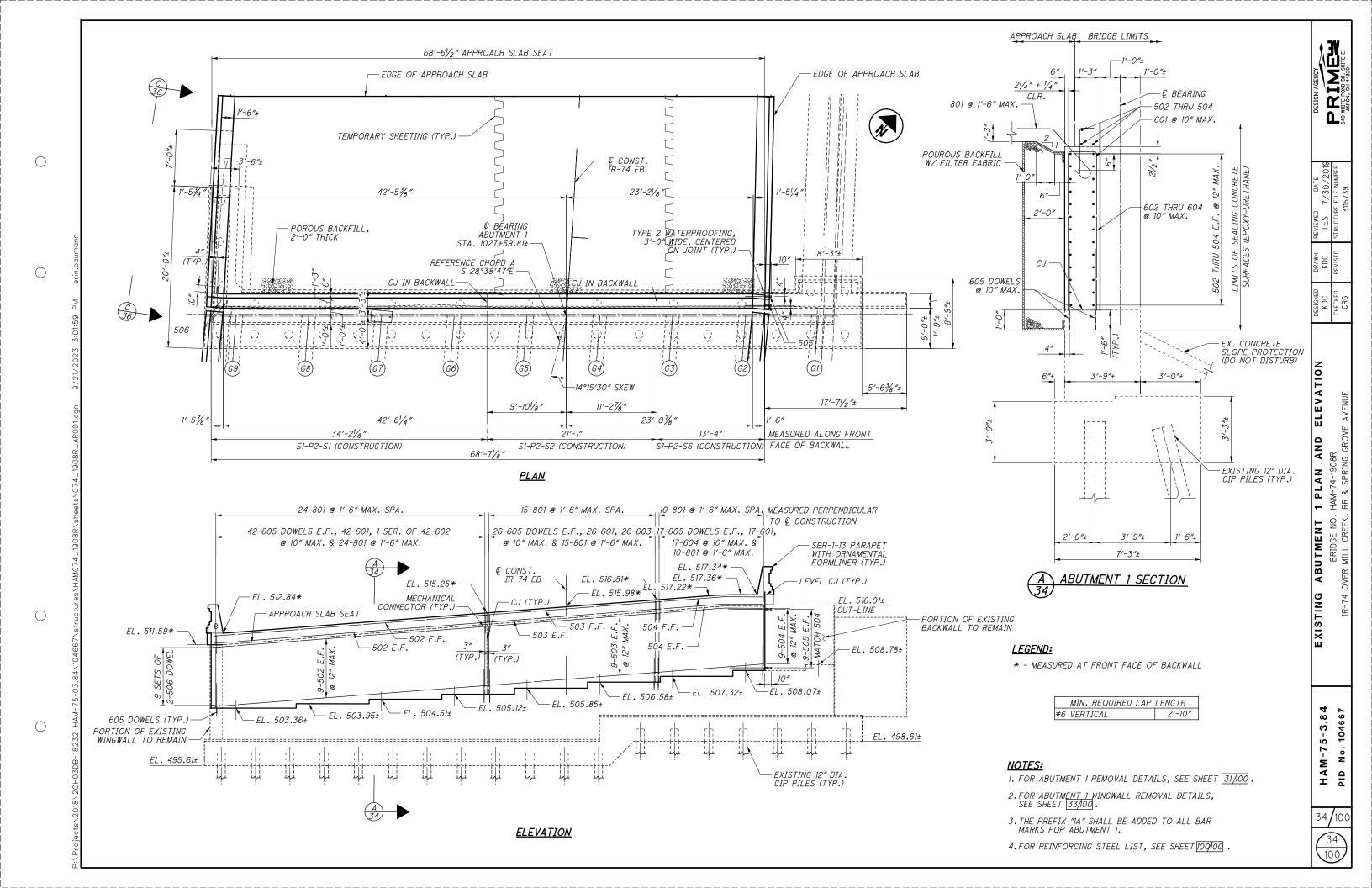
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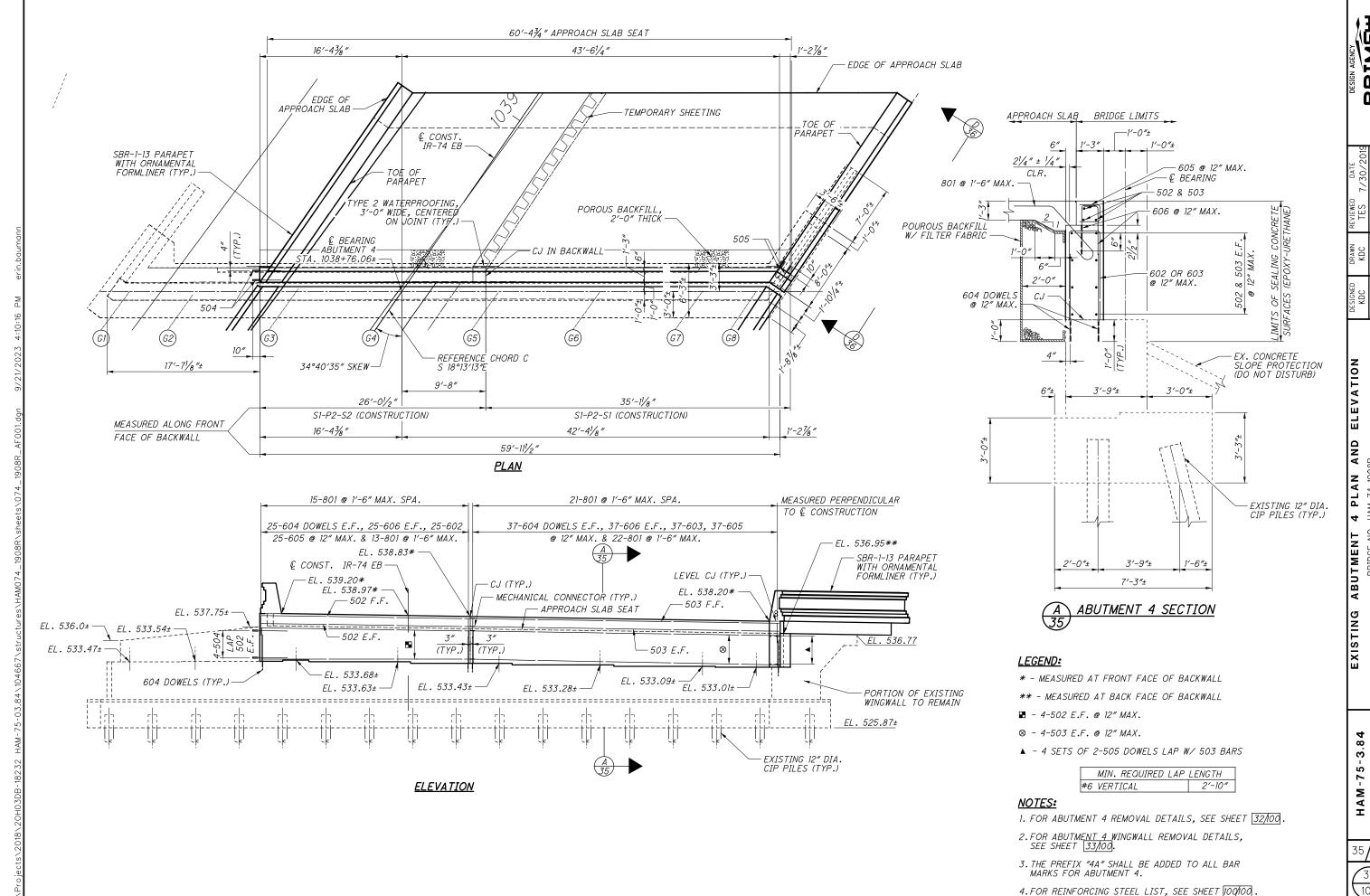
PHI MAINTE. POUD DR. SUITE F

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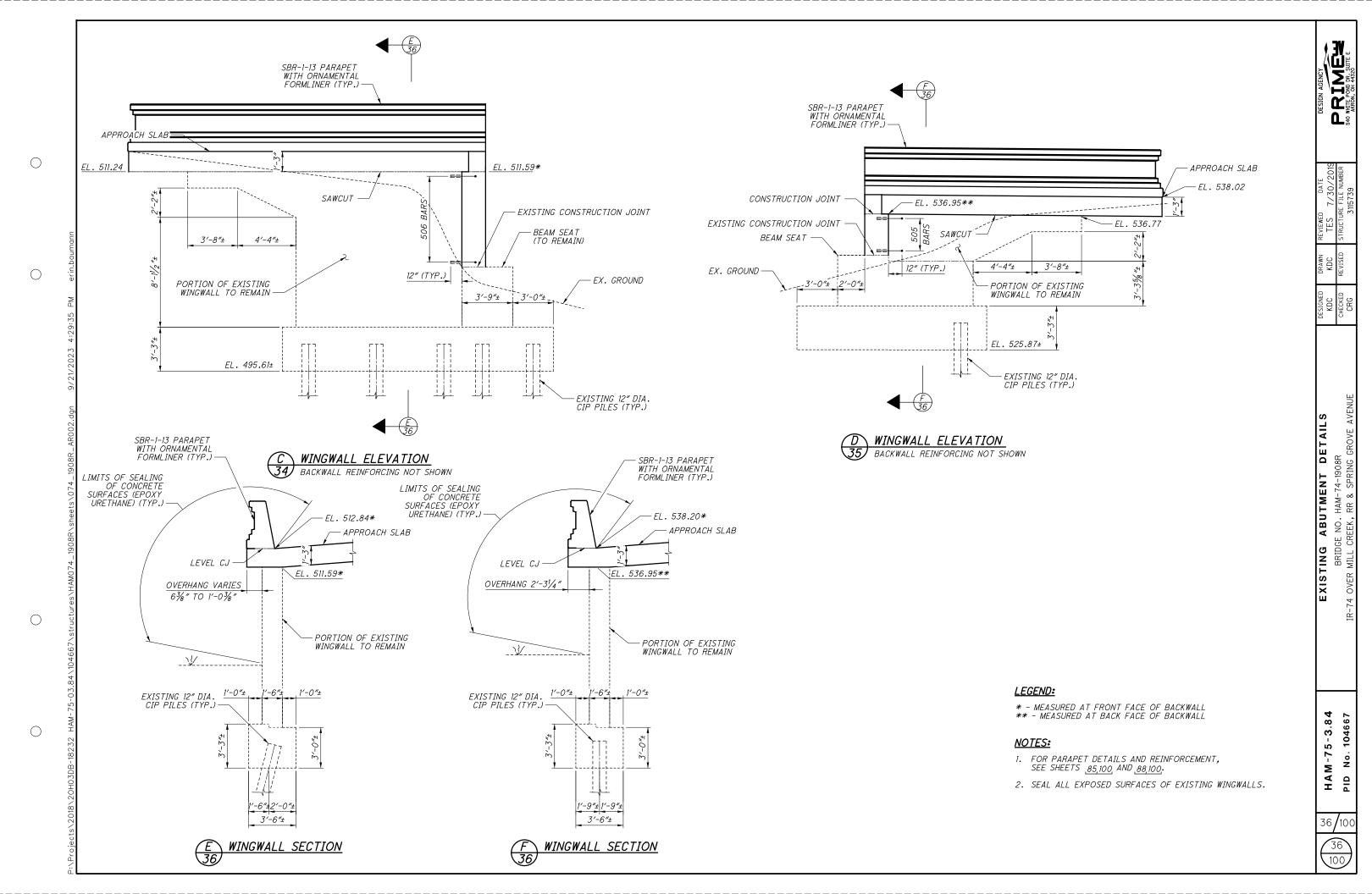
PENTE POND DR. SUITE E

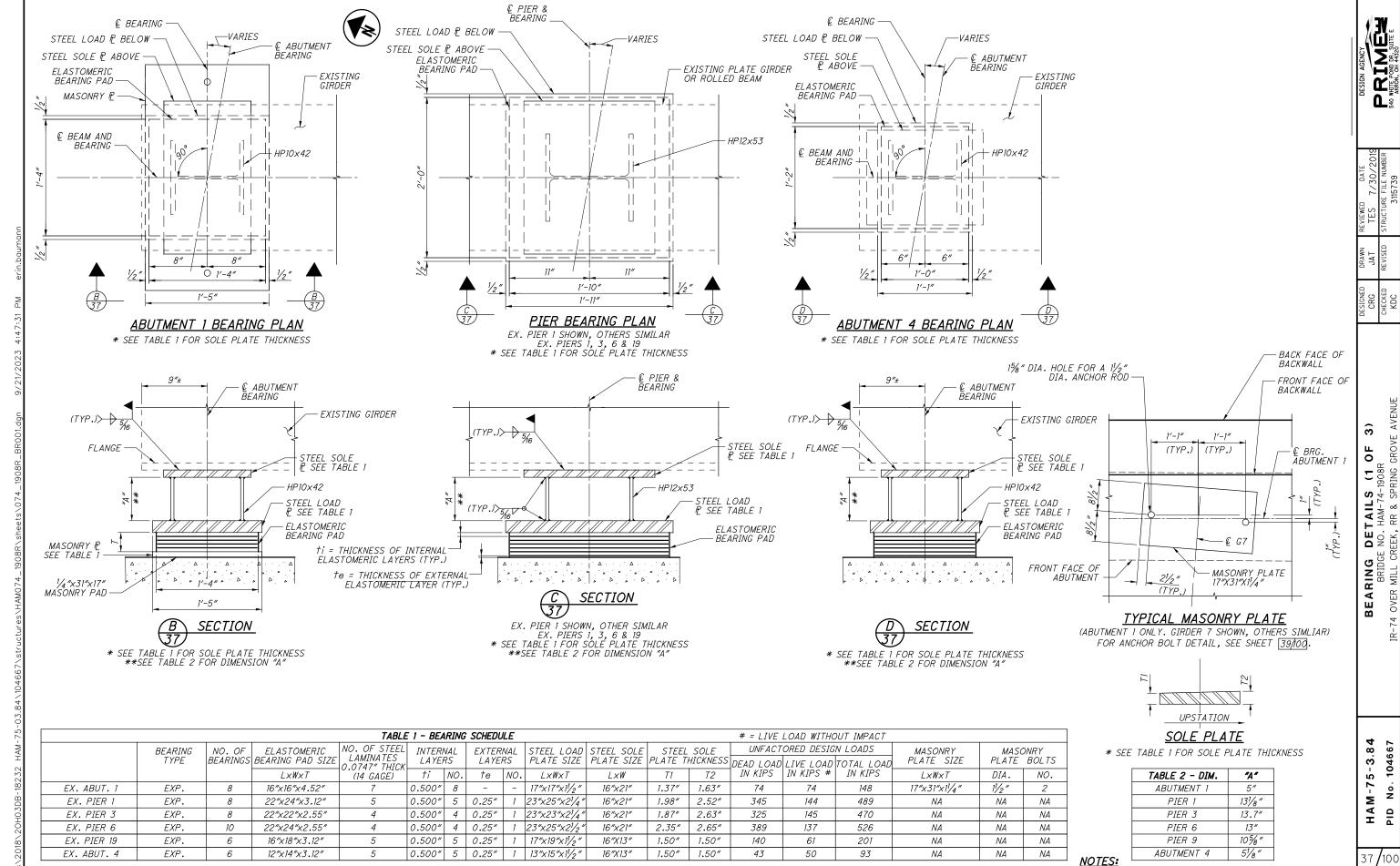
7. HAM-

ABUTMENT BRIDGE NO. OVER MILL CREEK,

° N PID

(100)

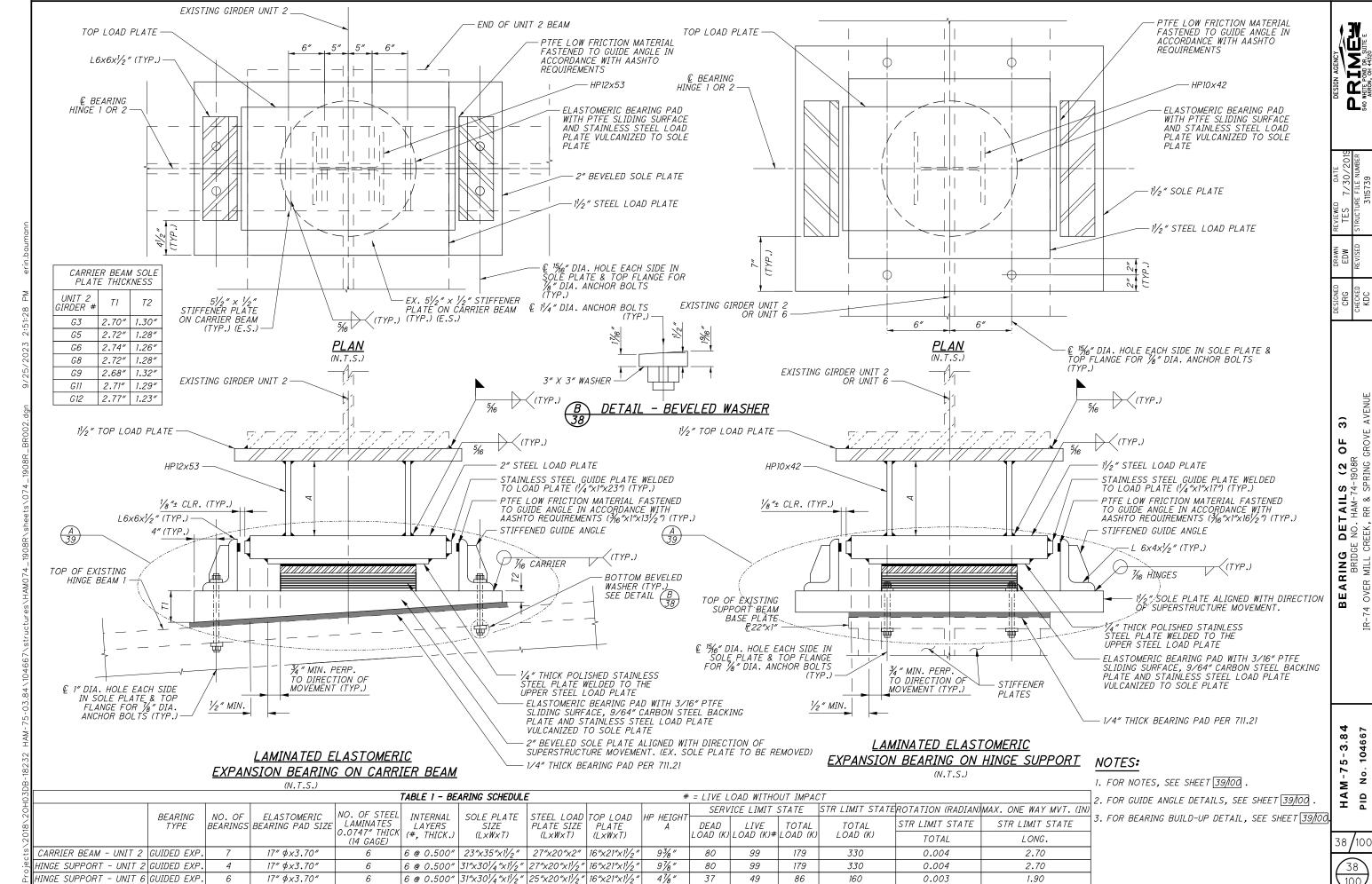




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1. FOR NOTES, SEE SHEET 39/100.

2.GALVANIZED SHIM PLATES INSTALLED AT PIER 3, PIER 6, AND ABUTMENT NO. 4



WHITE POND DR. SUITE E

BEARING BRIDGE 4 OVER MILL CI

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ΔI

(100

4 PTFE

3/16" PTFE

SLIDING SURFACE

FĽURÓGOLD TEFLON

TACK WELD

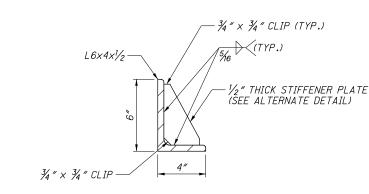
(TYP.)

- REINFORCED ELASTOMER |

39 **/**100 39

1'-2" 6" (TYP.) (TYP.) BEARING PAD '2" THICK AND RETAINER STIFFENER $L 6x6x^{1}/_{2}$ (TYP 15/6" DIA. HOLES (TYP.) (TYP.)

BEARING GUIDE ANGLE PLAN - CARRIER BEAM



15/8"

ANCHOR BOLT DETAIL

11/2" DIA. ANCHOR BOLT MASONRY PLATE

1/8" BEARING PAD

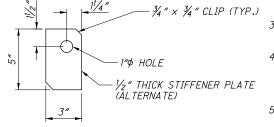
ABUTMENT 1 SEAT

NON-SHRINK

NON-METALLIC

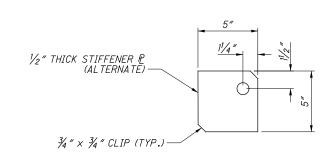
GROUT PER ITEM

(D) (39) \SECTION - BEARING GUIDE ANGLE - HINGE SUPPORT



ALTERNATE STIFFENER PLATE - HINGE SUPPORT

(TO FACILITATE SHIPPING & PLACEMENT)



ALTERNATE STIFFENER PLATE - CARRIER BEAMS

(TO FACILITATE SHIPPING & PLACEMENT)

NOTES:

TACK WELD (TYP.) -

SOLE PLATE -

THICK POLISHED STAINLESS STEEL PLATE WELDED TO THE

UPPER STEEL LOAD PLATE

HOMOGENEOUS

HIGH TEMPERATURE

EPOXY BOND SYSTEM

1. ELASTOMERIC BEARINGS:

9/64" (10 GAUGE) CARBON

STEEL BACKING PLATE

THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. ALL BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.

THE TOP STEEL LOAD PLATE, STEEL LOAD PLATE AND SOLE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. THE SOLE PLATE 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 TEMPERATURE MONITORING DEVICES.

3. COMPONENTS OF THE BEARING DEVICES SHALL MEET THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 869.

BEARING DETAIL

4. MARKINGS:

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.

5. CORROSION PROTECTION:

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 SUPPLEMENTAL SPECIFICATION 869. ONLY APPLICABLE FOR BEARINGS AT HINGE 1 & 2.

6. PAINTING:

THE LOAD PLATES, SOLE PLATES AND HP SECTIONS SHALL BE PAINTED IN ACCORDANCE WITH ITEM 514 AND C&MS 708. THE FINISH COAT SHALL BE FEDERAL STANDARD COLOR 595B-16515 (GRAY). ONLY APPLICABLE TO BEARINGS AT ABUTMENTS 1 & 4 AND PIERS 1, 3, 6 AND 19.

7. <u>DESIGN LOAD:</u>

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.

8. BEARING ORIENTATION:

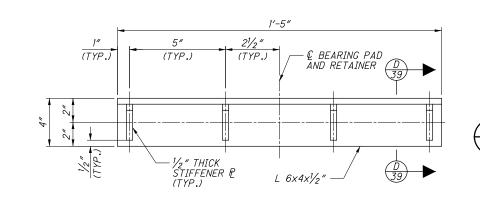
FOR BEARING ORIENTATION AT SUBSTRUCTURE UNITS, SEE INDIVIDUAL PLAN SHEETS.

9. BRIDGE SEAT ELEVATIONS:

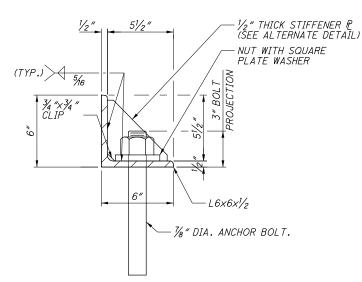
BRIDGE SEAT ELEVATIONS HAVE BEEN ADJUSTED UPWARD 0.139 INCHES AT PIER 2, UNIT 2, 0.125 INCHES AT PIER 3, 0.123 INCHES AT PIER 4 AND 0.105 INCHES AT THE FORWARD ABUTMENT TO COMPENSATE FOR THE VERTICAL DEFORMATION OF THE BEARINGS.

10.BEARING SEAT ADJUSTMENT FOR SPECIAL BEARINGS:

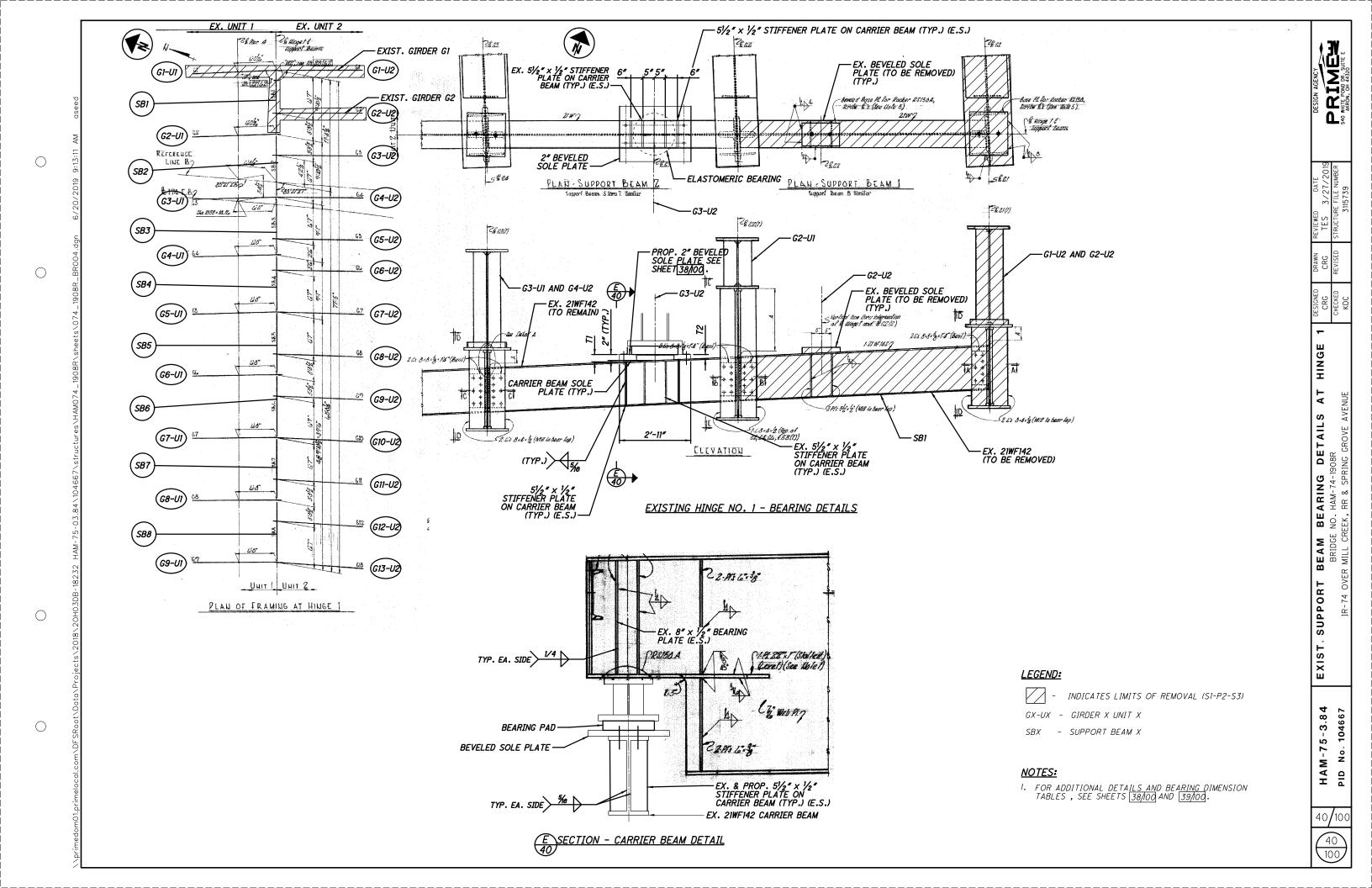
THE PIER AND ABUTMENT BEAM SEAT ELEVATIONS ARE BASED ON BEARING HEIGHTS PROVIDED IN THE PLANS. IF THE CONTRACTOR'S SELECTED BEARING MANUFACTURER HAS A DESIGN THAT DOES NOT CONFORM TO THE HEIGHTS PROVIDED IN THESE PLANS, ADJUST THE BEARING SEAT ELEVATIONS AT NO ADDITIONAL COST TO THE STATE. ADJUST THE LOCATION OF REINFORCING STEEL HORIZONTALLY AS NECESSARY TO AVOID INTERFERENCE WITH THE BEARING ANCHOR BOLTS. MAINTAIN THE MINIMUM CONCRETE COVER AND MINIMUM SPACING REQUIRED BY THE PROJECT PLANS. IF THE REINFORCING STEEL CANNOT BE MOVED TO PROVIDE THE REQUIRED POSITION FOR THE ANCHOR BOLTS, THE CONTRACTOR'S BEARING MANUFACTURER SHALL REDESIGN THE BEARINGS TO ACCOMMODATE AN ACCEPTABLE ANCHOR BOLT CONFIGURATION.

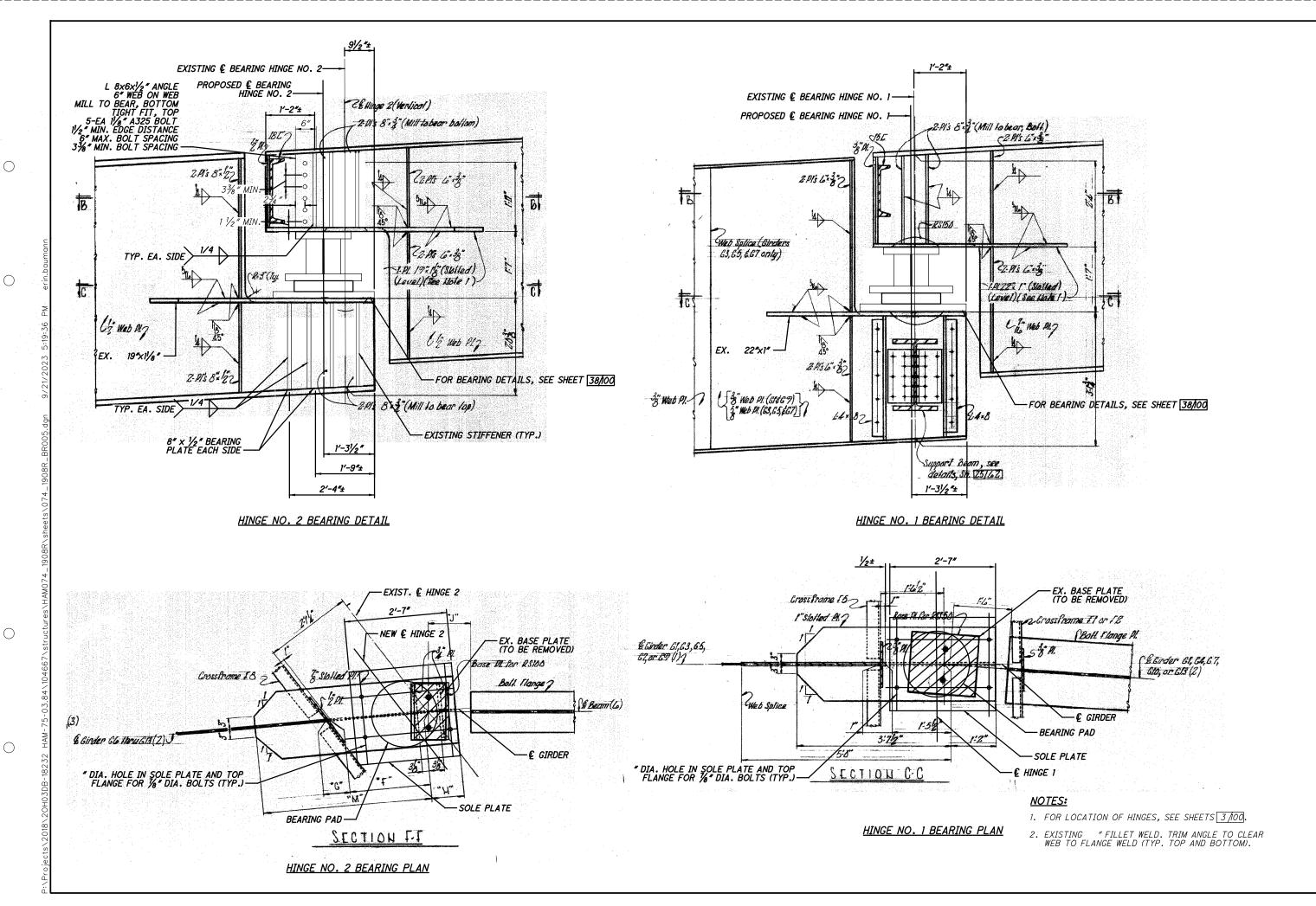


BEARING GUIDE ANGLE PLAN - HINGE SUPPORT



SECTION - BEARING GUIDE ANGLE - CARRIER BEAMS





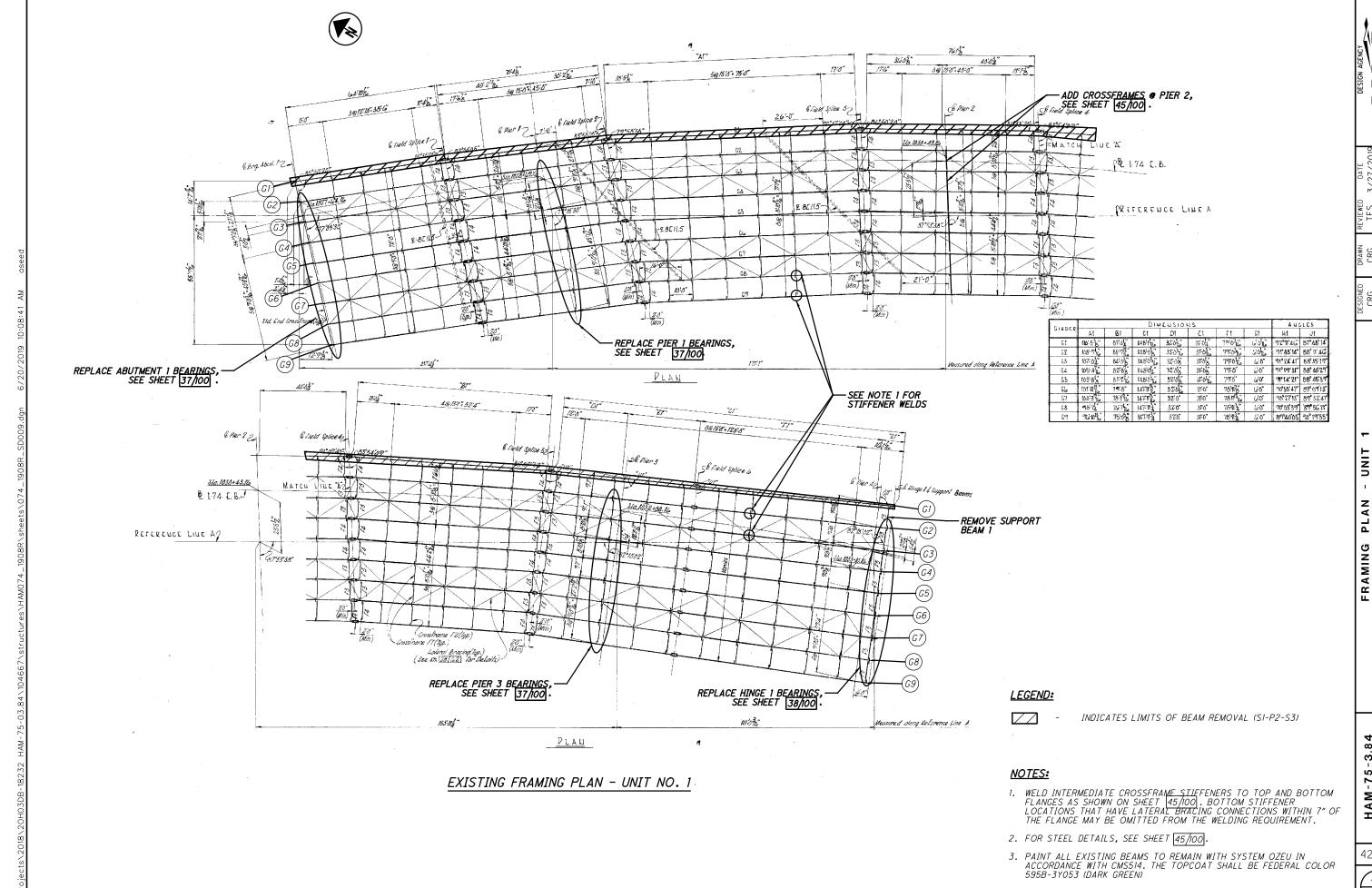
PAINTE POND DR. SUITE F

DETAILS

2 BEARING . HAM-74-190RB HINGE BRIDGE NO. MILL CREEK. ISTING ш

> HAM-75-3.84 Š PID

41/100



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PRIME E S40 WHITE POND DR. SUITE E ARRON. OH 44320

WN REVIEWED DATE

G TES 3/27/2019
SED STRUCTURE FILE NUMBER
3115739

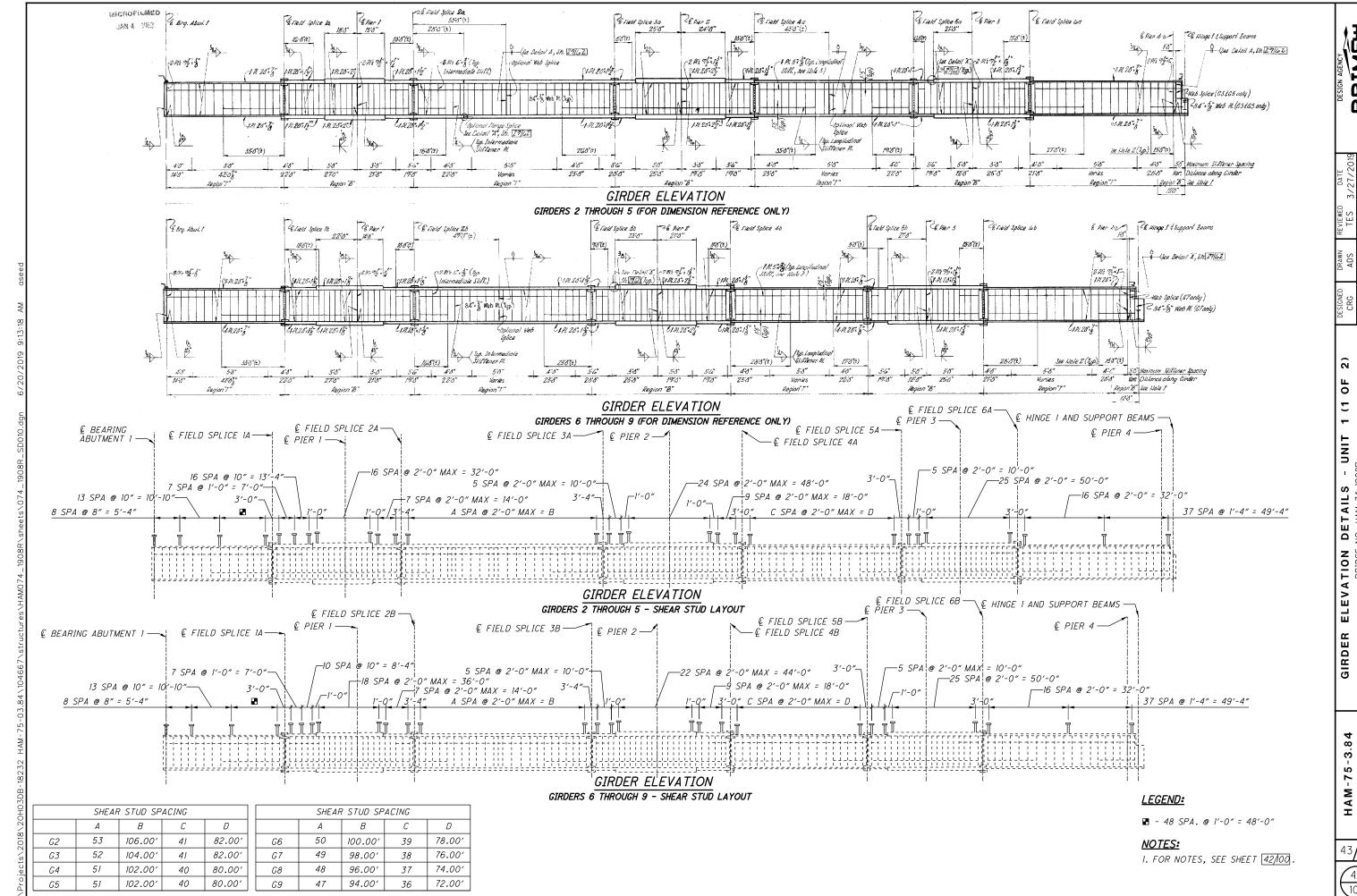
CRG CRG CHGC CHGCKED ST

74-1908R SPRING GROVF AVFNUF

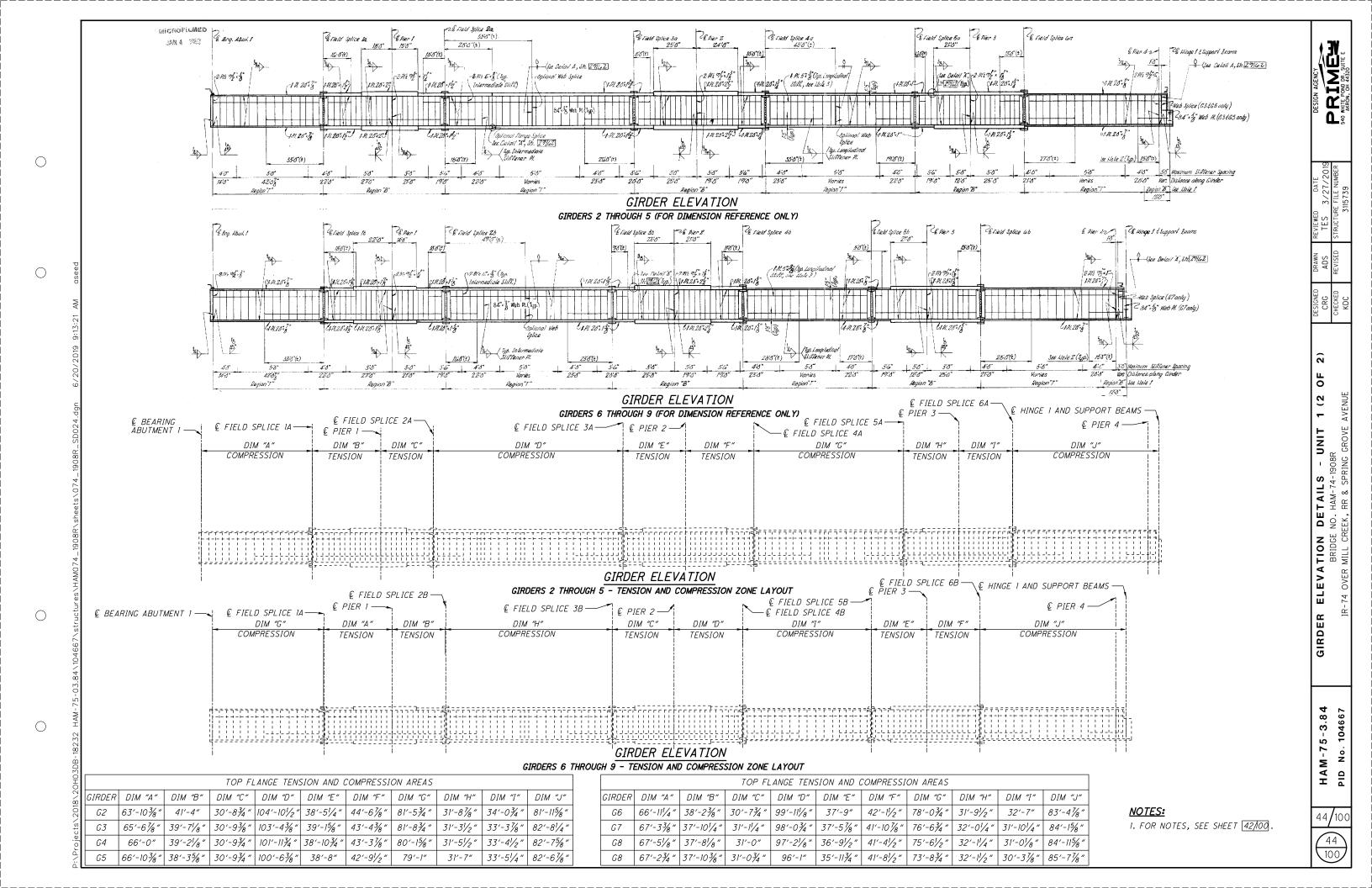
FRAMING PLAN BRIDGE NO. HAM-74-

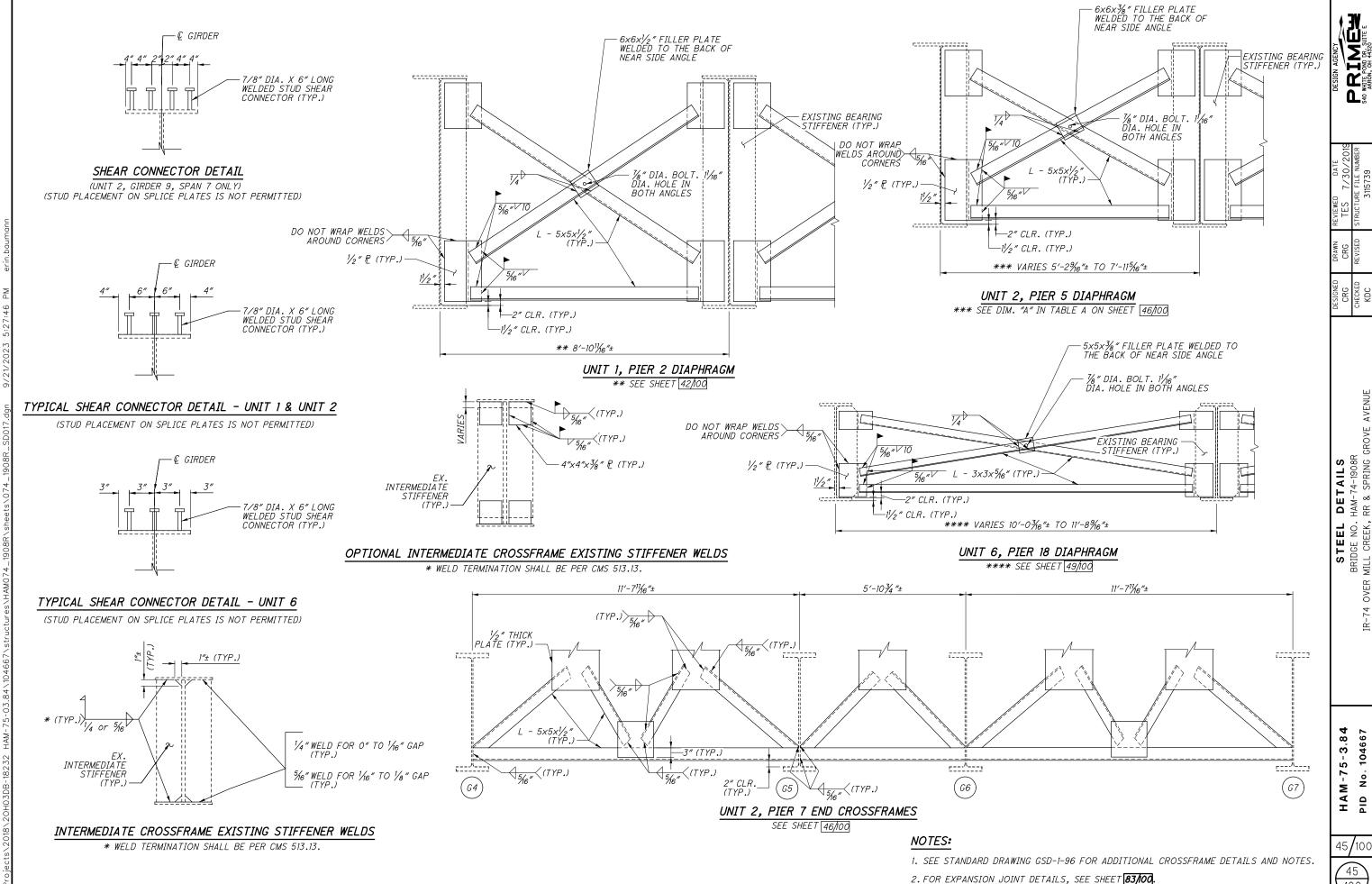
HAM-75-3.84 PID No. 104667

42/100



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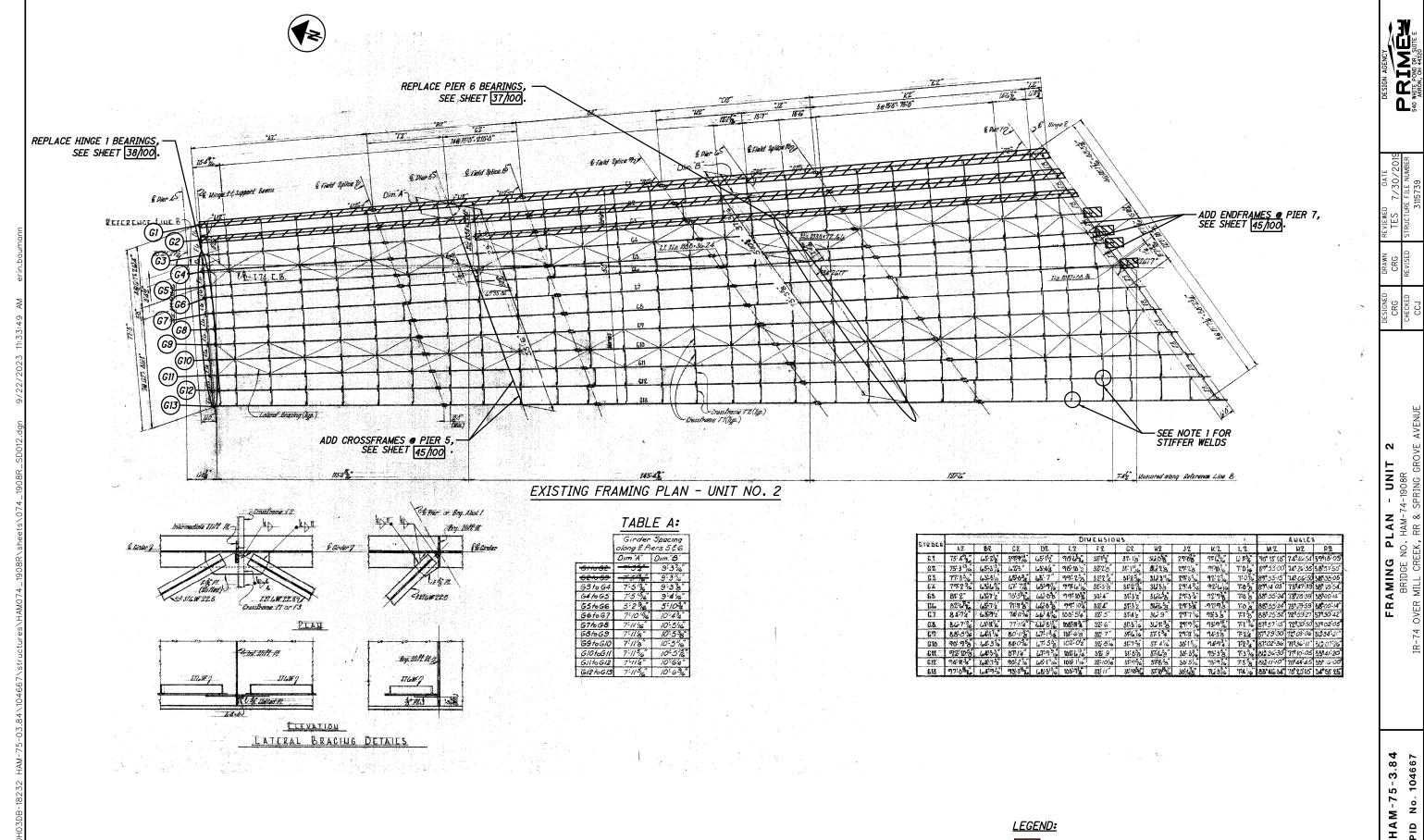
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LEGEND:

INDICATES LIMITS OF BEAM REMOVAL (S1-P2-S3)

INDICATES LIMITS OF BEAM REMOVAL (S1-P2-S2)

NOTES:

1. FOR NOTES, SEE SHEET 42/100.

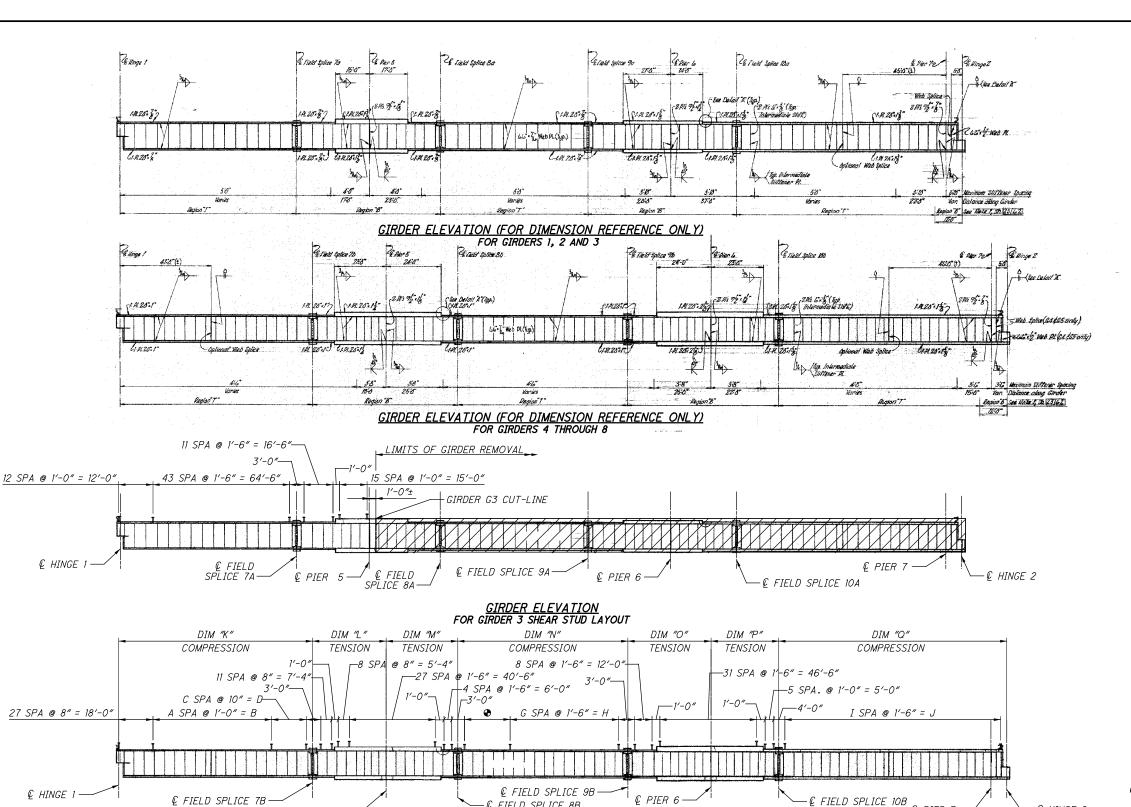


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UNIT DETAILS NO. HAM-74-18 REK, RR & SPR ELEVATION BRIDGE 1 -74 OVER MILL CRE GIRDER

> 3.84 104667 HAM-75-° N PID

47 100



GIRDER ELEVATION FOR GIRDERS 4 THROUGH 8 SHEAR STUD LAYOUT

€ FIELD SPLICE 8B

| | | | | 5 | AR STUD SPA | - | | 1 | - | |
|----|----|--------|----|--------|-------------|----------|----|--------|----|--------|
| | A | B | Ü | D | E | <i>F</i> | G | H | I | J |
| G4 | 29 | 43.50' | 20 | 16.67′ | 43 | 21.50′ | 30 | 45.00' | 65 | 97.50′ |
| G5 | 30 | 45.00' | 20 | 16.67′ | 45 | 22.50′ | 31 | 46.50′ | 65 | 97.50′ |
| G6 | 31 | 46.50′ | 20 | 16.67′ | 47 | 23.50′ | 32 | 48.00′ | 65 | 97.50′ |
| G7 | 31 | 46.50′ | 23 | 19.17′ | 49 | 24.50' | 33 | 49.50' | 65 | 97.50′ |
| G8 | 32 | 48.00' | 23 | 19.17′ | <i>52</i> | 26.00' | 34 | 51.00′ | 66 | 99.00′ |

€ PIER 5

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| | TOP FLANGE TENSION AND COMPRESSION ZONES | | | | | | |
|--------|------------------------------------------|-----------|-----------|------------|------------------------|------------|-------------|
| GIRDER | DIM "K" | DIM "L" | DIM "M" | DIM "N" | DIM "O" | DIM "P" | DIM "Q" |
| G4 | 86′-7¾″ | 25'-11/4" | 36′-7½″ | 60'-01/8" | 36′-6 ¹ /4″ | 26'-101/2" | 102'-01/2" |
| G5 | 83'-41/2" | 30'-4" | 33'-31/4" | 68′-5¾″ | 36′-35⁄8″ | 28'-11/2" | 101′-3″ |
| G6 | 83'-2" | 31′-11″ | 31′-77/8″ | 70′-111/4″ | 37′-1″ | 29'-33%" | 100′-11/8″ |
| G7 | 84'-113/8" | 32'-31/8" | 32'-31/2" | 72'-11/4" | 38′-7″ | 29'-21/2" | 100′-101/2″ |
| G8 | 86'-11/8" | 33′-2¾″ | 33'-25%" | 75′-11¾″ | 37′-11/4″ | 29'-33%" | 101′-5½″ |

€ PIER 7

LEGEND:

◆ - E SPA @ 6" = F

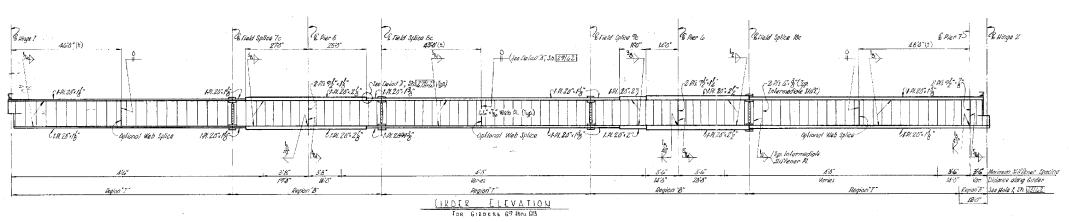
NOTES:

— € HINGE 2

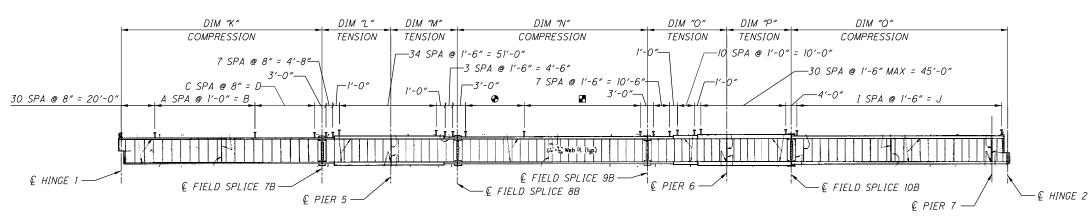
- 1. FOR NOTES, SEE SHEET 42/100.
- 2. 1" STEEL PIPE AND SHEAR STUDS LEFT IN PLACE ON GIRDER 4 FROM PIER 5 TO HINGE 2. STEEL PIPE WAS USED FOR BIDWELL RAIL DURING DECK POUR. PIPES ARE UNDER PARAPET AND WERE FILLED WITH SCC DURING
- 3. I' STEEL PIPE AND SHEAR STUDS LEFT IN PLACE ON GIRDER 4 FROM PIER 5 TO HINGE 2.
- 4. STEEL PIPE WAS USED FOR BIDWELL RAIL DURING DECK
- 5. PIPES ARE UNDER PARAPET AND WERE FILLED WITH SCC DURING PARAPET POURS.

48/100

48 100



GIRDER ELEVATION (FOR DIMENSION REFERENCE ONLY) FOR GIRDERS 9 THROUGH 13



GIRDER ELEVATION FOR GIRDERS 9 THROUGH 13 SHEAR STUD LAYOUT

| SHEAR STUD SPACING | | | | | | | | | | |
|--------------------|----|--------|----|--------|----|--------|----|--------|----|--------|
| | Α | В | С | D | Ε | F | G | Н | Ι | J |
| G9 | 40 | 40.00' | 41 | 27.33′ | 54 | 27.00′ | 34 | 51.00′ | 61 | 91.50′ |
| G10 | 41 | 41.00' | 43 | 28.67' | 56 | 28.00′ | 36 | 54.00' | 61 | 91.50′ |
| GII | 42 | 42.00' | 45 | 30.00' | 59 | 29.50' | 37 | 55.50' | 62 | 93.00′ |
| G12 | 43 | 43.00' | 46 | 30.67′ | 62 | 31.00′ | 38 | 57.00′ | 62 | 93.00′ |
| G13 | 44 | 44.00' | 48 | 32.00' | 64 | 32.00' | 39 | 58.50′ | 62 | 93.00' |

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| | TOP FLANGE TENSION AND COMPRESSION ZONES | | | | | | |
|-----------|------------------------------------------|--------------|------------|-------------------------------------|-------------------------------------|-----------|------------|
| GIRDER | DIM "K" | DIM "L" | DIM "M" | DIM "N" | DIM "O" | DIM "P" | DIM "Q" |
| <i>G9</i> | 85′-6¾″ | 35′-10 1/8 " | 33'-21/4" | 79'-3 ¹ / ₂ " | 37'-11/8" | 31′-8¾″ | 99′-71⁄8″ |
| G10 | 87′-03/8″ | 36′-7″ | 33'-6¾" | 81′-5½″ | 37′-10½″ | 32′-5″ | 99′-71⁄8″ |
| G11 | 88′-6¾″ | 37′-25⁄8″ | 34'-101/8" | 85′-3¾″ | 36'-01/8" | 32'-93/4" | 99'-111/2" |
| G12 | 89'-101/2" | 38′-13/8″ | 35′-97/8″ | 86'-61/2" | 37'-11/2" | 33'-71/8" | 99′-9¾″ |
| G13 | 90′-7¾″ | 39′-6¾″ | 36′-0¾″ | 89′-3%″ | 37'-5 ¹ / ₂ " | 33'-41/2" | 100′-95⁄8″ |

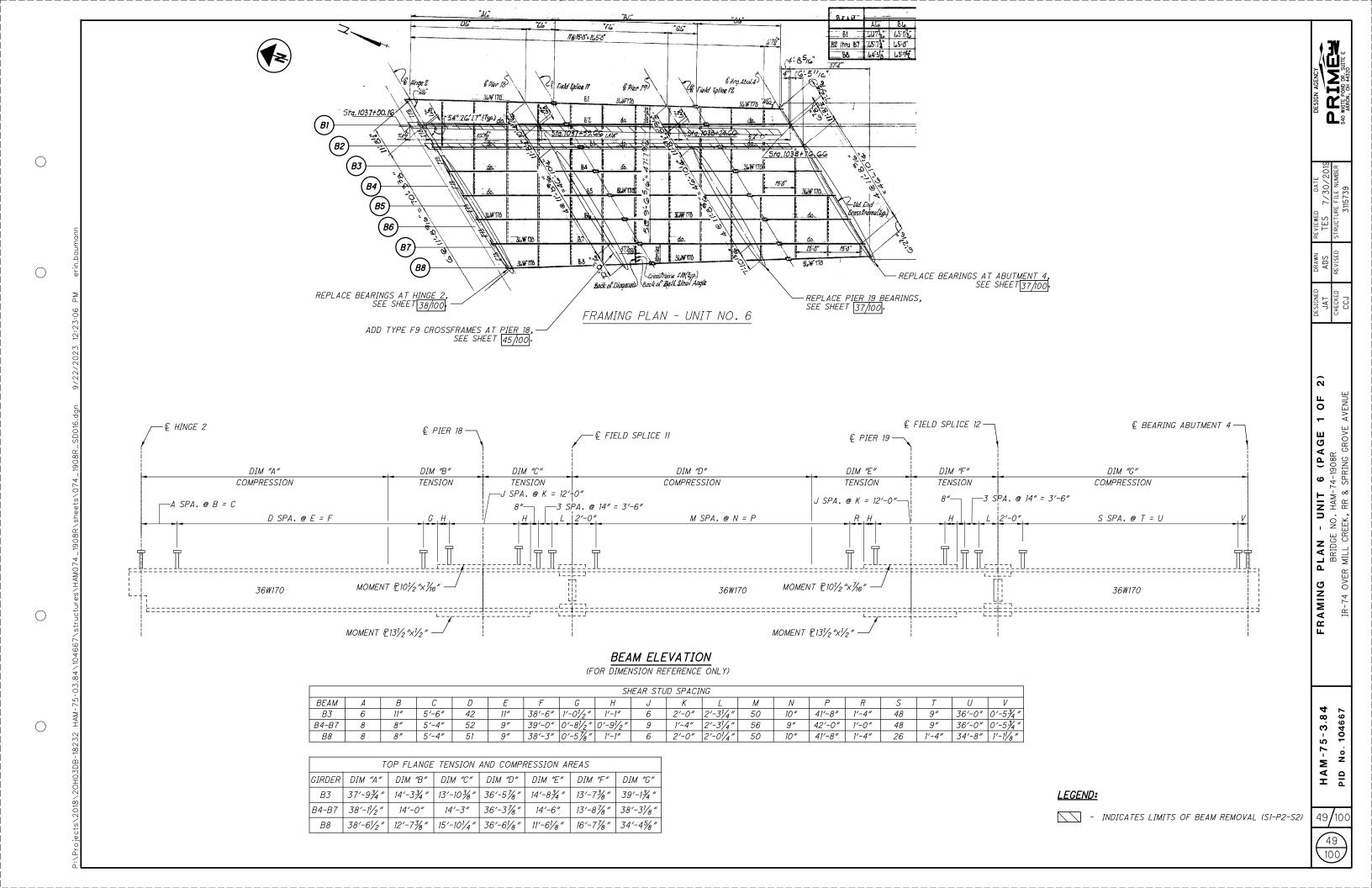
LEGEND:

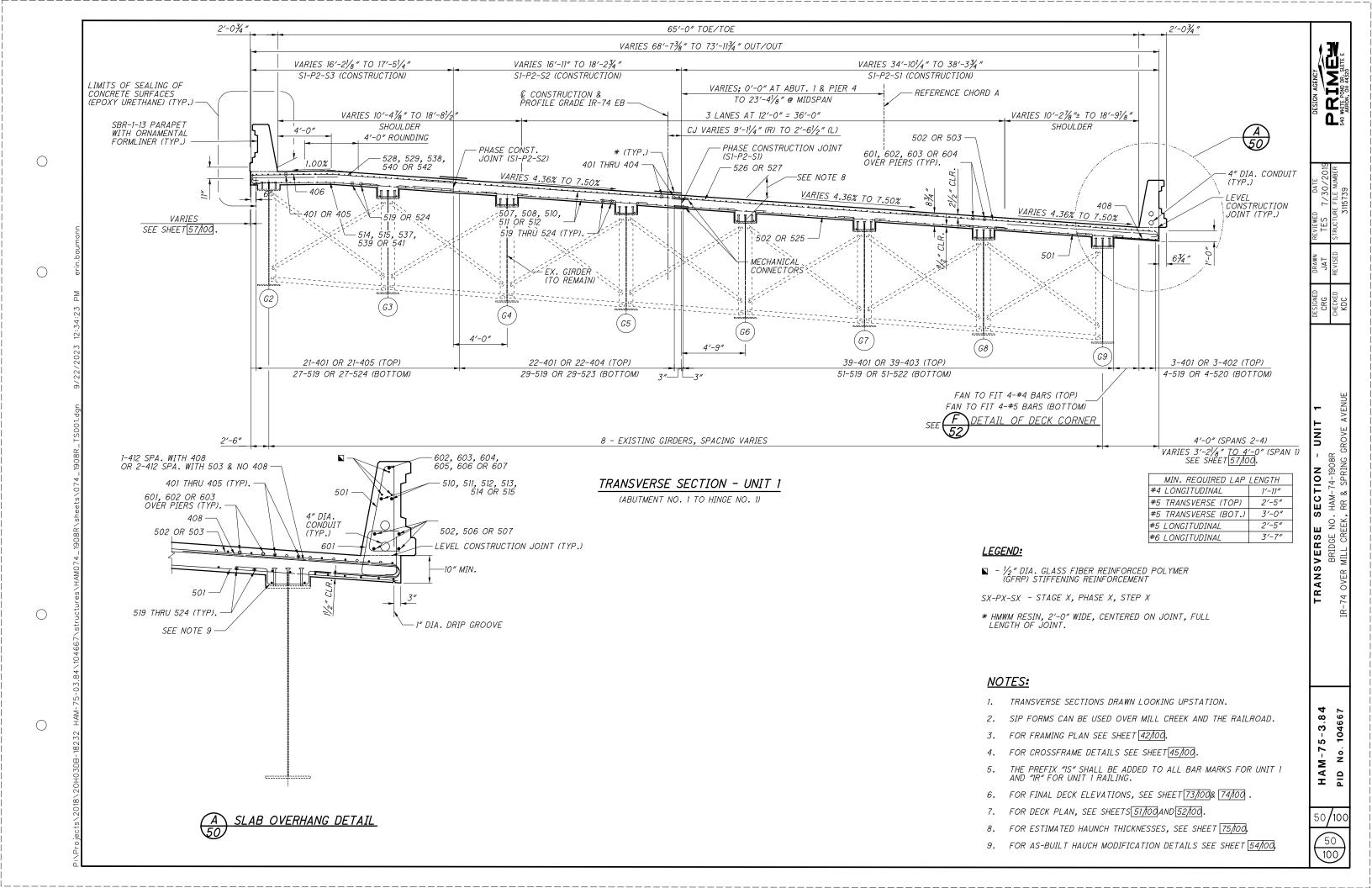
� - E SPA. @ 6" = F

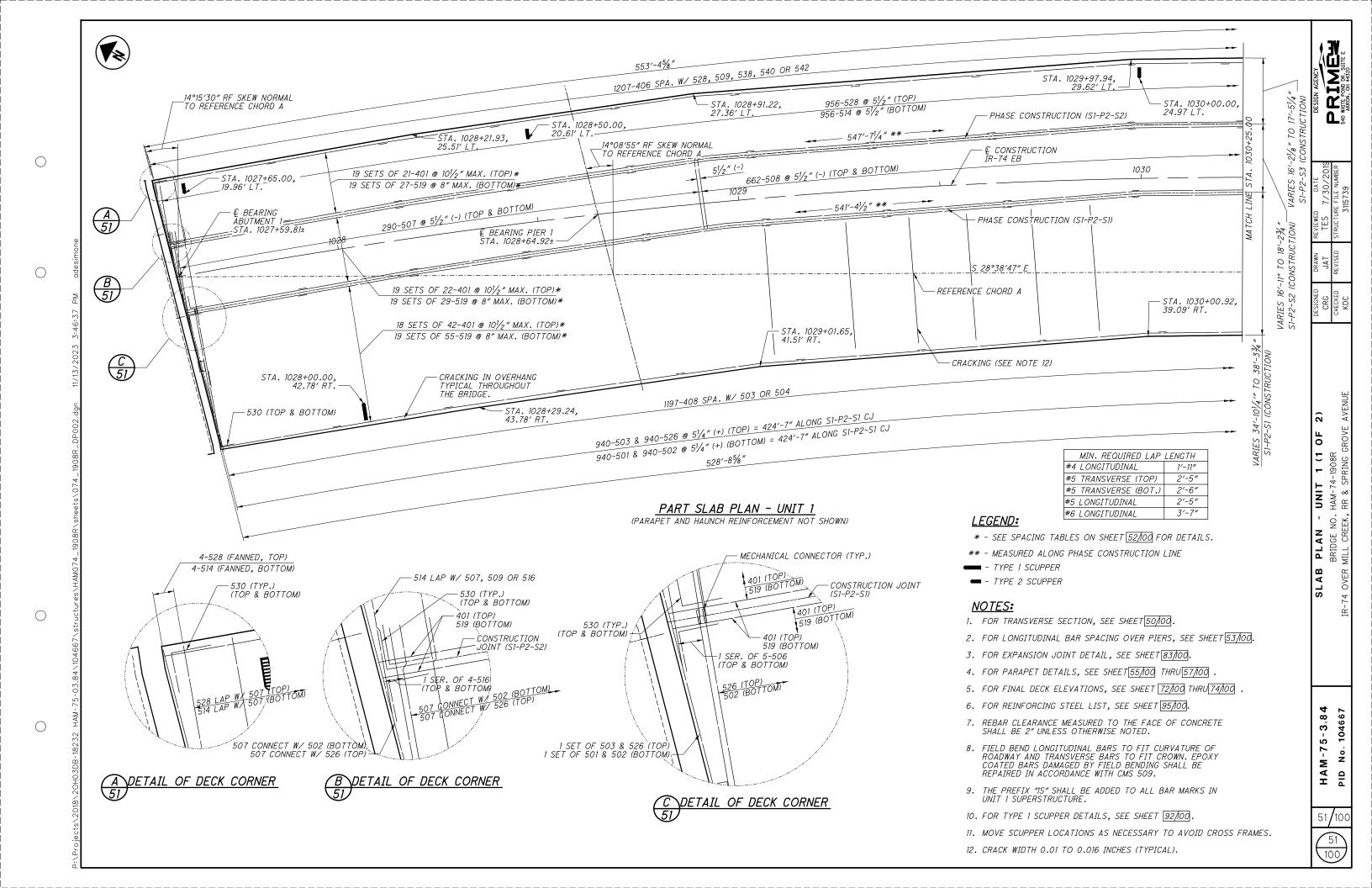
■ - G SPA. @ 1'-6" = H

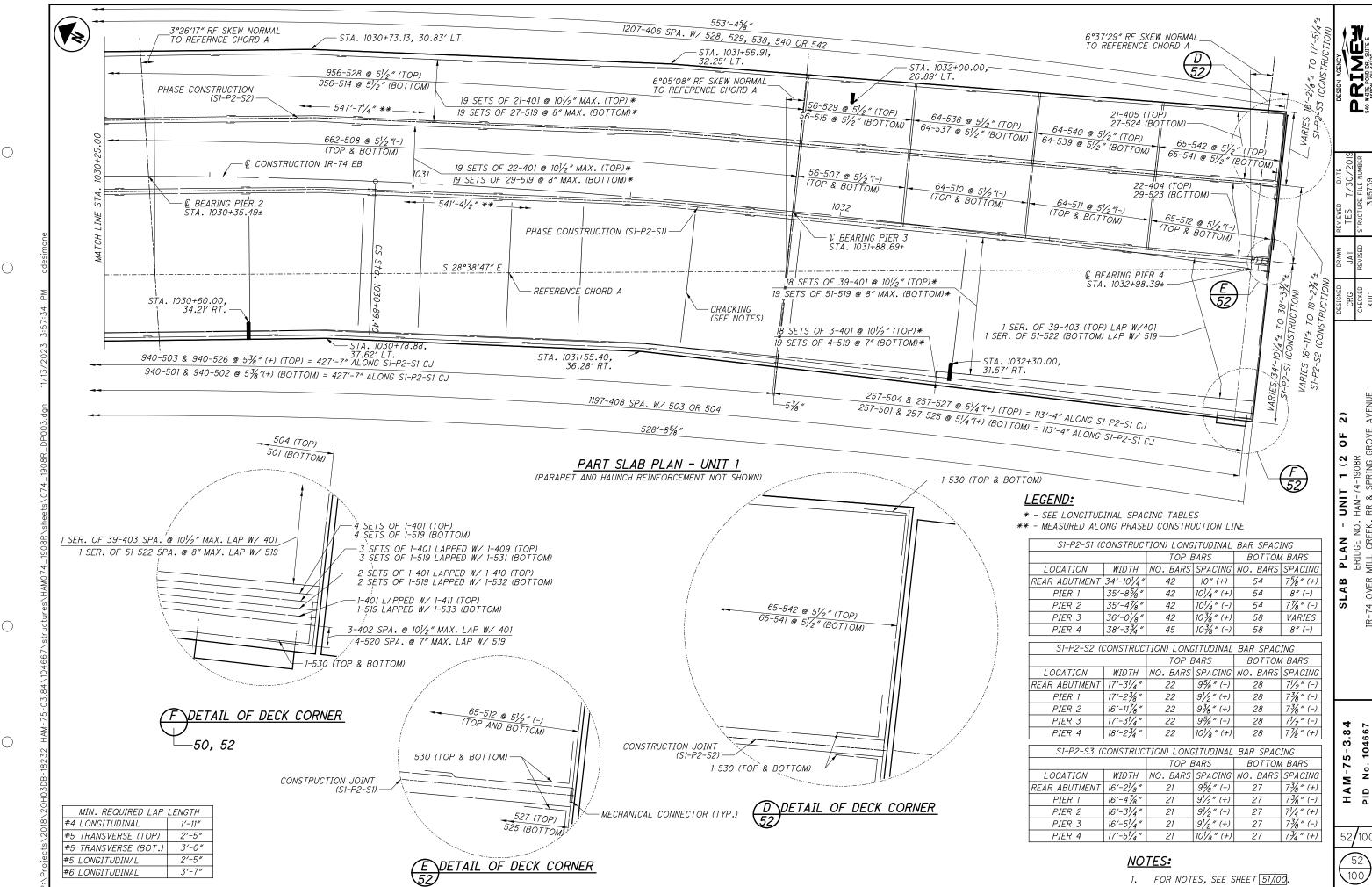
NOTES:

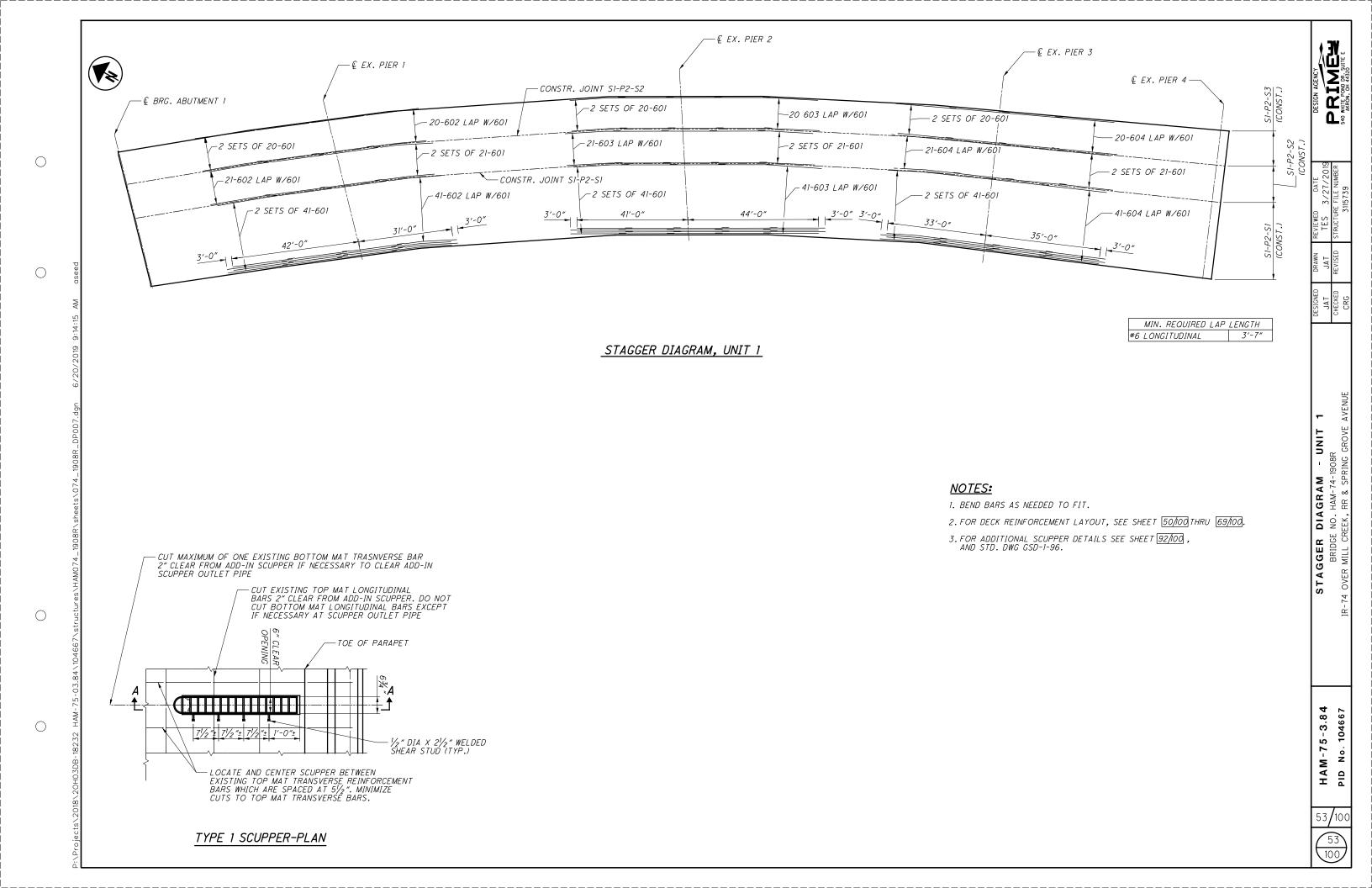
FOR INTERMEDIATE CROSSFRAME STIFFNER WELD DETAILS AND SHEAR STUD DETAILS, SEE SHEET 45/100.

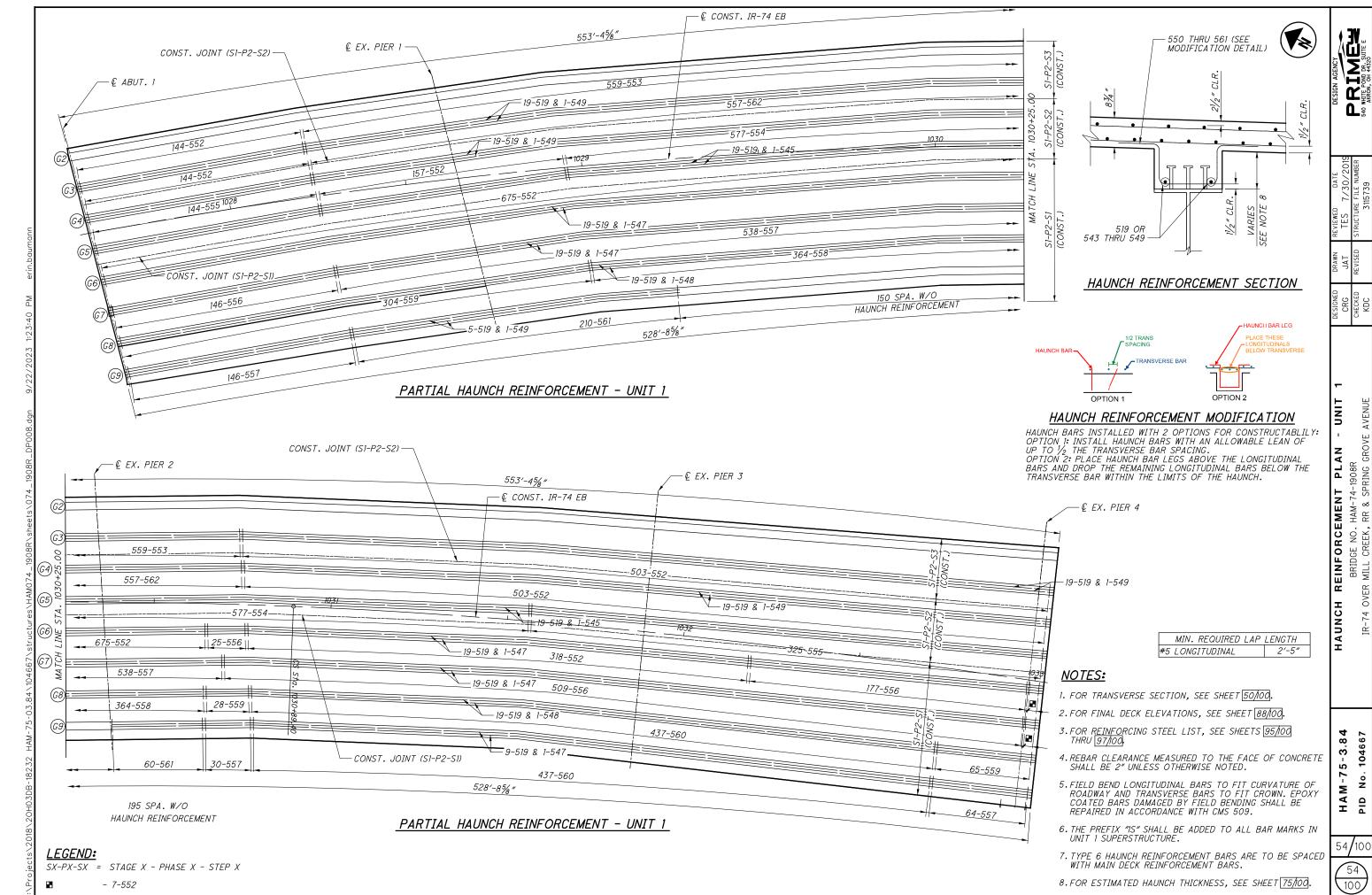




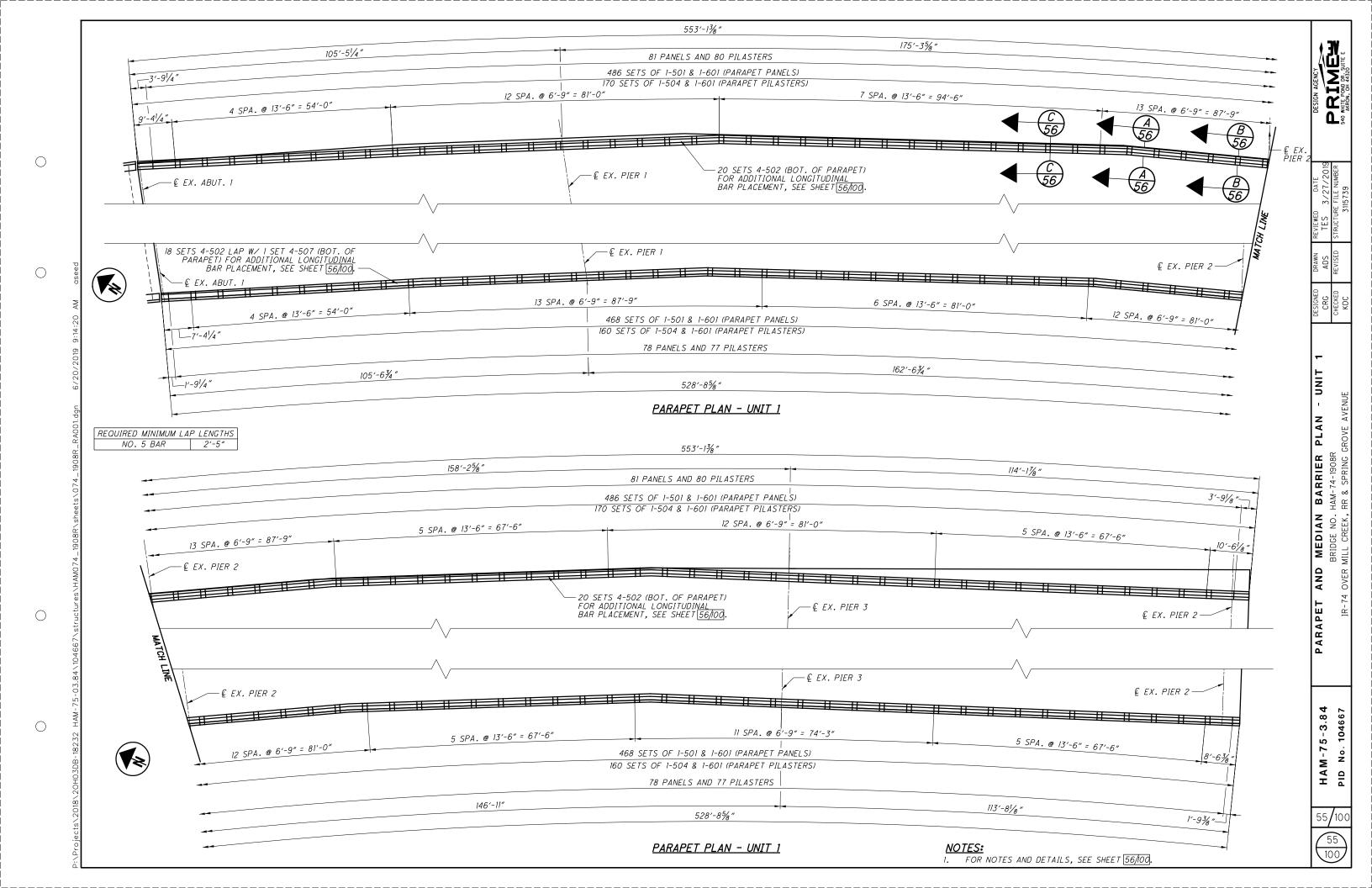


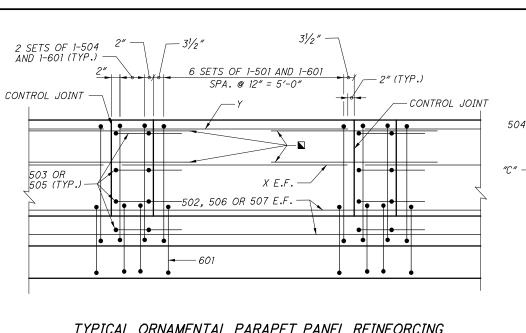






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TYPICAL ORNAMENTAL PARAPET PANEL REINFORCING (SINGLE PANEL SHOWN, DOUBLE PANEL SIMILAR)

| UNIT | CONTROL JT.
SPA. | # PANELS | BAR X | BAR Y |
|------|---------------------|----------|-------|-------|
| 1 | 6′-9″ | 73 | 510 | 602 |
| 1 | 13′-6″ | 41 | 511 | 603 |
| 1 | 9'-41/4" | 1 | 512 | 604 |
| 1 | 10′-6¾″ | 1 | 513 | 605 |
| 1 | 7'-41/4" | 1 | 514 | 606 |
| 1 | 8′-65/8″ | 1 | 515 | 607 |

| UNIT | CONTROL JT.
SPA. | # PANELS | BAR X | BAR Y |
|------|---------------------|----------|------------|-------|
| 2 | 6′-9″ | 46 | 510 | 602 |
| 2 | 13′-6″ | 33 | 511 | 603 |
| 2 | 9′-3¾″ | 1 | 512 | 604 |
| 2 | 10′-5¾″ | 1 | 513 | 605 |
| 2 | 7′-4″ | 1 | 514 | 606 |
| 2 | 8′-6″ | 1 | <i>515</i> | 607 |

| UNIT | CONTROL JT.
SPA. | # PANELS | BAR X | BAR Y |
|------|---------------------|----------|-------|-------|
| 6 | 6′-9″ | 33 | 510 | 602 |
| 6 | 13′-6″ | 6 | 511 | 603 |
| 6 | 7′-2″ | 1 | 512 | 604 |
| 6 | 8′-37/8″ | 1 | 513 | 605 |
| 6 | 8'-71/8" | 1 | 514 | 606 |
| 6 | 9'-91/8" | 1 | 515 | 607 |

NOTES:

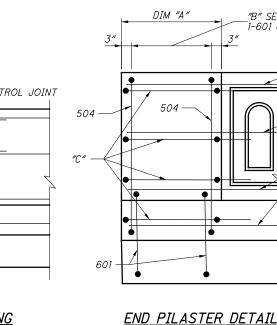
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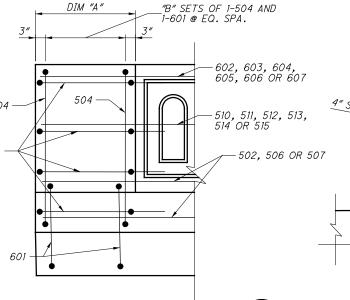
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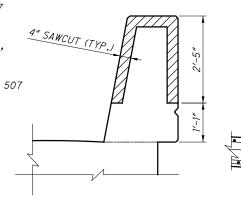
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- 1. THE PREFIX "IR" SHALL BE ADDED TO ALL BAR MARKS FOR PARAPET DETAILS IN UNIT 1, "2R" SHALL BE ADDED TO ALL BAR MARKS FOR PARAPET DETAILS IN UNIT 2 AND "3R" SHALL BE ADDED TO ALL BAR MARKS FOR PARAPET DETAILS IN UNIT 3.
- 2. FOR REINFORCING STEEL LIST, SEE SHEET 98/100
- 3. FOR ADDITIONAL DETAILS, SEE STANDARD DRAWING SBR-1-13.

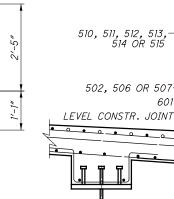




DIM "A"



SECTION THRU CONTROL JOINT DETAIL



602, 603, 604, 605, 606 OR 607



1'-11"

33/4"

DELETE POIND DR. SUITF F

PARAPET DETAILS
BRIDGE NO. HAM-74-1908R
MILL CREEK, RR & SPRING GR

HAM-75-3.84 Š PID

56/100

56 100

| | | | | | T_55,64,70 | |
|----|--------------|----------|-----|-----|------------|------|
| | END F | ILASTERS | | | | TA |
| ΊΤ | SIDE OF SLAB | DIM "A" | "B" | "C" | | UNIT |
| 1 | LEFT | 3'-91/8" | 5 | 508 | | , |
| 1 | RIGHT | 1'-91/4" | 3 | 509 | | _ ′ |
| 2 | LEFT | 3′-8¾″ | 5 | 508 | | 2 |
| 2 | RIGHT | 1′-9″ | 3 | 509 | | 2 |
| 5 | LEFT | 1′-7″ | 3 | 508 | | 6 |
| 6 | RIGHT | 3'-01/8" | 4 | 509 | | |
| | · | | | | | |

| TABLE 1 - PARAPET OVERHANGS | | | | | |
|-----------------------------|-----------------------------|-------|--|--|--|
| UNIT | LEFT | RIGHT | | | |
| 1 | VARIES, SEE SHEET
57/100 | 6¾" | | | |
| 2 | VARIES, SEE SHEET
67/100 | 6¾" | | | |
| 6 | 6¾″ | 6¾" | | | |

LEGEND:

-55**,**64**,**70

2'-03/4"

8" 1'-43/4"

SECTION THRU PILASTER

602, 603, 604, -605, 606 OR 607

510, 511, 512, 513, 514 OR 515

LEVEL CONSTR. JOINT

502, 506 OR 507

<u></u>55,64,70

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

503 OR 505

(RIGHT PARAPET ONLY) (TYP.)

2'-03/4"

10"

1′-6″

41/2" —

63/4"

21/4"

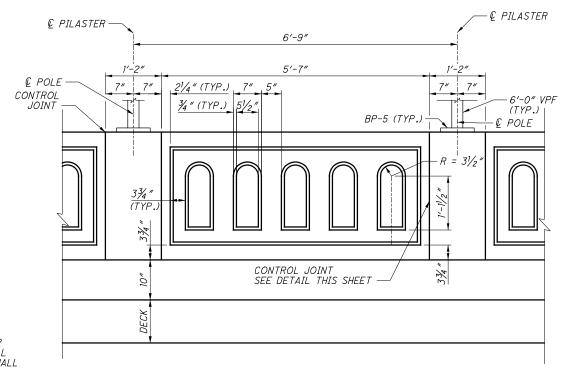
-501

VARIES

-4″ DIA. CONDUIT (RIGHT PARAPET ONLY)(TYP.)

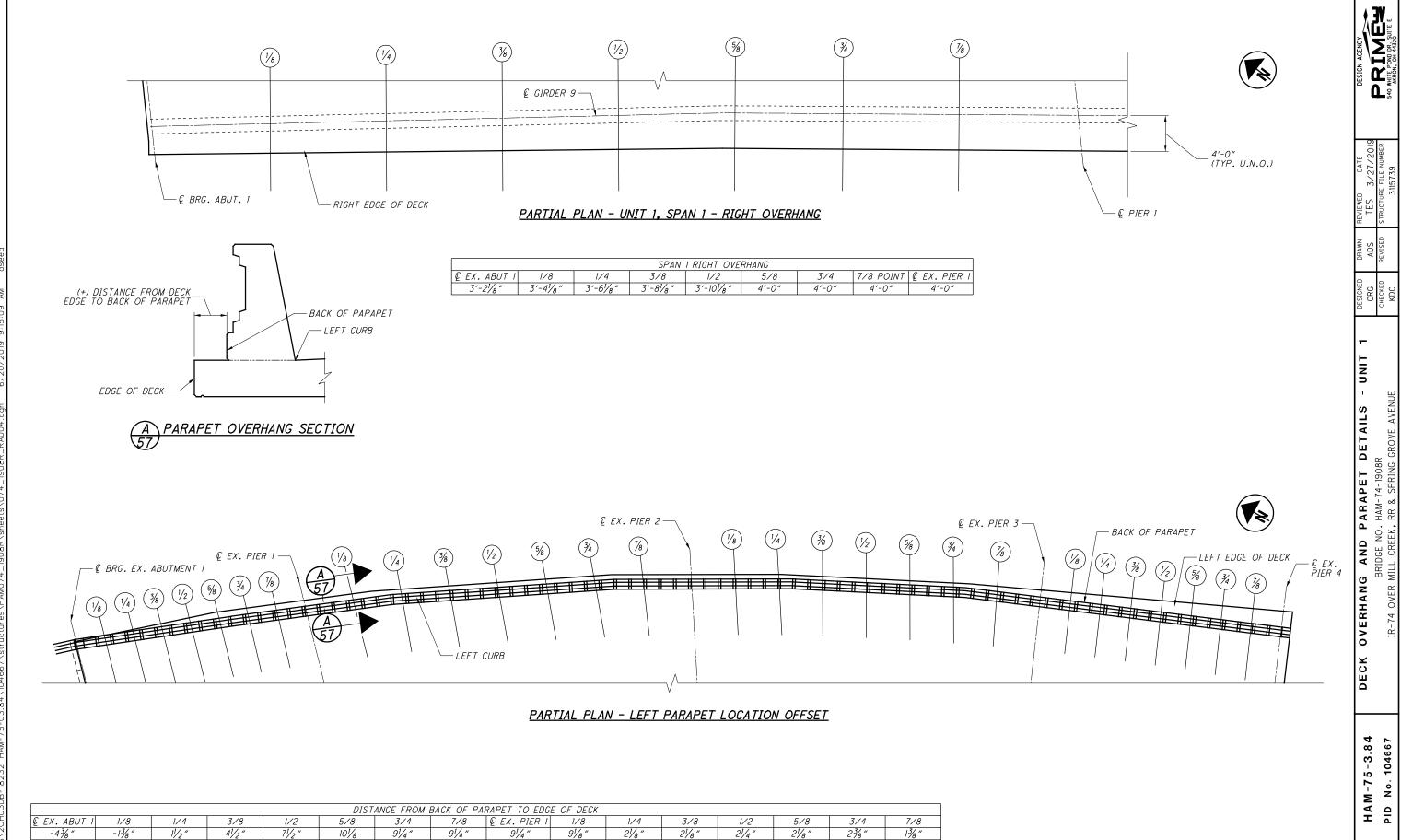
SEE TABLE 1

SECTION THRU PANEL



(VPF ON SPAN 7 OVER THE RAILROAD ONLY)

TYPICAL ORNAMENTAL PARAPET PANEL



DISTANCE FROM BACK OF PARAPET TO EDGE OF DECK

€ EX. PIER 3

1/8

1/4

3/8

2' 81/8"

1/2

5/8

3/4

7/8

4' 81/8"

€ EX. PIER 4 5' 31/8"

7/8

E EX. PIER 2

1/8

3/8

-2"

NOTE: NEGATIVE NUMBER IMPLIES PARAPET OVERHANGS EDGE OF DECK

1/2

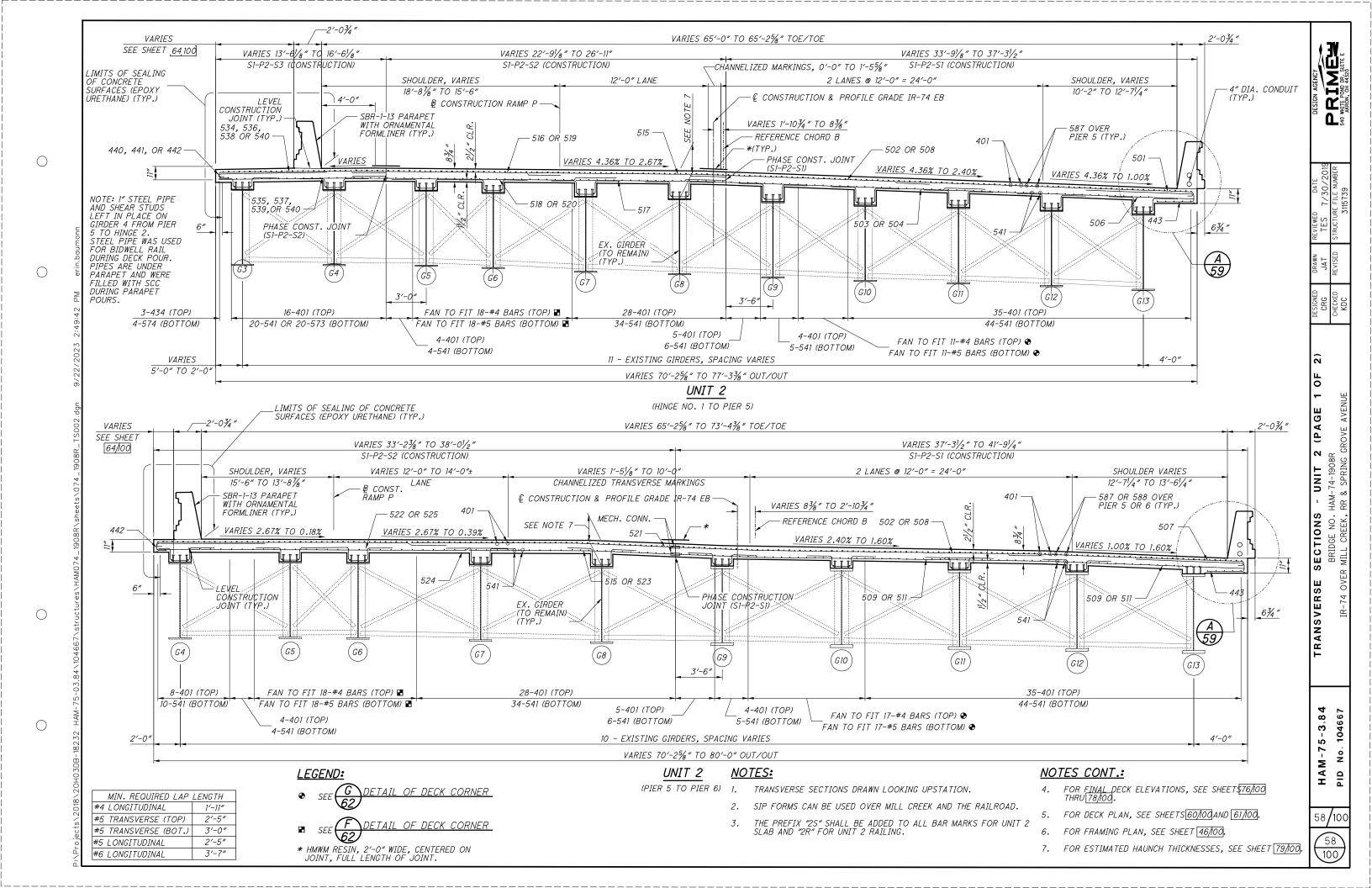
5/8

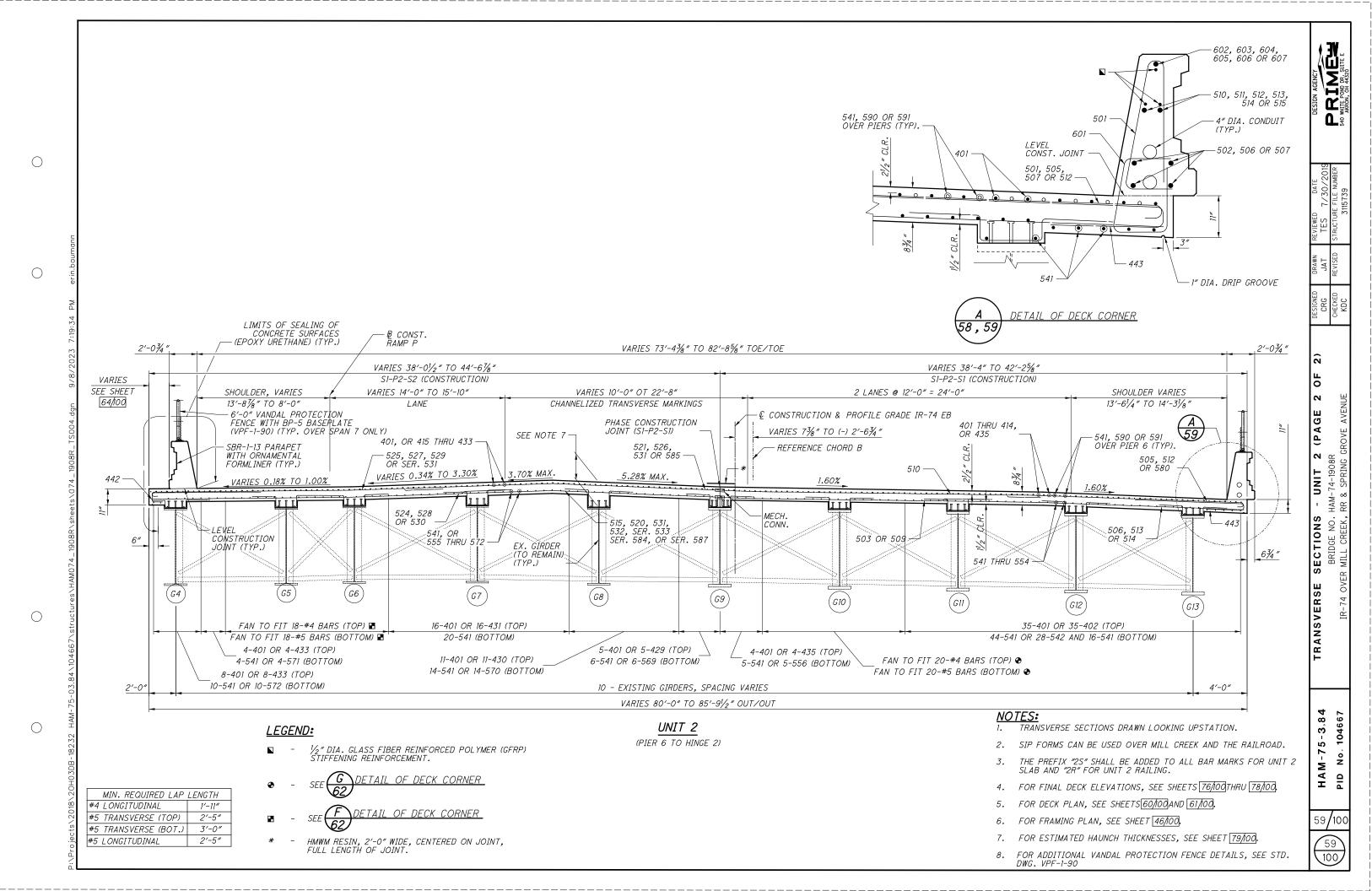
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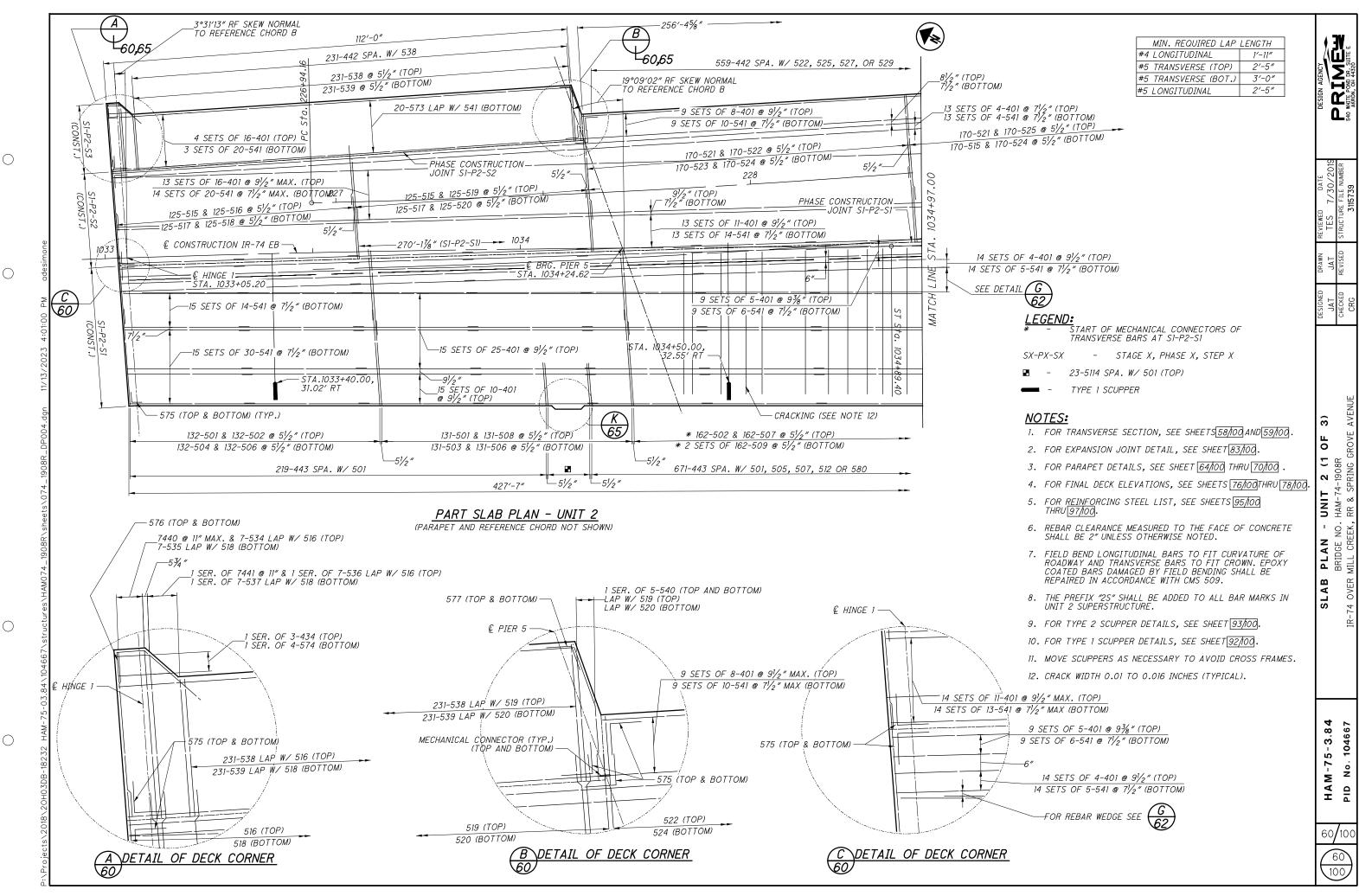
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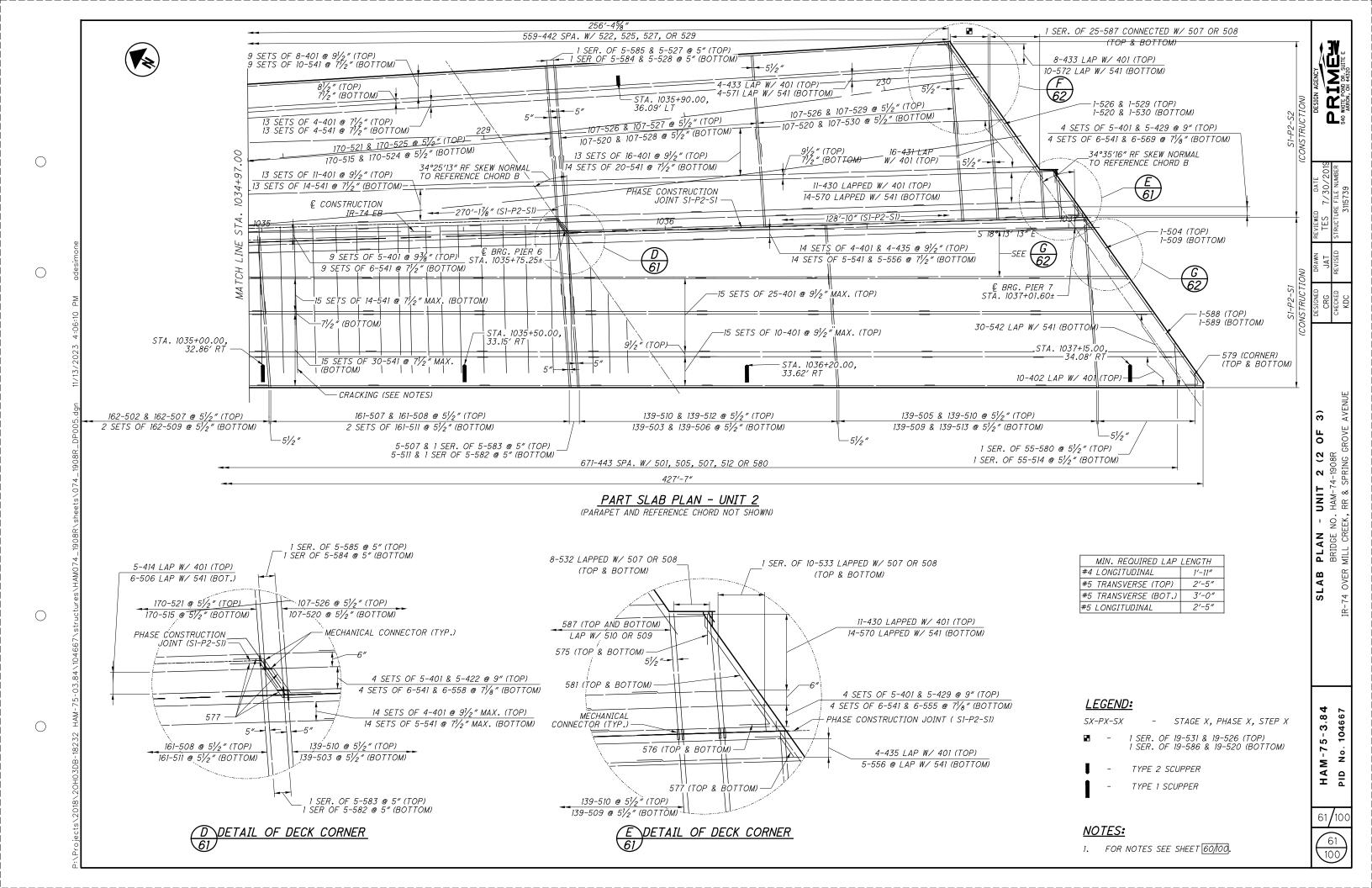
HAM-75-3.84 No. 104667 PID

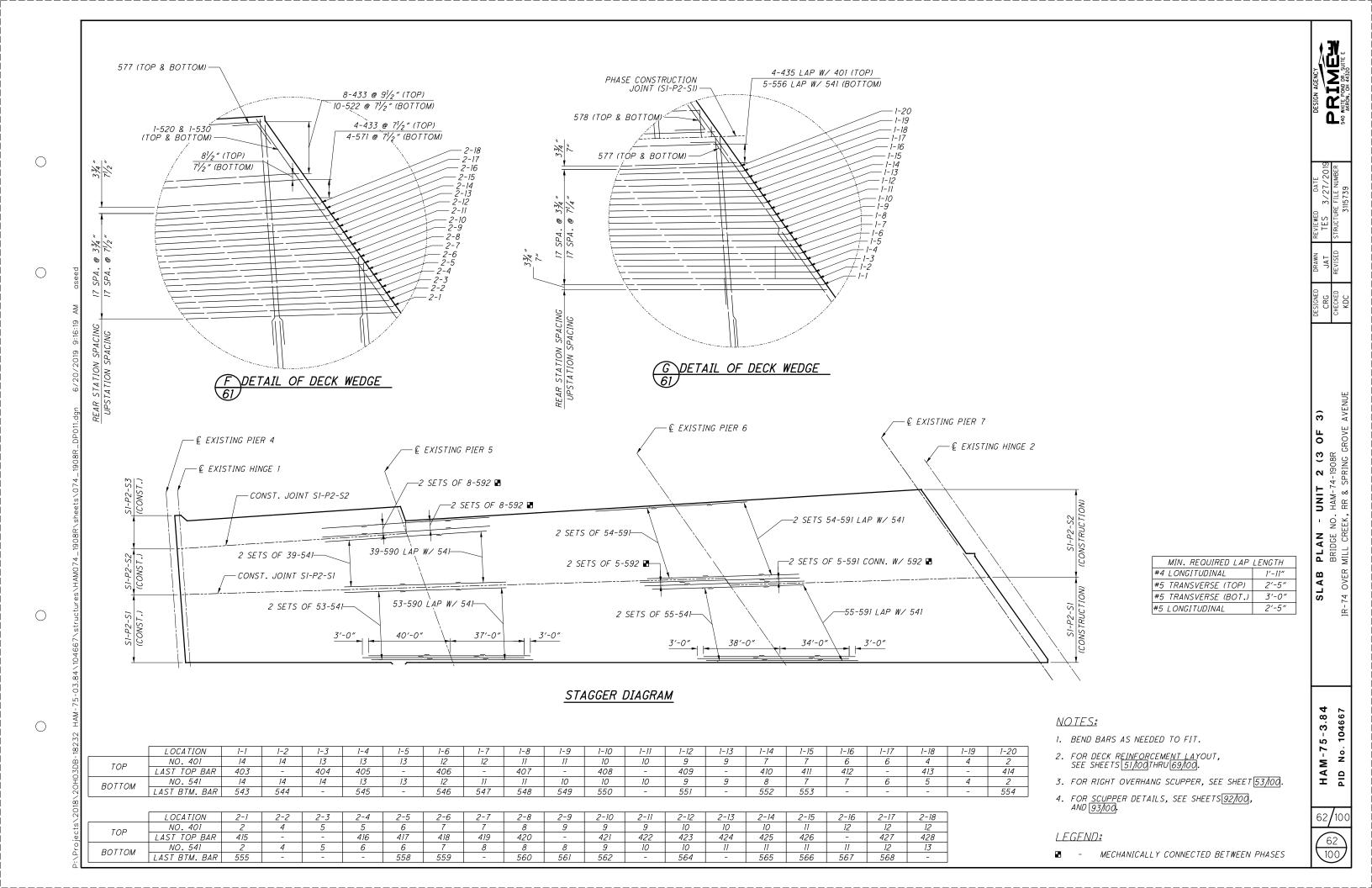


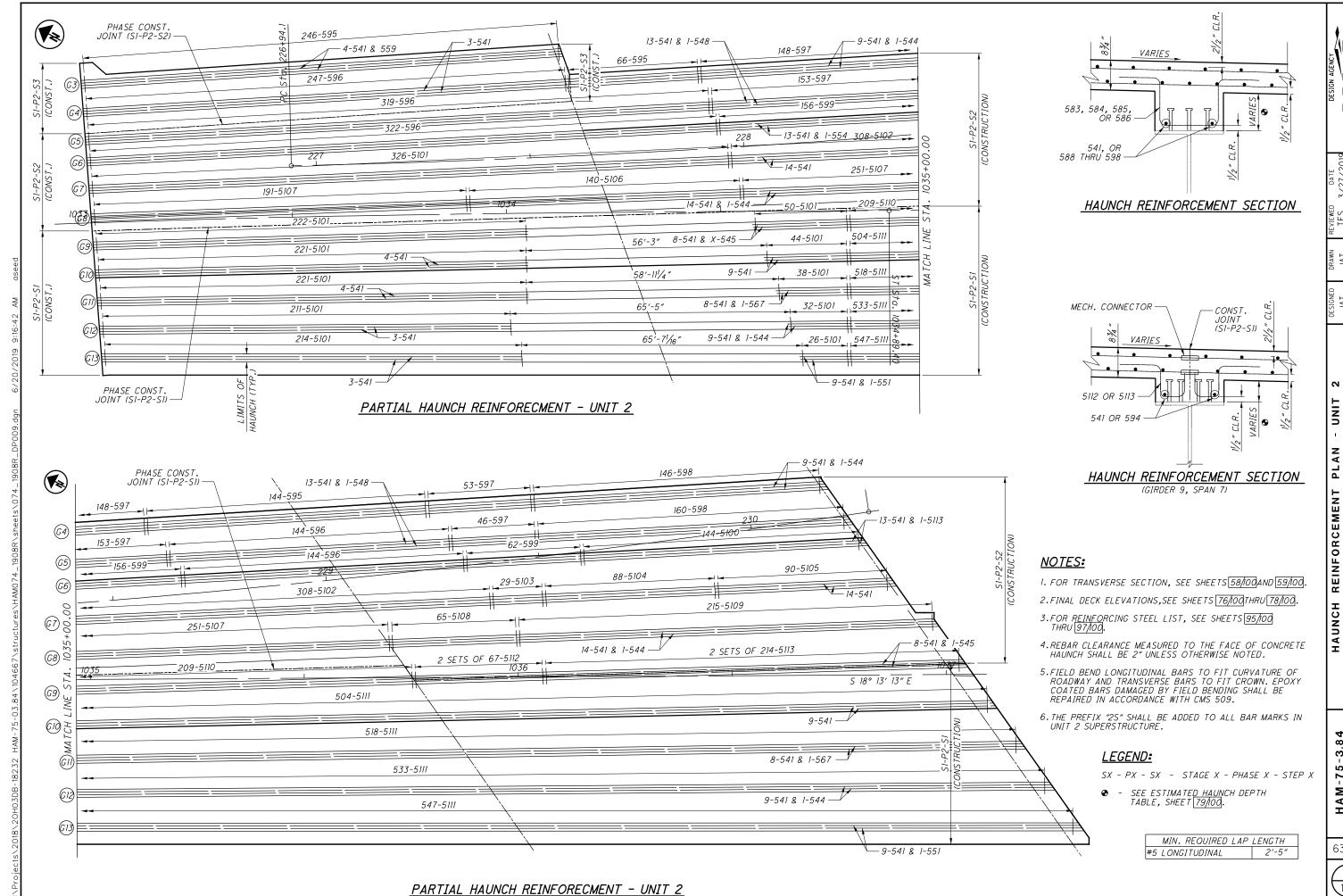




MITE POND DR CLITTY







DE SIGN AGENCY

DE SIGN AGENCY

540 WHITE POND DR. SUITE E

AKRON, OH 44320

3/27/2019 RE FILE NUMBER 3115739

AMN REVIEWED DATE

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VISED STRUCTURE FILE NUM

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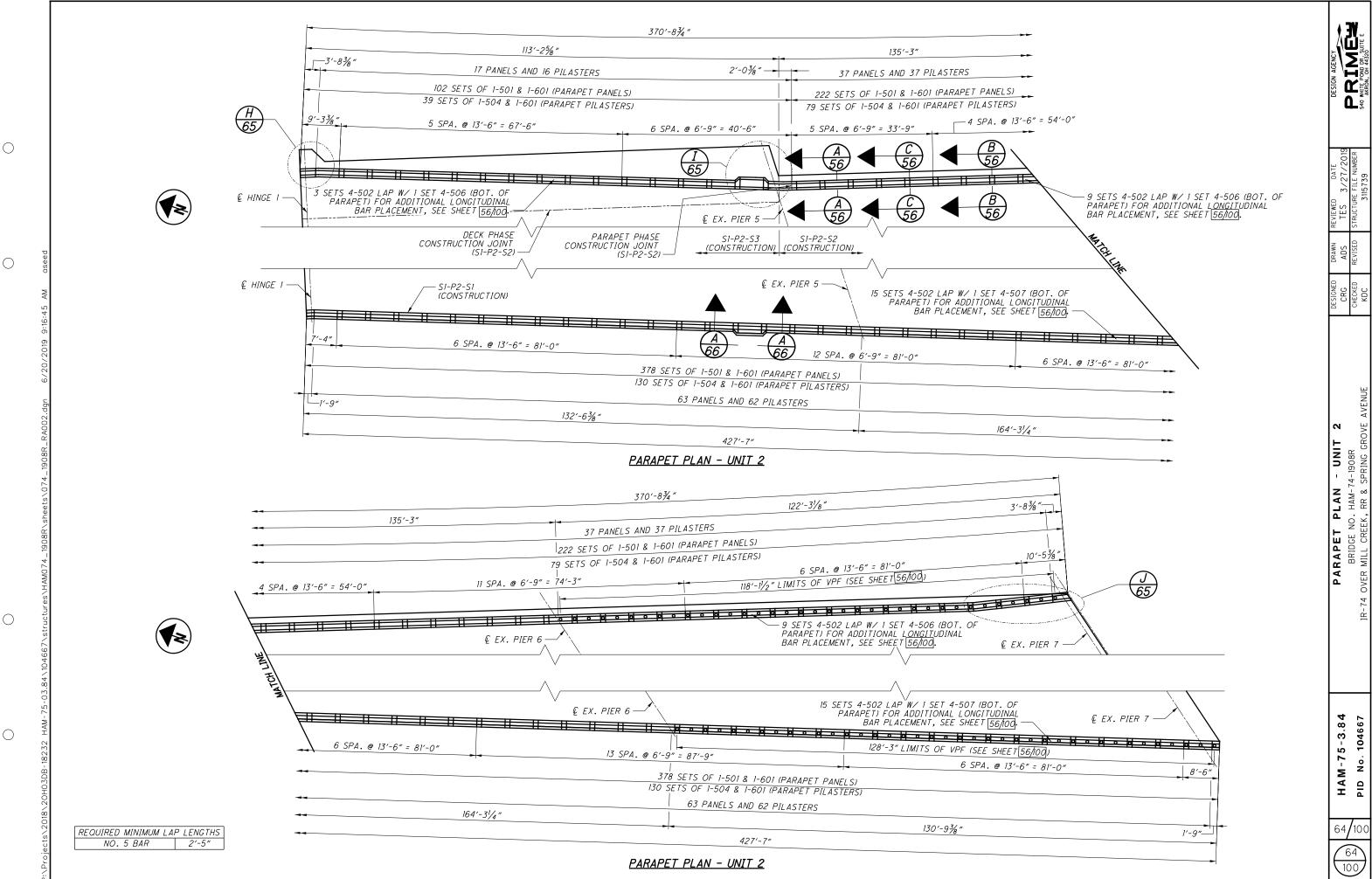
AN - UNII Z SROVE AVENUE

REINFORCEMENT PLAN - U BRIDGE NO. HAM-74-1908R VER MILL CREEK, RR & SPRING GROVE AN

HAUNCH REINFO

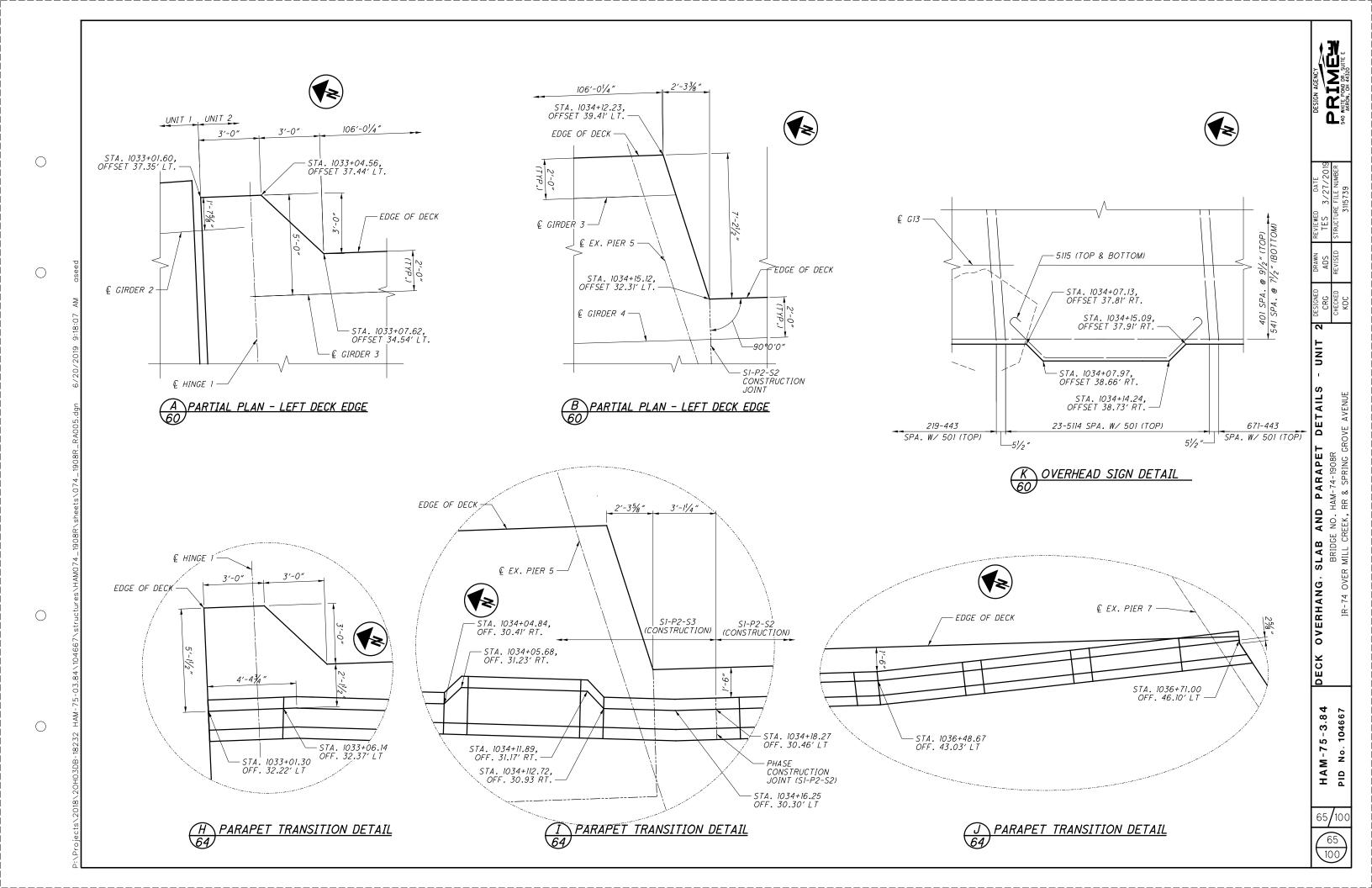
HAM-75-3.84 PID No. 104667

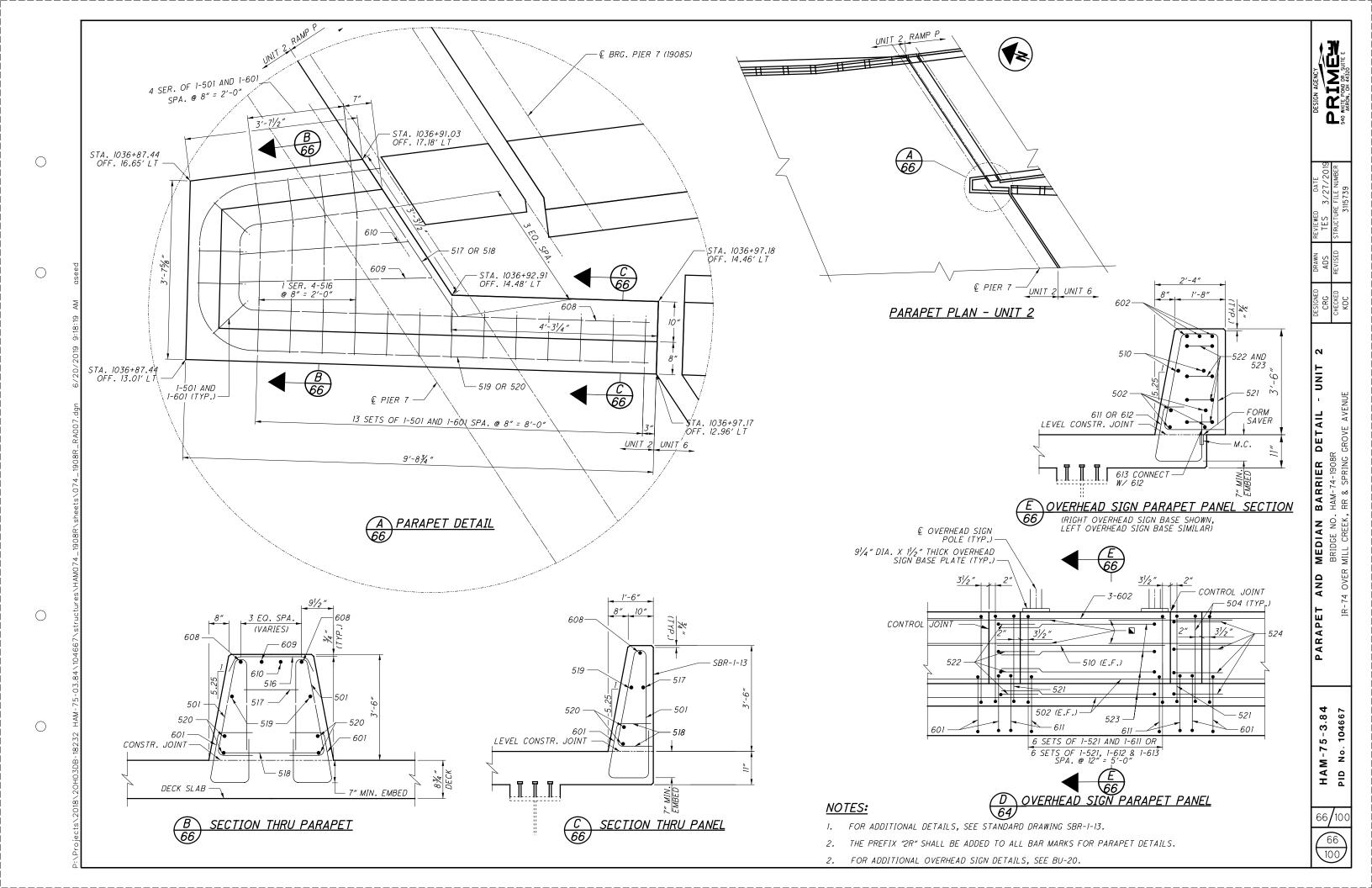
63/100

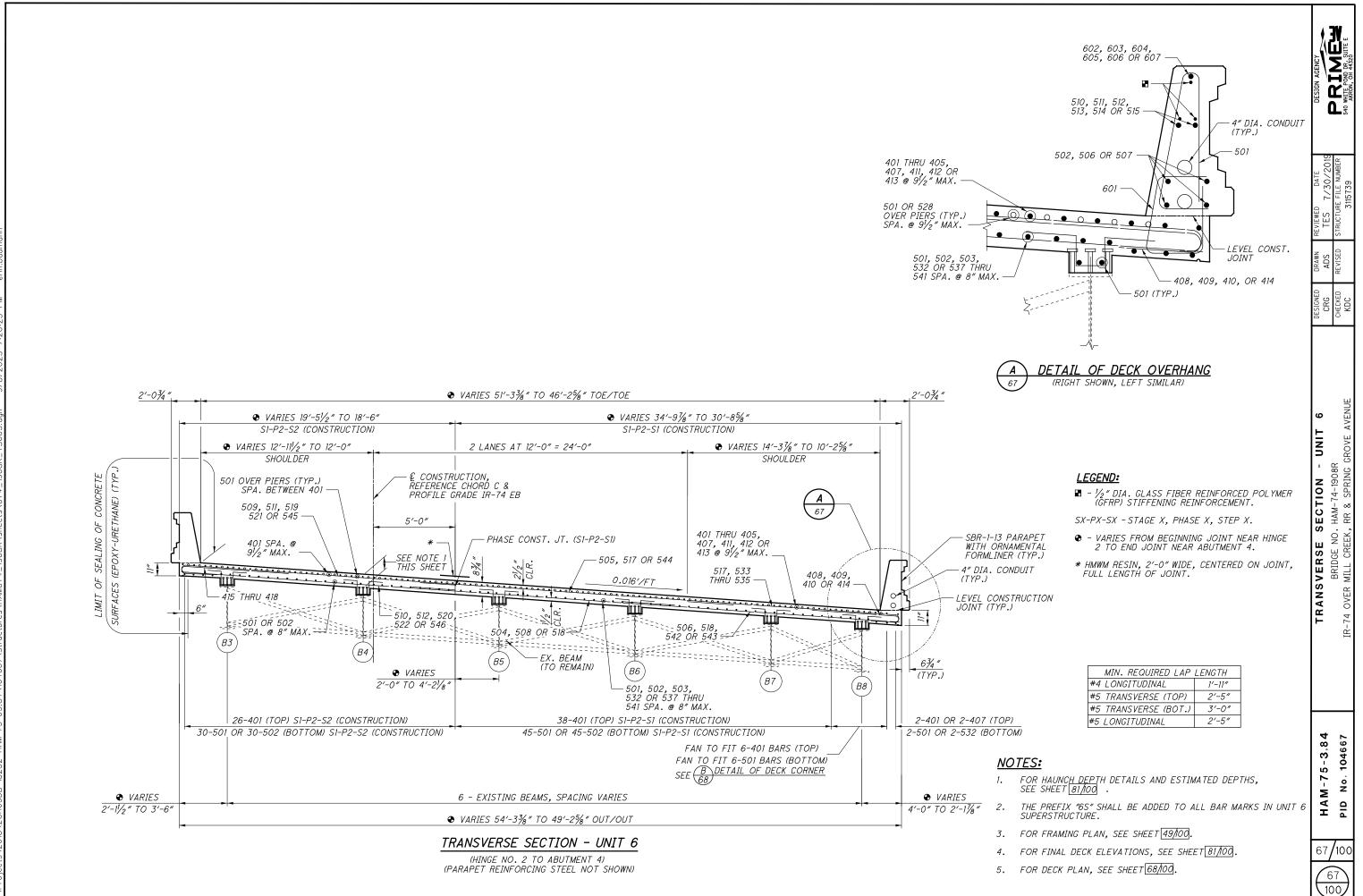


104667 PID

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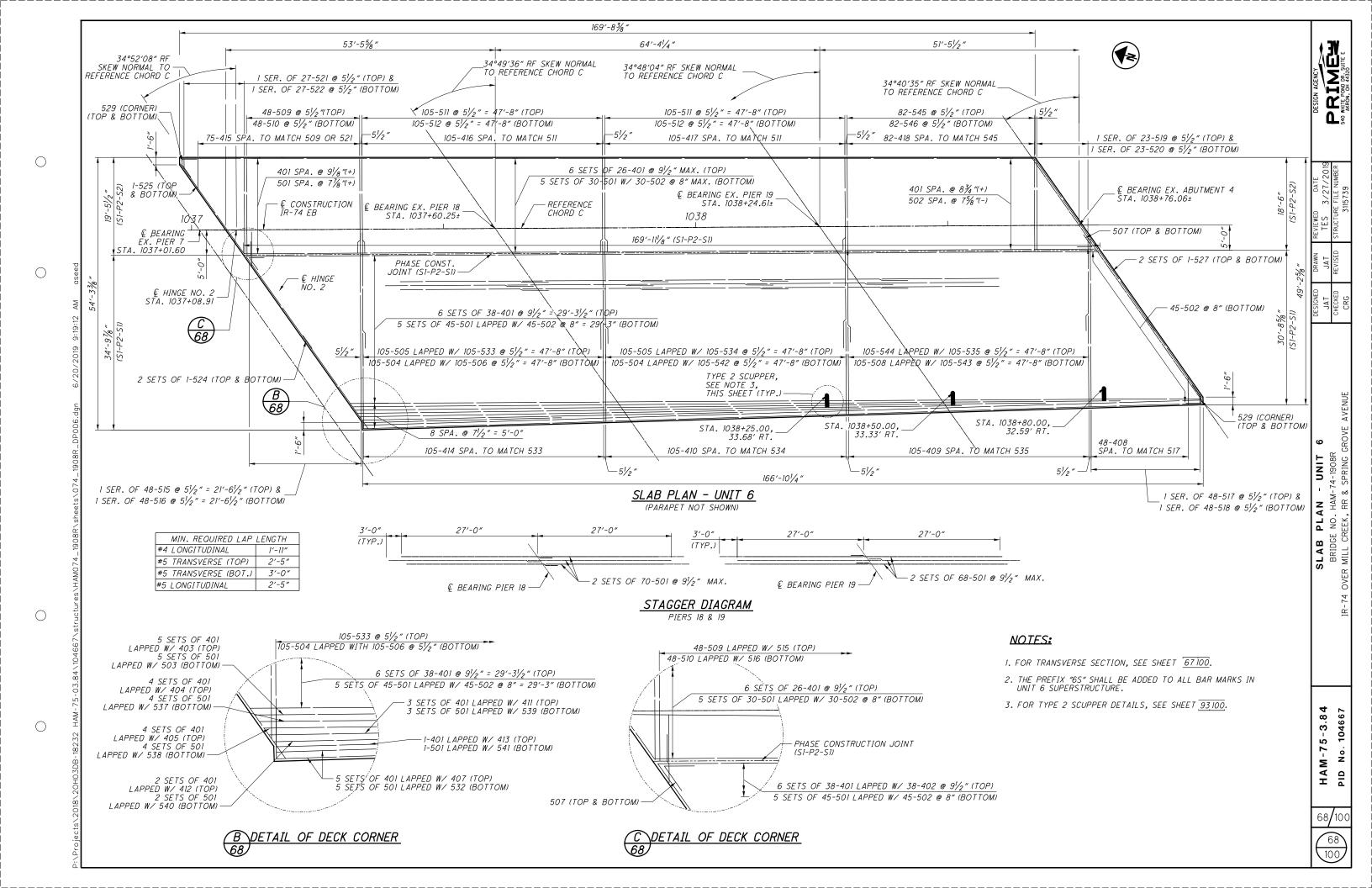


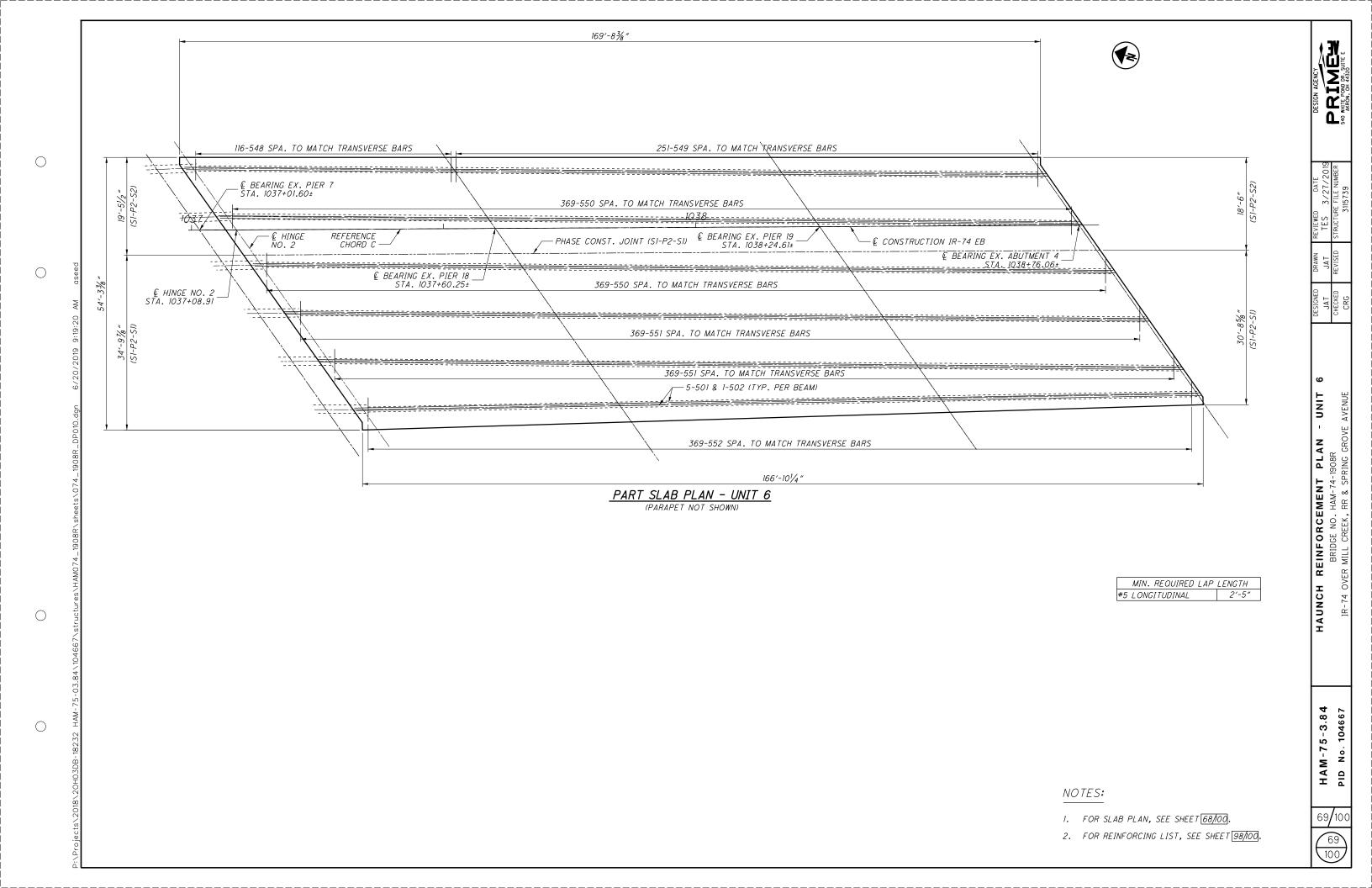


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PARAPET PLAN - UNIT BRIDGE NO. HAM-74-1908R OVER MILL CREEK, RR & SPRING GR

HAM-75-3.84 PID No. 104667

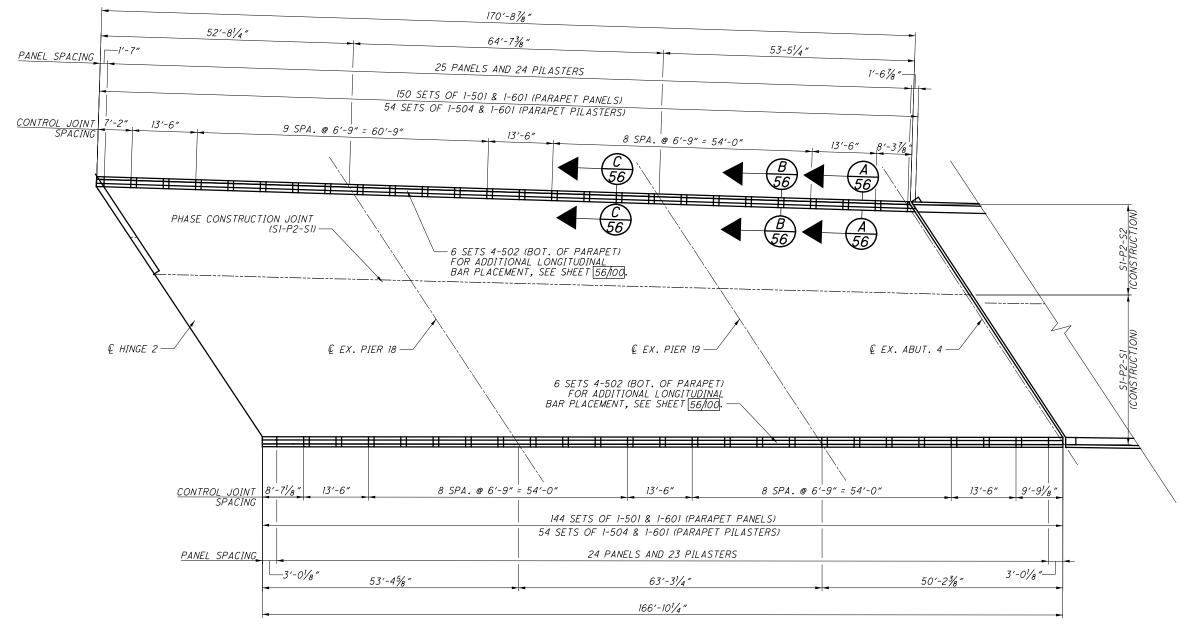
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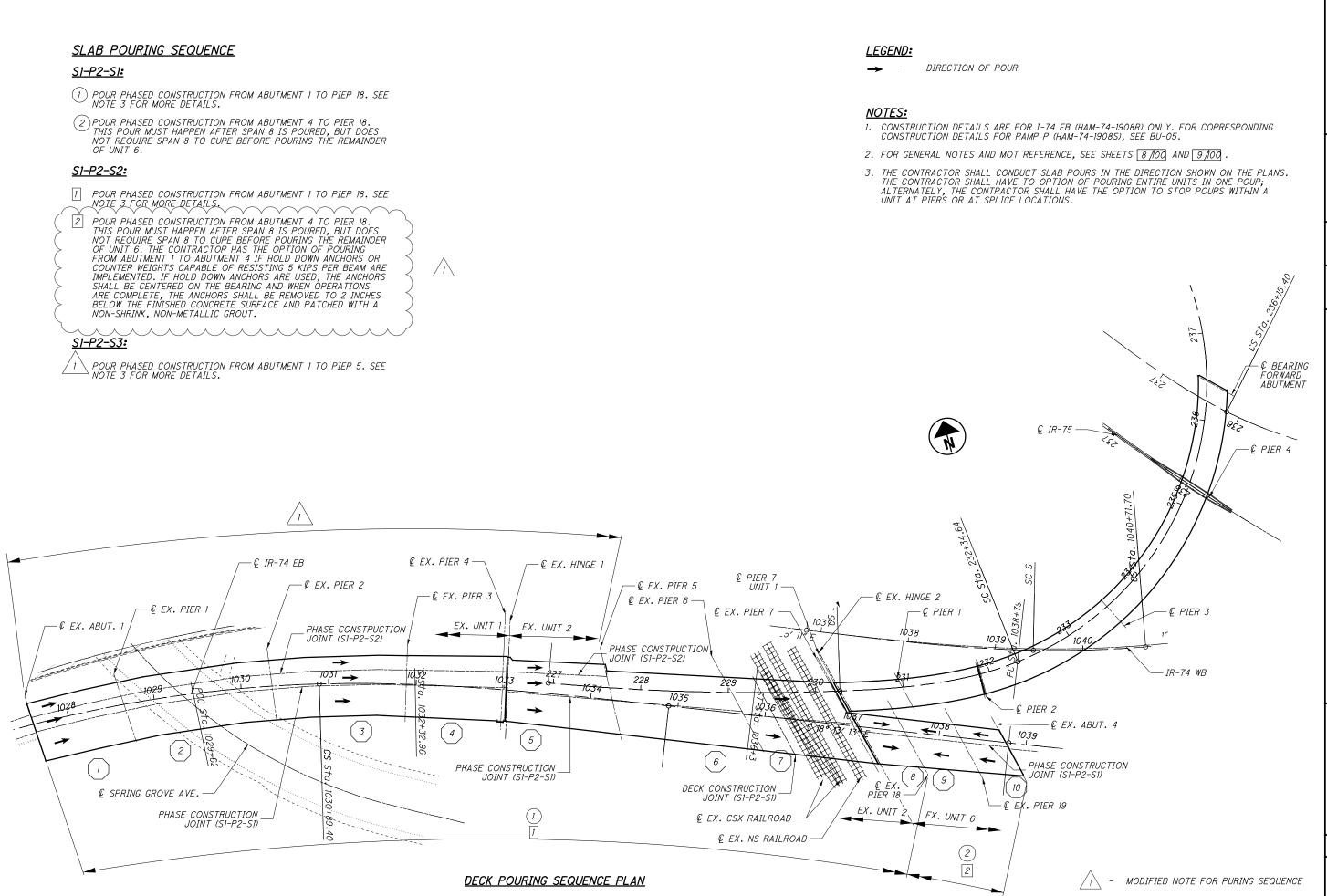


PARAPET PLAN - UNIT 6

NOTES:

- 1. SEE SHEET 56/100 FOR PARAPET DETAILS.
- 2. ALL DIMENSIONS ALONG EDGE OF SLAB UNLESS NOTED OTHERWISE.
- 3. THE PREFIX "GR" SHALL BE ADDED TO ALL BAR MARKS FOR PARAPET DETAILS.
- 4. FOR REINFORCING STEEL LIST, SEE SHEET 99/100.

REQUIRED MINIMUM LAP LENGTHS NO. 5 BAR 2'-5"



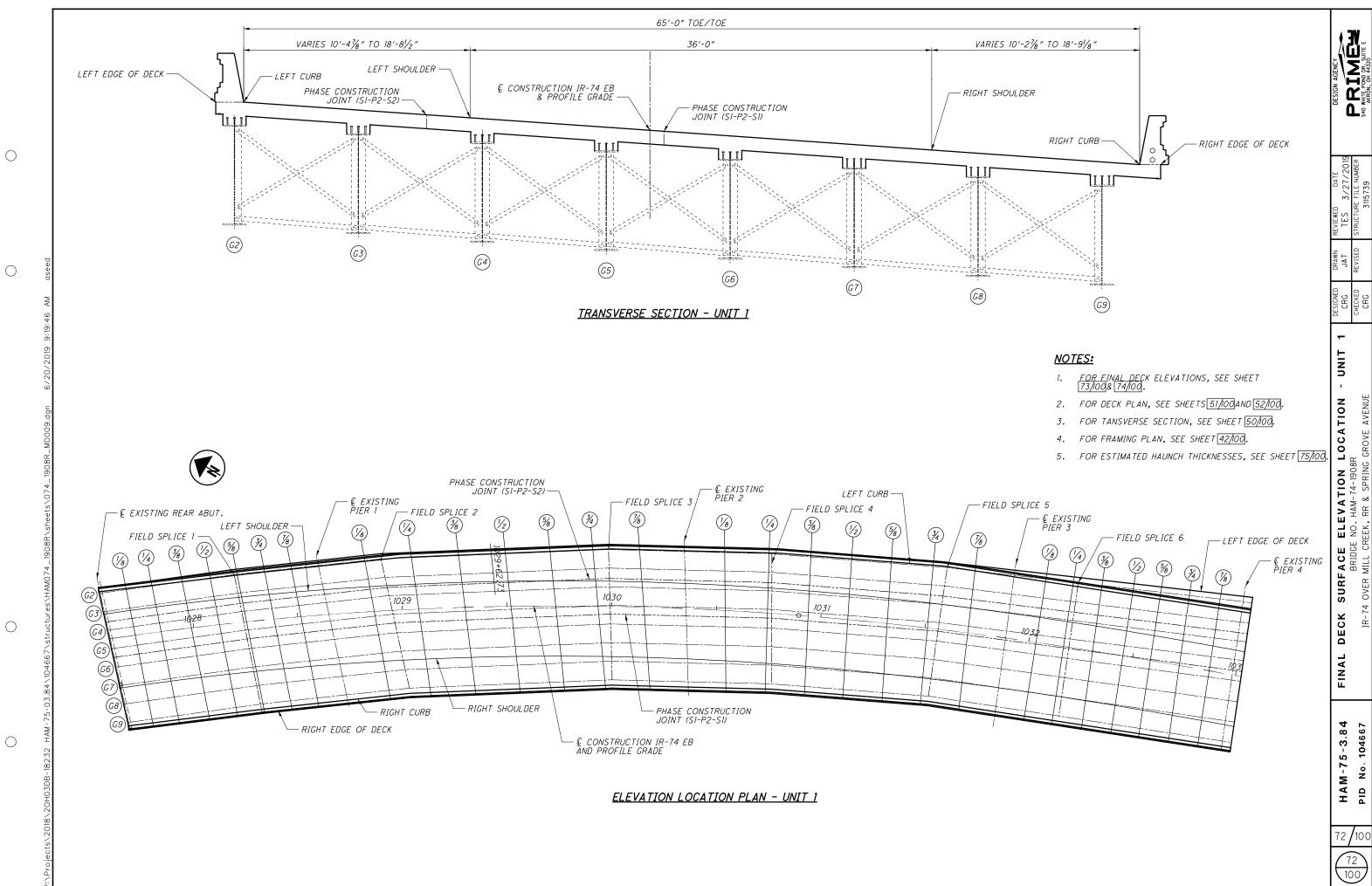
WHITE POND DR. SUITE E **T**[§]

SEQUENCE 74-1908R

DECK POURING

BRIDGE NO. HAM-1
OVER MILL CREEK, RR &

3.84 HAM-75-



DESCRIPTION OF SUITE E AKRON. OH 42300

FACE BRIDGE MILL CRE

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| | | | | | | | | | FINAL DECK | SURFACE E | ELEVATIONS | - UNIT 1 | | | | | | | | | | |
|-------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|-----------------|
| | | ABUTMENT 1 | 1/8 POINT | 1/4 POINT | 3/8 POINT | 1/2 POINT | FS1 | 5/8 POINT | 3/4 POINT | 7/8 POINT | © BRG. PIER 1 | 1/8 POINT | FS2 | 1/4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | FS3 POINT | 7/8 POINT | © BRG. PIEF | |
| LEFT EDGE | STATION
ELEV. | 1027+58.10
517.36 | 1027+71.01
517.52 | 1027+83.92
517.72 | 1027+96.82
517.95 | 1028+09.72
518.19 | 1028+21.72
518.80 | 1028+22.61
518.82 | 1028+35.51
518.73 | 1028+48.41
519.03 | 1028+61.30
519.34 | 1028+82.83
519.92 | 1028+91.67
520.53 | 1029+04.36
520.53 | 1029+25.90
521.11 | 1029+47.44
521.78 | 1029+68.96
522.45 | 1029+90.46
523.20 | 1029+98.02
523.84 | 1030+11.96
523.95 | 1030+33.4
524.72 | N AGE |
| | STATION | 1027+58.22 | 1027+71.16 | 1027+84.10 | 1027+97.05 | 1028+09.99 | 1028+22.04 | 1028+22.94 | 1028+35.85 | 1028+48.77 | 1028+61.68 | 1028+83.19 | 1028+91.33 | 1029+04.63 | 1029+26.15 | 1029+47.67 | 1029+69.17 | 1029+90.65 | 1029+98.12 | 1030+12.13 | 1030+33.6 | <u>\$</u> 0 |
| LEFT CURB | ELEV. | 517.37 | 517.54 | 517.75 | 517.97 | 518.22 | 518.47 | 518.49 | 518.77 | 519.06 | 519.38 | 519.95 | 520.19 | 520.56 | 521.14 | 521.80 | 522.48 | 523.23 | 523.51 | 523.98 | 524.74 | ֓֟֟֟֟֟ ֞ |
| | STATION | 1027+58.28 | 1027+71.20 | 1027+84.13 | 1027+97.05 | 1028+09.98 | 1028+22.16 | 1028+22.89 | 1028+35.81 | 1028+48.73 | 1028+61.64 | 1028+83.15 | 1028+91.26 | 1029+04.66 | 1029+26.18 | 1029+47.70 | 1029+69.20 | 1029+90.68 | 1029+98.11 | 1030+12.15 | 1030+33.6 | 4 |
| GIRDER 2 | ELEV. | 517.37 | 517.55 | 517.75 | 517.97 | 518.22 | 518.47 | 518.48 | 518.76 | 519.06 | 519.38 | 519.95 | 520.18 | 520.56 | 521.15 | 521.80 | 522.48 | 523.24 | 523.51 | 523.99 | 524.75 | \exists |
| | STATION | 1027+58.50 | 1027+71.47 | 1027+84.45 | 1027+97.42 | 1028+10.40 | 1028+22.48 | 1028+23.38 | 1028+36.33 | 1028+49.28 | 1028+62.23 | 1028+83.70 | 1028+91.96 | 1029+05.11 | 1029+26.60 | 1029+48.08 | 1029+69.55 | 1029+90.99 | 1029+98.28 | 1030+12.43 | 1030+33.8 | . |
| LEFT ROUNDING | ELEV. | 517.39 | 517.57 | 517.77 | 518.00 | 518.24 | 518.49 | 518.51 | 518.79 | 519.09 | 519.41 | 519.98 | 520.21 | 520.59 | 521.17 | 521.82 | 522.51 | 523.26 | 523.53 | 524.01 | 524.77 | 131 |
| | STATION | - | - | - | - | _ | - | - | - | - | _ | - | - | _ | _ | - | - | _ | _ | - | - | <u> </u> |
| SHOULDER BREAK | ELEV. | - | - | - | - | _ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| DICHT DOUNDING | STATION | 1027+58.64 | 1027+71.62 | 1027+84.62 | 1027+97.61 | 1028+10.61 | 1028+22.71 | 1028+23.60 | 1028+36.57 | 1028+49.54 | 1028+62.50 | 1028+83.96 | 1028+92.28 | 1029+05.35 | 1029+26.83 | 1029+48.29 | 1029+69.74 | 1029+91.16 | 1029+98.35 | 1030+12.58 | 1030+34.0 | |
| RIGHT ROUNDING | ELEV. | 517.25 | 517.44 | 517.64 | 517.87 | 518.12 | 518.37 | 518.39 | 518.67 | 518.97 | 519.29 | 519.86 | 520.10 | 520.47 | 521.05 | 521.69 | 522.39 | 523.14 | 523.40 | 523.89 | 524.65 | |
| GIRDER 3 | STATION | 1027+58.90 | 1027+71.90 | 1027+84.90 | 1027+97.90 | 1028+10.90 | 1028+23.00 | 1028+23.89 | 1028+36.88 | 1028+49.88 | 1028+62.86 | 1028+84.30 | 1028+92.70 | 1029+05.73 | 1029+27.18 | 1029+48.61 | 1029+70.03 | 1029+91.43 | 1029+98.46 | 1030+12.83 | 1030+34.2 | |
| GINDEN 3 | ELEV. | 516.97 | 517.17 | 517.40 | 517.65 | 517.91 | 518.18 | 518.20 | 518.48 | 518.78 | 519.10 | 519.67 | 519.91 | 520.24 | 520.82 | 521.46 | 522.16 | 522.92 | 523.18 | 523.66 | 524.42 | |
| LEFT SHOULDER | STATION | 1027+58.98 | 1027+71.98 | 1027+85.00 | 1027+98.03 | 1028+11.07 | 1028+23.22 | 1028+24.12 | 1028+37.15 | 1028+50.19 | 1028+63.24 | 1028+84.76 | 1028+93.33 | 1029+06.19 | 1029+27.60 | 1029+49.04 | 1029+70.49 | 1029+91.93 | 1029+98.76 | 1030+13.30 | 1030+34.6 | |
| LEIT SHOOLBER | ELEV. | 516.89 | 517.09 | 517.31 | 517.55 | 517.79 | 518.03 | 518.05 | 518.32 | 518.61 | 518.90 | 519.42 | 519.63 | 519.97 | 520.55 | 521.16 | 521.81 | 522.49 | 522.72 | 523.21 | 523.95 | |
| S1-P2-S2 | STATION | 1027+59.24 | 1027+72,29 | 1027+85.33 | 1027+98.38 | 1028+11.42 | 1028+23.55 | 1028+24.45 | 1028+37.49 | 1028+50.52 | 1028+63.55 | 1028+84.93 | 1028+93.48 | 1029+06.32 | 1029+27.72 | 1029+49.11 | 1029+70.49 | 1029+91.85 | 1029+98.70 | 1030+13.20 | 1030+34.5 | ++ |
| CONSTRUCTION JOIN | NT ELEV. | 516.60 | 516.81 | 517.03 | 517.28 | 517.55 | 517.82 | 517.84 | 518.12 | 518.42 | 518.74 | 519.32 | 519.57 | 519.89 | 520.47 | 521.11 | 521.81 | 522.56 | 522.82 | 523.30 | 524.06 | SIGNED |
| CIDDED 4 | STATION | 1027+59.52 | 1027+72.60 | 1027+85.68 | 1027+98.76 | 1028+11.84 | 1028+23.98 | 1028+24.90 | 1028+37.98 | 1028+51.04 | 1028+64.11 | 1028+85.46 | 1028+94.02 | 1029+06.81 | 1029+28.17 | 1029+49.53 | 1029+70.87 | 1029+92.19 | 1029+98.80 | 1030+13.51 | 1030+34.8 | |
| GIRDER 4 | ELEV. | 516.31 | 516.51 | 516.74 | 516.99 | 517.26 | 517.53 | 517.55 | 517.83 | 518.13 | 518.46 | 519.04 | 519.28 | 519.61 | 520.19 | 520.83 | 521.52 | 522.27 | 522.52 | 523.01 | 523.77 | |
| RAMP P BASELINE | STATION | 1027+59.81 | 1027+72.93 | 1027+86.05 | 1027+99.18 | 1028+12.33 | 1028+24.57 | 1028+25.48 | 1028+38.61 | 1028+51.76 | 1028+64.92 | 1028+86.33 | 1028+95.27 | 1029+07.66 | 1029+28.97 | 1029+50.30 | 1029+71.64 | 1029+92.97 | 1029+99.27 | 1030+14.23 | 1030+35.4 | <u> </u> |
| NAMI I DASELINE | ELEV. | 516.00 | 516.21 | 516.43 | 516.67 | 516.92 | 517.16 | 517.18 | 517.45 | 517.74 | 518.04 | 518.56 | 518.78 | 519.10 | 519.68 | 520.30 | 520.95 | 521.63 | 521.83 | 522.34 | 523.08 | |
| GIRDER 5 | STATION | 1027+60.16 | 1027+73.32 | 1027+86.47 | 1027+99.63 | 1028+12.78 | 1028+25.09 | 1028+25.93 | 1028+39.08 | 1028+52.22 | 1028+65.36 | 1028+86.64 | 1028+95.61 | 1029+07.91 | 1029+29.19 | 1029+50.47 | 1029+71.73 | 1029+92.96 | 1029+99.28 | 1030+14.20 | 1030+35.4 | <u>,</u> # |
| OINDEN O | ELEV. | 515.64 | 515.85 | 516.08 | 516.33 | 516.60 | 516.88 | 516.90 | 517.18 | 517.49 | 517.82 | 518.39 | 518.65 | 518.96 | 519.55 | 520.19 | 520.88 | 521.64 | 521.87 | 522.37 | 523.13 | Ţ |
| S1-P2-S1 | STATION | 1027+60.46 | 1027+73.66 | 1027+86.85 | 1028+00.05 | 1028+13.23 | 1028+25.50 | 1028+26.42 | 1028+39.60 | 1028+52.78 | 1028+65.96 | 1028+87.19 | 1028+96.26 | 1029+08.42 | 1029+29.67 | 1029+50.90 | 1029+72.13 | 1029+93.33 | 1029+99.43 | 1030+14.53 | 1030+35.7 | ; 🕽 |
| CONSTRUCTION JOIN | ELEV. | 515.33 | 515.54 | 515.77 | 516.02 | 516.29 | 516.57 | 516.59 | 516.88 | 517.19 | 517.52 | 518.09 | 518.35 | 518.67 | 519.25 | 519.89 | 520.59 | 521.34 | 521.56 | 522.07 | 522.83 | |
| GIRDER 6 | STATION | 1027+60.80 | 1027+74.04 | 1027+87.27 | 1028+00.51 | 1028+13.74 | 1028+26.10 | 1028+26.96 | 1028+40.19 | 1028+53.41 | 1028+66.63 | 1028+87.83 | 1028+96.99 | 1029+09.02 | 1029+30.22 | 1029+51.41 | 1029+72.59 | 1029+93.74 | 1029+99.65 | 1030+14.90 | 1030+36.0 | / ½ |
| GIVDEK O | ELEV. | 514.97 | 515.19 | 515.42 | 515.67 | 515.95 | 516.23 | 516.24 | 516.53 | 516.84 | 517.18 | 517.75 | 518.02 | 518.33 | 518.91 | 519.55 | 520.25 | 521.00 | 521.22 | 521.73 | 522.48 | ⋽ |
| GIRDER 7 | STATION | 1027+61.45 | 1027+74.77 | 1027+88.08 | 1028+01.40 | 1028+14.71 | 1028+27.13 | 1028+28.01 | 1028+41.32 | 1028+54.62 | 1028+67.92 | 1028+89.03 | 1028+98.52 | 1029+10.14 | 1029+31.26 | 1029+52.37 | 1029+73.46 | 1029+94.54 | 1030+00.02 | 1030+15.61 | 1030+36.6 | <u>」</u> ~ |
| GINDLIN | ELEV. | 514.31 | 514.52 | 514.76 | 515.02 | 515.30 | 515.58 | 515.60 | 515.89 | 516.20 | 516.54 | 517.11 | 517.39 | 517.69 | 518.27 | 518.91 | 519.61 | 520.36 | 520.56 | 521.08 | 521.84 | _ _ |
| RIGHT SHOULDER | STATION | 1027+61.53 | 1027+74.86 | 1027+88.19 | 1028+01.54 | 1028+14.90 | 1028+27.34 | 1028+28.27 | 1028+41.62 | 1028+54.98 | 1028+68.36 | 1028+89.56 | 1028+99.25 | 1029+10.68 | 1029+31.77 | 1029+52.88 | 1029+74.00 | 1029+95.11 | 1030+00.32 | 1030+16.15 | 1030+37.18 | ႍ႖ၟႄႜ |
| MIGHT GHOOLBER | ELEV. | 514.23 | 514.44 | 514.67 | 514.91 | 515.17 | 515.42 | 515.44 | 515.72 | 516.01 | 516.32 | 516.84 | 517.08 | 517.38 | 517.96 | 518.58 | 519.22 | 519.90 | 520.07 | 520.60 | 521.34 | _ ≠ 7- |
| GIRDER 8 | STATION | 1027+62.11 | 1027+75.51 | 1027+88.91 | 1028+02.30 | 1028+15.69 | 1028+28.21 | 1028+29.08 | 1028+42.46 | 1028+55.85 | 1028+69.23 | 1028+90.25 | 1029+00.12 | 1029+11.28 | 1029+32.31 | 1029+53.34 | 1029+74.35 | 1029+95.33 | 1030+00.48 | 1030+16.32 | 1030+37.3 | .≯ ₹ |
| | ELEV. | 513.65 | 513.86 | 514.10 | 514.36 | 514.64 | 514.93 | 514.94 | 515.24 | 515.56 | 515.90 | 516.47 | 516.76 | 517.05 | 517.64 | 518.28 | 518.97 | 519.72 | 519.91 | 520.45 | 521.20 | _# _ |
| GIRDER 9 | STATION | 1027+62.77 | 1027+76.25 | 1027+89.73 | 1028+03.21 | 1028+16.69 | 1028+29.21 | 1028+30.15 | 1028+43.62 | 1028+57.09 | 1028+70.55 | 1028+91.49 | 1029+01.55 | 1029+12.43 | 1029+33.38 | 1029+54.32 | 1029+75.25 | 1029+96.15 | 1030+00.82 | 1030+17.05 | 1030+37.9 | _# 9 |
| | ELEV. | 512.98 | 513.20 | 513.44 | 513.70 | 513.99 | 514.27 | 514.29 | 514.59 | 514.91 | 515.26 | 515.83 | 516.13 | 516.41 | 517.00 | 517.64 | 518.33 | 519.08 | 519.25 | 519.80 | 520.56 | <u>تا</u> بير |
| RIGHT CURB | STATION | 1027+62.90 | 1027+76.42 | 1027+89.93 | 1028+03.44 | 1028+16.95 | 1028+29.51 | 1028+30.46 | 1028+43.95 | 1028+57.44 | 1028+70.92 | 1028+91.84 | 1029+01.98 | 1029+12.76 | 1029+33.68 | 1029+54.60 | 1029+75.50 | 1029+96.38 | 1030+00.93 | 1030+17.26 | 1030+38.19 | |
| | ELEV. | 512.86 | 513.07 | 513.29 | 513.55 | 513.82 | 514.09 | 514.11 | 514.41 | 514.73 | 515.08 | 515.66 | 515.95 | 516.24 | 516.82 | 517.46 | 518.15 | 518.90 | 519.07 | 519.62 | 520.38 | .# [~] |
| RIGHT EDGE | STATION | 1027+63.01 | 1027+76.53 | 1027+90.06 | 1028+03.59 | 1028+17.12 | 1028+29.69 | 1028+30.64 | 1028+44.14 | 1028+57.65 | 1028+71.14 | 1028+92.05 | 1029+02.24 | 1029+12.95 | 1029+33.86 | 1029+54.77 | 1029+75.65 | 1029+96.51 | 1030+01.00 | 1030+17.38 | 1030+38.2 | - 5 |
| | ELEV. | 512.86 | 513.07 | 513.30 | 513.55 | 513.82 | 514.10 | 514.12 | 514.42 | 514.74 | 515.08 | 515.66 | 515.96 | 516.24 | 516.83 | 517.47 | 518.16 | 518.91 | 519.07 | 519.63 | 520.38 | ၟႍႍၯ |

NOTES:

- 1. FINAL DECK ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURED.
- 2. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 72/100.
- 3. FOR DECK POURING SEQUENCE, SEE SHEET 71/100.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 72/100.

| DESIGN AGENCY PRIME 540 MITE POND DR. SUITE E ARRON. OH 44320 | |
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| Section Sect | | | 1/8 POINT | 1/4 POINT | FS4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | FS5 POINT | 7/8 POINT | € BRG. PIER 3 | 1/8 POINT | 1/4 POINT | FS6 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | 7/8 POINT | € BRG. PIER 4 |
| STITUM S | | STATION | 1030+52.87 | 1030+72.24 | 1030+73.13 | 1030+91.63 | 1031+11.02 | 1031+30.43 | 1031+49.84 | 1031+57.12 | 1031+69.28 | 1031+88.72 | 1032+02.26 | 1032+15.79 | 1032+19.07 | 1032+30.00 | 1032+42.87 | 1032+56.41 | 1032+69.96 | 1032+83.51 | 1032+97.06 |
| $ \frac{111}{111} \frac{111}{111} \frac{111}{111} \frac{111}{111}$ | LEFT EDGE | ELEV. | 525.81 | 526.58 | 526.61 | 527.29 | 527.91 | 528.54 | 529.17 | 529.39 | 529.73 | 530.27 | 530.64 | 531.02 | 531.11 | 531.41 | 531.77 | 532.14 | 532.52 | 532.88 | 533.24 |
| COURT STATE STAT | LEET CURR | STATION | 1030+52.99 | 1030+72.35 | 1030+73.06 | 1030+91.71 | 1031+11.09 | 1031+30.48 | 1031+49.88 | 1031+57.06 | 1031+69.30 | 1031+88.72 | 1032+02.28 | 1032+15.83 | 1032+19.10 | 1032+30.00 | 1032+42.97 | 1032+56.55 | 1032+70.13 | 1032+83.72 | 1032+97.32 |
| 1000000000000000000000000000000000000 | LEFT CURB | ELEV. | 525.82 | 526.58 | 526.61 | 527.29 | 527.91 | 528.54 | 529.17 | 529.39 | 529.73 | 530.27 | 530.64 | 531.02 | 531.11 | 531.41 | 531.77 | 532.15 | 532.52 | 532.89 | 533.25 |
| CHERN STATION STATIO | CIDDED 2 | STATION | 1030+53.01 | 1030+72.37 | 1030+73.16 | 1030+91.74 | 1031+11.11 | 1031+30.50 | 1031+49.89 | 1031+56.96 | 1031+69.30 | 1031+88.72 | 1032+02.27 | 1032+15.81 | 1032+19.09 | 1032+29.36 | 1032+42.91 | 1032+56.47 | 1032+70.03 | 1032+83.59 | 1032+97.15 |
| SPECIMEN | GINDER 2 | ELEV. | 525.79 | 526.56 | 526.59 | 527.25 | 527.87 | 528.50 | 529.13 | 529.36 | 529.73 | 530.27 | 530.64 | 531.02 | 531.11 | 531.40 | 531.77 | 532.14 | 532.52 | 532.88 | 533.24 |
| STATION 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 1975-198 | CIDNED 3 | STATION | 1030+53.54 | 1030+72.83 | 1030+74.19 | 1030+92.13 | 1031+11.43 | 1031+30.74 | 1031+50.05 | 1031+56.62 | 1031+69.37 | 1031+88.71 | 1032+02.30 | 1032+15.90 | 1032+19.15 | 1032+29.50 | 1032+43.09 | 1032+56.69 | 1032+70.29 | 1032+83.89 | 1032+97.49 |
| Station Stat | GINDEN 3 | ELEV. | 525.15 | 525.91 | 525.97 | 526.61 | 527.25 | 527.90 | 528.55 | 528.77 | 529.16 | 529.76 | 530.18 | 530.60 | 530.70 | 531.01 | 531.43 | 531.84 | 532.24 | 532.64 | 533.03 |
| Signature Sign | I EET SHOULDED | STATION | 1030+53.95 | 1030+73.23 | 1030+74.55 | 1030+92.47 | 1031+11.72 | 1031+30.97 | 1031+50.22 | 1031+56.59 | 1031+69.46 | 1031+88.70 | 1032+02.37 | 1032+16.01 | 1032+19.21 | 1032+30.00 | 1032+43.31 | 1032+56.97 | 1032+70.63 | 1032+84.30 | 1032+97.96 |
| ONS PRICE FOR ALL PLANTS AND THE PRICE FOR ALL PRICE FOR A | LEI I SHOOLDEN | ELEV. | 524.66 | 525.37 | 525.42 | 526.06 | 526.71 | 527.36 | 527.99 | 528.19 | 528.61 | 529.21 | 529.64 | 530.05 | 530.15 | 530.48 | 530.87 | 531.27 | 531.67 | 532.06 | 532.44 |
| CARDER 4 STATION 1030-64-08 1030-73-30 1030-74-76 1030-92-55 1031-11/6 1031-93-29 2031-65-06 1031-63-04 1032-92-34 1032-92-34 1032-93-39 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-93-76 1032-9 | SI-P2-S2 | STATION | 1030+53.84 | 1030+73.09 | 1030+74.32 | 1030+92.35 | 1031+11.62 | 1031+30.88 | 1031+50.15 | 1031+56.69 | 1031+69.42 | 1031+88.71 | 1032+02.34 | 1032+15.96 | 1032+19.18 | 1032+30.00 | 1032+43.20 | 1032+56.82 | 1032+70.44 | 1032+84.05 | 1032+97.67 |
| Section Sect | CONSTRUCTION JOINT | ELEV. | 524.79 | 525.55 | 525.60 | 526.25 | 526.91 | 527.57 | 528.23 | 528.46 | 528.86 | 529.47 | 529.90 | 530.32 | 530.42 | 530.76 | 531.17 | 531.59 | 532.01 | 532.41 | 532.81 |
| RAMP P BSELINE S24.00 S25.00 S2 | CIPNER A | STATION | 1030+54.08 | 1030+73.30 | 1030+74.76 | 1030+92.53 | 1031+11.76 | 1031+30.99 | 1031+50.22 | 1031+56.56 | 1031+69.46 | 1031+88.70 | 1032+02.34 | 1032+15.99 | 1032+19.21 | 1032+29.63 | 1032+43.27 | 1032+56.91 | 1032+70.54 | 1032+84.17 | 1032+97.81 |
| Figure F | GINDEN 4 | ELEV. | 524.50 | 525.26 | 525.32 | 525.96 | 526.62 | 527.30 | 527.97 | 528.19 | 528.61 | 529.22 | 529.66 | 530.10 | 530.20 | 530.53 | 530.96 | 531.39 | 531.81 | 532.23 | 532.64 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | RAMP P RASELINE | STATION | 1030+54.68 | 1030+73.87 | 1030+75.64 | 1030+93.01 | 1031+12.17 | 1031+31.32 | 1031+50.45 | 1031+56.27 | 1031+69.57 | 1031+88.69 | 1032+02.43 | 1032+16.14 | 1032+19.29 | 1032+30.00 | 1032+43.55 | 1032+57.26 | 1032+70.97 | 1032+84.68 | 1032+98.39 |
| $\frac{GROURS}{S_{RP},S_{S}} = \frac{1}{S_{S}} \frac{S_{S}}{S_{S}} = \frac{5}{S_{S}} \frac{S_{S}}{S_{S}} = \frac{5}{S_{$ | NAIMI I DASELINE | ELEV. | 523.78 | 524.49 | 524.56 | 525.19 | 525.87 | 526.54 | 527.20 | 527.40 | 527.85 | 528.49 | 528.94 | 529.38 | 529.48 | 529.82 | 530.25 | 530.68 | 531.10 | 531.52 | 531.92 |
| $\frac{1117}{S_1-P_2-1} S_{13} = \frac{1117}{S_1-P_2-1} S_{13} = $ | GIRDER 5 | STATION | 1030+54.62 | 1030+73.77 | 1030+75.40 | 1030+92.93 | 1031+12.09 | 1031+31.25 | 1031+50.39 | 1031+56.26 | 1031+69.54 | 1031+88.69 | 1032+02.38 | 1032+16.07 | 1032+19.27 | 1032+29.76 | 1032+43.44 | 1032+57.12 | 1032+70.79 | 1032+84.46 | 1032+98.12 |
| ONSTRUCTION JOINT ELEV. 523.56 524.32 524.39 525.01 525.72 526.42 527.31 527.34 527.36 528.42 528.88 529.34 529.45 529.60 530.25 530.70 531.55 531.59 532.02 GROER 6 51ATION 1030+55.17 1030+74.25 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+35.75 1030+74.74 1030+75.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.75 1030+74.05 1030+75.75 1030+74.75 1030+74.75 1030+75.75 1030+74.75 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 1030+75.15 10300+75.15 1030+75.15 1030+75.15 10300+75.15 10300+75.15 10300+75.15 10300+75.15 10300+75.15 10300+75.15 10300+75.15 10300+75.15 103 | OINDEN 3 | ELEV. | 523.86 | 524.62 | 524.68 | 525.31 | 526.00 | 526.70 | 527.39 | 527.61 | 528.05 | 528.69 | 529.14 | 529.60 | 529.70 | 530.05 | 530.50 | 530.94 | 531.39 | 531.82 | 532.24 |
| STATION 1030+56.28 1030+76.28 1030+76.28 1030+77.89 1030+78.80 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+32.03 1031+3 | | STATION | 1030+54.87 | 1030+74.00 | 1030+75.86 | 1030+93.12 | 1031+12.25 | 1031+31.37 | 1031+50.48 | 1031+56.24 | 1031+69.58 | 1031+88.69 | 1032+02.43 | 1032+16.14 | 1032+19.30 | 1032+30.00 | 1032+43.55 | 1032+57.25 | 1032+70.94 | 1032+84.62 | 1032+98.30 |
| CIRDER 7 STATION 1030+55.72 523.97 524.06 524.67 525.38 526.10 526.82 527.02 527.48 528.13 528.61 529.08 529.18 529.54 530.00 530.47 530.93 531.38 531.82 | CONSTRUCTION JOINT | ELEV. | 523.56 | 524.32 | 524.39 | 525.01 | 525.72 | 526.42 | 527.13 | 527.34 | 527.78 | 528.42 | 528.88 | 529.34 | 529.45 | 529.80 | 530.25 | 530.70 | 531.15 | 531.59 | 532.02 |
| ELEV. 523.22 523.97 524.06 525.88 526.00 526.82 527.02 527.48 528.13 528.61 529.08 529.18 529.58 529.60 530.00 530.47 530.93 531.38 531.82 531.00 530.47 530.93 531.38 531.82 531.00 530.47 530.93 531.38 531.82 531.00 530.47 530.93 531.38 531.82 530.00 530.47 530.93 531.38 531.82 530.00 530.47 530.93 531.38 531.82 530.00 530.47 530.93 531.38 531.82 530.00 530.47 530.93 531.38 531.32 530.00 530.47 530.93 531.38 531.32 530.00 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.00 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.47 530.93 531.30 530.93 531.30 530.93 531.30 530.93 531.30 530.93 531.30 530.93 530.00 530.47 530.93 530.00 530.47 530.93 530.00 530.47 530.93 530.00 530.47 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530.93 530 | CIDOLO 6 | STATION | 1030+55.17 | 1030+74.25 | 1030+76.45 | 1030+93.34 | 1031+12.43 | 1031+31.50 | 1031+50.56 | 1031+56.02 | 1031+69.62 | 1031+88.68 | 1032+02.42 | 1032+16.16 | 1032+19.33 | 1032+29.90 | 1032+43.63 | 1032+57.35 | 1032+71.06 | 1032+84.77 | 1032+98.47 |
| CIRDER 9 STATION 1030+56.85 522.57 523.32 523.45 524.03 524.76 525.50 526.24 526.34 526.92 527.50 526.24 526.34 526.92 527.50 528.07 528.55 528.67 529.04 529.52 530.00 530.47 530.94 531.39 | GIRDER O | ELEV. | 523.22 | 523.97 | 524.06 | 524.67 | 525.38 | 526.10 | 526.82 | 527.02 | 527.48 | 528.13 | 528.61 | 529.08 | 529.18 | 529.54 | 530.00 | 530.47 | 530.93 | 531.38 | 531.82 |
| $RIGHT\ FIDCE \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | CIDNED 7 | STATION | 1030+55.72 | 1030+74.74 | 1030+77.89 | 1030+93.75 | 1031+12.77 | 1031+31.76 | 1031+50.74 | 1031+55.84 | 1031+69.70 | 1031+88.67 | 1032+02.46 | 1032+16.25 | 1032+19.39 | 1032+30.04 | 1032+43.81 | 1032+57.58 | 1032+71.33 | 1032+85.08 | 1032+98.82 |
| | GINDER 1 | ELEV. | 522.57 | 523.32 | 523.45 | 524.03 | 524.76 | 525.50 | 526.24 | 526.43 | 526.92 | 527.59 | 528.07 | 528.55 | 528.67 | 529.04 | 529.52 | 530.00 | 530.47 | 530.94 | 531.39 |
| $ \frac{ELEV.}{522.04} \frac{522.04}{522.74} \frac{522.84}{522.84} \frac{523.44}{523.44} \frac{524.99}{524.99} \frac{524.92}{525.64} \frac{525.64}{525.81} \frac{526.34}{526.81} \frac{527.04}{527.04} \frac{527.54}{527.54} \frac{528.04}{528.04} \frac{528.15}{528.53} \frac{529.01}{529.01} \frac{529.49}{529.97} \frac{530.44}{530.89} \frac{530.89}{529.97} \frac{530.44}{520.90} \frac{530.97}{525.66} \frac{527.04}{527.90} \frac{527.54}{528.04} \frac{528.04}{528.04} \frac{528.53}{529.01} \frac{529.97}{528.54} \frac{530.99}{529.53} \frac{530.02}{530.02} \frac{530.97}{530.97} 53$ | DICUT SUOUI DED | STATION | 1030+56.18 | 1030+75.18 | 1030+77.88 | 1030+94.14 | 1031+13.09 | 1031+32.02 | 1031+50.93 | 1031+55.61 | 1031+69.79 | 1031+88.66 | 1032+02.56 | 1032+16.39 | 1032+19.46 | 1032+30.21 | 1032+44.03 | 1032+57.85 | 1032+71.65 | 1032+85.45 | 1032+99.24 |
| $ \frac{GIRDER \ 8}{GIRDER \ 9} = \underbrace{ELEV. 521.93} 522.68 522.79 523.39 524.14 524.90 525.66 525.85 526.36 527.04 527.54 528.04 528.15 528.54 529.03 529.53 530.02 530.50 530.97 \\ \hline GIRDER \ 9 = \underbrace{GIRDER \ 9}_{GIRDER \ 9} = \underbrace{FLEV. 521.28}_{STATION} 1030+56.85 1030+75.73 1030+78.80 1030+94.60 1031+33.46 1031+32.30 1031+51.10 1031+55.38 1031+69.88 1031+88.65 1032+02.60 1032+16.51 1032+30.36 1032+30.36 1032+44.22 1032+58.07 1032+71.90 1032+85.72 1032+99.52 \\ \hline ELEV. 521.28 522.03 522.15 522.75 523.53 524.31 525.09 525.26 525.80 526.49 527.01 527.52 527.64 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 528.04 $ | MIGHT SHOOLDEN | ELEV. | 522.04 | 522.74 | 522.84 | 523.44 | 524.19 | 524.92 | 525.64 | 525.81 | 526.34 | 527.04 | 527.54 | 528.04 | 528.15 | 528.53 | 529.01 | 529.49 | 529.97 | 530.44 | 530.89 |
| $ \frac{ELEV.}{GIRDER 9} = \frac{ELEV.}{S21.93} \frac{522.68}{522.79} \frac{522.79}{523.39} \frac{524.14}{524.90} \frac{524.90}{525.66} \frac{525.85}{526.36} \frac{526.36}{527.04} \frac{527.54}{527.54} \frac{528.04}{528.15} \frac{528.54}{528.54} \frac{529.03}{529.33} \frac{529.53}{529.05} \frac{530.02}{530.50} \frac{530.50}{530.50} \frac{530.97}{530.50} \\ \frac{510.30+75.73}{520.50} \frac{1030+75.73}{520.50} \frac{1030+78.80}{520.50} \frac{1030+78.80}{1030+94.60} \frac{1031+32.30}{1031+32.30} \frac{1031+51.10}{1031+55.38} \frac{1031+69.88}{1031+69.88} \frac{1031+88.65}{1032+02.60} \frac{1032+19.52}{1032+30.36} \frac{1032+44.22}{1032+58.07} \frac{1032+58.07}{1032+58.07} \frac{1032+99.52}{1032+99.52} \\ \frac{510.30+79.04}{520.50} \frac{520.55}{520.50} \frac{523.53}{524.31} \frac{525.09}{525.60} \frac{525.80}{525.80} \frac{526.49}{525.80} \frac{527.04}{527.01} \frac{527.52}{527.64} \frac{528.04}{528.04} \frac{528.55}{528.04} \frac{528.93}{528.55} \frac{529.06}{529.66} \frac{530.50}{530.66} \frac{530.59}{530.66} \\ \frac{530.55}{530.66} \frac{530.97}{530.55} \frac{524.31}{520.90} \frac{525.26}{525.80} \frac{525.80}{525.80} \frac{526.49}{527.01} \frac{527.52}{527.50} \frac{527.64}{528.04} \frac{528.93}{528.90} \frac{529.66}{529.56} \frac{530.06}{530.55} \frac{530.06}{530.55} \\ \frac{530.55}{529.06} \frac{530.59}{530.66} \frac{530.59}{530.66} \frac{527.90}{529.56} \frac{528.93}{529.45} \frac{529.95}{529.95} \frac{530.44}{520.95} \frac{529.95}{530.44} \\ \frac{528.93}{529.95} \frac{529.95}{530.44} \frac{528.93}{529.95} \frac{529.95}{530.44} \frac{528.93}{529.95} \frac{529.95}{530.44} \frac{528.93}{529.95} \frac{529.95}{530.44} \\ \frac{528.93}{529.95} \frac{529.95}{530.44} \frac{528.93}{529.95} \frac{529.95}{5$ | GIRDER 8 | | 1030+56.28 | 1030+75.22 | 1030+77.94 | 1030+94.17 | 1031+13.11 | 1031+32.03 | 1031+50.91 | 1031+55.72 | 1031+69.79 | 1031+88.66 | 1032+02.50 | 1032+16.34 | 1032+19.45 | | 1032+44.00 | 1032+57.81 | 1032+71.61 | 1032+85.39 | 1032+99.17 |
| | OINDEN O | ELEV. | 521.93 | 522.68 | 522.79 | 523.39 | 524.14 | | 525.66 | <i>525.85</i> | 526.36 | 527.04 | 527.54 | 528.04 | 528.15 | 528.54 | 529.03 | 529.53 | 530.02 | 530.50 | 530.97 |
| $\frac{ELEV.}{RIGHT\ CURB} = \frac{ELEV.}{S21.28} = \frac{522.03}{522.05} = \frac{522.15}{522.15} = \frac{522.75}{523.53} = \frac{523.53}{524.31} = \frac{525.09}{525.09} = \frac{525.26}{525.80} = \frac{527.64}{527.61} = \frac{527.64}{527.52} = \frac{528.04}{528.04} = \frac{528.04}{528.04} = \frac{528.09}{528.05} = \frac{529.06}{529.06} = \frac{529.56}{529.06} = \frac{530.06}{529.56} = \frac{530.06}{530.06} = \frac{530.06}{530.05} = \frac{530.06}{530.06} = \frac{530.06}{530.06} = \frac{530.06}{530.06} = \frac{530.06}{530.06} = \frac{529.06}{529.06} = \frac{529.06}{$ | CIRDER 9 | STATION | 1030+56.85 | 1030+75.73 | 1030+78.80 | 1030+94.60 | 1031+13.46 | 1031+32.30 | 1031+51.10 | 1031+55.38 | 1031+69.88 | 1031+88.65 | 1032+02.60 | 1032+16.49 | 1032+19.52 | 1032+30.36 | 1032+44.22 | 1032+58.07 | 1032+71.90 | 1032+85.72 | 1032+99.52 |
| RIGHT CURB ELEV. 521.10 521.84 521.97 522.56 523.35 524.14 524.92 525.10 525.64 526.34 526.86 527.38 527.50 527.90 528.42 528.93 529.45 529.95 530.44 RIGHT FORF STATION 1030+57.11 1030+75.95 1030+79.19 1030+94.79 1031+13.62 1031+32.42 1031+51.18 1031+55.27 1031+69.92 1031+88.64 1032+02.63 1032+19.55 1032+30.42 1032+44.30 1032+58.16 1032+72.01 1032+85.85 1032+99.67 | OINDEN 3 | ELEV. | 521.28 | | 522.15 | 522.75 | | | 525.09 | | | 526.49 | 527.01 | | | 528.04 | 528.55 | 529.06 | | 530.06 | 530.55 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | RIGHT CURR | | 4 | 1030+75.87 | - | | | 1031+32.37 | 1031+51.15 | | 1031+69.90 | | 1032+02.62 | | | | 1032+44.27 | | 1032+71.97 | 1032+85.80 | 1032+99.61 |
| RIGHT FDGF | MIGHT COMB | ELEV. | 521.10 | 521.84 | | 522.56 | 523.35 | | 524.92 | 525.10 | | 526.34 | 526.86 | 527.38 | | 527.90 | 528.42 | 528.93 | | 529.95 | |
| ELEV. 521.10 521.85 521.97 522.57 523.35 524.14 524.92 525.09 525.64 526.34 526.86 527.38 527.50 527.90 528.42 528.93 529.45 529.95 530.45 | RIGHT FDGF | | 1030+57.11 | | | | | 1031+32.42 | 1031+51.18 | | | 1031+88.64 | 1032+02.63 | | | | | | 1032+72.01 | | |
| | Mon Ebol | ELEV. | 521.10 | 521.85 | 521.97 | 522.57 | 523.35 | 524.14 | 524.92 | 525.09 | 525.64 | 526.34 | 526.86 | 527.38 | 527.50 | 527.90 | 528.42 | 528.93 | 529.45 | 529.95 | 530.45 |

FINAL DECK SURFACE ELEVATIONS - UNIT 1

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- FINAL DECK ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURED.
- 2. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 72/100.
- 3. FOR DECK POURING SEQUENCE, SEE SHEET 71/100.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 72/100.

NOTES:



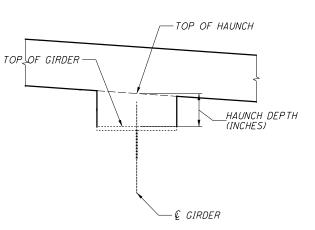
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| | | | | | | | | ES | STIMATED H. | AUNCH DEPTH | TABLE (IN) | | | | | 1 | | | | |
|----------|------------------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-------------|-------------|------------------|-----------|-----------|------|-----------|-----------|-----------|-----------|-----------|------------------|
| | © BRG. PIER
2 | 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
3 | 1/8 POINT | 1/4 POINT | FS6 | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | 7/8 POINT | € BRG. PIER
4 |
| GIRDER 2 | 3.30 | 3.96 | 5.46 | 6.00 | 8.53 | 8.32 | 8.16 | 8.01 | 6.96 | 6.33 | 5.63 | 5.51 | 5.39 | 4.36 | 7.01 | 6.86 | 6.71 | 6.56 | 6.31 | 5.96 |
| GIRDER 3 | 4.23 | 4.89 | 6.38 | 6.45 | 9.31 | 9.17 | 9.08 | 9.01 | 7.96 | 7.45 | 7.41 | 7.47 | 7.50 | 6.49 | 9.26 | 9.24 | 9.17 | 9.08 | 8.88 | 8.55 |
| GIRDER 4 | 4.91 | 5.68 | 7.26 | 7 . 35 | 10.07 | 10.10 | 10.18 | 10.26 | 9.29 | 8.51 | 8.12 | 8.12 | 8.10 | 7.10 | 9.82 | 9.73 | 9.62 | 9.48 | 9.24 | 8.86 |
| GIRDER 5 | 6.04 | 7.07 | 8.90 | 9.01 | 11.49 | 11.49 | 11.52 | 11.59 | 10.59 | 9.72 | 9.16 | 9.06 | 8.92 | 7.90 | 10.53 | 10.32 | 10.10 | 9.85 | 9.49 | 8.97 |
| GIRDER 6 | 7.56 | 8.63 | 11.23 | 11.40 | 12.68 | 12.75 | 12.86 | 12.98 | 11.99 | 10.76 | 9.72 | 9.57 | 9.41 | 8.35 | 10.71 | 10.44 | 10.20 | 9.93 | 9.53 | 8.99 |
| GIRDER 7 | 6.51 | 7.54 | 10.08 | 10.32 | 11.79 | 12.22 | 12.68 | 13.20 | 12.32 | 11.27 | 10.48 | 10.27 | 10.01 | 8.97 | 11.28 | 10.96 | 10.67 | 10.31 | 9.89 | 9.29 |
| GIRDER 8 | 5.25 | 6.27 | 8.81 | 9.00 | 10.53 | 11.21 | 11.92 | 12.63 | 11.80 | 10.91 | 10.40 | 10.10 | 9.79 | 8.72 | 10.96 | 10.60 | 10.24 | 9.84 | 9.33 | 8.71 |
| GIRDER 9 | 4.25 | 5.46 | 8.18 | 8.43 | 9.96 | 10.80 | 11.65 | 12.49 | 11.67 | 10.87 | 10.50 | 10.13 | 9.74 | 8.67 | 10.86 | 10.44 | 10.01 | 9.56 | 9.00 | 8.32 |

ESTIMATED HAUNCH DEPTH TABLE (IN)

NOTES:

- FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TR<u>ANSVE</u>RSE SECTION AND PLAN VIEW, SEE SHEET <u>72/100</u>.
- 2. FOR ADDITIONAL NOTES, SEE SHEET 72/100.





€ BRG. PIER

3.30

4.23

4.91

6.04

7.56

6.51

5.25

4.25

7/8 POINT

3.22

4.14

4.70

5.53

6.99

5.98

4.71

3.49

FS3

4.04

4.97

5.44

6.08

6.99

6.02

4.73

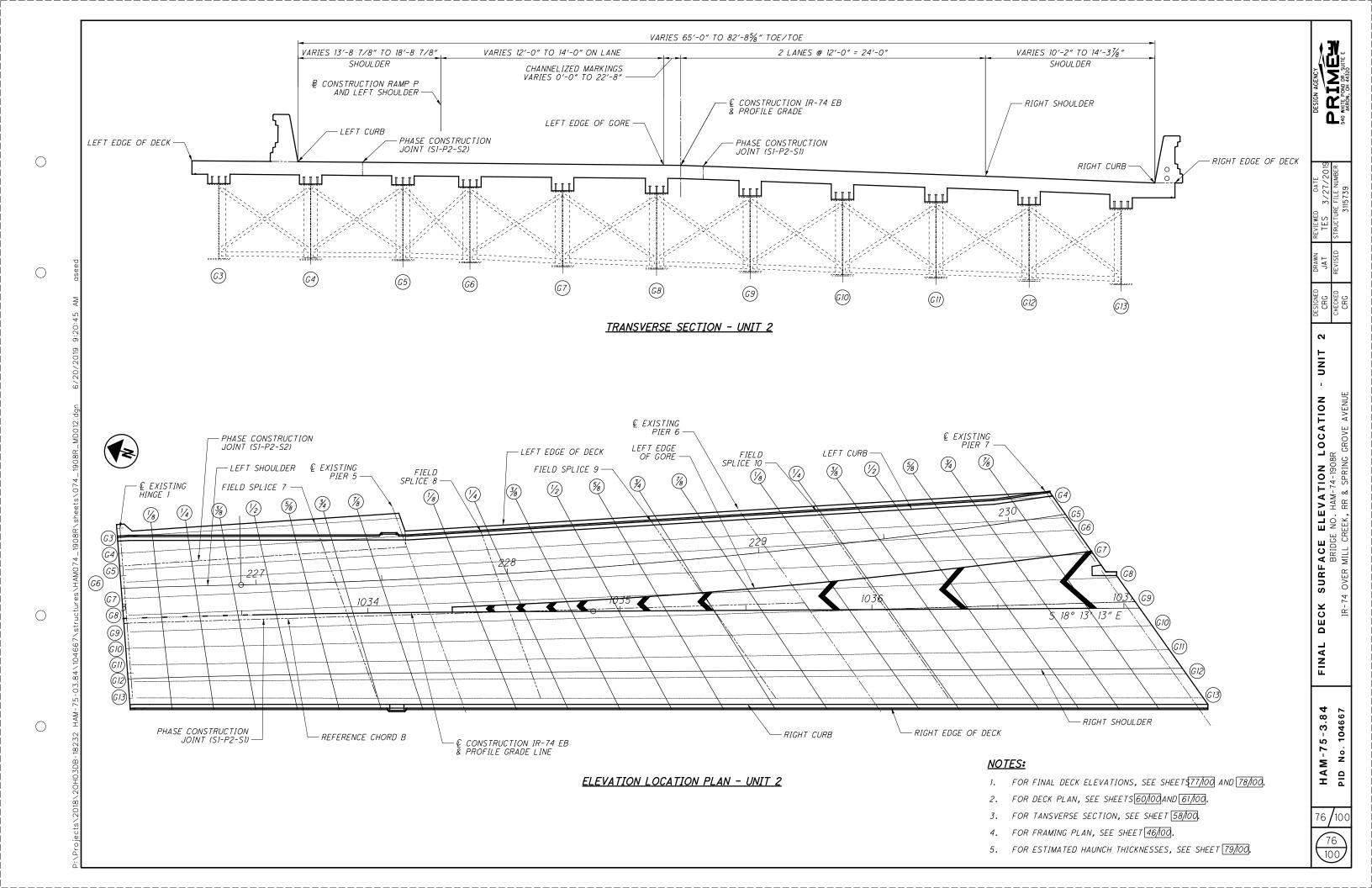
3.34

HAUNCH DEPTH - UNIT BRIDGE NO. HAM-74-1908R VER MILL CREEK, RR & SPRING GRO

HAM-75-3.84 104667 ° N PID







| 77/100 | |
|--------|--|
| 77 | |
| 100 | |

| | | 1 | 1 | I | Г | FINAL DE | | ELEVATIONS | o - UNII Z | 1 | 1 | | I | Г | T | |
|------------------------|---------|------------|------------|------------|-----------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|------------|
| | | HINGE 1 | 1/8 POINT | 1/4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | FS7 | 3/4 | 7/8 POINT | € BRG. PIER 5 | 1/8 POINT | FS8 | 1/4 POINT | 3/8 POINT | 1/2 POINT |
| LEFT EDGE | STATION | 1033+02.83 | 1033+16.45 | 1033+29.96 | 1033+43.47 | 227+01.27 | 227+15.04 | 227+23.59 | 227+28.81 | 227+42.58 | 227+56.36 | 227+75.52 | 227+89.82 | 227+92.42 | 228+09.36 | 228+26.30 |
| LET T EDOL | ELEV. | 533.39 | 533.70 | 534.00 | 534.29 | 534.58 | 534.85 | 535.03 | 535.13 | 535.39 | 535.64 | 536.00 | 536.25 | 536.29 | 536.57 | 536.83 |
| GIRDER 3 | STATION | 1033+03.03 | 1033+16.60 | 1033+30.18 | 1033+43.76 | 227+01.64 | 227+15.47 | 227+24.23 | 227+29.30 | 227+43.13 | 227+56.97 | - | - | - | - | - |
| OMDEN 3 | ELEV. | 533.39 | 533.71 | 534.01 | 534.30 | 534.58 | 534.86 | 535.04 | 535.14 | 535.40 | 535.65 | ı | - | - | - | - |
| GIRDER 4 | STATION | 1033+03.28 | 1033+17.13 | 1033+30.99 | 1033+44.84 | 227+02.98 | 227+17.02 | 227+26.47 | 227+31.07 | 227+45.12 | 227+59.17 | 227+76.18 | 227+90.40 | 227+93.19 | 228+10.20 | 228+27.2 |
| GINDEN 4 | ELEV. | 533.18 | 533.54 | 533.89 | 534.22 | 534.54 | 534.86 | 535.07 | 535.16 | 535.44 | 535.69 | 536.01 | 536.26 | 536.31 | 536.58 | 536.84 |
| LEFT CURB | STATION | 1033+05.05 | 1033+18.31 | 1033+32.82 | 1033+47.35 | 227+06.10 | 227+20.69 | 227+31.71 | 227+35.27 | 227+49.84 | 227+64.37 | 227+82.12 | 227+95.46 | 227+99.72 | 228+13.68 | 228+34.85 |
| LEFT CORD | ELEV. | 532.63 | 532.98 | 533.36 | 533.72 | 534.07 | 534.41 | 534.67 | 534.75 | 535.07 | 535.38 | 535.74 | 536.01 | 536.09 | 536.34 | 536.71 |
| SI-P2-S2 CONSTRUCTION | STATION | 1033+04.64 | 1033+17.52 | 1033+31.56 | 1033+45.64 | 1033+59.60 | 1033+73.64 | 1033+83.41 | 1033+87.69 | 1034+01.69 | 1034+15.44 | - | - | - | - | - |
| JOINT | ELEV. | 533.01 | 533.35 | 533.71 | 534.06 | 534.17 | 534.40 | 534.73 | 534.95 | 535.35 | 535.64 | - | - | - | - | - |
| CIDDED E | STATION | 1033+03.54 | 1033+17.67 | 1033+31.80 | 1033+45.93 | 227+04.32 | 227+18.57 | 227+28.71 | 227+32.83 | 227+47.10 | 227+61.36 | 227+78.68 | 227+92.57 | 227+96.00 | 228+13.32 | 228+30.6 |
| GIRDER 5 | ELEV. | 532.90 | 533.28 | 533.64 | 533.99 | 534.33 | 534.66 | 534.89 | 534.98 | 535.29 | 535.58 | 535.92 | 536.17 | 536.23 | 536.52 | 536.79 |
| 010050 | STATION | 1033+03.74 | 1033+18.06 | 1033+32.38 | 1033+46.70 | 227+05.25 | 227+19.65 | 227+30.29 | 227+34.06 | 227+48.47 | 227+62.88 | 227+80.38 | 227+94.03 | 227+97.87 | 228+15.36 | 228+32.85 |
| GIRDER 6 | ELEV. | 532.69 | 533.08 | 533.46 | 533.83 | 534.18 | 534.52 | 534.77 | 534.86 | 535.18 | 535.48 | 535.83 | 536.09 | 536.16 | 536.46 | 536.75 |
| RAMP P BASELINE & LEFT | STATION | 1033+05.05 | 1033+18.31 | 1033+32.82 | 1033+47.35 | 227+06.10 | 227+20.69 | 227+31.71 | 227+35.27 | 227+49.84 | 227+64.37 | 227+82.12 | 227+95.46 | 227+99.72 | 228+17.32 | 228+34.85 |
| SHOULDER | ELEV. | 532.63 | 532.98 | 533.36 | 533.72 | 534.07 | 534.41 | 534.67 | 534.75 | 535.07 | 535.38 | 535.74 | 536.01 | 536.09 | 536.41 | 536.71 |
| | STATION | 1033+04.00 | 1033+18.61 | 1033+33.23 | 1033+47.84 | 227+06.64 | 227+21.27 | 227+32.60 | 227+35.90 | 227+50.54 | 227+65.17 | 227+83.03 | 227+96.32 | 228+00.88 | 228+18.72 | 228+36.56 |
| GIRDER 7 | ELEV. | 532.41 | 532.82 | 533.21 | 533.60 | 533.97 | 534.33 | 534.60 | 534.68 | 535.01 | 535.33 | 535.70 | 535.96 | 536.05 | 536.37 | 536.67 |
| | STATION | 1033+04.26 | 1033+19.16 | 1033+34.07 | 1033+48.97 | 227+07.99 | 227+22.84 | 227+34.90 | 227+37.69 | 227+52.55 | 227+67.40 | 227+85.61 | 227+98.59 | 228+03.82 | 228+22.02 | 228+40.2 |
| GIRDER 8 | ELEV. | 532.14 | 532.56 | 532.97 | 533.37 | 533.76 | 534.13 | 534.43 | 534.50 | 534.85 | 535.18 | 535.57 | 535.84 | 535.94 | 536.29 | 536.62 |
| | STATION | - | - | _ | 1033+50.00 | 227+08.43 | 227+23.36 | 227+35.50 | 227+38.27 | 227+53.15 | 227+67.99 | 227+86.24 | 227+99.03 | 228+04.37 | 228+22.52 | 228+40.58 |
| LEFT EDGE OF GORE | ELEV. | - | - | - | 533.34 | 533.71 | 534.09 | 534.39 | 534.45 | 534.81 | 535.15 | 535.55 | 535.82 | 535.92 | 536.28 | 536.61 |
| € CONSTRUCTION IR-74 | STATION | 1033+05.51 | 1033+19.30 | 1033+34.30 | 1033+49.32 | 1033+64.35 | 1033+79.39 | 1033+91.69 | 1033+94.47 | 1034+09.56 | 1034+24.69 | 1034+43.36 | 1034+56.26 | 1034+61.99 | 1034+80.76 | 1034+99.5 |
| EB & PROFILE GRADE | ELEV. | 532.13 | 532.52 | 532.93 | 533.32 | 533.71 | 534.08 | 534.38 | 534.44 | 534.79 | 535.12 | 535.52 | 535.78 | 535.89 | 536.25 | 536.58 |
| SI-P2-SI CONSTRUCTION | STATION | 1033+05.58 | 1033+19.46 | 1033+34.54 | 1033+49.62 | 1033+64.69 | 1033+79.76 | 1033+92.14 | 1033+94.82 | 1034+09.87 | 1034+24.93 | 1034+43.48 | 1034+56.26 | 1034+61.93 | 1034+80.48 | 1034+99.0 |
| JOINT | ELEV. | 532.05 | 532.44 | 532.86 | 533.26 | 533.66 | 534.04 | 534.35 | 534.41 | 534.77 | 535.11 | 535.51 | 535.78 | 535.89 | 536.25 | 536.59 |
| | STATION | 1033+04.52 | 1033+19.72 | 1033+34.93 | 1033+50.13 | 1033+65.33 | 1033+80.52 | 1033+93.35 | 1033+95.71 | 1034+10.90 | 1034+26.09 | 1034+44.78 | 1034+57.48 | 1034+63.48 | 1034+82.17 | 1035+00.8 |
| GIRDER 9 | ELEV. | 531.86 | 532.30 | 532.73 | 533.15 | 533.55 | 533.95 | 534.27 | 534.33 | 534.69 | 535.05 | 535.46 | 535.73 | 535.85 | 536.22 | 536.56 |
| | STATION | 1033+04.78 | 1033+20.29 | 1033+35.79 | 1033+51.29 | 1033+66.78 | 1033+82.27 | 1033+95.84 | 1033+97.75 | 1034+13.23 | 1034+28.70 | 1034+47.83 | 1034+60.20 | 1034+66.94 | 1034+86.05 | 1035+05.16 |
| GIRDER 10 | ELEV. | 531.58 | 532.04 | 532.49 | 532.93 | 533.35 | 533.76 | 534.11 | 534.16 | 534.54 | 534.91 | 535.35 | 535.63 | 535.77 | 536.16 | 536.51 |
| | STATION | 1033+05.04 | 1033+20.85 | 1033+36.66 | 1033+52.46 | 1033+68.25 | 1033+84.03 | 1033+98.34 | 1033+99.80 | 1034+15.57 | 1034+31.33 | 1034+50.88 | 1034+62.91 | 1034+70.41 | 1034+89.94 | 1035+09.4 |
| GIRDER 11 | ELEV. | 531.31 | 531.79 | 532.25 | 532.71 | 533.15 | 533.58 | 533.96 | 534.00 | 534.40 | 534.79 | 535.25 | 535.53 | 535.70 | 536.11 | 536.45 |
| | STATION | 1033+05.26 | 1033+21.29 | 1033+37.30 | 1033+53.28 | 1033+69.25 | 1033+85.20 | 1033+99.95 | 1034+01.15 | 1034+17.09 | 1034+33.03 | 1034+52.89 | 1034+64.69 | 1034+72.71 | 1034+92.56 | 1035+12.4 |
| RIGHT SHOULDER | ELEV. | 531.08 | 531.59 | 532.08 | 532.56 | 533.02 | 533.47 | 533.87 | 533.90 | 534.32 | 534.72 | 535.20 | 535.47 | 535.65 | 536.07 | 536.41 |
| | STATION | 1033+05.31 | 1033+21.42 | 1033+37.53 | 1033+53.62 | 1033+69.71 | 1033+85.79 | 1034+00.85 | 1034+01.85 | 1034+17.91 | 1034+33.95 | 1034+53.93 | 1034+65.62 | 1034+73.89 | 1034+93.83 | 1035+13.7 |
| GIRDER 12 | ELEV. | 531.03 | 531.53 | 532.02 | 532.49 | 532.95 | 533.41 | 533.83 | 533.85 | 534.29 | 534.71 | 535.19 | 535.46 | 535.64 | 536.06 | 536.40 |
| | STATION | 1033+05.57 | 1033+21.99 | 1033+38.40 | 1033+54.80 | 1033+71.18 | 1033+87.56 | 1034+03.37 | 1034+03.91 | 1034+20.26 | 1034+36.58 | 1034+56.99 | 1034+68.34 | 1034+77.37 | 1034+97.73 | 1035+18.0 |
| GIRDER 13 | ELEV. | 530.76 | 531.27 | 531.78 | 532.28 | 532.76 | 533.24 | 533.72 | 533.74 | 534.23 | 534.70 | 535.17 | 535.41 | 535.60 | 536.00 | 536.34 |
| | STATION | 1033+06.83 | 1033+22.19 | 1033+38.70 | 1033+55.20 | 1033+71.68 | 1033+88.14 | 1034+04.20 | 1034+04.59 | 1034+21.02 | 1034+37.43 | 1034+57.96 | 1034+69.20 | 1034+78.47 | 1034+98.95 | 1035+19.4 |
| RIGHT CURB | ELEV. | 530.70 | 531.19 | 531.70 | 532.21 | 532.70 | 533.19 | 533.70 | 533.71 | 534.22 | 534.70 | 535.16 | 535.40 | 535.59 | 535.98 | 536.32 |
| | | | | | | | | | | | | 1034+58.56 | 1034+69.73 | | | |
| RIGHT EDGE | STATION | 1033+06.13 | 1033+22.32 | 1033+38.89 | 1033+55.45 | 1033+71.99 | 1033+88.51 | 1034+04.72 | 1034+05.01 | 1034+21.49 | 1034+37.96 | | | 1034+79.14 | 1034+99.68 | 1035+20.2 |
| | ELEV. | 530.67 | 531.19 | 531.71 | 532 . 21 | 532.71 | 533.20 | 533.71 | 533.72 | 534.23 | 534.71 | 535.17 | 535.41 | 535.60 | 535.99 | 536.33 |

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NOTES:

- FINAL DECK ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURED.
- 2. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 76/100.
- 3. FOR DECK POURING SEQUENCE, SEE SHEET 71/100.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 76/100.

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| | | | | | | | FINAL D | ECK SURFACE L | ELEVATIONS - | UNIT 2 | | | | | |
|------------------------|---------|------------|------------|------------|------------|---------------|------------|---------------|--------------|------------|------------|------------|------------|------------|------------|
| | | 5/8 POINT | 3/4 POINT | FS9 | 7/8 POINT | € BRG. PIER 6 | 1/8 POINT | FS10 | 1/4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | 7/8 POINT | © PIER 7 |
| | STATION | 228+43.24 | 228+60.18 | 228+57.33 | 228+77.11 | 228+94.03 | 229+09.34 | 229+23.54 | 229+24.65 | 229+39.94 | 229+55.23 | 229+70.50 | 229+85.76 | 230+01.01 | 230+16.25 |
| LEFT EDGE | ELEV. | 537.04 | 537.22 | 537.19 | 537.40 | 537.65 | 537.88 | 538.08 | 538.09 | 538.29 | 538.51 | 538.70 | 538.87 | 539.03 | 539.20 |
| | STATION | - | - | _ | - | - | - | - | - | - | - | _ | _ | _ | _ |
| GIRDER 3 | ELEV. | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | STATION | 228+44.21 | 228+61.21 | 228+58.51 | 228+78.21 | 228+95.20 | 229+10.50 | 229+24.66 | 229+25.79 | 229+41.07 | 229+56.34 | 229+71.60 | 229+86.85 | 230+02.08 | 230+17.30 |
| GIRDER 4 | ELEV. | 537.05 | 537.23 | 537.20 | 537.42 | 537.67 | 537.90 | 538.09 | 538.11 | 538.31 | 538.53 | 538.72 | 538.88 | 539.04 | 539.22 |
| | STATION | 228+52.27 | 228+69.59 | 228+68.15 | 228+86.80 | 229+03.89 | 229+18.72 | 229+32.41 | 229+33.50 | 229+48.23 | 229+62.92 | 229+77.57 | 229+92.17 | 230+06.73 | 230+21.25 |
| LEFT CURB | ELEV. | 536.97 | 537.21 | 537.19 | 537.51 | 537.83 | 538.08 | 538.30 | 538.32 | 538.53 | 538.71 | 538.88 | 539.02 | 539.17 | 539.34 |
| SI-P2-S2 CONSTRUCTION | STATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JOINT | ELEV. | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | STATION | 228+47.94 | 228+63.12 | 228+65.25 | 228+82.54 | 228+99.83 | 229+15.13 | 229+29.27 | 229+30.41 | 229+45.69 | 229+60.96 | 229+76.21 | 229+91.45 | 230+06.68 | 230+21.89 |
| GIRDER 5 | ELEV. | 537.02 | 537.20 | 537.22 | 537.46 | 537.74 | 537.99 | 538.20 | 538.22 | 538.44 | 538.65 | 538.84 | 539.00 | 539.17 | 539.39 |
| | STATION | 228+50.33 | 228+67.81 | 228+66.08 | 228+85.28 | 229+02.74 | 229+18.00 | 229+32.10 | 229+33.26 | 229+48.51 | 229+63.74 | 229+78.96 | 229+94.17 | 230+09.37 | 230+24.55 |
| GIRDER 6 | ELEV. | 536.99 | 537.21 | 537.19 | 537.49 | 537.80 | 538.06 | 538.29 | 538.31 | 538.54 | 538.75 | 538.95 | 539.13 | 539.34 | 539.60 |
| RAMP P BASELINE & LEFT | STATION | 228+52.27 | 228+69.59 | 228+68.15 | 228+86.80 | 229+03.89 | 229+18.72 | 229+32.41 | 229+33.50 | 229+48.23 | 229+62.92 | 229+77.57 | 229+92.17 | 230+06.73 | 230+21.25 |
| SHOULDER | ELEV. | 536.97 | 537.21 | 537.19 | 537.51 | 537.83 | 538.08 | 538.30 | 538.32 | 538.53 | 538.71 | 538.88 | 539.02 | 539.17 | 539.34 |
| | STATION | 228+54.40 | 228+72.22 | 228+71.10 | 228+90.04 | 229+07.84 | 229+23.12 | 229+37.21 | 229+38.40 | 229+53.66 | 229+68.92 | 229+84.15 | 229+99.37 | 230+14.58 | 1036+86.52 |
| GIRDER 7 | ELEV. | 536.95 | 537.22 | 537.20 | 537.56 | 537.92 | 538.21 | 538.46 | 538.48 | 538.74 | 538.99 | 539.22 | 539.45 | 539.72 | 539.93 |
| | STATION | 228+58.40 | 1035+33.13 | 1035+32.67 | 1035+51.40 | 1035+69.68 | 1035+85.11 | 1035+99.37 | 1036+00.55 | 1036+15.98 | 1036+31.42 | 1036+46.85 | 1036+62.28 | 1036+77.72 | 1036+93.15 |
| GIRDER 8 | ELEV. | 536.93 | 537.25 | 537.24 | 537.62 | 537.97 | 538.23 | 538.45 | 538.46 | 538.67 | 538.85 | 539.02 | 539.17 | 539.33 | 539.45 |
| | STATION | 228+58.55 | 228+76.41 | 228+75.94 | 228+94.16 | 229+11.77 | 229+26.62 | 229+40.31 | 229+41.43 | 229+56.18 | 229+70.89 | 229+85.55 | 230+00.16 | 230+14.73 | 230+29.25 |
| LEFT EDGE OF GORE | ELEV. | 536.93 | 537.25 | 537.24 | 537.64 | 538.02 | 538.32 | 538.58 | 538.60 | 538.85 | 539.09 | 539.30 | 539.61 | 539.73 | 539.98 |
| © CONSTRUCTION IR-74 | STATION | 1035+18.44 | 1035+36.94 | 1035+37.42 | 1035+56.28 | 1035+75.25 | 1035+91.04 | 1036+05.66 | 1036+06.84 | 1036+22.63 | 1036+38.42 | 1036+54.22 | 1036+70.01 | 1036+85.81 | 1037+01.60 |
| EB & PROFILE GRADE | ELEV. | 536.90 | 537.19 | 537.19 | 537.47 | 537.72 | 537.92 | 538.09 | 538.10 | 538.27 | 538.42 | 538.56 | 538.69 | 538.80 | 538.89 |
| SI-P2-SI CONSTRUCTION | STATION | 1035+17.58 | 1035+37.42 | 1035+36.06 | 1035+54.70 | 1035+73.28 | 1035+91.19 | 1036+05.56 | 1036+06.72 | 1036+22.25 | 1036+37.78 | 1036+53.31 | 1036+68.84 | 1036+84.37 | 1036+99.89 |
| JOINT | ELEV. | 536.91 | 537.19 | 537.21 | 537.52 | 537.81 | 537.92 | 538.10 | 538.11 | 538.29 | 538.46 | 538.62 | 538.76 | 538.89 | 539.00 |
| | STATION | 1035+19.55 | 1035+38.24 | 1035+38.43 | 1035+56.93 | 1035+75.62 | 1035+91.14 | 1036+05.51 | 1036+06.67 | 1036+22.19 | 1036+37.72 | 1036+53.24 | 1036+68.76 | 1036+84.29 | 1036+99.81 |
| GIRDER 9 | ELEV. | 536.88 | 537.18 | 537.19 | 537.46 | 537.72 | 537.92 | 538.10 | 538.11 | 538.30 | 538.47 | 538.62 | 538.77 | 538.90 | 539.00 |
| | STATION | 1035+24.26 | 1035+43.36 | 1035+44.22 | 1035+62.47 | 1035+81.57 | 1035+97.18 | 1036+11.66 | 1036+12.80 | 1036+28.41 | 1036+44.02 | 1036+59.63 | 1036+75.25 | 1036+90.86 | 1037+06.47 |
| GIRDER 10 | ELEV. | 536.83 | 537.13 | 537.14 | 537.40 | 537.66 | 537.85 | 538.02 | 538.03 | 538.20 | 538.35 | 538.48 | 538.60 | 538.71 | 538.81 |
| | STATION | 1035+28.98 | 1035+48.50 | 1035+50.02 | 1035+68.02 | 1035+87.54 | 1036+03.24 | 1036+17.82 | 1036+18.93 | 1036+34.63 | 1036+50.33 | 1036+66.03 | 1036+81.73 | 1036+97.43 | 1037+13.13 |
| GIRDER 11 | ELEV. | 536.77 | 537.07 | 537.09 | 537.34 | 537.59 | 537.78 | 537.94 | 537.95 | 538.11 | 538.26 | 538.38 | 538.50 | 538.60 | 538.69 |
| | STATION | 1035+32.26 | 1035+54.25 | 1035+52.00 | 1035+71.99 | 1035+91.87 | 1036+07.68 | 1036+22.38 | 1036+23.48 | 1036+39.29 | 1036+55.10 | 1036+70.90 | 1036+86.71 | 1037+02.52 | 1037+18.32 |
| RIGHT SHOULDER | ELEV. | 536.73 | 537.06 | 537.02 | 537.30 | 537.55 | 537.73 | 537.88 | 537.90 | 538.05 | 538.19 | 538.31 | 538.42 | 538.51 | 538.59 |
| | STATION | 1035+33.71 | 1035+53.64 | 1035+55.84 | 1035+73.58 | 1035+93.51 | 1036+09.30 | 1036+23.99 | 1036+25.08 | 1036+40.87 | 1036+56.65 | 1036+72.44 | 1036+88.22 | 1037+04.00 | 1037+19.79 |
| GIRDER 12 | ELEV. | 536.71 | 537.01 | 537.04 | 537.28 | 537.53 | 537.71 | 537.86 | 537.87 | 538.03 | 538.16 | 538.28 | 538.39 | 538.49 | 538.56 |
| | STATION | 1035+38.44 | 1035+58.79 | 1035+61.68 | 1035+79.15 | 1035+99.50 | 1036+15.37 | 1036+30.16 | 1036+31.24 | 1036+47.11 | 1036+62.98 | 1036+78.84 | 1036+94.71 | 1037+10.58 | 1037+26.45 |
| GIRDER 13 | ELEV. | 536.65 | 536.95 | 536.99 | 537.22 | 537.46 | 537.63 | 537.78 | 537.79 | 537.94 | 538.07 | 538.18 | 538.28 | 538.37 | 538.44 |
| | STATION | 1035+39.88 | 1035+60.37 | 1035+63.41 | 1035+80.81 | 1036+01.27 | 1036+17.15 | 1036+31.95 | 1036+33.02 | 1036+48.90 | 1036+64.78 | 1036+80.65 | 1036+89.39 | 1037+12.41 | 1037+28.28 |
| RIGHT CURB | ELEV. | 536.64 | 536.93 | 536.97 | 537.20 | 537.44 | 537.61 | 537.76 | 537.77 | 537.91 | 538.04 | 538.15 | 538.21 | 538.34 | 538.41 |
| | STATION | 1035+40.75 | 1035+61.32 | 1035+64.44 | 1035+81.79 | 1036+02.31 | 1036+18.19 | 1036+33.00 | 1036+34.07 | 1036+49.95 | 1036+65.82 | 1036+81.70 | 1036+97.58 | 1037+13.46 | 1037+29.33 |
| RIGHT EDGE | ELEV. | 536.65 | 536.94 | 536.98 | 537.21 | 537.45 | 537.62 | 537.77 | 537.78 | 537.92 | 538.05 | 538.16 | 538.26 | 538.34 | 538.41 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |

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NOTES:

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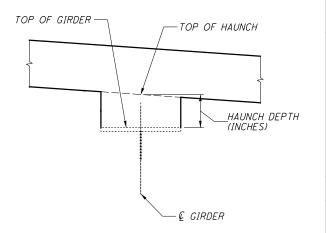
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| | | | | | | ESTIMAT | ED HAUNCH | H DEPTH TABL | E (IN) | | | | | | |
|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|------------------|-----------|------|-----------|-----------|-----------|
| | € BRG
HINGE 1,
UNIT 2 | 1/8 POINT | 1/4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | FS7 | 3/4 POINT | 7/8 POINT | © BRG.
PIER 5 | 1/8 POINT | FS8 | 1/4 POINT | 3/8 POINT | 1/2 POINT |
| GIRDER 3 | 5.76 | 5.97 | 6.25 | 6.43 | 6.56 | 6.60 | 5.62 | 6.59 | 5.45 | 5.15 | - | - | - | - | - |
| GIRDER 4 | 4.69 | 7.63 | 8.13 | 8.50 | 8.75 | 8.88 | 7.93 | 8.90 | 7.04 | 6.43 | 7.31 | 8.35 | 9.46 | 9.78 | 9.97 |
| GIRDER 5 | 6.49 | 7.09 | 7.60 | 7.98 | 8.22 | 8.35 | 7.39 | 8.36 | 6.74 | 6.41 | 7.28 | 8.27 | 9.37 | 9.62 | 9.73 |
| GIRDER 6 | 6.40 | 6.79 | 7.31 | 7.70 | 7.94 | 8.07 | 7.08 | 8.05 | 6.37 | 5.97 | 6.92 | 7.99 | 9.11 | 9.45 | 9.65 |
| GIRDER 7 | 7.19 | 7.69 | 7.98 | 8.14 | 8.17 | 8.04 | 6.87 | 7.78 | 5.86 | 5.21 | 6.36 | 7.57 | 8.77 | 9.34 | 9.69 |
| GIRDER 8 | 7.02 | 7.57 | 7.78 | 7.85 | 7.76 | 7.54 | 6.26 | 7.18 | 5.13 | 4.23 | 5.61 | 6.95 | 8.21 | 9.05 | 9.67 |
| GIRDER 9 | 6.57 | 6.64 | 6.87 | 6.95 | 6.88 | 6.66 | 4.96 | 6.29 | 3.75 | 3.04 | 4.70 | 5.79 | 7.57 | 8.70 | 9.50 |
| GIRDER 10 | 6.79 | 7.06 | 7.11 | 7.02 | 6.76 | 6.38 | 4.55 | 5.82 | 3.12 | 2.26 | 4.18 | 5.46 | 7.35 | 8.76 | 9.60 |
| GIRDER 11 | 6.66 | 6.89 | 6.82 | 6.62 | 6.26 | 5.76 | 3.79 | 5.11 | 2.26 | 1.33 | 3.59 | 5.00 | 7.12 | 8.85 | 9.66 |
| GIRDER 12 | 5.50 | 5.67 | 5.71 | 5.62 | 5.37 | 4.98 | 3.22 | 4.55 | 1.96 | 1.24 | 3.73 | 5.12 | 7.35 | 9.00 | 9.80 |
| GIRDER 13 | 5.28 | 7.08 | 5.53 | 5.75 | 5.79 | 3.85 | 2.58 | 4.15 | 2.19 | 1.60 | 3.95 | 5.21 | 7.44 | 8.90 | 9.74 |

| | | | | | | ESTIMA | ATED HAUNCH | DEPTH TAB | LE (IN) | | | | | | |
|-----------|-----------|-----------|-----------|-------|-----------|------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
| | 1/2 POINT | 5/8 POINT | 3/4 POINT | FS9 | 7/8 POINT | © BRG.
PIER 6 | 1/8 POINT | FS10 | 1/4 POINT | 3/8 POINT | 1/2 POINT | 5/8 POINT | 3/4 POINT | 7/8 POINT | © BRG.
PIER 7 |
| GIRDER 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GIRDER 4 | 9.97 | 9.53 | 7.85 | 8.70 | 5.75 | 5.84 | 6.99 | 7.12 | 8.93 | 9.80 | 10.80 | 11.51 | 11.94 | 12.23 | 12.77 |
| GIRDER 5 | 9.73 | 9.24 | 7.57 | 8.47 | 5.87 | 6.12 | 7.32 | 7.48 | 9.29 | 10.21 | 10.93 | 11.38 | 11.55 | 11.80 | 12.70 |
| GIRDER 6 | 9.65 | 9.30 | 7.79 | 8.73 | 6.50 | 6.98 | 8.31 | 8.60 | 10.42 | 11.34 | 12.06 | 12.61 | 13.02 | 13.74 | 14.93 |
| GIRDER 7 | 9.69 | 9.74 | 8.64 | 9.63 | 8.15 | 9.13 | 10.83 | 11.48 | 13.34 | 14.67 | 15.82 | 16.81 | 17.78 | 19.19 | 19.95 |
| GIRDER 8 | 9.67 | 10.12 | 9.52 | 10.55 | 9.43 | 10.31 | 11.74 | 12.01 | 13.83 | 14.62 | 15.13 | 15.37 | 15.51 | 15.79 | 15.51 |
| GIRDER 9 | 9.50 | 10.01 | 8.90 | 10.28 | 9.06 | 7.84 | 8.50 | 7.29 | 10.83 | 11.31 | 11.62 | 11.75 | 11.73 | 11.61 | 11.12 |
| GIRDER 10 | 9.60 | 10.10 | 8.97 | 10.36 | 9.09 | 7.83 | 8.48 | 7.18 | 10.71 | 11.02 | 11.16 | 11.13 | 10.93 | 10.56 | 10.01 |
| GIRDER 11 | 9.66 | 10.20 | 9.11 | 10.50 | 9.25 | 8.00 | 8.60 | 7.26 | 10.79 | 11.05 | 11.14 | 11.05 | 10.80 | 10.37 | 9.77 |
| GIRDER 12 | 9.80 | 10.31 | 9.18 | 10.56 | 9.26 | 7.94 | 8.52 | 7.15 | 10.67 | 10.90 | 10.95 | 10.83 | 10.54 | 10.08 | 9.44 |
| GIRDER 13 | 9.74 | 10.30 | 9.20 | 10.59 | 9.30 | 7.99 | 8.58 | 7.24 | 10.76 | 11.01 | 11.08 | 10.98 | 10.71 | 10.25 | 9.62 |

NOTES:

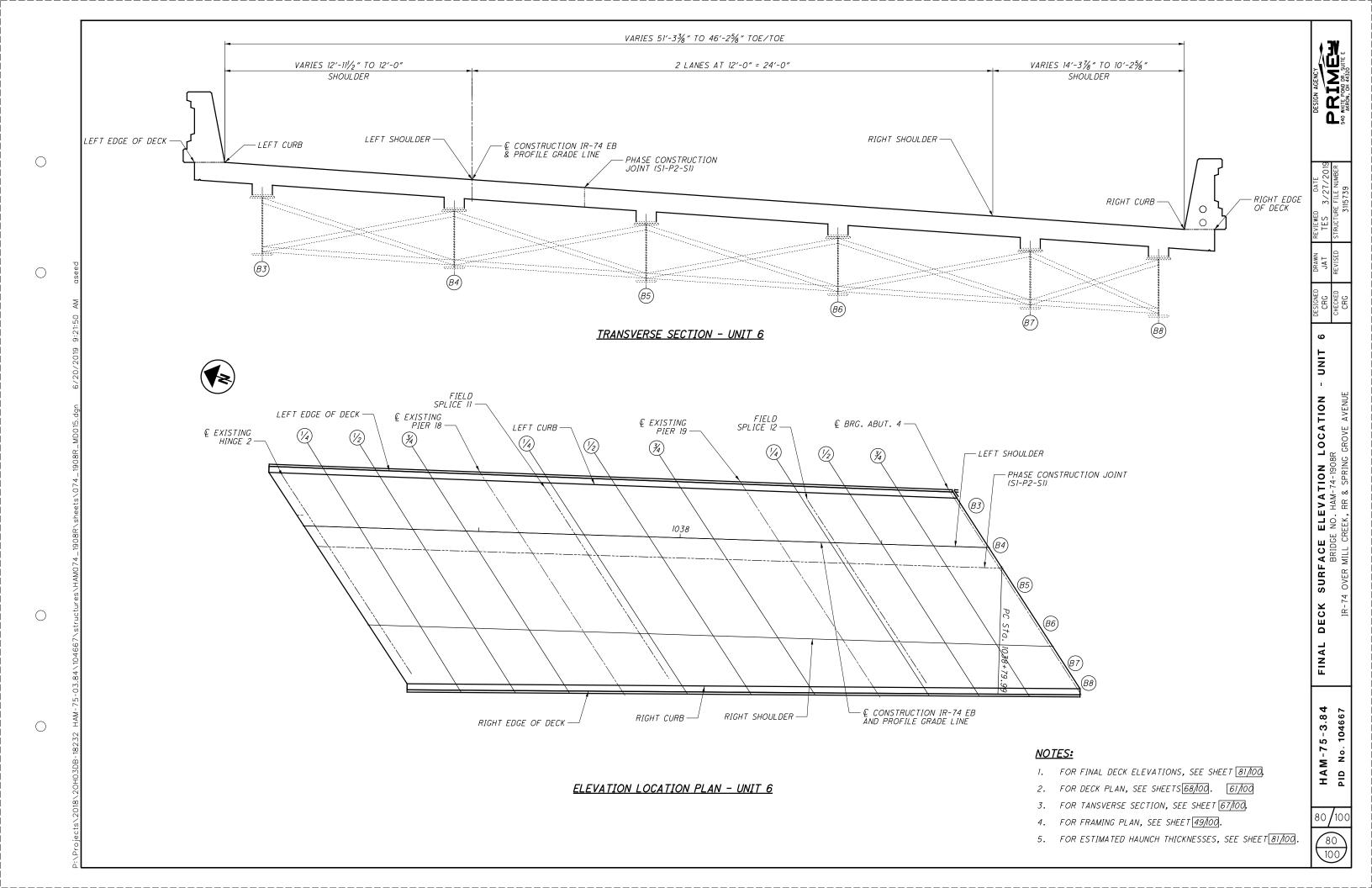
- 1. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TR<u>ANSVE</u>RSE SECTION AND PLAN VIEW, SEE SHEET <u>[76/100</u>].
- 2. FOR ADDITIONAL NOTES, SEE SHEET 76/100.





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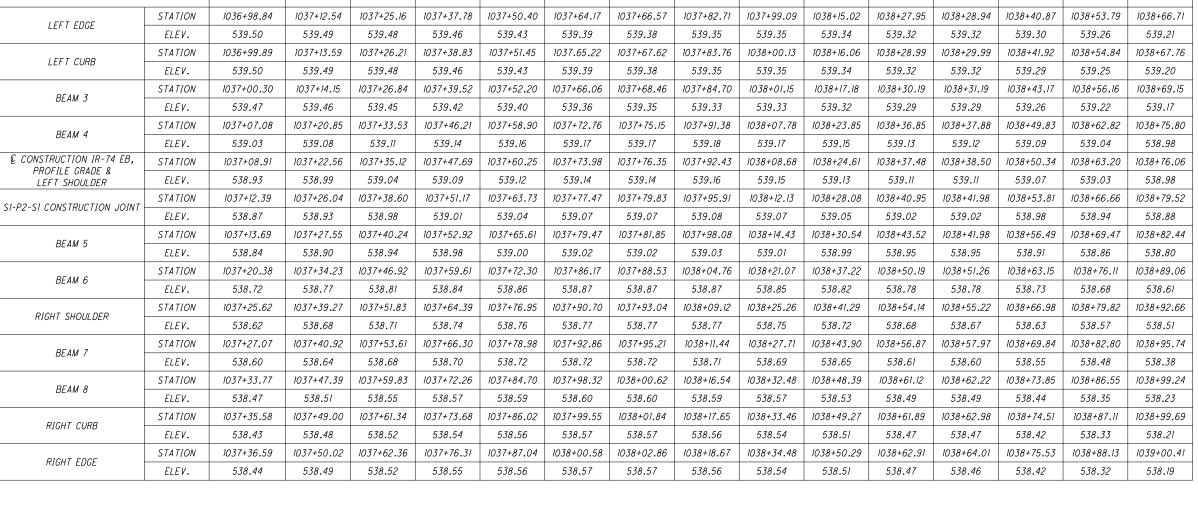
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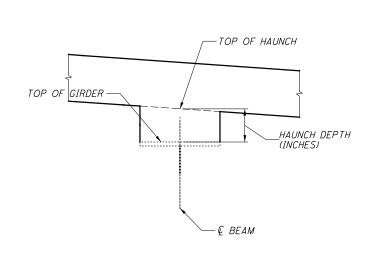
| | | | | | | FINAL DECK | SURFACE EL | EVATIONS - | UNIT 6 | | | | | | | |
|----------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------------|
| | | € HINGE 2 | 1/4 POINT | 1/2 POINT | 3/4 POINT | © PIER 18 | FSII | 1/4 POINT | 1/2 POINT | 3/4 POINT | € PIER 19 | 1/4 POINT | FS12 | 1/2 POINT | 3/4 POINT | © BRG.
ABUTMENT 4 |
| 1.55T 5005 | STATION | 1036+98.84 | 1037+12.54 | 1037+25.16 | 1037+37.78 | 1037+50.40 | 1037+64.17 | 1037+66.57 | 1037+82.71 | 1037+99.09 | 1038+15.02 | 1038+27.95 | 1038+28.94 | 1038+40.87 | 1038+53.79 | 1038+66.71 |
| LEFT EDGE | ELEV. | 539.50 | 539.49 | 539.48 | 539.46 | 539.43 | 539.39 | 539.38 | 539.35 | 539.35 | 539.34 | 539.32 | 539.32 | 539.30 | 539.26 | 539.21 |
| LEFT CURB | STATION | 1036+99.89 | 1037+13.59 | 1037+26.21 | 1037+38.83 | 1037+51.45 | 1037.65.22 | 1037+67.62 | 1037+83.76 | 1038+00.13 | 1038+16.06 | 1038+28.99 | 1038+29.99 | 1038+41.92 | 1038+54.84 | 1038+67.76 |
| LEFT CORD | ELEV. | 539.50 | 539.49 | 539.48 | 539.46 | 539.43 | 539.39 | 539.38 | 539.35 | 539.35 | 539.34 | 539.32 | 539.32 | 539.29 | 539.25 | 539.20 |
| BEAM 3 | STATION | 1037+00.30 | 1037+14.15 | 1037+26.84 | 1037+39.52 | 1037+52.20 | 1037+66.06 | 1037+68.46 | 1037+84.70 | 1038+01.15 | 1038+17.18 | 1038+30.19 | 1038+31.19 | 1038+43.17 | 1038+56.16 | 1038+69.15 |
| DEAM 3 | ELEV. | 539.47 | 539.46 | 539.45 | 539.42 | 539.40 | 539.36 | 539.35 | 539.33 | 539.33 | 539.32 | 539.29 | 539.29 | 539.26 | 539.22 | 539.17 |
| BEAM 4 | STATION | 1037+07.08 | 1037+20.85 | 1037+33.53 | 1037+46.21 | 1037+58.90 | 1037+72.76 | 1037+75.15 | 1037+91.38 | 1038+07.78 | 1038+23.85 | 1038+36.85 | 1038+37.88 | 1038+49.83 | 1038+62.82 | 1038+75.80 |
| BEAM 4 | ELEV. | 539.03 | 539.08 | 539.11 | 539.14 | 539.16 | 539.17 | 539.17 | 539.18 | 539.17 | 539.15 | 539.13 | 539.12 | 539.09 | 539.04 | 538.98 |
| € CONSTRUCTION IR-74 EB, | STATION | 1037+08.91 | 1037+22.56 | 1037+35.12 | 1037+47.69 | 1037+60.25 | 1037+73.98 | 1037+76.35 | 1037+92.43 | 1038+08.68 | 1038+24.61 | 1038+37.48 | 1038+38.50 | 1038+50.34 | 1038+63.20 | 1038+76.06 |
| PROFILE GRADE &
LEFT SHOULDER | ELEV. | 538.93 | 538.99 | 539.04 | 539.09 | 539.12 | 539.14 | 539.14 | 539.16 | 539.15 | 539.13 | 539.11 | 539.11 | 539.07 | 539.03 | 538.98 |
| TO CL CONCEDUCTION JOINT | STATION | 1037+12.39 | 1037+26.04 | 1037+38.60 | 1037+51.17 | 1037+63.73 | 1037+77.47 | 1037+79.83 | 1037+95.91 | 1038+12.13 | 1038+28.08 | 1038+40.95 | 1038+41.98 | 1038+53.81 | 1038+66.66 | 1038+79.52 |
| SI-P2-SI CONSTRUCTION JOINT | ELEV. | 538.87 | 538.93 | 538.98 | 539.01 | 539.04 | 539.07 | 539.07 | 539.08 | 539.07 | 539.05 | 539.02 | 539.02 | 538.98 | 538.94 | 538.88 |
| DEAL E | STATION | 1037+13.69 | 1037+27.55 | 1037+40.24 | 1037+52.92 | 1037+65.61 | 1037+79.47 | 1037+81.85 | 1037+98.08 | 1038+14.43 | 1038+30.54 | 1038+43.52 | 1038+41.98 | 1038+56.49 | 1038+69.47 | 1038+82.44 |
| BEAM 5 | ELEV. | 538.84 | 538.90 | 538.94 | 538.98 | 539.00 | 539.02 | 539.02 | 539.03 | 539.01 | 538.99 | 538.95 | 538.95 | 538.91 | 538.86 | 538.80 |
| DEALL C | STATION | 1037+20.38 | 1037+34.23 | 1037+46.92 | 1037+59.61 | 1037+72.30 | 1037+86.17 | 1037+88.53 | 1038+04.76 | 1038+21.07 | 1038+37.22 | 1038+50.19 | 1038+51.26 | 1038+63.15 | 1038+76.11 | 1038+89.06 |
| BEAM 6 | ELEV. | 538.72 | 538.77 | 538.81 | 538.84 | 538.86 | 538.87 | 538.87 | 538.87 | 538.85 | 538.82 | 538.78 | 538.78 | 538.73 | 538.68 | 538.61 |
| DIOUT CUOUI DED | STATION | 1037+25.62 | 1037+39.27 | 1037+51.83 | 1037+64.39 | 1037+76.95 | 1037+90.70 | 1037+93.04 | 1038+09.12 | 1038+25.26 | 1038+41.29 | 1038+54.14 | 1038+55.22 | 1038+66.98 | 1038+79.82 | 1038+92.66 |
| RIGHT SHOULDER | ELEV. | 538.62 | 538.68 | 538.71 | 538.74 | 538.76 | 538.77 | 538.77 | 538.77 | 538.75 | 538.72 | 538.68 | 538.67 | 538.63 | 538.57 | 538.51 |
| DE 414. 7 | STATION | 1037+27.07 | 1037+40.92 | 1037+53.61 | 1037+66.30 | 1037+78.98 | 1037+92.86 | 1037+95.21 | 1038+11.44 | 1038+27.71 | 1038+43.90 | 1038+56.87 | 1038+57.97 | 1038+69.84 | 1038+82.80 | 1038+95.74 |
| BEAM 7 | ELEV. | 538.60 | 538.64 | 538.68 | 538.70 | 538.72 | 538.72 | 538.72 | 538.71 | 538.69 | 538.65 | 538.61 | 538.60 | 538.55 | 538.48 | 538.38 |
| DEALL O | STATION | 1037+33.77 | 1037+47.39 | 1037+59.83 | 1037+72.26 | 1037+84.70 | 1037+98.32 | 1038+00.62 | 1038+16.54 | 1038+32.48 | 1038+48.39 | 1038+61.12 | 1038+62.22 | 1038+73.85 | 1038+86.55 | 1038+99.24 |
| BEAM 8 | ELEV. | 538.47 | 538.51 | 538.55 | 538.57 | 538.59 | 538.60 | 538.60 | 538.59 | 538.57 | 538.53 | 538.49 | 538.49 | 538.44 | 538.35 | 538.23 |
| DICUT CUDD | STATION | 1037+35.58 | 1037+49.00 | 1037+61.34 | 1037+73.68 | 1037+86.02 | 1037+99.55 | 1038+01.84 | 1038+17.65 | 1038+33.46 | 1038+49.27 | 1038+61.89 | 1038+62.98 | 1038+74.51 | 1038+87.11 | 1038+99.69 |
| RIGHT CURB | ELEV. | 538.43 | 538.48 | 538.52 | 538.54 | 538.56 | 538.57 | 538.57 | 538.56 | 538.54 | 538.51 | 538.47 | 538.47 | 538.42 | 538.33 | 538.21 |
| DICUT FOCE | STATION | 1037+36.59 | 1037+50.02 | 1037+62.36 | 1037+76.31 | 1037+87.04 | 1038+00.58 | 1038+02.86 | 1038+18.67 | 1038+34.48 | 1038+50.29 | 1038+62.91 | 1038+64.01 | 1038+75.53 | 1038+88.13 | 1039+00.4 |
| RIGHT EDGE | ELEV. | 538.44 | 538.49 | 538.52 | 538.55 | 538.56 | 538.57 | 538.57 | 538.56 | 538.54 | 538.51 | 538.47 | 538.46 | 538.42 | 538.32 | 538.19 |

| | | | | | | ESTIM | ATED HAUNCH | DEPTH TABL | E (IN) | | | | | | |
|--------|--------------------------|-----------|-----------|-----------|-------------------|-------|-------------|------------|-----------|-------------------|-----------|------|-----------|-----------|----------------------|
| | © BRG HINGE
2, UNIT 6 | 1/4 POINT | 1/2 POINT | 3/4 POINT | © BRG. PIER
18 | FSII | 1/4 POINT | 1/2 POINT | 3/4 POINT | © BRG. PIER
19 | 1/4 POINT | FS12 | 1/2 POINT | 3/4 POINT | © BRG.
ABUTMENT 4 |
| BEAM 3 | | | | | | | | | | | | | | | |
| BEAM 4 | | | | | | | | | | | | | | | |
| BEAM 5 | 9.02 | 9.14 | 9.16 | 9.06 | 8.85 | 8.56 | 9.03 | 9.03 | 8.84 | 8.48 | 8.37 | 7.87 | 8.14 | 7.79 | 7.22 |
| BEAM 6 | 8.53 | 8.74 | 8.84 | 8.83 | 8.71 | 8.33 | 8.81 | 8.74 | 8.47 | 8.03 | 8.01 | 7.55 | 7.86 | 7.60 | 7.09 |
| BEAM 7 | 8.08 | 8.39 | 8.59 | 8.67 | 8.65 | 8.34 | 8.81 | 8.78 | 8.58 | 8.19 | 8.06 | 7.55 | 7.82 | 7.34 | 6.57 |
| BEAM 8 | 8.21 | 8.37 | 8.42 | 8.37 | 8.20 | 7.95 | 8.36 | 8.33 | 8.13 | 7.76 | 7.85 | 7.38 | 7.82 | 7.34 | 6.42 |

NOTES:

- FINAL DECK ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURED.
- 2. FOR ELEVATION DIAGRAM DEPICTING DECK SURFACE LOCATIONS IN TRANSVERSE SECTION AND PLAN VIEW, SEE SHEET 80/100.
- 3. FOR DECK POURING SEQUENCE, SEE SHEET 71/100.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 80/100.





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ABL

| | | SUITE E |
|---------------|----|----------------------------|
| DESIGN AGENCY | Σ | POND DR. SI
N. OH 44320 |
| DESIGN | Ŭ. | WHITE |
| | ш | 240 |

EXAMPLE DECK SCREED ELEVATION TABLE IS A TEMPLATE FOR THE CONTRACTOR TO USE FOR THE FINAL CONTRACTOR FURNISHED SCREED ELEVATION TABLE TO BE USED FOR CONSTRUCTION. THE EXAMPLE TABLE SHOWS ONLY A PORTION OF THE DECK FOR UNIT 1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER, FOR INCLUSION WITH THE AS-BUILT PLANS, THE FINAL DECK SCREED ELEVATION TABLE FOR EACH PHASE OF THE WORK WITH THE CALCULATED FINAL DECK SCREED ELEVATION AND THE FINAL TOP OF HAUNCH ELEVATION FOR EACH SIATION AND OFFSET SHOWN IN THE FINAL SURFACE ELEVATION SHEETS 73/100 AND 74/100 FOR UNIT 1, 77/100 AND 78/100 FOR UNIT 2, AND 81/100 FOR UNIT 6.

FIELD PROCEDURE DURING PHASED CONSTRUCTION OF DECK WITHOUT CLOSURE POURS:

NOTES:

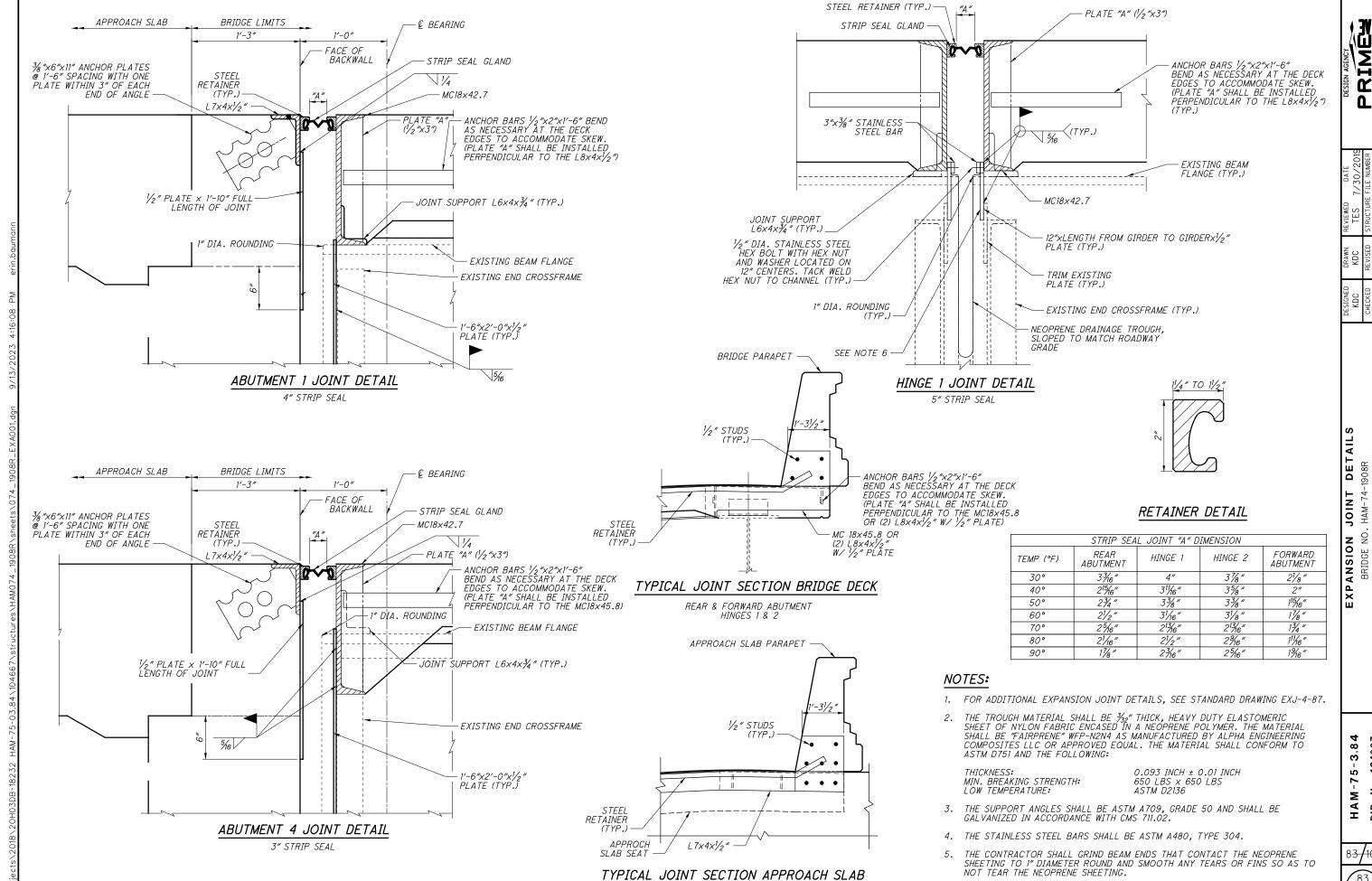
- 1. FIELD SURVEY THE BOTTOM OF THE GIRDER/BEAM ELEVATION AT EACH OF THE LOCATIONS WITHIN EACH UNIT BEFORE DECK REMOVAL AND AFTER DECK REMOVAL. (DECK REMOVAL SEOUENCE WAS PROVIDED IN DEMOLITION PLANS FOR BU-10).
- 2. CALCULATE THE SURVEYED REBOUND BY SUBTRACTING THE BOTTOM OF GIRDER/BEAM ELEVATION AFTER THE DECK REMOVAL FROM THE BOTTOM OF THE GIRDER/BEAM ELEVATION BEFORE REMOVAL.
- 3. ADD THE AMOUNT OF THE EXPECTED REMAINING DEAD LOAD DEFLECTION CALCULATED FROM THE MODEL FOR THE PHASED POUR TO THE FINAL DECK SURFACE ELEVATION TO OBTAIN THE DECK SCREED ELEVATION. USE THE REBOUND OF THE CLOSEST GIRDER/BEAM FOR SCREED LINES NOT OVER GIRDER/BEAMS.
- 4. SUBTRACT THE DECK THICKNESS FROM THE DECK SCREED ELEVATION TO DETERMINE THE TOP OF HAUNCH ELEVATION.
- 5. REPEAT THE PROCEDURE FOR EACH PHASE OF CONSTRUCTION.
- 6. A SPREADSHEET INCLUDING STATION, OFFSET, FINAL DECK SURFACE ELEVATIONS AND EXPECTED REMAINING DEAD LOAD DEFLECTIONS WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER AND SHALL BE INCLUDED IN THE AS- BUILT PLANS IN PDF FORMAT.

SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

TOP OF HAUNCH ELEVATIONS SHOWN REPRESENT THE THEORETICAL LOCATION OF THE BOTTOM OF THE DECK ABOVE A GIRDER/BEAM HAUNCH PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD

| | | ABUTMENT 1 | 1/8 POINT | 1/4 POINT | 3/8 POINT | 1/2 POINT | FS1 | 5/8 POINT | 3/4 POINT | 7/8 POINT | BRG. PIER 1 |
|--------------------------|-----------------------------------------------------------------|---------------------|---------------------|---------------------|---------------|---------------------|---------------------|---------------------|---------------|---------------------|---------------------|
| | STATION | 1027+58.10 | 1027+71.01 | 1027+83.92 | 1027+96.82 | 1028+09.72 | 1028+21.72 | 1028+22.61 | 1028+35.51 | 1028+48.41 | 1028+61.30 |
| | OFFSET (NEGATIVE TO THE LEFT) | -24.67 | -24.61 | -24.67 | -24.84 | -25.13 | -25.51 | -25.51 | -25.61 | -25.83 | -26.15 |
| LEFT EDGE | TOTAL DECK DEFLECTION (IN) (G2) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | FINAL DECK SURFACE ELEVATION | 517.69 | 517.88 | 518.08 | 518.31 | 518.55 | 518.80 | 518.82 | 519.10 | 519.39 | 519.71 |
| | DECK SCREED ELEVATION | 517.69 | 517.88 | 518.08 | 518.31 | 518.55 | 518.80 | 518.82 | 519.10 | 519.39 | 519.71 |
| | STATION | 1027+58.22 | 1027+71.16 | 1027+84.10 | 1027+97.05 | 1028+09.99 | 1028+22.04 | 1028+22.94 | 1028+35.85 | 1028+48.77 | 1028+61.68 |
| | OFFSET (NEGATIVE TO THE LEFT) | -22.97 | -22.66 | -22.48 | -22.41 | -22.45 | -22.60 | -22.61 | -22.78 | -23.00 | -23.33 |
| LEFT CURB | TOTAL DECK DEFLECTION (IN) (G2) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | FINAL DECK SURFACE ELEVATION | 517.69 | 517.88 | 518.08 | 518.31 | 518.56 | 518.81 | 518.82 | 519.10 | 519.40 | 519.72 |
| | DECK SCREED ELEVATION | 517.69 | 517.88 | 518.08 | 518.31 | 518.56 | 518.81 | 518.82 | 519.10 | 519.40 | 519.72 |
| | STATION | 1027+58.28 | 1027+71.20 | 1027+84.13 | 1027+97.05 | 1028+09.98 | 1028+22.16 | 1028+22.89 | 1028+35.81 | 1028+48.73 | 1028+61.64 |
| | OFFSET (NEGATIVE TO THE LEFT) | -22.17 | -22.11 | -22.17 | -22.35 | -22.64 | -23.02 | -23.01 | -23.11 | -23.33 | -23.66 |
| | BOTTOM OF FLANGE ELEV. BEFORE REMOVAL | | | | | | | | | | |
| | BOTTOM OF FLANGE ELEV. AFTER REMOVAL | | | | | | | | | | |
| | REBOUND (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOP OF GIRDER ELEVATION | | | | | | | | | | |
| | EXISTING DECK THICKNESS (IN) | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| GIRDER 2 | EXISTING TRIBUTARY DEAD LOAD (K) | 2.19 | 2.25 | 2.29 | 2.46 | 2.65 | 2.23 | 2.58 | 2.47 | 2.13 | 2.25 |
| | PROPOSED DECK THICKNESS (IN) | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 |
| | PROPOSED TRIBUTARY DEAD LOAD (K) | 1.08 | 1.07 | 1.06 | 1.07 | 1.07 | 1.03 | 1.05 | 1.04 | 1.02 | 1.02 |
| | TOTAL DECK DEFLECTION (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | HAUNCH THICKNESS (IN) | 6202.93 | 6205.33 | 6207.97 | 6210.97 | 6213.97 | 6216.97 | 6217.09 | 6220.45 | 6224.05 | 6227.89 |
| | FINAL DECK SURFACE ELEVATION | 517.64 | 517.84 | 518.06 | 518.31 | 518.56 | 518.81 | 518.82 | 519.10 | 519.40 | 519.72 |
| | DECK SCREED ELEVATION | 517.64 | 517.84 | 518.06 | 518.31 | 518.56 | 518.81 | 518.82 | 519.10 | 519.40 | 519.72 |
| | TOP OF HAUNCH ELEVATION | 516.91 | 517.11 | 517.33 | 517.58 | 517.83 | 518.08 | 518.09 | 518.37 | 518.67 | 518.99 |
| | STATION | 1027+58.90 | 1027+71.90 | 1027+84.90 | 1027+97.90 | 1028+10.90 | 1028+23.00 | 1028+23.89 | 1028+36.88 | 1028+49.88 | 1028+62.86 |
| | OFFSET (NEGATIVE TO THE LEFT) | -13.15 | -13.10 | -13.17 | -13.35 | -13.65 | -14.03 | -14.03 | -14.15 | -14.39 | -14.74 |
| | BOTTOM OF FLANGE ELEV. BEFORE REMOVAL | | | | | | | | | | |
| | BOTTOM OF FLANGE ELEV. AFTER REMOVAL | | | | | | | | | | |
| | REBOUND (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOP OF GIRDER ELEVATION | | | | | | | | | | |
| | EXISTING DECK THICKNESS (IN) | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| GIRDER 3 | EXISTING TRIBUTARY DEAD LOAD (K) | 2.31 | 2.37 | 2.36 | 2.55 | 2.75 | 2.33 | 2.68 | 2.60 | 2.31 | 2.42 |
| | PROPOSED DECK THICKNESS (IN) | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 |
| | PROPOSED TRIBUTARY DEAD LOAD (K) | 1.36 | 1.35 | 1.35 | 1.35 | 1.36 | 1.33 | 1.35 | 1.34 | 1.32 | 1.32 |
| | TOTAL DECK DEFLECTION (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | HAUNCH THICKNESS (IN) | 6194.89 | 6197.29 | 6200.05 | 6203.05 | 6206.17 | 6209.41 | 6209.65 | 6213.01 | 6216.61 | 6220.45 |
| | FINAL DECK SURFACE ELEVATION | 516.97 | 517.17 | 517.40 | 517.65 | 517.91 | 518.18 | 518.20 | 518.48 | 518.78 | 519.10 |
| | DECK SCREED ELEVATION | 516.97 | 517.17 | 517.40 | 517.65 | 517.91 | 518.18 | 518.20 | 518.48 | 518.78 | 519.10 |
| | TOP OF HAUNCH ELEVATION | 516.24 | 516.44 | 516.67 | 516.92 | 517.18 | 517.45 | 517.47 | 517.75 | 518.05 | 518.37 |
| | STATION STATE TO THE LETT | 1027+58.98 | 1027+71.98 | 1027+85.00 | 1027+98.03 | 1028+11.07 | 1028+23.22 | 1028+24.12 | 1028+37.15 | 1028+50.19 | 1028+63.24 |
| | OFFSET (NEGATIVE TO THE LEFT) | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 | -12.00 |
| LEFT SHOULDER | TOTAL DECK SUPEACE SUSYATION | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | FINAL DECK SURFACE ELEVATION | 516.89 | 517.09 | 517.31 | 517.55 | 517.79 | 518.03 | 518.05 | 518.32 | 518.61 | 518.90 |
| | DECK SCREED ELEVATION | 516.89 | 517.09 | 517.31 | 517.55 | 517.79 | 518.03 | 518.05 | 518.32 | 518.61 | 518.90 |
| C4 PC CC | STATION OFFSET (NEGATIVE TO THE LEFT) | 1027+59.24
-8.17 | 1027+72.29
-8.12 | 1027+85.33
-8.18 | 1027+98.38 | 1028+11.42
-8.66 | 1028+23.55
-9.04 | 1028+24.45
-9.06 | 1028+37.49 | 1028+50.52
-9.44 | 1028+63.55
-9.80 |
| S1-P2-S2
CONSTRUCTION | OFFSET (NEGATIVE TO THE LEFT) TOTAL DECK DEFLECTION (IN) (G3&4) | 0.00 | 0.00 | 0.00 | -3.36
0.00 | 0.00 | 0.00 | 0.00 | -9.19
0.00 | 0.00 | 0.00 |
| JOINT | FINAL DECK SURFACE ELEVATION | 516.60 | 516.81 | 517.03 | 517.28 | 517.55 | 517.82 | 517.84 | 518.12 | 518.42 | 518.74 |
| | DECK SCREED ELEVATION | 516.60 | 516.81 | 517.03 | 517.28 | 517.55 | 517.82 | 517.84 | 518.12 | 518.42 | 518.74 |
| | STATION | 1027+59.52 | 1027+72.60 | 1027+85.68 | 1027+98.76 | | 1028+23.98 | 1028+24.90 | 1028+37.98 | 1028+51.04 | 1028+64.11 |
| | OFFSET (NEGATIVE TO THE LEFT) | -4.17 | -4.12 | -4.19 | -4.37 | 1028+11.84
-4.67 | -5.06 | -5.06 | -5.18 | -5.42 | -5.77 |
| | BOTTOM OF FLANGE ELEV. BEFORE REMOVAL | -4.17 | -4.12 | -4.18 | -4.31 | -4.07 | -5.00 | -5.06 | -5.18 | -5.42 | -5.11 |
| | BOTTOM OF FLANGE ELEV. BEFORE REMOVAL | | | | | | | | | + | |
| | REBOUND (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOP OF GIRDER ELEVATION | 0.00 | 0.00 | 0.00 | V.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | EXISTING DECK THICKNESS (IN) | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| GIRDER 4 | EXISTING DECK THICKNESS (IN) EXISTING TRIBUTARY DEAD LOAD (K) | 2.60 | 2.60 | 2.56 | 2.68 | 2.86 | 2.37 | 2.73 | 2.65 | 2.30 | 2.38 |
| CINDER 4 | PROPOSED DECK THICKNESS (IN) | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 |
| | PROPOSED TRIBUTARY DEAD LOAD (K) | 1.38 | 1.37 | 1.37 | 1.37 | 1.38 | 1.34 | 1.36 | 1.36 | 1.33 | 1.34 |
| | TOTAL DECK DEFLECTION (IN) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | HAUNCH THICKNESS (IN) | 6186.97 | 6189.37 | 6192.13 | 6195.13 | 6198.37 | 6201.61 | 6201.85 | 6205.21 | 6208.81 | 6212.77 |
| | FINAL DECK SURFACE ELEVATION | | | 516.74 | 516.99 | 517.26 | 517.53 | 517.55 | 517.83 | | 518.46 |
| | DECK SCREED ELEVATION | 516.31 | 516.51
516.51 | 516.74 | | 517.26 | 517.53 | 517.55 | 517.83 | 518.13 | |
| | TOP OF HAUNCH ELEVATION | 516.31 | 516.51 | | 516.99 | | | | | 518.13 | 518.46 |
| | | 515.53 | 515.78 | 516.01 | 516.26 | 516.53 | 516.80 | 516.82 | 517.10 | 517.40 | 517.73 |





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PID

83/100

83 100

6. SEE SHEET 40/100 FOR HINGE 1 CONFLICT DETAILS.

EXPANSION JOINT DETAILS
BRIDGE NO. HAM-74-1908R
R MILL CREEK, RR & SPRING GROV

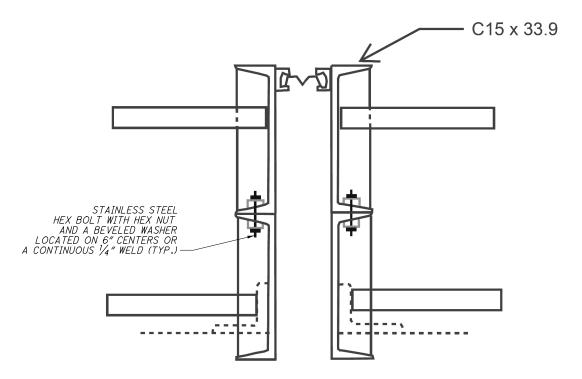
3.84 HAM-75-Š

PID

83A**/**100 83A

100

STAINLESS STEEL HEX BOLT WITH HEX NUT - ANCHOR BARS ½"x2"x1'-6" BEND AS NECESSARY AT THE DECK AND A BEVELED WASHER LOCATED ON 6" CENTERS OR A CONTINUOUS 1/4" WELD (TYP.) EDGES TO ACCOMMODATE SKEW. (PLATE "A" SHALL BE INSTALLED STEEL RETAINER (TYP.) --PLATE "A" (1/2"x3") PERPENDICULAR TO THE L8x4x1/2") STRIP SEAL GLAND -6S553 5/6 (TYP.) 3"x¾" STAINLESS STEEL BAR EXISTING BEAM FLANGE (TYP.) 25516 2S509, 2S520, 2S530, 2S581, OR 2S589 -6S524 OR 6S525 JOINT SUPPORT L6x4x¾" (TYP.) -C12x25 (TYP.) 12"xLENGTH FROM GIRDER TO GIRDERx1/2" PLATE (TYP.) 1/2" DIA. STAINLESS STEEL HEX BOLT WITH HEX NUT AND WASHER LOCATED ON TRIM EXISTING 12" CENTERS. TACK WELD PLATE (TYP.) HEX NUT TO CHANNEL (TYP.) 1" DIA. ROUNDING (TYP.) EXISTING END CROSSFRAME (TYP.) NEOPRENE DRAINAGE TROUGH, SLOPED TO MATCH ROADWAY GRADE SEE NOTE 6 HINGE 2 JOINT DETAIL 4" STRIP SEAL



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PIER 7 JOINT DETAIL

NOTES:

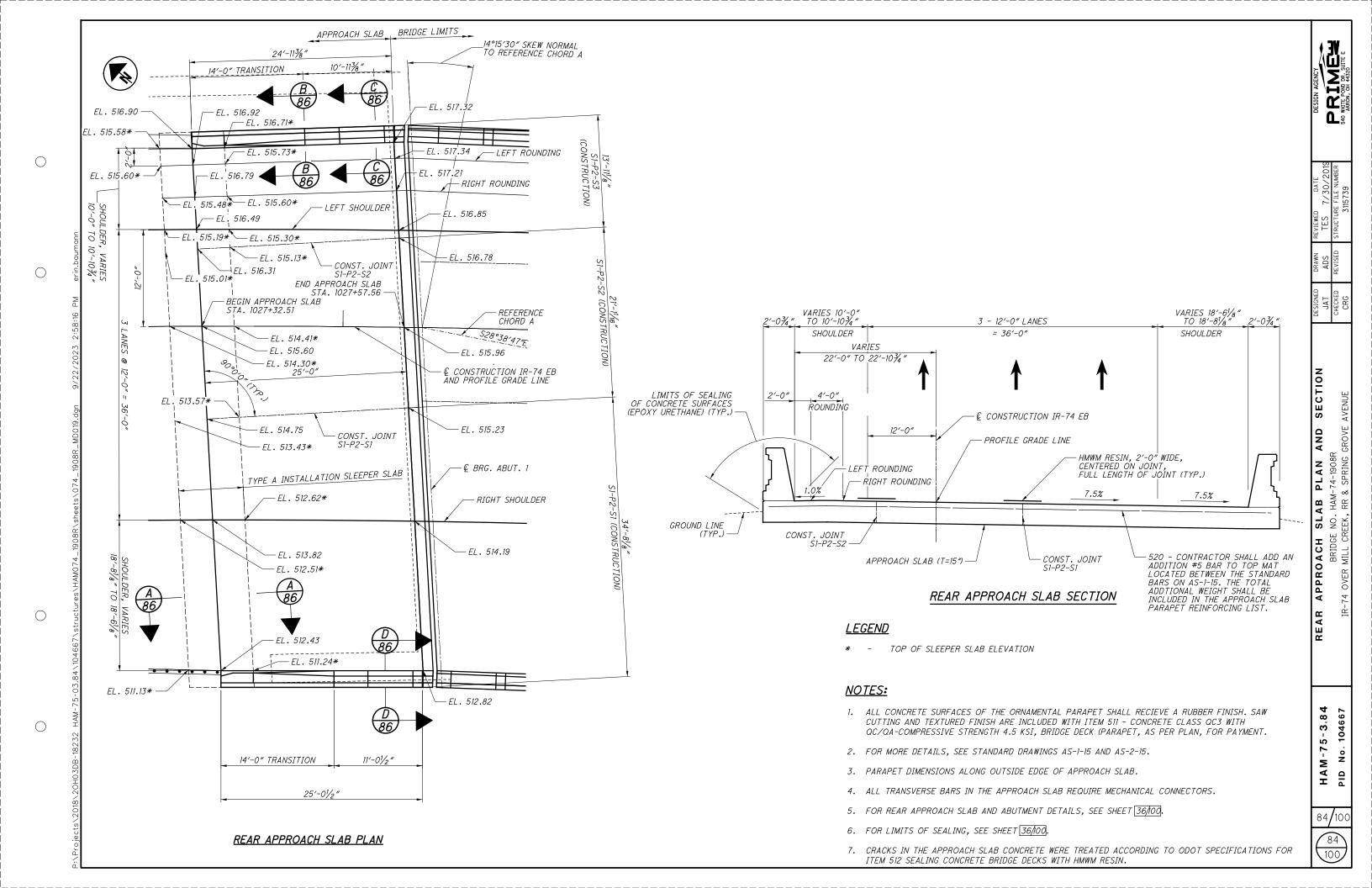
- 1. FOR ADDITIONAL EXPANSION JOINT DETAILS, SEE STANDARD DRAWING
- THE TROUGH MATERIAL SHALL BE $\frac{3}{32}$ THICK, HEAVY DUTY ELASTOMERIC SHEET OF NYLON FABRIC ENCASED IN A NEOPRENE POLYMER. THE MATERIAL SHALL BE "FAIRPRENE" WFP-N2N4 AS MANUFACTURED BY ALPHA ENGINEERING COMPOSITES LLC OR APPROVED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

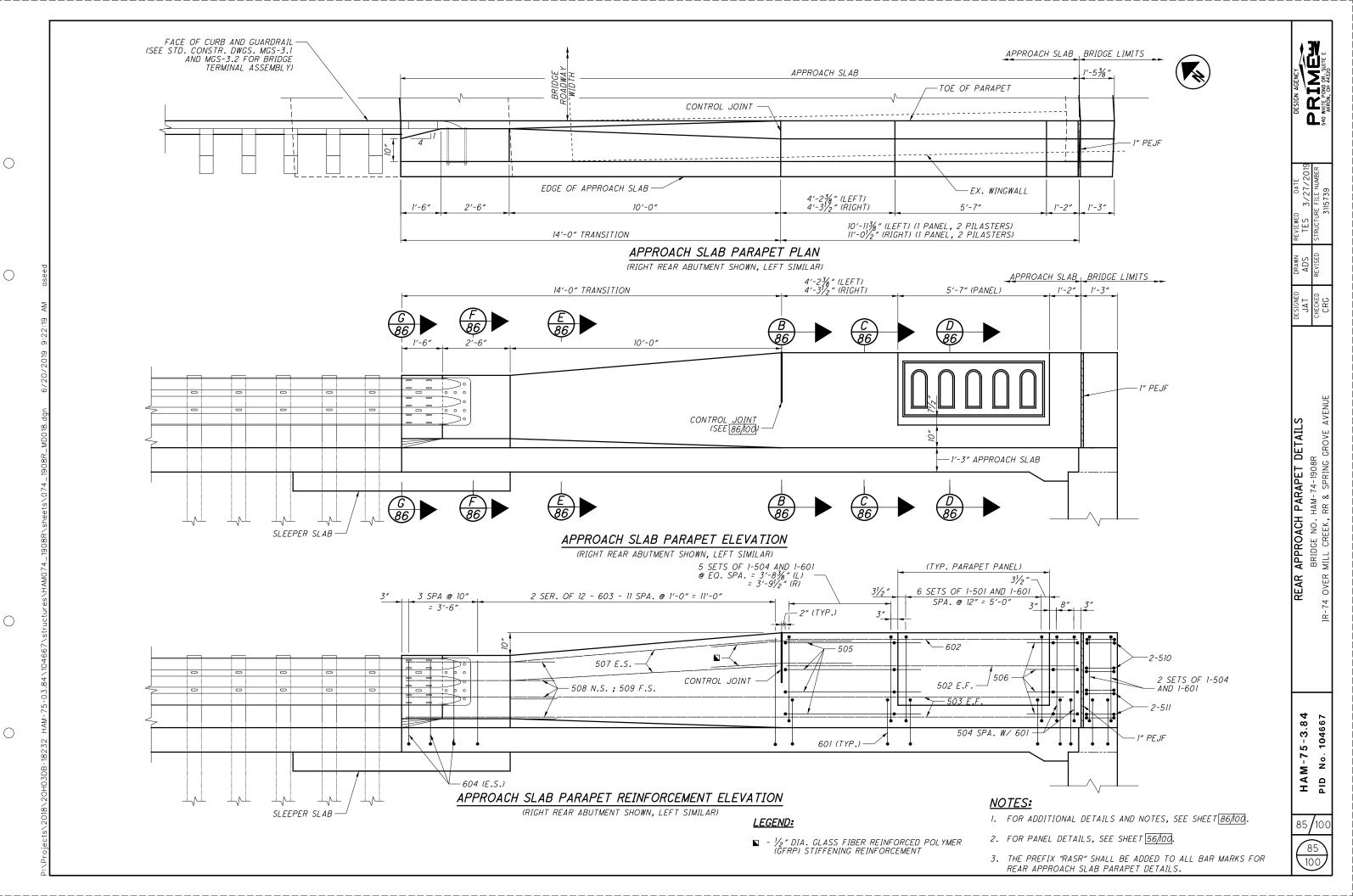
THICKNESS: MIN. BREAKING STRENGTH: LOW TEMPERATURE:

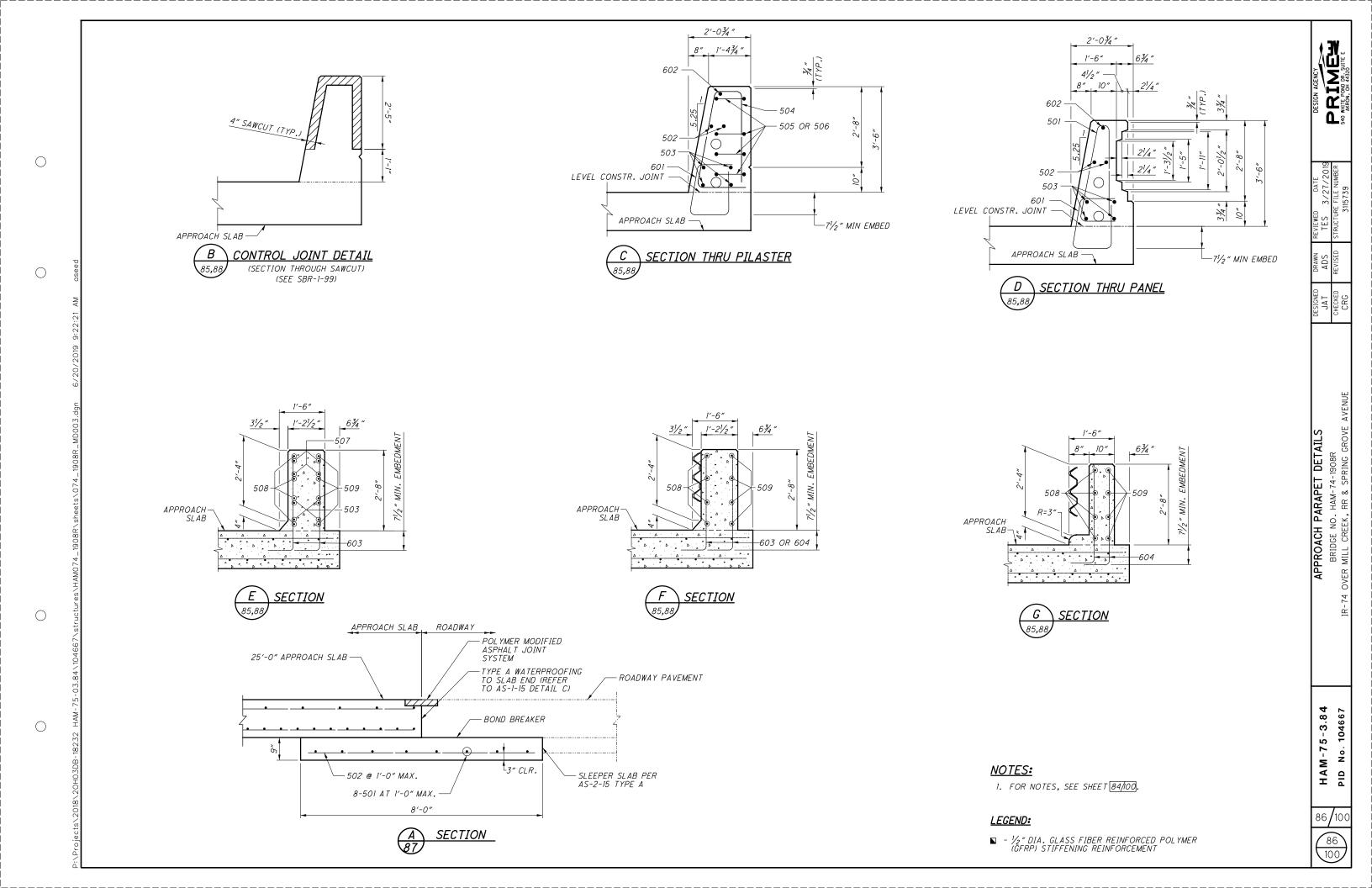
650 LBS x 650 LBS ASTM D2136

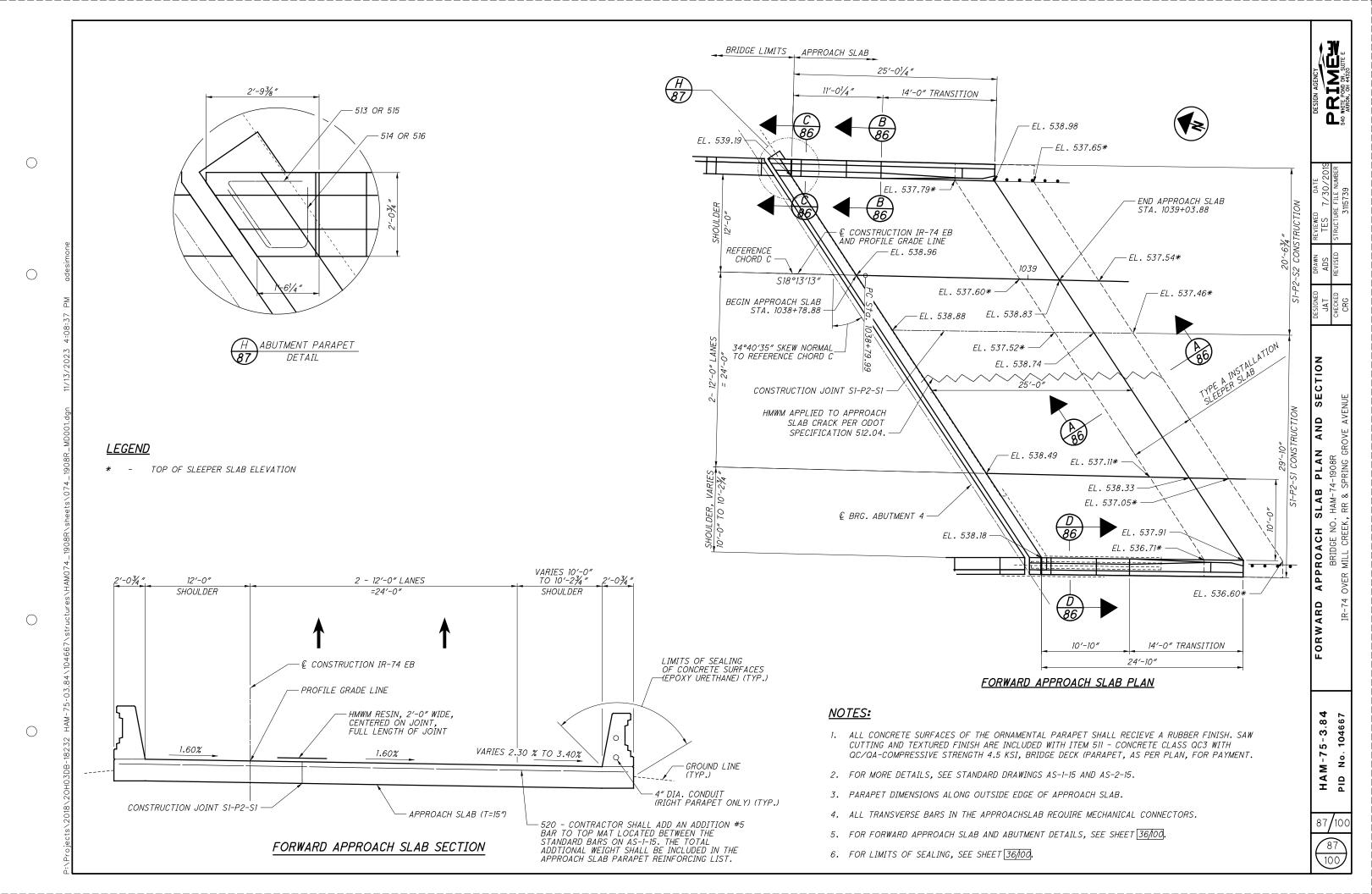
0.093 INCH ± 0.01 INCH

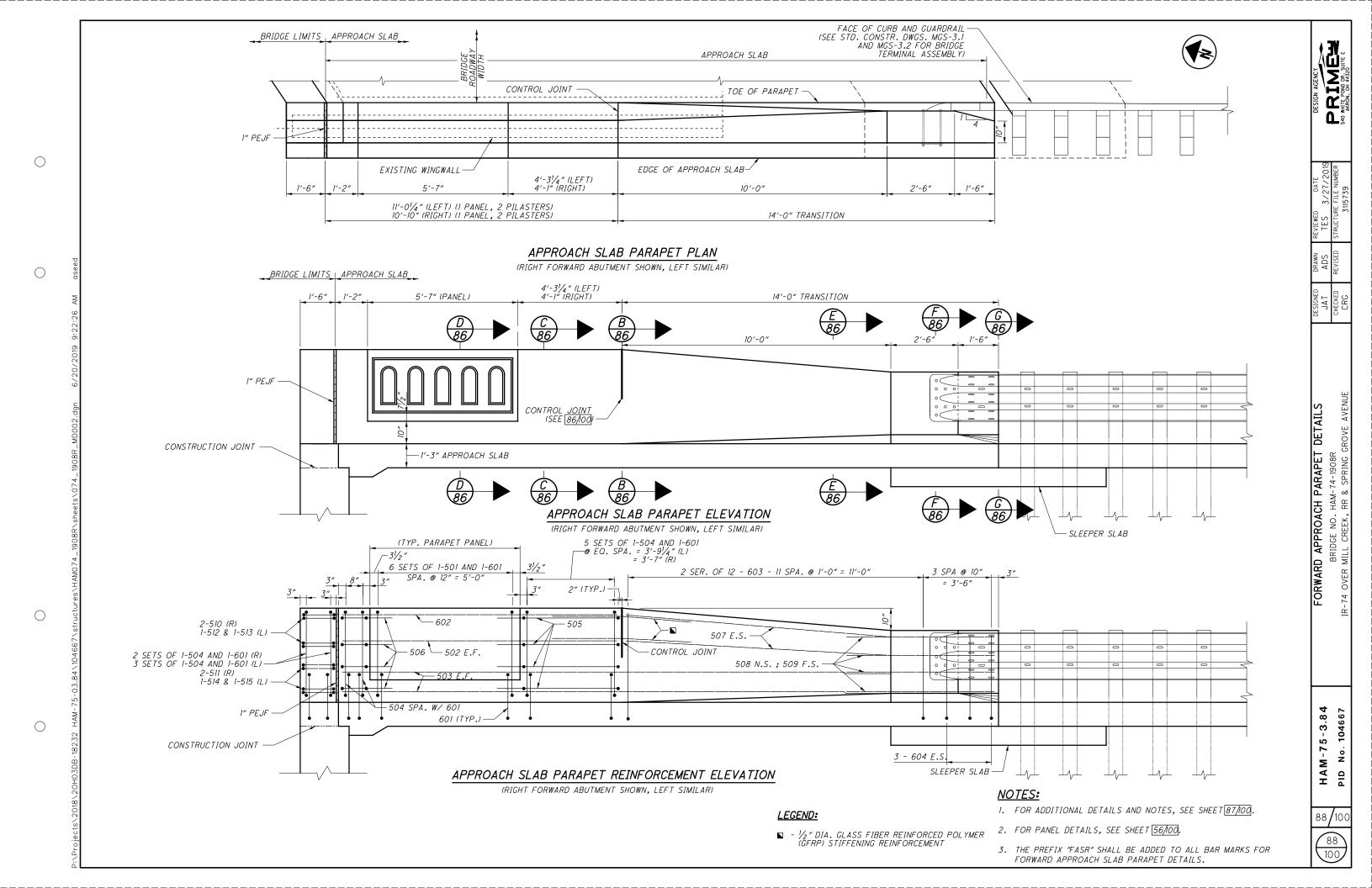
- 3. THE SUPPORT ANGLES SHALL BE ASTM A709, GRADE 50 AND SHALL BE GAL VANIZED IN ACCORDANCE WITH CMS 711.02.
- 4. THE STAINLESS STEEL BARS SHALL BE ASTM A480, TYPE 304.
- THE CONTRACTOR SHALL GRIND BEAM ENDS THAT CONTACT THE NEOPRENE SHEETING TO 1" DIAMETER ROUND AND SMOOTH ANY TEARS OR FINS SO AS TO NOT TEAR THE NEOPRENE SHEETING.
- 6. EACH CANNEL IS TO BE METALIZED SEPERATELY THEN BOLTED TOGETHER.
- 7. EXCESS CONCRETE REMOVED AT HINGE 2 TO AVOID CONFLICT WITH STEEL MEMBERS.

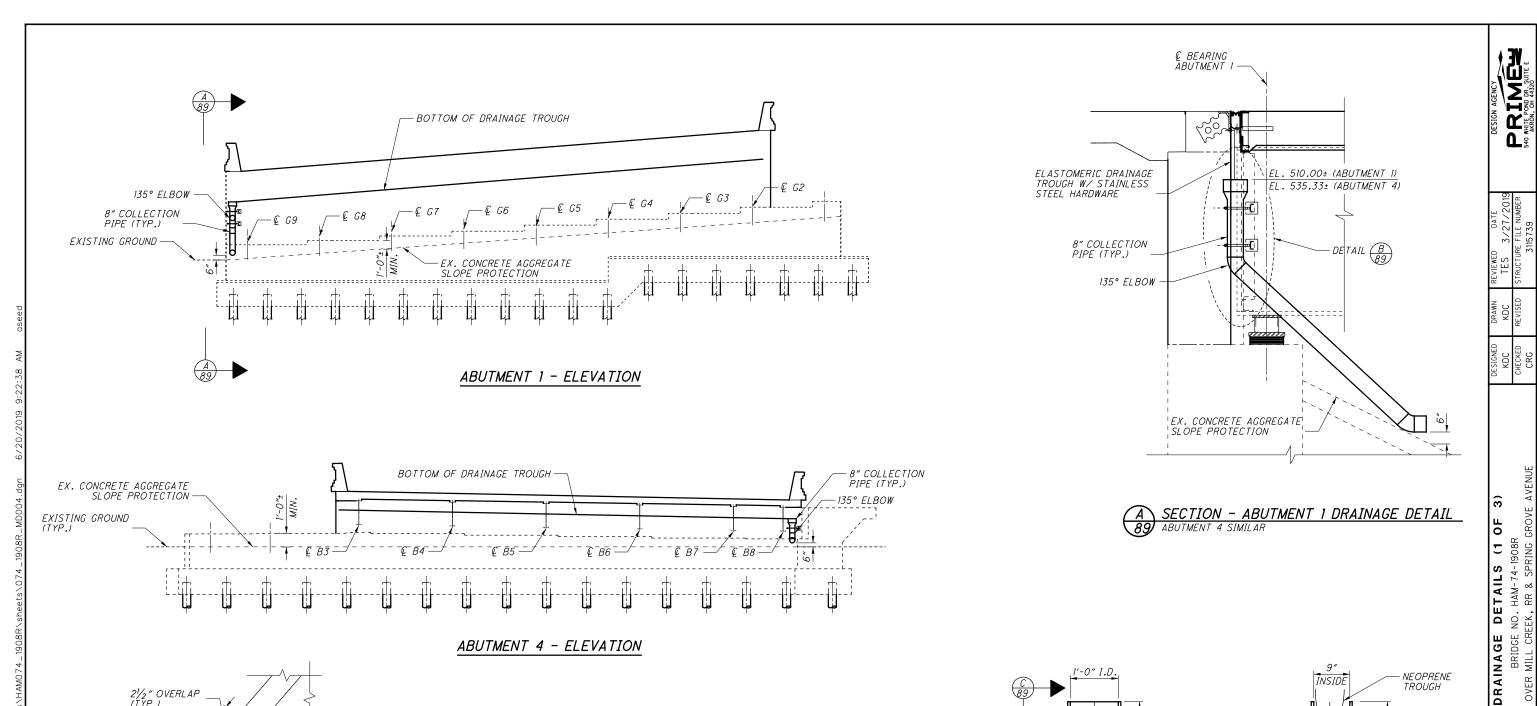




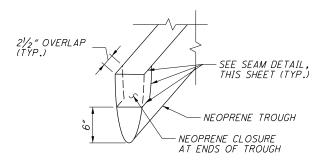








ABUTMENT 4 - ELEVATION

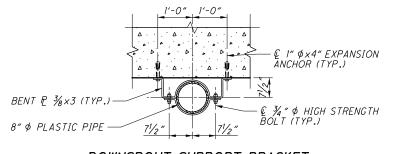


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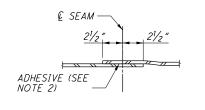
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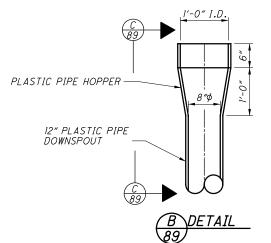
END OF TROUGH CLOSURE DETAIL

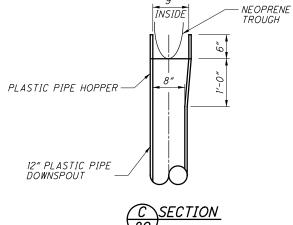


DOWNSPOUT SUPPORT BRACKET



SEAM DETAIL





NOTES:

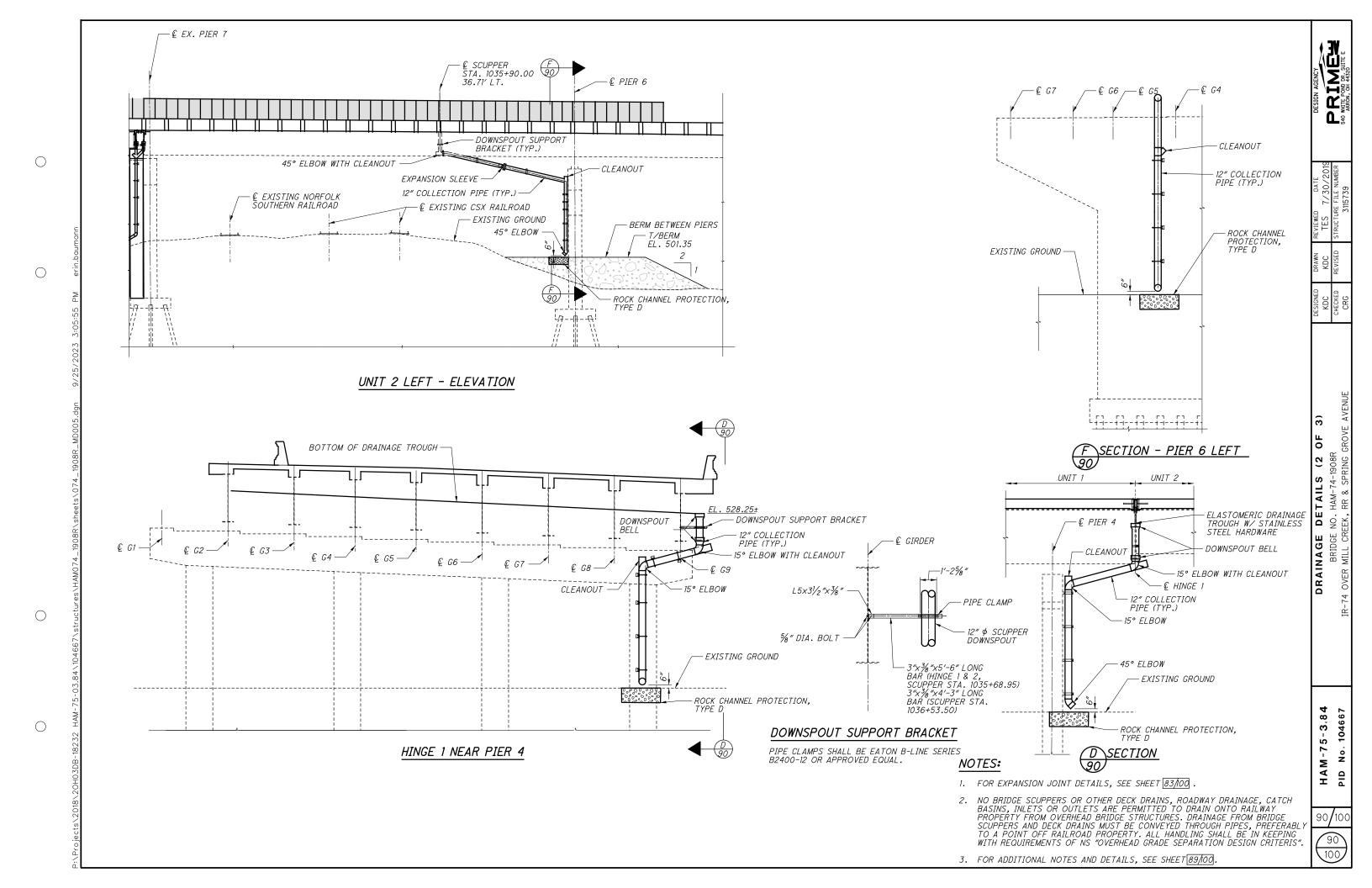
- 1. FOR EXPANSION JOINT DETAILS, SEE SHEET 83/100
- 2. AT THE ENDS OF THE NEOPRENE DRAINAGE TROUGHS, OVERLAP THE ENDS OF THE NEOPRENE AND SEAL WITH 3M SCOTCH-WELD HP 1357 NEOPRENE CONTACT ADHESIVE OR APPROVED EQUAL.
- 3. ALL BRACKETS SHALL BE ASTM A709, GRADE 50 AND SHALL BE GALVANIZED PER CMS 711.02.

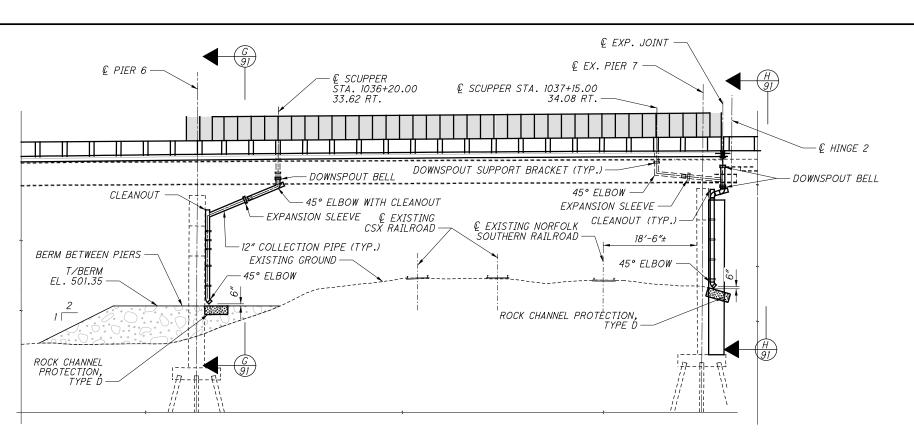
4. ALL MATERIALS FOR THE DOWNSPOUTS AND ELBOWS SHALL BE PLASTIC PIPE IN ACCORDANCE WITH CMS 707.45.



HAM-75-3.84 No. 104667

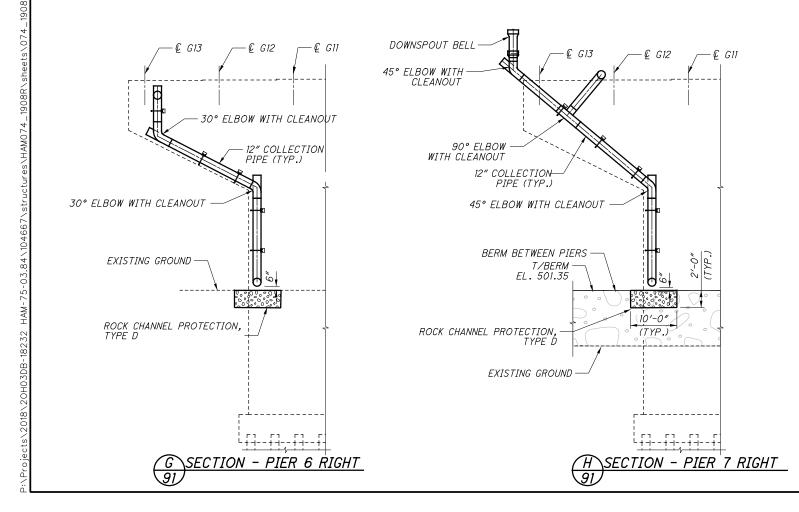
PID

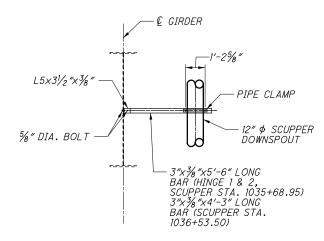




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UNIT 2 RIGHT - ELEVATION





DOWNSPOUT SUPPORT BRACKET

PIPE CLAMPS SHALL BE EATON B-LINE SERIES B2400-12 OR APPROVED EQUAL.

NOTES:

- 1. FOR EXPANSION JOINT DETAILS, SEE SHEET 83/100
- NO BRIDGE SCUPPERS OR OTHER DECK DRAINS, ROADWAY DRAINAGE, CATCH BASINS, INLETS OR OUTLETS ARE PERMITTED TO DRAIN ONTO RAILWAY PROPERTY FROM OVERHEAD BRIDGE STRUCTURES. DRAINAGE FROM BRIDGE SCUPPERS AND DECK DRAINS MUST BE CONVEYED THROUGH PIPES, PREFERABLY TO A POINT OFF RAILROAD PROPERTY. ALL HANDLING SHALL BE IN KEEPING WITH REQUIREMENTS OF NS "OVERHEAD GRADE SEPARATION DESIGN CRITERIS".
- 3. FOR ADDITIONAL NOTES AND DETAILS, SEE SHEET 89/100.



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DRAINAGE DETAILS - (3 BRIDGE NO. HAM-74-1908R 74 OVER MILL CREEK, RR & SPRING

HAM-75-3.84 ° N PID

91





3.84 HAM-75-Š PID

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(100)

ADD-IN SCUPPER.

APPROVED EQUAL.

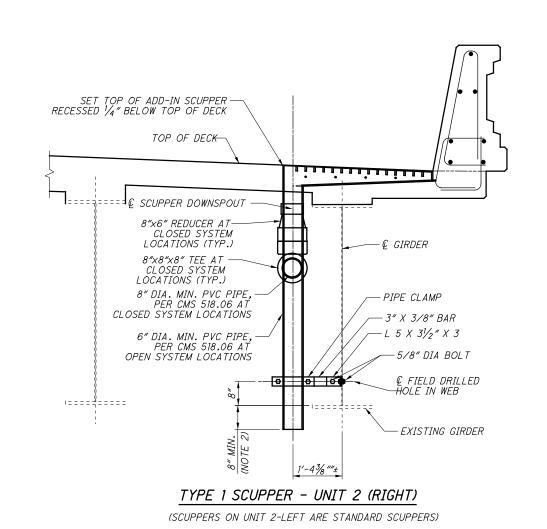
6. PIPE CLAMPS SHALL BE EATON B-LINE SERIES B3140-8 OR

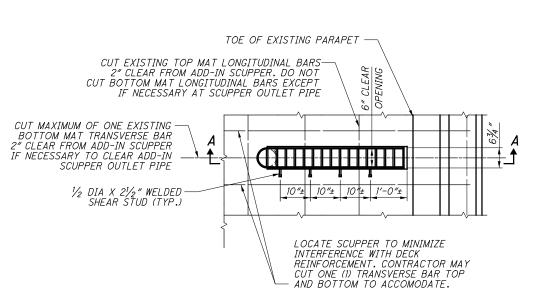
7. ALL COMPONENTS (ANGLES, BARS, CLAMPS, ANCHORS, BOLT COUPLERS, PIPE HANGERS, ETC.) SHALL BE GALVANIZED.

8. ALL BOLTS SHALL BE A325, TYPE 1 GALVANIZED. EACH ASSEMBLY SHALL INCLUDE BOLT, NUT, AND TWO WASHERS. TIGHTEN ACCORDING

9. FOR TYPE 1 SCUPPER LOCATIONS ON UNIT 1, SEE SHEETS 51/100 AND 52/100 .

10. FOR TYPE I SCUPPER LOCATIONS ON UNIT 2, SEE SHEETS 60/100 AND 61/100 .





TYPE 1 SCUPPER-PLAN

NOTES

1. FABRICATE TEMPORARY ADD-IN SCUPPERS FROM MIN. 3/8" THICK STEEL PLATE; ASTM A36 OR EQUAL.

4'-11/4"

VARIES .040'/FT TO .080'/FT

14 SPA. @ 3" = 3'-9" 11/2" x 1/2" BARS

SECTION A-A

4 - 1/2" DIA WELDED SHEAR

-STUDS ONE SIDE ONLY

- 2. PRIOR TO REMOVING PORTION OF DECK TO INSTALL ADD-IN SCUPPER, VERIFY THE SCUPPER WILL NOT CONFLICT WITH EXISTING
- 3. EXTEND DOWNDRAIN 8" MIN. BEYOND BOTTOM OF EXISTING GIRDER.
- 4. PROVIDE SPLASH PAD WHEN ERODIBLE MATERIAL IS LOCATED BELOW
- 5. PIPE HANGERS SHALL BE EATON B-LINE SERIES B3100-8 OR
- APPROVED EQUAL.

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SET TOP OF ADD-IN SCUPPER RECESSED 1/4" BELOW TOP OF DECK

TOP OF DECK

€ SCUPPER DOWNSPOUT

8"x6" REDUCER AT-CLOSED SYSTEM

LOCATIONS (TYP.)

8"x8"x8" TEE AT

CLOSED SYSTEM LOCATIONS (TYP.)

8" DIA. MIN. PVC PIPE; PER CMS 518.06 AT CLOSED SYSTEM LOCATIONS

6" DIA. MIN. PVC PIPE.

OPEN SYSTEM LOCATIONS

PER CMS 518.06 AT

1'-43/8 ""±

TYPE 1 SCUPPER - UNIT 1

€ GIRDER

- PIPE CLAMP

3" X 3/8" BAR

-L 5 X 31/2" X 3

5/8" DIA BOLT

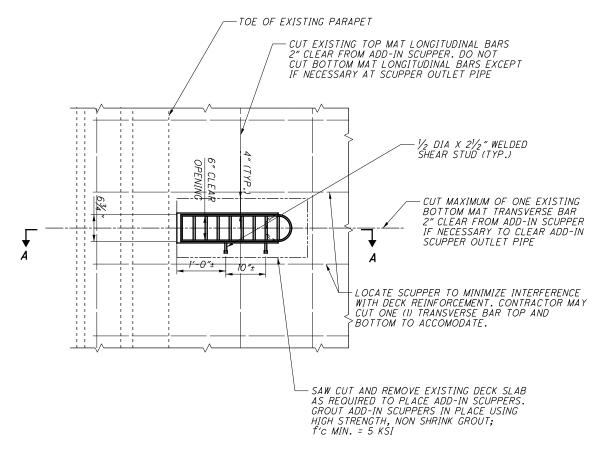
HOLE IN WEB

EXISTING BEAM

€ FIELD DRILLED

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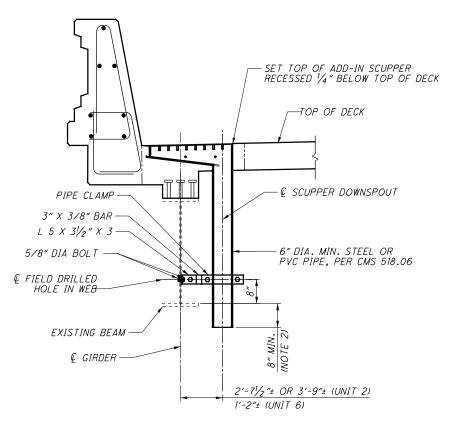
93 100



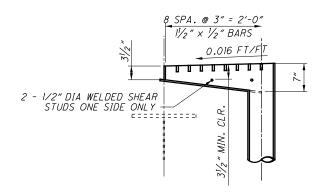
TYPE 2 SCUPPER-PLAN

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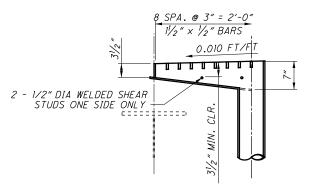
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TYPE 2 SCUPPER - UNIT 6 AND UNIT 2



SECTION A-A UNIT 6



SECTION A-A

NOTES

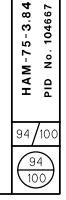
- 1. FABRICATE TEMPORARY ADD-IN SCUPPERS FROM MIN. 3/4" THICK STEEL PLATE; ASTM A36 OR EQUAL.
- 2. PRIOR TO REMOVING PORTION OF DECK TO INSTALL ADD-IN SCUPPER, VERIFY THE SCUPPER WILL NOT CONFLICT WITH EXISTING
- 3. EXTEND DOWNDRAIN 8" MIN. BEYOND BOTTOM OF EXISTING GIRDER.
- 4. PROVIDE SPLASH PAD WHEN ERODIBLE MATERIAL IS LOCATED BELOW ADD-IN SCUPPER.
- 5. PIPE HANGERS SHALL BE EATON B-LINE SERIES B3100-8 OR APPROVED EQUAL.
- 6. PIPE CLAMPS SHALL BE EATON B-LINE SERIES B3140-8 OR APPROVED EQUAL.
- 7. ALL COMPONENTS (ANGLES, BARS, CLAMPS, ANCHORS, BOLT COUPLERS, PIPE HANGERS, ETC.) SHALL BE GALVANIZED.
- 8. ALL BOLTS SHALL BE A325, TYPE I GALVANIZED. EACH ASSEMBLY SHALL INCLUDE BOLT, NUT, AND TWO WASHERS. TIGHTEN ACCORDING
- 9. FOR TYPE 2 SCUPPER LOCATIONS ON UNIT 2 SEE SHEET 61/100, FOR UNIT 6 SEE SHEET 68/100.

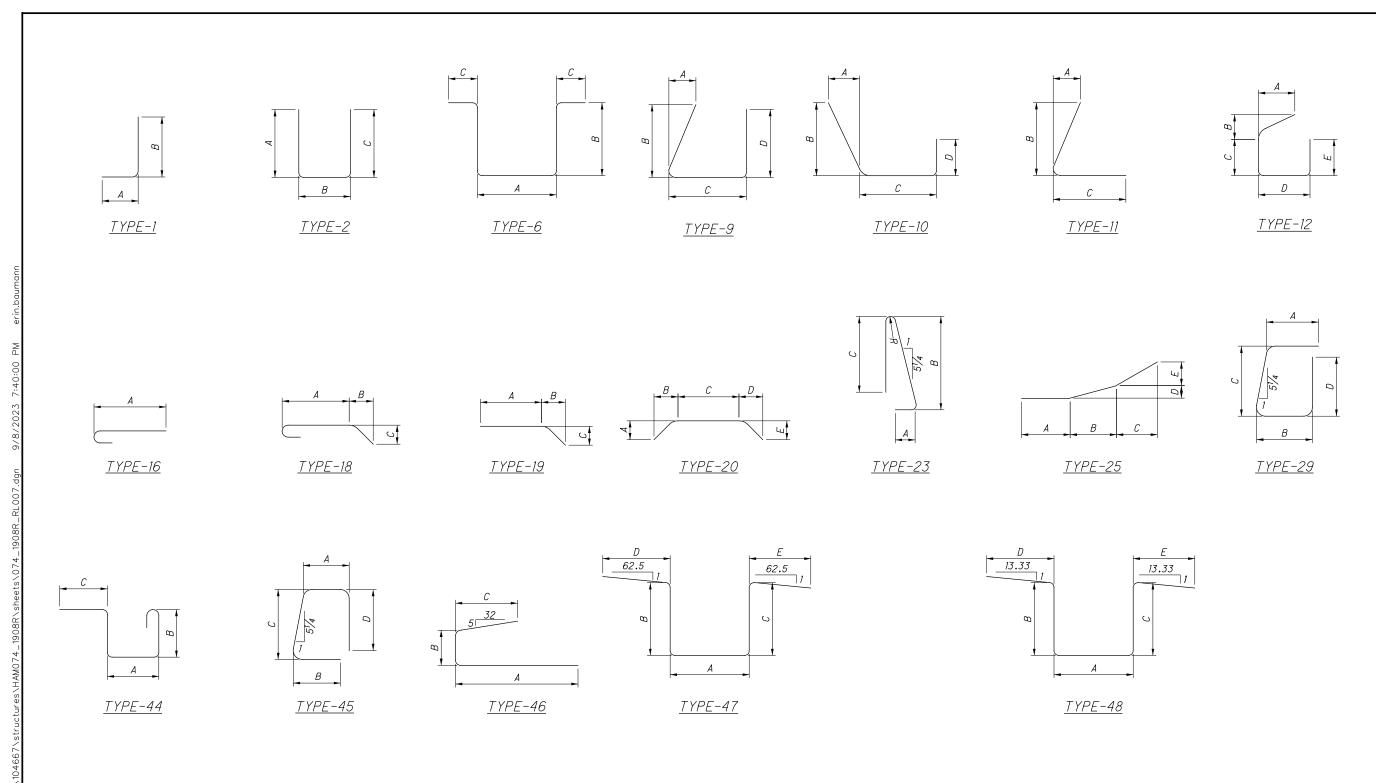


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REINFORCING STEEL LIST BRIDGE NO. HAM-74-1908R IR-74 OVER MILL CREEK, RR & SPRING (

PID No. 104667





TYPE-51

TYPE-52

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<u>TYPE-49</u>

<u>TYPE-50</u>

NOTES:

- 1. ALL REINFORCING SHALL BE EPOXY COATED.
- 2. BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH ONE OR TWO LETTER THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.

EXAMPLE: 2S501

2S = UNIT 2 SLAB 5 = #5 BAR 01 = BAR SEQUENCE NUMBER 1

- 3. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS NOTED OTHERWISE.
- 4. INC. INDICATED THE LENGTH INCREMENT FOR SERIES BARS.

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|----------------|--------------|------------|------|----------|------------------|------------|------------|--------|----------|-------|---------|----|---|-------------------|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | Ε | R | INC |
| | | | | | | | | UNIT 1 | SI AB | | | | | |
| 15401 | 766 | 418 | 399 | 1583 | 30'-0" | 31723 | STR | 0/12/ | | | | | | 1 |
| 15402 | 3 | | | 3 | 24'-0" | 48 | STR | | | | | | | |
| | 1 SR | | | 1 SR | 24'-2" | | | | | | | | | |
| 15403 | OF | | | OF | TO | 782 | STR | | | | | | | 3 3/4" |
| 10.40.4 | 39 | 00 | | 39 | 35′-10″ | 000 | CTD | | | | | | | |
| 1S404
1S405 | | 22 | 21 | 22
21 | 13'-9"
19'-6" | 202
274 | STR
STR | | | | | | | |
| 15405 | | | 21 | 21 | 19"-6" | 214 | SIR | | | | | | | |
| <i>1S406</i> | | | 1207 | 1207 | 9'-6" | 7660 | 2 | 8'-0" | 0'-7" | 1'-2" | | | | |
| 15407 | NC | T US | | 1201 | 0 0 | , , , , | _ | | " | , _ | | | | $A = \frac{1}{4}$ |
| | | | | | | | | | | | | | | C = 1/4" |
| 15408 | 1197 | | | 1197 | 13'-6" | 10795 | 2 | 10'-0" | 0'-7" | 3'-2" | | | | |
| 15409 | 1 | | | 1 | 11'-0" | 7 | STR | | <u> </u> | | | | | |
| 15410 | 1 | | | 1 | 16'-3" | 11 | STR | | | | | | | |
| 15411 | 1 | | | 1 | 15′-7″ | 10 | STR | | | | | | | |
| 15412 | 1197 | | | 1197 | 10′-5″ | 4688 | 16 | 10'-0" | | | | | | |
| 1S501 | 1198 | | | 1198 | 14′-6″ | 18118 | STR | | | | | | | |
| 15502 | 941 | | | 941 | 24'-3" | 23800 | STR | | | | | | | |
| 15503 | 941 | | | 941 | 19'-8" | 19302 | 16 | 19'-1" | | | | | | |
| 1S504
1S505 | 257 | T US | | 257 | 20'-11" | 5607 | 16 | 20'-6" | | | | | | + |
| 15505 | 2 SR | | ΕU | 2 SR | 3'-3" | | | | | | | | | |
| 1S506 | OF | | | 0F | TO | 158 | STR | | | | | | | 6'-1 1/4" |
| 10000 | 5 | | | 5 | 27'-0" | 100 | J 771 | | | | | | | 10 174 |
| <i>1S507</i> | | 694 | | 694 | 20′-7″ | 14899 | STR | | | | | | | |
| <i>1S508</i> | | 1324 | | 1324 | 20'-2" | 27849 | STR | | | | | | | |
| <i>1S509</i> | | | | | | | | | | | | | | |
| 15510 | | 128 | | 128 | 20′-10″ | 2781 | STR | | | | | | | |
| <i>1</i> S511 | | 128 | | 128 | 21′-1″ | 2815 | STR | | | | | | | |
| 15512 | | 130 | | 130 | 21′-5″ | 2904 | STR | | | | | | | |
| 15513 | NC |)T US | | | | | | | | | | | | |
| 1S514 | | | 960 | 960 | 16'-0" | 16020 | STR | | | | | | | |
| 1S515 | | | 56 | 56 | 16'-3" | 949 | STR | | | | | | | |
| | | 2 SR | | 2 SR | 6'-9" | | | | | | | | | 7. |
| 1S516 | | OF | | OF | TO | 114 | STR | | | | | | | 5'-3 3/4' |
| <i>1S517</i> | NC | 4
)T US | · | 4 | 20′-7″ | | | | | | | | | |
| 1S518 | | T US | | | | | | | | | | | | |
| 15519 | | 627 | | 2373 | 30'-0" | 74251 | STR | | | | | | | |
| 15520 | 4 | | | 4 | 5′-6″ | 23 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| 1S521 | | T US | ED | | | | | | | | | | | |
| 1CE 22 | 1 SR | | | 1 SR | 5′-6″ | FOC | CTD | | - | | | | | 0/ 2 3/ |
| 15522 | <i>OF</i> 51 | | | 0F
51 | TO
17'-0" | 598 | STR | | - | | - | - | | 0'-2 3/4' |
| 1S523 | 31 | 29 | | 29 | 22'-9" | 688 | STR | | | | | | | |
| 1S524 | | | 27 | 27 | 29'-0" | 817 | STR | | | | | | | |
| 15525 | 257 | | | 257 | 26'-8" | 7150 | STR | | | | | | | |
| <i>1</i> 5526 | 941 | | | 941 | 19'-1" | 18730 | STR | | | | | | | |
| 1S527 | 257 | | | 257 | 20'-2" | 5406 | STR | | | | | | | |
| 1S528 | | | 960 | 960 | 16'-0" | 16020 | 16 | 15′-5″ | | | | | | |
| <i>1S529</i> | | | 56 | 56 | 16′-3″ | 949 | 16 | 15′-8″ | | | | | | |
| 1S530 | 8 | 8 | 8 | 24 | 5′-10″ | 146 | 1 | 3'-0" | 3'-0" | | | | | |
| 1S531 | 1 | | | 1 | 12'-6" | 13 | STR | | | | | | | |
| 1S532 | 1 | | | 1 | 17′-3″ | 18 | STR | | | | | | | |
| <i>1</i> 5533 | 1 | | | 1 | 16′-1″ | 17 | STR | | | | | | | |
| 1S534 | | T US | | | | | | | | | | | | |
| 1S535 | NC | T US | Łυ | | | | | | | | | | | + |
| | NC | T US | ED | | | | | | - | | - | | | |
| 1S536 | | | 1-11 | | | | | | | | | | | |

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|----------------|------|-------|------|----------|---------|--------|------|---------|------------|-----------|--------|--------|---|-----|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | E | R | INC |
| | | | | | | | | A | <i>B</i> | L | U | | л | INC |
| | | | | | | | | UNIT 1 | SLAB | | | | | |
| <i>1</i> 5537 | | | 64 | 64 | 16′-6″ | 1101 | STR | | | | | | | |
| 1S538 | | | 64 | 64 | 16'-6" | 1101 | 16 | 15′-11″ | | | | | | |
| 1S539 | | | 64 | 64 | 16′-9″ | 1118 | STR | | | | | | | |
| 1S540 | | | 64 | 64 | 16′-9″ | 1118 | 16 | 16'-2" | | | | | | |
| 15541 | | | 65 | 65 | 17′-0″ | 1153 | STR | | | | | | | |
| 1S542 | | | 65 | 65 | 17'-0" | 1153 | 16 | 16′-5″ | | | | | | |
| 1S543 | NC | L US | | | 77 0 | 1100 | 10 | 70 0 | | | | | | |
| 1S544 | | OT US | | | | | | | | | | | | |
| 15545 | 1,10 | 2 | | 2 | 19'-0" | 40 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| 1S546 | _ | T US | ED | | | | | | | | | | | |
| 1S547 | 6 | | | 6 | 15′-9″ | 99 | STR | | | | | | | |
| 1S548 | 4 | | | 4 | 10′-6″ | 44 | STR | | | | | | | |
| 1S549 | 2 | 2 | 2 | 6 | 25'-0" | 156 | STR | | | | | | | |
| 1S550 | | OT US | | | | | | | | | | | | |
| 15551 | NC | T US | ED | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1S552 | 1007 | | 647 | 2458 | 6'-3" | 16023 | 48 | 1'-4" | 0'-11 1/4" | 0'-10" | 1′-10″ | 1′-10″ | | |
| 1S553 | | 559 | | 559 | 5′-9″ | 3352 | 48 | 1'-4" | 0'-8 1/4" | | 1′-10″ | 1′-10″ | | |
| 1S554 | | 577 | | 577 | 5′-11″ | 3561 | 48 | 1'-4" | 0'-9 1/2" | | 1′-10″ | 1′-10″ | | |
| 1S555 | | 469 | | 469 | 6′-5″ | 3139 | 48 | 1'-4" | 1'-0 1/4" | 0'-11" | 1′-10″ | 1′-10″ | | |
| 15556 | 857 | | | 857 | 6'-7" | 5885 | 48 | 1'-4" | 1'-1 1/2" | 1'-0 1/4" | 1′-10″ | 1′-10″ | | |
| 1S557 | 778 | | | 778 | 6'-0" | 4869 | 48 | 1'-4" | 0'-10" | 0'-8 3/4" | 1′-10″ | 1′-10″ | | |
| 1S558 | 364 | | | 364 | 5′-9″ | 2183 | 48 | 1'-4" | 0'-8 1/2" | | 1′-10″ | 1′-10″ | | |
| 1S559 | 397 | | | 397 | 6'-1" | 2519 | 48 | 1'-4" | 0'-10 1/2" | 0'-9 1/4" | 1'-10" | 1'-10" | | |
| 1S560 | 874 | | | 874 | 6'-7" | 6001 | 48 | 1'-4" | 1'-1 1/4" | 1'-0" | 1'-10" | 1'-10" | | |
| 1S561 | 270 | | | 270 | 5'-7" | 1572 | 48 | 1'-4" | 0'-7 1/2" | | 1'-10" | 1'-10" | | |
| 15562 | | 557 | | 557 | 5'-10 " | 3389 | 48 | 1'-4" | 0'-8 3/4" | 0'-7 1/2" | 1'-10" | 1'-10" | | |
| 1S601 | 246 | 126 | 120 | 492 | 30′-0″ | 22170 | STR | | | | | | | |
| 15602 | 41 | 21 | 20 | 82 | 23'-3" | 2863 | STR | | | | | | | |
| 1S603 | 41 | 21 | 20 | 82 | 35′-3″ | 4342 | STR | | + | | | + | | |
| 15603
15604 | 41 | 21 | 20 | 82
82 | 18'-3" | 2248 | STR | | 1 | | | | | |
| 13004 | 1 41 | 41 | 20 | | B-TOTAL | 91,199 | SIR | | | | | | | |

REINFORCING STEEL LIST (2 OF
BRIDGE NO. HAM-74-1908R
IR-74 OVER MILL CREEK, RR & SPRING GROVE AVE

HAM-75-3.84 PID No. 104667

S40 WHIE POND DR. SUITE E AKRON, OH 44320

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NUMBER **DIMENSIONS** LENGTH | WEIGHT MARK 2 3 | TOTAL D Ε R В С INC Α UNIT 2 SLAB 30'-0" 813 635 64 30300 STR 25401 *1512* 6'-6" 43 25402 10 25403 13'-9" STR 25404 18'-9" 13 STR 25405 7′-0″ STR 25406 10'-9" 8 25407 12'-8" STR 25408 12'-3" 8 STR 25409 10'-0" STR STR 25410 32'-0" 21 STR 12'-6" 25411 STR 25412 19'-3" 13 STR STR 25413 24'-6" 16 25414 18'-0" 12 STR 17′-7″ 12 25415 25416 14'-5" 10 STR 25417 17′-1″ 11 STR 25418 7′-8″ STR STR 25419 24'-8" 16 12'-5" 25420 STR 25421 13'-0" STR STR STR 25422 26'-2" 17 25423 10'-8" 15 25424 22'-8" 23 STR 25425 1 34′-3″ 25426 17′-3″ 12 STR STR 25427 1 10'-3" 20'-3" 14 STR 25428 STR 25429 5 16′-5″ 55 25430 33′-0″ 242 STR 11 11 25431 16 16 24'-9" 265 25432 NOT USED 12 STR 25433 8′-5″ 67 1 SR 1 SR 3'-4" 25434 OF OF TO STR 0'-9 1/2" 4'-11" 25435 9'-1" 24 STR 25436 NOT USED 25437 NOT USED 25438 NOT USED 25439 NOT USED 55 25440 11′-8″ 7′-6″ 1 SR 10" 1 SR 5′-8″ Incr A = 0'-6" Incr C = 0'-6" OF OF TO 25441 TO TO 11'-8" 7′-6″ 3'-10" 25442 231 559 790 5′-8″ 2990 2 4'-6" 0'-7" 0'-10" 25443 | 890 | 890 9′-8″ 5747 46 6'-6" 0'-7" 2'-10" SUB-TOTAL 40,131

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|----------------|------------|------------|------------|------------|------------------|--------------|-----------|--------------|-------|----|----------|----|---|----------|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | Ε | R | INC |
| | | | | | | | | UNIT 2 | SI AB | | _ | _ | | + |
| 2S501 | 263 | | | 263 | 23'-7" | 6469 | 16 | 23'-0" | | | | | | |
| 25502 | 294 | | | 294 | 17'-3" | 5290 | STR | 23 0 | | | | | | |
| 25503 | 270 | | | 270 | 20'-6" | 5773 | STR | | | | | | | |
| 25504 | 132 | | | 132 | 18'-6" | 2547 | STR | | | | | | | |
| 25505 | 139 | | | 139 | 30′-7″ | 4434 | 16 | 30′-0″ | | | | | | |
| 00500 | 100 | | | 100 | 07/ 0# | 0044 | CTD | | | | | | | |
| 2S506
2S507 | 402
328 | | | 402
328 | 23'-0"
26'-1" | 9644
8923 | STR | 25′-6″ | | | | | | |
| 2S507
2S508 | 292 | | | 328
292 | 19'-1" | 5812 | 16
STR | 250 | | | | | | |
| 2S509 | 467 | | | 467 | 21'-6" | 10472 | STR | | | | | | | + |
| 2S510 | 278 | | | 278 | 14'-6" | 4204 | STR | | | | | | | |
| 23010 | 210 | | | 210 | 1770 | 7207 | 3771 | | | | | | | |
| 25511 | 327 | | | 327 | 22'-6" | 7674 | STR | | | | | | | |
| 25512 | 139 | | | 139 | 28'-7" | 4144 | 16 | 28'-0" | | | | | | |
| 25513 | 139 | | | 139 | 24'-3" | 3516 | STR | | | | | | | |
| | 1 SR | | | 1 SR | 3'-0" | | | | | | | | | |
| 2S514 | OF | | | OF | TO | 1288 | STR | | | | | | | 0'-8 3/4 |
| | 55 | | | 55 | 41′-11″ | | | | | | | | | |
| 25515 | 6 | 420 | | 426 | 15′-6″ | 6887 | STR | | | | | | | |
| 2S516 | | 125 | | 125 | 14'-3" | 1858 | STR | | | | | | | |
| 2S516
2S517 | | 250 | | 250 | 12'-3" | 3194 | STR | | | | | | | + |
| 2S518 | | 125 | | 125 | 18'-8" | 2434 | STR | | | | | | | |
| 2S519 | | 125 | | 125 | 16'-4" | 2129 | STR | | | | | | | |
| 2S520 | | 363 | | 363 | 20'-9" | 7856 | STR | | | | | | | |
| 20020 | | | | | | ,,,,,, | | | | | | | | |
| 25521 | | 340 | | 340 | 18'-0" | 6383 | STR | | | | | | | |
| 2S522 | | 170 | | 170 | 20′-6″ | 3635 | 16 | 19′-11″ | | | | | | |
| 25523 | | 170 | | 170 | 13'-3" | 2349 | STR | | | | | | | |
| 2S524 | | 340 | | 340 | 25'-4" | 8984 | STR | | | | | | | |
| 2S525 | | 170 | | 170 | 22'-10" | 4049 | 16 | 22'-3" | | | | | | |
| 25526 | | 234 | | 234 | 24'-3" | 5919 | STR | | | | | | | |
| 2S527 | | 112 | | 112 | 21'-10" | 2550 | 16 | 21′-3″ | | | | | | |
| 25528 | | 112 | | 112 | 25'-6" | 2979 | STR | | | | | | | |
| 25529 | | 108 | | 108 | 23'-4" | 2628 | 16 | 22'-9" | | | | | | |
| 25530 | | 112 | | 112 | 27'-0" | 3154 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| | | 1 SR | | 1 SR | 8'-2" | | | | | | | | | |
| 25531 | | OF | | OF | TO | 696 | STR | | | | | | | 0'-4" |
| 00570 | | 44 | | 44 | 22'-2" | 107 | CTC | | | | | | | |
| <i>2S532</i> | - | 16
2 SR | | 16
2.5D | 11'-10"
2'-9" | 197 | STR | | | | | | | + |
| 2S533 | | 2 SR
OF | | 2 SR
OF | 7'-9"
TO | 126 | STR | | | | | | | 0'-8 3/4 |
| 20000 | | 10 | | 10 | 9'-4" | 120 | JIK | | | | | | | 0 -0 74 |
| 25534 | | ,,, | 7 | 7 | 16'-10" | 123 | 16 | 16'-3" | | | | | | |
| 2S535 | | | 7 | 7 | 16'-3" | 119 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| 00575 | 1 | | 1 SR | 1 SR | 13'-10" | | | 13'-3" | | | | | | 1 |
| 25536 | | | OF 7 | OF 7 | TO 100 | 110 | 16 | TO
15'-9" | | | | | | 0′-5″ |
| | - | | 7
1 CD | 7 | 16'-4" | | | 15'-9" | | | | | | + |
| 2S537 | 1 | | 1 SR
OF | 1 SR
OF | 13'-3"
TO | 106 | STR | | | | | | - | 0'-5" |
| 23331 | | | 7 | 7 | 15'-9" | 100 | 1318 | | | | | | | 1 0 -5" |
| 2S538 | | | 231 | 231 | 13'-10" | 3333 | 16 | 13'-3" | | | | | | + |
| 2S539 | | | 231 | 231 | 13'-3" | 3192 | STR | ,,,,,, | | | <u> </u> | | | + |
| | | | 2 SR | 2 SR | 6'-0" | 2.22 | 1 | | | | | | | + |
| 2S540 | | | OF | OF . | TO | 95 | STR | | | | | | | 1'-6 3/4 |
| | | | 5 | 5 | 12'-3" | | | | | | | | | 1 17 |
| | - | | | SU | B-TOTAL | 155,275 | | | | | | | | |

NOTES:

1. FOR REINFORCING NOTES SEE SHEET 94/100.

SHOW WHITE POWE DAY.

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REINFORCING S
BRIDGE N
IR-74 OVER MILL CREE

HAM-75-3.84 PID No. 104667



| | | ٨ | IUMB | ER | | | , E | | | D1 | MENSIO | V <i>S</i> | | |
|----------------|--------------|------------|------|-----------------|-------------------|------------|------------|---------------|-----------|------------|--------|------------|---|------------|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | Ε | R | INC |
| | | | | | | | | UNIT 2 | SLAB | | | | | |
| 25541 | 1103 | 952 | 52 | 2107 | 30'-0" | 65928 | STR | | | | | | | |
| 2S542 | 32 | | | <i>32</i> | 13′-8″ | 456 | STR | | | | | | | |
| 25543 | 1 | | | | 20'-9" | 22 | STR | | | | | | | |
| 2S544
2S545 | 5
2 | 2 | | 7
2 | 9'-2"
25'-0" | 67
52 | STR
STR | | | | | | | |
| 23040 | | | | | 23 0 | 52 | 3111 | | | | | | | |
| 25546 | 1 | | | 1 | 16'-7" | 17 | STR | | | | | | | |
| 2S547 | 1 | | | 1 | 32′-3″ | 34 | STR | | | | | | | |
| 2S548 | 1 | 2 | | 3 | 18'-2" | 57 | STR | | | | | | | |
| 2S549
2S550 | 1 | | | 1 | 31′-9″ | 33 | STR | | | | | | | |
| 25550 | 1 | | | 1 | 17′-1″ | 18 | STR | | | | | | | |
| 2S551 | 3 | | | 3 | 14'-7" | 46 | STR | | | | | | | |
| 2S552 | 1 | | | 1 | 8'-0" | 8 | STR | | | | | | | |
| 2S553 | 1 | | | 1 | 16′-1″ | 17 | STR | | | | | | | |
| 25554 | 1 | _ | | 1 | 19'-0" | 20 | STR | | | | | | | |
| 2S555 | | 7 | | 7 | 18′-7″ | 136 | STR | | | | | | | |
| 2S556 | 5 | | | 5 | 23′-0″ | 120 | STR | | | | | | | |
| <i>2S557</i> | | T US | ED | | 25 5 | 723 | | | | | | | | |
| 2S558 | | 1 | | 1 | 20′-1″ | 21 | STR | | | | | | | |
| <i>2S559</i> | | 1 | | 1 | 11'-2" | 12 | STR | | | | | | | |
| 25560 | | 1 | | 1 | 16′-5″ | 17 | STR | | | | | | | |
| 25561 | | 1 | | 1 | 31′-2″ | 33 | STR | | | | | | | |
| 2S562 | | 1 | | 1 | 17'-6" | 18 | STR | | | | | | | |
| 25563 | NC | T US | ED | · | | | 1 | | | | | | | |
| 2S564 | | 1 | | 1 | 15′-8″ | 16 | STR | | | | | | | |
| 2S565 | | 1 | | 1 | 11'-8" | 12 | STR | | | | | | | |
| 25566 | | 1 | | 1 | 22'-9" | 24 | STR | | | | | | | |
| 2S567 | 2 | 1 | | 3 | 33'-5" | 105 | STR | | | | | | | |
| 2S568 | _ | 1 | | 1 | 16'-3" | 17 | STR | | | | | | | |
| 2S569 | | 6 | | 6 | 18′-5″ | 115 | STR | | | | | | | |
| <i>2S570</i> | | 14 | | 14 | 40'-0" | 584 | STR | | | | | | | |
| 00571 | | 1 | | | 15/ 0// | 10.5 | CTD | | | | | | | |
| 2S571
2S572 | 4 | 10 | | 8
10 | 15'-0"
13'-0" | 125
136 | STR
STR | | | | | | | |
| 2S573 | | 10 | 20 | 20 | 33'-0" | 688 | STR | | | | | | | |
| | | | 1 SR | 1 SR | 3'-1" | | | | | | | | | |
| 2S574 | | | OF | OF | TO | 17 | STR | | | | | | | 0'-7 3/4" |
| 00575 | | | 4 | 4 | 5′-0″ | *** | | 7 | 7. 0." | | | | | |
| 2S575 | 4 | 10 | 4 | 18 | 5′-10″ | 110 | 1 | 3′-0″ | 3'-0" | | | | | |
| 2S576 | | | 2 | 2 | 12'-8" | 26 | 10 | 5'-1 1/4" | 5'-1 1/4" | 2'-7 3/4" | 3'-0" | | | |
| 25577 | 6 | 6 | 2 | 14 | 5'-11" | 86 | 19 | 3'-0" | 0'-10" | 2'-11" | | | | |
| 2S578 | | 2 | | 2 | 5′-10″ | 12 | 11 | 0'-10" | 2'-11" | 3'-0" | | | | |
| 2S579 | 2 | | | 2 | 6'-9" | 14 | 10 | 2'-5" | 1′-9″ | 0'-11 1/2" | 3′-0″ | | | |
| 20500 | 1 SR | | | 1 SR | 3'-7" | 1704 | 16 | 3'-0" | | | | | | 0/ 0 3/ // |
| 2S580 | <i>OF</i> 55 | | | <i>OF</i>
55 | TO
42'-6" | 1324 | 16 | TO
41'-11" | | | | | | 0'-8 3/4" |
| | 00 | | | | ,,, | | | '' '' | | | | | | |
| 25581 | | 6 | | 6 | 14'-0" | 88 | 19 | 12′-9″ | 1'-0" | 0'-9" | | | | |
| | 1 SR | | | 1 SR | 19'-2" | | | | | | | | | |
| 2S582 | OF _ | | | OF . | TO | 107 | STR | | | | | | | 0'-8" |
| | 5
1 SR | | | 5
1 SR | 21'-10"
15'-7" | | | | - | | | | | |
| 25583 | OF | | | OF | 75°-7" | 88 | STR | | | | | | | 0'-8" |
| | 5 | | | 5 | 18'-3" | | 1 | | | | | | | - |
| | | 1 SR | | 1 SR | 15′-9″ | | | | | | | | | |
| 2S584 | | OF | | OF | TO | 90 | STR | | | | | | | 0'-8 1/2" |
| | | 5 | | 5 | 18'-7" | | - | | | | | | | |
| 25585 | | 1 SR
OF | | 1 SR
OF | 18'-3"
TO | 103 | STR | | | | | | | 0'-8 1/2" |
| 23363 | | 5 | | <i>OF</i> | 21'-3" | 103 | SIR | | | | | | | 0 -0 /2" |
| | | | | | _, _ | | | | | | | | | |
| | | | | SU | B-TOTAL | 71,019 | | | | | | | | |

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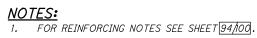
| | | | <i>IUMB</i> | ER | | | ٦Ę | | | D1 | MENSIO | NS | | |
|------------------|------|-------|-------------|------------|----------|-------------|----------|--------|------------|------------|--------|-----------|---|-----------|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | E | R | INC |
| | | | | | | | | UNIT 2 | SI AB | | | | | |
| | | 1 SR | | 1 SR | 12'-3" | | | | | | | | | |
| 25586 | | OF | | OF OF | TO | 381 | STR | | | | | | | 0'-9 1/4" |
| 20000 | | 19 | | 19 | 26'-3" | 007 | 0771 | | | | | | | 0 0 /4 |
| | | 2 SR | | 2 SR | 12'-0" | | | | | | | | | |
| 2S587 | | OF | | OF | TO | 1084 | STR | | | | | | | 0'-8 3/4" |
| | | 25 | | 25 | 29'-7" | | | | | | | | | 1 77 |
| 25588 | 1 | | | 1 | 30′-3″ | 32 | STR | | | | | | | |
| 2S589 | 5 | | | 5 | 28'-0" | 146 | STR | | | | | | | |
| 25590 | 53 | 39 | | 92 | 25'-0" | 2399 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| 2S591 | 55 | 64 | | 119 | 20'-0" | 2482 | STR | | | | | | | |
| 2S592 | 10 | 16 | 16 | 42 | 22'-0" | 964 | STR | | | | | | | |
| 2S593 | | T US | | | | | | | | | | | | |
| 2S594 | NC |)T US | ED | | | | | | | | | | | |
| 25595 | | 210 | | 210 | 5′-3″ | 1150 | 49 | 1′-5″ | 0'-8 3/4" | 0'-8 1/4" | 1′-10″ | 1'-1 1/2" | | |
| 25596 | | 928 | 247 | 1175 | 6'-1" | 7455 | 49 | 1′-5″ | 0'-9 1/2" | 0'-9" | 1′-10″ | 1′-10″ | | |
| 25597 | | 400 | | 400 | 6'-5" | 2677 | 49 | 1′-5″ | 0'-11 1/4" | 0'-10 3/4" | 1'-10" | 1'-10" | | |
| 25598 | | 306 | | 306 | 6'-9" | 2154 | 49 | 1′-5″ | 1'-1 3/4" | 1'-1 1/4" | 1'-10" | 1'-10" | | |
| 25599 | | 218 | | 218 | 6'-7" | 1497 | 49 | 1′-5″ | 1'-0 3/4" | 1'-0 1/4" | 1′-10″ | 1'-10" | | |
| 255100 | | 144 | | 144 | 7'-2" | 1076 | 49 | 1′-5″ | 1'-4" | 1'-3 1/2" | 1′-10″ | 1'-10" | | |
| | | | | | | | | | | | | | | |
| 2S5101 | 1235 | 326 | | 1561 | 5′-11″ | 9633 | 49 | 1′-5″ | 0'-8 3/4" | 0'-8 1/4" | 1′-10″ | 1'-10" | | |
| 255102 | | 308 | | 308 | 6'-5" | 2061 | 49 | 1′-5″ | | | 1′-10″ | 1'-10" | | |
| 2S5103 | | 29 | | 29 | 7′-0″ | 212 | 49 | 1′-5″ | 1'-3 1/4" | 1'-2 3/4" | 1'-10" | 1'-10" | | |
| 2S5104 | | 88 | | 88 | 7′-5″ | 681 | 49 | 1′-5″ | 1'-5 3/4" | 1'-5 1/4" | 1'-10" | 1'-10" | | |
| 2S5105 | | 90 | | 90 | 7′-11″ | 743 | 49 | 1′-5″ | 1'-8 3/4" | 1'-8 1/4" | 1′-10″ | 1′-10″ | | |
| 205120 | | 140 | | 140 | 5'-9" | 0.40 | 10 | 1′-5″ | 0/ 7 3/ // | 0'-7 1/4" | 1′-10″ | 1′-10″ | | |
| 2S5106
2S5107 | | 442 | | 140
442 | 6'-3" | 840
2881 | 49 | 1′-5″ | | 0'-10 1/4" | 1'-10" | 1'-10" | | |
| 2S5107
2S5108 | | 65 | | 65 | 6'-9" | 458 | 49
49 | 1'-5" | 1'-1 3/4" | | 1'-10" | 1'-10" | | |
| 2S5108
2S5109 | | 215 | | 65
215 | 7'-2" | 1607 | 49 | 1'-5" | 1'-7 3/4" | 1'-3 3/4" | 1'-10" | 1'-10" | | |
| 2S5109
2S5110 | 209 | 210 | | 209 | 6'-6" | 1417 | 49 | 1′-5″ | 1'-0" | 0'-11 1/2" | 1'-10" | 1'-10" | | |
| 200110 | | | | 200 | | ,,,, | 1,0 | , 0 | 1 | 11/2 | , ,0 | 1 , ,, | | |
| 255111 | 2102 | | | 2102 | 6′-5″ | 14068 | 49 | 1′-5″ | 0'-11 1/2" | | 1′-10″ | 1'-10" | | |
| 2S5112 | 67 | 67 | | 134 | 3′-5″ | 472 | 50 | 0'-6" | 0'-8 1/2" | 1′-10″ | | | | |
| 2S5113 | 214 | 214 | | 428 | 3'-11" | 1748 | 50 | 0′-6″ | 0'-11 3/4" | | | | | |
| 2S5114 | 23 | | | 23 | 9'-8" | 232 | 46 | 6′-6″ | 0'-7" | 2'-10" | | | | |
| 255115 | 2 | | | 2 | 12′-5″ | 26 | 51 | 2'-0" | 1′-9″ | 6′-0″ | 1′-9″ | 2'-0" | | |
| 255116 | 69 | | | 69 | 6'-2" | 444 | 52 | 1′-5″ | 1′-5″ | 2'-0" | 1'-4" | | | |
| 230110 | 1 00 | | | | IB-TOTAL | 61,020 | 02 | , , | 1 / 0 | | , 7 | | | |

PETER POND PR. SUITE E AKRON, OH 44370

REINFORCING STEEL LIST (4 OF
BRIDGE NO. HAM-74-1908R
IR-74 OVER MILL CREEK, RR & SPRING GROVE AVE

HAM-75-3.84 PID No. 104667

97



| MADK | | ^ | IUMB | ER | LENGTU | WEIGHT | TYPE | | | DI | MENSIO | NS | | |
|----------------|------------|------------|------|------------|------------------|--------------|------------|------------|-----------|--------|--------|----|---|--------|
| MARK | SI | 52 | S3 | TOTAL | LENGTH | WEIGHT | 77 | A | В | С | D | Ε | R | INC |
| | | | | | | | | UNIT 6 | S SLAB | | | 1 | | |
| 65401 | 257 | 156 | | 413 | 30'-0" | 8277 | STR | | | | | | | |
| 6S402 | | T US | ED | | 404.0# | | 0.70 | | | | | | | |
| 6S403
6S404 | 1 | | | 1 | 12'-0"
24'-9" | 8
17 | STR
STR | | | | | | | |
| 6S405 | 1 | | | 1 | 7'-7" | 5 | STR | | | | | | | |
| | | | | · | | - | | | | | | | | |
| 65406 | | T US | ED | | | | | | | | | | | |
| 65407 | 2 | | | 2 | 26'-3"
9'-2" | 36 | STR | 1′-10″ | 0/ 7// | 7′-0″ | | | | |
| 6S408
6S409 | 105 | | | 48
105 | 10'-7" | 294
742 | 2 | 2'-3" | 0'-7" | 8'-0" | | | | |
| 6S410 | 105 | | | 105 | 11'-1" | 777 | 2 | 2'-8" | 0'-7" | 8'-0" | | | | |
| | | | | | | | | | | | | | | |
| 65411 | 1 | | | 1 | 15′-10″ | 11 | STR | | | | | | | |
| 65412 | 1 | | | 1 | 19'-5" | 13 | STR | | | | | | | 1 |
| 6S413
6S414 | 105 | | | 1
105 | 11'-3"
13'-7" | 953 | STR
2 | 3'-2" | 0'-7" | 10'-0" | | | | |
| 6S414
6S415 | 105 | 75 | | 75 | 12'-4" | 953
618 | 2 | 2'-0" | 0'-7" | 10'-0" | | - | | 1 |
| 22 110 | | , , | | , , | / | 0,0 | † <u> </u> | | - ' | | | | | |
| 65416 | | 105 | | 105 | 12′-7″ | 883 | 2 | 2'-3" | 0'-7" | 10′-0″ | | | | |
| 65417 | | 105 | | 105 | 12'-11" | 906 | 2 | 2'-7" | 0'-7" | 10'-0" | | | | |
| 65418 | | 82 | | 82 | 13'-2" | 721 | 2 | 2'-10" | 0'-7" | 10′-0″ | | | | |
| 6S501 | 701 | 228 | | 622 | 30'-0" | 19462 | STR | | | | | | | 1 |
| 6S502 | 53 | 34 | | 87 | 32'-6" | 2949 | STR | | | | | | | + |
| 6S503 | 1 | | | 1 | 14'-6" | 15 | STR | | | | | | | |
| 6S504 | 210 | | | 210 | 17′-10″ | 3906 | STR | | | | | | | |
| <i>6S505</i> | 210 | | | 210 | 21′-5″ | 4691 | STR | | | | | | | |
| 00500 | 105 | | | 105 | 07/ 0# | 0574 | CTD | | | | | | | - |
| 6S506
6S507 | 105
2 | 2 | | 105
4 | 23'-6"
5'-7" | 2574
23 | STR
11 | 1'-8 3/, " | 2'-5 1/2" | 3′-0″ | | | | |
| 6S508 | 105 | | | 105 | 17'-4" | 1898 | STR | 1 0 /4 | 2 3 /2 | 3 0 | | | | |
| 65509 | | 48 | | 48 | 19'-8" | 985 | 16 | 19′-1″ | | | | | | |
| 6S510 | | 48 | | 48 | 19′-1″ | 955 | STR | | | | | | | |
| | | 010 | | | 10/14 | | 1.0 | 101.0% | | | | | | |
| 6S511
6S512 | | 210
210 | | 210
210 | 19'-1"
18'-6" | 4180
4052 | 16
STR | 18′-6″ | | | | | | |
| 6S513 | NC | T US | FD. | 210 | 10 -0 | 4032 | 311 | | | | | | | |
| 6S514 | | T US | | | | | | | | | | | | |
| | 1 SR | | | 1 SR | 4'-11" | | | 4'-4" | | | | | | |
| 6S515 | OF | | | OF | TO | 1051 | 16 | TO | | | | | | 83/16" |
| | 48 | | | 48 | 37′-1″ | | | 36′-6″ | | | | | | |
| | 1 SR | | | 1 SR | 5′-3″ | | | | | | | | | |
| 6S516 | OF | | | OF | TO | 1045 | STR | | | | | | | 8" |
| | 48 | | | 48 | 36′-6″ | | | | | | | | | |
| | 1 SR | | | 1 SR | 2'-4" | | | 1'-9" | | | | | | |
| 6S517 | OF 10 | | | OF 10 | TO | 909 | 16 | TO | | | | | | 8" |
| | 48
1 SR | | | 48
1 SR | 34'-0"
1'-9" | | 1 | 33′-5″ | | | | - | | 1 |
| 6S518 | OF | | | OF | 7 - 9
TO | 880 | STR | | | | | | | 8" |
| | 48 | | | 48 | 33′-5″ | | 1 | | | | | | | 1 |
| | | 1 SR | | 1 SR | 3′-7″ | | | 3′-0″ | | | | | | |
| <i>6S519</i> | | OF 07 | | OF | TO | 260 | 16 | TO | | | | | | 7%6" |
| | | 23
1 SR | | 23
1 SR | 16'-11"
3'-0" | | 1 | 17′-7″ | | | | | | 1 |
| 6S520 | | OF | | OF | TO | 247 | STR | | | | | | | 8" |
| 33320 | | 23 | | 23 | 17'-7" | 211 | 3111 | | | | | | | 1 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | | 1 |
| | | | | | | | + | | | | | | | |
| | | | | | | | 1 | | | | | | | 1 |
| | | | | | | | 1 | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | SU | B-TOTAL | 64,351 | | | | | | | | |

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| State | | | ^ | IUMB | ER | , 5.10 T.1 | WETOUT | 3.5 | | | D1 | MENSIO | NS | | |
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| | MARK | SI | 52 | S3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | E | R | INC |
| SSS2 OF | | | | | | | | | UNIT 6 | SLAB | | | | | |
| | | | 1 SR | | 1 SR | 2'-8" | | | 2'-1" | | | | | | |
| | 6S521 | | OF | | OF | TO | 310 | 16 | TO | | | | | | 73/4" |
| SSS22 | | | 27 | | 27 | 19′-5″ | | | 18′-10″ | | | | | | |
| SS524 | | | 1 SR | | 1 SR | 2'-1" | | | | | | | | | |
| SSS23 | <i>6S522</i> | | | | OF | | 294 | STR | | | | | | | 73/4" |
| SSS24 8 | | | 27 | | 27 | 18′-10″ | | | | | | | | | |
| SSS25 | | NC | T US | ED | | | | | | | | | | | |
| 65527 4 | | 8 | | | 8 | | 188 | | | | | | | | |
| SS527 | <i>6S525</i> | | 8 | | 8 | 21′-10″ | 183 | STR | | | | | | | |
| SS527 | | | | | | | | | | | | | | | |
| 65529 2 2 4 7'-1" 30 10 2'-6" 1'-9" 1'-2" 3'-0" 65530 NOT USED 65530 NOT USED 65531 NOT USED 65531 NOT USED 65532 NOT USED 65533 NOT USED 65533 NOT USED 65534 NOT USED 65535 NOT USED 65535 NOT USED 65535 NOT USED 65535 NOT USED 65536 NOT USED 65536 NOT USED 65537 NOT USED 65538 NOT USED 65538 NOT USED 65539 NOT USED 75 | | _ | T US | ED | | | | | | | | | | | |
| 65531 NOT USED 65532 2 2 28'-9" 60 STR 65533 105 105 105 19'-0" 2081 16 18'-5" 65534 105 105 105 10'-10" 1953 16 17'-3" 65537 105 105 105 16'-7" 1816 16 16'-0" 65538 1 1 1 26'-8" 28 STR 65539 1 1 1 1 26'-8" 18 STR 65539 1 1 1 1 17'-4" 18 STR 65530 1 1 1 20'-5" 21 STR 65540 1 1 1 20'-5" 21 STR 65541 1 1 1 1 11'-9" 12 STR 65541 1 1 1 1 11'-9" 12 STR 65542 105 105 20'-6" 2464 STR 65543 105 105 20'-6" 2263 STR 65544 105 105 20'-8" 2263 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 18'-10" 1611 16 18'-3" 65547 NOT USED 65548 116 116 6'-1" 2309 STR 65549 251 251 5'-7" 1473 47 8" 1'-4" 1'-0'/2" 1'-6" 1'-10" 65550 369 369 738 5'-7" 4297 47 8" 11'/4" 11" 1'-10" 1'-10" 65551 738 738 5'-5" 4170 47 8" 91/4" 91/4" 1'-10" 1'-10" 65552 369 369 369 5'-1" 1956 47 8" 91/4" 91/4" 1'-10" 1'-10" 65553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | _ | | | | | | STR | | | | | | | |
| 85531 NOT USED 65532 2 2 28'-9" 60 STR 65533 105 105 105 19'-0" 2081 16 18'-5" 65534 105 105 105 17'-10" 1953 16 17'-3" 65535 105 105 105 16'-7" 1816 16 16'-0" 65536 NOT USED 65537 1 1 1 26'-8" 28 STR 65538 1 1 1 17'-4" 18 STR 65539 1 1 1 17'-4" 18 STR 65540 1 1 12'-5" 21 STR 65541 1 1 1 11'-9" 12 STR 65542 105 105 20'-8" 2263 STR 65543 105 105 20'-8" 2263 STR 65544 105 105 20'-8" 2263 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 88'-10" 1611 16 18'-3" 65547 NOT USED 65548 116 116 16 6'-1" 736 49 8" 1'-4" 1'-3 1/2" 1'-6" 1'-10" 65559 251 251 251 5'-7" 1473 47 8" 1'-4" 1'-3 1/2" 1'-6" 1'-10" 65550 369 369 738 5'-5" 4170 47 8" 91/2" 91/4" 1'-10" 1'-10" 65551 738 738 5'-5" 4170 47 8" 91/2" 91/4" 1'-10" 1'-10" 65552 369 369 369 5'-1" 1956 47 8" 91/2" 91/4" 1'-10" 1'-10" 65553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | _ | | | 4 | 7′-1″ | 30 | 10 | 2'-6" | 1′-9″ | 1'-2" | 3'-0" | | | |
| 65532 2 2 28'-9" 60 STR 65533 105 105 19'-0" 2081 16 18'-5" 65534 105 105 17'-10" 1953 16 17'-3" 65535 105 105 16'-7" 1816 16 16'-0" 65536 NOT USED 105 16'-7" 10 STR 65537 1 1 26'-8" 28 STR 65538 1 1 9'-7" 10 STR 65539 1 1 17'-4" 18 STR 65540 1 1 20'-5" 21 STR 65541 1 1 11'-9" 12 STR 65542 105 105 22'-6" 2464 STR 65543 105 105 22'-6" 2464 STR 65545 82 82 18'-10" 1611 16 18'-3" 65 | <i>6S530</i> | NC | T US | ED | | | | | | | | | | | |
| 65532 2 2 28'-9" 60 STR 65533 105 105 19'-0" 2081 16 18'-5" 65534 105 105 17'-10" 1953 16 17'-3" 65535 105 105 16'-7" 1816 16 16'-0" 65536 NOT USED 105 16'-7" 10 STR 65537 1 1 26'-8" 28 STR 65538 1 1 9'-7" 10 STR 65539 1 1 17'-4" 18 STR 65540 1 1 20'-5" 21 STR 65541 1 1 11'-9" 12 STR 65542 105 105 22'-6" 2464 STR 65543 105 105 22'-6" 2464 STR 65545 82 82 18'-10" 1611 16 18'-3" 65 | | | | | | | | | | | | | | | |
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| 68533 105 105 19'-0" 2081 16 18'-5" 68534 105 105 17'-10" 1953 16 17'-3" 68535 105 105 16'-7" 1816 16 16'-0" 68536 NOT USED 1 1 26'-8" 28 STR 68537 1 1 1 26'-8" 28 STR 68539 1 1 1'-7" 10 STR 68540 1 1 20'-5" 21 STR 68541 1 1'-10" 20'-5" 21 STR 68542 105 105 22'-6" 2464 STR 68543 105 105 20'-8" 2263 STR 68546 82 82 18'-10" 1611 16 18'-3" 68549 251 251 5'-7" 143 49 8" 1'-4" 1'-3'/2" 1'-6" 1'-10" | | _ | T US | ED | | | | | | | | | | | |
| 65534 105 105 17'-10" 1953 16 17'-3" 65535 105 105 16'-7" 1816 16 16'-0" 65536 NOT USED 1 1 26'-8" 28 STR 65537 1 1 26'-8" 28 STR 65538 1 1 1'-4" 18 STR 65540 1 1 1'-4" 18 STR 65541 1 1 1'-9" 12 STR 65542 105 105 20'-6" 2464 STR 65541 1 1 11'-9" 12 STR 65542 105 105 20'-6" 2464 STR 65543 105 105 20'-6" 2263 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 6554 | | _ | | | | | | | | | | | | | |
| 6S535 105 105 16'-7" 1816 16 16'-0" 6S536 NOT USED 1 26'-8" 28 STR 6S537 1 1 1 26'-8" 28 STR 6S538 1 1 17'-4" 18 STR 6S539 1 1 17'-4" 18 STR 6S540 1 1 20'-5" 21 STR 6S541 1 1 11'-9" 12 STR 6S542 105 105 22'-6" 2464 STR 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 551 5'-7" 1473 47 8" 1'-4" | | | | | | | | | | | | | | | |
| 65536 NOT USED 65537 1 1 1 26'-8" 28 STR 65538 1 1 1 3'-7" 10 STR 65539 1 1 1 17'-4" 18 STR 65540 1 1 1 20'-5" 21 STR 65541 1 1 1 11'-9" 12 STR 65542 105 105 22'-6" 2464 STR 65543 105 105 22'-6" 2464 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 18'-10" 1611 16 18'-3" 65547 NOT USED 65548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 655549 251 251 5'-7" 1473 47 8" 1'-4" 1'-0½" 1'-10" 1'-10" 65550 369 369 738 5'-7" 4297 47 8" 11'¼" 1''-0½" 1'-10" 1'-10" 65551 738 738 5'-5" 4170 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 65552 369 369 369 5-1" 1956 47 8" 9½" 9½" 9½" 1'-10" 1'-10" 65553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | | | | | | | | | | | | | | |
| 6S537 1 1 26'-8" 28 STR 6S538 1 1 9'-7" 10 STR 6S539 1 1 17'-4" 18 STR 6S540 1 1 20'-5" 21 STR 6S541 1 1 11'-9" 12 STR 6S542 105 105 22'-6" 2464 STR 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 8 82 82 18'-3" 1561 STR 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-6" 1'-10" 6S550 369 369 738 5'-5" | <i>6S535</i> | 105 | | | 105 | 16'-7" | 1816 | 16 | 16'-0" | | | | | | |
| 6S537 1 1 26'-8" 28 STR 6S538 1 1 9'-7" 10 STR 6S539 1 1 17'-4" 18 STR 6S540 1 1 20'-5" 21 STR 6S541 1 1 11'-9" 12 STR 6S542 105 105 22'-6" 2464 STR 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 8 82 82 18'-3" 1561 STR 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-6" 1'-10" 6S550 369 369 738 5'-5" | | | | | | | | | | | | | | | |
| 65538 1 1 9'-7" 10 STR 65539 1 1 17'-4" 18 STR 65540 1 1 20'-5" 21 STR 65540 1 1 11''-9" 12 STR 65541 1 1 11''-9" 12 STR 65542 105 105 22'-6" 2464 STR 65543 105 105 20'-8" 2263 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 82 18'-3" 1561 STR 65547 NOT USED 65548 116 116 6'-1" 736 49 8" 1'-4" 1'-3'/2" 1'-6" 1'-10" 65549 251 251 5'-7" 1473 47 8" 11'-1" 1'-0'/2" | | _ | T US | ED | | | | | | | | | | | |
| 65539 1 1 17'-4" 18 STR 65540 1 1 20'-5" 21 STR 65540 1 1 11'-9" 12 STR 65541 1 105 22'-6" 2464 STR 65542 105 105 22'-6" 2464 STR 65543 105 105 20'-8" 2263 STR 65544 105 105 20'-8" 2263 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 18'-3" 1561 STR 65547 NOT USED 16 6'-1" 736 49 8" 1'-4" 1'-3'/2" 1'-6" 1'-10" 65549 251 251 5'-7" 1473 47 8" 11'/4" 11'' 1'-6" 1'-10" | | _ | | | | | | | | | | | | | |
| 6S540 1 1 1 1 10'-9" 12 STR 6S541 1 1 1 11'-9" 12 STR 6S542 105 105 20'-6" 2464 STR 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 6S548 116 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ½" 11" 1'-10" 1'-10" 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 9½" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-10" 1'-10" 1'-5 ½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | _ | | | | | | | | | | | | | |
| 6S541 1 1 1 11'-9" 12 STR 6S542 105 105 22'-6" 2464 STR 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ½" 11" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 9½" 1'-6" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 1'-5 ½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| 65542 105 105 22'-6" 2464 STR 65543 105 105 20'-8" 2263 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 18'-3" 1561 STR 65547 NOT USED 65548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 65549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 65550 369 369 738 5'-7" 4297 47 8" 11 ½" 11" 1'-10" 1'-10" 1'-10" 65552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 1'-5 ½" 65553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | <i>6S540</i> | 1 | | | 1 | 20'-5" | 21 | STR | | | | | | | - |
| 65542 105 105 22'-6" 2464 STR 65543 105 105 20'-8" 2263 STR 65544 105 105 21'-1" 2309 STR 65545 82 82 18'-10" 1611 16 18'-3" 65546 82 82 18'-3" 1561 STR 65547 NOT USED 65548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 65549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 65550 369 369 738 5'-7" 4297 47 8" 11 ½" 11" 1'-10" 1'-10" 1'-10" 65552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 1'-5 ½" 65553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | . | | | | 44.0" | | | | | | | | | |
| 6S543 105 105 20'-8" 2263 STR 6S544 105 105 21'-1" 2309 STR 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ½" 11" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 1'-5½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | _ | | | | | | | | | | | | | + |
| 6S544 105 | | | | | | | | | | | | | | | 1 |
| 6S545 82 82 18'-10" 1611 16 18'-3" 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ¼" 11" 1'-10" 1'-10" 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 9½" 1'-6" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-10" 1'-5½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | | | | | | | | | | | | | | 1 |
| 6S546 82 82 18'-3" 1561 STR 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ¼" 11" 1'-10" 1'-10" 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 1'-6" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 9½" 1'-10" 1'-5 ½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | 105 | 02 | | | | | _ | | | | | | | 1 |
| 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ¼" 11" 1'-10" 1'-10" 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 1'-6" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 1'-10" 1'-5 ½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | 03343 | | 02 | | 02 | 10 -10 | 1011 | 10 | 10 -3 | | | | | | + |
| 6S547 NOT USED 6S548 116 116 6'-1" 736 49 8" 1'-4" 1'-3 ½" 1'-6" 1'-10" 6S549 251 251 5'-7" 1473 47 8" 1'-1" 1'-0½" 1'-6" 1'-10" 6S550 369 369 738 5'-7" 4297 47 8" 11 ¼" 11" 1'-10" 1'-10" 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 1'-6" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 1'-10" 1'-5 ½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | ECEAE | | 82 | | 82 | 18/_7/ | 1561 | CTD | | | | | | | + |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | N/C | | En | 02 | 10 -3 | 1501 | SIR | | | | | | | + |
| 6S549 | | 1,40 | | LU | 116 | 6'-1" | 736 | 40 | 8" | 1'-1" | 1'-3 1/2" | 1'-6" | 1'-10" | | + |
| 6S550 369 369 738 5'-7" 4297 47 8" 11 1/4" 11" 1'-10" 1'-10"
6S551 738 738 5'-5" 4170 47 8" 91/2" 91/4" 1'-10" 1'-10"
6S552 369 369 5'-1" 1956 47 8" 91/2" 91/4" 1'-10" 1'-5 1/2"
6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | + | | | | | | | | | | | | | + |
| 6S551 738 738 5'-5" 4170 47 8" 9½" 9½" 1'-10" 1'-10" 6S552 369 369 5'-1" 1956 47 8" 9½" 9½" 1'-10" 1'-5½" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | | 360 | _ | | | | | | · | | | | | | + |
| 6S552 369 369 5'-1" 1956 47 8" 9\/2" 9\/4" 1'-10" 1'-5 \/2" 6S553 34 19 53 6'-2" 341 52 1'-5" 1'-5" 2'-0" 1'-4" | 03000 | 303 | 509 | | 130 | " | 7231 | 17/ | 0 | 11 /4 | 11 | 1 10 | 1 10 | | + |
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| | | | 1.9 | | | | | _ | | | | | 1 0 /2 | | 1 |
| SUB-TOTAL 30.265 | 00000 | 1 7 | ,,, | | | ~ ~ | 371 | 102 | , , | , , | - | , , | | | + |
| | | | | | SU | B-TOTAI | 30,265 | | | | | | | | 1 |

S40 WHIE POND DR. SUITE E AKRON, OH 44320

REINFORCING STEEL LIST (5 OF BRIDGE NO. HAM-74-1908R IR-74 OVER MILL CREEK, RR & SPRING GROVE AVI

HAM-75-3.84 PID No. 104667

98

| | | NUMBER | 1 | | | ž | | | D | MENSION | IS | | |
|-------|-----|------------|-------|--------|--------|------|--------|-----------|-------|---------|----|-------|-----|
| MARK | SI | <i>S</i> 3 | TOTAL | LENGTH | WEIGHT | TYPE | A | В | С | D | Ε | R | INC |
| | | | | | PARAPI | ET - | UNIT 1 | 1 | | | | 1 | |
| 1R501 | 486 | 468 | 954 | 7'-4" | 7296 | 23 | 11" | 3'-3" | 3'-0" | | | 23/4" | |
| 1R502 | 80 | 72 | 152 | 30'-0" | 4756 | STR | | | | | | | |
| IR503 | 236 | 228 | 464 | 4'-2" | 2016 | 44 | 11" | 1'-0" | 1'-0" | | | | |
| IR504 | 170 | 160 | 330 | 8'-7" | 2954 | 45 | 1'-0" | 1'-8" | 3'-3" | 3'-0" | | | |
| 1R505 | 84 | 80 | 164 | 4'-5" | 755 | 6 | 11" | 1'-0" | 1'-0" | | | | |
| IR506 | | | | | | | | | | | | | |
| IR507 | 0 | 4 | 4 | 32'-0" | 134 | STR | | | | | | | |
| 1R508 | 0 | 8 | 8 | 6'-7" | 55 | 44 | 3'-4" | 1'-0" | 1'-0" | | | | |
| 1R509 | 8 | 0 | 8 | 4'-7" | 38 | 44 | 1'-4" | 1'-0" | 1'-0" | | | | |
| 1R510 | 74 | 72 | 146 | 6′-5″ | 977 | STR | | | | | | | |
| 1R511 | 42 | 40 | 82 | 13'-2" | 1126 | STR | | | | | | | |
| 1R512 | 0 | 2 | 2 | 9'-0" | 19 | STR | | | | | | | |
| 1R513 | 0 | 2 | 2 | 10'-2" | 21 | STR | | | | | | | |
| 1R514 | 2 | 0 | 2 | 7′-0″ | 15 | STR | | | | | | | |
| 1R515 | 2 | 0 | 2 | 8'-2" | 17 | STR | | | | | | | |
| 1R601 | 656 | 628 | 1284 | 4'-9" | 9161 | 29 | 11" | 1'-2 1/2" | 1'-7" | 1'-6" | | | |
| IR602 | 37 | 36 | 73 | 6′-5″ | 704 | STR | | , , | | | | | |
| IR603 | 21 | 20 | 41 | 13'-2" | 811 | STR | | | | | | | |
| IR604 | 0 | 1 | 1 | 9'-0" | 14 | STR | | | | | | | |
| IR605 | 0 | 1 | 1 | 10'-2" | 15 | STR | | | | | | | |
| IR606 | 1 | 0 | 1 | 7′-0″ | 11 | STR | | | | | | | |
| 1R607 | 1 | 0 | 1 | 8'-2" | 12 | STR | | | | | | | |

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 - | | | NUMBER | | | | LJ | | | D. | IMENSION | IS | | |
|-----------------|-------|-----|-----------|-------|----------|--------|------------|--------|-----------|-------|----------|----|-------|-----|
| 200 | MARK | C1 | 60 | TOTAL | LENGTH | WEIGHT | TYPE | | | | | | _ | |
| 1 | | S1 | <i>S2</i> | TOTAL | | | 7 | Α | В | С | D | Ε | R | INC |
| | | | | | | PARAPE | <i>T</i> - | UNIT 6 | | | | | | |
| 9 | 6R501 | 144 | 150 | 294 | 7'-4" | 2249 | 23 | 11" | 3'-3" | 3'-0" | | | 23/4" | |
| is. | 6R502 | 24 | 20 | 44 | 30'-0" | 1377 | STR | | | | | | | |
| ב
ה | 6R503 | 80 | 84 | 164 | 4'-2" | 713 | 44 | 11" | 1'-0" | 1'-0" | | | | |
| Š | 6R504 | 54 | 54 | 108 | 8'-7" | 967 | 45 | 1'-0" | 1′-8″ | 3'-3" | 3'-0" | | | |
| ĮΣ | 6R505 | 12 | 12 | 24 | 4'-5" | 111 | 6 | 11" | 1'-0" | 1'-0" | | | | |
| ŝΕ | 6R506 | 0 | 4 | 4 | 32′-6″ | 136 | STR | | | | | | | |
| Z Z | 6R507 | | | | | | | | | | | | | |
| | 6R508 | 0 | 8 | 8 | 4'-6" | 38 | 44 | 1′-3″ | 1'-0" | 1'-0" | | | | |
| ii L | 6R509 | 8 | 0 | 8 | 5′-11″ | 50 | 44 | 2′-8″ | 1'-0" | 1'-0" | | | | |
| 3L | 6R510 | 32 | 34 | 66 | 6′-5″ | 442 | STR | | | | | | | |
| ΞL | 6R511 | 6 | 6 | 12 | 13'-2" | 165 | STR | | | | | | | |
| $^{\circ}$ L | 6R512 | 0 | 2 | 2 | 6′-10″ | 14 | STR | | | | | | | |
| èL | 6R513 | 0 | 2 | 2 | 8'-0" | 17 | STR | | | | | | | |
| <u> </u> | 6R514 | 2 | 0 | 2 | 8'-3" | 17 | STR | | | | | | | |
| ŢĹ | 6R515 | 2 | 0 | 2 | 9′-5″ | 20 | STR | | | | | | | |
| ġL | | | | | | | | | | | | | | |
| íL | 6R601 | 198 | 204 | 402 | 4'-9" | 2868 | 29 | 11‴ | 1'-2 1/2" | 1'-7" | 1'-6" | | | |
| | 6R602 | 16 | 17 | 33 | 6′-5″ | 318 | STR | | | | | | | |
| Į | 6R603 | 3 | 3 | 6 | 13'-2" | 119 | STR | | | | | | | |
| ÈL | 6R604 | 0 | 1 | 1 | 6′-10″ | 10 | STR | | | | | | | |
| 7 L | 6R605 | 0 | 1 | 1 | 8'-0" | 12 | STR | | | | | | | |
| ŽL | 6R606 | 1 | 0 | 1 | 8'-3" | 12 | STR | | | | | | | |
| bL | 6R607 | 1 | 0 | 1 | 9′-5″ | 14 | STR | | | | | | | |
| | | | | SU | JB-TOTAL | 9,669 | | | | | | | | |

| MARK | | NUM | BER | | LENGTH | WEIGHT | TYPE | | | DI | MENSIO | V S | | | | | |
|----------------|---------------|-----------|-----------|-------|---------------|---------|------|---------|-----------|----------|--------|------------|-------|-----|--------------------|-------------------------|--|
| MAINN | SI | <i>S2</i> | <i>S3</i> | TOTAL | LLNOTTI | WEIGHT | 7 | A | В | С | D | Ε | R | INC | DESIGN AGENC | IMEN | |
| | | | | | PA | RAPET - | UNIT | 7 2 | | | | | | | DESIG | 9 | |
| 2R501 | 246 | 243 | 96 | 585 | 7′-4″ | 4474 | 23 | 11" | 3'-3" | 3'-0" | | | 23/4" | | 1 1 | Щ | |
| 2R502 | 60 | 36 | 12 | 108 | 30'-0" | 3380 | STR | | | | | | ,, | | | | |
| 2R503 | 176 | 108 | 44 | 328 | 4'-2" | 1425 | 44 | 11" | 1'-0" | 1'-0" | | | | | | | |
| 2R504 | 130 | 79 | 39 | 248 | 8'-7" | 2220 | 45 | 1'-0" | 1'-8" | 3'-3" | 3'-0" | | | | | | |
| 2R505 | 72 | 40 | 20 | 132 | 4'-5" | 608 | 6 | 11" | 1'-0" | 1'-0" | | | | | 100 | STRICTURE FILE NUMBER | |
| 2R506 | 0 | 0 | 4 | 4 | 32'-3" | 135 | STR | | | | | | | | DATE | 5 | |
| 2R507 | 4 | 4 | 0 | 8 | 13'-8" | 114 | STR | | | | | | | | AQ 7. | 7 4 | |
| 2R508 | 0 | 4 | 4 | 8 | 6'-6" | 54 | 44 | 3'-4" | 1'-0" | 1'-0" | | | | | \ \rac{1}{2} | ر
ا | |
| 2R509 | 8 | 0 | 0 | 8 | 4'-7" | 38 | 44 | 1'-4" | 1'-0" | 1'-0" | | | | | REVIEWED
TFS | اً ا | |
| 2R510 | 50 | 32 | 12 | 94 | 6'-5" | 629 | STR | | | | | | | | | ≟ا ـُـ | |
| 2R511 | 36 | 20 | 10 | 66 | 13'-2" | 906 | STR | | | | | | | | Æ | Ľ | |
| 2R512 | 0 | 0 | 2 | 2 | 8'-11" | 19 | STR | | | | | | | | | - 1 | |
| 2R513 | 0 | 2 | 0 | 2 | 10'-1" | 21 | STR | | | | | | | | DRAWN | PEVICEN | |
| 2R514 | 2 | 0 | 0 | 2 | 7'-0" | 15 | STR | | | | | | | | 씸 | į | |
| 2R515 | 2 | 0 | 0 | 2 | 8'-2" | 17 | STR | | | | | | | | - | + | |
| | | 1 SR | | 1 SR | 4'-1" | | | | | 2'-3" | | | | | ٦ _{٩ / ,} | , [| |
| 2R516 | 0 | OF | 0 | OF | TO | 18 | 20 | 1'-0" | 21/4" | TO | 21/4" | 1'-0" | | 1" | DESIGNED
KDC | CHECKEN | |
| | | 4 | | 4 | 4'-4" | | | | | 2'-6" | | | | | ᆸ | ď | |
| 2R517 | 0 | 1 | 0 | 1 | 7'-0" | 7 | 19 | 4'-3" | 1'-7" | 2'-3" | | | | | | | |
| 2R518 | 0 | 2 | 0 | 2 | 7′-5″ | 16 | 19 | 4'-3" | 1'-10" | 2'-8" | | | | | 1 | | |
| 2R519 | 0 | 1 | 0 | 1 | 13'-9" | 14 | 46 | 8'-95%" | 2'-41/4" | 3'-23/4" | | | | | 1 | | |
| 2R520 | 0 | 2 | 0 | 2 | 14'-4" | 30 | 46 | 9'-0%" | 2'-101/4" | 3'-41/8" | | | | | 1 | | |
| 2R521 | 8 | 0 | 8 | 16 | 9'-3" | 154 | 45 | 1'-4" | 2'-0" | 3'-2" | 3'-0" | | | | 1 | | |
| 2R522 | 4 | 0 | 4 | 8 | 4'-1" | 34 | 10 | 2'-5" | 0'-10" | 0'-10" | 0'-10" | | | | | | |
| 2R523 | 4 | 0 | 4 | 8 | 15'-1" | 126 | 12 | 0'-10" | 0'-10" | 5′-9″ | 2'-0" | 6'-5" | | |] ⊋ | | |
| 2R524 | 4 | 0 | 4 | 8 | 3'-9" | 31 | 9 | 0'-10" | 0'-10" | 0'-10" | 2'-5" | | | | | | |
| 20601 | 506 | 322 | 139 | 967 | 4'-9" | 6899 | 29 | 11" | 1'-2 1/2" | 1'-7" | 1'-6" | | | | OF. | , | |
| 2R601
2R602 | 27 | 16 | 10 | 51 | 6'-5" | 492 | STR | 11 | 1-2 72 | 7-7 | 1-6 | | | | | | |
| 2R603 | 21
18 | 10 | 5 | 33 | 13'-2" | 653 | STR | | | | | | | | 9) | | |
| 2R603
2R604 | 0 | 0 | 1 | 1 33 | 8'-11" | 13 | STR | | | | | | | | ⊢ | · 8R | |
| 2R604
2R605 | 0 | 1 | 0 | 1 | 10'-1" | 15 | STR | | | | | | | + | LIST | 190 | |
| 2R605
2R606 | 1 | 0 | 0 | 1 | 7'-0" | 11 | STR | | | | | | | 1 | ┦ 🗖 | . 4- | |
| 2R607 | 1 | 0 | 0 | 1 | 8'-2" | 12 | STR | | | | | | | 1 | ┨ | 7-1 | |
| 2R607
2R608 | 0 | 1 | 0 | 1 1 | 13'-10" | 20 | 46 | 8'-6" | 1'-91/4" | 3'-0" | | | | | STEEL | ¥ | |
| 2R609 | 0 | 1 | 0 | 1 1 | 8'-1" | 12 | 1 | 4'-3" | 4'-0" | J =0 | | | | | ┨┇ | · | |
| 2R610 | 0 | 1 | 0 | 1 | 7'-7" | 12 | 1 | 3'-9" | 4'-0" | | | | | 1 | ⊣ თ | 2 | |
| 2R611 | 0 | 0 | 8 | 8 | 5'-4" | 64 | 29 | 11" | 1'-9 1/2" | 1'-7" | 1′-6″ | | | 1 | ا رح | 빙 | |
| 2R612* | 8 | 0 | 0 | 8 | 3 -4
4'-5" | 53 | 29 | 11" | 1'-9 1/2" | 1'-7" | 7" | | | | ⊣ ž | E | |
| 2R613 | <u>o</u>
8 | 0 | 0 | 8 | 2'-6" | 30 | STR | 11 | 1-3/2 | 1 - 1 | / | | | | ქ ⴢ | , Ж | |
| 211013 | 0 | | | | | | 3111 | | 1 | | | | | | REINFORCING | BRIDGE NO. HAM-74-1908R | |
| | | | | 50 | UB-TOTAL | 22,770 | | | | | | | | | ٦٣ | | |

LEGEND: * - MECHANICAL CONNECTOR

NOTES: 1. SEE SHEET 94/100 FOR NOTES.

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HAM-75-3.84 PID No. 104667

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PEIN MARIE E MARGON, OH 44320, OH 64320, OH 64

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REINFORCING STEEL LIST (7 BRIDGE NO. HAM-74-1908R IR-74 OVER MILL CREEK, RR & SPRING GROV

| | | NUMBER | | | | | E | DIMENSIONS | | | | | | | |
|--------|------|--------|----|-------|----------|--------|------|------------|-------|-------|---|---|---|-------|--|
| MARK | 1 | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | Α | В | С | D | E | R | INC | |
| | | | | | | ADUTA | CNIT | , | | | | | | | |
| | | | | | | ABUTM | EN I | <u>′</u> | | | | _ | | _ | |
| 1A501 | _ | T US | ED | | | | | | | | | | | | |
| *1A502 | 21 | | | 21 | 33′-6″ | 734 | STR | | | | | | | | |
| *14503 | | 21 | | 21 | 21'-1" | 462 | STR | | | | | | | | |
| 1A504 | | | 21 | 21 | 13′-10″ | 303 | STR | | | | | | | | |
| 1A505 | | | 18 | 18 | 4'-0" | 75 | STR | | | | | | | | |
| 1A506 | 18 | | | 18 | 2'-5" | 45 | 16 | 2'-0" | | | | | | | |
| 1A601 | 42 | 26 | 17 | 85 | 6'-5" | 819 | 2 | 3′-0″ | 9" | 3'-0" | | | | | |
| | 1 SR | | | 1 SER | 15′-11″ | | | 7′-6″ | | 7′-6″ | | | | | |
| 1A602 | OF | | | OF | TO | 1057 | 2 | TO | 1'-3" | TO | | | | 1/2" | |
| | 42 | | | 42 | 17'-7" | | | 8'-4" | | 8'-4" | | | | 1 / - | |
| 1A603 | | 26 | | 26 | 17'-7" | 687 | 2 | 8'-4" | 1′-3″ | 8'-4" | | | | | |
| 1A604 | | | 17 | 17 | 17'-11" | 457 | 2 | 8'-6" | 1′-3″ | 8'-6" | | | | | |
| 1A605 | 84 | 52 | 34 | 170 | 4'-4" | 1107 | STR | | | | | | | | |
| 1A801 | 24 | 15 | 10 | 49 | 5'-51/2" | 714 | 18 | 3'-31/2" | 1'-0" | 1'-0" | | | | | |
| | | | | SU | JB-TOTAL | 6,460 | | | | | | • | - | | |

| | | | NUME | BER | | WEIGHT | E | DIMENSIONS | | | | | | | |
|--------|----|------|-----------|--------|----------|--------|------|------------|--------|--------|---|---|---|-----|--|
| MARK | , | 2 | 3 | TOTAL | LENGTH | | TYPE | | T | 1 | | | I | T | |
| | ' | | | 707712 | | | | Α | В | С | D | E | R | INC | |
| | 1 | | | | | ABUTM | ENT | 4 | | | | | | -1 | |
| 4A501 | NC | T US | <i>ED</i> | | | | | | | | | | | | |
| 4A502 | 11 | | | 11 | 23′-11″ | 274 | STR | | | | | | | | |
| *4A503 | | 11 | | 11 | 36'-4" | 417 | STR | | | | | | | | |
| 4A504 | 8 | | | 8 | 4'-0" | 33 | STR | | | | | | | | |
| 4A505 | | 8 | | 8 | 2'-7" | 22 | 16 | 2'-0" | | | | | | | |
| 4A601 | 25 | | | 25 | 6′-5″ | 167 | 2 | 3'-0" | 9" | 3′-0″ | | | | | |
| 4A602 | 25 | | | 25 | 7′-11″ | 297 | 2 | 3′-6″ | 1'-3" | 3′-6″ | | | | | |
| 4A603 | | 37 | | 37 | 7′-7″ | 421 | 2 | 3'-4" | 1'-3" | 3'-4" | | | | | |
| 4A604 | 50 | 74 | | 124 | 4'-0" | 745 | STR | | | | | | | | |
| 4S605 | | 37 | | 37 | 2'-7" | 36 | 2 | 0'-11" | 0'-11" | 0'-11" | | | | | |
| AS606 | | 74 | | 74 | 3'-4" | 370 | 1 | 0'-6" | 3'-0" | | | | | | |
| 4A801 | 21 | 15 | | 41 | 6'-2" | 675 | 18 | 4'-0" | 1'-0" | 1'-0" | | | | | |
| | • | | | Sl | IB-TOTAL | 3,435 | | | • | | | • | • | • | |

| | | NUMBER | | | | | E | | | D. | IMENSION | vs | | |
|---------|------|--------|------|-------|---------|--------|------|--------|------------|--------|----------|----|-------|-----|
| MARK | , | ٥ | 3 | TOTAL | LENGTH | WEIGHT | TYPE | | , | | | | | |
| | ' | 2 |) | TOTAL | | | 1 | A | В | С | D | Ε | R | INC |
| | | | | | | REAR | API | PROACH | SLAB PA | ARAPET | | | | |
| RASR501 | 6 | | 6 | 12 | 7′-4″ | 92 | 23 | 11" | 3'-3" | 3'-0" | | | 23/4" | |
| RASR502 | 2 | | 2 | 4 | 10'-7" | 44 | STR | | | | | | | |
| RASR503 | 4 | | 4 | 8 | 20′-7″ | 172 | STR | | | | | | | |
| RASR504 | 9 | | 9 | 18 | 8'-7" | 161 | 45 | 1'-0" | 1'-8" | 3'-3" | 3'-0" | | | |
| RASR505 | 4 | | 4 | 8 | 7′-1″ | 59 | 44 | 3′-10″ | 1'-0" | 1'-0" | | | | |
| RASR506 | 4 | | 4 | 8 | 4'-2" | 35 | 44 | 11" | 1'-0" | 1'-0" | | | | |
| RASR507 | 4 | | 4 | 8 | 9'-10" | 82 | STR | | | | | | | |
| RASR508 | 4 | | 4 | 8 | 5'-9" | 48 | 25 | 1′-10″ | 2'-5" | 1′-5″ | 1 1/2" | 5" | | |
| RASR509 | 4 | | 4 | 8 | 5′-8″ | 47 | STR | | | | | | | |
| RASR510 | 8 | | 8 | 16 | 3'-1" | 51 | 2 | 1'-2" | 1'-0" | 1'-2" | | | | |
| RASR511 | 8 | | 8 | 16 | 3'-9" | 63 | 2 | 1'-6" | 1'-0" | 1'-6" | | | | |
| RASR520 | | | | | | 1225 | STR | | | | | | | |
| RASR601 | 15 | | 15 | 30 | 4'-9" | 214 | 29 | 11" | 1'-2 1/2" | 1′-7″ | 1′-6″ | | | |
| RASR602 | 1 | | 1 | 2 | 10'-7" | 32 | STR | | 1 2 | | | | | |
| | 2 SR | | 2 SR | 4 SR | 3'-11" | | | | 3'-0 1/2" | | | | | |
| RASR603 | OF | | OF | OF | TO | 312 | 1 | 1'-0" | TO | | | | | 1" |
| | 12 | | 12 | 12 | 4'-10" | | | | 3'-11 1/2" | | | | | |
| RASR604 | 6 | | 6 | 12 | 4'-0" | 72 | 1 | 1'-0" | 3'-1 1/2" | | | | | |
| | | | | SU | B-TOTAL | 2,709 | | | | | | | | |

| | | / | <i>IUMB</i> | PER | | | Į. | | | D | IMENSION | IS | | |
|----------------|----------|------|-------------|-------|---------|--------|------|--------|------------|--------|----------|----|-------|-----|
| MARK | , | 2 | 3 | TOTAL | LENGTH | WEIGHT | TYPE | | 1 1 | | | | | |
| | | | | | | | | Α | В | С | <i>D</i> | Ε | R | INC |
| | | | | | | FORWA | RD A | PPROA | CH SLAB | PARAPE | T | | | 1 |
| FASR501 | 6 | 6 | | 12 | 7′-4″ | 92 | 23 | 11" | 3'-3" | 3′-0″ | | | 23/4" | |
| FASR502 | 2 | 2 | | 4 | 10'-6" | 44 | STR | | | | | | | |
| FASR503 | 4 | 4 | | 8 | 20′-6″ | 171 | STR | | | | | | | |
| FASR504 | 9 | 9 | | 18 | 8'-7" | 161 | 45 | 1'-0" | 1'-8" | 3'-3" | 3'-0" | | | |
| FASR505 | 4 | 4 | | 8 | 7′-0″ | 58 | 44 | 3'-9" | 1'-0" | 1'-0" | | | | |
| FASR506 | 4 | 4 | | 8 | 4'-2" | 35 | 44 | 11" | 1'-0" | 1'-0" | | | | |
| FASR507 | 4 | 4 | | 8 | 9′-10″ | 82 | STR | | | | | | | |
| FASR508 | 4 | 4 | | 8 | 5′-9″ | 48 | 25 | 1′-10″ | 2'-5" | 1′-5″ | 1 1/2" | 5" | | |
| <i>FASR509</i> | 4 | 4 | | 8 | 5′-8″ | 47 | STR | | | | | | | |
| FASR510 | 8 | 8 | | 16 | 3'-1" | 51 | 2 | 1′-2″ | 1'-0" | 1′-2″ | | | | |
| FASR511 | 8 | 8 | | 16 | 3'-9" | 63 | 2 | 1′-6″ | 1'-0" | 1'-6" | | | | |
| FASR512 | | 2 | | 2 | 3′-5″ | 7 | 10 | 10" | 1'-2" | 1'-0" | 1'-2" | | | |
| FASR513 | | 2 | | 2 | 2'-10" | 6 | 11 | 10" | 1'-2" | 1′-10″ | | | | |
| FASR514 | | 2 | | 2 | 4'-2" | 9 | 10 | 1'-0" | 1'-6" | 1'-0" | 1′-6″ | | | |
| FASR515 | | 2 | | 2 | 3′-5″ | 7 | 11 | 1'-0" | 1'-6" | 2'-0" | | | | |
| <i>FASR520</i> | | | | | | 1050 | STR | | | | | | | |
| | | | | | | | | | | | | | | |
| FASR601 | 15 | 15 | | 30 | 4'-9" | 214 | 29 | 11" | 1'-2 1/2" | 1′-7″ | 1′-6″ | | | |
| <i>FASR602</i> | 1 | 1 | | 2 | 10′-6″ | 32 | STR | | | | | | | |
| | | 2 SR | | 4 SR | 3′-11″ | | | | 3'-0 1/2" | | | | | |
| FASR603 | OF | OF | | OF | TO | 312 | 1 | 1'-0" | TO | | | | | 1" |
| | 12 | 12 | | 12 | 4'-10" | | | | 3'-11 1/2" | | | | | |
| <i>FASR604</i> | 6 | 6 | | 12 | 4'-0" | 72 | 1 | 1'-0" | 3'-1 1/2" | | | | | |
| | | | | SU | B-TOTAL | 2,561 | | | | | | | | |

- NOTES:
 1. SEE SHEET 94/100 FOR NOTES.
- 2. BAR MARKS DENOTED WITH AN "*"
 REQUIRE MECHANICAL CONNECTORS.

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, | IME AE, Group, Inc | | | | | |
|-------------------------------------------------------------|------------------------|-------------|--|--|--|--|
| DATE REC'D: 8/1/2019 | BUILDABLE UNIT NO.: 11 | FABRICATION | | | | |
| Review conforms that the sho
contract. X CONFORMS AS-IS | WALSH | | | | | |
| 1908R - BE | ARINGS | | | | | |
| By: Conrad Gagnon | | Ву: | | | | |
| Date: 8/2/2019 | | Date: | | | | |

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GENERAL NOTES

GENERAL 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.
- 2. 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.
- 3. ALL DIMENSIONS ARE IN INCHES.
- 4. ALL PLATES SHALL BE SMOOTH AND STRAIGHT.
- 5. SHIP THE SAMPLE BEARING TO AN INDEPENDENT TESTING LABORATORY FOR TESTING PER OH DOT STANDARD SPECIFICATIONS SECTION 711.23.
- 6. NOTIFY THE OH DOT OFFICE OF STRUCTURAL ENGINEERING AT LEAST TWO WEEKS BEFORE STARTING SHOP FABRICATION.
- 7. DYNAMIC RUBBER REPRESENTATIVE: KATHI MILLS 903-677-2871 1501 ROCKY RIDGE RD. ATHENS, TX 75751

FINISH NOTES:

ABUTMENT 1, PIER 1, PIER 3, PIER 6, PIER 19 & ABUTMENT 4:

- 1. BLAST EXPOSED STEEL SURFACES OF THE STEEL PLATES AND HP PEDESTALS TO SSPC-SP10 (NEAR WHITE BLAST CLEANING) PRIOR TO PAINTING.
- 2. UNLESS NOTED OTHERWISE, THE STEEL PLATES AND HP PEDESTALS SHALL BE PRIME PAINTED WITH SHERWIN WILLIAMS ZINC CLAD II PLUS PRIME PAINT (3-5 MILS DFT) PER SPECIFICATION SECTION 514.

CARRIER BEAM - UNIT 2, HINGE SUPPORTS - UNIT 2 & UNIT 6:

- 1. BLAST EXPOSED STEEL SURFACES OF THE STEEL PLATES, ANGLES AND HP PEDESTALS TO SSPC-SP5 (WHITE METAL BLAST CLEANING) PRIOR TO METALIZING.
- 2. UNLESS NOTED OTHERWISE, THE STEEL PLATES, ANGLES AND HP PEDESTALS SHALL BE METALIZED (12 MILS MIN. DFT) & SEAL COATED PER SUPPLEMENTAL SPECIFICATION 869.

MATERIAL NOTES:

ABUTMENT 1, PIER 1, PIER 3, PIER 6, PIER 19 & ABUTMENT 4:

- 1. STEEL LOAD & SOLE PLATES: ASTM A709 GRADE 50 (PAINTED)
- 2. STEEL HP10x42APEDESTALS: ASTM A709 GRADE 50 (PAINTED)
- 3. STEEL HP12x53 PEDESTALS: ASTM A709 GRADE 50 (PAINTED)

CARRIER BEAM - UNIT 2, HINGE SUPPORTS - UNIT 2 & UNIT 6:

- 1. STEEL LOAD & SOLE PLATES: ASTM A709 GRADE 50 (METALIZED)
- 2. STEEL HP10x42 PEDESTALS: ASTM A709 GRADE 50 (METALIZED)
- 3. STEEL HP12x53 PEDESTALS: ASTM A709 GRADE 50 (METALIZED)
- 4. STEEL GUIDE ANGLES & STIFFENERS: ASTM A709 GRADE 50 (METALIZED)
- 5. GUIDE PTFE: ASTM D4894 OR D4895 UNFILLED
- 6. PRIMARY PTFE: ASTM D4894 OR D4895 DIMPLED AND LUBRICATED
- 7. STAINLESS STEEL: ASTM A240, TYPE 304 W/ #8 MIRROR FINISH ON THE SLIDING SURFACÉ.
- 8. PLATE WASHER: ASTM A709 GRADE 50 (HOT-DIPPED GALVANIZED)
- 9. PREFORMED BEARING PAD: PER C&MS 711.21

ALL BEARINGS

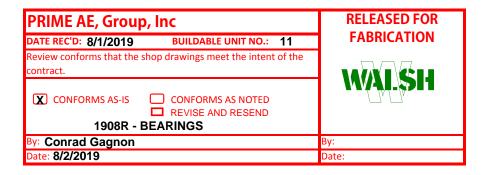
- 1. ELASTOMER: 50 DUROMETER GRADE 3 NEOPRENE
- 2. STEEL LAMINATES: ASTM A709 GRADE 36, A1011 GRADE 36, GRADE 40 OR EQUIVALENT.
- 3. ALL-THREAD ANCHOR ROD: ASTM F1554 GRADE 55 (HOT-DIPPED GLAVANIZED)
- 4. HVY. HEX NUT: ASTM A563-DH (HOT-DIPPED GALVANIZED)
- 5. HD WASHER: ASTM F436 (HOT-DIPPED GALVANIZED)



CONTRACTOR NOTES:

REMOVED CONTRACTOR NOTE CLOUD, CHANGED HP10x57 HP10x42 PER DESIGN CHAN

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.



STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM - 75 - 3.84CITY OF CINCINNATI

| STATE | COUNTY | PID NO. |
|-------------|------------|---------|
| ОН | HAMILTON | 104667 |
| EED DOOL NO | E470 (747) | - |

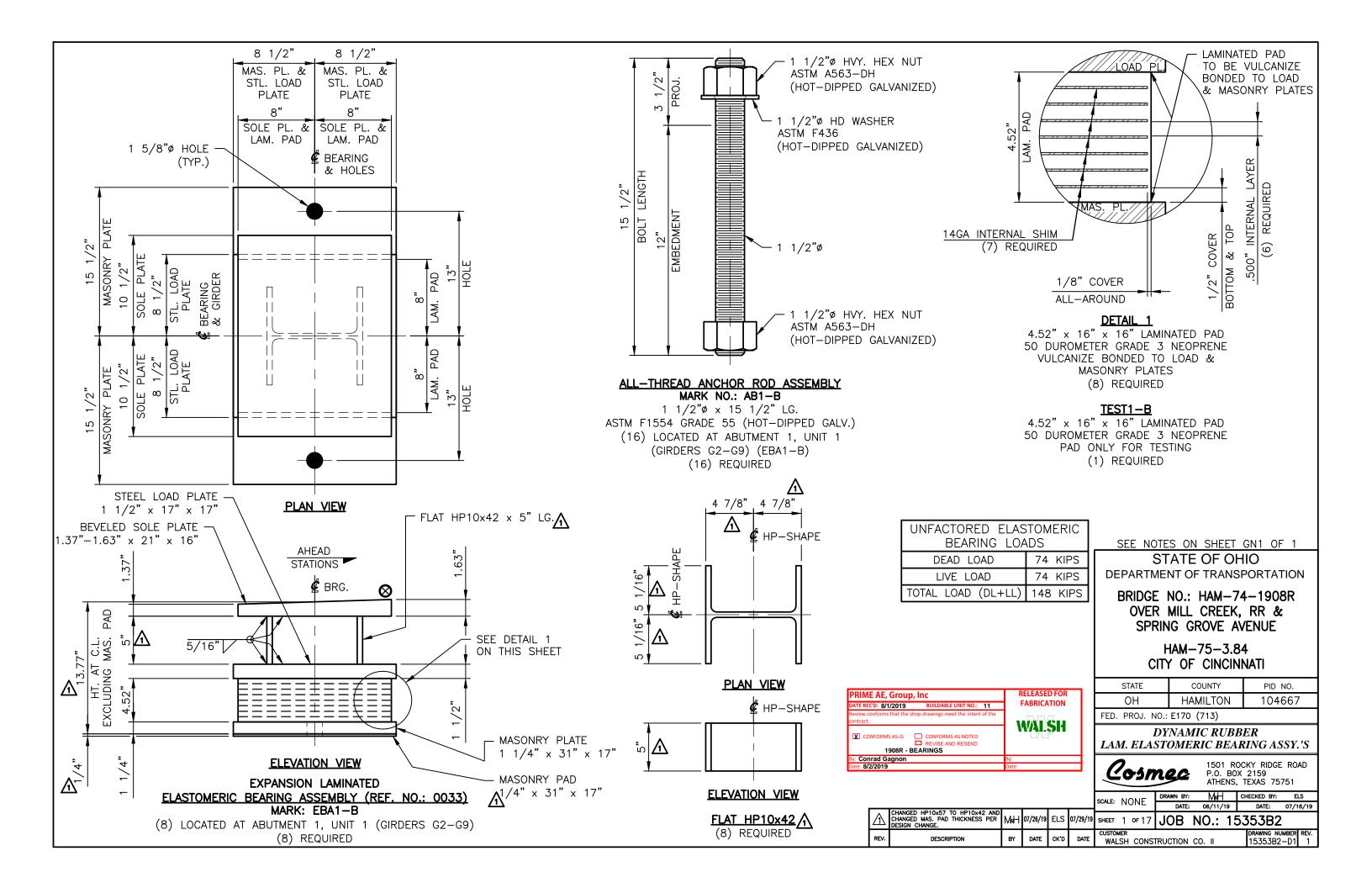
FED. PROJ. NO.: E170 (713)

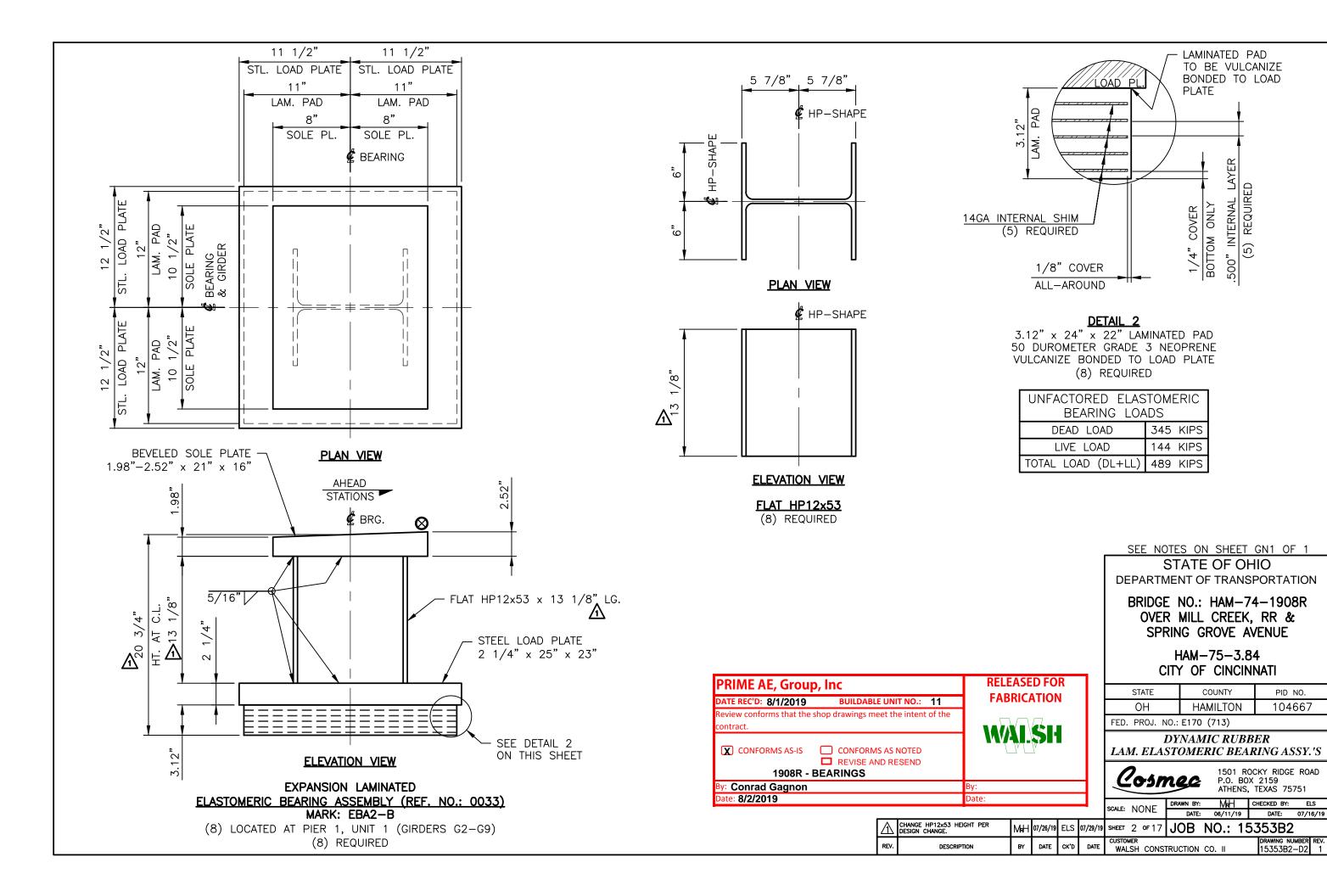
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S



1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

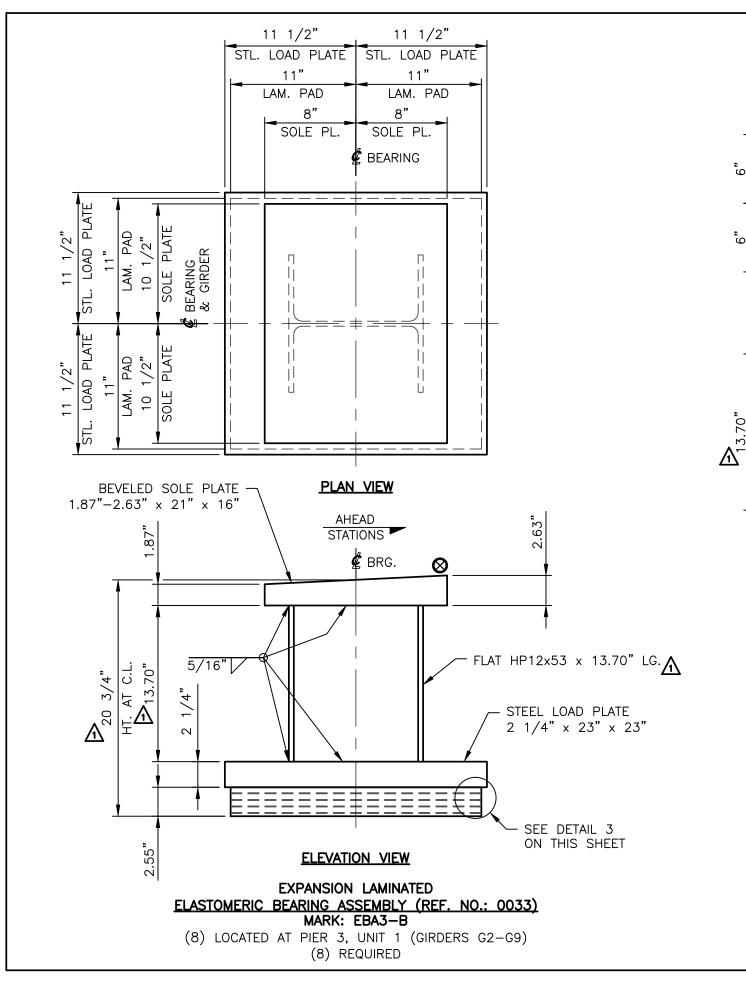
| | | | | | SCALE: NONE | DIVANIA DI. | · IVM | | DILOKED DI. | | |
|--------------------|----|----------|------|--------------|---------------------|-------------|--------|-------|------------------------|------|------|
| | | | | JOALE: NOINE | DATE: | : 06/11/ | 19 | DATE: | 07/1 | 6/19 | |
| : AND
TO
GE. | МН | 07/26/19 | ELS | 07/29/19 | SHEET GN1 OF 1 | JOB | NO.: | 15 | 353B2 | | |
| | BY | DATE | CK'D | DATE | CUSTOMER WALSH CONS | TRUCTION | CO. II | | DRAWING NU
15353B2- | | REV. |

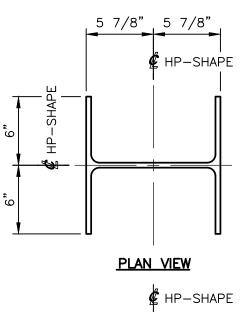


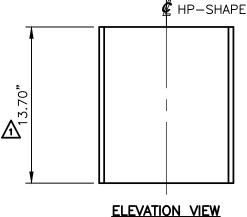


PID NO.

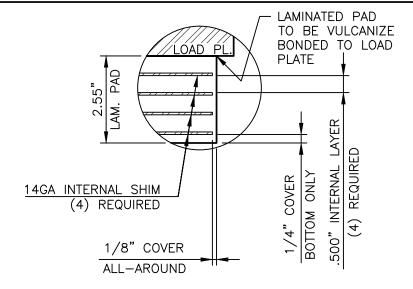
104667







FLAT HP12x53 (8) REQUIRED



DETAIL 3 2.55" x 22" x 22" LAMINATED PAD 50 DUROMETER GRADE 3 NEOPRENE VULCANIZE BONDED TO LOAD PLATE (8) REQUIRED

| UNFACTORED ELASTOMERIC BEARING LOADS | | | | | | | |
|--------------------------------------|----------|--|--|--|--|--|--|
| | 325 KIPS | | | | | | |
| LIVE LOAD | 145 KIPS | | | | | | |
| TOTAL LOAD (DL+LL) | 470 KIPS | | | | | | |

RELEASED FOR PRIME AE, Group, Inc. **FABRICATION** DATE REC'D: 8/1/2019 BUILDABLE UNIT NO.: 11 Review conforms that the shop drawings meet the intent of the ☐ CONFORMS AS NOTED X CONFORMS AS-IS ■ REVISE AND RESEND **1908R - BEARINGS** By: Conrad Gagnon Date: 8/2/2019

SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| STATE | COUNTY | PID NO. |
|-------------|------------|---------|
| ОН | HAMILTON | 104667 |
| EED DDOL NO | E470 (747) | |

FED. PROJ. NO.: E170 (713)

DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S

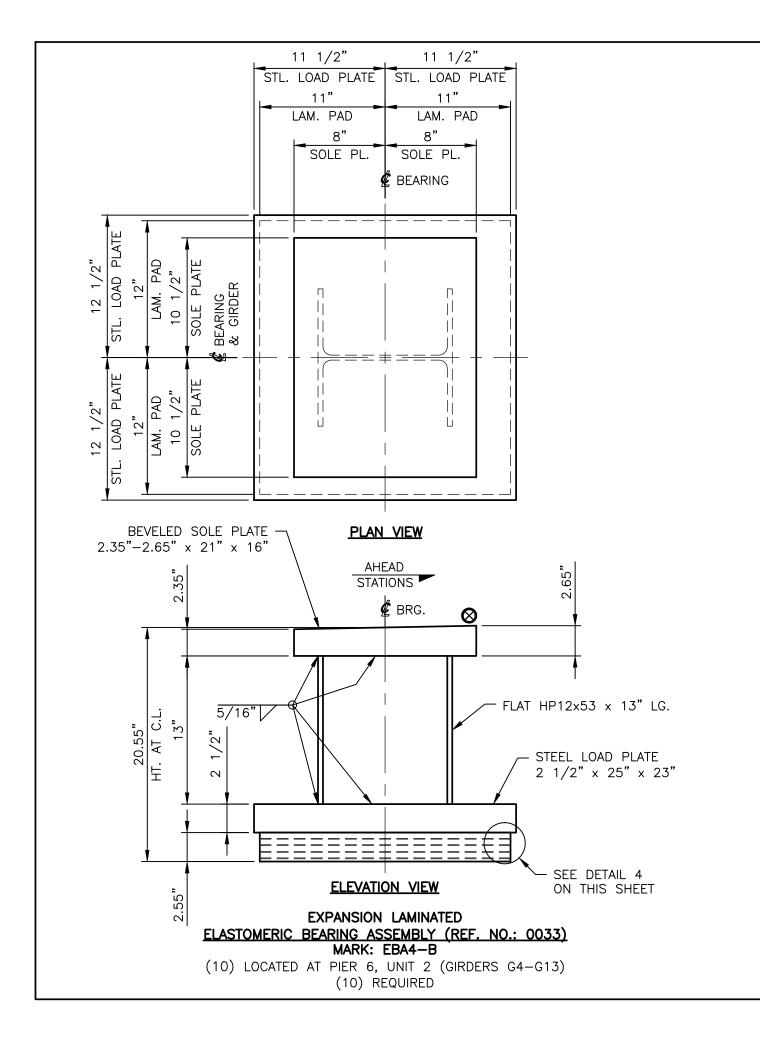


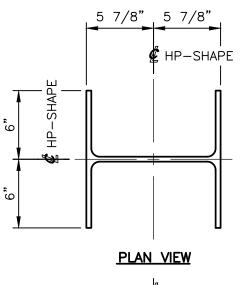
1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

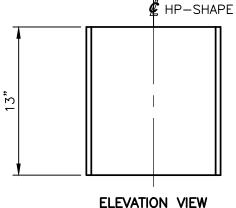
| | SCALE. | NONE | DRAWN BY: | MaH | | CHECKED BY: | ELS | |
|----|--------|---------|-----------|---------|----|-------------|----------|---|
| | SCALE: | NONE | DATE: | 06/11/1 | 9 | DATE: | 07/16/19 | ĺ |
| 19 | SHEET | 3 of 17 | JOB | NO.: | 15 | 5353B2 | | |

REVISED HP12x53 HEIGHT PER DESIGN CHANGE. MH 07/26/19 ELS 07/29/1 DATE

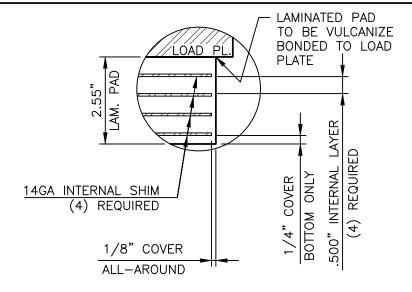
CUSTOMER
WALSH CONSTRUCTION CO. II







FLAT HP12x53 (10) REQUIRED



DETAIL 4

2.55" x 24" x 22" LAMINATED PAD 50 DUROMETER GRADE 3 NEOPRENE VULCANIZE BONDED TO LOAD PLATE (10) REQUIRED

| UNFACTORED ELASTOMERIC
BEARING LOADS | | | | | |
|-----------------------------------------|----------|--|--|--|--|
| DEAD LOAD 389 KIPS | | | | | |
| LIVE LOAD | 137 KIPS | | | | |
| TOTAL LOAD (DL+LL) | 526 KIPS | | | | |

SEE NOTES ON SHEET GN1 OF 1 STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| === ==== | () | |
|----------|----------|---------|
| ОН | HAMILTON | 104667 |
| STATE | COUNTY | PID NO. |

FED. PROJ. NO.: E170 (713)

DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S



1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

MH CHECKED BY: ELS SCALE: NONE DATE: 06/11/19 DATE: 07/16/19 SHEET 4 OF 17 JOB NO.: 15353B DRAWING NUMBER REV. 15353B-D4 0 BY DATE CK'D DATE WALSH CONSTRUCTION CO. II

PRIME AE, Group, Inc. DATE REC'D: 8/1/2019 BUILDABLE UNIT NO.: 11

X CONFORMS AS-IS

1908R - BEARINGS

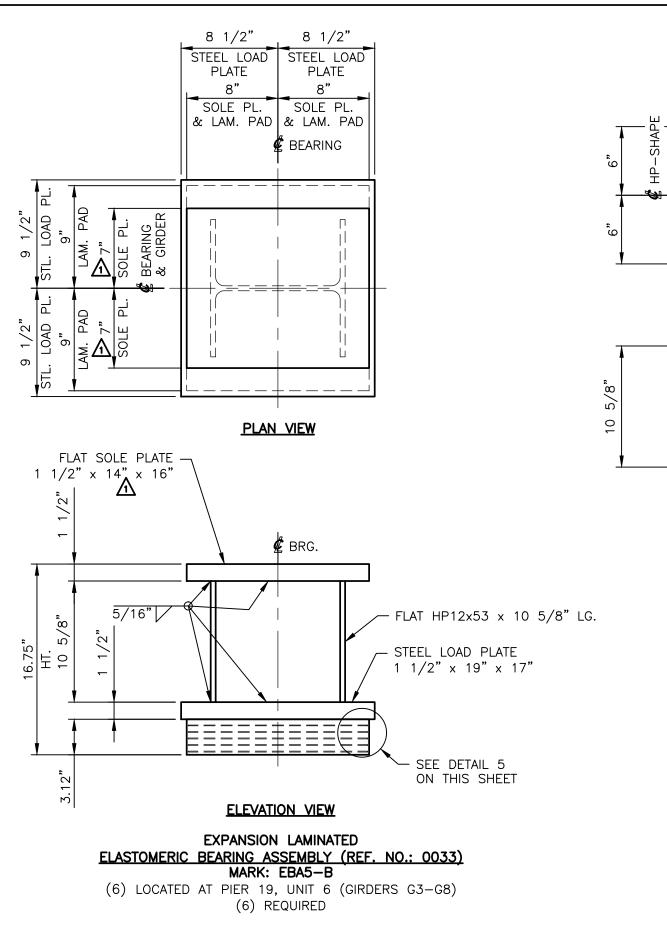
y: Conrad Gagnon te: 8/2/2019

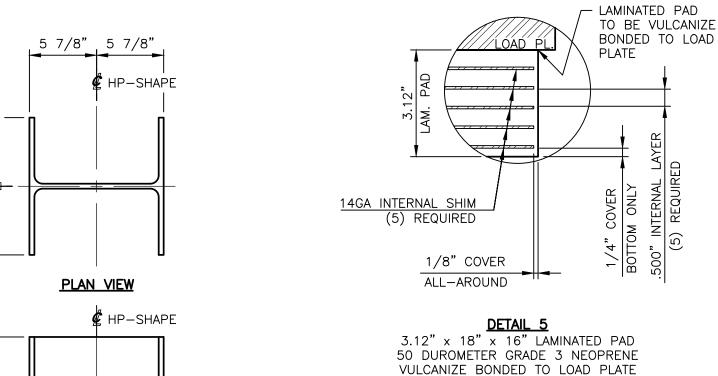
CONFORMS AS NOTED REVISE AND RESEND

DESCRIPTION

RELEASED FOR

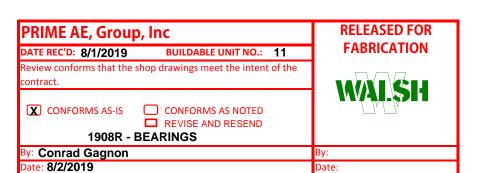
FABRICATION





UNFACTORED ELASTOMERIC BEARING LOADS DEAD LOAD 140 KIPS LIVE LOAD 61 KIPS TOTAL LOAD (DL+LL) 201 KIPS

(6) REQUIRED



ELEVATION VIEW

FLAT HP12x53 (6) REQUIRED

SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM - 75 - 3.84CITY OF CINCINNATI

| STATE | COUNTY | PID NO. |
|-------------|------------|---------|
| ОН | HAMILTON | 104667 |
| EED DOOL NO | E430 (343) | |

FED. PROJ. NO.: E170 (713)

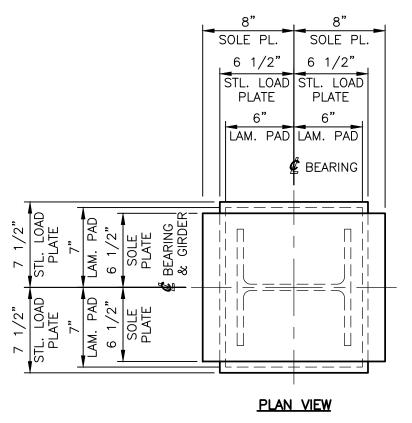
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S

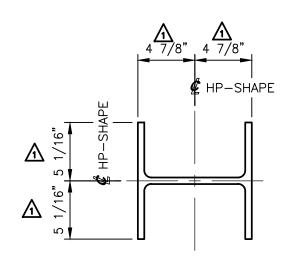


1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

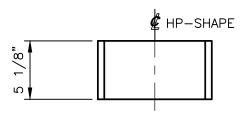
| | SCALE: NC | ONE | DIVAMIN DI. | IVRI | | CHECKED BI. | ELO | |
|------|-----------|--------|-------------|--------|------|-------------|------------|-----------|
| | | INOINE | DATE: | 06/11/ | 19 | DATE: | 07/16/19 | |
| 9/19 | SHEET | 5 | of 17 | JOB | NO.: | 15 | 5353B2 | |
| | CUSTO | MED | | | | | DRAWING NI | IMBED DEV |

REVISED SOLE PLATE WIDTH PER DESIGN CHANGE. MHH 07/26/19 ELS 07/29 BY DATE DATE 15353B2-D5 1 WALSH CONSTRUCTION CO. II



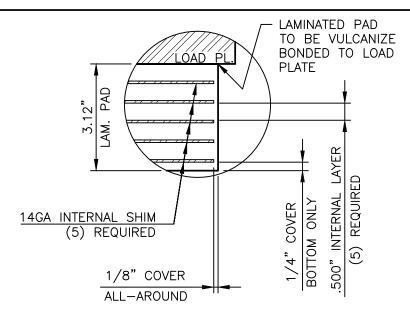


PLAN VIEW



ELEVATION VIEW

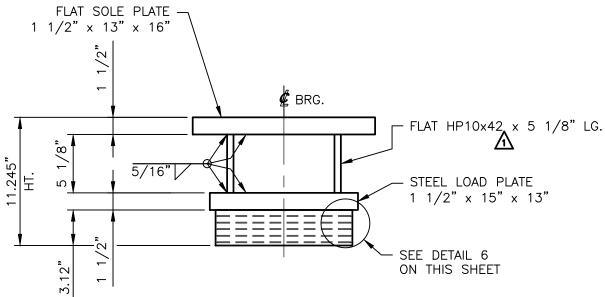
FLAT HP10x42 1



DETAIL 6

3.12" x 14" x 12" LAMINATED PAD 50 DUROMETER GRADE 3 NEOPRENE VULCANIZE BONDED TO LOAD PLATE (6) REQUIRED

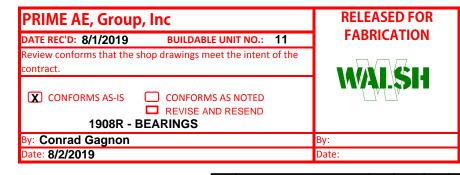
| UNFACTORED ELASTOMERIC
BEARING LOADS | | | | | | | |
|-----------------------------------------|---------|--|--|--|--|--|--|
| DEAD LOAD 43 KIPS | | | | | | | |
| LIVE LOAD | 50 KIPS | | | | | | |
| TOTAL LOAD (DL+LL) | 93 KIPS | | | | | | |



EXPANSION LAMINATED ELASTOMERIC BEARING ASSEMBLY (REF. NO.: 0033) MARK: EBA6-B

ELEVATION VIEW

(6) LOCATED AT ABUTMENT 4, UNIT 6 (GIRDERS G3-G8) (6) REQUIRED



SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| ОН | HAMII TON | 104667 |
|--------------|-----------|--------|
| 555 5551 115 | () | |

FED. PROJ. NO.: E170 (713)

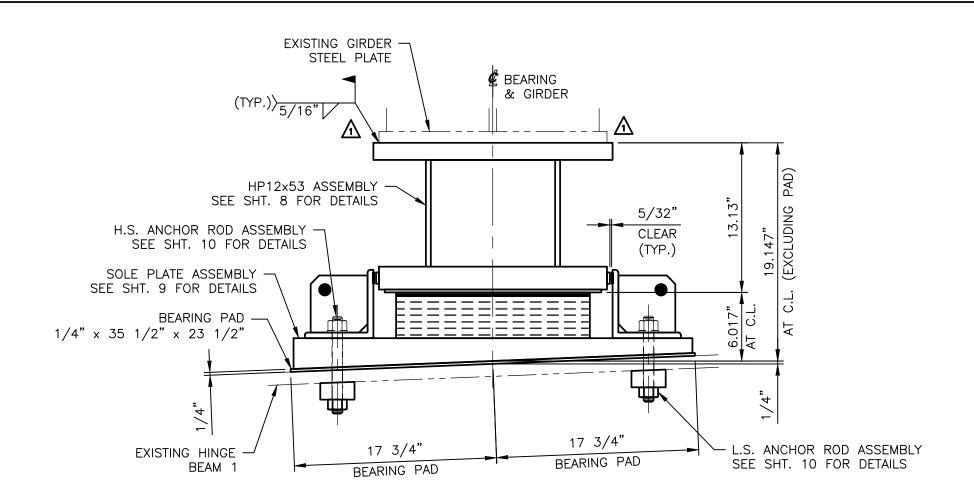
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S



1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

| | SCALE: | NI. | \cap NIE I | | 1414 | | | |
|-----|---------|-----|--------------|-------|--------|----|------------|----------|
| | SCALE. | IN | ONE | DATE: | 06/11/ | 19 | DATE: | 07/16/19 |
| /19 | SHEET | 6 | of 17 | JOB | NO.: | 15 | 5353B | 2 |
| | OLIOTA! | 455 | | | | | 0041111110 | |

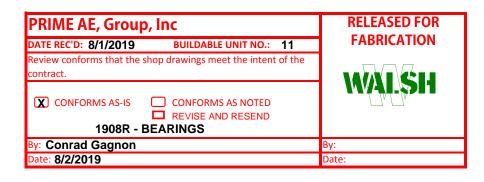
CHANGED HP10x57 TO HP10x42 PER DESIGN CHANGE. MH 07/26/19 ELS 07/29/ CUSTOMER
WALSH CONSTRUCTION CO. II DRAWING NUMBER REV. 15353B2-D6 1 DATE DATE



EXPANSION LAMINATED ELASTOMERIC BEARING ASSEMBLY (REF.: 0033) AT CARRIER BEAM

REFER TO EXP. BEARING TABLE #1 FOR MARK NO.'s, QTY.'S AND LOCATIONS (7) REQUIRED

| EXP. BEARING TABLE #1 | | | | | | | | | | | |
|-----------------------|------|----------|-------------------|--|--|--|--|--|--|--|--|
| MARK | | LOCATION | | | | | | | | | |
| NO. | QTY. | UNIT | GIRDER
NO. | | | | | | | | |
| EBA7-B | 1 | 2 | G3-U2 | | | | | | | | |
| EBA8-B | 2 | 2 | G5-U2 &
G8- U2 | | | | | | | | |
| EBA9-B | 1 | 2 | G6-U2 | | | | | | | | |
| EBA10-B | 1 | 2 | G9-U2 | | | | | | | | |
| EBA11-B | 1 | 2 | G11-U2 | | | | | | | | |
| EBA12-B | 1 | 2 | G12-U2 | | | | | | | | |



SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| STATE | COUNTY | PID NO. |
|-------|----------|---------|
| ОН | HAMILTON | 104667 |
| | () | |

FED. PROJ. NO.: E170 (713)

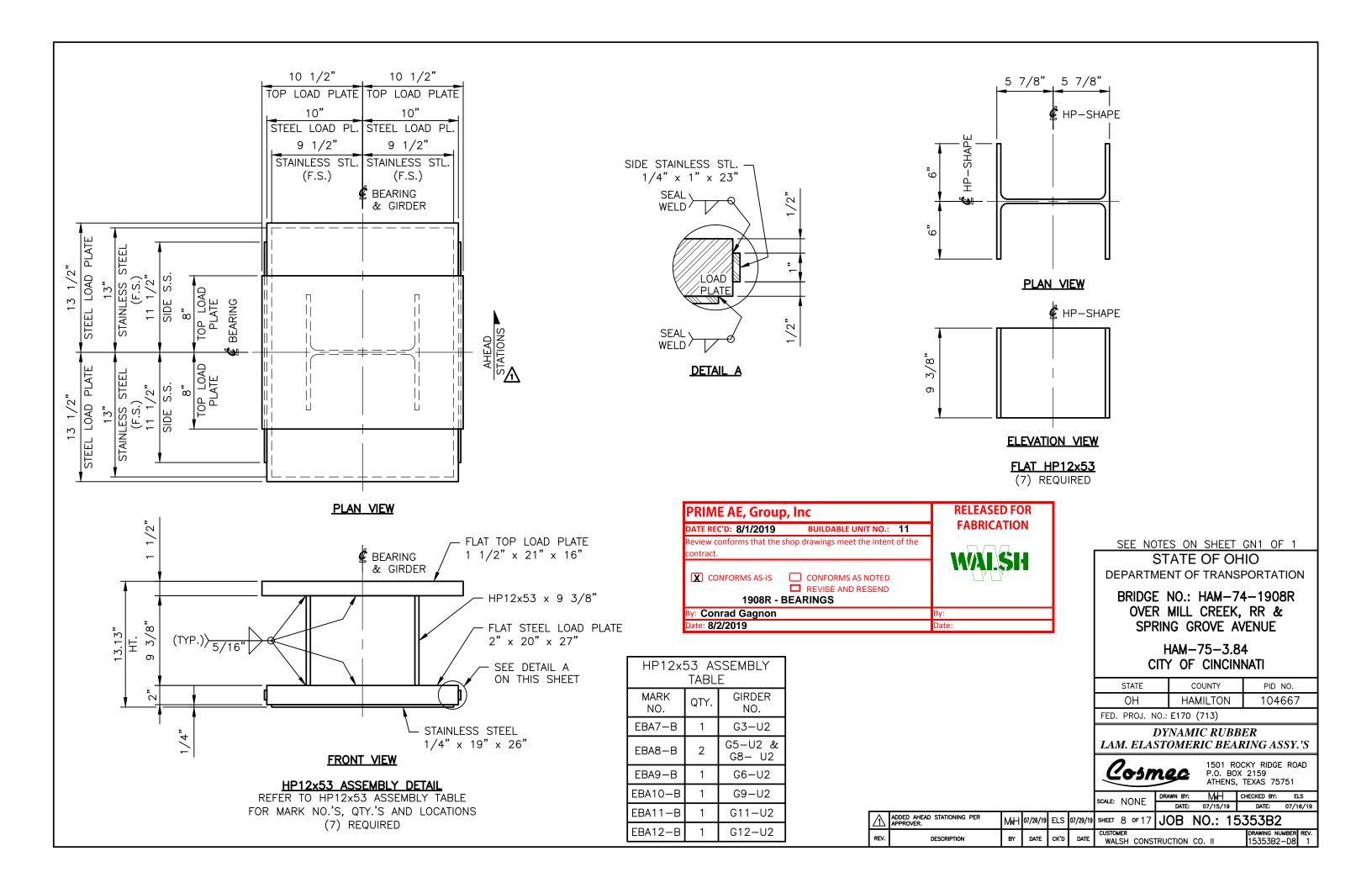
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S

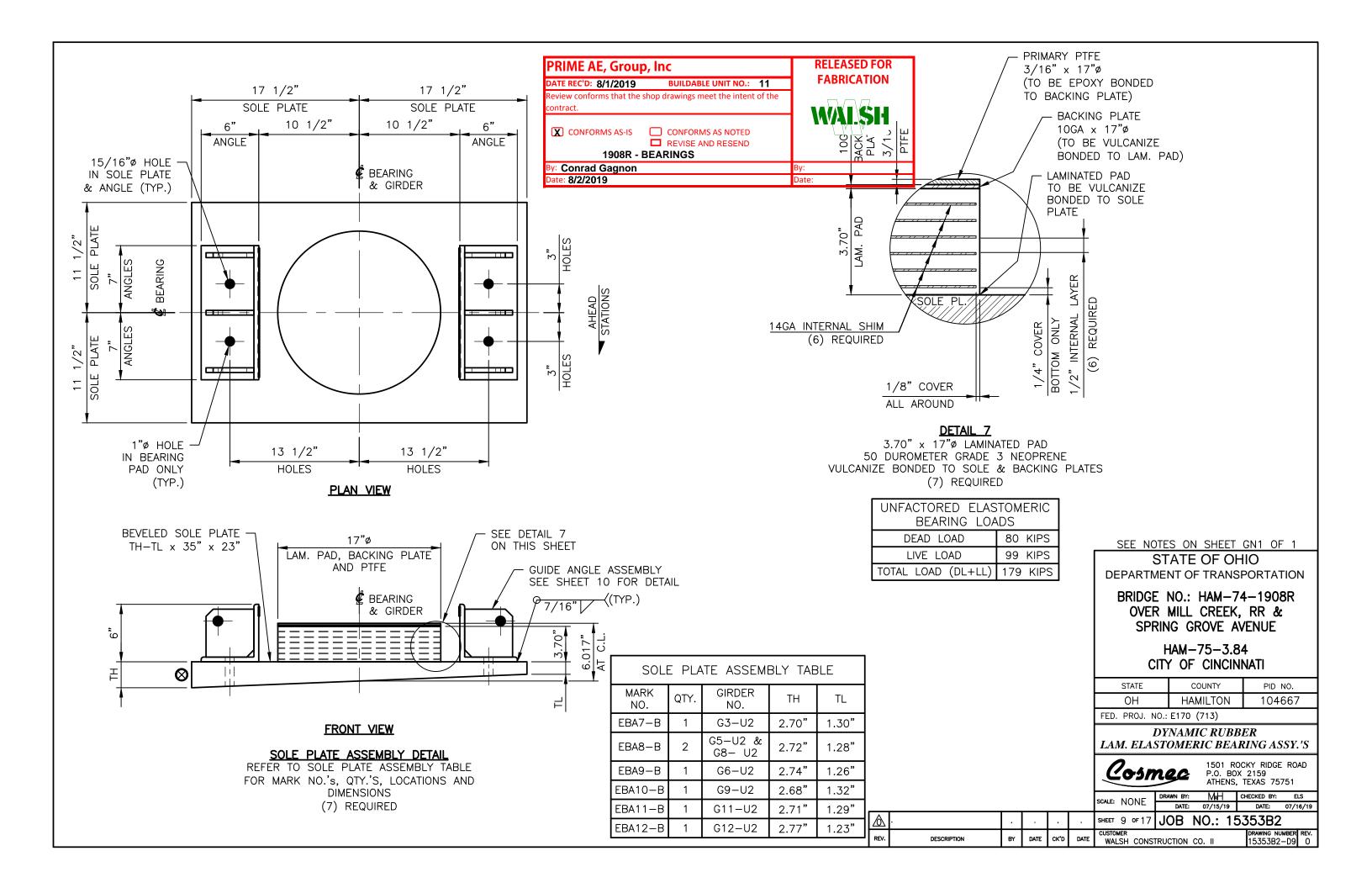


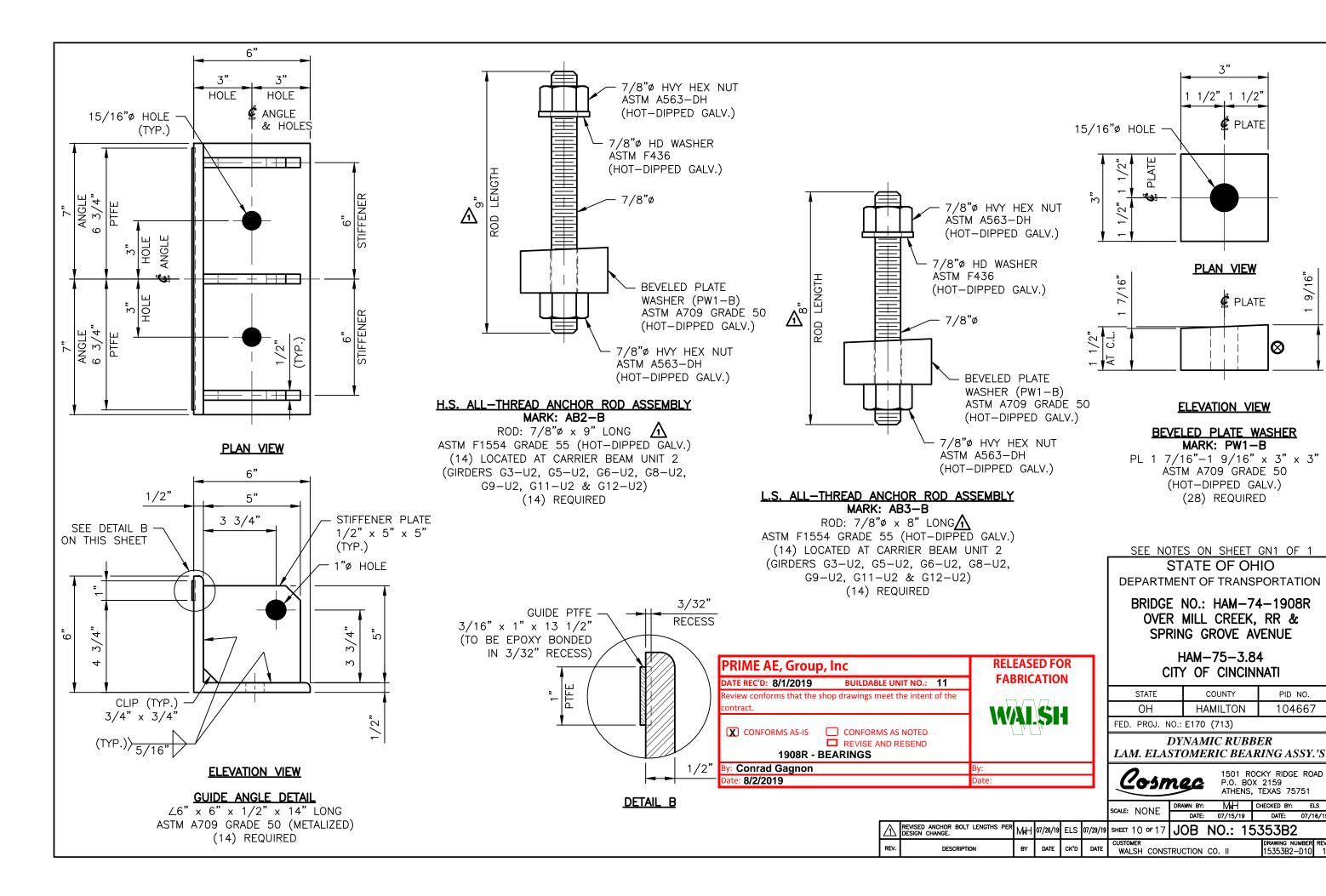
1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

| | SCALE. | NONE | DRAWN BY: | <u>MaH</u> | CHECKED BY: | ELS | |
|----|--------|---------|-----------|------------|-------------|----------|--|
| | SCALE: | NONE | DATE: | 07/15/19 | DATE: | 07/16/19 | |
| 19 | SHEET | 7 of 17 | JOB | NO.: 1 | 5353B2 | • | |

REVISED EXISTING GIRDER PLATE PER APPROVER NOTATIONS. MaH 07/26/19 ELS 07/29/ DRAWING NUMBER REV. 15353B2-D7 1 DATE DATE WALSH CONSTRUCTION CO. II







₡ PLATE

PLATE

|Ø

PID NO.

104667

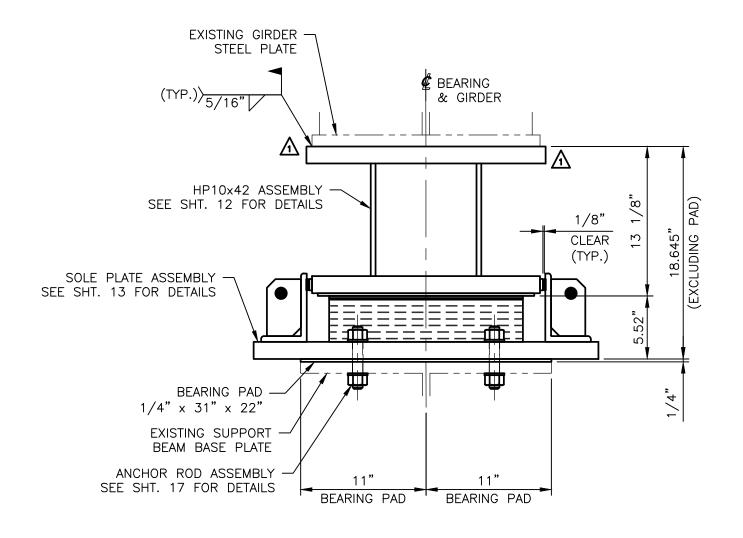
DATE: 07/16/19

1501 ROCKY RIDGE ROAD

MH CHECKED BY: ELS

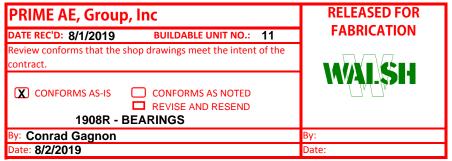
P.O. BOX 2159 ATHENS, TEXAS 75751

9/16"



EXPANSION LAMINATED <u>ELASTOMERIC BEARING ASSEMBLY (REF.: 0033)</u> AT HINGE SUPPORT — UNIT 2 MARK: EBA13—B

(4) LOCATED AT HINGE 1, UNIT 2 (GIRDERS G4-U2, G7-U2, G10-U2 & G13-U2) (4) REQUIRED



REVISED EXISTING GIRDER PLATE PER APPROVER NOTATIONS.

MaH 07/26/19

BY DATE

SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| ОН | HAMILTON | 104667 |
|----|----------|--------|
| UH | HAMILION | 104007 |

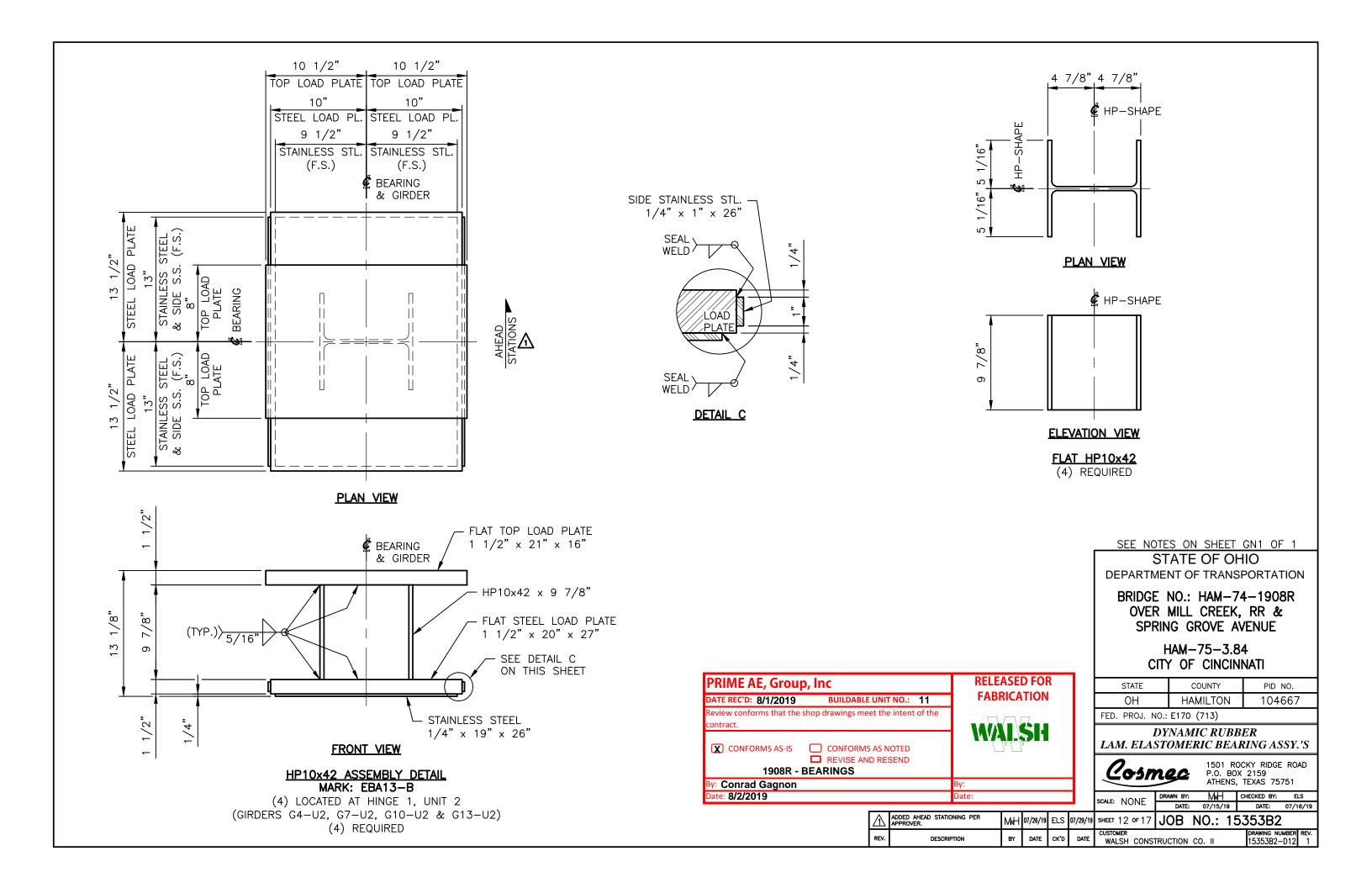
FED. PROJ. NO.: E170 (713)

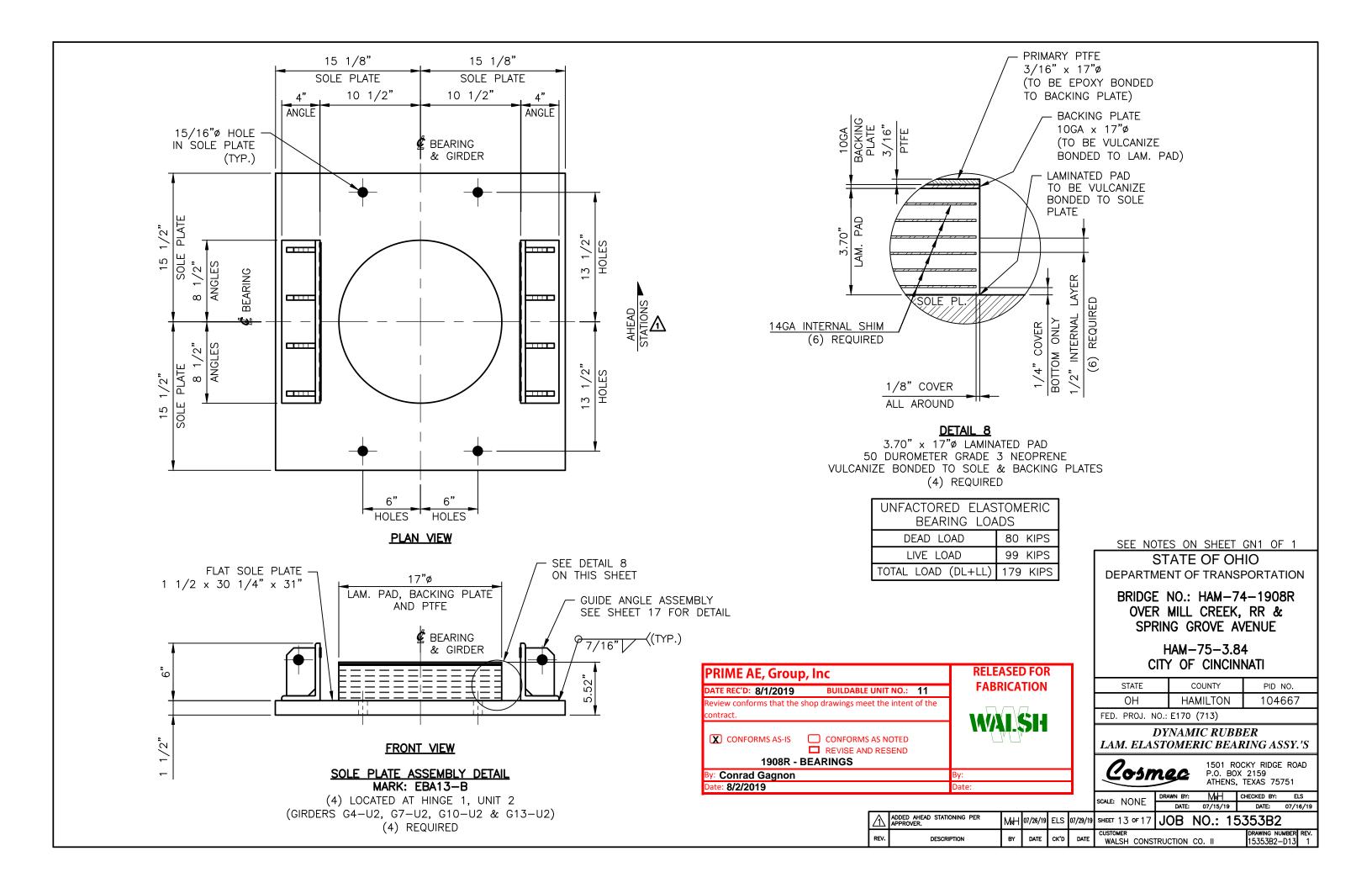
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S

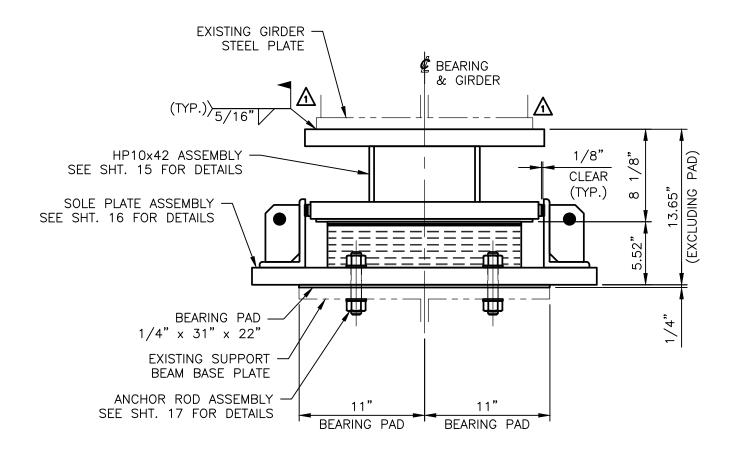


1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

| | • | SCALE: | NONE | DRAWN BY: | MaH | | CHECKED BY: | ELS |
|------|----------|----------------|----------|-----------|--------|----|------------------------|----------|
| | | SCALE: | INOINE | DATE: | 07/15/ | 19 | DATE: | 07/16/19 |
| ELS | 07/29/19 | SHEET | 11 of 17 | JOB | NO.: | 15 | 5353B2 | |
| CK'D | DATE | CUSTOM
WALS | | TRUCTION | CO. II | | DRAWING NU
15353B2- | |

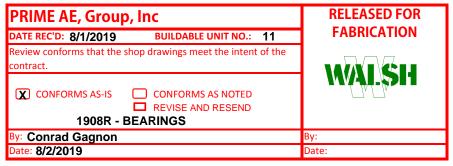






EXPANSION LAMINATED <u>ELASTOMERIC BEARING ASSEMBLY (REF.: 0033)</u> AT HINGE SUPPORT — UNIT 6 MARK: EBA14—B

(6) LOCATED AT HINGE 2, UNIT 6
(GIRDERS B3 THRU B8)
(6) REQUIRED



SEE NOTES ON SHEET GN1 OF 1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE NO.: HAM-74-1908R OVER MILL CREEK, RR & SPRING GROVE AVENUE

> HAM-75-3.84 CITY OF CINCINNATI

| ОН | HAMILTON | 104667 |
|-------|----------|---------|
| STATE | COUNTY | PID NO. |

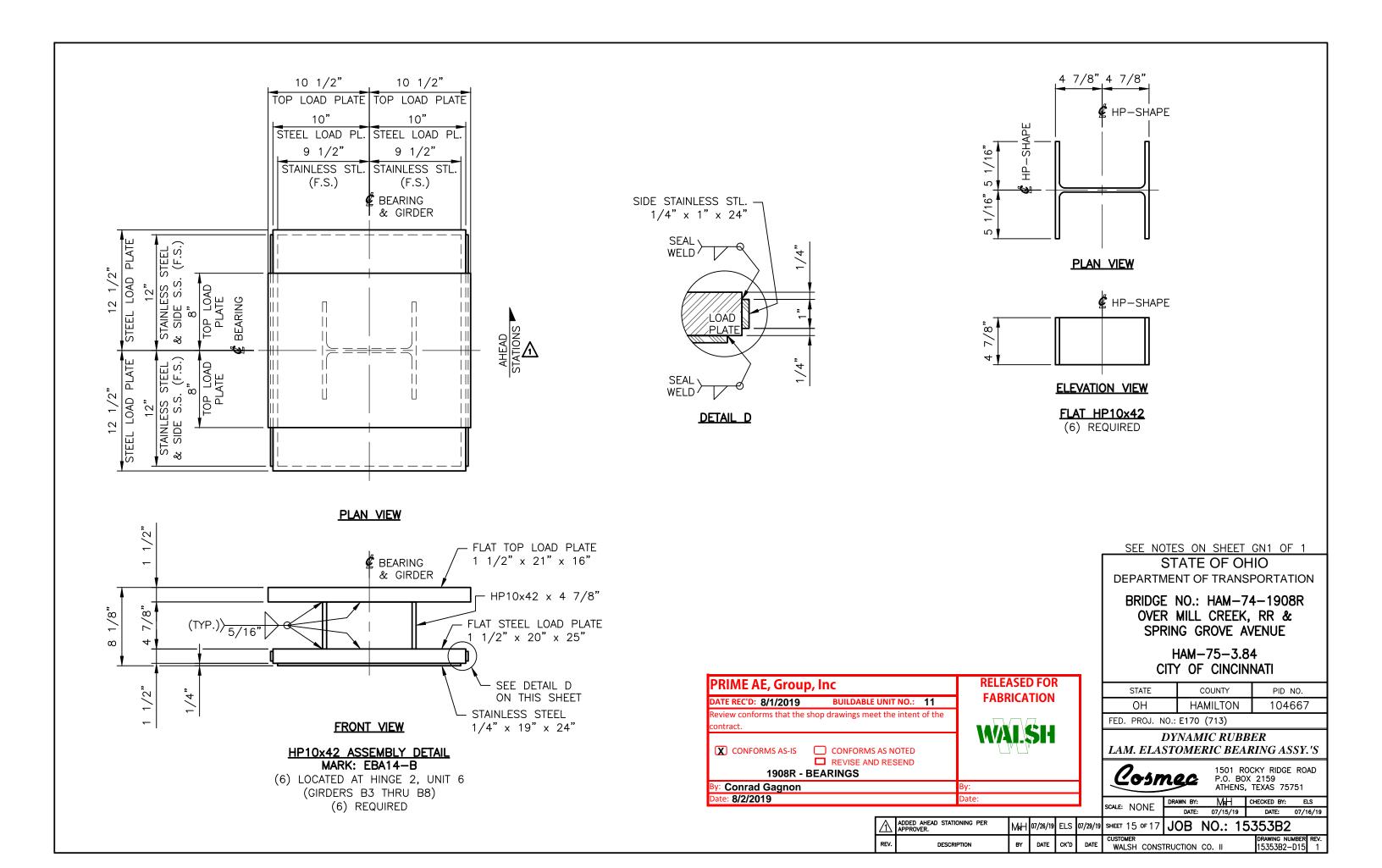
FED. PROJ. NO.: E170 (713)

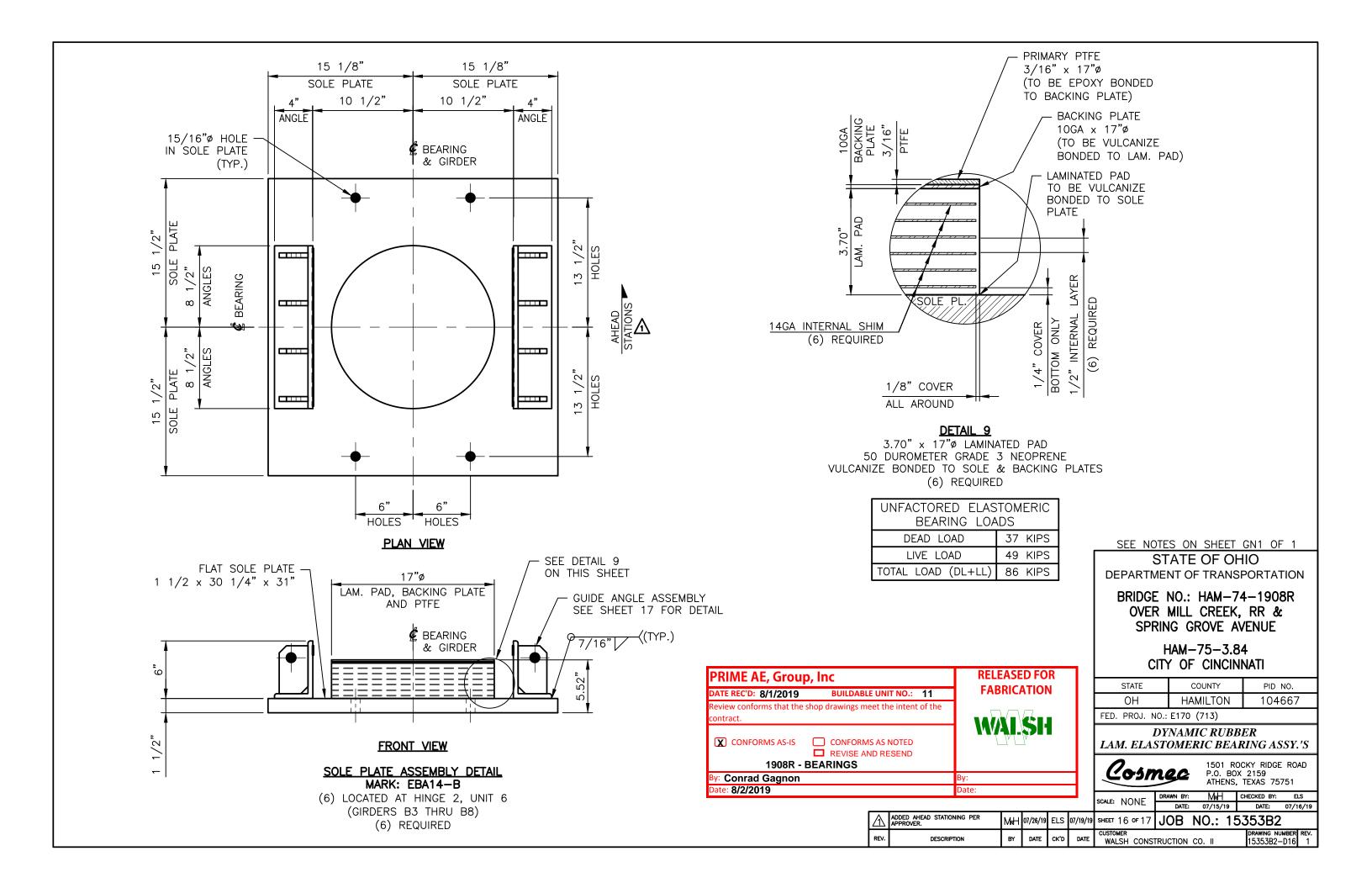
DYNAMIC RUBBER LAM. ELASTOMERIC BEARING ASSY.'S

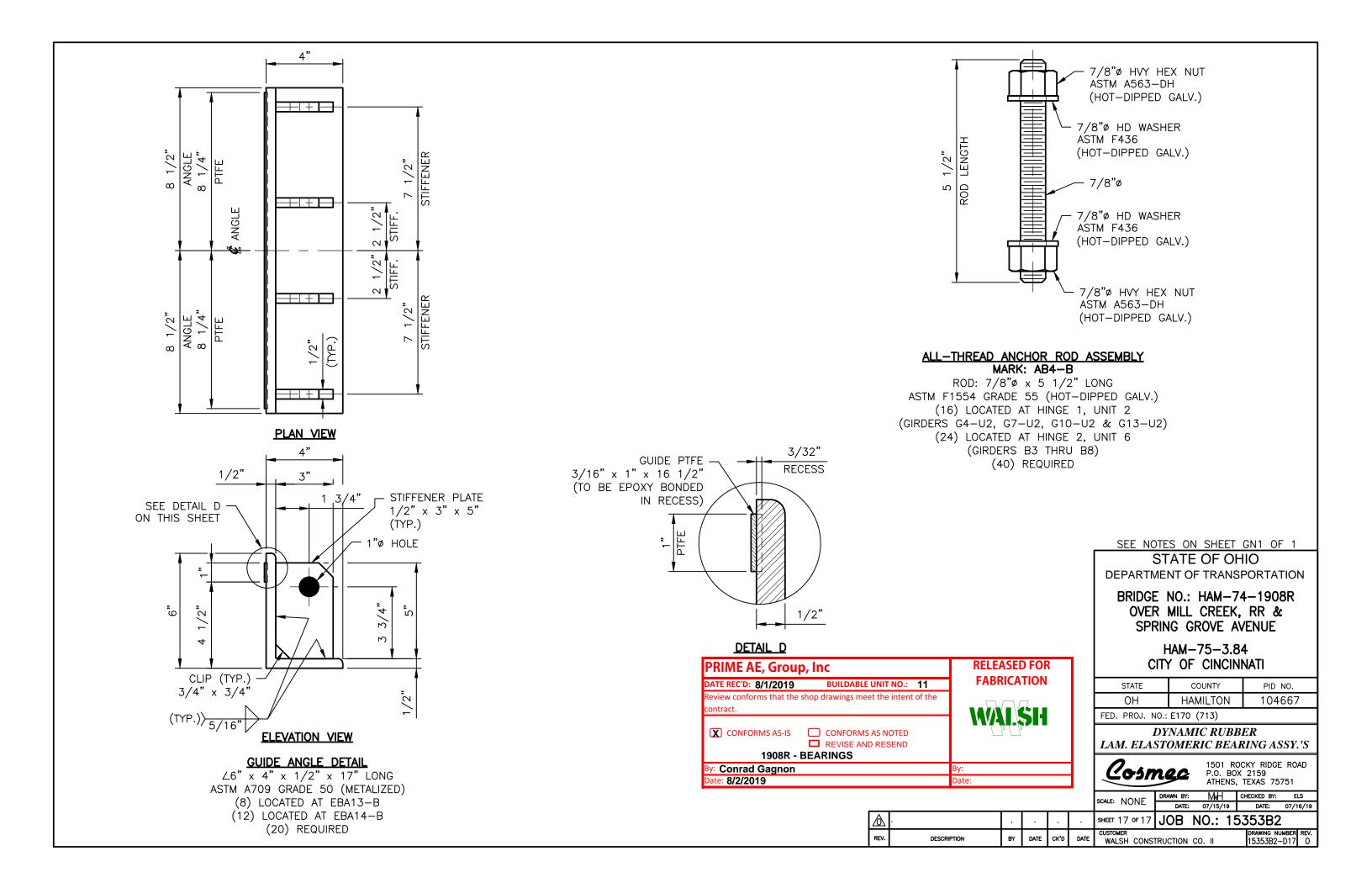


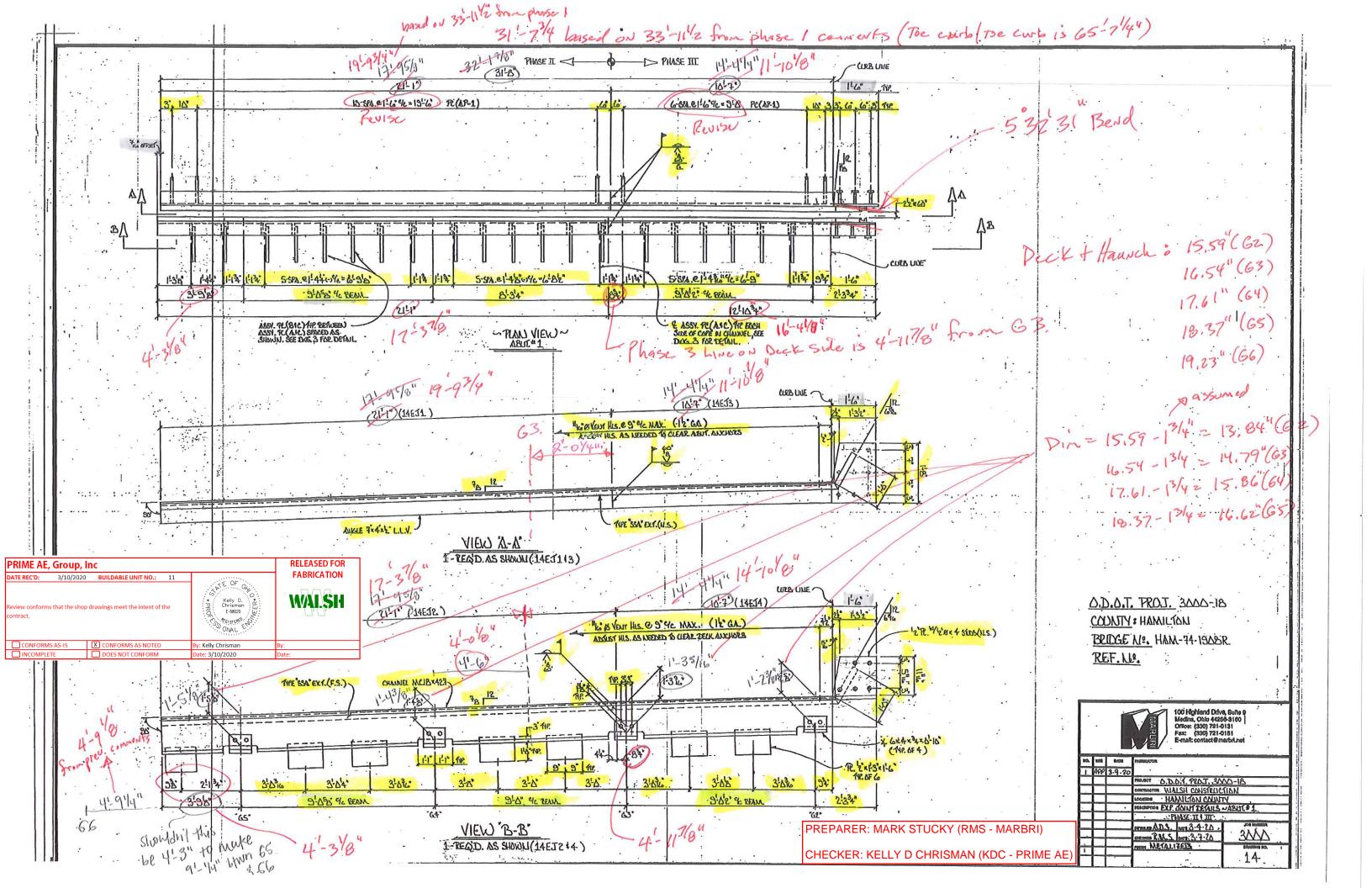
1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751

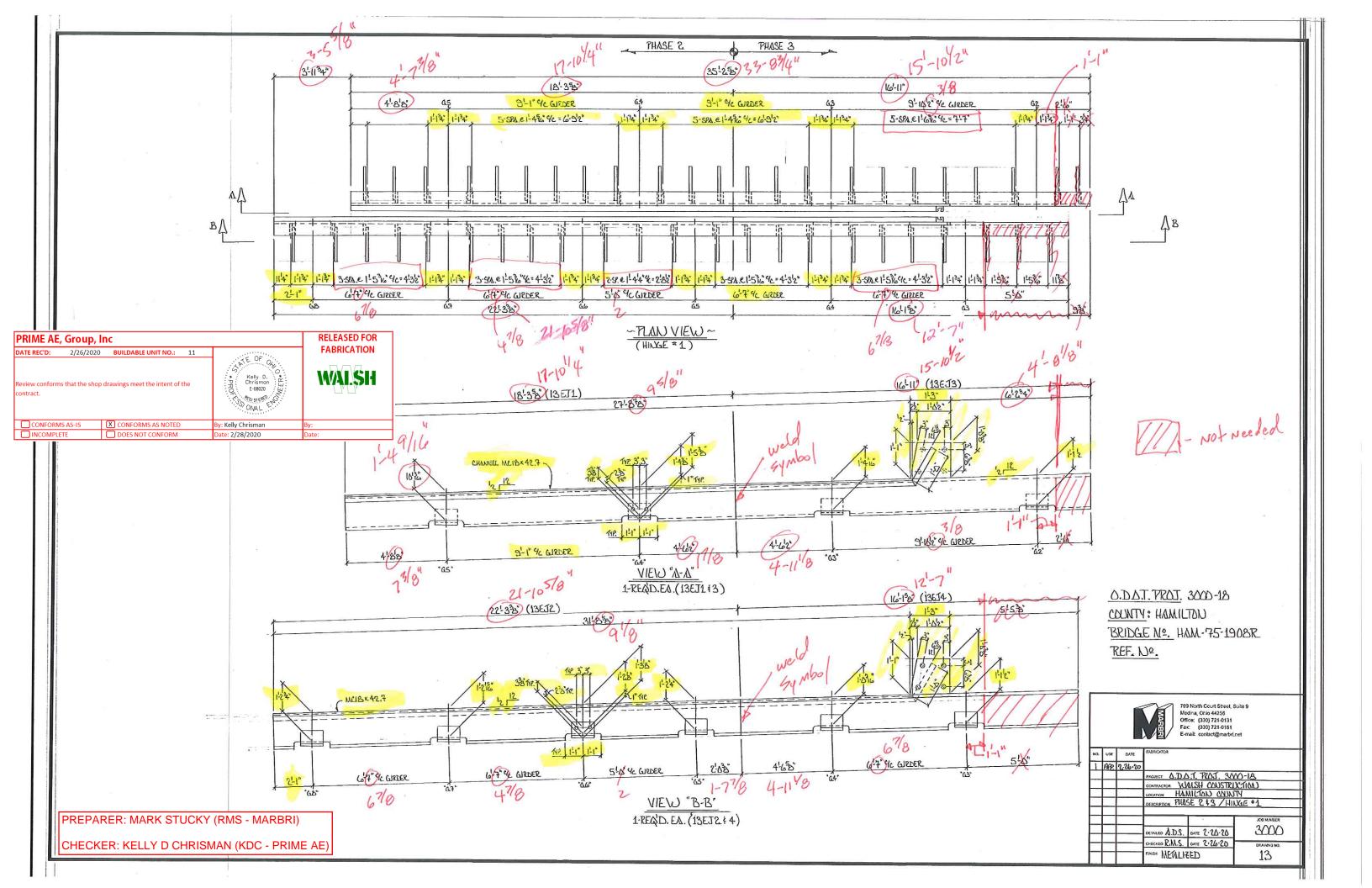
| | | SCALE: | NONE | DRAWN BY: | AWN BY: MaH I | | CHECKED BY: EL | | S | | | | |
|--|-------------------------------------------------------|--------|----------|-----------|---------------|--------------|----------------|----------|--------|-------|------------------------|--|-----------|
| | | | | | | DATE: | 07/15/ | 19 | DATE: | 07/16 | 3/19 | | |
| | REVISED EXISTING GIRDER PLATE PER APPROVER NOTATIONS. | МаН | 07/26/19 | ELS | 07/29/19 | SHEET | 14 of 17 | JOB | NO.: | 15 | 353B2 | | |
| | DESCRIPTION | BY | DATE | CK'D | DATE | custo
WAI | | TRUCTION | CO. II | | DRAWING NU
15353B2- | | REV.
1 |

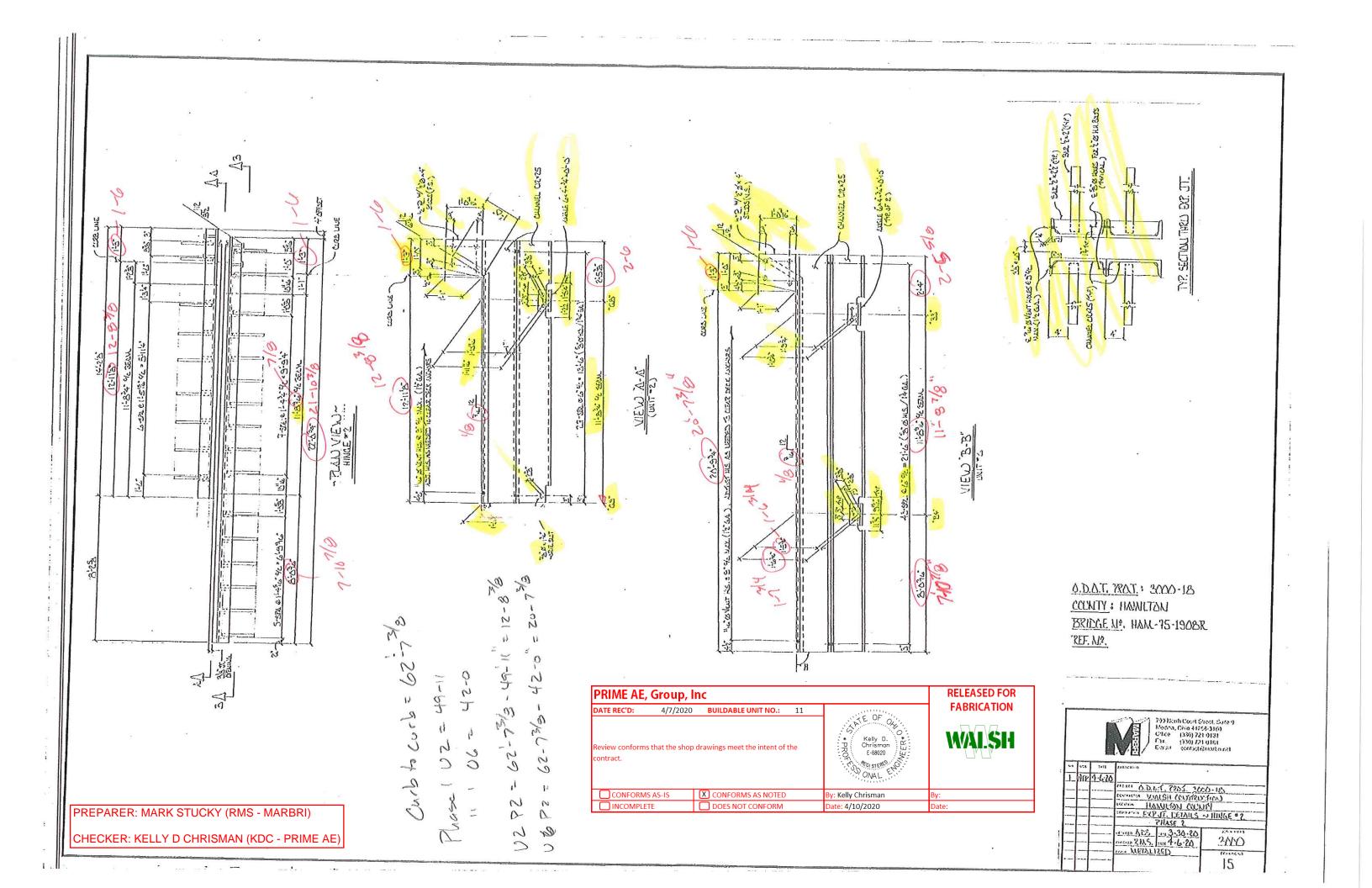


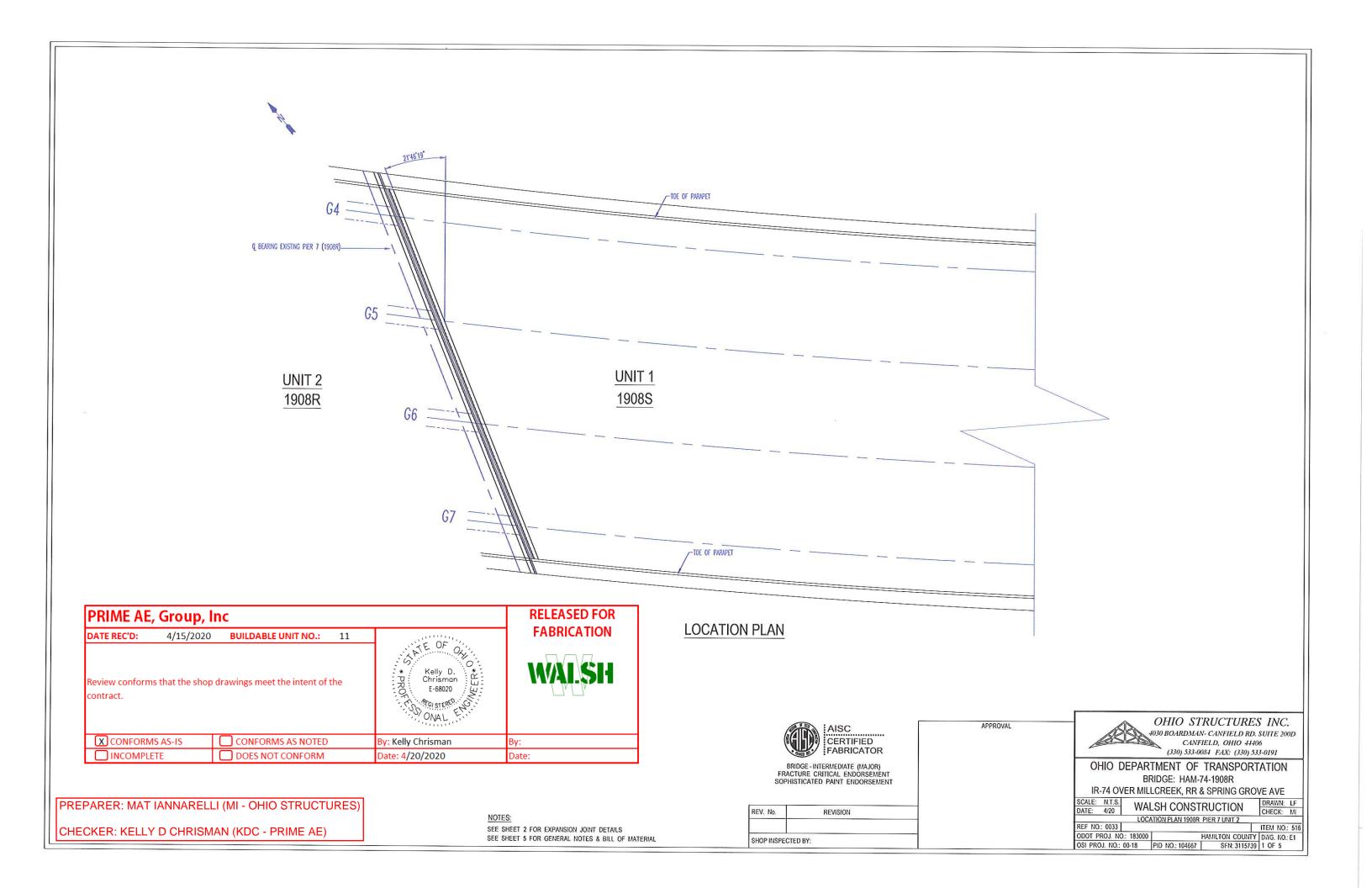


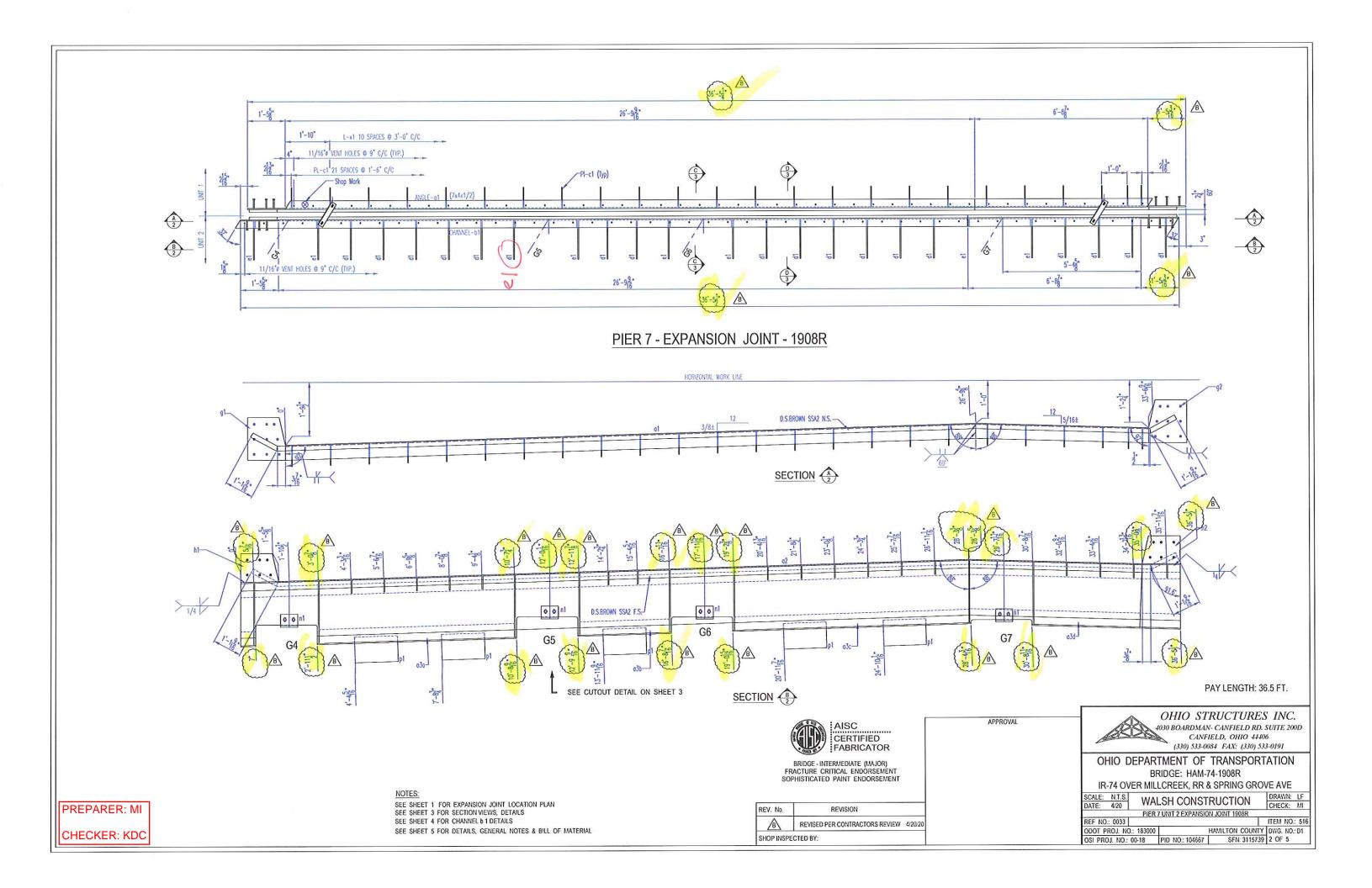


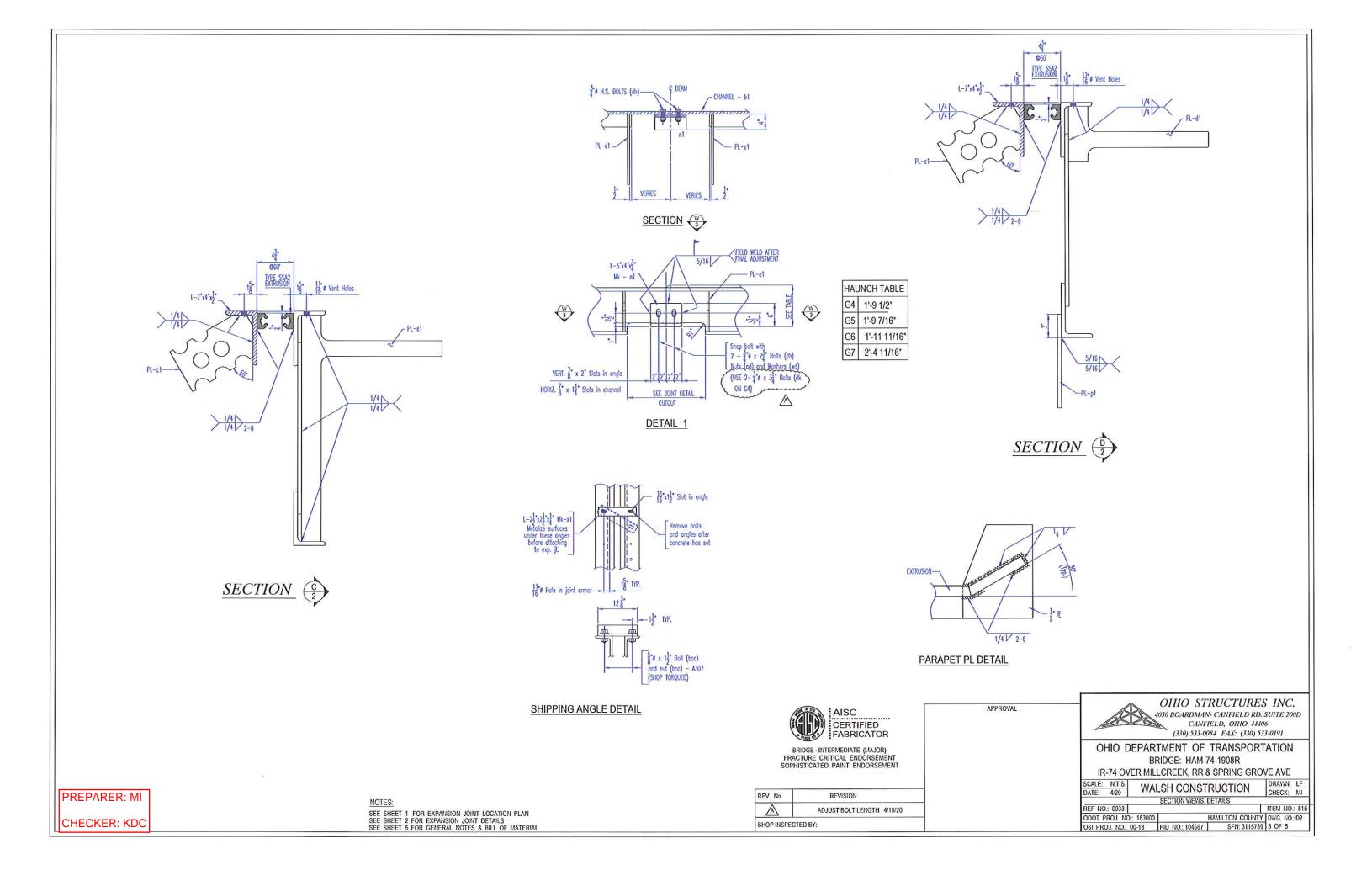


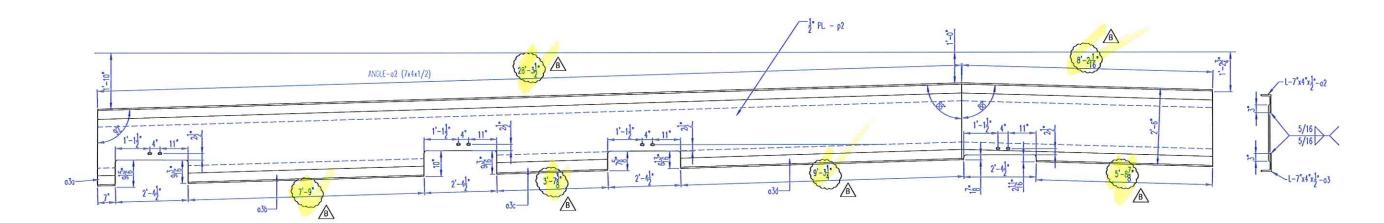




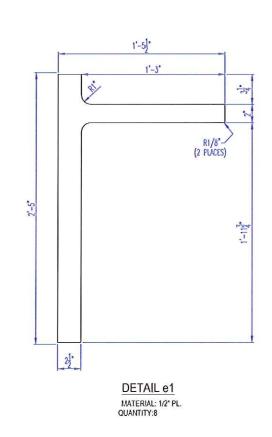


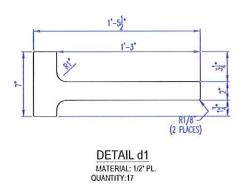


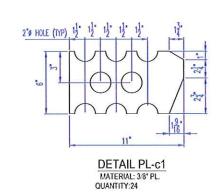




DETAILS CHANNEL - b1







APPROVAL



REV. No. REVISED PER CONTRACTORS REVIEW 4/20/20 SHOP INSPECTED BY:

BRIDGE - INTERMEDIATE (MAJOR) FRACTURE CRITICAL ENDORSEMENT SOPHISTICATED PAINT ENDORSEMENT

OHIO DEPARTMENT OF TRANSPORTATION BRIDGE: HAM-74-1908R

IR-74 OVER MILLCREEK, RR & SPRING GROVE AVE SCALE: N.T.S. DATE: 4/20 DRAWN: LF CHECK: MI

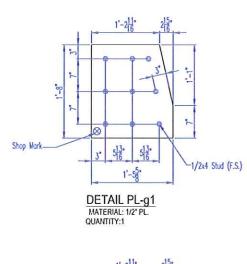
WALSH CONSTRUCTION DETAILS CHANNEL 61

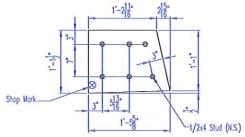
OHIO STRUCTURES INC.

4030 BOARDMAN- CANFIELD RD. SUITE 200D CANFIELD, OHIO 44406 (330) 533-0084 FAX: (330) 533-0191

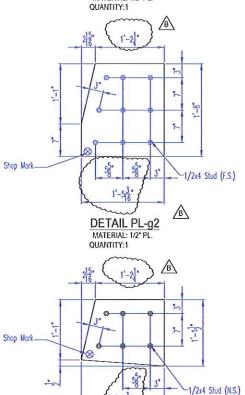
PREPARER: MI CHECKER: KDC

SEE SHEET 5 FOR DETAILS, GENERAL NOTES & BILL OF MATERIAL









DETAIL PL-h2

MATERIAL: 1/2" PL.

QUANTITY:1

PREPARER: MI

CHECKER: KDC

SEE SHEET 1 FOR EXPANSION JOINT LOCATION PLAN SEE SHEET 2 FOR EXPANSION JOINT DETAILS

| ODOI DOIL | ROJECT: 183000 | | | PID NO.: 104667 | | OSI PROJ. | #: 00-18 | | REF #:1 | | ITEM #: 516 |
|---------------------------------|----------------|----------------|--------------------|----------------------------------------------|------------------|--------------------|--------------|-----------------------------------------|-------------------------------------|--------|-------------|
| | | | | 1908R P | IER 7 U | NIT 2 EX | PANSION J | OINT | | | |
| MATERIALS | ONLY: | | | | | | | | | | |
| LINE | PO# | QTY | MARK | SECTION | LENGTH
(FEET) | LENGTH
(INCHES) | STL SPEC | PC WT
(IN LBS) | NET WT
(IN LBS) | HEAT# | REMARKS |
| 1 | | 1 | | ANGLE 7x4x1/2 | 33 | 9 | A709-50 | 604.13 | 604.13 | | |
| 2 | | 1 | | ANGLE 7x4x1/2 | 36 | 5 1/2 | A709-50 | 652.60 | 652.60 | | |
| 3 | | 1 | | ANGLE 7x4x1/2 | 0 | 7 | A709-50 | 10.44 | 10.44 | | |
| 4 | | 1 | | ANGLE 7x4x1/2 | 7 | 9 1/8 | A709-50 | 138.26 | 138.26 | | |
| 5 | | 1 | | ANGLE 7x4x1/2 | 3 | 10 7/8 | A709-50 | 69.92 | 69.92 | | |
| 6 | | 1 | | ANGLE 7x4x1/2 | 17 | 4 11/16 | A709-50 | 311.29 | 311.29 | | |
| 7 | | 11 | | ANGLE 2-1/2x2-1/2x1/4 | 1 | 3/8 | A709-36 | 4.23 | 46.51 | | SHIPPING |
| 8 | | 4 | | ANGLE 6x4x3/4 | 0 | 8 | A709-50 | 15.73 | 62.93 | | |
| 9 | | 24 | | PLATE 3/8 x 6 | 0 | 11 | A709-36 | 5.02 | 120.48 | | |
| 10 | | 8 | | PLATE 1/2 x 29 | 1 | 5 1/2 | A709-36 | 14.74 | 117.92 | | |
| 11 | | 17 | | PLATE 1/2 x 7 | 1 | 5 1/2 | A709-36 | 6.94 | 117.98 | | |
| 12 | | 4 | | PLATE 1/2 20 | 1 | 0 | A709-50 | 34.03 | 136.12 | | |
| 13 | | 1 | | PLATE 1/2 22 | 36 | 6 3/8 | A709-50 | 1,355.81 | 1,355.81 | | |
| 14 | | 1 | | PLATE 1/2 20 | 1 | 5 5/8 | A709-36 | 47.28 | 47 28 | | |
| 15 | | 1 | | PLATE 1/2 20 | 1 | 5 3/16 | A709-36 | 48.64 | 48.64 | | |
| 16 | | 1 | | PLATE 1/2 13 1/2 | 1 | 5 5/8 | A709-36 | 30.35 | 30.35 | | |
| 17 | | 1 | h2 | PLATE 1/2 x 13 1/2 | 1 | 5 3/16 | A709-36 | 31.67 | 31.67 | | |
| HARDWARE | ONLY: | | | | | | | SUB TOTAL | 3,902.34 | | |
| LINE | | QTY | MARK | DESCRI | PTION | | STL SPEC | WT PER
(IN LBS) | NET WT
(IN LBS) | HEAT# | REMARKS |
| 18 | | 30 | ~~ | 1/2" x 4" STUD | | | A108 | 0.29 | 8.70 | | |
| 19 | | 6 | | 3/4x2-3/4 HEX HEAD BOLT | | | A325 Galv | 0.48 | 2.89 | | |
| 19 | | 2 | dk | 3/4x3-1/4 HEX HEAD BOLT | | | A325 Galv | 0.54 | 1.08 | | |
| | | 8 | | 3/4 HEAVY HEX NUT | | | A563 Galv | 0.20 | 1.60 | | _ |
| 20 | | 8 | | 3/4 FLAT WASHER | | | F436 Galv | 0.04 | 0.33 | | |
| 20 | | | | | | | 1 100 001 | - | | | |
| 21 | | | | 5/8x1-1/2 HEX HEAD BOLT | | | A307 | 0 22 | 4 771 | | |
| | | 22 | boc | 5/8x1-1/2 HEX HEAD BOLT
5/8 HEAVY HEX NUT | | | A307
A307 | 0.12 | 4.77
2.64 | | |
| 21
22
23 | | 22 | boc | | | | | | | | |
| 21 22 | | 22 | boc | | | | | 0.12
SUB TOTAL | 2.64
22.01 | | |
| 21
22
23 | | 22
22
21 | boc
bnc
MARK | 5/8 HEAVY HEX NUT | DESCRIPTION | | | 0.12 | 2.64 | HEAT # | REMARKS |
| 21
22
23
MISC: | | 22 | boc
bnc
MARK | 5/8 HEAVY HEX NUT | ROWN) x 23'- | 0" A709- | A307 | 0.12
SUB TOTAL | 2.64
22.01
NET WT | HEAT # | REMARKS |
| 21
22
23
MISC:
LINE | | 22
22
21 | boc
bnc
MARK | 5/8 HEAVY HEX NUT | ROWN) x 23'- | 0" A709- | A307 | 0.12
SUB TOTAL
WT PER
(IN LBS) | 2.64
22.01
NET WT
(IN LBS) | HEAT # | REMARKS |

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.

TOTAL WT 4,309.55

- * ALL INFORMATION & DIMENSIONS ARE TO BE APPROVED BY THE CONTRACTOR PRIOR TO COMMENCING FABRICATION.
- * GENERAL TOLERANCE ±1/8" UNLESS NOTED.



BRIDGE-INTERMEDIATE (MAJOR) FRACTURE CRITICAL ENDORSEMENT SOPHISTICATED PAINT ENDORSEMENT

REV. No. REVISION REVISED PER CONTRACTORS REVIEW 4/20/20 SHOP INSPECTED BY:

APPROVAL

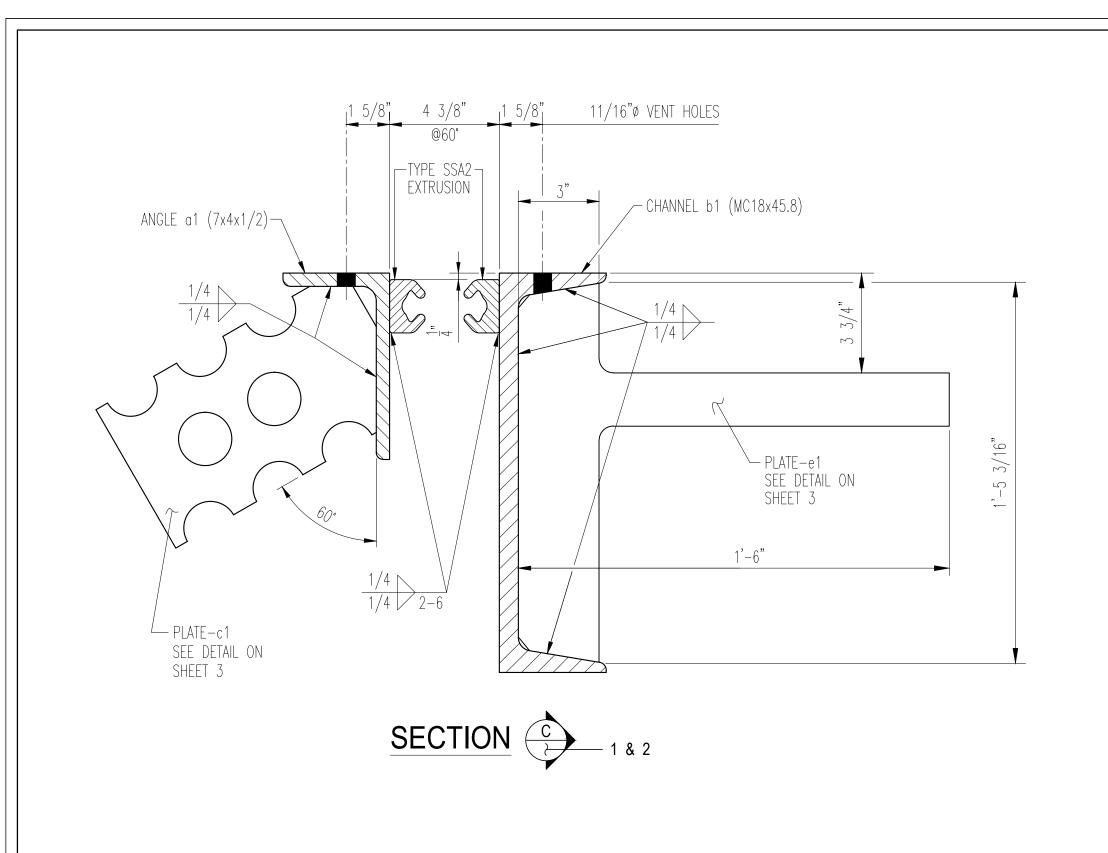


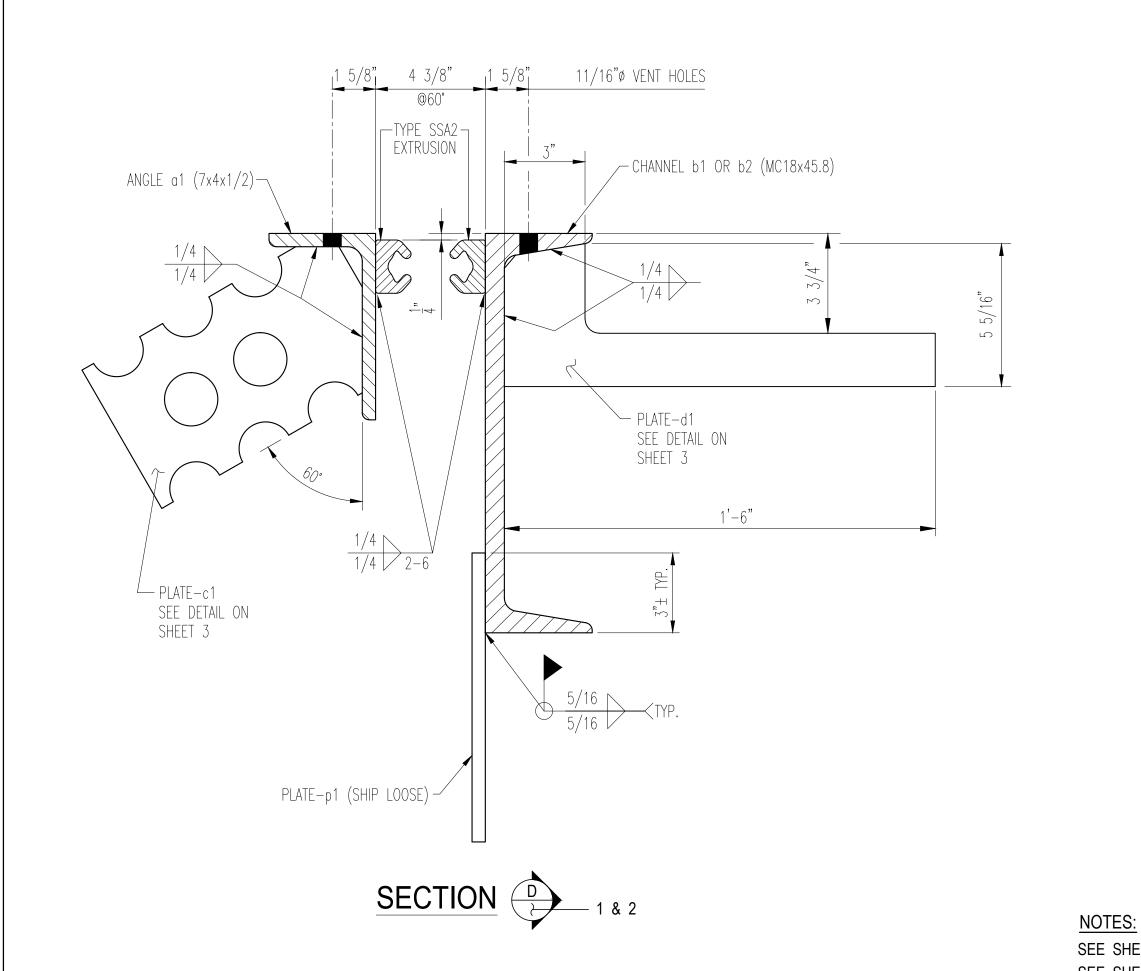
OHIO STRUCTURES INC. 4030 BOARDMAN- CANFIELD RD. SUITE 200D CANFIELD, OHIO 44406

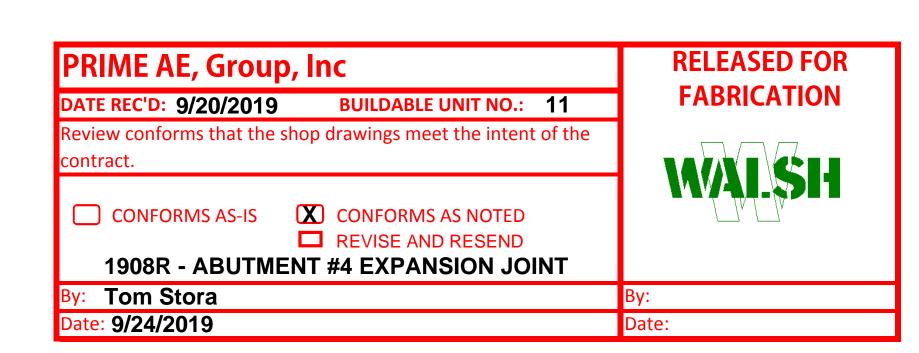
(330) 533-0084 FAX: (330) 533-0191 OHIO DEPARTMENT OF TRANSPORTATION

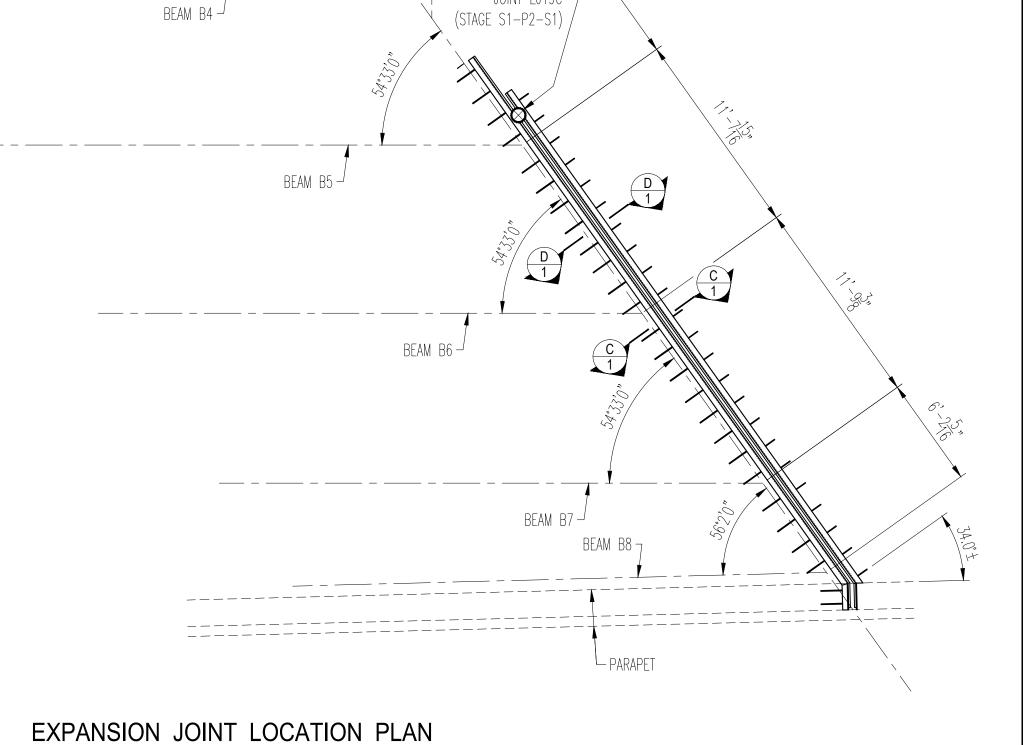
BRIDGE: HAM-74-1908R IR-74 OVER MILLCREEK, RR & SPRING GROVE AVE

SCALE: N.T.S. DATE: 4/20 DRAWN: LF WALSH CONSTRUCTION CHECK: MI DETAILS, GENERAL NOTES, MATERISL LIST REF NO.: 1 HAMILTON COUNTY DWG. NO.: D4 ODOT PROJ. NO.: 183000 OSI PROJ. NO.: 00-18 PID NO.: 104667









APPROVAL

NEW EXPANSION — JOINT EJ19C /



G BEARING ABUTMENT 4

BEAM B1-

BEAM B2 ^J

BEAM B3-

BRIDGE - INTERMEDIATE (MAJOR) FRACTURE CRITICAL ENDORSEMENT SOPHISTICATED PAINT ENDORSEMENT

REVISION REV. No. SHOP INSPECTED BY:

OHIO STRUCTURES INC. 535 NORTH BROAD STREET SUITE 5 CANFIELD, OHIO 44406

OHIO DEPARTMENT OF TRANSPORTATION BRIDGE: HAM-74-1908R

(330) 533-0084 FAX: (330) 533-0191

ITEM NO.: 516

SFN: 3115739 1 OF 3

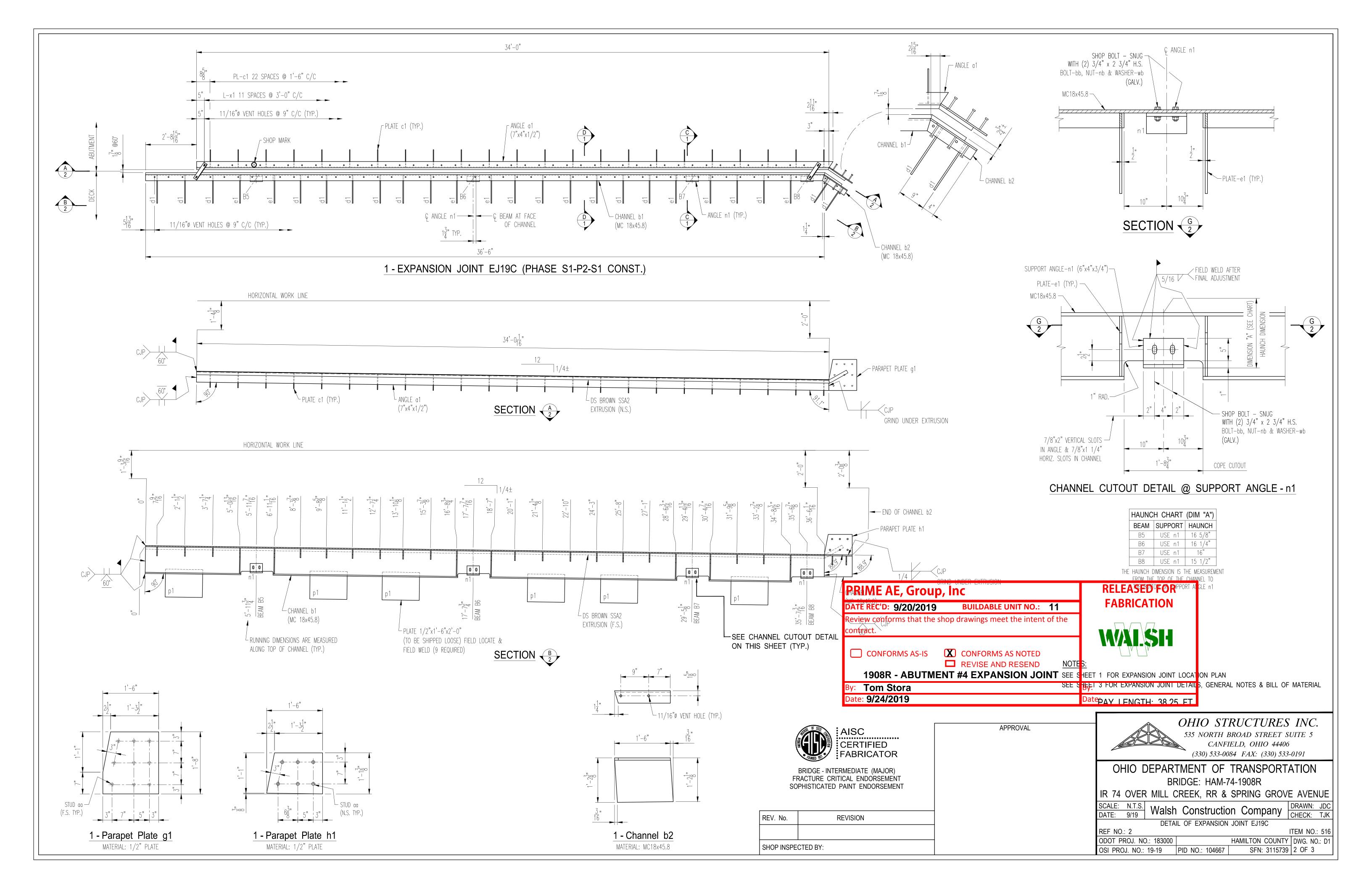
IR 74 OVER MILL CREEK, RR & SPRING GROVE AVENUE

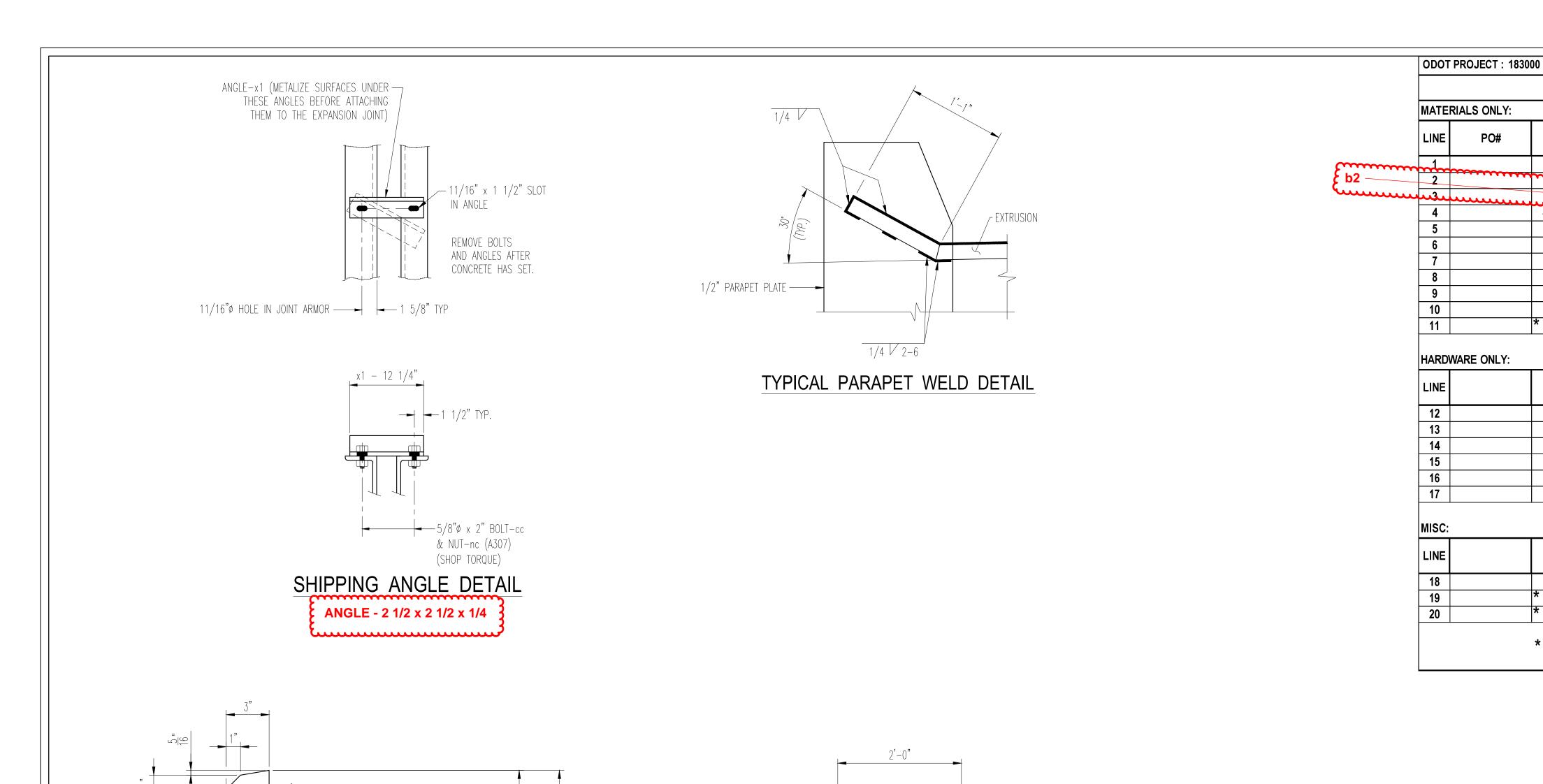
SCALE: N.T.S. DATE: 9/19 Walsh Construction Company CHECK: TJK EXPANSION JOINT LOCATION PLAN

REF NO.: 2 HAMILTON COUNTY DWG. NO.: E1 ODOT PROJ. NO.: 183000

OSI PROJ. NO.: 19-19 PID NO.: 104667

SEE SHEET 2 FOR DETAIL OF EXPANSION JOINT EJ19C SEE SHEET 3 FOR EXPANSION JOINT DETAILS, GENERAL NOTES & BILL OF MATERIAL





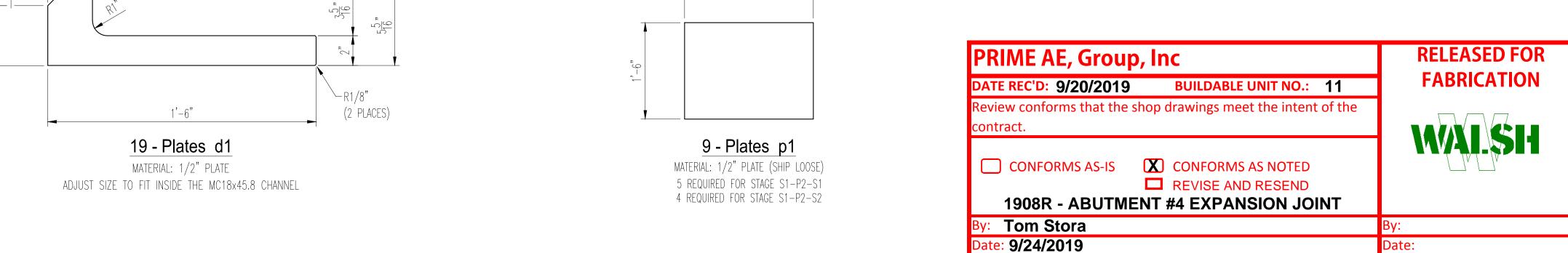
R1/8"→ (2 PLACES)

(2 PLACES)

7 - Plates e1

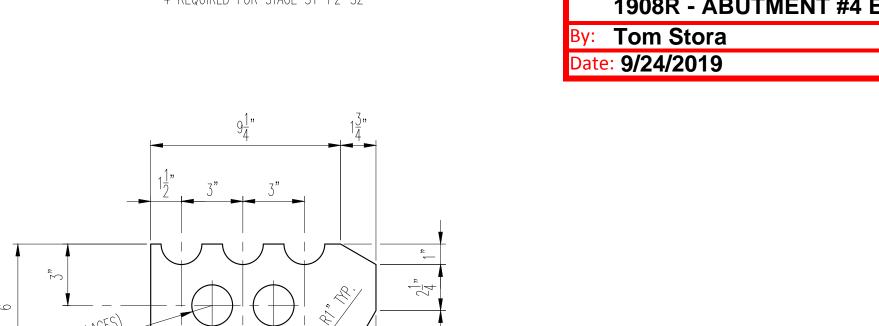
MATERIAL: 1/2" PLATE

ADJUST SIZE TO FIT INSIDE THE MC18x45.8 CHANNEL



23 - Plates c1

MATERIAL: 3/8" PLATE



AISC

CERTIFIED
FABRICATOR

BRIDGE - INTERMEDIATE (MAJOR)
FRACTURE CRITICAL ENDORSEMENT
SOPHISTICATED PAINT ENDORSEMENT

REV. No. REVISION

SHOP INSPECTED BY:

GENERAL NOTES:

PID #: 104667

SECTION

19 | d1 | PLATE 1/2 x 5 5/16 | 1 | 6

1 | h1 | PLATE 1/2 x 13 1/4 | 1 | 6

QTY MARK

QTY | MARK

QTY | MARK

1 a1 ANGLE 7x4x1/2

4 n1 ANGLE 6x4x3/4

12 x1 ANGLE 2-1/2x2-1/2x1/4

7 | e1 | PLATE 1/2 x 17 3/16 |

8 | bb | 3/4x2-3/4 HEX HEAD BOLT

8 nb 3/4 HEAVY HEX NUT

8 wb 3/4 FLAT WASHER

24 cc 5/8x2 HEX HEAD BOLT

3.20 --- SSA2 EXTRUSION x 23'-0"

1 --- | A2R-400 STRIP SEAL x 42'-0"

--- GALLON OF SEAL GLUE

*INDICATES AN ITEM THAT WILL BE SHIPPED LOOSE

APPROVAL

24 nc 5/8 HEAVY HEX NUT

23 | c1 | PLATE 3/8 x 6

1 | g1 | PLATE 1/2 x 18

15 | aa | 1/2"x4" STUD

MC18x45.8

1 b1 MC18x45.8

* MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ODOT-CMS-2016.

OSI PROJECT #: 19-19

PC WT | NET WT

(IN LBS) (IN LBS)

1,673.13 1,673.13

612.70

69.65

62.93

50.23

113.16

121.22

79.03

31.20

545.40

3.85

1.60

0.33

6.14

2.88

19.15

612.70

69.65

15.73

4.92

6.38

11.29

48.75

31.20

60.60

|SUB TOTAL 3,407.41|

WT PER | NET WT

(IN LBS) (IN LBS)

0.29

0.48

0.20

0.04

0.26

0.12

WT PER | NET WT

(IN LBS)

390.08

390.08

0.00

SUB TOTAL

(IN LBS)

SUB TOTAL

121.90

0.00

0.00

TOTAL WT 3,816.64

1 - EXPANSION JOINT EJ19C

LENGTH LENGTH (FEET) (INCHES)

34 | 2 3/4 | A709-50 |

36 | 6 3/8 | A709-50

1 | 6 1/4 | A709-50

1 | 1/4 | A709-36

A709-50

A709-36

A709-36

A709-36

A709-36

A709-36

A709-50

STL SPEC

A325 Galv

A563 Galv

F436 Galv

A307

A307

A709-36

0 | 8

0 | 11

2 | 0

DESCRIPTION

DESCRIPTION

REF #: 2

SHIPPING

REMARKS

SHIPPING

SHIPPING

REMARKS

D.S. BROWN

D.S. BROWN

D.S. BROWN

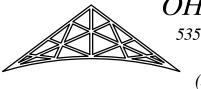
REMARK

HEAT #

HEAT #

HEAT #

- * WELDING SHALL BE IN ACCORDANCE WITH AWS/AASHTO D1.5-10 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.



OHIO STRUCTURES INC.
535 NORTH BROAD STREET SUITE 5

CANFIELD, OHIO 44406 (330) 533-0084 FAX: (330) 533-0191

OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE: HAM-74-1908R

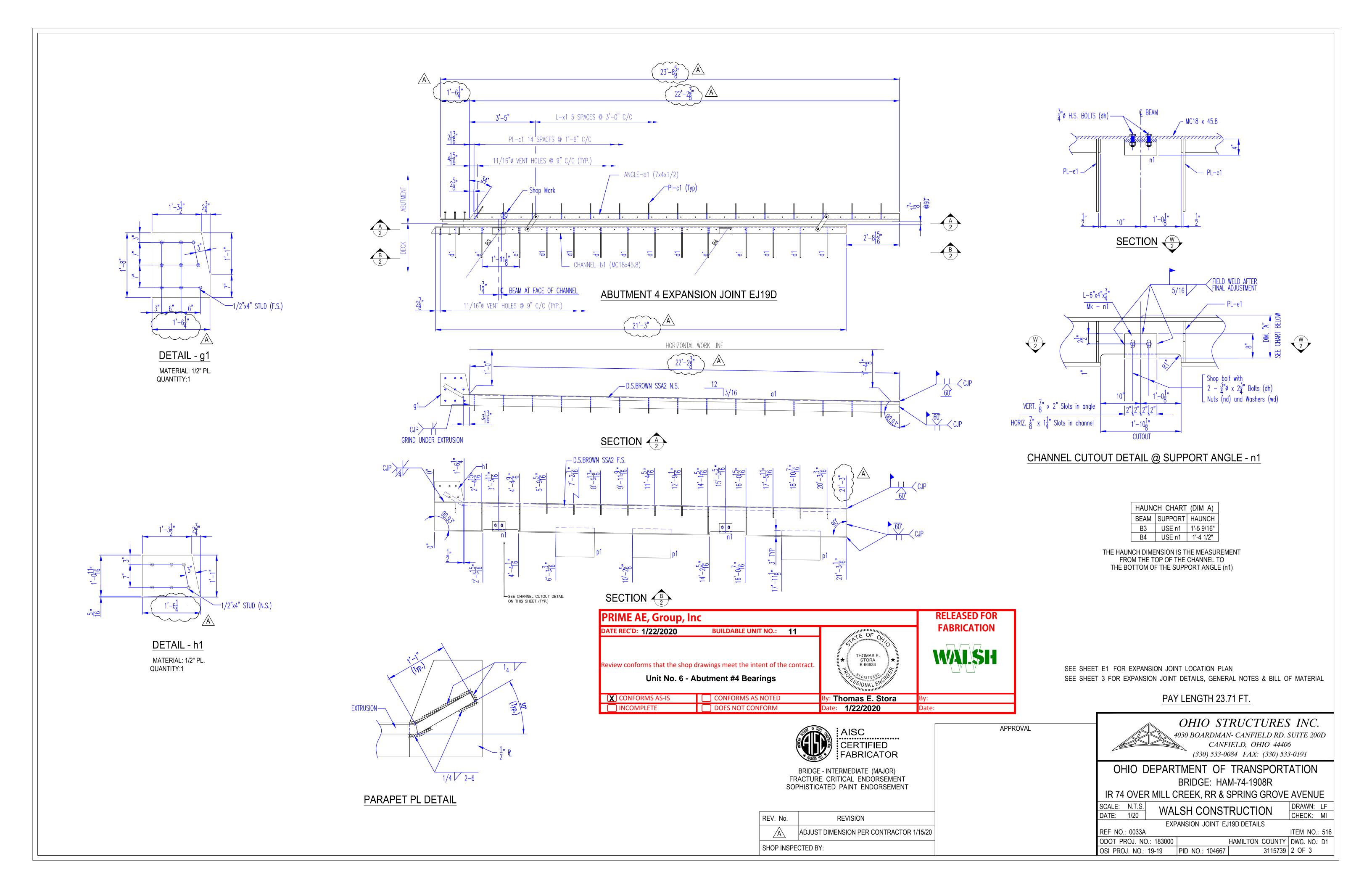
IR 74 OVER MILL CREEK, RR & SPRING GROVE AVENUE

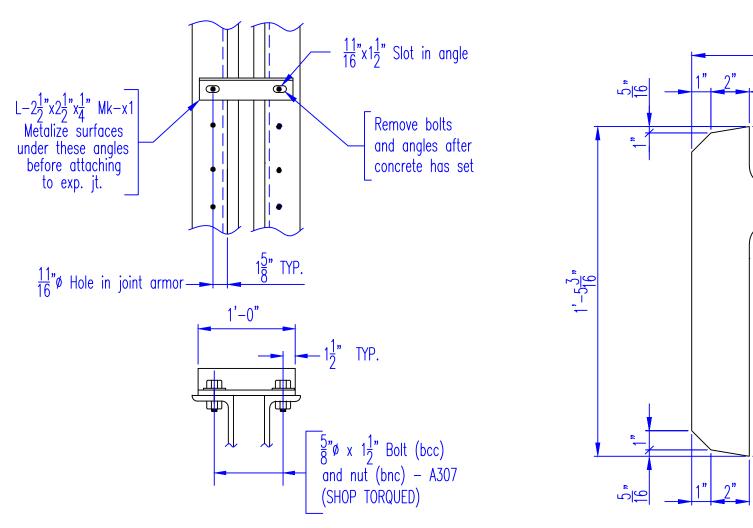
SCALE: N.T.S. DATE: 9/19 Walsh Construction Company CHECK: TJK EXPANSION JOINT DETAILS, GENERAL NOTES & BILL OF MATERIAL

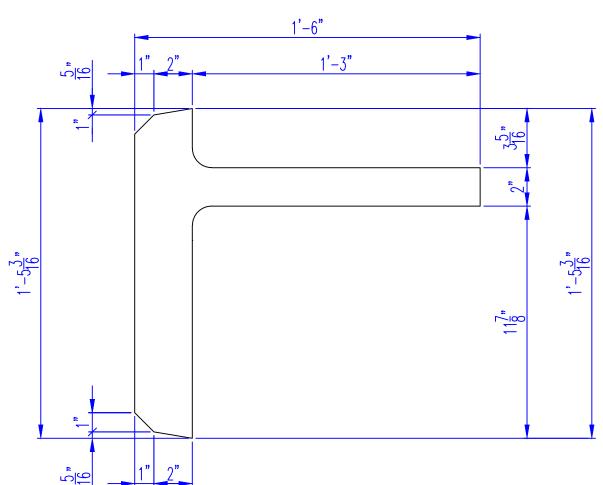
 REF NO.: 2
 ITEM NO.: 516

 ODOT PROJ. NO.: 183000
 HAMILTON COUNTY DWG. NO.: D2

 OSI PROJ. NO.: 19-19
 PID NO.: 104667
 SFN: 3115739
 3 OF 3

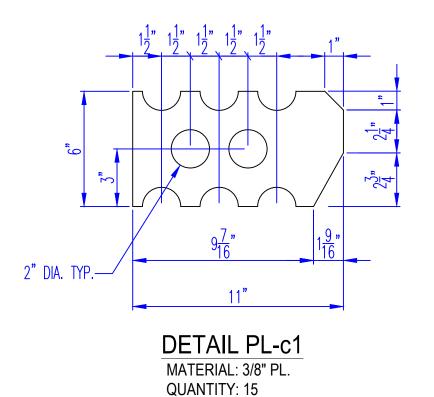


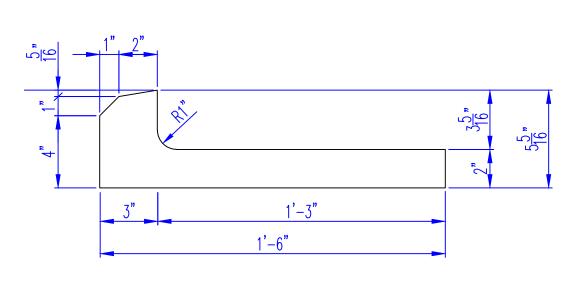




SHIPPING ANGLE DETAIL

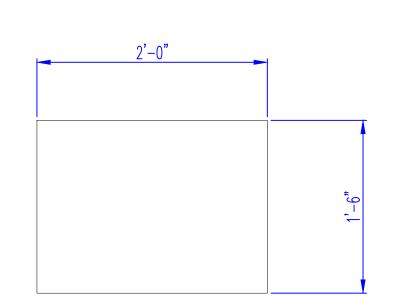
DETAIL e1 MATERIAL: 1/2" PL. QUANTITY:4



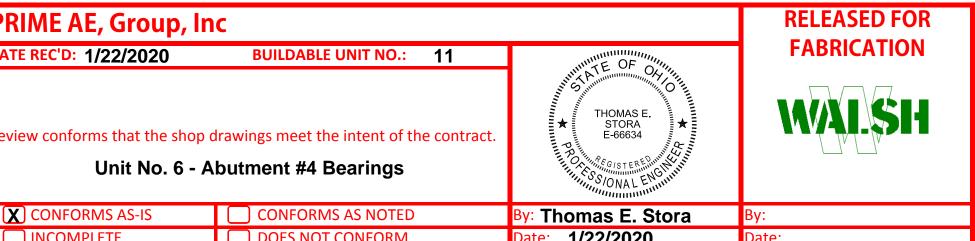


DETAIL d1 MATERIAL: 1/2" PL. QUANTITY:10

| PRIME AE, Group, In | С | | RELEASED FOR |
|-----------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DATE REC'D: 1/22/2020 | BUILDABLE UNIT NO.: 11 | WINTE OF ONLY | FABRICATION |
| · · | drawings meet the intent of the contract. butment #4 Bearings | THOMAS E. STORA E-66634 BOOKERS STERESURE STORA E-66634 BOOKERS STERESURE STORA BOOKERS STOR | WYISH |
| X CONFORMS AS-IS | CONFORMS AS NOTED | By: Thomas E. Stora | Ву: |
| ☐ INCOMPLETE | DOES NOT CONFORM | Date: 1/22/2020 | Date: |



DETAIL p1 MATERIAL: 1/2" PL. QUANTITY:3



GENERAL NOTES:

PID #: 104667

SECTION

DESCRIPTION

DESCRIPTION

QTY MARK

QTY MARK

QTY MARK

1 a1 ANGLE 7x4x1/2

2 n1 ANGLE 8x4x3/4

6 x1 ANGLE 2-1/2x2-1/2x1/4

15 c1 PLATE 3/8 x 6

1 g1 PLATE 1/2 x 20

1 h1 PLATE 1/2 x 13

3 p1 PLATE 1/2 x 18

15 ~~ 1/2"x4" STUD

4 nd 3/4 HEAVY HEX NUT

4 wd 3/4 FLAT WASHER

12 nc 5/8x2 HEX HEAD BOLT

1.90 -- SSA2 EXTRUSION x 23'-0"

APPROVAL

* 1 --- A2R-400 STRIP SEAL x59'-0"

GALLON OF SEAL GLUE

* INDICATES AN ITEM THAT WILL BE SHIPPED LOOSE

12 wc 5/8 HEAVY HEX NUT

4 dh 3/4x2-3/4 HEX HEAD BOLT

10 d1 PLATE 1/2 x 5 5/16

1 b1 MC18x45.8

ODOT PROJECT: 183000

MATERIALS ONLY:

10

14

18

HARDWARE ONLY:

- * ALL MATERIAL SHALL BE ASTM A709 GR50/36.
- * MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ODOT-CMS-2016.
- * 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 1/18/19.

OSI PROJECT #: 19-19

(IN LBS) (IN LBS)

397.34

38.27

24.60

73.80

63.80

11.29

48.75

68.70

0.80

0.16

3.07

1.44

11.75

(IN LBS)

231.61

HEAT#

PC WT

397.34

973.25

19.13

4.10

4.92

SUB TOTAL **1,699.80**

WT PER NET WT

0.29

0.48

0.20

0.04

0.26

0.12

WT PER NET WT

SUB TOTAL

(IN LBS)

SUB TOTAL

121.90

0.00

0.00

TOTAL WT 1,943.16

(IN LBS) (IN LBS)

22.90

1 - EXPANSION JOINT EJ19D

LENGTH LENGTH (FEET) (INCHES) STL SPEC

2 3/8 A709-50

6 1/4 A709-36

6 1/4 A709-36

A709-50

A709-50

A709-36

A709-36

A709-36

A709-36

STL SPEC

A108

A325 Galv

A563 Galv

F436 Galv

A307

A307

A709-36

REF #: 2A

SHIPPING

REMARK

REMARKS

SHIPPING

SHIPPING

REMARKS

D.S. BROWN

D.S. BROWN

D.S. BROWN

- * ALL INFORMATION & DIMENSIONS ARE TO BE APPROVED BY THE CONTRACTOR PRIOR TO COMMENCING FABRICATION.
- * GENERAL TOLERANCE ±1/8" UNLESS NOTED.





OHIO STRUCTURES INC. 4030 BOARDMAN- CANFIELD RD. SUITE 200D

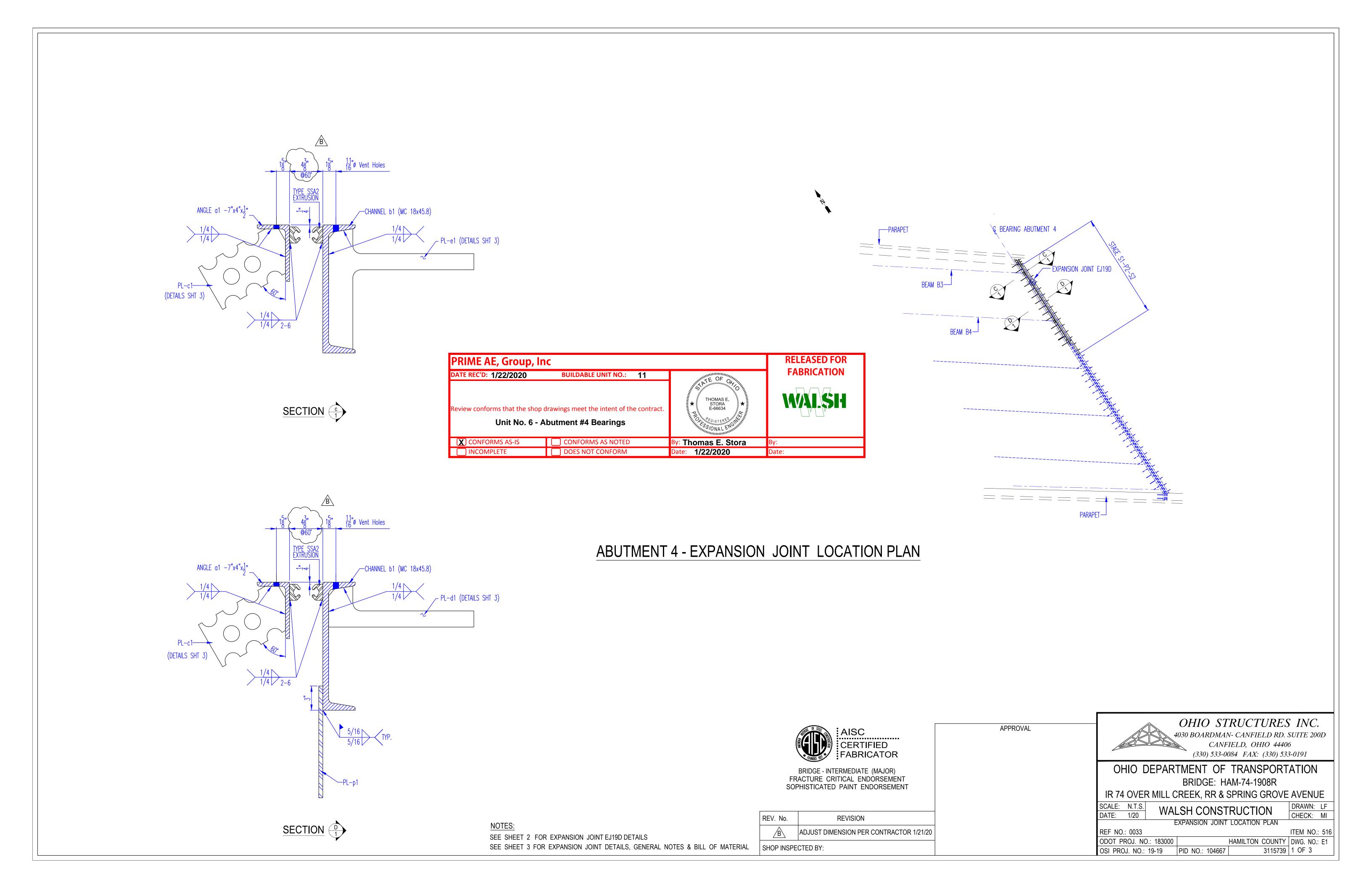
CANFIELD, OHIO 44406 (330) 533-0084 FAX: (330) 533-0191

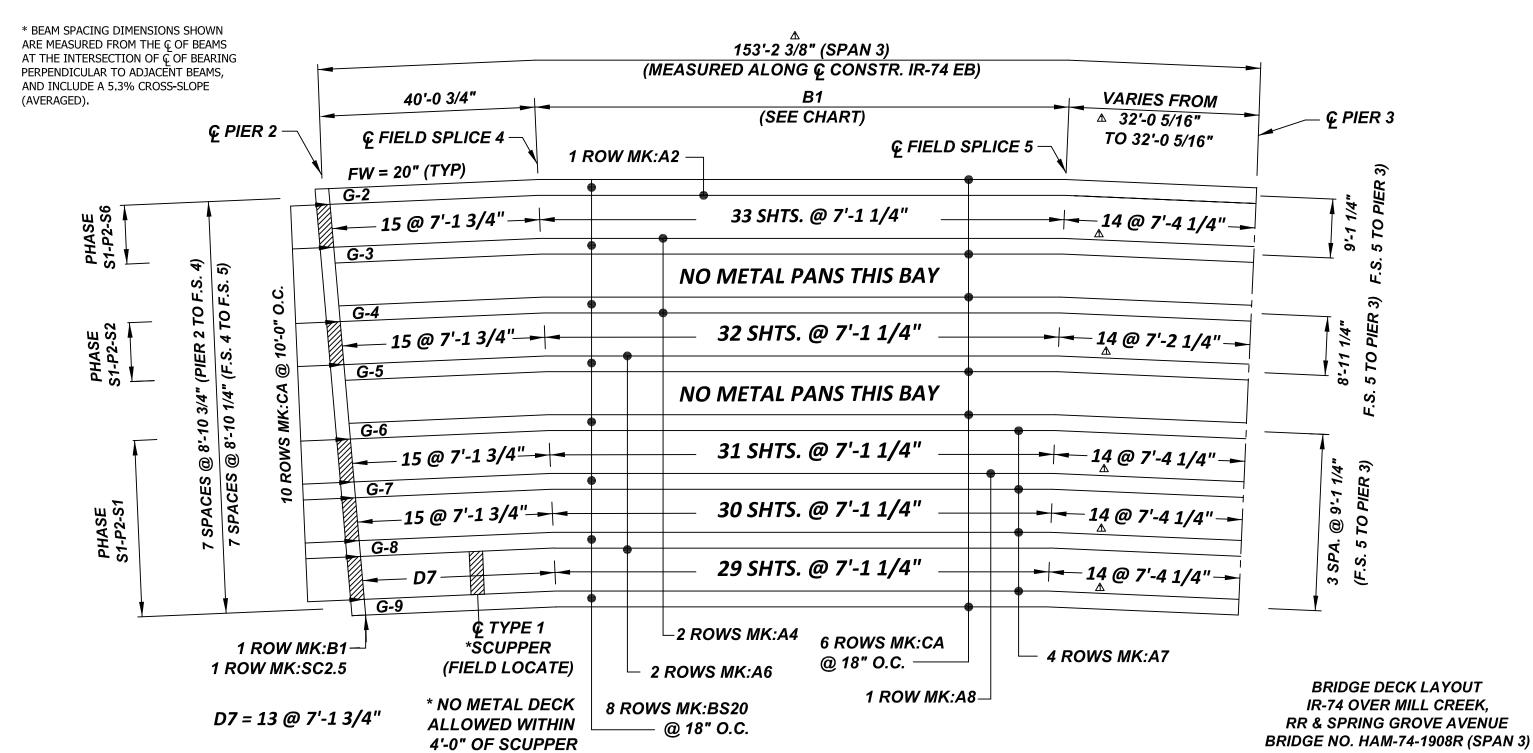
OHIO DEPARTMENT OF TRANSPORTATION BRIDGE: HAM-74-1908R

IR 74 OVER MILL CREEK, RR & SPRING GROVE AVENUE

WALSH CONSTRUCTION DATE: 1/20 CHECK: MI EXPANSION JOINT EJ19D DETAILS, GENERAL NOTES, BILL OF MATERIAL REF NO.: 0033 ITEM NO.: 516 ODOT PROJ. NO.: 183000

HAMILTON COUNTY DWG. NO.: D2 3115739 3 OF 3 OSI PROJ. NO.: 19-19 PID NO.: 104667





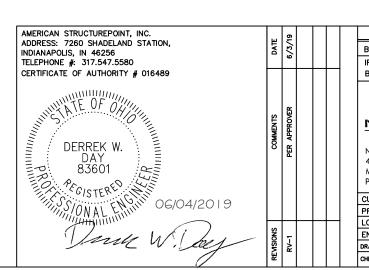
ERECTOR NOTE: BRIDGE RE-DECKING PROJECTS REQUIRE THAT BOTH EXISTING BRIDGE PLANS AND NEW BRIDGE PLANS BE FURNISHED TO NEW MILLENNIUM IN THE EVENT THAT A FULL SET OF EXISTING SUBSTRUCTURE PLANS ARE NOT AVAILABLE, IT IS THE ERECTOR'S RESPONSIBILITY TO VERIFY THE TOP FLANGE SIZES, GIRDER SPACING, COVER PLATE SIZES AND LOCATIONS, AND SLAB DEPTHS THAT ARE ILLUSTRATED ON SHOP DRAWINGS.

NOTES

1. UTILIZE DROPS OF SUPPORT ANGLES, SHEET CLOSURES AND CLOSURE ANGLES.

- 2. SEE HAUNCH TABLE ON SHEET 4 FOR ANGLE SUPPORT LIMITS.
- 3. BEAM STRAPS & MODIFIED BEAM ANGLES WILL ACCOMMODATE THE TOP FLANGE WIDTHS PER CONTRACT DRAWINGS. IF TOP FLANGE WIDTHS DIFFER FROM CONTRACT DRAWINGS, PLEASE PROVIDE TO NMBS PRIOR TO FABRICATION.
- 4. METAL DECK PANS MAY REQUIRE FIELD CUTTING AT FIELD SPICE 4 & 5 SEE DETAIL SHEET 4

| B1 | CHART |
|--------|-----------------|
| GIRDER | LENGTH |
| G1 | 87'-4 1/4" |
| G2 | 85'-9 13/16" |
| G3 | 84'-3 3/8" |
| G4 | 82'-8 7/8" |
| G5 | 81'-2 7/16" |
| G6 | 79' - 8" |
| G7 | 78'-1 9/16" |
| G8 | 76'-7 1/16" |
| G9 | 75'-0 5/8" |



REMARKS

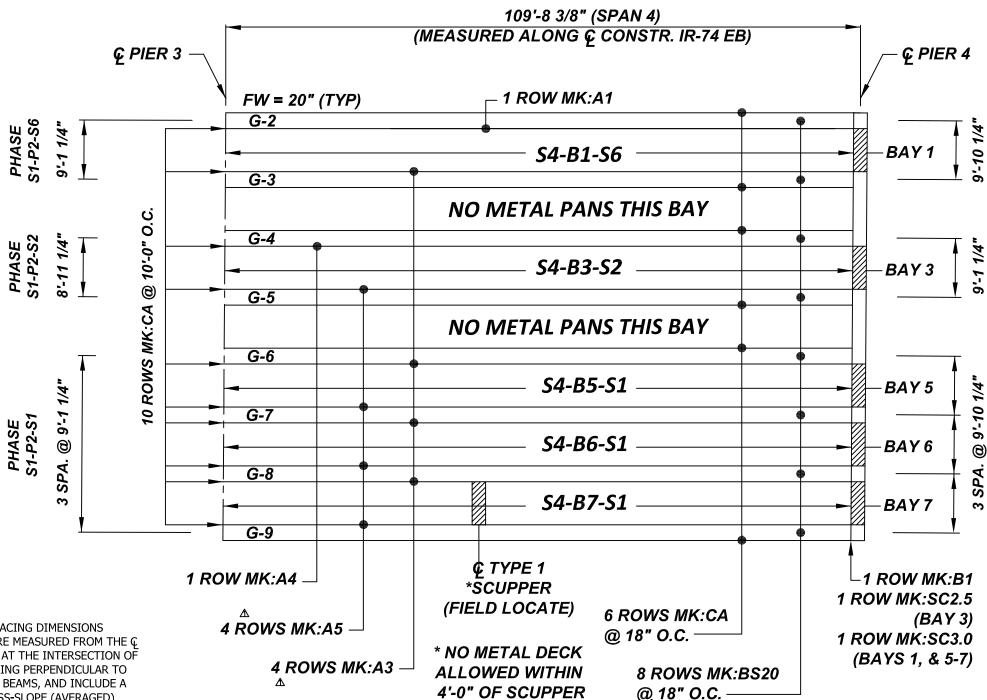
BRIDGE DECK LAYOUT

IR-74 OVER MILL CREEK, RR & SPRING GROVE AVENUE
BRIDGE NO. HAM-74-1908R

NEW MILLENNIUM
BUILDING SYSTEMS

New Millennium Building Systems, LLC
4900 Hungerford Road
Memphis, Tennessee 38118





* BEAM SPACING DIMENSIONS SHOWN ARE MEASURED FROM THE Ç OF BEAMS AT THE INTERSECTION OF **C** OF BEARING PERPENDICULAR TO ADJACENT BEAMS, AND INCLUDE A 5.3% CROSS-SLOPE (AVERAGED).

ERECTOR NOTE: BRIDGE RE-DECKING PROJECTS REQUIRE THAT BOTH EXISTING BRIDGE PLANS AND NEW BRIDGE PLANS BE FURNISHED TO NEW MILLENNIUM IN THE EVENT THAT A FULL SET OF EXISTING SUBSTRUCTURE PLANS ARE NOT AVAILABLE, IT IS THE ERECTOR'S RESPONSIBILITY TO VERIFY THE TOP FLANGE SIZES, GIRDER SPACING, COVER PLATE SIZES AND LOCATIONS, AND SLAB DEPTHS THAT ARE ILLUSTRATED ON SHOP DRAWINGS.

1. UTILIZE DROPS OF SUPPORT ANGLES, SHEET

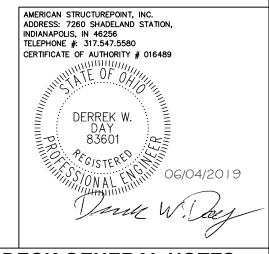
CLOSURES AND CLOSURE ANGLES.

2. SEE HAUNCH TABLE ON SHEET 4 FOR ANGLE SUPPORT LIMITS.

3. BEAM STRAPS & MODIFIED BEAM ANGLES WILL ACCOMMODATE THE TOP FLANGE WIDTHS PER CONTRACT DRAWINGS. IF TOP FLANGE WIDTHS DIFFER FROM CONTRACT DRAWINGS, PLEASE PROVIDE TO NMBS PRIOR TO FABRICATION.

4. METAL DECK PANS MAY REQUIRE FIELD CUTTING AT FIELD SPICE 4 & 5 - SEE DETAIL SHEET 4

BRIDGE DECK LAYOUT IR-74 OVER MILL CREEK. RR & SPRING GROVE AVENUE BRIDGE NO. HAM-74-1908R (SPAN 4)



BRIDGE DECK GENERAL NOTES

- 1. NMBS will furnish only that material listed in the Bill of Material.
- 2. All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.

 3. The contractor shall verify all dimensions.
- 4. Extra concrete poured on deck slab as a result of these metal forms shall be provided by the General Contractor and will not be the responsibility of or to the account of NMBS.

 5. ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE
- DECK. CENTER FORMS ON SUPPORT ANGLES.
- 6. FOR THE SAFETY OF THE WORKMEN, ALL DECK SHEETS SHALL BE SECURELY FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION TRAFFIC IS PERMITTED.
- 7. Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the
- continuous supervision of a properly trained foreman.

 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK.
- 9. Concrete should be poured from a low level to avoid impacting the deck. It should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone.

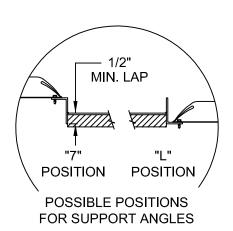
 10. If situations arise that are not specifically covered by these notes or placing plans, or if
- there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification.
- 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct slab thickness and roadway slope.

| | 1. | 2. U | iosure a | ingles sn | all not be used | as support for de | eck form panels. | | | | | |
|-----|----------|--------------|----------|-----------|-----------------------------------------|-------------------------------------------------------------------|------------------|--------|----------------|--|--|--|
| | 1.1 | 19 | | | | REM. | ARKS | | | | | |
| | DATE | 6/3/19 | | | BRIDGE DE | CK LAYOUT AND | GENERAL NOTE | s | | | | |
| | | 9 | | H | 1 | R MILL CREEK,
). HAM-74-190 | RR & SPRING GR | ROVE A | VENUE | | | |
| | COMMENTS | PER APPROVER | | | New Miller
4900 Hung
Memphis, | UILDING SY
Inium Building Sy
erford Road
Fennessee 38118 | stems, LLC | Ī | SCI | | | |
| | | | | | CUSTOMER WALSH CONSTRUCTION COMPANEY II | | | | | | | |
| | | | | | PROJECT | 183000 | FED. NO. E170 | (713) | PID NO. 104667 | | | |
| - 1 | - | \vdash | - | \vdash | LOCATION | HAMILTON COLL | ATY OHIO | | | | | |

DATE 04/2019

ENGINEER STATE OF OHIO DEPARTMENT OF TRANSPORTATION DRAWN TLC DATE 04/2019 NEW MILLENNIUM JOB NO.

BR18-0527

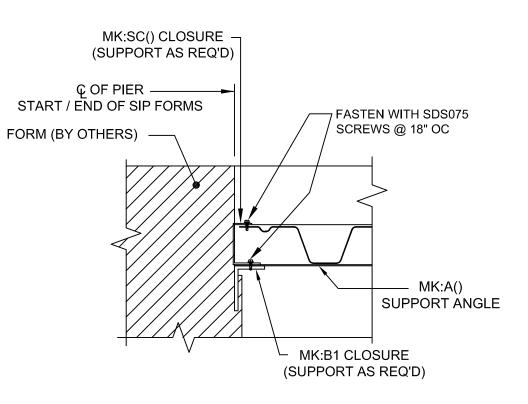


NOTE: THE VERTICAL LEGS OF THE SUPPORT ANGLES IN THE "L" POSITION MAY NEED TO BE CUT IN THE FIELD AS NEEDED PER BRIDGE PLANS.

CONNECTION DETAIL

PANS ARE CONTINUOUS OVER PIER C PIER 3 MK:A() SUPPORT ANGLE

SECTION @ PIER 3



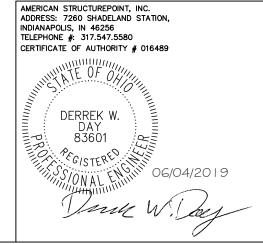
SECTION @ PIERS 2 & 4

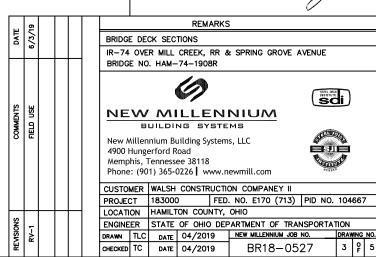
FASTEN TO SUPPORT ANGLE WITH SDS075 SCREWS @ SIDELAP PLUS ONE 1 1/2"\ 1/8" 1/8" / 1 1/2" - INTERIOR CORRUGATION PER SHEET -@ 18" OC @ 18" OC THIS AREA NOT FORMED BY METAL DECK MK:A() SUPPORT ANGLE MK:CA CLIP ANGLE (ADJUST AS REQ'D) MK:CA CLIP ANGLE SPACED @ 18" OC SPACED @ 10'-0" OC -MK:CA CLIP ANGLE SPACED @ MK:BS20 BEAM STRAP 10'-0" OC. INSTALL BETWEEN MK:BS20 BEAM STRAP SPACED @ 18" OC SUPPORT ANGLES TIGHT TO THE SPACED @ 18" OC

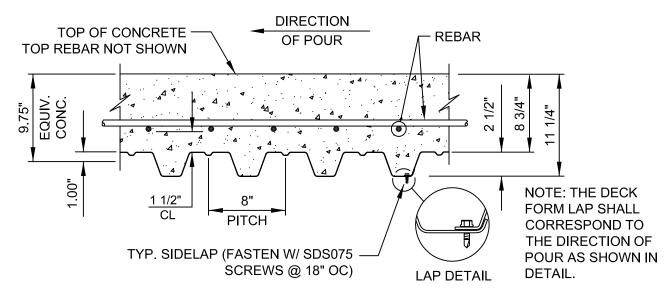
UNDERSIDE OF FLANGE; BUTT AND

WELD TO SUPPORT ANGLE.

SECTION @ EXTERIOR GIRDERS SECTION @
INTERIOR GIRDERS



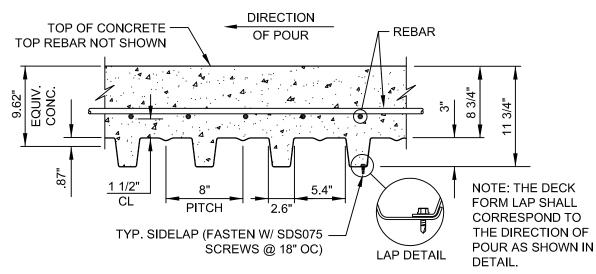




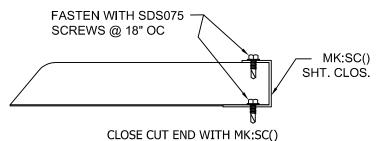
2 1/2" x 8" SLAB SECTION

| | *ANGLE SUPF | PORT LIMITS CHA | RT |
|------|-------------|-----------------|-------------|
| MARK | MAX. HAUNCH | MIN. HAUNCH | SIP PROFILE |
| A1 | 7 1/2" | -1 1/2" | 3" |
| A2 | 8 1/2" | -3 1/2" | 2 1/2" |
| A3 | 11" | -5" | 3" |
| A4 | 10 1/2" | -5 1/2" | 2 1/2" |
| A5 | 11 1/2" | -6 1/2" | 2 1/2" |
| A5 | 12" | -6" | 3" |
| A6 | 12 1/2" | -7 1/2" | 2 1/2" |
| A7 | 13 1/2" | -8 1/2" | 2 1/2" |
| A8 | 14" | -9" | 2 1/2" |

*BOTH MAX. & MIN. MEASURED AT THE EDGE OF BEAM. IF A LARGER HAUNCH EXISTS, i.e. DUE TO CAMBER & DEAD LOAD DEFLECTION, THIS VALUE MUST BE PROVIDED TO NMBS PRIOR TO DRAWING APPROVAL.



3" x 8" SLAB SECTION



ATTACH WITH SDS075 SCREWS @ 18" O.C.

CLOSURE FOR FIELD CUT DECK ENDS

BRIDGE DECK GENERAL NOTES

- 1. NMBS will furnish only that material listed in the Bill of Material.
- All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.
- The contractor shall verify all dimensions.
- Extra concrete poured on deck slab as a result of these metal forms shall be provided by the General Contractor and will not be the responsibility of or to the account of NMBS.
- ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE DECK. CENTER FORMS ON SUPPORT ANGLES.
 FOR THE SAFETY OF THE WORKMEN. ALL DECK SHEETS SHALL BE SECURELY
- FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION TRAFFIC IS PERMITTED.

 7. Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the
- continuous supervision of a properly trained foreman.

 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK.
- Concrete should be poured from a low level to avoid impacting the deck. It should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone.
- 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification.
- 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct slab thickness and roadway slope.12. Closure angles shall not be used as support for deck form panels.

VISIONS COMMENTS DATI

AMERICAN STRUCTUREPOINT, INC.
ADDRESS: 7260 SHADELAND STATION,
INDIANAPOLIS, IN 46256
TELEPHONE #: 317.547.5580
CERTIFICATE OF AUTHORITY # 016489

DERREK W.
DAY

B 3601

COSTERED

OG/04/2019

REMARKS

BRIDGE DECK SECTIONS AND GENERAL NOTES

IR-74 OVER MILL CREEK, RR & SPRING GROVE AVENUE BRIDGE NO. HAM-74-1908R



New Millennium Building Systems, LLC 4900 Hungerford Road Memphis, Tennessee 38118 Phone: (901) 365-0226 | www.newmill.com



| CUSTOMER WALSH CONSTRUCTION COMPANEY II | | | | | | | | | | |
|-----------------------------------------|------------------------------|-------|---------|------------------------|-----------|---------|-------------|------|-----|---|
| | | | | FED | . NO. E17 | 0 (713) | PID NO. | 104 | 667 | 7 |
| OCATI | CATION HAMILTON COUNTY, OHIO | | | | | | | | | |
| NGINE | ER | STATE | OF OHIC | DEF | PARTMENT | OF TRAI | NSPORTA | TION | | |
| RAWN | N TLC DATE 04/2019 | | 9 | NEW MILLENNIUM JOB NO. | | | DRAWING NO. | | _ | |
| HECKED | TC | DATE | 04/201 | 9 | BR1 | 8-05 | 27 | 4 | P | 5 |
| | | | | | | | | | | |

| | Du l o | EMATERIAL | |
|----------------------------------|----------|----------------------|--------------------------------|
| MARK | NO. PCS. | F MATERIAL
LENGTH | DESCRIPTION |
| S1-P2-S6
A1 | 11 | 10'-0" | SUPPORT ANGLE
10 GAGE GALV. |
| S1-P2-S6
A2 | 17 | 10'-0" | SUPPORT ANGLE
12 GAGE GALV. |
| S1-P2-S6
A3
S1-P2-S1
A3 | 11
34 | 10'-0"
10'-0" | SUPPORT ANGLE
10 GAGE GALV. |
| S1-P2-S6
A4
S1-P2-S2
A4 | 17
28 | 10'-0"
10'-0" | SUPPORT ANGLE 12 GAGE GALV. |
| S1-P2-S2
A5
S1-P2-S1
A5 | 11
32 | 10'-0"
10'-0" | SUPPORT ANGLE
10 GAGE GALV. |
| S1-P2-S2
A6
S1-P2-S1
A6 | 17
16 | 10'-0"
10'-0" | SUPPORT ANGLE
10 GAGE GALV. |
| S1-P2-S1
A7 | 64 | 10'-0" | SUPPORT ANGLE 10 GAGE GALV. |

| BILL OF MATERIAL | | | | | | |
|--------------------|----------|---------|----------------------------------------|--|--|--|
| MARK | NO. PCS. | LENGTH | DESCRIPTION | | | |
| S1-P2-S1
A8 | 16 | 10'-0" | SUPPORT ANGLE
8 GAGE GALV. | | | |
| S1-P2-S6
B | 2 | 10'-0" | CLOSURE ANGLE
16 GAGE GALV. | | | |
| S1-P2-S2
B | 2 | 10'-0" | 4" | | | |
| S1-P2-S1
B | 6 | 10'-0" | | | | |
| S1-P2-S6
CA | 433 | 2" | CLIP ANGLE
12 GAGE GALV. | | | |
| S1-P2-S2
CA | 433 | 2" | 3 1/2" | | | |
| S1-P2-S1
CA | 542 | 2" | 1" | | | |
| S1-P2-S6
BS20 | 370 | 20 1/8" | BEAM STRAPS
12 GAGE
2" WIDE FLAT | | | |
| S1-P2-S2
BS20 | 370 | 20 1/8" | | | | |
| S1-P2-S1
BS20 | 740 | 20 1/8" | | | | |
| S1-P2-S6
SC2.5 | 3 | 10'-0" | SHEET CLOSURE
22 GAGE GALV. | | | |
| S1-P2-S2
SC2.5 | 4 | 10'-0" | 2 5/8" | | | |
| S1-P2-S1
SC2.5 | 9 | 10'-0" | 1 1/2" | | | |
| S1-P2-S6
SC3.0 | 1 | 10'-0" | SHEET CLOSURE
22 GAGE GALV. | | | |
| S1-P2-S1
SC3.0 | 3 | 10'-0" | 1 1/2" | | | |
| S1-P2-S6
SDS075 | 1,300 | | SELF DRILLING | | | |
| S1-P2-S2
SDS075 | 1,300 | | SCREWS
1/4-14x3/4"
CADMIUM PLTD. | | | |
| S1-P2-S1
SDS075 | 3,900 | | | | | |

| BILL OF N | MATERIAL: SP | AN 4 BAY 1, PHASE | S1-P2-S6 |
|-----------|--------------|-------------------|------------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S4-B1-S6 | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | BRIDGE DECK |
| | 2 | 7' - 5 1/4" | 3" DEEP |
| | 2 | 7' - 5 1/2" | 8" PITCH |
| | 2 | 7' - 5 3/4" | 24" COVER |
| | 2 | 7' - 6 1/4" | CLOSED ENDS |
| | 2 | 7' - 6 1/2" | ASTM A653 |
| | 2 | 7' - 6 3/4" | GRADE 50 |
| | | 7' - 7 1/4" | GALV. G-235 |
| | 2 | 7' - 7 1/2" | 20 GAGE |
| | 2 | 7' - 7 3/4" | I=1.002 in^4/ft |
| | 2 | 7' - 8 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 8 1/2" | 0 0.047 117 0/10 |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/2" | |
| | 2 | 7' - 9 3/4" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11" | |
| | 2 | 7' - 11 1/2" | |
| | 2 | 7' - 11 3/4" | |
| | 2 | 8' - 0" | |
| | 2 | 8' - 0 1/2" | |
| | | 8' - 0 3/4" | |
| | 2 | 8' - 1" | |
| | 2 | 8' - 1 1/4" | |

| | | Δ. | |
|-----------|---------------|-------------------|------------------|
| BILL OF M | IATERIAL: SP. | AN 4 BAY 4, PHASE | S1-P2-S1 |
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S4-B5-S1 | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | BRIDGE DECK |
| | 2 | 7' - 5 1/4" | 3" DEEP |
| | 2 | 7' - 5 1/2" | 8" PITCH |
| | 2 | 7' - 5 3/4" | 24" COVER |
| | 2 | 7' - 6 1/4" | CLOSED ENDS |
| | 2 | 7' - 6 1/2" | ASTM A653 |
| | 2 | 7' - 6 3/4" | GRADE 50 |
| | 2 | 7' - 7 1/4" | GALV. G-235 |
| | 2 | 7' - 7 1/2" | 20 GAGE |
| | 2 | 7' - 7 3/4" | I=1.002 in^4/ft |
| | 2 | 7' - 8 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 8 1/2" | 3-0.341 111 3/11 |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/2" | |
| | 2 | 7' - 9 3/4" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11" | |
| | 2 | 7' - 11 1/2" | |
| | 2 | 7' - 11 3/4" | |
| | 2 | 8' - 0" | |
| | 2 | 8' - 0 1/2" | |
| | 2 | 8' - 0 3/4" | |
| | 2 | 8' - 1" | |
| | 2 | 8' - 1 1/4" | |
| • | • | - | |

| MARK | NO. PCS. | LENGTH | DESCRIPTION |
|----------|----------|--------------|------------------|
| S4-B7-S1 | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | BRIDGE DECK |
| | 2 | 7' - 5 1/4" | 3" DEEP |
| | 2 | 7' - 5 1/2" | 8" PITCH |
| | 2 | 7' - 5 3/4" | 24" COVER |
| | 2 | 7' - 6 1/4" | CLOSED ENDS |
| | 2 | 7' - 6 1/2" | ASTM A653 |
| | 2 | 7' - 6 3/4" | GRADE 50 |
| | 2 | 7' - 7 1/4" | GALV. G-235 |
| | 2 | 7' - 7 1/2" | 20 GAGE |
| | 2 | 7' - 7 3/4" | I=1.002 in^4/ft |
| | 2 | 7' - 8 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 8 1/2" | 3-0.541 111 3/10 |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/2" | |
| | 2 | 7' - 9 3/4" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11" | |
| | 2 | 7' - 11 1/2" | |
| | 2 | 7' - 11 3/4" | |
| | 2 | 8' - 0" | |
| | 2 | 8' - 0 1/2" | |
| | 2 | 8' - 0 3/4" | |
| | 2 | 8' - 1" | |
| | 2 | 8' - 1 1/4" | |

| | | ^ | |
|-----------|--------------|-------------------|-----------------|
| BILL OF M | IATERIAL: SP | AN 4 BAY 3, PHASE | S1-P2-S2 |
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S4-B3-S2 | 7 | 7' - 2 1/2" | |
| | 6 | 7' - 2 3/4" | BRIDGE DECK |
| | 6 | 7' - 3" | 2 1/2" DEEP |
| | 6 | 7' - 3 1/4" | 8" PITCH |
| | 6 | 7' - 3 1/2" | 32" COVER |
| | 6 | 7' - 4" | CLOSED ENDS |
| | 7 | 7' - 4 1/4" | ASTM A653 |
| | | | GRADE 50 |
| | | | GALV. G-235 |
| | | | 20 GAGE |
| | | | I=0.645 in^4/ft |
| | | | S=0.462 in^3/ft |
| | | | |

Λ BILL OF MATERIAL: SPAN 3 NO. PCS. LENGTH

7'-1 1/4"

7'-1 3/4"

7'-4 1/4"

7'-1 1/4"

7'-1 3/4"

7'-2 1/4"

7'-1 1/4"

7'-1 3/4"

7'-4 1/4"

MARK S1-P2-S6

7'-1 1/4"

7'-1 3/4"

7'-4 1/4"

S1-P2-S2

7'-1 1/4"

7'-1 3/4"

7'-2 1/4"

S1-P2-S1

7'-1 1/4"

7'-1 3/4"

7'-4 1/4"

33

15

14

32

15

43

42_A

DESCRIPTION

BRIDGE DECK 2 1/2" DEEP

8" PITCH

32" COVER

CLOSED ENDS ASTM A653

GRADE 50

GALV. G-235

I=0.645 in^4/ft

S=0.462 in^3/ft

20 GAGE

| | | <u> </u> | |
|----------|----------|-------------------|------------------|
| | | AN 4 BAY 6, PHASE | |
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S4-B6-S1 | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | BRIDGE DECK |
| | 2 | 7' - 5 1/4" | 3" DEEP |
| | 2 | 7' - 5 1/2" | 8" PITCH |
| | 2 | 7' - 5 3/4" | 24" COVER |
| | 2 | 7' - 6 1/4" | CLOSED ENDS |
| | | 7' - 6 1/2" | ASTM A653 |
| | 2 | 7' - 6 3/4" | GRADE 50 |
| | 2 | 7' - 7 1/4" | GALV. G-235 |
| | 2 | 7' - 7 1/2" | 20 GAGE |
| | 2 | 7' - 7 3/4" | I=1.002 in^4/ft |
| | 2 | 7' - 8 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 8 1/2" | 0 0.047 111 0/10 |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/2" | |
| | 2 | 7' - 9 3/4" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11" | |
| | 2 | 7' - 11 1/2" | |
| | 2 | 7' - 11 3/4" | |
| | 2 | 8' - 0" | |
| | 2 | 8' - 0 1/2" | |
| | 2 | 8' - 0 3/4" | |
| | 2 | 8' - 1" | |
| | 2 | 8' - 1 1/4" | |

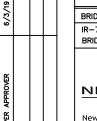
AMERICAN STRUCTUREPOINT, INC. ADDRESS: 7260 SHADELAND STATION, INDIANAPOLIS, IN 46256 TELEPHONE #: 317.547.5580 CERTIFICATE OF AUTHORITY # 016489 TE OF 0%

BRIDGE DECK GENERAL NOTES

- 1. NMBS will furnish only that material listed in the Bill of Material.
- 2. All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.
- 3. The contractor shall verify all dimensions.
- Extra concrete poured on deck slab as a result of these metal forms shall be provided by the General Contractor and will not be the responsibility of or to the account of NMBS.
- 5. ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE
- DECK. CENTER FORMS ON SUPPORT ANGLES.

 6. FOR THE SAFETY OF THE WORKMEN. ALL DECK SHEETS SHALL BE SECURELY FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION
- TRAFFIC IS PERMITTED. Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the continuous supervision of a properly trained foreman.
- 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK.
- 9. Concrete should be poured from a low level to avoid impacting the deck. It should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of
- the deck span. Workers should not congregate around the concrete placement zone. 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact
- New Millennium Building Systems for additional instructions or clarification. 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct
- slab thickness and roadway slope.

 12. Closure angles shall not be used as support for deck form panels.



BRIDGE DECK BILL OF MATERIAL AND GENERAL NOTES IR-74 OVER MILL CREEK, RR & SPRING GROVE AVENUE BRIDGE NO. HAM-74-1908R

REMARKS

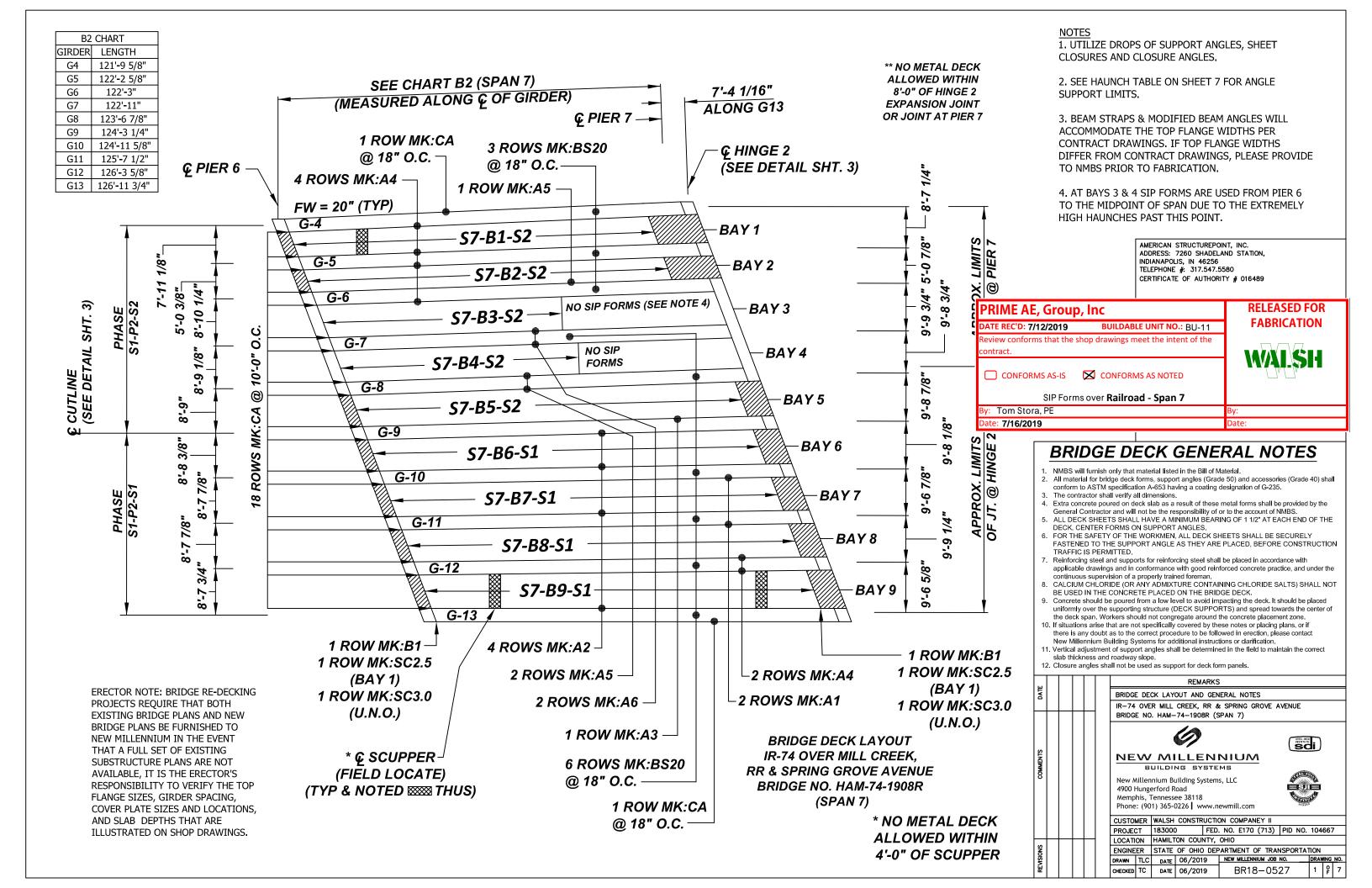


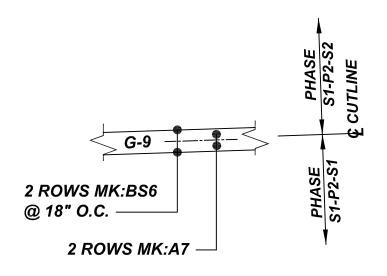


New Millennium Building Systems, LLC 4900 Hungerford Road Memphis, Tennessee 38118 Phone: (901) 365-0226 www.newmill.com



| CUSTOMER | WALSH CONSTRUCTION COMPANEY II | | | | | | | | | | |
|--------------------------------|--------------------------------|--|-------|------------|--------|----------------|-------|------|--------|-----|--|
| PROJECT 183000 FED. | | | . NO. | E170 (7 | 13) | PID NO. 104667 | | | | | |
| LOCATION HAMILTON COUNTY, OHIO | | | | | | | | | | | |
| ENGINEER STATE OF OHIO DE | | | DEF | ARTM | ENT OF | TRAN | ISPOR | RTAT | ПОИ | | |
| DRAWN TLC | IN TLC DATE 04/2019 | | NEW I | MILLENNIUW | JOB | NO. | | DRAW | ING | NO. | |
| CHECKED TC | DATE | | | BR18-0527 | | | | 5 | P
F | 5 | |





TOP EDGE OF 2X2 ANGLE 18" O.C. SHEAR STUD BEAM STRAP -**TOP FLANGE** (CLIP ANGLE NOT SHOWN) BOTTOM LEG OF 2X2 ANGLE -

(DETAIL A)

SECTION @ **BRIDGE DECK LAYOUT** (GIRDER 9)

PRIME AE, Group, Inc.

Date: 7/16/2019

BUILDABLE UNIT NO.: BU-11

X CONFORMS AS NOTED

SIP Forms over Railroad - Span 7

RELEASED FOR

FABRICATION

DETAIL A 1 1/2" @ 18" OC EXISTING SLAB SHEAR STUD MK:A() SUPPORT ANGLE MK:A7 SUPPORT ANGLE CLIP ANGLES SPACED @ 10'-0" INSTALL BTWN. SUPPORT ANGLES TIGHT TO UNDERSIDE OF FLANGE-BUTT & MK:BS6 BEAM STRAP WELD TO SUPPORT ANGLES. SPACED @ 18" OC

CUTLINE

SECTION @ EXISTING SLAB (GIRDER 9)

AMERICAN STRUCTUREPOINT, INC. ADDRESS: 7260 SHADELAND STATION, INDIANAPOLIS, IN 46256 TELEPHONE #: 317.547.5580 CERTIFICATE OF AUTHORITY # 016489

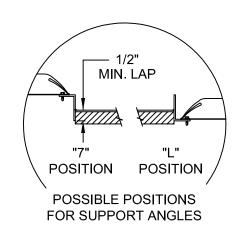
BRIDGE DECK GENERAL NOTES

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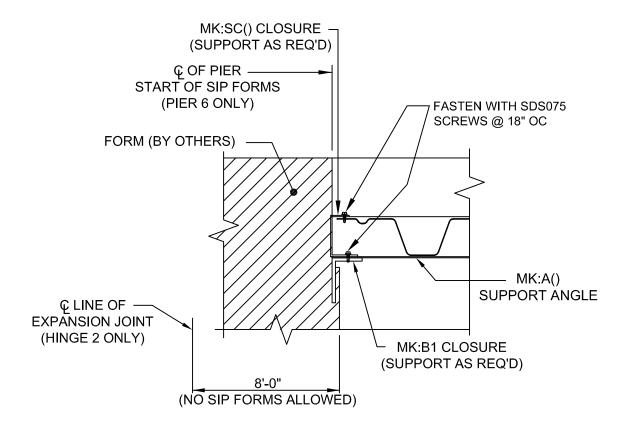
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- 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification
- 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct slab thickness and roadway slope.
- 12. Closure angles shall not be used as support for deck form panels





NOTE: THE VERTICAL LEGS OF THE SUPPORT ANGLES IN THE "L" POSITION MAY NEED TO BE CUT IN THE FIELD AS NEEDED PER BRIDGE PLANS.

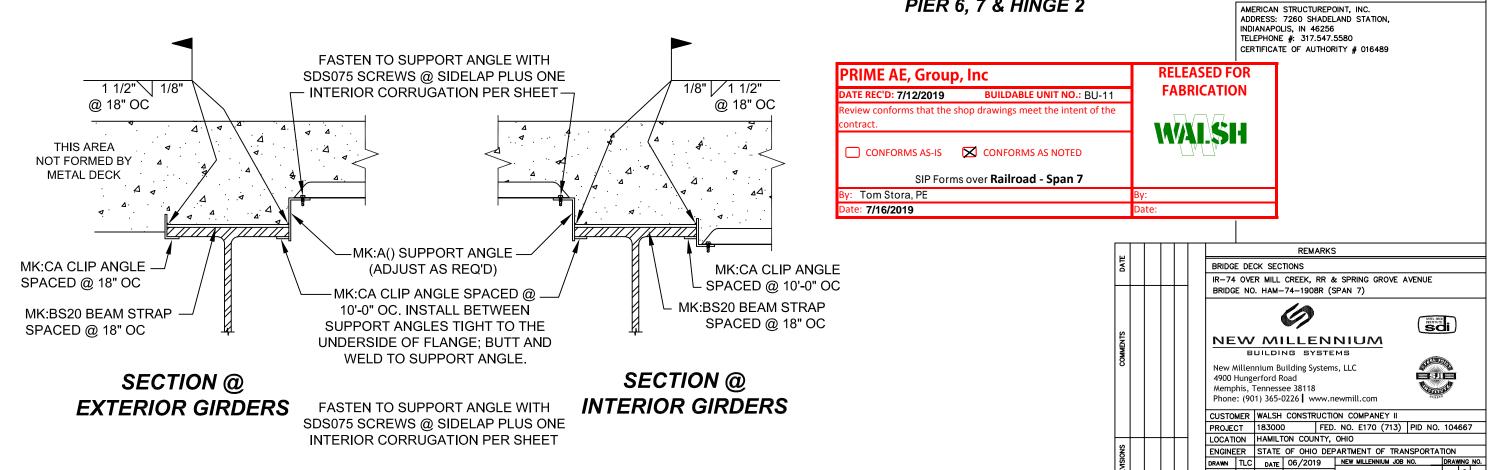
CONNECTION DETAIL

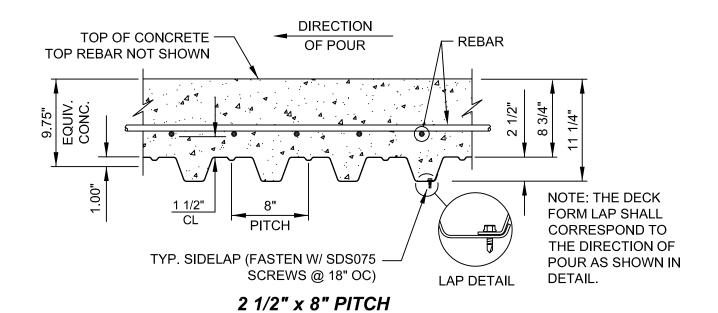


SECTION @ PIER 6, 7 & HINGE 2

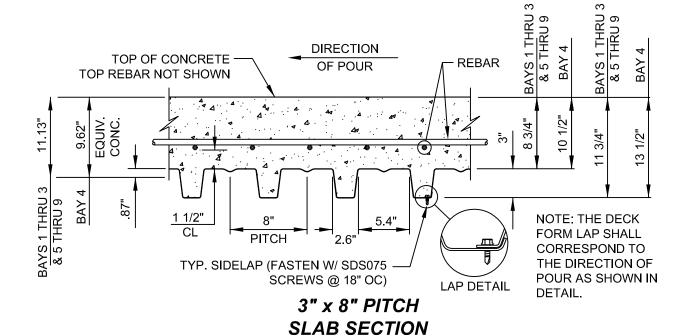
BR18-0527

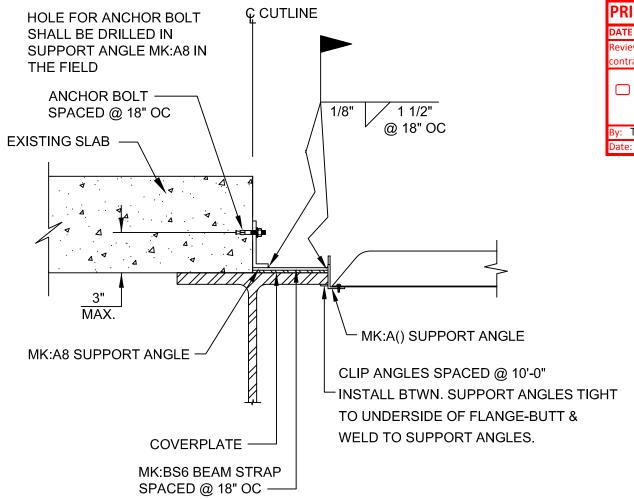
CHECKED TC DATE 06/2019



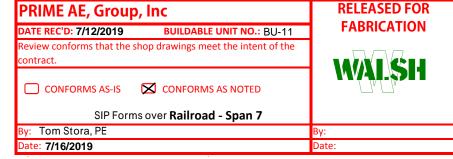


SLAB SECTION





SECTION @ EXISTING SLAB (GIRDER 9 @ COVERPLATE)



BRIDGE DECK GENERAL NOTES

- NMBS will furnish only that material listed in the Bill of Material.
- 2. All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.
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- continuous supervision of a properly trained foreman. 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK
- Concrete should be poured from a low level to avoid impacting the deck. It should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone.
- 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification. 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct
- slab thickness and roadway slope 12. Closure angles shall not be used as support for deck form panels.

AMERICAN STRUCTUREPOINT, INC. ADDRESS: 7260 SHADELAND STATION, INDIANAPOLIS, IN 46256 TELEPHONE #: 317.547.5580 CERTIFICATE OF AUTHORITY # 016489





STEEL DECK INSTITUTE SCI

Phone: (901) 365-0226 | www.newmill.com CUSTOMER WALSH CONSTRUCTION COMPANEY II PROJECT 183000 FED. NO. E170 (713) PID NO. 104667 LOCATION HAMILTON COUNTY, OHIO ENGINEER STATE OF OHIO DEPARTMENT OF TRANSPORTATION DRAWN TLC DATE 06/2019 NEW MILLENNIUM JOB NO.

BR18-0527 CHECKED TC DATE 06/2019

| BILL OF M | IATERIAL: SP. | AN 7 BAY 1, PHASE | S1-P2-S2 |
|-----------|---------------|-------------------|-----------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B1-S2 | 4 | 6' - 2 1/2" | BRIDGE DECK |
| | 2 | 6' - 2 3/4" | 2 1/2" DEEP |
| | 2 | 6' - 3 1/4" | 8" PITCH |
| | 2 | 6' - 3 1/2" | 32" COVER |
| | 2 | 6' - 3 3/4" | CLOSED ENDS |
| | 2 | 6' - 4 1/4" | |
| | 2 | 6' - 4 1/2" | ASTM A653 |
| | 2 | 6' - 4 3/4" | GRADE 50 |
| | 2 | 6' - 5 1/4" | GALV. G-235 |
| | 2 | 6' - 5 1/2" | 20 GAGE |
| | 2 | 6' - 5 3/4" | I=0.645 in^4/ft |
| | 2 | 6' - 6 1/4" | S=0.462 in^3/ft |
| | 2 | 6' - 6 1/2" | |
| | 2 | 6' - 6 3/4" | |
| | 2 | 6' - 7 1/4" | |
| | 2 | 6' - 7 1/2" | |
| | 2 | 6' - 7 3/4" | |
| | 2 | 6' - 8" | |
| | 2 | 6' - 8 1/2" | |
| | 2 | 6' - 8 3/4" | |
| | 2 | 6' - 9" | |
| | 2 | 6' - 9 1/2" | |
| | 2 | 6' - 9 3/4" | |
| | 2 | 6' - 10" | |
| | 4 | 6' - 10 1/2" | |

| BILL OF M | ATERIAL: SP | AN 7 BAY 2, PHASE | S1-P2-S2 |
|-----------|-------------|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B2-S2 | 67 | 3' - 3 3/4" | BRIDGE DECK 3" DEEP 8" PITCH 24" COVER CLOSED ENDS ASTM A653 GRADE 50 GALV. G-235 20 GAGE I=1.002 in^4/ft S=0.541 in^3/ft |

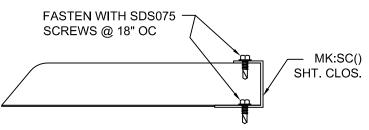
| BILL OF N | | AN 7 BAY 5, PHASE | S1-P2-S2 |
|-----------|----------|-------------------|-----------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B5-S2 | 3 | 7' - 0 1/4" | BRIDGE DECK |
| | 2 | 7' - 0 3/4" | 3" DEEP |
| | 2 | 7' - 1" | 8" PITCH |
| | 2 | 7' - 1 1/2" | 24" COVER |
| | 2 | 7' - 1 3/4" | CLOSED ENDS |
| | 2 | 7' - 2" | ASTM A653 |
| | 2 | 7' - 2 1/2" | GRADE 50 |
| | 2 | 7' - 2 3/4" | GALV. G-235 |
| | 2 | 7' - 3 1/4" | 20 GAGE |
| | 2 | 7' - 3 1/2" | |
| | 2 | 7' - 4" | I=1.002 in^4/ft |
| | 2 | 7' - 4 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 5" | |
| | 2 | 7' - 5 1/4" | |
| | 2 | 7' - 5 3/4" | |
| | 2 | 7' - 6" | |
| | 2 | 7' - 6 1/2" | |
| | 2 | 7' - 6 3/4" | |
| | 2 | 7' - 7 1/4" | |
| | 2 | 7' - 7 1/2" | |
| | 2 | 7' - 7 3/4" | |
| | 2 | 7' - 8 1/4" | |
| | 2 | 7' - 8 1/2" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/4" | |
| | 2 | 7' - 9 3/4" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11" | |
| | 2 | 7' - 11 1/2" | |
| | 4 | 7' - 11 3/4" | |

| PRIME AE, Group, | RELEASED FOR | |
|---------------------------------------|------------------------------------|-------|
| DATE REC'D: 7/12/2019 | FABRICATION | |
| Review conforms that the sh contract. | op drawings meet the intent of the | |
| CONFORMS AS-IS | WALSH | |
| SIP Forms | over Railroad - Span 7 | |
| By: Tom Stora, PE | | Ву: |
| Date: 7/16/2019 | | Date: |

BRIDGE DECK GENERAL NOTES

- NMBS will furnish only that material listed in the Bill of Material.
 All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.
- 3. The contractor shall verify all dimensions.
- 4. Extra concrete poured on deck slab as a result of these metal forms shall be provided by the General Contractor and will not be the responsibility of or to the account of NMBS.
- 5. ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE DECK. CENTER FORMS ON SUPPORT ANGLES.
 6. FOR THE SAFETY OF THE WORKMEN. ALL DECK SHEETS SHALL BE SECURELY
- FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION TRAFFIC IS PERMITTED. Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the
- continuous supervision of a properly trained foreman. 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT
- BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK. 9. Concrete should be poured from a low level to avoid impacting the deck. It should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone.
- 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification.
- 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct slab thickness and roadway slope.

 12. Closure angles shall not be used as support for deck form panels.



CLOSE CUT END WITH MK:SC() ATTACH WITH SDS075 SCREWS @ 18" O.C.

CLOSURE FOR FIELD CUT DECK ENDS AMERICAN STRUCTUREPOINT, INC. ADDRESS: 7260 SHADELAND STATION, INDIANAPOLIS, IN 46256 TELEPHONE #: 317.547.5580 CERTIFICATE OF AUTHORITY # 016489

| DATE | | | BRID |
|----------|--|--|--------------------|
| | | | IR-7 |
| | | | BRID |
| COMMENTS | | | New
4900
Mem |

REMARKS GE DECK BILL OF MATERIAL AND GENERAL NOTES 74 OVER MILL CREEK, RR & SPRING GROVE AVENUE DGE NO. HAM-74-1908R (SPAN 7)

EW MILLENNIUM BUILDING SYSTEMS

Millennium Building Systems, LLC Hungerford Road nphis, Tennessee 38118 hone: (901) 365-0226 | www.newmill.com



CUSTOMER WALSH CONSTRUCTION COMPANEY II PROJECT 183000 FED. NO. E170 (713) PID NO. 104667 LOCATION HAMILTON COUNTY, OHIO

ENGINEER STATE OF OHIO DEPARTMENT OF TRANSPORTATION DRAWN TLC DATE 06/2019 NEW MILLENNIUM JOB NO.

CHECKED TC DATE 06/2019

BR18-0527

| BILL OF MATERIAL: SPAN 7 BAY 6, PHASE S1-P2-S1 MARK NO. PCS. LENGTH DESCRIPTIO S7-B6-S1 4 6'-11 3/4" 2 7'-0" 2 7'-0 1/2" 2 7'-0 3/4" 8" PITCH 24" COVE | CK
I |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| \$7-B6-\$1 | CK
I |
| 2 7'-0" 3" DEEF
2 7'-0 1/2" 8" PITCH
2 7'-0 3/4" 24" COVE | 1 |
| 2 7' - 0 1/2" 8" PITCH
2 7' - 0 3/4" 24" COVE | ł |
| 2 7'-03/4" 24" COVE | - |
| | - |
| | ĸ |
| 2 7'-1" CLOSED EN | |
| 2 7'-11/2" ASTM AG | |
| 2 7'-13/4" CDADE 5 | |
| 2 /-21/4" | - |
| 2 7' - 2 1/2" GALV. G-2 | |
| 2 7' - 2 3/4" 20 GAGE | _ |
| 2 7' - 3 1/4" I=1.002 in^ | |
| 2 7' - 3 1/2" S=0.541 in ⁿ | 3/ft |
| 2 7'-4" | |
| 2 7' - 4 1/4" | |
| 2 7' - 4 1/2" | |
| 2 7'-5" | |
| 2 7' - 5 1/4" | |
| 2 7' - 5 3/4" | |
| 2 7'-6" | |
| <u>2 7' - 6 1/2"</u> | |
| 2 7' - 6 3/4" | |
| 2 7'-7" | |
| 2 7' - 7 1/2" | |
| 2 7' - 7 3/4" | |
| 2 7' - 8 1/4"
2 7' - 8 1/2" | |
| 2 7' - 8 1/2" | |
| 2 7' - 8 3/4" | |
| 2 7' - 9 1/4" | |
| 2 7' - 9 1/2" | |
| 2 7' - 10" | |
| 2 7' - 10 1/4" | |
| 2 7' - 10 3/4" | |
| 2 7' - 11" | |
| 4 7' - 11 1/4" | |

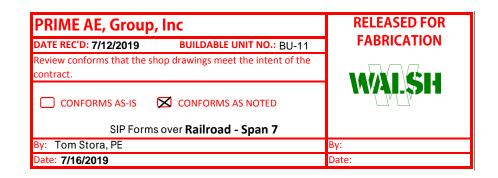
| | | AN 7 BAY 7, PHASE | |
|----------|----------|------------------------|-----------------|
| MARK | NO. PCS. | LENGTH
6' - 11 3/4" | DESCRIPTION |
| S7-B7-S1 | 4 | | BRIDGE DECK |
| | 2 | 7' - 0 1/4" | 3" DEEP |
| | 2 | 7' - 0 1/2" | 8" PITCH |
| | | 7' - 0 3/4" | 24" COVER |
| | 2 | 7' - 1" | CLOSED ENDS |
| | 2 | 7' - 1 1/2" | ASTM A653 |
| | | 7' - 1 3/4" | GRADE 50 |
| | 2 | 7' - 2" | GALV. G-235 |
| | | 7' - 2 1/4" | 20 GAGE |
| | 2 | 7' - 2 1/2" | I=1.002 in^4/ft |
| | 2 | 7' - 3" | S=0.541 in^3/ft |
| | 2 | 7' - 3 1/4" | 3-0.341111 3/10 |
| | 2 | 7' - 3 1/2" | - |
| | 2 | 7' - 3 3/4" | 1 |
| | 2 | 7' - 4 1/4" | 1 |
| | 2 | 7' - 4 1/2" | 1 |
| | 2 | 7' - 4 3/4" | 1 |
| | 2 | 7' - 5" | 1 |
| | 2 | 7' - 5 1/2" | - |
| | 2 | 7' - 5 3/4" | 1 |
| | 2 | 7' - 6" | 1 |
| | 2 | 7' - 6 1/4" | |
| | 2 | 7' - 6 3/4" | 1 |
| | 2 | 7' - 7" | |
| | 2 | 7' - 7 1/4" | 1 |
| | 2 | 7' - 7 1/2" | 1 |
| | 2 | 7' - 8" | 1 |
| | 2 | 7' - 8 1/4" | |
| | 2 | 7' - 8 1/2" |] |
| | 2 | 7' - 8 3/4" |] |
| | 2 | 7' - 9" |] |
| | 2 | 7' - 9 1/2" |] |
| | 2 | 7' - 9 3/4" |] |
| | 3 | 7' - 10" | I |

| BILL OF N | MATERIAL: SP | AN 7 BAY 8, PHASE | S1-P2-S1 |
|-----------|--------------|-------------------|-----------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B8-S1 | 4 | 6' - 11 1/4" | BRIDGE DECK |
| | 2 | 6' - 11 1/2" | 3" DEEP |
| | 2 | 7' - 0" | 8" PITCH |
| | 2 | 7' - 0 1/2" | 24" COVER |
| | 2 | 7' - 0 3/4" | CLOSED ENDS |
| | 2 | 7' - 1 1/4" | ASTM A653 |
| | 2 | 7' - 1 1/2" | GRADE 50 |
| | 2 | 7' - 2" | |
| | 2 | 7' - 2 1/2" | GALV. G-235 |
| | 2 | 7' - 2 3/4" | 20 GAGE |
| | 2 | 7' - 3 1/4" | I=1.002 in^4/ft |
| | 2 | 7' - 3 1/2" | S=0.541 in^3/ft |
| | 2 | 7' - 4" | |
| | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | |
| | 2 | 7' - 5 1/4" | |
| | 2 | 7' - 5 1/2" | |
| | 2 | 7' - 6" | |
| | 2 | 7' - 6 1/2" | |
| | 2 | 7' - 6 3/4" | |
| | 2 | 7' - 7 1/4" | |
| | 2 | 7' - 7 1/2" | |
| | 2 | 7' - 8" | |
| | 2 | 7' - 8 1/2" | |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9 1/4" | |
| | 2 | 7' - 9 1/2" | |
| | 2 | 7' - 10" | |
| | 2 | 7' - 10 1/2" | |
| | 2 | 7' - 10 3/4" | |
| | 2 | 7' - 11 1/4" | |
| | 2 | 7' - 11 1/2" | |
| | 2 | 8' - 0" | |
| | 3 | 8' - 0 1/4" | |

| MARK | NO. PCS. | LENGTH | DESCRIPTION |
|----------|----------|--------------|-----------------|
| S7-B9-S1 | 4 | 6' - 11 1/4" | BRIDGE DECK |
| | 2 | 6' - 11 3/4" | 3" DEEP |
| | 2 | 7' - 0" | 8" PITCH |
| | 2 | 7' - 0 1/4" | 24" COVER |
| | 2 | 7' - 0 1/2" | CLOSED ENDS |
| | 2 | 7' - 1" | ASTM A653 |
| | 2 | 7' - 1 1/4" | |
| | 2 | 7' - 1 1/2" | GRADE 50 |
| | 2 | 7' - 2" | GALV. G-235 |
| | 2 | 7' - 2 1/4" | 20 GAGE |
| | 2 | 7' - 2 1/2" | I=1.002 in^4/ft |
| | 2 | 7' - 2 3/4" | S=0.541 in^3/ft |
| | 2 | 7' - 3 1/4" | |
| | 2 | 7' - 3 1/2" | |
| | 2 | 7' - 3 3/4" | |
| | 2 | 7' - 4 1/4" | |
| | 2 | 7' - 4 1/2" | |
| | 2 | 7' - 4 3/4" | |
| | 2 | 7' - 5" | |
| | 2 | 7' - 5 1/2" | |
| | 2 | 7' - 5 3/4" | |
| | 2 | 7' - 6" | |
| | 2 | 7' - 6 1/2" | |
| | 2 | 7' - 6 3/4" | |
| | 2 | 7' - 7" | |
| | 2 | 7' - 7 1/2" | |
| | 2 | 7' - 7 3/4" | |
| | 2 | 7' - 8" | |
| | 2 | 7' - 8 1/4" | |
| | 2 | 7' - 8 3/4" | |
| | 2 | 7' - 9" | |
| | 2 | 7' - 9 1/4" | |
| | 2 | 7' - 9 3/4" | |
| | 3 | 7' - 10" | I |

| | | AN 7 BAY 3, PHASE | |
|----------|----------|-------------------|-----------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B3-S2 | 3 | 7' - 1 1/2" | BRIDGE DECK |
| | 2 | 7' - 2" | 3" DEEP |
| | 2 | 7' - 2 1/4" | 8" PITCH |
| | 2 | 7' - 2 1/2" | 24" COVER |
| | 2 | 7' - 3" | CLOSED ENDS |
| | 2 | 7' - 3 1/4" | ASTM A653 |
| | 2 | 7' - 3 3/4" | |
| | 2 | 7' - 4" | GRADE 50 |
| | 2 | 7' - 4 1/2" | GALV. G-235 |
| | 2 | 7' - 4 3/4" | 20 GAGE |
| | 2 | 7' - 5" | I=1.002 in^4/ft |
| | 2 | 7' - 5 1/2" | S=0.541 in^3/ft |
| | 2 | 7' - 5 3/4" | |
| | 2 | 7' - 6 1/4" | |
| | 2 | 7' - 6 1/2" | |
| | 2 | 7' - 6 3/4" | |
| | 4 | 7' - 7 1/4" | 1 |

| BILL OF M | ATERIAL: SP | AN 7 BAY 4, PHASE | S1-P2-S2 |
|-----------|-------------|-------------------|-----------------|
| MARK | NO. PCS. | LENGTH | DESCRIPTION |
| S7-B4-S2 | 3 | 7' - 0 1/4" | BRIDGE DECK |
| | 2 | 7' - 0 3/4" | 3" DEEP |
| | 2 | 7' - 1" | 8" PITCH |
| | 2 | 7' - 1 1/2" | 24" COVER |
| | 2 | 7' - 1 3/4" | CLOSED ENDS |
| | 2 | 7' - 2 1/4" | 0-00-2 |
| | 2 | 7' - 2 1/2" | ASTM A653 |
| | 2 | 7' - 3" | GRADE 50 |
| | 2 | 7' - 3 1/4" | GALV. G-235 |
| | 2 | 7' - 3 1/2" | 20 GAGE |
| | 2 | 7' - 4" | I=1.002 in^4/ft |
| | 2 | 7' - 4 1/4" | S=0.541 in^3/ft |
| | 2 | 7' - 4 3/4" | |
| | 2 | 7' - 5" | |
| | 2 | 7' - 5 1/2" | |
| | 2 | 7' - 5 3/4" | |
| | 2 | 7' - 6" | |
| | 4 | 7' - 6 1/2" | |



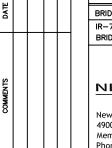
AMERICAN STRUCTUREPOINT, INC. ADDRESS: 7260 SHADELAND STATION, INDIANAPOLIS, IN 46256 TELEPHONE #: 317.547.5580 CERTIFICATE OF AUTHORITY # 016489

BRIDGE DECK GENERAL NOTES

- 1. NMBS will furnish only that material listed in the Bill of Material.
- 2. All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall conform to ASTM specification A-653 having a coating designation of G-235.
- 3. The contractor shall verify all dimensions.
- Extra concrete poured on deck slab as a result of these metal forms shall be provided by the General Contractor and will not be the responsibility of or to the account of NMBS.
- 5. ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE DECK. CENTER FORMS ON SUPPORT ANGLES.

 6. FOR THE SAFETY OF THE WORKMEN. ALL DECK SHEETS SHALL BE SECURELY
- FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION TRAFFIC IS PERMITTED.
- Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the continuous supervision of a properly trained foreman.
- 8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK.
- 9. Concrete should be poured from a low level to avoid impacting the deck, it should be placed uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone.
- 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact New Millennium Building Systems for additional instructions or clarification.
- 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct slab thickness and roadway slope.

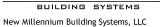
 12. Closure angles shall not be used as support for deck form panels.



REMARKS BRIDGE DECK BILL OF MATERIAL AND GENERAL NOTES IR-74 OVER MILL CREEK, RR & SPRING GROVE AVENUE BRIDGE NO. HAM-74-1908R (SPAN 7)











CUSTOMER WALSH CONSTRUCTION COMPANEY II PROJECT 183000 FED. NO. E170 (713) PID NO. 104667 LOCATION HAMILTON COUNTY, OHIO ENGINEER STATE OF OHIO DEPARTMENT OF TRANSPORTATION DRAWN TLC DATE 06/2019 NEW MILLENNIUM JOB NO. DRAWING NO. CHECKED TC DATE 06/2019 BR18-0527

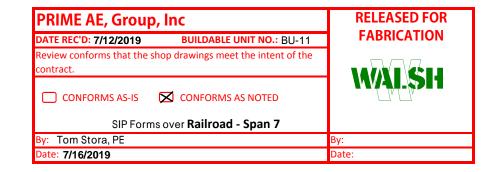
| BILL OF MATERIAL | | | | |
|----------------------------------|----------|------------------|--------------------------------|--|
| MARK | NO. PCS. | LENGTH | DESCRIPTION | |
| S1-P2-S1
A1 | 26 | 10'-0" | SUPPORT ANGLE
10 GAGE GALV. | |
| S1-P2-S1
A2 | 52 | 10'-0" | SUPPORT ANGLE
10 GAGE GALV. | |
| \$1-P2-\$2
A3 | 13 | 10'-0" | SUPPORT ANGLE
10 GAGE GALV. | |
| S1-P2-S1
A4
S1-P2-S2
A4 | 26
46 | 10'-0"
10'-0" | SUPPORT ANGLE 10 GAGE GALV. | |
| S1-P2-S2
A5 | 37 | 10'-0" | SUPPORT ANGLE
8 GAGE GALV. | |

| | B I LL O | F MATER I AL | | | | | | |
|----------------------------------------|-----------------|---------------------|--------------------------------|--|--|--|--|--|
| MARK | NO. PCS. | LENGTH | DESCRIPTION | | | | | |
| S1-P2-S2
A6 | 14 | 10'-0" | SUPPORT ANGLE
8 GAGE GALV. | | | | | |
| S1-P2-S1
B
S1-P2-S2
B | 8 | 10'-0"
10'-0" | CLOSURE ANGLE
16 GAGE GALV. | | | | | |
| S1-P2-S2
SC2.5 | 2 | 10'-0" | SHEET CLOSURE
20 GAGE GALV. | | | | | |
| S1-P2-S1
SC3.0
S1-P2-S2
SC3.0 | 21 | 10'-0"
10'-0" | SHEET CLOSURE
20 GAGE GALV. | | | | | |

| BILL OF MATERIAL | | | | | | | | | |
|-------------------------------------|-----------|--------------------|---------------------------------------------------------|--|--|--|--|--|--|
| MARK | NO. PCS. | LENGTH | DESCRIPTION | | | | | | |
| CA | 420 | 2" | CLIP ANGLE
12 GAGE GALV. | | | | | | |
| S1-P2-S1
BS20
BS6
S1-P2-S2 | 360
90 | 20 1/8"
6 1/16" | BEAM STRAPS
12 GAGE
2" WIDE FLAT | | | | | | |
| BS20
BS6 | 442
90 | 20 1/8"
6 1/16" | | | | | | | |
| SDS075 | 3,900 | | SELF DRILLING
SCREWS
1/4-14x3/4"
CADMIUM PLTD. | | | | | | |
| S1-P2-S1
A7
S1-P2-S2
A7 | 13
13 | 2"
2" | SUPPORT ANGLE
10 GAGE GALV. | | | | | | |
| | | | SUPPORT ANGLE
10 GAGE GALV. | | | | | | |
| S1-P2-S1
A8
S1-P2-S1
A8 | 1 | 10'-0"
10'-0" | 2" | | | | | | |

| *ANGLE SUPPORT LIMITS CHART | | | | | | | | |
|-----------------------------|-------------|-------------|--|--|--|--|--|--|
| MARK | MAX. HAUNCH | SIP PROFILE | | | | | | |
| A1 | 10 1/2" | 3" | | | | | | |
| A2 | 10 1/2" | 2 1/2" | | | | | | |
| A3 | 12" | 3" | | | | | | |
| A4 | 13" | 2 1/2" | | | | | | |
| A5 | 14 1/2" | 2 1/2" | | | | | | |
| A5 | 15" | 3" | | | | | | |
| A6 | 16 1/4" | 3" | | | | | | |

* MAX. MEASURED AT THE EDGE OF BEAM. IF A LARGER HAUNCH EXISTS, i.e. DUE TO CAMBER & DEAD LOAD DEFLECTION, THIS VALUE MUST BE PROVIDED TO NMBS PRIOR TO DRAWING APPROVAL.



| 1. | NMBS will furnish only that material listed in the Bill of Material. | |
|----|------------------------------------------------------------------------------------------------|-----------------------------------|
| 2. | All material for bridge deck forms, support angles (Grade 50) and accessories (Grade 40) shall | AMERICAN STRUCTUREPOINT, INC. |
| | conform to ASTM specification A-653 having a coating designation of G-235. | ADDRESS: 7260 SHADELAND STATION, |
| 3. | The contractor shall verify all dimensions. | INDIANAPOLIS, IN 46256 |
| 4. | Extra concrete poured on deck slab as a result of these metal forms shall be provided by the | TELEPHONE #: 317.547.5580 |
| | General Contractor and will not be the responsibility of or to the account of NMBS. | CERTIFICATE OF AUTHORITY # 016489 |
| 5. | ALL DECK SHEETS SHALL HAVE A MINIMUM BEARING OF 1 1/2" AT EACH END OF THE | ı" |
| | DECK. CENTER FORMS ON SUPPORT ANGLES. | |
| 6. | FOR THE SAFETY OF THE WORKMEN, ALL DECK SHEETS SHALL BE SECURELY | |
| | FASTENED TO THE SUPPORT ANGLE AS THEY ARE PLACED, BEFORE CONSTRUCTION | |

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REMARKS OGE DECK BILL OF MATERIAL AND GENERAL NOTES -74 OVER MILL CREEK, RR & SPRING GROVE AVENUE DGE NO. HAM-74-1908R (SPAN 7)





Millennium Building Systems, LLC 00 Hungerford Road nphis, Tennessee 38118 ne: (901) 365-0226 | www.newmill.com

CHECKED TC DATE 06/2019



STEEL DECK INSTITUTE SCI

| CUSTO | MER | WALSH | WALSH CONSTRUCTION COMPANEY II | | | | | | | | | | |
|-----------------------------------------------------|-----|--------|--------------------------------|-------|---------------------------|--------|--------|------|-----|-----|------|---------------|-----|
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| LOCATI | ON | HAMILT | HAMILTON COUNTY, OHIO | | | | | | | | | | |
| ENGINEER STATE OF OHIO DEPARTMENT OF TRANSPORTATION | | | | | | TION | | | | | | | |
| DRAWN | TLC | DATE | 06/201 | 9 | NEW | MILLEN | NIUM J | 0B 1 | ١٥. | | DRAV | $\overline{}$ | NO. |
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BR18-0527

New Millennium Building Systems for additional instructions or clarification. 11. Vertical adjustment of support angles shall be determined in the field to maintain the correct

BRIDGE DECK GENERAL NOTES

Reinforcing steel and supports for reinforcing steel shall be placed in accordance with applicable drawings and in conformance with good reinforced concrete practice, and under the

8. CALCIUM CHLORIDE (OR ANY ADMIXTURE CONTAINING CHLORIDE SALTS) SHALL NOT

uniformly over the supporting structure (DECK SUPPORTS) and spread towards the center of the deck span. Workers should not congregate around the concrete placement zone. 10. If situations arise that are not specifically covered by these notes or placing plans, or if there is any doubt as to the correct procedure to be followed in erection, please contact

9. Concrete should be poured from a low level to avoid impacting the deck. It should be placed

continuous supervision of a properly trained foreman.

TRAFFIC IS PERMITTED.

slab thickness and roadway slope.

12. Closure angles shall not be used as support for deck form panels.

BE USED IN THE CONCRETE PLACED ON THE BRIDGE DECK.