

LOR-90-22.26

LORAIN COUNTY

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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 34 -36 FOR NAGEL ROAD AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Ernest Wray
DATE 8-7-11 DIRECTOR, DEPARTMENT OF
TRANSPORTATION



SIGNED: Paul J. Weimer
DATE: Mar 11, 2011

55 PUBLIC SQUARE, SUITE 1900
CLEVELAND, OH 44143

WATERWAY PERMIT CONDITIONS date: 3/22/11

SUPPLEMENTAL SPECIFICATIONS

BP-4.1	7/16/04	DM-1.1	1/21/11	GR-3.2	10/16/09	VPF-I-90	7/19/02	HL-60.31	1/19/07	TC-41.40	7/16/04	TC-83.20	1/21/11	800	1/21/11
BP-5.1	7/28/00	DM-1.2	10/21/05	GR-4.2	1/19/07					TC-41.41	1/21/11	TC-85.10	10/16/09	802	1/21/11
BP-7.1	10/15/10	DM-4.1	1/21/11	GR-5.1	4/16/10	HL-10.11	4/17/09	MT-95.31	7/17/09	TC-41.50	1/19/07	TC-85.20	10/15/10	804	1/19/07
BP-9.1	4/15/05	DM-4.2	1/21/05	GR-5.3	4/16/10	HL-10.12	10/15/10	MT-95.32	7/17/09	TC-42.10	1/19/07			816	1/19/07
				GR-6.2	4/16/10	HL-10.31	4/17/09	MT-95.40	7/17/09	TC-42.20	1/21/11			823	10/15/10
CB-1.1	7/15/05	WQ-1.3	10/17/08			HL-20.11	1/19/07	MT-101.60	4/17/09	TC-51.11	1/21/11			832	5/5/09
CB-1.2	7/15/05			RM-1.1	1/21/11	HL-20.21	1/19/07	MT-101.70	1/21/11	TC-52.10	1/19/07			835	4/18/08
CB-1.3	7/15/05	F-1.1	4/16/10	RM-3.1	10/15/10	HL-30.11	10/16/09	MT-102.10	7/17/09	TC-52.20	1/19/07			840	10/15/10
CB-2.1	7/15/05	F-2.1	7/28/00	RM-4.2	10/15/10	HL-30.21	1/19/07	MT-105.10	1/16/09	TC-61.30	4/16/10			861	10/15/10
CB-2.2	7/15/05	F-3.1	4/16/10	RM-4.5	10/16/09	HL-30.22	4/17/09			TC-65.10	1/21/05			898	1/21/11
CB-2.3	7/15/05	F-3.3	7/28/00	RM-4.6	4/16/10	HL-30.31	4/17/09	TC-12.30	1/21/11	TC-65.11	1/21/05			904	1/19/07
		F-3.4	7/28/00			HL-30.41	10/15/10	TC-21.10	1/19/07	TC-71.10	1/21/11			987	1/16/09
HW-1.1	7/30/07			AS-1-81	7/19/02	HL-40.20	1/19/07	TC-21.20	1/21/11	TC-72.20	10/16/09			SPECIAL PROVISIONS	
HW-2.2	7/30/07	GR-1.1	7/16/04	GSD-1-96	7/19/02	HL-50.21	1/19/07	TC-41.10	10/19/07	TC-73.10	1/19/01				
		GR-2.1	1/16/04	SBR-1-99	7/19/02	HL-60.11	1/19/07	TC-41.20	1/19/01	TC-81.21	1/21/11				
MH-1.2	1/20/06	GR-3.1	10/16/09	SIGN-1-96	7/19/02	HL-60.21	1/19/07	TC-41.30	1/19/07	TC-82.10	1/21/11				

**SPECIAL
PROVISIONS**



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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):
AS-1-81 DATED (REVISED) 07-19-02
SBR-1-99 DATED (REVISED) 07-19-02
AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):
898 DATED 10-15-10

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, JANUARY 2004 WITH JANUARY 2010 REVISIONS.

DESIGN LOADING:

DESIGN LOADING: HS20-44 AND THE ALTERNATE MILITARY LOADING
FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/FT².

DESIGN DATA :

CONCRETE CLASS QSC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)
CONCRETE CLASS QSC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)
REINFORCING STEEL - ASTM A615 OR A996 GRADE 60, MINIMUM YIELD STRENGTH 60 KSI, EXPOXY COATED

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL
2½" CONCRETE COVER

MONOLITHIC WEARING SURFACE:

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

FOUNDATION BEARING PRESSURE:

STRIP FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM BEARING PRESSURE OF 3.81 TONS PER SQUARE FOOT. THE ALLOWABLE BEARING PRESSURE IS 4 TONS PER SQUARE FOOT.

FOOTINGS:

FOOTINGS SHALL EXTEND A MINIMUM OF 3 INCHES INTO BEDROCK OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER. AN ADDITIONAL 3" SLAB OF UNREINFORCED CONCRETE IS REQUIRED PER ITEM 503, UNCLASSIFIED EXCAVATION, INCLUDING ROCK AND SHALE, AS PER PLAN.

DECK PLACEMENT DESIGN ASSUMPTIONS:

TO COMPENSATE FOR FALSEWORK DEFLECTION AND FOR THE DEFLECTION OF THE SLAB AFTER THE FALSEWORK IS REMOVED, BUILD CAMBER INTO THE FALSEWORK ACCORDING TO CMS 508.02.

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 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

STRUCTURE GENERAL NOTES

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

REMOVE EXISTING ABUTMENTS AS PER PLANS. SEE SHEETS 6/21 AND 7/21.

ITEM 203 EMBANKMENT, AS PER PLAN:

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

ITEM 503, UNCLASSIFIED EXCAVATION, INCLUDING ROCK AND SHALE, AS PER PLAN:

THE TOP ELEVATION OF THE SHALE AND SILTSTONE BEDROCK MAY VARY WITH LOCATION. SLIGHT ADJUSTMENTS OF FOOTING DEPTH MAY BE REQUIRED IN THE FIELD. SOME OF THE SHALE BEDROCK ENCOUNTERED MAY BE SUSCEPTIBLE TO MECHANICAL WEATHERING AND THEREFORE THE CONTRACTOR MUST PLACE 3" THICK CONCRETE SLAB ON THE SHALE AS SOON AS THE FOOTING SUBGRADE IS EXPOSED.

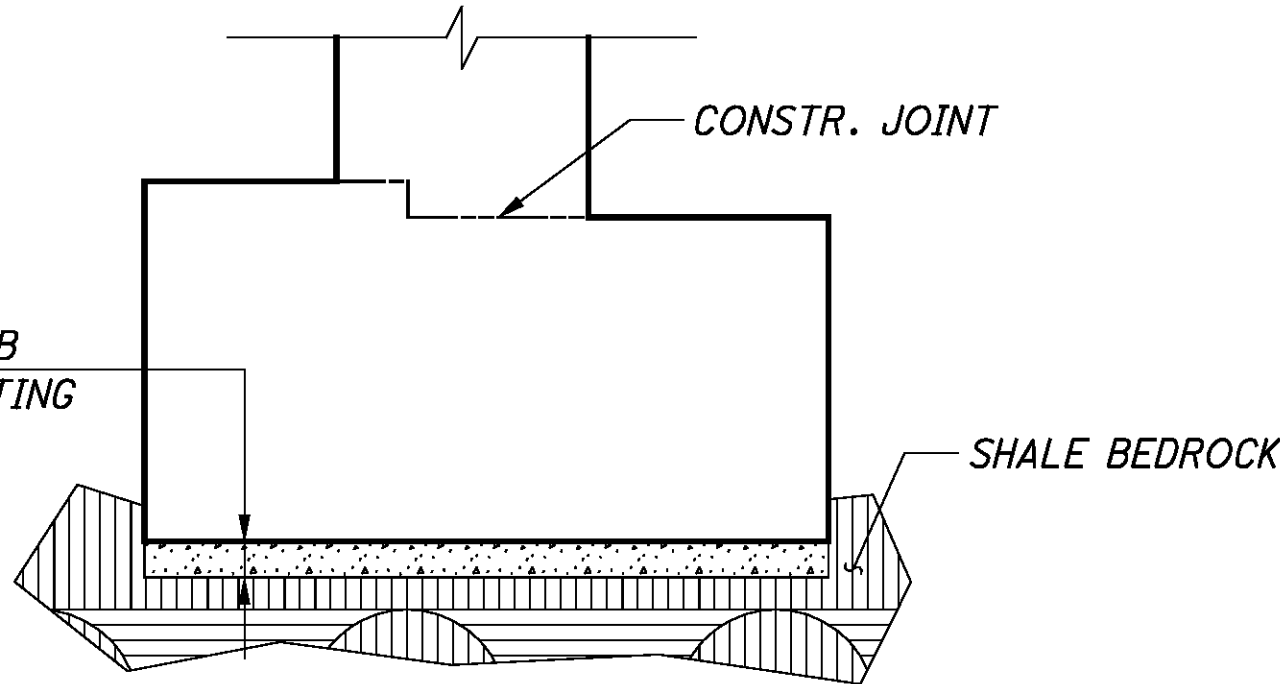
THE 3" CONCRETE SLAB SHALL BE CLASS C CONCRETE.

PRIOR TO PLACING THE CONCRETE SLAB, THE BEDROCK FOOTING SUBGRADE SHOULD BE EXAMINED BY A COMPETENT GEOTECHNICAL ENGINEER TO VERIFY THAT THE MAXIMUM FACTORED RESISTANCE OF THE SHALE CAN BE ACHIEVED.

IF ANY SOIL OR HIGHLY WEATHERED BEDROCK IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE MATERIAL BY DIRECTION OF THE GEOTECHNICAL ENGINEER AND REPLACE WITH CONCRETE. A CONTINGENCY QUANTITY OF 10 CU. YD. OF CLASS C CONCRETE SHALL BE INCLUDED WITH THE LUMP SUM BID FOR 503.

PAYMENT FOR THE 3" CONCRETE SLAB SHALL BE INCLUDED WITH ITEM 503 UNCLASSIFIED EXCAVATION, INCLUDING ROCK AND SHALE, AS PER PLAN.

UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH CMS ITEM 503 EXCEPT THAT THE BACKFILL MATERIAL SHALL BE MATERIAL CONFORMING TO CMS 703.17 (CMS 304 MATERIAL) AND MEET THE COMPACTION REQUIREMENTS OF CMS 304.05. IN ADDITION, THE BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN 6" LIFTS.



TYPICAL SLAB BELOW FOOTING

ITEM 512 SEALING OF CONCRETE SURFACES (EPOXY URETHANE)

THE SEALER COLOR SHALL BE LIGHT NEUTRAL (FEDERAL COLOR NUMBER 17778).

ITEM 898 - QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), AS PER PLAN:

APPROACH SLAB WIDENINGS AT EACH ABUTMENT SHALL BE CAST IN ONE PIECE.

FURNISH APPROACH SLABS CONFORMING TO CMS 526 EXCEPT CONCRETE SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 898, QC/QA CONCRETE, CLASS QSC2. THE ACCEPTED QUANTITIES SHALL INCLUDE: CONCRETE, TYPE 4-A CURBS, PARAPETS, REINFORCING STEEL, DOWELS, JOINT FILLERS, JOINT SEALERS, JOINT SEALS, AND WATERPROOFING. THE DEPARTMENT WILL MEASURE APPROACH SLABS BY THE NUMBER OF SQUARE YARDS. THE DEPARTMENT WILL INITIALLY PAY THE FULL BID PRICE TO THE CONTRACTOR UPON COMPLETING THE WORK. THE DEPARTMENT WILL CALCULATE THE FINAL ADJUSTED PAYMENT ACCORDING TO 898.17 AND INCLUDE APPROACH SLAB CONCRETE AND DECK CONCRETE IN THE SAME LOT TO DETERMINE FINAL PAY FACTORS.

ITEM 898 - QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN:

THE DEPARTMENT WILL CALCULATE THE FINAL ADJUSTED PAYMENT ACCORDING TO 898.17 AND INCLUDE APPROACH SLAB CONCRETE AND DECK CONCRETE IN THE SAME LOT TO DETERMINE FINAL PAY FACTORS.

SHEET LIST

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ABBREVIATIONS

B.	= BOTTOM	N.F.	= NEAR FACE
BRG.	= BEARING	P.E..J.F.	= PREFORMED EXPANSION JOINT FILLER
C/C	= CENTER TO CENTER	PROP.	= PROPOSED
C.J.	= CONSTRUCTION JOINT	REINF.	= REINFORCEMENT
CLR.	= CLEARANCE	REM	= REMOVED
CONSTR.	= CONSTRUCTION	REQ'D	= REQUIRED
CMS	= ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS	RET.	= RETAINING
CU. YD.	= CUBIC YARD	SAN.	= SANITARY
DWG.	= DRAWING	SER.	= SERIES
E.F.	= EACH FACE	SQ. FT.	= SQUARE FEET
EL./ELEV.	= ELEVATION	SQ. YD.	= SQUARE YARD
EQ.	= EQUAL	STA.	= STATION
EXP.	= EXPANSION	STD.	= STANDARD
F.F.	= FAR FACE	STM.	= STORM
FT	= FEET/FOOT	STR	= STRAIGHT
FWD.	= FORWARD	T.	= TOP
JT.	= JOINT	T/T	= TOE TO TOE
MAX.	= MAXIMUM	TYP.	= TYPICAL
MIN.	= MINIMUM	U.N.O.	= UNLESS NOTED OTHERWISE
MSE	= MECHANICALLY STABILIZED EARTH		

STRUCTURE GENERAL NOTES

BRIDGE NO. LOR-90-2200 L/R
I.R. 90 OVER HEIDER MAIN DITCH

LOR-90-22.26

PID No. 83607

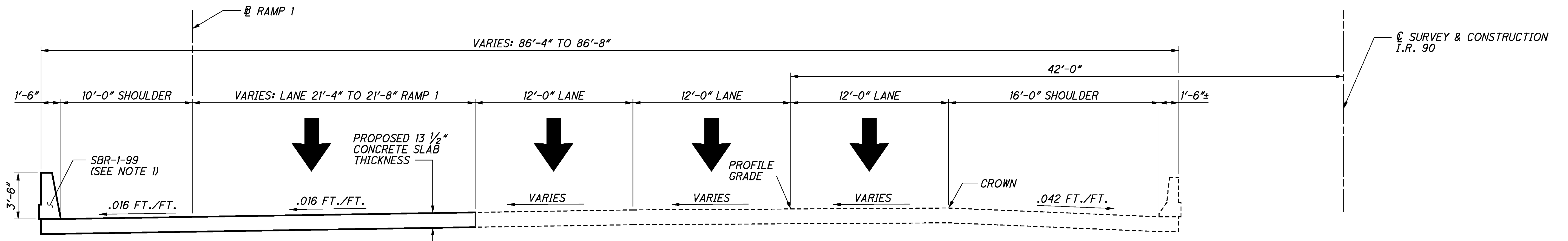
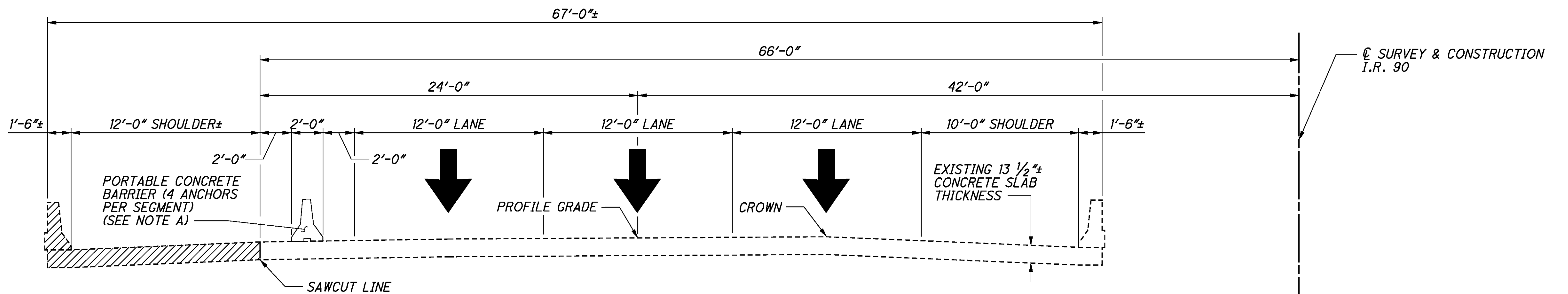
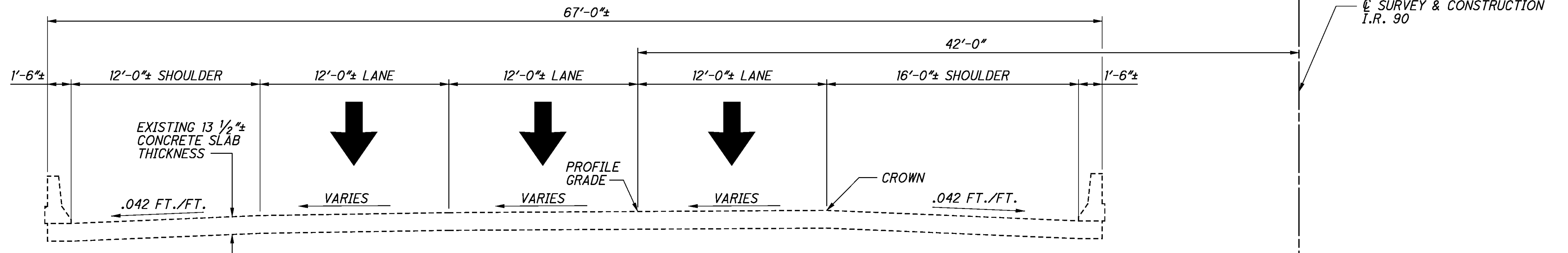
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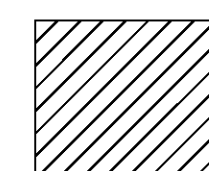


NOTE A:

FOR EXISTING BRIDGE DECK, ALL BARRIER SEGMENTS SHALL BE FASTENED USING APPROVED RESIN ANCHORS. SEE ODOT STANDARD DRAWING PCB-1 FOR ANCHORAGE DETAILS. ALL ANCHORS SHALL BE PLACED ON THE TRAFFIC SIDE OF THE BARRIER WITH THE ANCHOR PATTERN SYMMETRICAL ABOUT THE CENTER OF EACH SECTION.

PROPOSED WESTBOUND TRANSVERSE SECTION

LEGEND:



INDICATES AREA TO BE REMOVED. TO BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

NOTES:

- FOR ADDITIONAL BARRIER DETAILS, SEE ODOT STANDARD DRAWING SBR-1-99.
- FOR SEQUENCE OF CONSTRUCTION SEE SHEET 5121.

PHASE CONSTRUCTION DETAILS

BRIDGE NO. LOR-90-2200 L/R
I.R. 90 OVER HEIDER MAIN DITCH

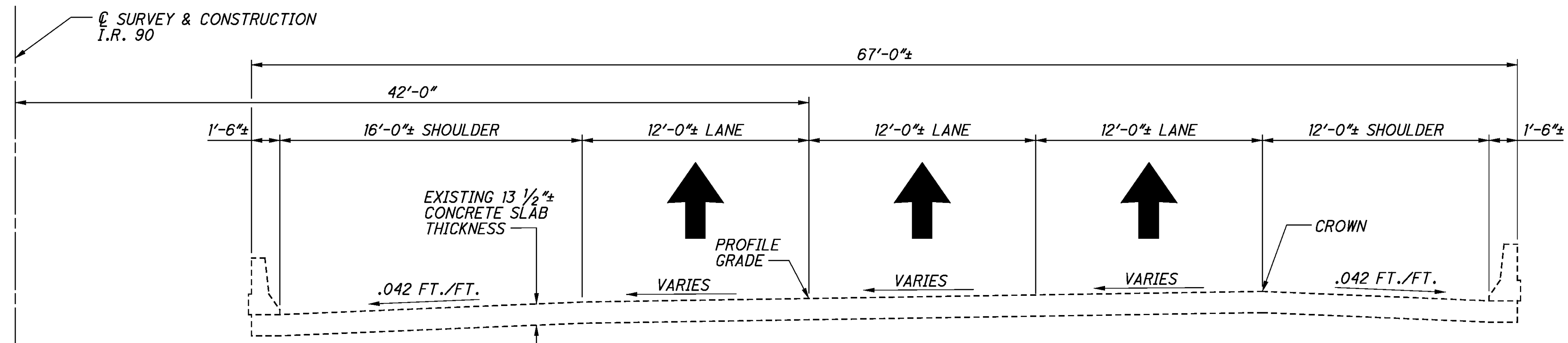
LOR-90-22.26

PID No. 83607

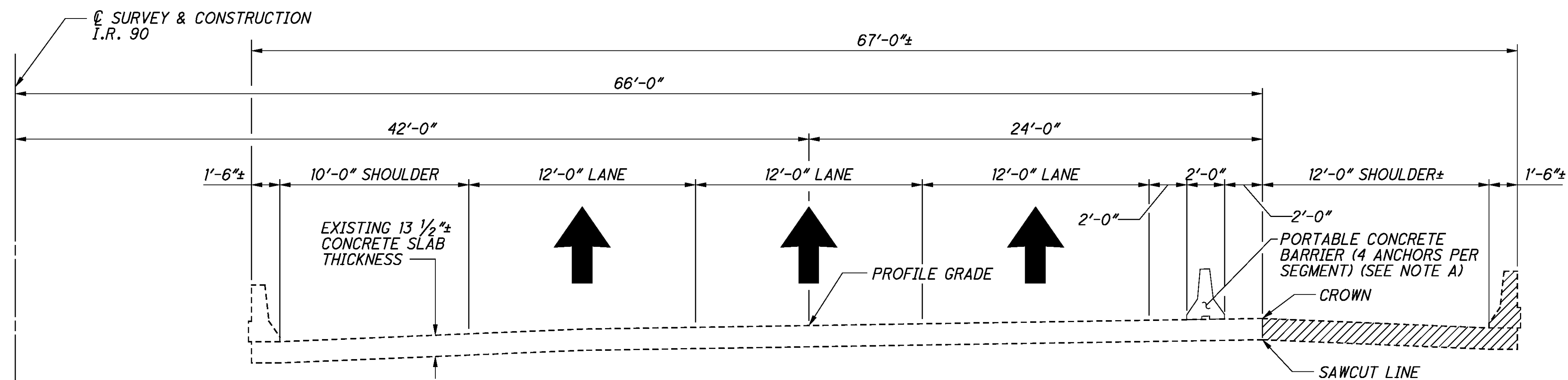
4 / 21

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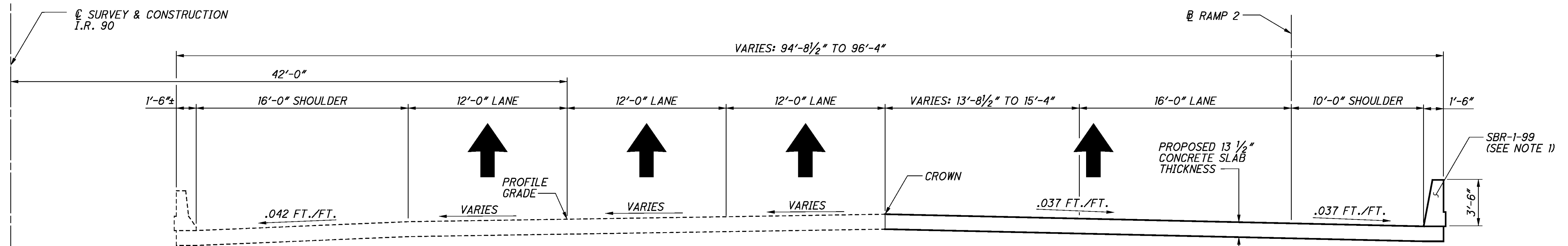
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EXISTING EASTBOUND TRANSVERSE SECTION



CONSTRUCTION PHASE 1B EASTBOUND TRANSVERSE SECTION

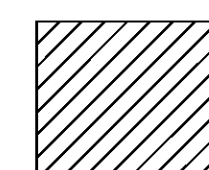


PROPOSED EASTBOUND TRANSVERSE SECTION

NOTE A:

FOR EXISTING BRIDGE DECK, ALL BARRIER SEGMENTS SHALL BE FASTENED USING APPROVED RESIN ANCHORS. SEE ODOT STANDARD DRAWING PCB-1 FOR ANCHORAGE DETAILS. ALL ANCHORS SHALL BE PLACED ON THE TRAFFIC SIDE OF THE BARRIER WITH THE ANCHOR PATTERN SYMMETRICAL ABOUT THE CENTER OF EACH SECTION.

LEGEND:



INDICATES AREA TO BE REMOVED. TO BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

NOTES:

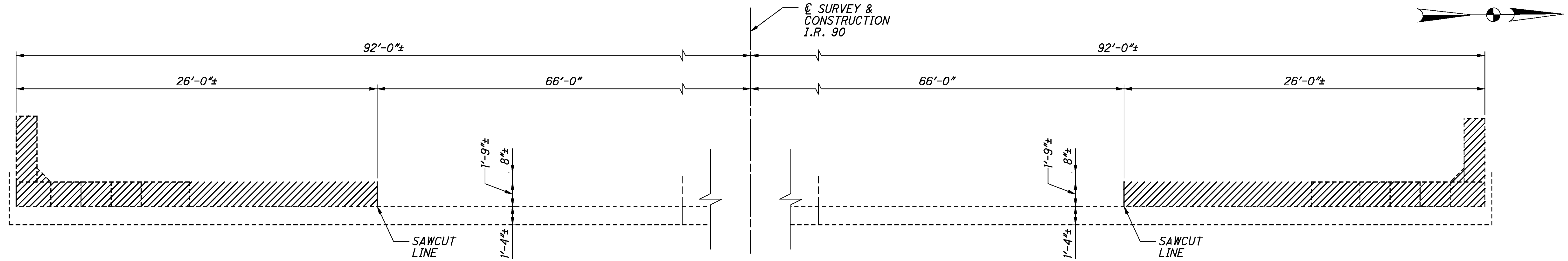
1. FOR ADDITIONAL BARRIER DETAILS, SEE ODOT STANDARD DRAWING SBR-1-99.

PROPOSED SEQUENCE OF CONSTRUCTION:

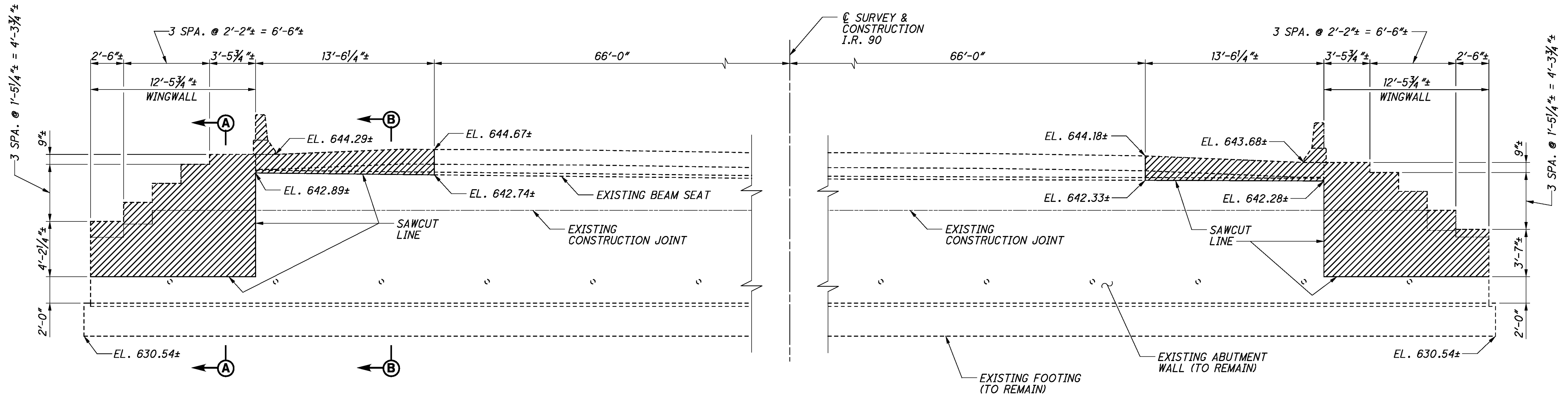
THE WORK TO BE DONE UNDER THIS CONTRACT IS AS SHOWN ON THE CONSTRUCTION PLANS AND, IN GENERAL, INCLUDES THE FOLLOWING:

1. PARTIAL REMOVAL OF EXISTING CONCRETE SLAB SUPERSTRUCTURE.
2. WIDEN SUBSTRUCTURE UNITS TO ACCOMODATE PROPOSED SLAB.
3. CONSTRUCT NEW CONCRETE SLAB SUPERSTRUCTURE WITH 42" SINGLE SLOPE DEFLECTOR PARAPETS.
4. SEAL SUBSTRUCTURE AND SUPERSTRUCTURE UNITS TO THE LIMITS SHOWN IN THE PLANS WITH EPOXY-URETHANE SEALER.
5. REPLACE APPROACH SLABS AND PROVIDE TYPE A PRESSURE RELIEF JOINTS.

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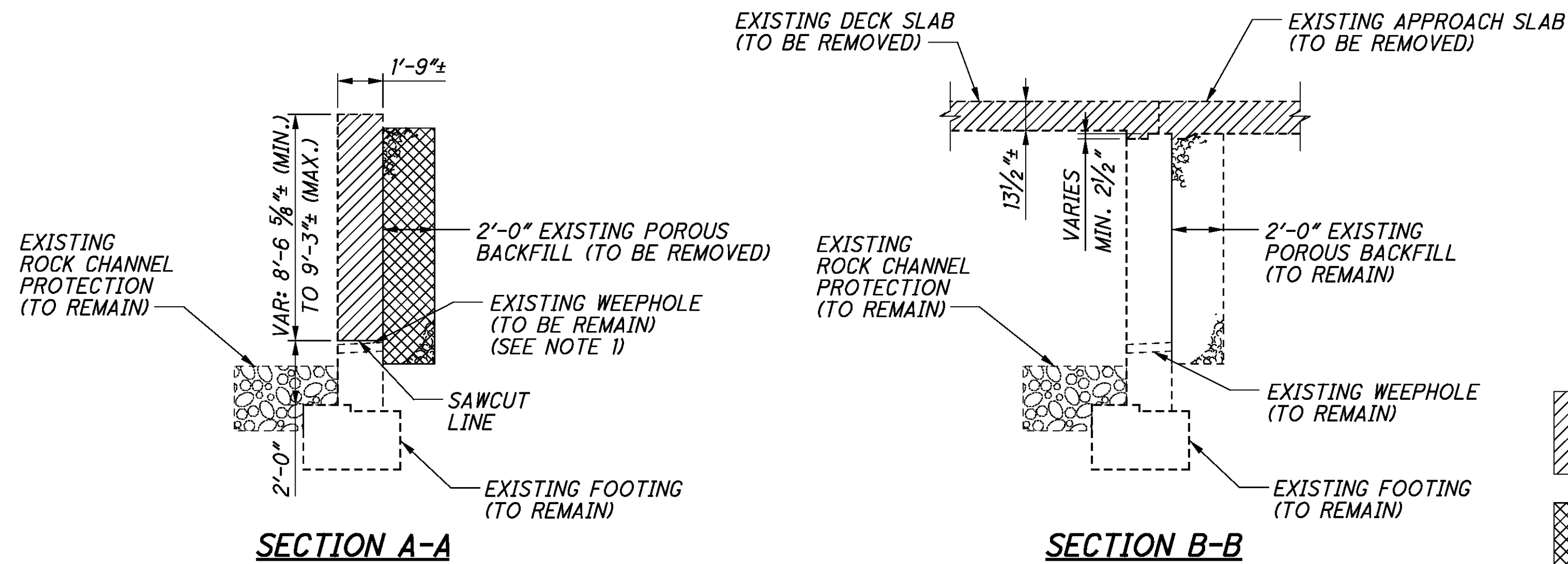


PLAN



ELEVATION

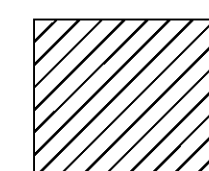
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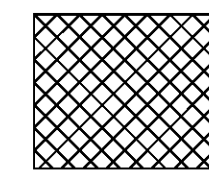
SECTION A-A

SECTION B-B

LEGEND:



INDICATES AREA TO BE REMOVED.
TO BE PAID FOR UNDER ITEM 202 -
PORTIONS OF STRUCTURE REMOVED,
AS PER PLAN.



INDICATES AREA TO BE REMOVED.
TO BE INCLUDED FOR PAYMENT WITH
ITEM 518 - POROUS BACKFILL WITH
FILTER FABRIC.

NOTE:

1. ANY DAMAGED WEEPHOLES, AS A RESULT OF SAW CUTTING
AND REMOVAL OF EXISTING CONCRETE SHALL BE REPAIRED
OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

LOR-90-22.26
PID No. 83607

6/21

481
609

REAR ABUTMENT REMOVAL DETAILS

BRIDGE NO. LOR-90-2200 L/R
I.R. 90 OVER HEIDER MAIN DITCH

DESIGNED
DWC
CHECKED
ECM

DRAWN
DWC
REVISED

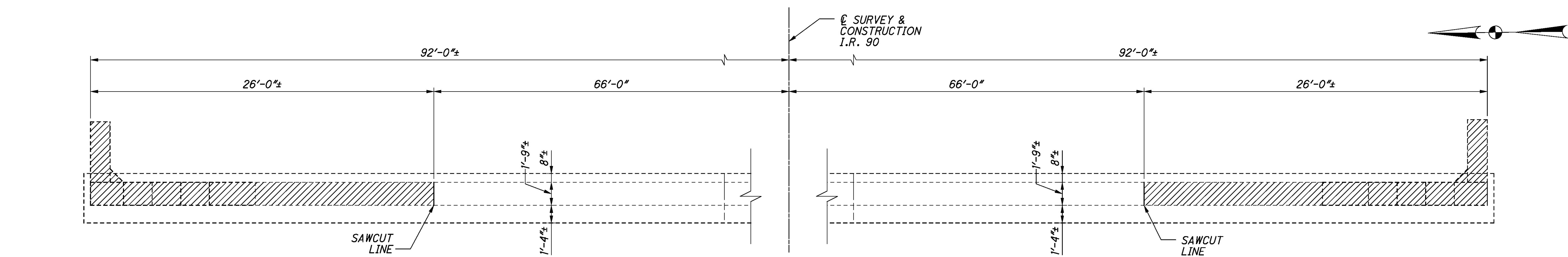
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DATE
4/7/10

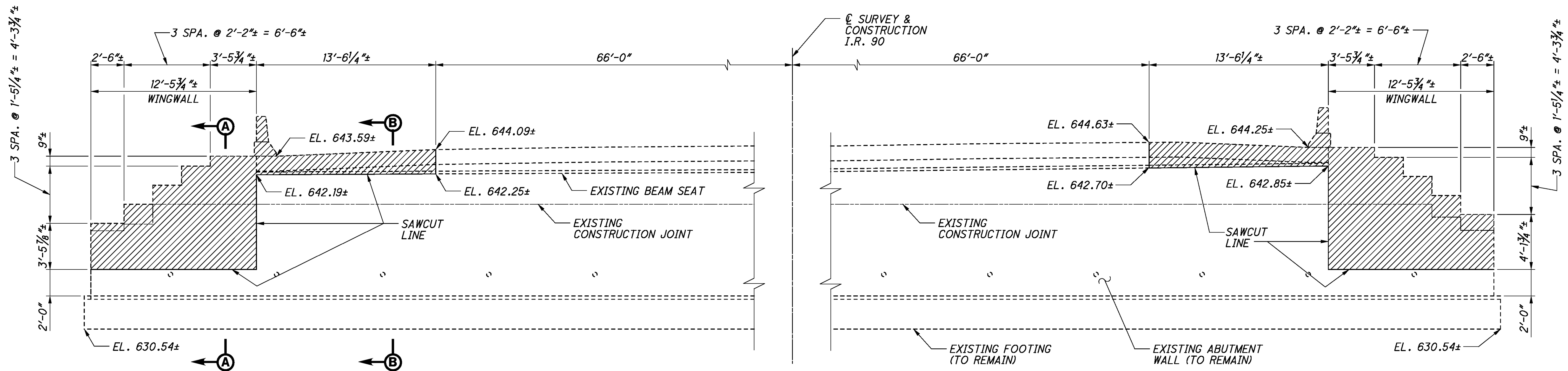
STRUCTURE FILE NUMBER
4705130 & 4705165

DESIGN AGENCY
ItranSystems
55 PUBLIC SQUARE, SUITE 1800
CLEVELAND, OHIO 44113

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PLAN



ELEVATION
(LOOKING UPSTATION)

NOTES:

1. FOR NOTES, LEGEND, SECTION A-A AND SECTION B-B, SEE SHEET 6/21.

LOR-90-22.26
PID No. 83607

7 / 21

482
609

FORWARD ABUTMENT REMOVAL DETAILS

BRIDGE NO. LOR-90-2200 L/R

I.R. 90 OVER HEIDER MAIN DITCH

DESIGNED
DWC

CHECKED
ECM

DRAWN
DWC

REVISED

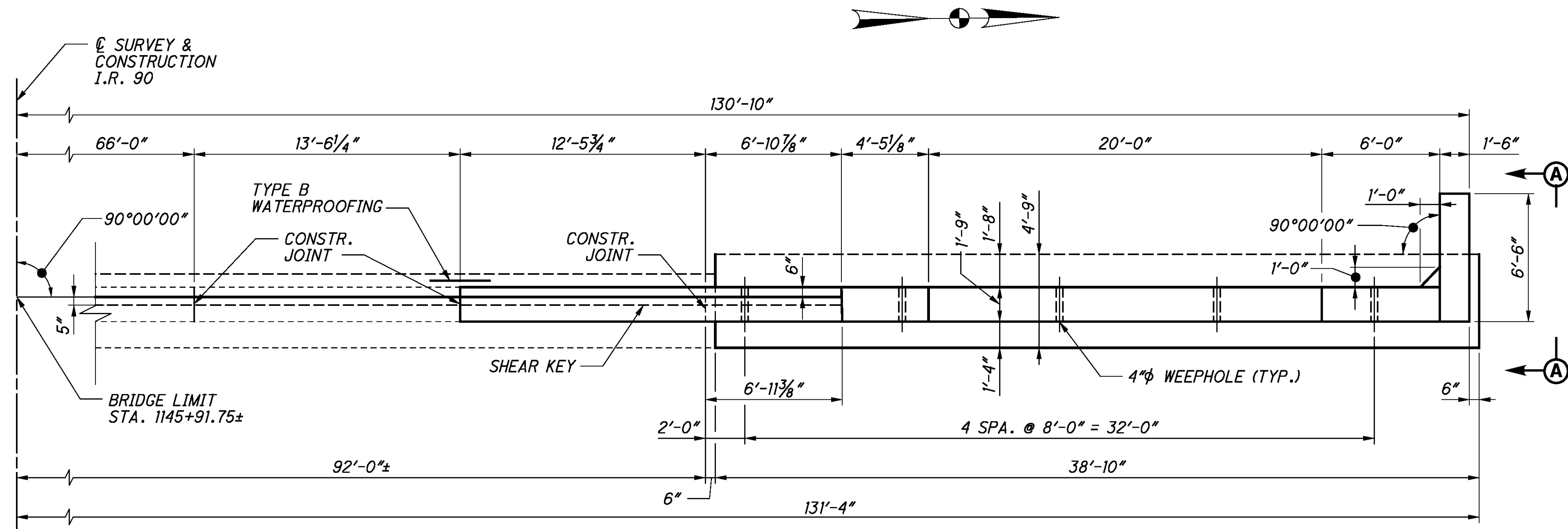
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STRUCTURE FILE NUMBER
4705130 & 4705165

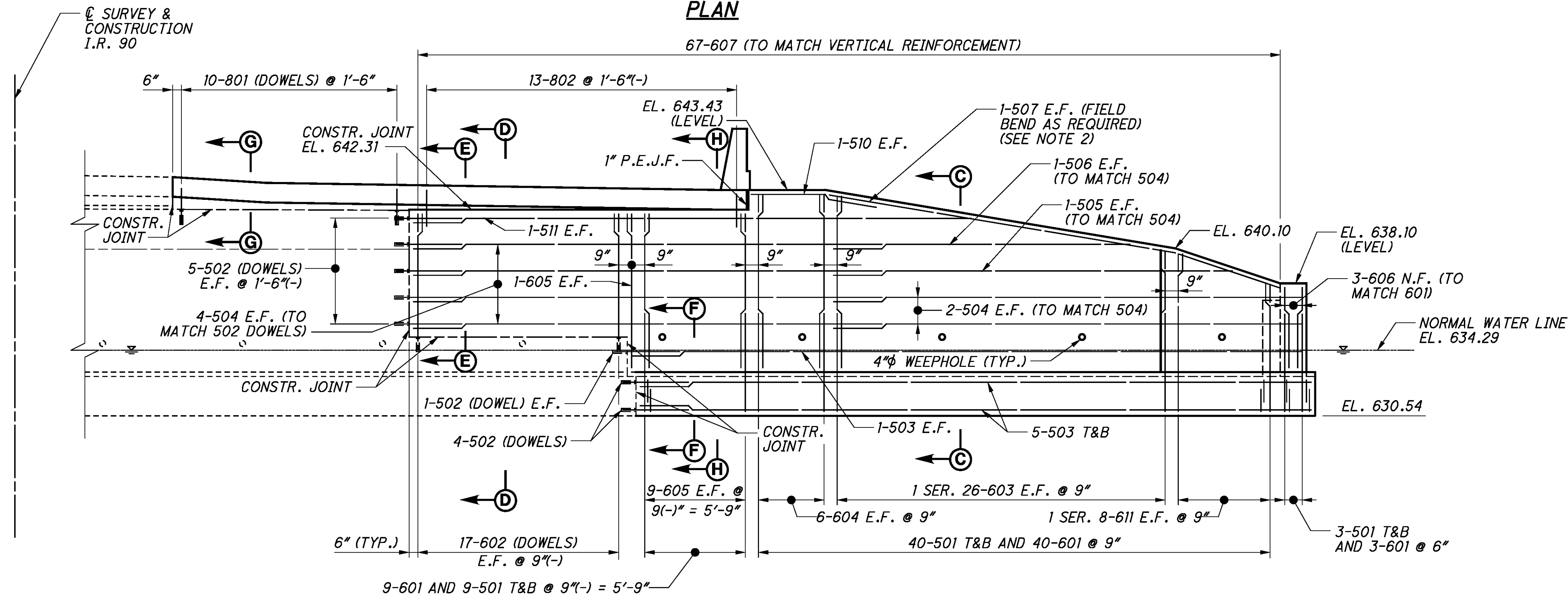
DATE
4/7/10

DESIGN AGENCY
tranSystems
55 PUBLIC SQUARE, SUITE 1800
CLEVELAND, OHIO 44113

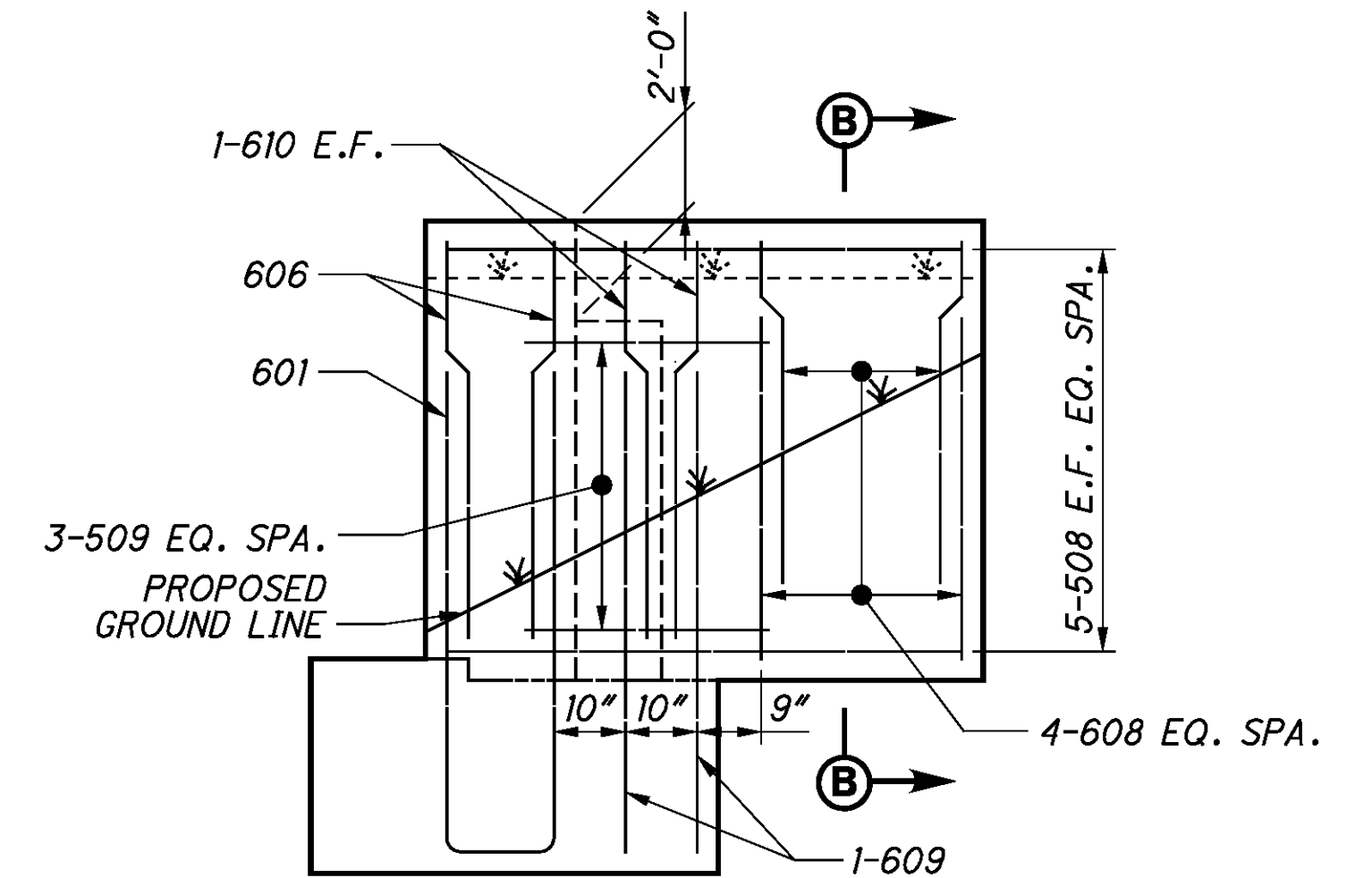
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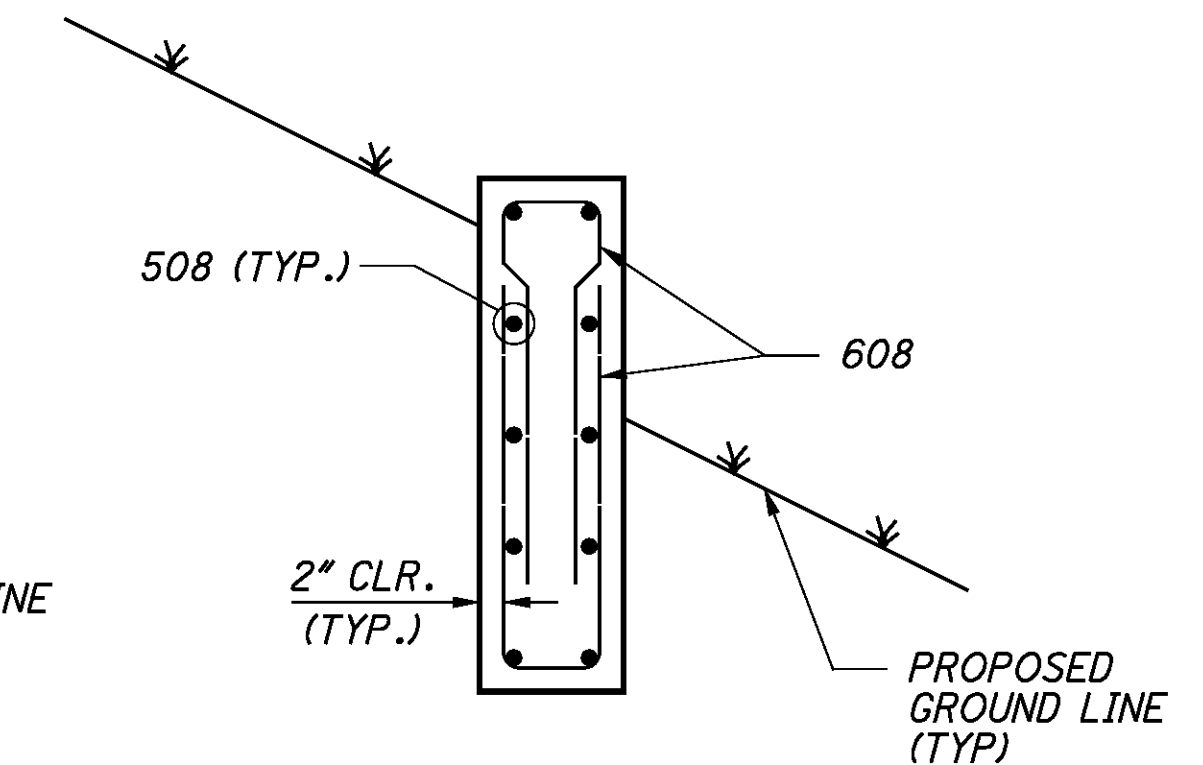
PLAN



REAR ABUTMENT PART ELEVATION



VIEW A-A



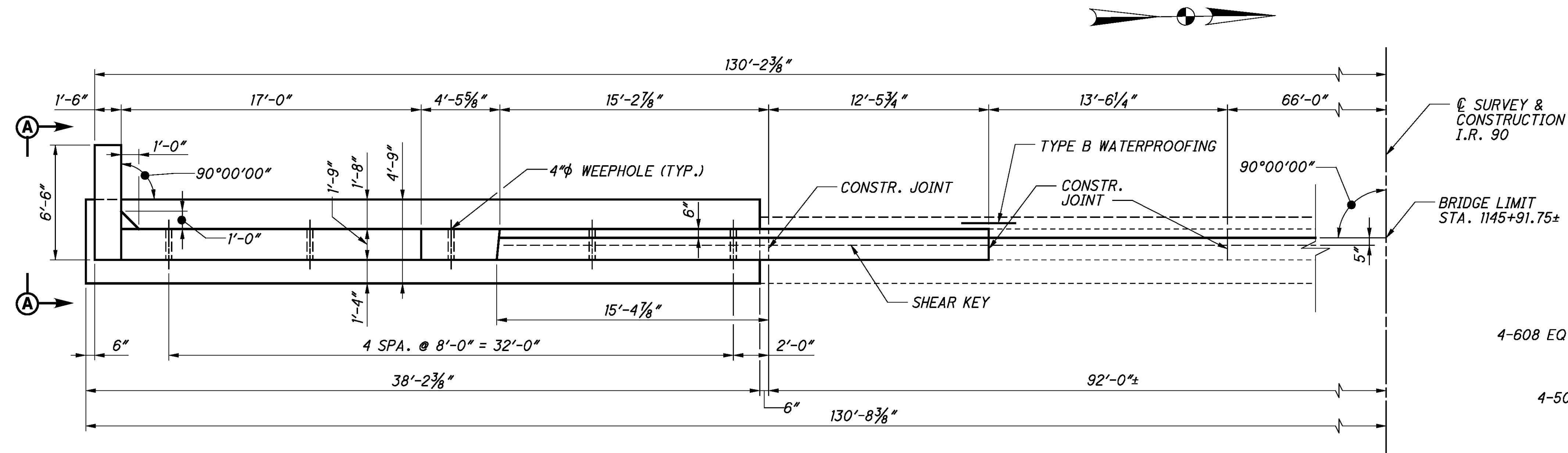
SECTION B-B

DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

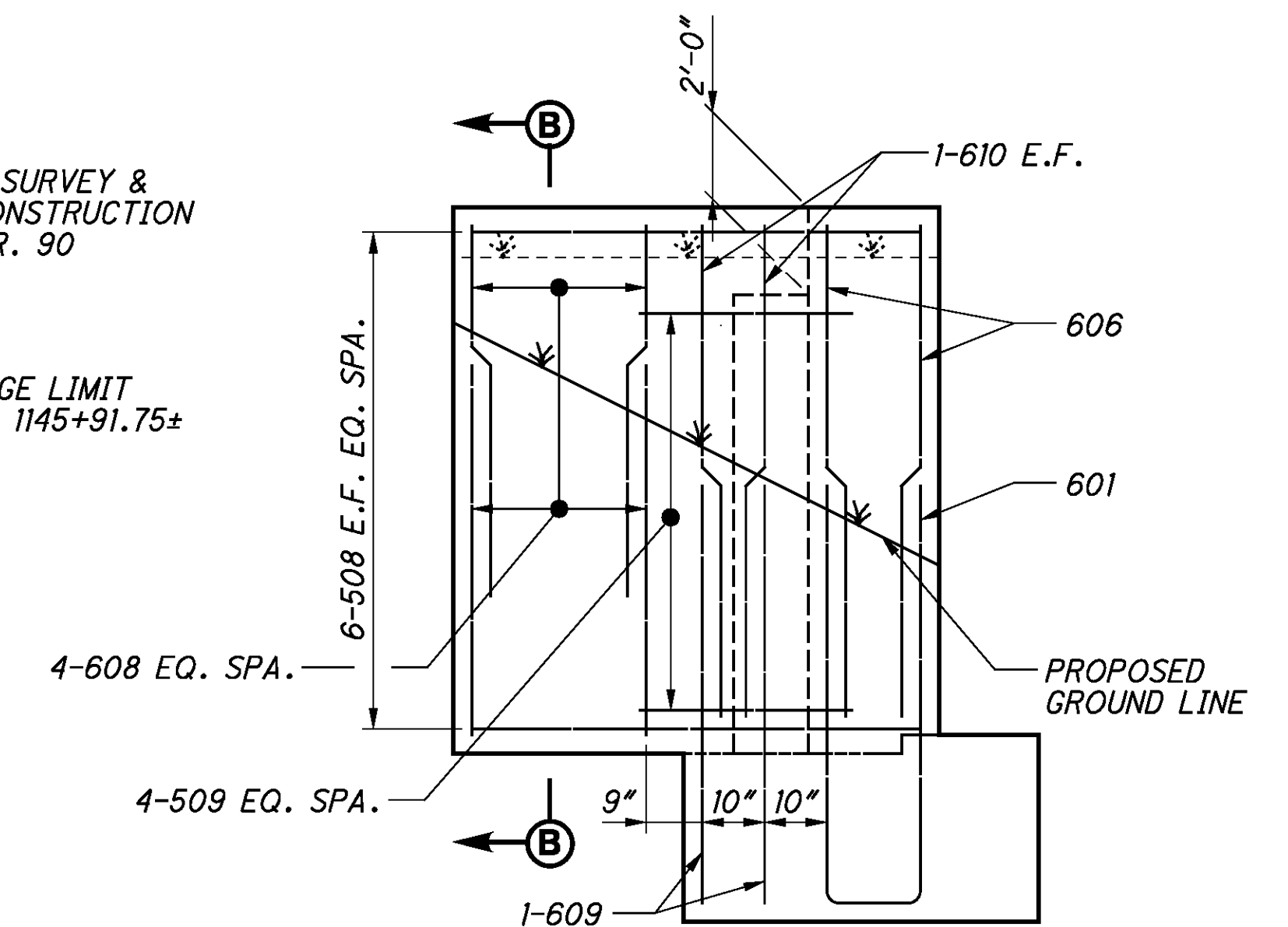
NOTES:

- FOR SECTIONS C-C, D-D, E-E, F-F, G-G AND H-H AND LAP LENGTH TABLE, SEE SHEET 10/21.
- FIELD BENDING OF BARS SHALL BE CONSIDERED INCIDENTAL TO ITEM 509 - EPOXY REINFORCING STEEL.
- ALL BARS FOR THE NORTHWEST ABUTMENT EXTENSION SHALL HAVE THE PREFIX "B".
- ALL PROPOSED WEEPHOLES SHOULD BE SET 6" ABOVE NORMAL WATER LINE.
- PLACE TYPE B WATERPROOFING 3' WIDE CENTERED ON VERTICAL AND HORIZONTAL JOINTS FROM THE BOTTOM OF THE FOOTING TO THE SEAT ELEVATION. INCLUDE THE COST IN ITEM 898 - QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE, AS PER PLAN.

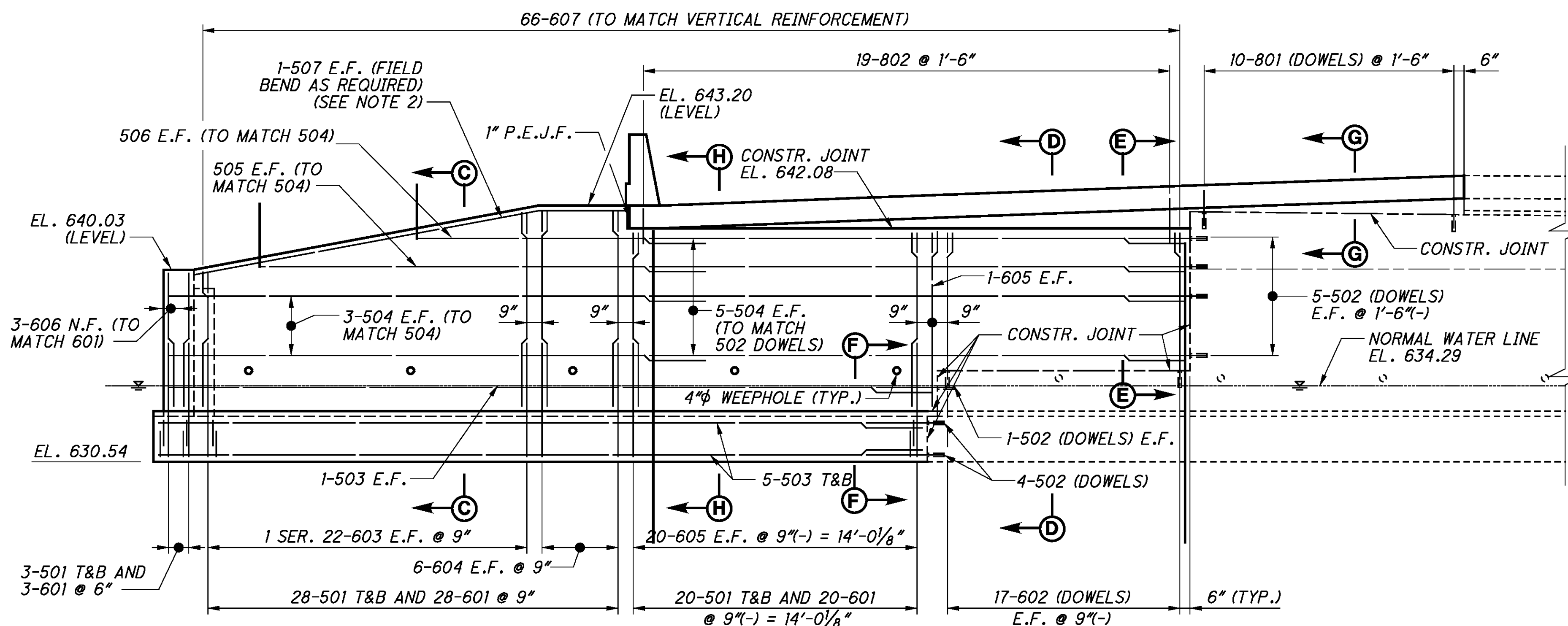
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PLAN

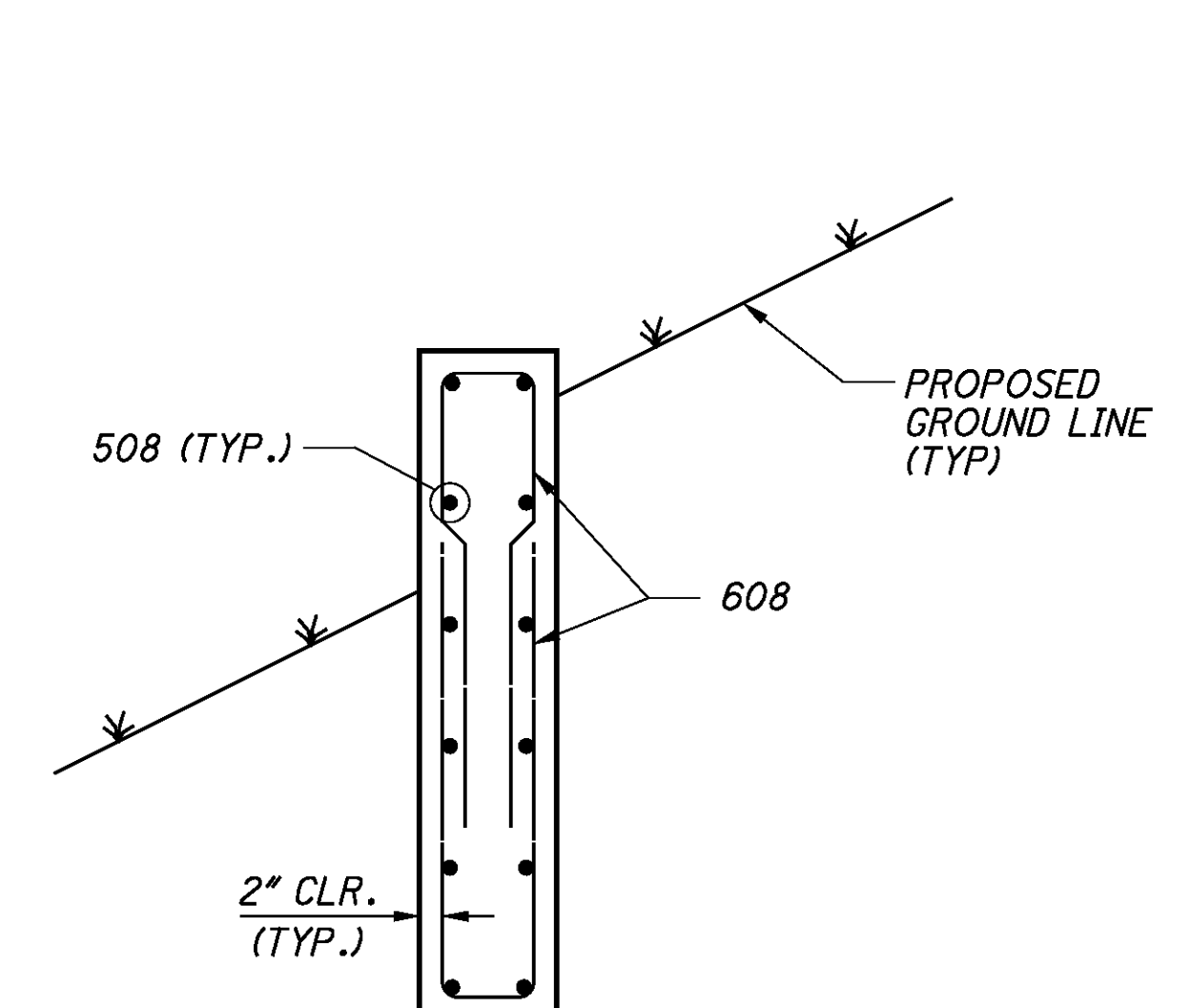


VIEW A-A



REAR ABUTMENT PART ELEVATION

DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

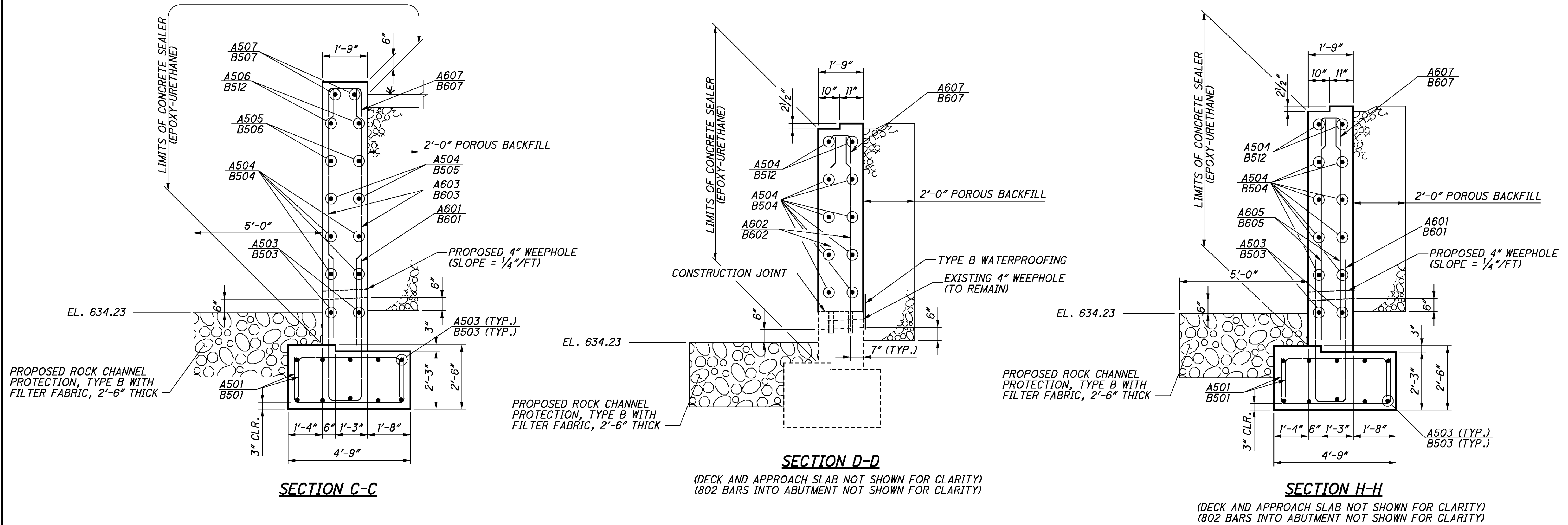


SECTION B-B

NOTES:

- FOR SECTIONS C-C, D-D, E-E, F-F, G-G AND H-H, SEE SHEET 10/21.
- FIELD BENDING OF BARS SHALL BE CONSIDERED INCIDENTAL TO ITEM 509 - EPOXY REINFORCING STEEL.
- ALL BARS FOR THE SOUTHWEST ABUTMENT EXTENSION SHALL HAVE THE PREFIX "A".
- ALL PROPOSED WEEPHOLES SHOULD BE SET 6" ABOVE NORMAL WATER LINE.
- PLACE TYPE B WATERPROOFING 3' WIDE CENTERED ON VERTICAL AND HORIZONTAL JOINTS FROM THE BOTTOM OF THE FOOTING TO THE SEAT ELEVATION. INCLUDE THE COST IN ITEM 898 - QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE, AS PER PLAN.

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SECTION D-D

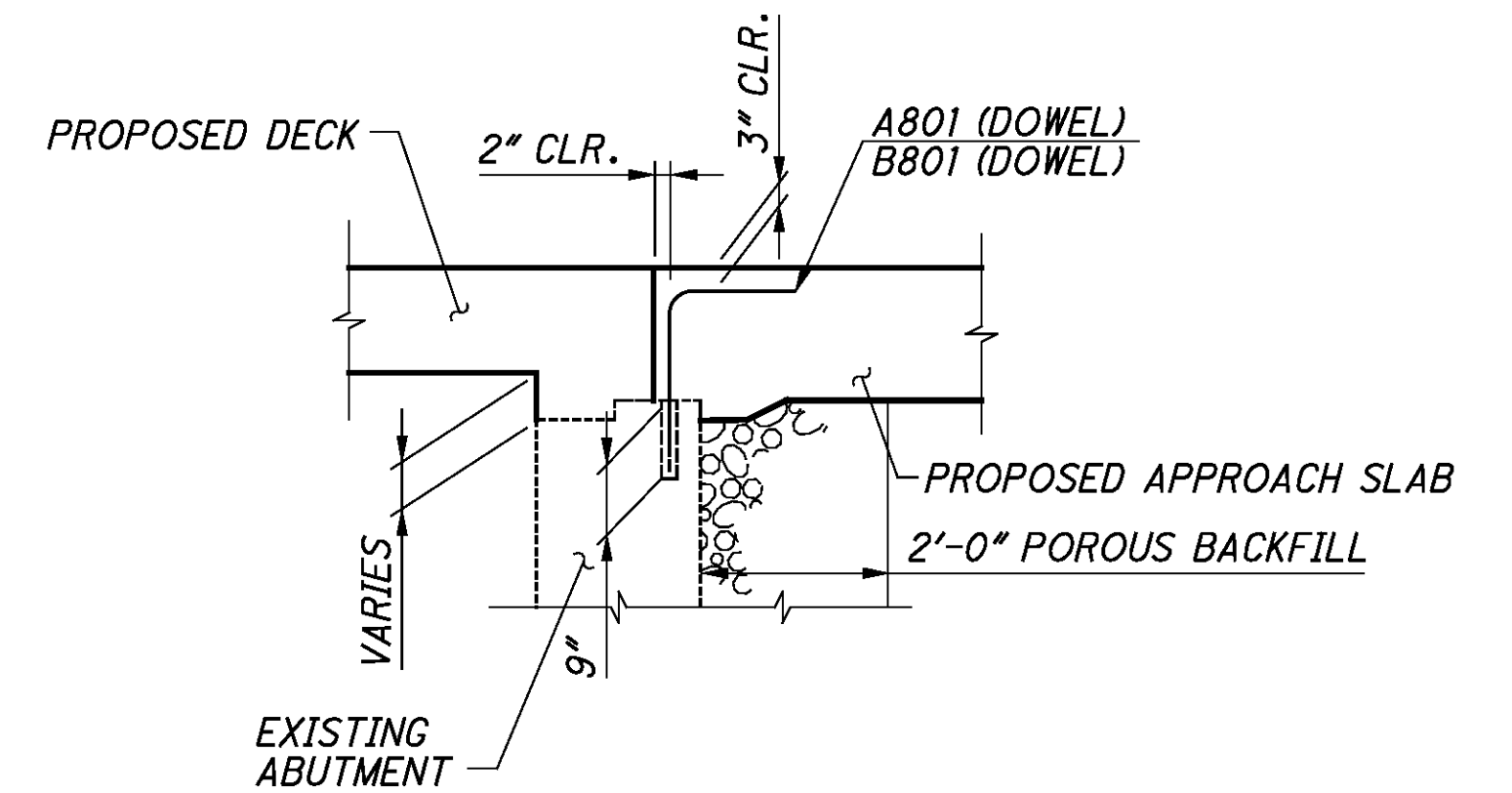
(DECK AND APPROACH SLAB NOT SHOWN FOR CLARITY)
(802 BARS INTO ABUTMENT NOT SHOWN FOR CLARITY)

SECTION H-H

(DECK AND APPROACH SLAB NOT SHOWN FOR CLARITY)
(802 BARS INTO ABUTMENT NOT SHOWN FOR CLARITY)

NOTES:

- FOR LOCATION OF SECTIONS C-C, D-D, E-E, F-F, G-G AND H-H, SEE SHEETS 8/21 AND 9/21.
- FOR PLACEMENT OF 802 BARS, SEE SECTION A-A SHEET 14/21.
- ALL BARS FOR THE SOUTHWEST ABUTMENT EXTENSION SHALL BE PREFIXED "A". ALL BARS FOR THE NORTHWEST ABUTMENT EXTENSION SHALL BE PREFIXED "B".
- PLACE TYPE B WATERPROOFING 3' WIDE CENTERED ON VERTICAL AND HORIZONTAL JOINTS FROM THE BOTTOM OF THE FOOTING TO THE SEAT ELEVATION. INCLUDE THE COST IN ITEM 898 - QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE, AS PER PLAN.
- POROUS BACKFILL WITH FILTER FABRIC, 2'-6" THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1' BELOW THE EMBANKMENT SURFACE, AND Laterally TO THE ENDS OF THE WINGWALLS. PLACE TWO CUBIC FEET OF BAGGED NO. 3 AGGREGATE AT EACH WEEPHOLE. THE DEPARTMENT WILL INCLUDE BAGGED AGGREGATE WITH POROUS BACKFILL FOR PAYMENT.



SECTION G-G

DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

LAP LENGTH TABLE	
BAR	REQUIRED LAP LENGTH
NO. 5 HORIZONTAL	2'-9" MIN.
NO. 6 VERTICAL	3'-1" MIN.

VIEW E-E (DOWEL PLACEMENT)

(NORTHWEST SHOWN, SOUTHWEST SIMILAR)

VIEW F-F (DOWEL PLACEMENT)

(NORTHWEST SHOWN, SOUTHWEST SIMILAR)

REAR ABUTMENT SECTIONS

BRIDGE NO. LOR-90-2200 L/R
I.R. 90 OVER HEIDER MAIN DITCH

LOR-90-22.26

PID No. 83607

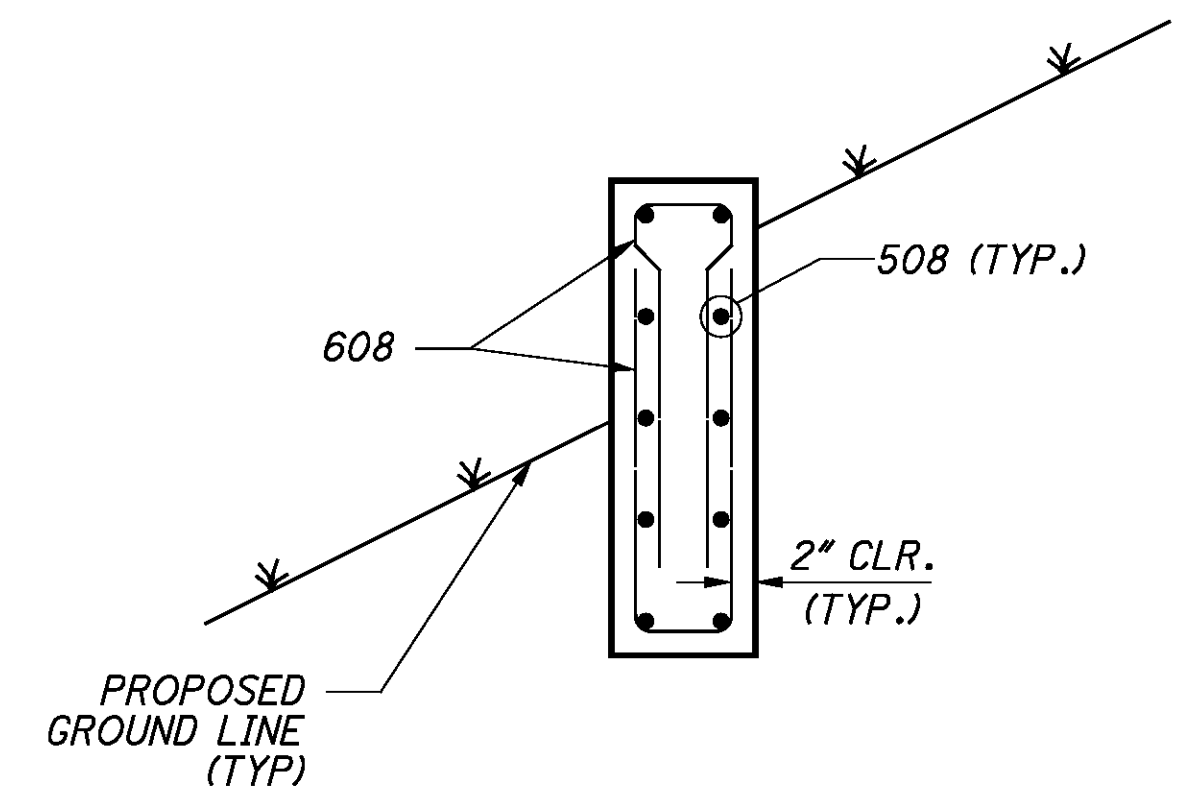
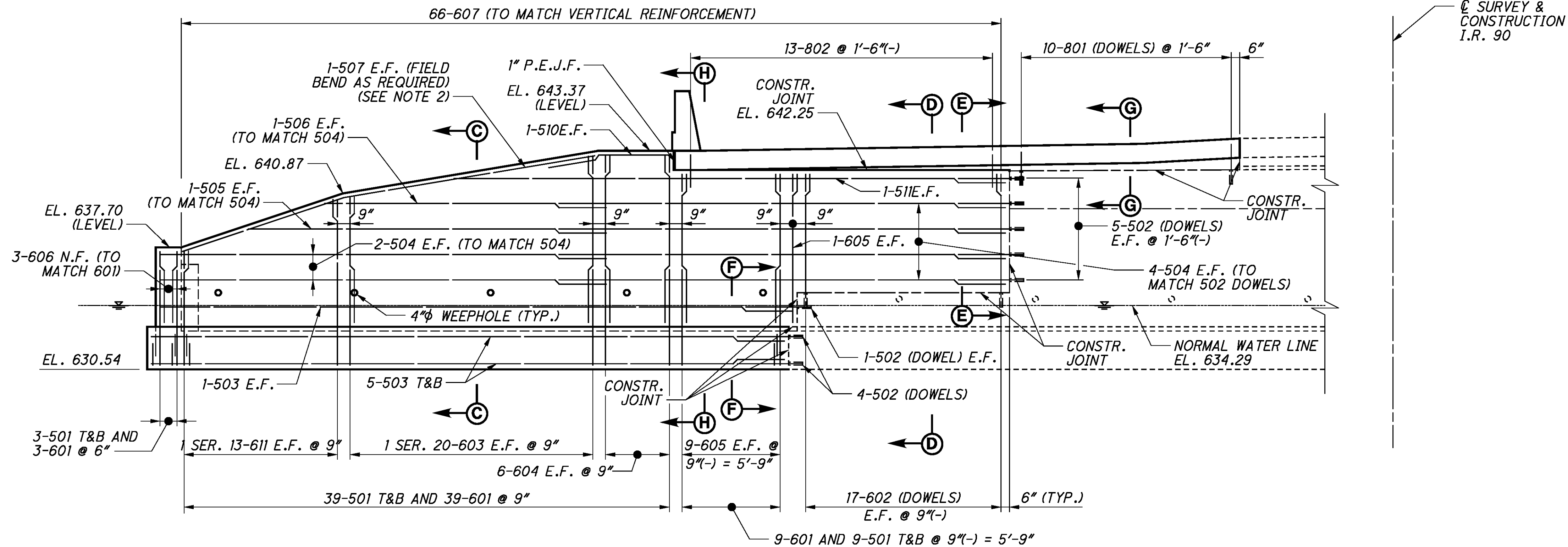
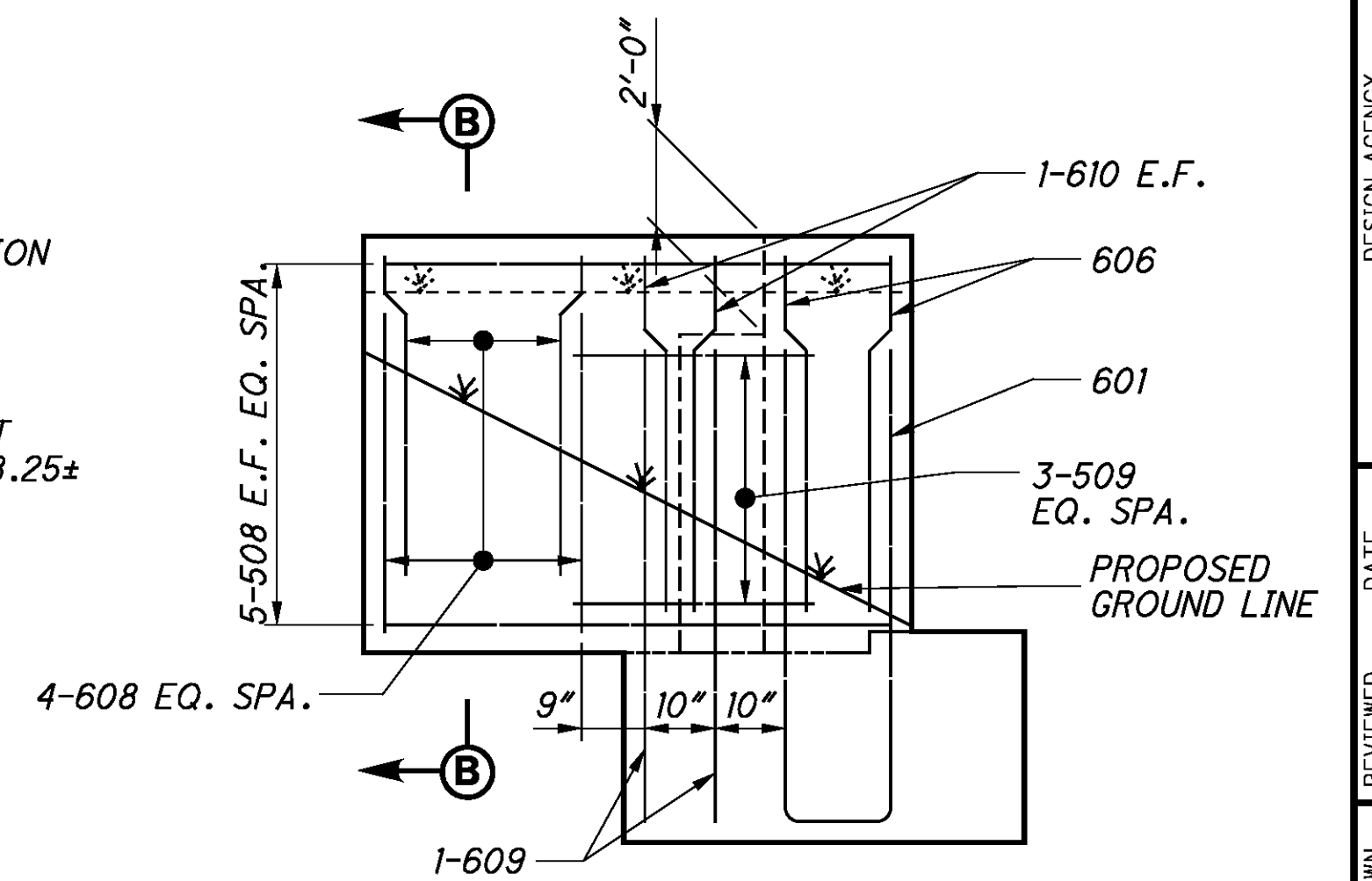
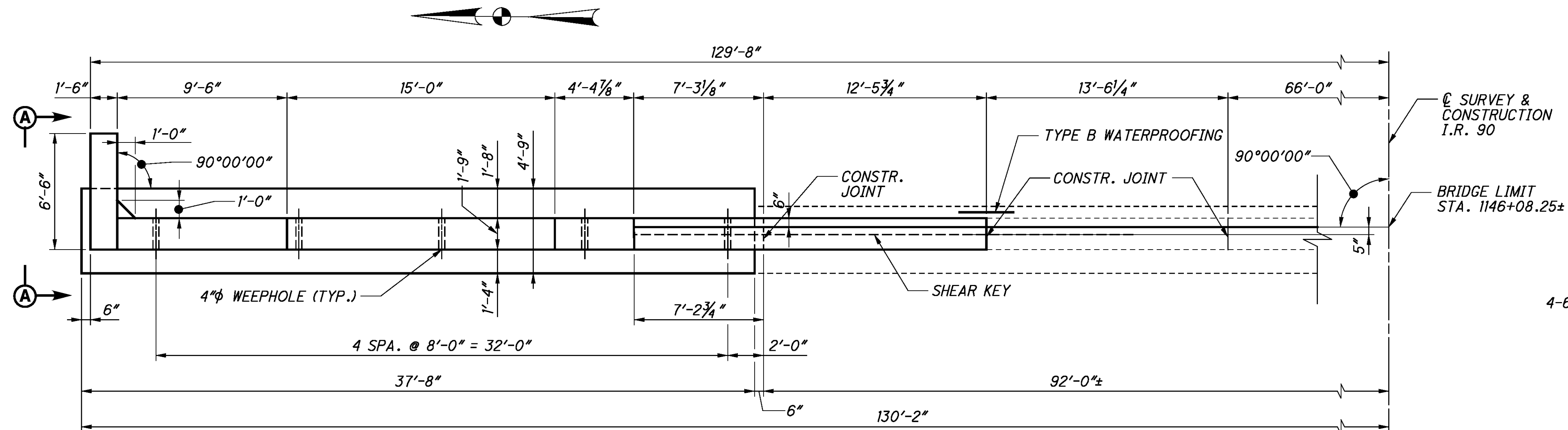
10 / 21

485
609

DESIGN AGENCY
TranSystems
55 PUBLIC SQUARE, SUITE 1800
CLEVELAND, OHIO 44113

DESIGNED	DWC	CHECKED	ECM
DRAWN	DWC	REVIEWED	RER
DATE	4/7/10	FILE NUMBER	4705130 & 4705165

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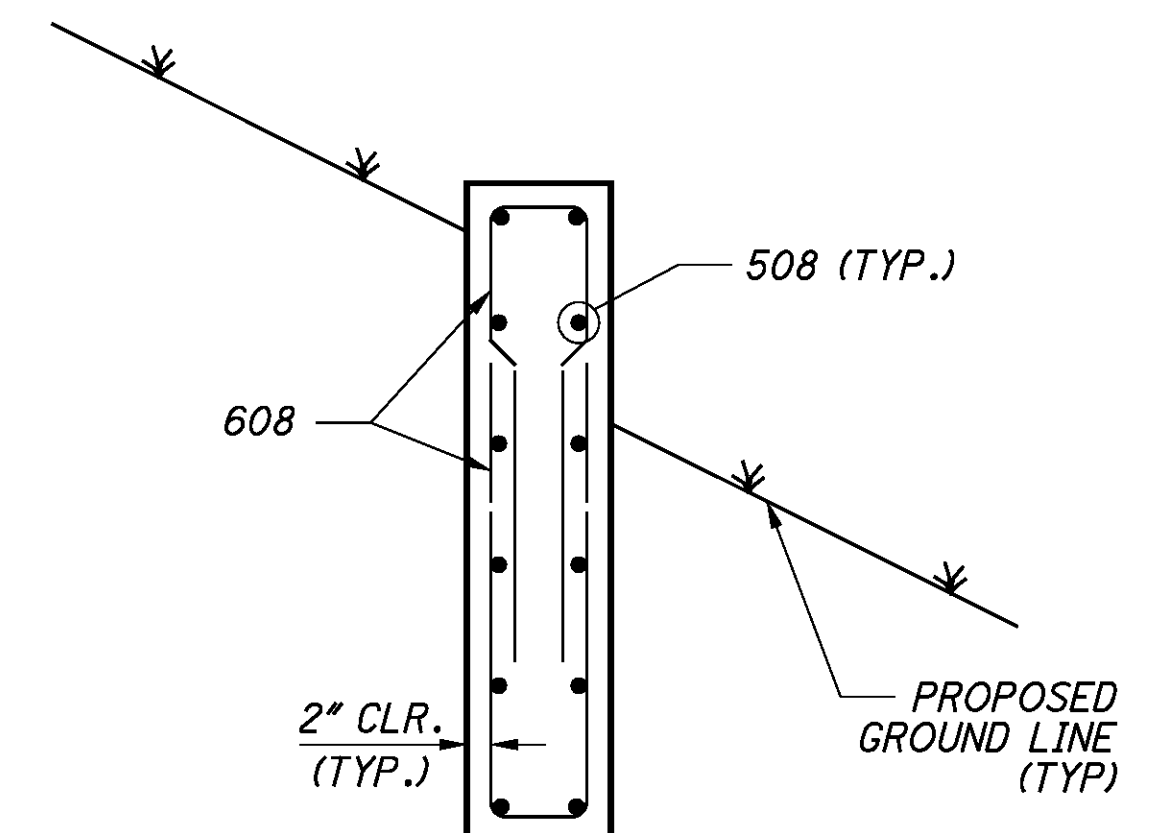
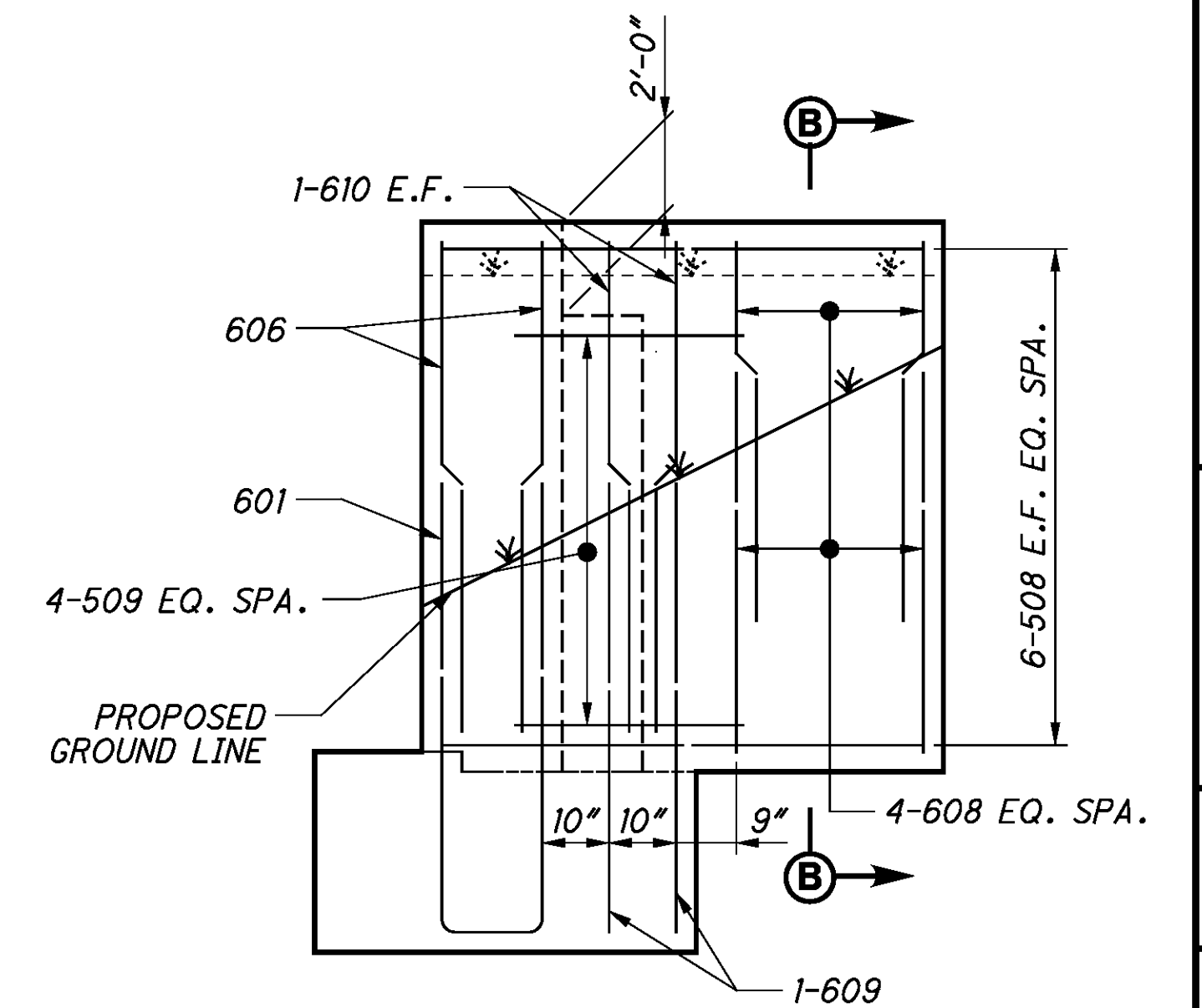
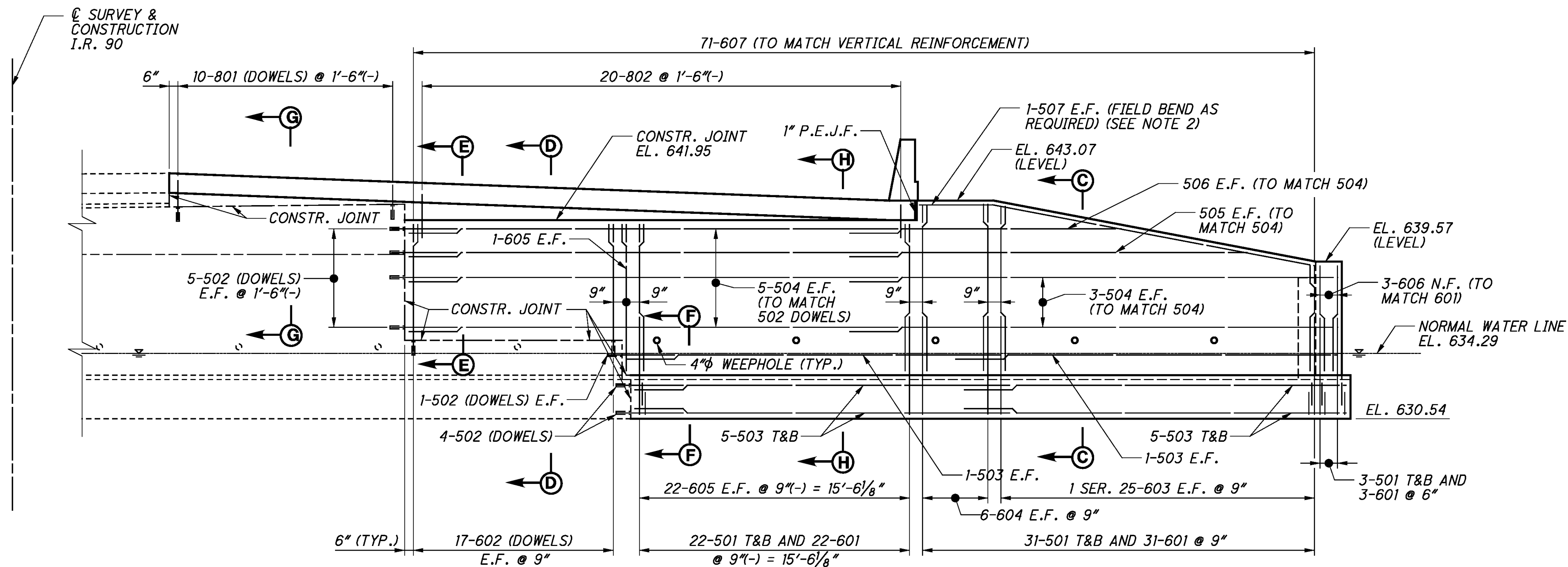
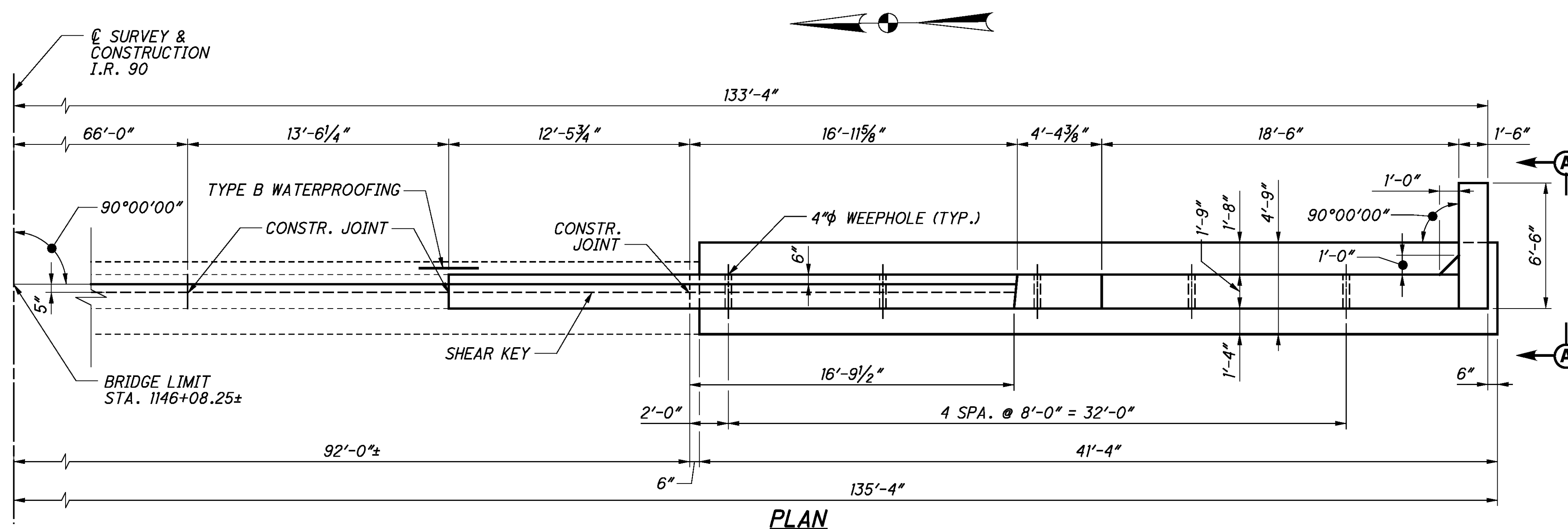


NOTES:

- FOR SECTIONS C-C AND D-D, E-E, F-F, G-G AND H-H AND LAP LENGTH TABLE, SEE SHEET 13/21.
- FIELD BENDING OF BARS SHALL BE CONSIDERED INCIDENTAL TO ITEM 509 - EPOXY REINFORCING STEEL.
- ALL BARS FOR THE NORTHEAST ABUTMENT EXTENSION SHALL HAVE THE PREFIX "D".
- ALL PROPOSED WEEPHOLES SHALL BE SET 6" ABOVE NORMAL WATER LINE.
- PLACE TYPE B WATERPROOFING 3' WIDE CENTERED ON VERTICAL AND HORIZONTAL JOINTS FROM THE BOTTOM OF THE FOOTING TO THE SEAT ELEVATION. INCLUDE THE COST IN ITEM 898 - QC/QA CONCRETE, CLASS QSCI, SUBSTRUCTURE, AS PER PLAN.

DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

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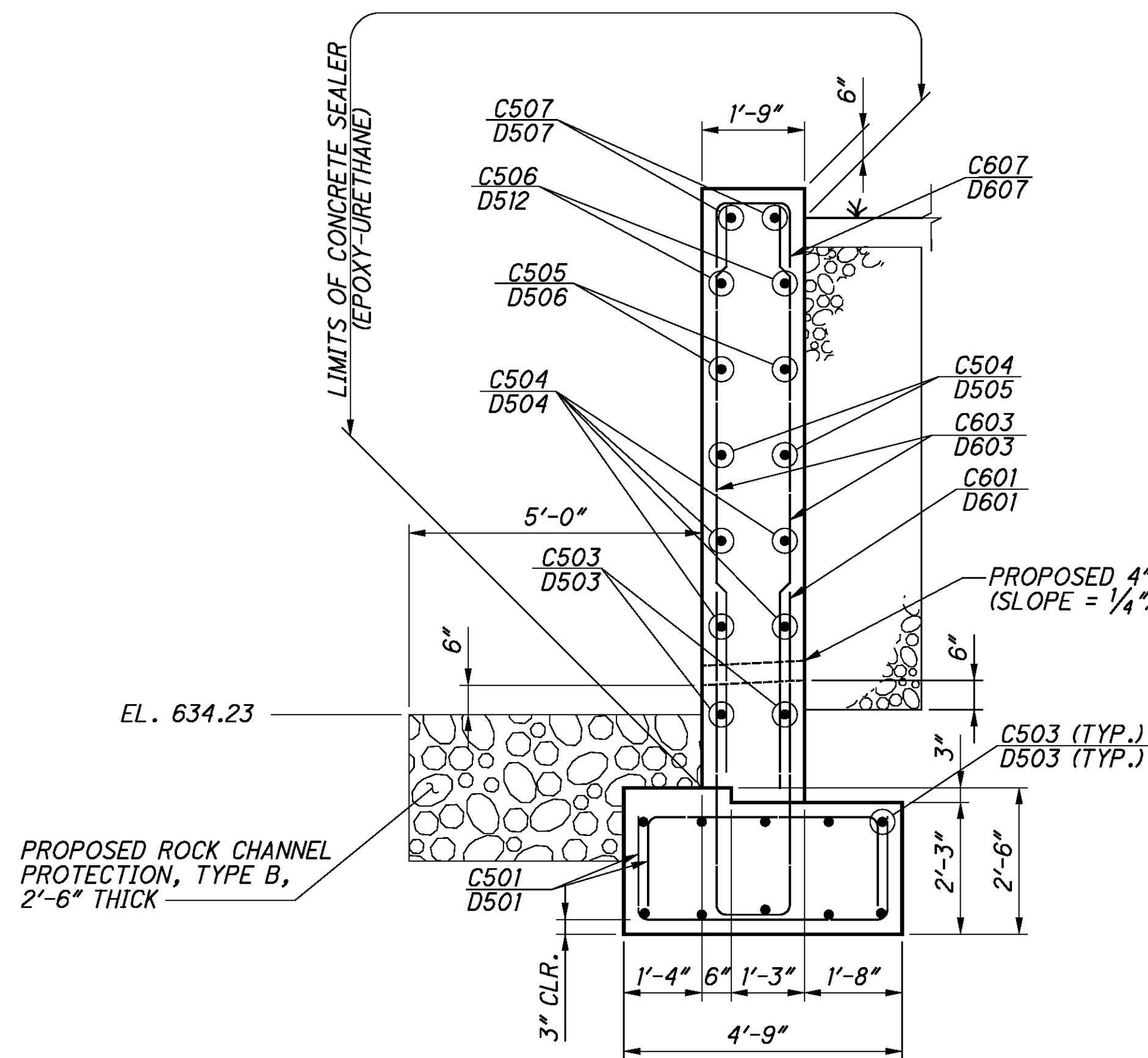


NOTES:

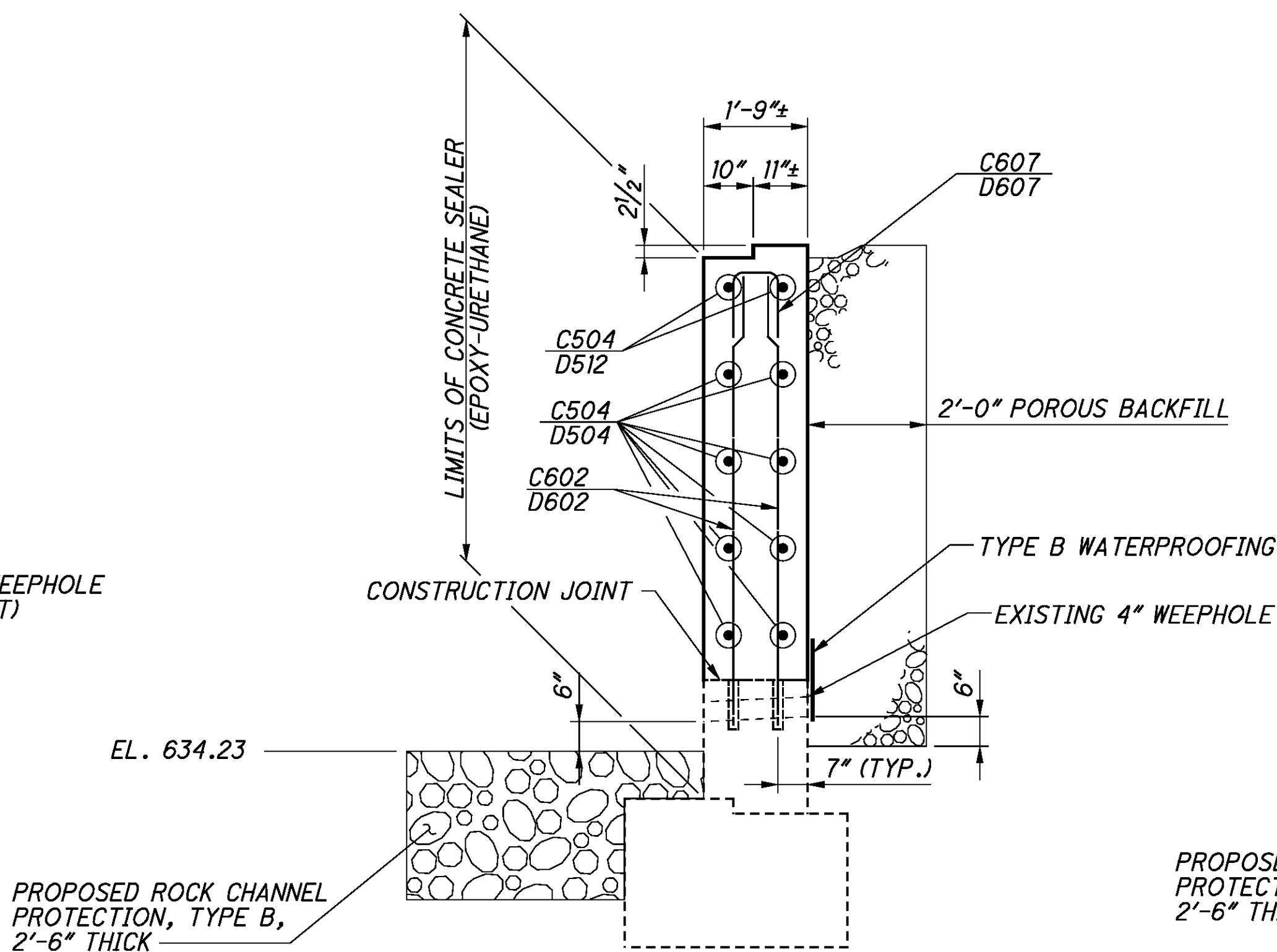
1. FOR SECTIONS C-C, D-D, E-E, F-F, G-G AND H-H, SEE SHEET 13/21.
2. FIELD BENDING OF BARS SHALL BE CONSIDERED INCIDENTAL TO ITEM 509 - EPOXY REINFORCING STEEL.
3. ALL BARS FOR THE SOUTHEAST ABUTMENT EXTENSION SHALL HAVE THE PREFIX "C".
4. ALL PROPOSED WEEPHOLES SHALL BE SET 6" ABOVE NORMAL WATER LINE.
5. PLACE TYPE B WATERPROOFING 3' WIDE CENTERED ON VERTICAL AND HORIZONTAL JOINTS FROM THE BOTTOM OF THE FOOTING TO THE SEAT ELEVATION. INCLUDE THE COST IN ITEM 898 - QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE, AS PER PLAN.

DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

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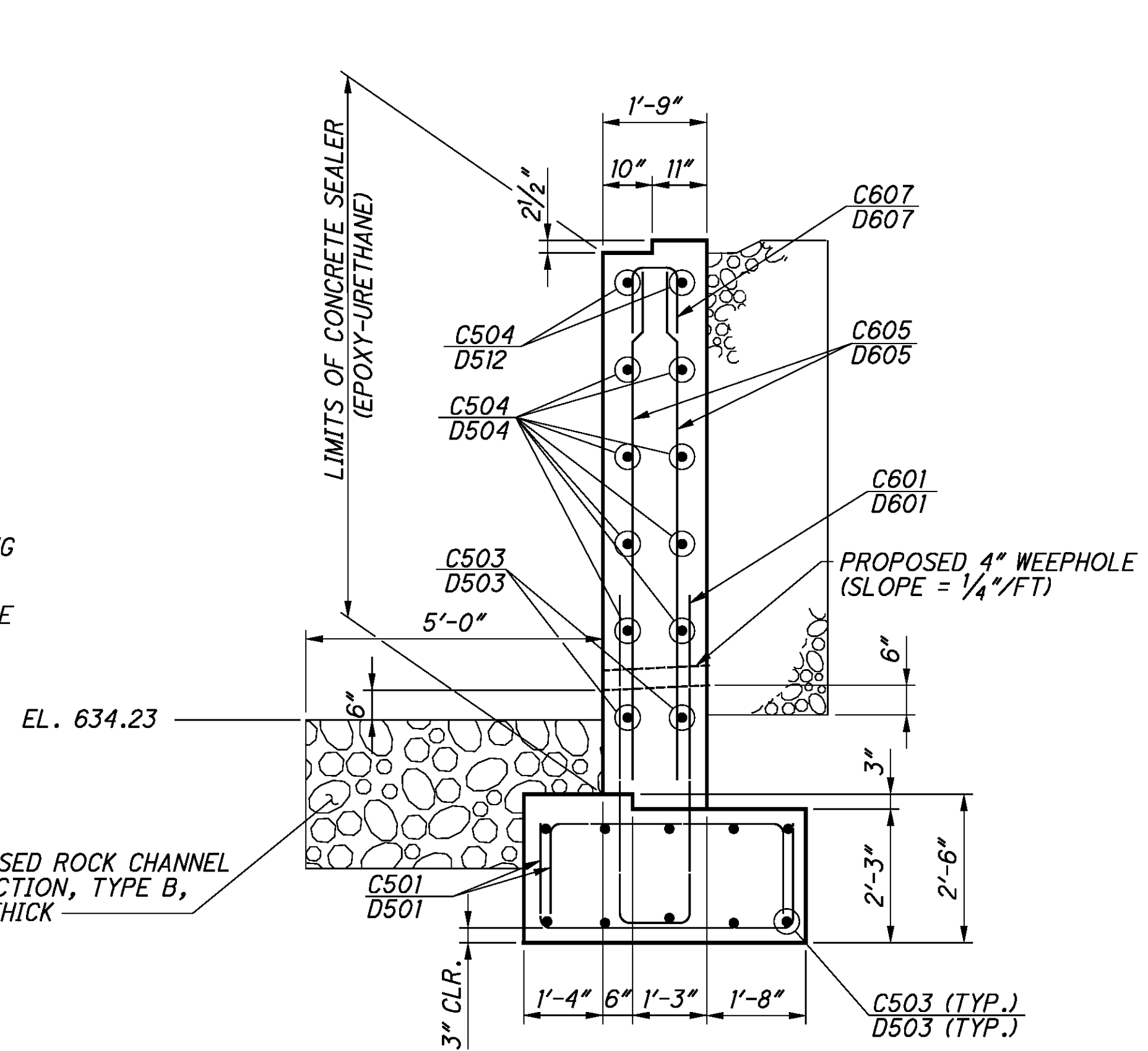


SECTION C-C



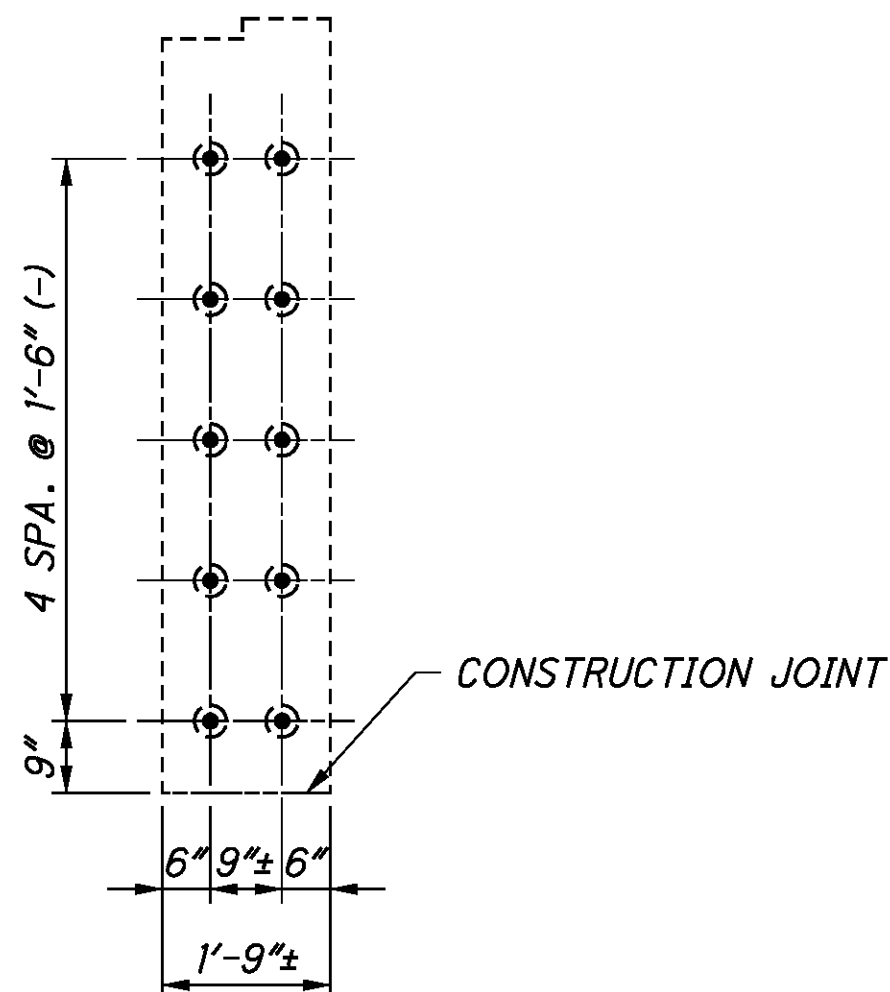
SECTION D-D

(DECK AND APPROACH SLAB NOT SHOWN FOR CLARITY)
(802 BARS INTO ABUTMENT NOT SHOWN FOR CLARITY)

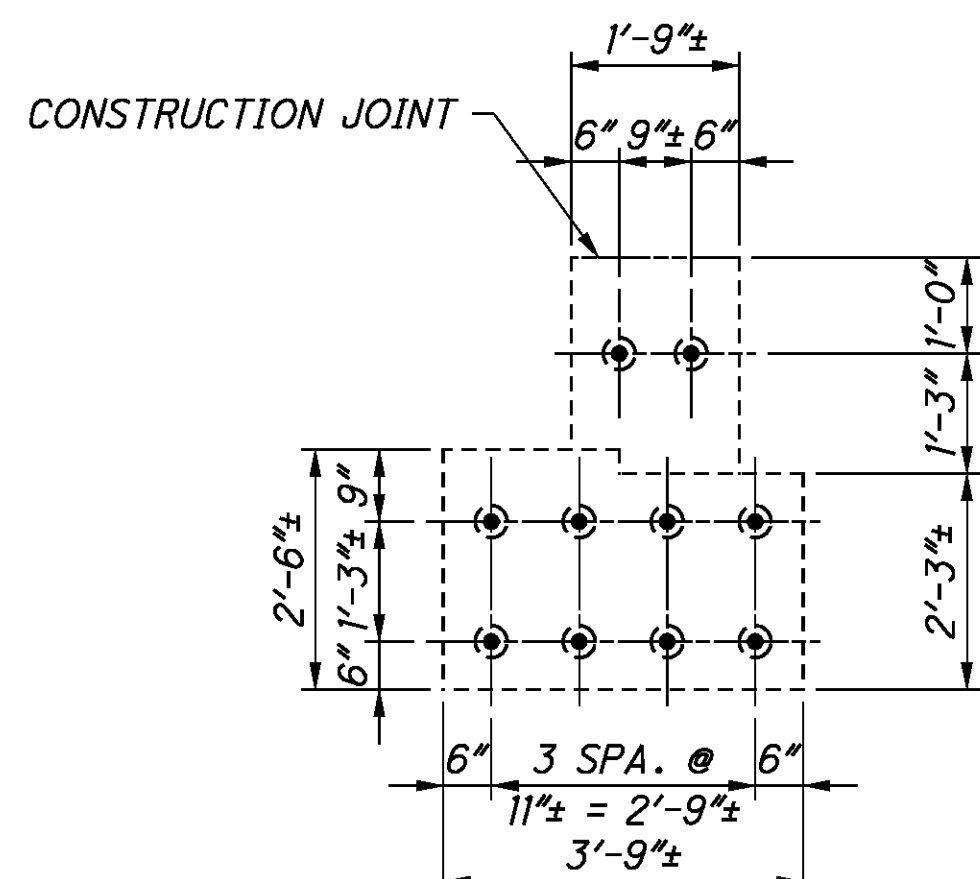


SECTION H-H

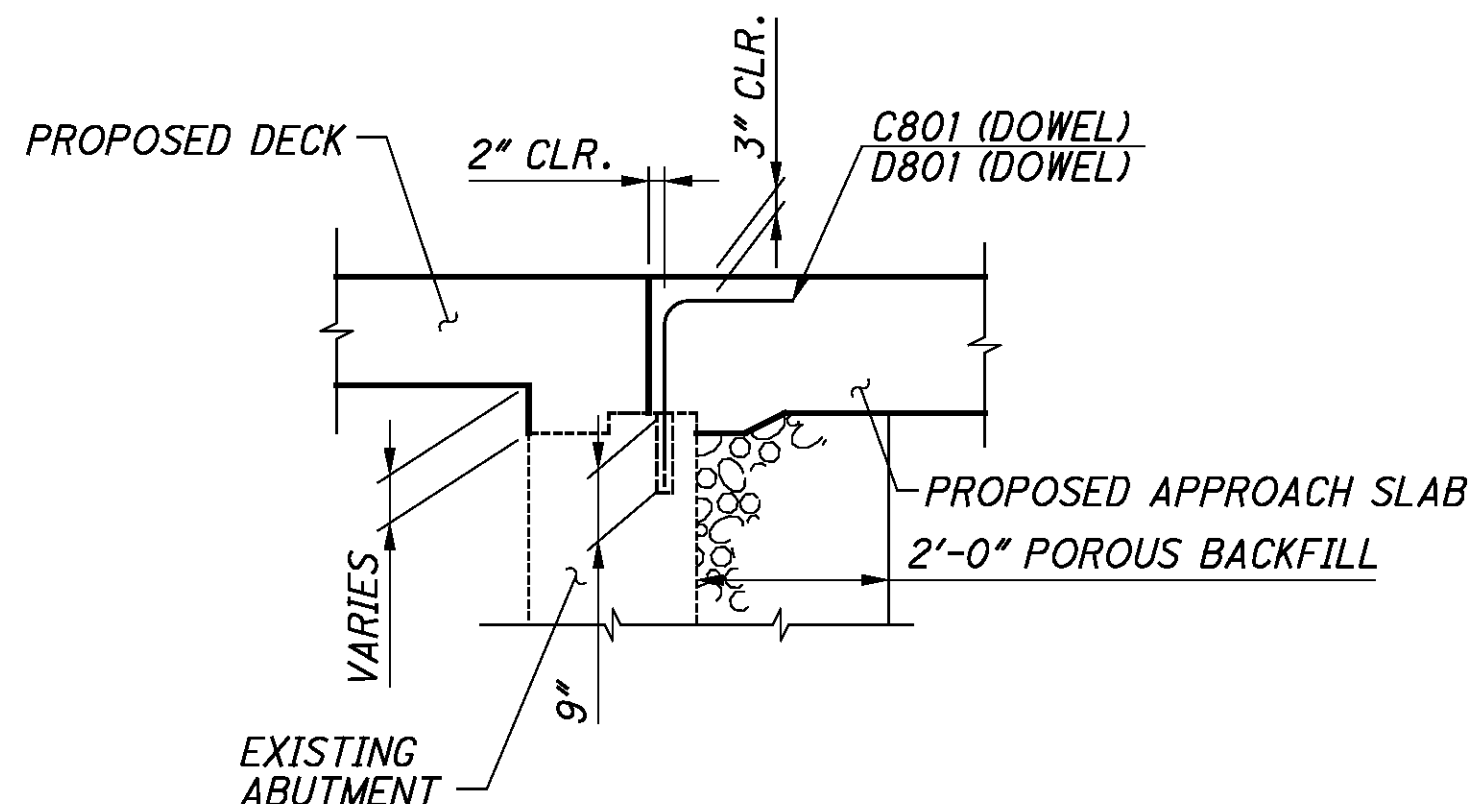
(DECK AND APPROACH SLAB NOT SHOWN FOR CLARITY)
(802 BARS INTO ABUTMENT NOT SHOWN FOR CLARITY)



VIEW E-E (DOWEL PLACEMENT)
(SOUTHEAST SHOWN, NORTHEAST SIMILAR)



VIEW F-F (DOWEL PLACEMENT)
(SOUTHEAST SHOWN, NORTHEAST SIMILAR)



SECTION G-G

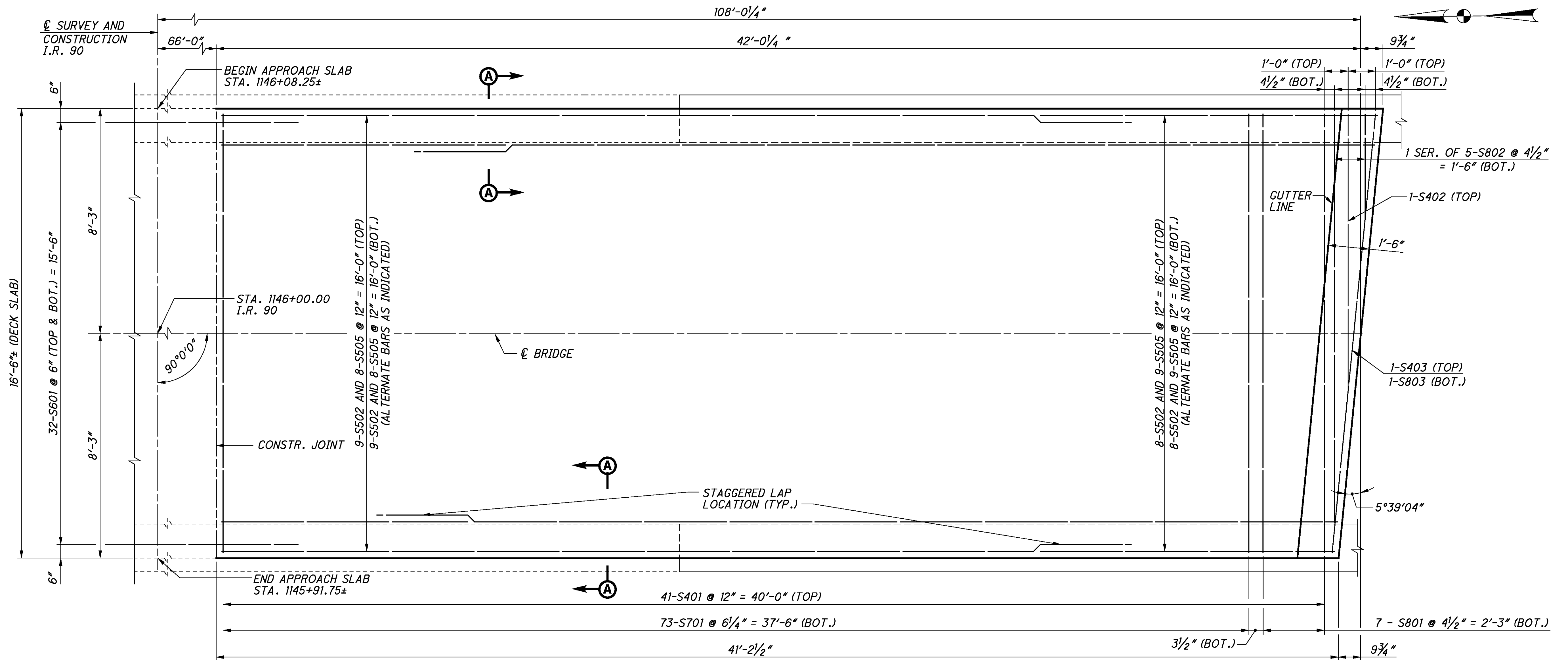
DOWEL HOLE LENGTH TABLE	
NO. 5 BAR	6"
NO. 6 BAR	7"
NO. 8 BAR	9"

LAP LENGTH TABLE	
BAR	REQUIRED LAP LENGTH
NO. 5 HORIZONTAL	2'-9" MIN.
NO. 6 VERTICAL	3'-1" MIN.

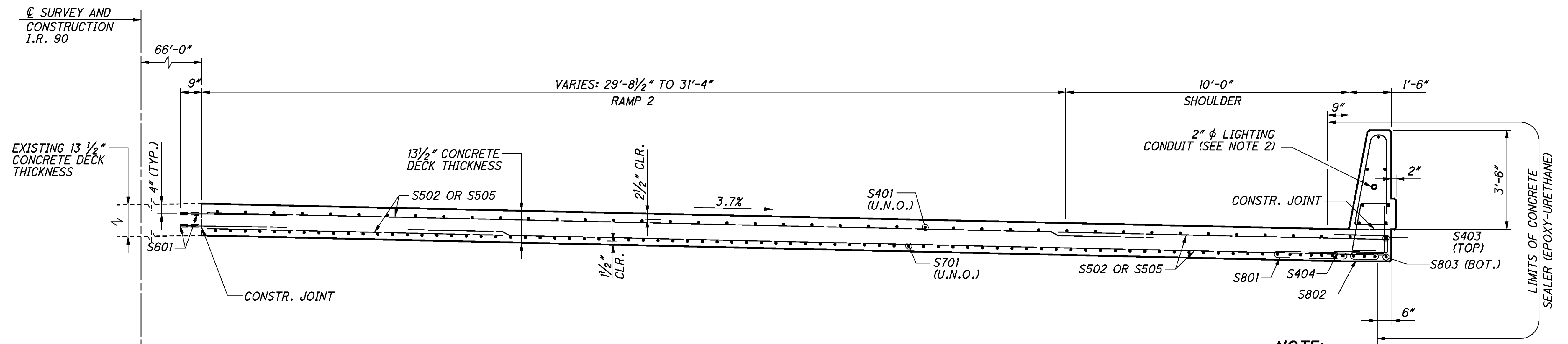
NOTES:

- FOR LOCATION OF SECTIONS C-C, D-D, E-E, F-F, G-G AND H-H, SEE SHEETS 11/21 AND 12/21.
- FOR PLACEMENT OF 802 BARS, SEE SECTION A-A, SHEET 14/21.
- ALL BARS FOR THE SOUTHEAST ABUTMENT EXTENSION SHALL BE PREFIXED "C". ALL BARS FOR THE NORTHEAST ABUTMENT EXTENSION SHALL BE PREFIXED "D".
- POROUS BACKFILL WITH FILTER FABRIC, 2'-6" THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1' BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS. PLACE TWO CUBIC FEET OF BAGGED NO. 3 AGGREGATE AT EACH WEEPHOLE. THE DEPARTMENT WILL INCLUDE BAGGED AGGREGATE WITH POROUS BACKFILL FOR PAYMENT.

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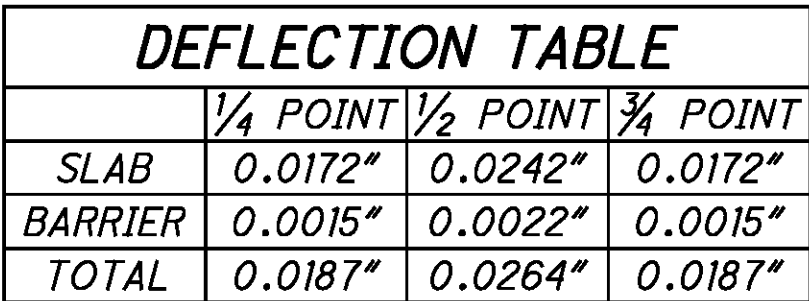
SLAB PLAN



PROPOSED EASTBOUND TRANSVERSE SECTION
(SECTION CUT AT CL BRIDGE)

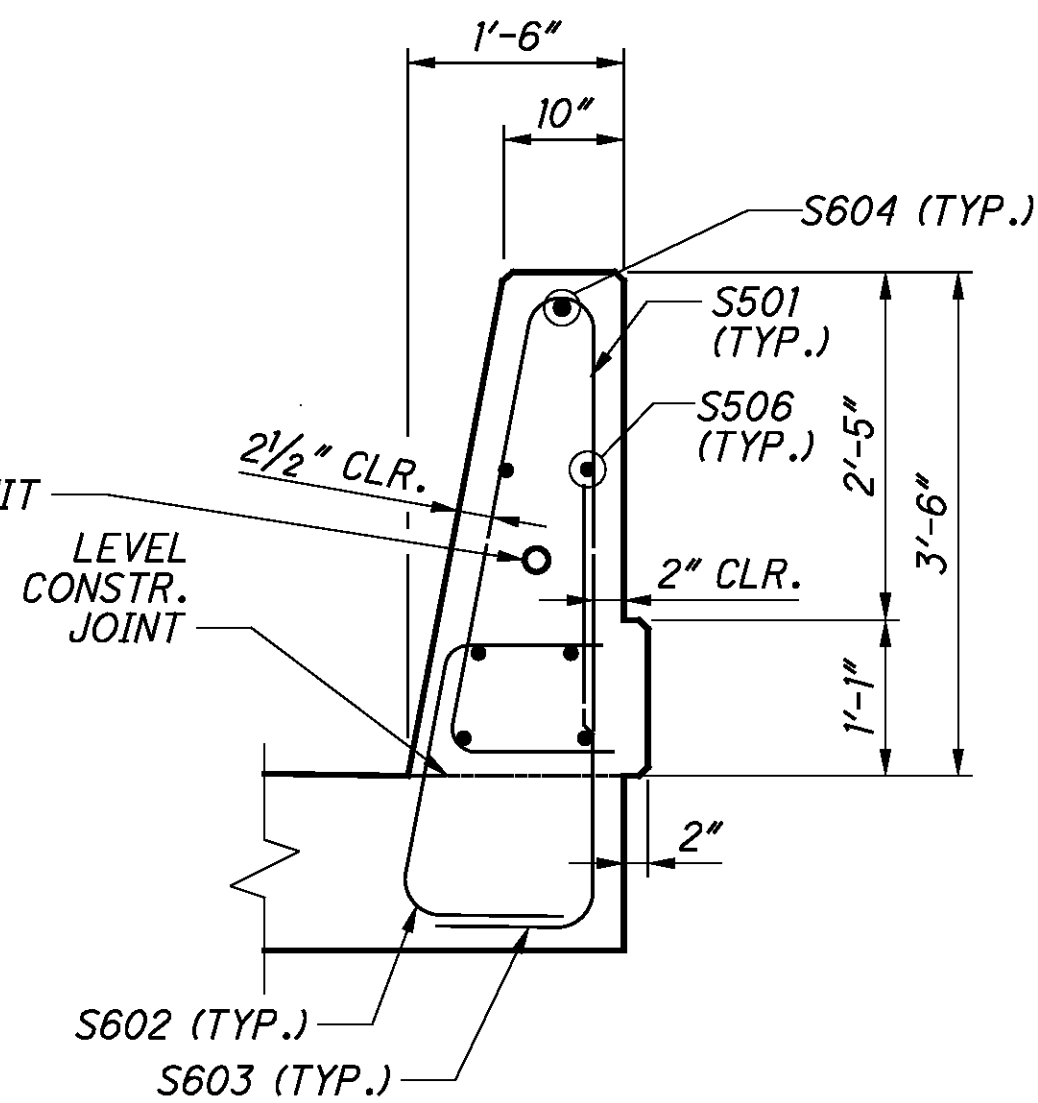
NOTE:

- FOR NOTES, SECTION A-A AND LAP TABLE, SEE SHEET 14/21.
- FOR PAYMENT AND DETAILS OF THE 2" φ LIGHTING CONDUIT, SEE LIGHTING PLAN.



FINAL DECK SURFACE ELEVATIONS

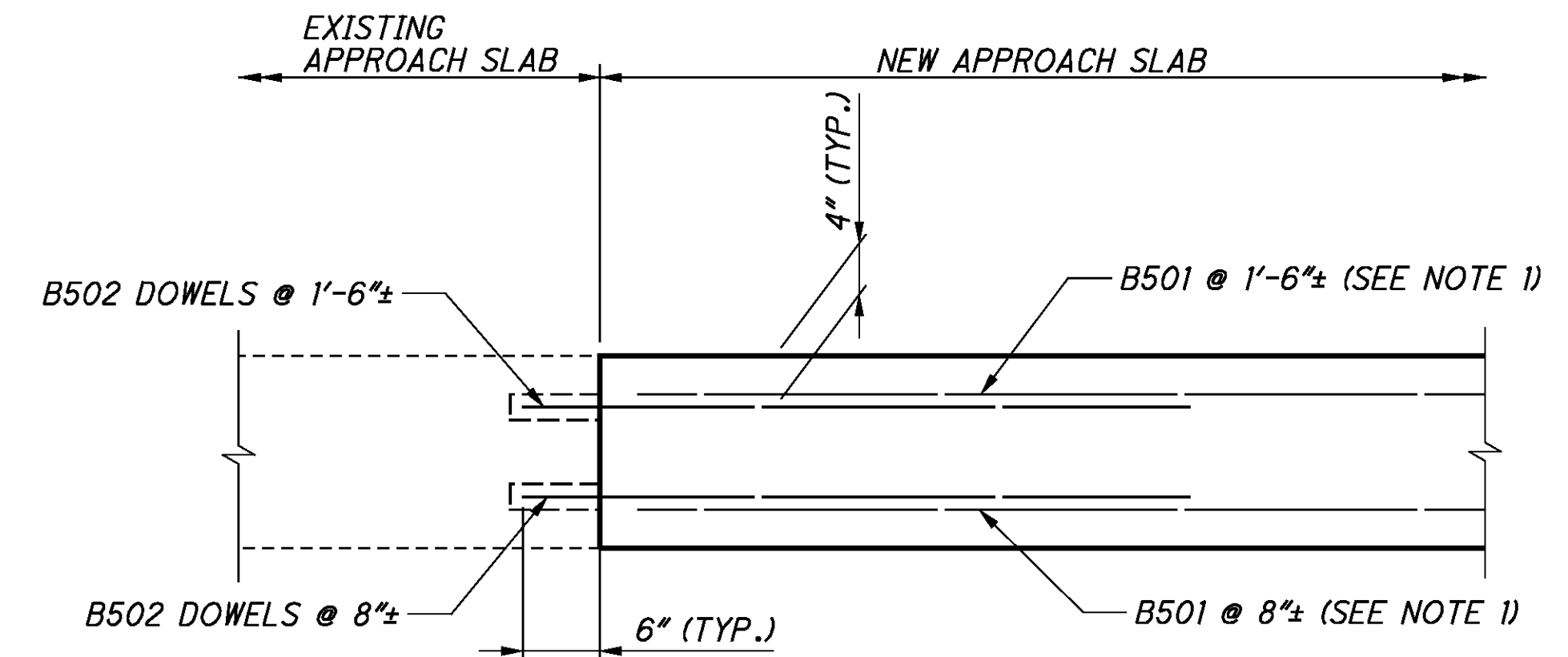
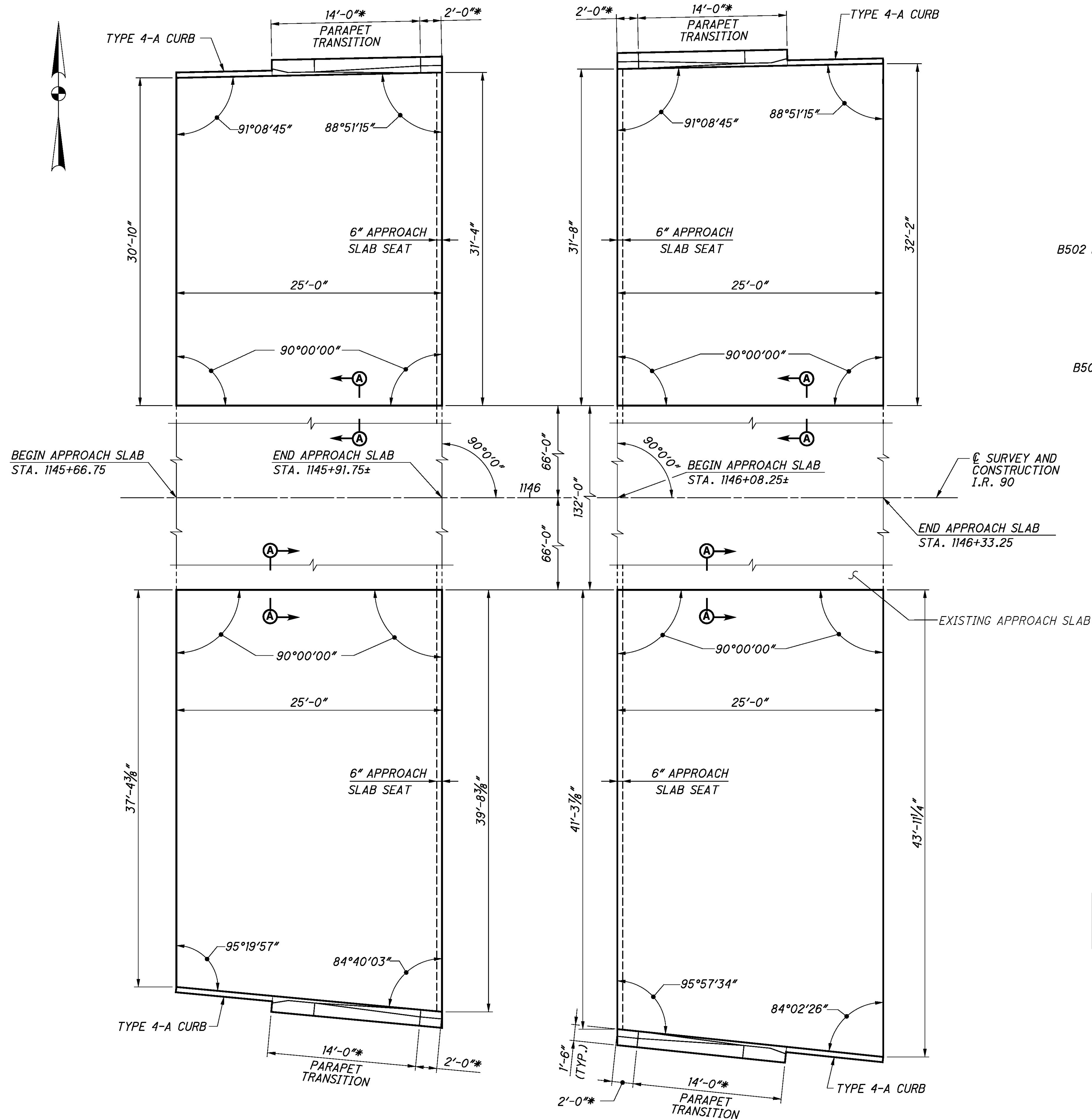
FINAL DECK SURFACE ELEVATIONS																			
LOCATION		STATION	OUTSIDE PARAPET TOE		RAMP 1		CONSTRUCTION JOINT LINE 1		CONSTRUCTION JOINT LINE 2		RAMP 2		OUTSIDE PARAPET TOE		STATION	LOCATION			
			OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.					
WESTBOUND	END APPROACH SLAB	1145+91.75	97.34'	643.43	87.33'	643.60	66.00'	644.13		66.00'	644.46	95.65'	643.58	105.70'	643.20	1145+91.75	END APPROACH SLAB	EASTBOUND	
	¼ POINT	1145+95.88	97.42'	643.41	87.42'	643.57	66.00'	644.11		66.00'	644.45	96.05'	643.55	106.10'	643.17	1145+95.88	¼ POINT		
	½ POINT	1146+00.00	97.50'	643.39	87.50'	643.55	66.00'	644.08		66.00'	644.45	96.45'	643.52	106.51'	643.14	1146+00.00	½ POINT		
	¾ POINT	1146+04.13	97.58'	643.38	87.58'	643.54	66.00'	644.05		66.00'	644.44	96.86'	643.48	106.92'	643.10	1146+04.13	¾ POINT		
	BEGIN APPROACH SLAB	1146+08.25	97.67'	643.37	87.66'	643.53	66.00'	644.02		66.00'	644.43	97.28'	643.45	107.33'	643.07	1146+08.25	BEGIN APPROACH SLAB		



PARAPET ELEVATION
(LOOKING NORTH, NORTH PARAPET SHOWN,
SOUTH PARAPET SIMILAR)

1. FOR ADDITIONAL BARRIER
DETAILS, SEE ODOT STANDARD
DRAWING SBR-1-99.

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LAP LENGTH TABLE	
BAR	REQUIRED LAP LENGTH
#5	3'-7" MIN.

NOTES:

1. APPROACH SLAB MUST BE BUILT ACCORDING TO PLAN LIMITS. FOR ADDITIONAL APPROACH SLAB DETAILS SEE ODOT STANDARD DRAWING AS-1-81.
2. FOR OUTSIDE DEFLECTOR PARAPET DETAILS, SEE SHEET 18 | 21.
3. SEE GENERAL NOTES ITEM 898-REINFORCED CONCRETE APPROACH SLAB (T-15"), AS PER PLAN ON SHEET 2 | 21 FOR OTHER ITEMS THAT ARE INCIDENTAL TO ITEM 898.

* - MEASURED ALONG GUTTER LINE

[illegible]

1. THE PREFIX FOR THE APPROACH SLAB PARAPET REINFORCING PARAPET SHALL BE NAS FOR THE NORTH BRIDGE AND SAS FOR THE SOUTH BRIDGE.
2. QUANTITY OF SEALING OF CONCRETE SURFACES ON OUTSIDE DEFLECTOR PARAPETS IS INCLUDED WITH SUPERSTRUCTURE SEALING QUANTITIES, ITEM 512. FOR SEALING OF CONCRETE SURFACES NOTE, SEE STRUCTURAL GENERAL NOTES SHEET 2 / 21.
3. FOR PARAPET CONTROL JOINT SAWCUTTING AND CAULKING REQUIREMENTS, SEE ITEM 898, REINFORCED CONCRETE APPROACH SLAB (T=15"), AS PER PLAN, STRUCTURAL GENERAL NOTES SHEET 2 / 21.
4. FOR APPROACH SLAB PLAN, SEE SHEET 17 / 21.
5. BRIDGE TERMINAL ASSEMBLY SHALL BE TYPE 1 OR TYPE 2. FOR BRIDGE TERMINAL ASSEMBLY LOCATIONS, SEE SITE PLAN. FOR BRIDGE TERMINAL ASSEMBLY DETAILS AND BOLT LOCATION, SEE ODOT STANDARD DRAWING GR-3.1 AND GR-3.2.
6. GROOVE AND SEAL JOINT BETWEEN BARRIERS WITH 705.04, AS SHOWN ON STD. DWG. BP-2.1. INCLUDE PAYMENT WITH ITEM 898, REINFORCED CONCRETE APPROACH SLAB (T=15"), AS PER PLAN.
7. ALL REBAR FOR APPROACH SLAB PARAPET IS TO BE INCLUDED WITH ITEM 898 FOR PAYMENT. THE WEIGHTS PROVIDED ARE TO BE USED FOR INFORMATION PURPOSES ONLY.
8. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, NAS501 SI A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL TO BE EPOXY COATED.

BAR BENDING DIAGRAMS

TYPE-1

TYPE-23

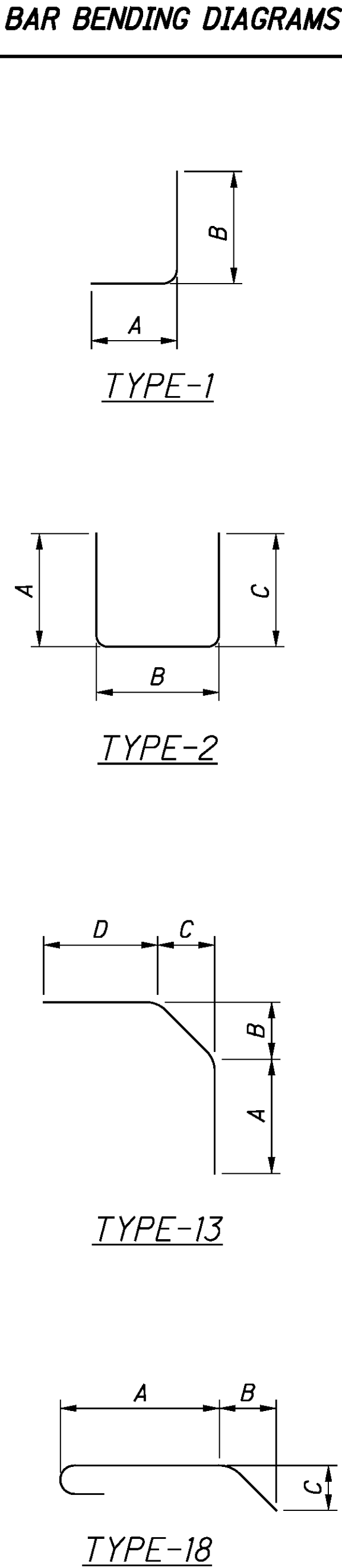
TYPE-25

TYPE-29

**FIELD BEND BARS
WHERE NECESSARY**

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
REAR ABUTMENT (LEFT BRIDGE)											
B501	104	8'-0"	868	2	2'-0"	4'-3"	2'-0"				
B502	20	3'-6"	73	STR							
B503	12	38'-4"	480	STR							
B504	12	27'-1"	339	STR							
B505	2	22'-4"	47	STR							
B506	2	16'-4"	34	STR							
B507	2	26'-7"	55	STR							
B508	10	6'-2"	64	STR							
B509	3	3'-0"	9	13	0'-10"	1'-0"	1'-0"	0'-10"			
B510	2	7'-2"	15	STR							
B511	2	31'-4"	65	STR							
B601	52	12'-3"	957	2	5'-7"	1'-5"	5'-7"				
B602	34	8'-0"	409	STR							
	2 SR	6'-10"									
B603	OF	TO	657	STR							0'-1 1/2"
	26	10'-0"									
B604	12	10'-0"	180	STR							
B605	20	9'-0"	270	STR							
B606	3	4'-9"	21	STR							
B607	67	7'-9"	780	2	3'-4"	1'-5"	3'-4"				
B608	8	9'-0"	108	2	4'-1"	1'-2"	4'-1"				
B609	2	12'-6"	38	2	5'-10"	1'-2"	5'-10"				
B610	4	4'-9"	29	STR							
	2 SR	4'-8"									
B611	OF	TO	136	STR							0'-3 1/2"
	8	6'-8"									
B801	10	3'-1"	80	1	1'-11"	1'-4"					
B802	13	3'-6"	121	18	1'-5"	1'-0"	0'-10"				
TOTAL REAR ABUTMENT LEFT			5835								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
REAR ABUTMENT (RIGHT BRIDGE)											
A501	102	8'-0"	851	2	2'-0"	4'-3"	2'-0"				
A502	20	3'-6"	73	STR							
A503	12	37'-8"	471	STR							
A504	16	27'-0"	451	STR							
A505	2	22'-2"	46	STR							
A506	2	14'-3"	30	STR							
A507	2	21'-6"	45	STR							
A508	12	6'-2"	77	STR							
A509	4	3'-0"	13	13	0'-10"	1'-0"	1'-0"	0'-10"			
A601	51	12'-3"	938	2	5'-7"	1'-5"	5'-7"				
A602	34	7'-6"	383	STR							
	2 SR	6'-8"									
A603	OF	TO	529	STR							0'-1 1/2"
	22	9'-4"									
A604	12	9'-10"	177	STR							
A605	42	8'-8"	547	STR							
A606	3	6'-8"	30	STR							
A607	66	7'-9"	768	2	3'-4"	1'-5"	3'-4"				
A608	8	10'-10"	130	2	5'-0"	1'-2"	5'-0"				
A609	2	12'-6"	38	2	5'-10"	1'-2"	5'-10"				
A610	4	6'-8"	40	STR							
A801	10	3'-1"	80	1	1'-11"	1'-4"					
A802	19	3'-6"	178	18	1'-5"	1'-0"	0'-10"				
TOTAL REAR ABUTMENT RIGHT			5895								



NOTES:

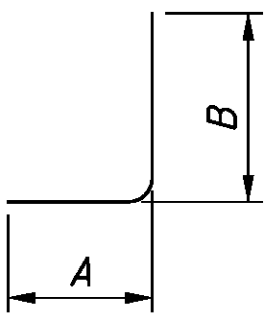
- THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 BAR:
A: LOCATION OF THE BAR IN THE STRUCTURE (REAR ABUTMENT)
5: BAR SIZE DESIGNATION NO. 5
01: SEQUENCE NUMBER
- BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. R INDICATES RADIUS, UNLESS OTHERWISE NOTED. STRAIGHT BARS ARE INDICATED BY "STR".
- ALL REINFORCING STEEL TO BE EPOXY COATED.

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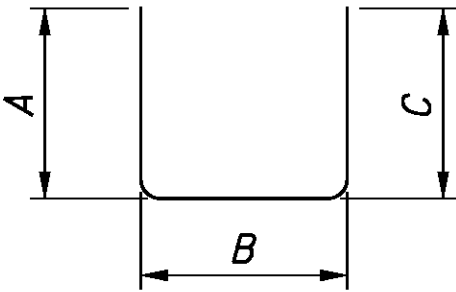
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
FORWARD ABUTMENT (LEFT BRIDGE)											
D501	102	8'-0"	851	2	2'-0"	4'-3"	2'-0"				
D502	20	3'-6"	73	STR							
D503	12	37'-2"	465	STR							
D504	12	26'-6"	332	STR							
D505	2	20'-9"	43	STR							
D506	2	16'-2"	34	STR							
D507	2	25'-2"	52	STR							
D508	10	6'-2"	64	STR							
D509	3	3'-0"	9	13	0'-10"	1'-0"	1'-0"	0'-10"			
D510	2	7'-2"	15	STR							
D511	2	32'-5"	68	STR							
D601	51	12'-0"	919	2	5'-7"	1'-2"	5'-7"				
D602	34	7'-6"	383	STR							
	2 SR	7'-6"									
D603	OF	TO	521	STR							0'-1 1/2"
	20	9'-10"									
D604	12	9'-11"	179	STR							
D605	12	8'-11"	161	STR							
D606	3	4'-4"	20	STR							
D607	66	7'-6"	743	2	3'-4"	1'-2"	3'-4"				
D608	8	8'-6"	102	2	3'-10"	1'-2"	3'-10"				
D609	2	12'-6"	38	2	5'-10"	1'-2"	5'-10"				
D610	4	4'-4"	26	STR							
	2 SR	4'-4"									
D611	OF	TO	228	STR							0'-3"
	13	7'-4"									
D801	10	3'-1"	80	1	1'-11"	1'-4"					
D802	13	3'-6"	121	18	1'-5"	1'-0"	0'-10"				
TOTAL FORWARD ABUTMENT LEFT			5527								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
FORWARD ABUTMENT (RIGHT BRIDGE)											
C501	112	8'-0"	935	2	2'-0"	4'-3"	2'-0"				
C502	20	3'-9"	78	STR							
C503	24	22'-1"	553	STR							
C504	16	28'-4"	473	STR							
C505	2	22'-5"	47	STR							
C506	2	15'-3"	32	STR							
C507	2	23'-3"	48	STR							
C508	12	6'-2"	77	STR							
C509	4	3'-0"	13	13	0'-10"	1'-0"	1'-0"	0'-10"			
C601	56	12'-3"	1030	2	5'-7"	1'-5"	5'-7"				
C602	34	6'-7"	336	STR							
	2 SR	6'-3"									
C603	OF	TO	582	STR							0'-1 1/2"
	25	9'-3"									
C604	12	9'-8"	174	STR							
C605	46	8'-7"	593	STR							
C606	3	6'-2"	28	STR							
	71	7'-9"	826	2	3'-4"	1'-5"	3'-4"				
C608	8	10'-4"	124	2	4'-9"	1'-2"	4'-9"				
C609	2	12'-6"	38	2	5'-10"	1'-2"	5'-10"				
C610	4	6'-2"	37	STR							
C801	10	3'-1"	80	1	1'-11"	1'-4"					
C802	20	3'-6"	187	18	1'-5"	1'-0"	0'-10"				
TOTAL FORWARD ABUTMENT RIGHT			6291								

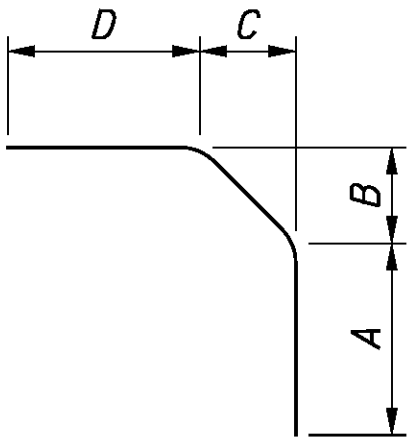
BAR BENDING DIAGRAMS



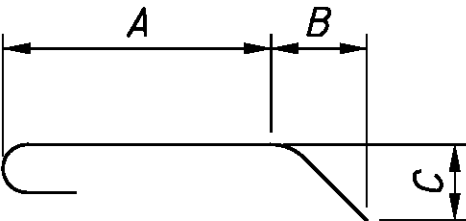
TYPE-1



TYPE-2



TYPE-13



TYPE-18

NOTES:

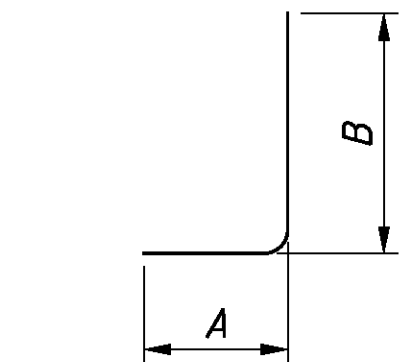
1. SEE NOTES ON SHEET 19/21.

G:\CO06\0040\Bridge\LOR090_2200C\sheets\090_2200CrI001.dgn 3/14/2011 8:21:27 AM kbjohnson

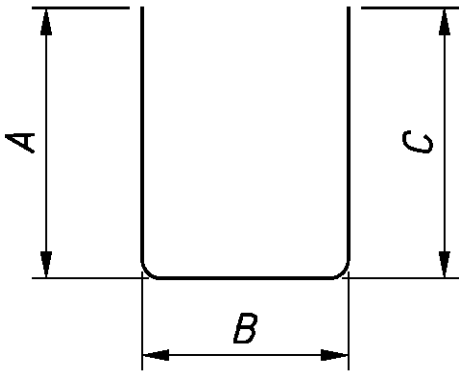
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
SUPERSTRUCTURE (LEFT BRIDGE)											
S401	34	16'-0"	364	STR							
S402	(THIS BAR	MARK NOT	USED)								
S403	(THIS BAR	MARK NOT	USED)								
S404	17	4'-4"	49	2	2'-0"	0'-7"	2'-0"				
S501	21	7'-3"	159	23	1'-1"	3'-1"	3'-0"			0'-2 ¼"	
S502	(THIS BAR	MARK NOT	USED)								
S503	34	25'-0"	887	STR							
S504	34	11'-7"	411	STR							
S505	(THIS BAR	MARK NOT	USED)								
S506	6	16'-0"	100	STR							
S601	64	4'-6"	432.5	STR							
S602	21	3'-7"	113	28	1'-9"	1'-1"					
S603	21	2'-7"	81.5	1	1'-1"	1'-8"					
S604	1	16'-0"	24	STR							
S701	58	16'-0"	1897	STR							
S801	8	16'-0"	342	STR							
S802	(THIS BAR	MARK NOT	USED)								
S803	(THIS BAR	MARK NOT	USED)								
TOTAL (LEFT BRIDGE)			4884								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
SUPERSTRUCTURE (RIGHT BRIDGE)											
S401	41	16'-0"	438	STR							
S402	1	9'-11"	7	STR							
S403	1	16'-1"	11	STR							
S404	17	4'-4"	49	2	2'-0"	0'-7"	2'-0"				
S501	21	7'-3"	159	23	1'-1"	3'-1"	3'-0"			0'-2 ¼"	
S502	34	30'-0"	1064	STR							
S503	(THIS BAR	MARK NOT	USED)								
S504	(THIS BAR	MARK NOT	USED)								
S505	34	16'-5"	582	STR							
S506	6	16'-0"	100	STR							
S601	64	4'-6"	432.5	STR							
S602	21	3'-7"	113	28	1'-9"	1'-1"					
S603	21	2'-7"	81.5	1	1'-1"	1'-8"					
S604	1	16'-0"	24	STR							
S701	73	16'-0"	2387	STR							
S801	7	16'-0"	299	STR							
		6'-8"									
S802	1	TO	151	STR							2'-4"
		16'-0"									
S803	1	16'-1"	43	STR							
TOTAL (RIGHT BRIDGE)			5965								

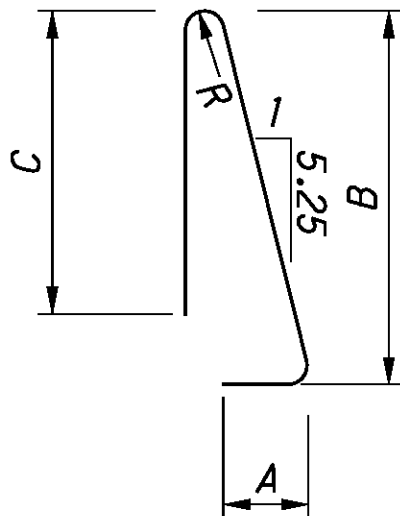
BAR BENDING DIAGRAMs



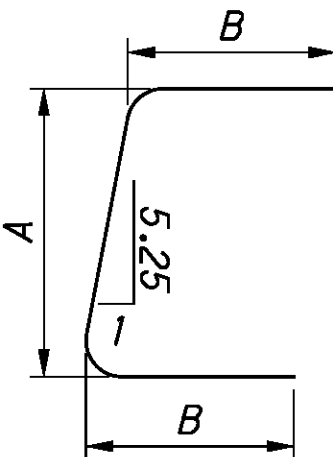
TYPE-1



TYPE-2



TYPE-23



TYPE 28

NOTES:
1. SEE NOTES ON SHEET 19 | 21 .