INDEX TO PROJECT

ALABAMA

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER

INFRA-I010(353)

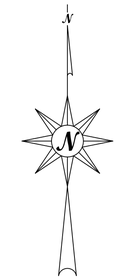
MOBILE RIVER BRIDGE

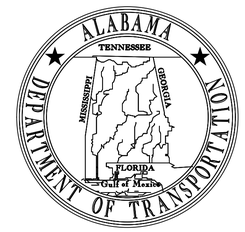
60% SUPERSTRUCTURE DESIGN

MAIN SPAN - BRIDGE 40

MOBILE COUNTY

STATE	REFERENCE PROJECT NO	FISCAL YEAR
AL	INFRA-I010(353)	2025
CONTRACT ID NO		





ALABAMA DEPARTMENT OF TRANSPORTATION
Submitted for Approval:
STATE DESIGN ENGINEER
CHIEF ENGINEER
Approved:
TRANSPORTATION DIRECTOR

KIEWIT
MASSMAN
TRAYLOR
A JOINT VENTURE

Kiewit

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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INDEX OF SHEETS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S00-GN-10002

* INCLUDED IN THIS PACKAGE

*	REV	DATE	SHEET NO	DESCRIPTION
*	A	04/04/2025	S04-BR-01011	MAIN SPAN BRIDGE - TITLE SHEET
*	A	04/04/2025	S04-BR-01012	MAIN SPAN BRIDGE - INDEX OF SHEETS 1
*	A	04/04/2025	S04-BR-40021	MAIN SPAN BRIDGE - GENERAL NOTES 1
*	A	04/04/2025	S04-BR-40022	MAIN SPAN BRIDGE - GENERAL NOTES 2
*	A	04/04/2025	S04-BR-40023	MAIN SPAN BRIDGE - GENERAL NOTES 3
*	A	04/04/2025	S04-BR-40101	MAIN SPAN BRIDGE - GENERAL PLAN & ELEVATION
*	A	04/04/2025	S04-BR-40105	MAIN SPAN BRIDGE - TYPICAL TRANSVERSE SECTIONS
*	A	04/04/2025	S04-BR-40501	MAIN SPAN BRIDGE - STEEL FRAMING LAYOUT 1
*	A	04/04/2025	S04-BR-40502	MAIN SPAN BRIDGE - STEEL FRAMING LAYOUT 2
*	A	04/04/2025	S04-BR-40512	MAIN SPAN BRIDGE - EDGE GIRDER GEOMETRY - DETAILS 1
*	A	04/04/2025	S04-BR-40521	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 1
*	A	04/04/2025	S04-BR-40524	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 2
*	A	04/04/2025	S04-BR-40525	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 2 - DETAILS 1
*	A	04/04/2025	S04-BR-40526	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 2 - DETAILS 2
*	A	04/04/2025	S04-BR-40527	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 3
*	A	04/04/2025	S04-BR-40528	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 4
*	A	04/04/2025	S04-BR-40530	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 5
*	A	04/04/2025	S04-BR-40531	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPE 6
*	A	04/04/2025	S04-BR-40533	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE
*	A	04/04/2025	S04-BR-40536	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS 1
*	A	04/04/2025	S04-BR-40537	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS 2
*	A	04/04/2025	S04-BR-40538	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS 3
*	A	04/04/2025	S04-BR-40551	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS
*	A	04/04/2025	S04-BR-40561	MAIN SPAN BRIDGE - DECK PANEL SUPPORT BEAM - DETAILS 1
*	A	04/04/2025	S04-BR-40571	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB1
*	A	04/04/2025	S04-BR-40572	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB2
*	A	04/04/2025	S04-BR-40573	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB3
*	A	04/04/2025	S04-BR-40574	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB4
*	A	04/04/2025	S04-BR-40575	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB5
*	A	04/04/2025	S04-BR-40576	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB6
*	A	04/04/2025	S04-BR-40577	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB7
*	A	04/04/2025	S04-BR-40580	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 1
*	A	04/04/2025	S04-BR-40581	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2
*	A	04/04/2025	S04-BR-40582	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2A
*	A	04/04/2025	S04-BR-40583	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 3
*	A	04/04/2025	S04-BR-40585	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 5 & 6
*	A	04/04/2025	S04-BR-40586	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 7
*	A	04/04/2025	S04-BR-40596	MAIN SPAN BRIDGE - STAY TOP FLANGE BRACING - DETAILS 1
*	A	04/04/2025	S04-BR-40597	MAIN SPAN BRIDGE - STAY TOP FLANGE BRACING - DETAILS 2
*	A	04/04/2025	S04-BR-40611	MAIN SPAN BRIDGE - PIER P27 & P32 STUD LAYOUT
*	A	04/04/2025	S04-BR-40612	MAIN SPAN BRIDGE - PYLON P29 & P30 STUD LAYOUT
*	A	04/04/2025	S04-BR-40613	MAIN SPAN BRIDGE - CL MAIN SPAN STUD LAYOUT
*	A	04/04/2025	S04-BR-40631	MAIN SPAN BRIDGE - STAY CABLE - DESIGNATION
*	A	04/04/2025	S04-BR-40632	MAIN SPAN BRIDGE - STAY CABLE - DETAILS
*	A	04/04/2025	S04-BR-40633	MAIN SPAN BRIDGE - STAY CABLE - GEOMETRY 1
*	A	04/04/2025	S04-BR-40634	MAIN SPAN BRIDGE - STAY CABLE - GEOMETRY 2
*	A	04/04/2025	S04-BR-40635	MAIN SPAN BRIDGE - STAY CABLE - GEOMETRY 3
*	A	04/04/2025	S04-BR-40636	MAIN SPAN BRIDGE - STAY CABLE - SCHEDULE 1
*	A	04/04/2025	S04-BR-40637	MAIN SPAN BRIDGE - STAY CABLE - SCHEDULE 2
*	A	04/04/2025	S04-BR-40641	MAIN SPAN BRIDGE - DECK ANCHOR - ISOMETRIC DETAILS
*	A	04/04/2025	S04-BR-40643	MAIN SPAN BRIDGE - DECK ANCHOR - TYPICAL DECK ANCHOR DETAILS 1
*	A	04/04/2025	S04-BR-40644	MAIN SPAN BRIDGE - DECK ANCHOR - TYPICAL DECK ANCHOR DETAILS 2
*	A	04/04/2025	S04-BR-40647	MAIN SPAN BRIDGE - DECK ANCHOR - TOP & BOTT. FLANGE - MOUNTING PLATE DETAILS 1
*	A	04/04/2025	S04-BR-40648	MAIN SPAN BRIDGE - DECK ANCHOR - WEB PLATE - DETAILS
*	A	04/04/2025	S04-BR-40649	MAIN SPAN BRIDGE - DECK ANCHOR - ANCHOR PIPE - DETAILS
*	A	04/04/2025	S04-BR-40651	MAIN SPAN BRIDGE - DECK ANCHOR - WEB MOUNTING PLATE - DETAILS 1
*	A	04/04/2025	S04-BR-40652	MAIN SPAN BRIDGE - DECK ANCHOR - WEB MOUNTING PLATE - DETAILS 2
*	A	04/04/2025	S04-BR-40653	MAIN SPAN BRIDGE - DECK ANCHOR - WEB MOUNTING PLATE - DETAILS 3
*	A	04/04/2025	S04-BR-40666	MAIN SPAN BRIDGE - DECK ANCHOR - PIPE & PLATE - SCHEDULE 1
*	A	04/04/2025	S04-BR-40671	MAIN SPAN BRIDGE - PYLON P29 - STAY ANCHOR BOX - LAYOUT
*	A	04/04/2025	S04-BR-40673	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - ISOMETRIC VIEW
*	A	04/04/2025	S04-BR-40677	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX TYPE B - DETAILS 1
*	A	04/04/2025	S04-BR-40678	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX TYPE B - DETAILS 2
*	A	04/04/2025	S04-BR-40683	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 1
*	A	04/04/2025	S04-BR-40684	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 2
*	A	04/04/2025	S04-BR-40685	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 3
*	A	04/04/2025	S04-BR-40686	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 4
*	A	04/04/2025	S04-BR-40687	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 5
*	A	04/04/2025	S04-BR-40688	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - DETAILS 6
*	A	04/04/2025	S04-BR-40689	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 1
*	A	04/04/2025	S04-BR-40690	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 2
*	A	04/04/2025	S04-BR-40691	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 3
*	A	04/04/2025	S04-BR-40692	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 4
*	A	04/04/2025	S04-BR-40693	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 5
*	A	04/04/2025	S04-BR-40694	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 6
*	A	04/04/2025	S04-BR-40695	MAIN SPAN BRIDGE - PYLON P29 & P30 - STAY ANCHOR BOX - SCHEDULE 7
*	A	04/04/2025	S04-BR-40696	MAIN SPAN BRIDGE - DECK POST-TENSIONING - LAYOUT 1
*	A	04/04/2025	S04-BR-40697	MAIN SPAN BRIDGE - DECK POST-TENSIONING - LAYOUT 2
*	A	04/04/2025	S04-BR-40698	MAIN SPAN BRIDGE - DECK POST-TENSIONING - DETAILS 1
*	A	04/04/2025	S04-BR-40699	MAIN SPAN BRIDGE - DECK POST-TENSIONING - DETAILS 2
*	A	04/04/2025	S04-BR-40705	MAIN SPAN BRIDGE - PRECAST DECK PANEL - LAYOUT 1
*	A	04/04/2025	S04-BR-40706	MAIN SPAN BRIDGE - PRECAST DECK PANEL - LAYOUT 2
*	A	04/04/2025	S04-BR-40711	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 1 - DIMENSIONS
*	A	04/04/2025	S04-BR-40712	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 2 - DIMENSIONS
*	A	04/04/2025	S04-BR-40713	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 3 - DIMENSIONS
*	A	04/04/2025	S04-BR-40714	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 4 - DIMENSIONS
*	A	04/04/2025	S04-BR-40715	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 5 - DIMENSIONS
*	A	04/04/2025	S04-BR-40716	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 6 - DIMENSIONS
*	A	04/04/2025	S04-BR-40717	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 7 - DIMENSIONS
*	A	04/04/2025	S04-BR-40718	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 8 - DIMENSIONS
*	A	04/04/2025	S04-BR-40720	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 10 - DIMENSIONS
*	A	04/04/2025	S04-BR-40721	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 11 - DIMENSIONS
*	A	04/04/2025	S04-BR-40741	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP1A - REINFORCEMENT
*	A	04/04/2025	S04-BR-40742	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP2A - REINFORCEMENT
*	A	04/04/2025	S04-BR-40743	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP3A - REINFORCEMENT
*	A	04/04/2025	S04-BR-40744	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP4AP - REINFORCEMENT
*	A	04/04/2025	S04-BR-40745	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP5AP - REINFORCEMENT
*	A	04/04/2025	S04-BR-40746	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP4A - REINFORCEMENT
*	A	04/04/2025	S04-BR-40748	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP1B - REINFORCEMENT
*	A	04/04/2025	S04-BR-40751	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPE PP4BP - REINFORCEMENT
*	A	04/04/2025	S04-BR-40761	MAIN SPAN BRIDGE - PRECAST DECK PANEL - TYPICAL REINFORCEMENT DETAILS 1
*	A	04/04/2025	S04-BR-40781	MAIN SPAN BRIDGE - CIP STITCH REINFORCEMENT- DETAILS 1
*	A	04/04/2025	S04-BR-40782	MAIN SPAN BRIDGE - CIP STITCH REINFORCEMENT- DETAILS 2
*	A	04/04/2025	S04-BR-40791	MAIN SPAN BRIDGE - WIND BAFFLE - DETAILS 1
*	A	04/04/2025	S04-BR-40792	MAIN SPAN BRIDGE - WIND BAFFLE - DETAILS 2
*	A	04/04/2025	S04-BR-40801	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - DETAILS 1
*	A	04/04/2025	S04-BR-40802	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - DETAILS 2
*	A	04/04/2025	S04-BR-40803	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - DETAILS 3
*	A	04/04/2025	S04-BR-40804	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - DETAILS 4
*	A	04/04/2025	S04-BR-40805	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - BULKHEAD DETAILS 1
*	A	04/04/2025	S04-BR-40806	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - BULKHEAD DETAILS 2
*	A	04/04/2025	S04-BR-40811	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - PANEL LAYOUT
*	A	04/04/2025	S04-BR-40812	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - PANEL DIMENSIONS
*	A	04/04/2025	S04-BR-40813	MAIN SPAN BRIDGE - PIER P27 & P32 BALLAST - PANEL REINFORCEMENT
*	A	04/04/2025	S04-BR-40831	MAIN SPAN BRIDGE - DRAINAGE SCUPPER - DETAILS 1
*	A	04/04/2025	S04-BR-40841	MAIN SPAN BRIDGE - BEARING & RESTRAINT - LAYOUT
*	A	04/04/2025	S04-BR-40844	MAIN SPAN BRIDGE - PIER PIER P28 & P31 TIE-DOWN - DETAILS 1
*	A	04/04/2025	S04-BR-40845	MAIN SPAN BRIDGE - PIER PIER P28 & P31 TIE-DOWN - DETAILS 2
*	A	04/04/2025	S04-BR-40861	MAIN SPAN BRIDGE - PIER P27 & P32 TRANSV. SHEAR KEY - DETAILS
*	A	04/04/2025	S04-BR-40862	MAIN SPAN BRIDGE - PYLON P29 & P30 TRANSV. SHEAR KEY - DETAILS
*	A	04/04/2025	S04-BR-40863	MAIN SPAN BRIDGE - PYLON LUD BRACKET - DETAILS 1
*	A	04/04/2025	S04-BR-40864	MAIN SPAN BRIDGE - PYLON LUD BRACKET - DETAILS 2
*	A	04/04/2025	S04-BR-40883	MAIN SPAN BRIDGE - EXPANSION JOINT - DETAILS
*	A	04/04/2025	S04-BR-40931	MAIN SPAN BRIDGE - STRUCTURAL STEEL - COATING LIMITS
*	A	04/04/2025	S04-BR-40951	MAIN SPAN BRIDGE - MAINTENANCE SCHEMATICS - DETAILS 1
*	A	04/04/2025	S04-BR-40953	MAIN SPAN BRIDGE - INSPECTION PLATFORM - DETAILS 1
*	A	04/04/2025	S04-BR-40954	MAIN SPAN BRIDGE - INSPECTION PLATFORM - DETAILS 2
*	A	04/04/2025	S04-BR-40966	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 6
*	A	04/04/2025	S04-BR-40967	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 7
*	A	04/04/2025	S04-BR-40968	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 8

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP — DATE
PE STAMP — DATE
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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
SUPERSTRUCTURE
INDEX OF SHEETS 1

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INFRA-I010(353)	2025	S00-GN-10002

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*	A	02/14/2025		TITLE SHEET
*	A	02/14/2025	S00-GN-10002	INDEX OF SHEETS
*	A	02/14/2025	S04-BR-40021	MAIN SPAN BRIDGE - GENERAL NOTES
		09/01/2023	S04-BR-40101	MAIN SPAN BRIDGE - GENERAL PLAN & ELEVATION
		09/01/2023	S04-BR-40105	MAIN SPAN BRIDGE - TYPICAL TRANSVERSE SECTION - DETAILS
*	A	02/14/2025	S04-BR-40115	MAIN SPAN BRIDGE - FOUNDATION LAYOUT
*	A	02/14/2025	S04-BR-40116	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 1
*	A	02/14/2025	S04-BR-40117	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 2
*	A	02/14/2025	S04-BR-40118	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 3
*	A	02/14/2025	S04-BR-40121	MAIN SPAN BRIDGE - PIER P27 & P32 - FOUNDATION DIMENSIONS
*	A	02/14/2025	S04-BR-40124	MAIN SPAN BRIDGE - PIER P27 - FOOTING REINFORCEMENT 1
*	A	02/14/2025	S04-BR-40125	MAIN SPAN BRIDGE - PIER P27 - FOOTING REINFORCEMENT 2
*	A	02/14/2025	S04-BR-40126	MAIN SPAN BRIDGE - PIER P32 - FOOTING REINFORCEMENT 1
*	A	02/14/2025	S04-BR-40127	MAIN SPAN BRIDGE - PIER P32 - FOOTING REINFORCEMENT 2
*	A	02/14/2025	S04-BR-40131	MAIN SPAN BRIDGE - PIER P28 & P31 - FOUNDATION DIMENSIONS
*	A	02/14/2025	S04-BR-40134	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 1
*	A	02/14/2025	S04-BR-40135	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 2
*	A	02/14/2025	S04-BR-40136	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 3
*	A	02/14/2025	S04-BR-40137	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 4
*	A	02/14/2025	S04-BR-40138	MAIN SPAN BRIDGE - PIER P31 - FOOTING REINFORCEMENT 1
*	A	02/14/2025	S04-BR-40139	MAIN SPAN BRIDGE - PIER P31 - FOOTING REINFORCEMENT 2
*	A	02/14/2025	S04-BR-40142	MAIN SPAN BRIDGE - PYLON P29 - FOUNDATION DIMENSIONS
*	A	02/14/2025	S04-BR-40143	MAIN SPAN BRIDGE - PYLON P30 - FOUNDATION DIMENSIONS
*	A	02/14/2025	S04-BR-40151	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 1
*	A	02/14/2025	S04-BR-40152	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 2
*	A	02/14/2025	S04-BR-40153	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 3
*	A	02/14/2025	S04-BR-40154	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 4
*	A	02/14/2025	S04-BR-40155	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 5
*	A	02/14/2025	S04-BR-40156	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 6
		09/01/2023	S04-BR-40165	MAIN SPAN BRIDGE - PYLON P29 - DIMENSIONS
		09/01/2023	S04-BR-40166	MAIN SPAN BRIDGE - PYLON P30 - DIMENSIONS
		09/01/2023	S04-BR-40167	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 1
		09/01/2023	S04-BR-40168	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 2
		09/01/2023	S04-BR-40172	MAIN SPAN BRIDGE - PYLON P29 & P30 - POST-TENSIONING DETAILS 1
*	A	02/14/2025	S04-BR-40261	MAIN SPAN BRIDGE - PYLON P29 & P30 - MISCELLANEOUS DETAILS
		09/01/2023	S04-BR-40501	MAIN SPAN BRIDGE - FRAMING LAYOUT 1
		09/01/2023	S04-BR-40502	MAIN SPAN BRIDGE - FRAMING LAYOUT 2
		09/01/2023	S04-BR-40521	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - FIELD SECTION TYPE 1
		09/01/2023	S04-BR-40533	MAIN SPAN BRIDGE - LONGITUDINAL EDGE GIRDER - DETAILS
		09/01/2023	S04-BR-40572	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB2
		09/01/2023	S04-BR-40573	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB3
		09/01/2023	S04-BR-40574	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - TYPE FB4
		09/01/2023	S04-BR-40582	MAIN SPAN BRIDGE - TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 3
		09/01/2023	S04-BR-40596	MAIN SPAN BRIDGE - STAY TOP FLANGE BRACING - TYPE 1 DETAILS
		09/01/2023	S04-BR-40631	MAIN SPAN BRIDGE - STAY CABLE - DESIGNATION
		09/01/2023	S04-BR-40641	MAIN SPAN BRIDGE - DECK ANCHOR - ISOMETRIC DETAILS
		09/01/2023	S04-BR-40643	MAIN SPAN BRIDGE - DECK ANCHOR - TYPICAL DECK ANCHOR DETAILS
		09/01/2023	S04-BR-40696	MAIN SPAN BRIDGE - DECK POST-TENSIONING - LAYOUT 1
		09/01/2023	S04-BR-40697	MAIN SPAN BRIDGE - DECK POST-TENSIONING - LAYOUT 2
		09/01/2023	S04-BR-40698	MAIN SPAN BRIDGE - DECK POST-TENSIONING - DETAILS 1
		09/01/2023	S04-BR-40705	MAIN SPAN BRIDGE - PRECAST DECK PANEL - LAYOUT
		09/01/2023	S04-BR-40712	MAIN SPAN BRIDGE - PRECAST DECK PANEL - DETAILS 2 - DIMENSIONS
		09/01/2023	S04-BR-40801	MAIN SPAN BRIDGE - PIER P27 AND P32 BALLAST - DETAILS 1
		09/01/2023	S04-BR-40883	MAIN SPAN BRIDGE - EXPANSION JOINT - DETAILS
		09/01/2023	S04-BR-40951	MAIN SPAN BRIDGE - MAINTENANCE SCHEMATICS - DETAILS 1
		09/01/2023	S04-BR-40952	MAIN SPAN BRIDGE - MAINTENANCE SCHEMATICS - DETAILS 2
		09/01/2023	S04-BR-40953	MAIN SPAN BRIDGE - INSPECTION PLATFORM - DETAILS 1
		09/01/2023	S04-BR-40961	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 1
		09/01/2023	S04-BR-40962	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 2
		09/01/2023	S04-BR-40966	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 6
		09/01/2023	S04-BR-40967	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 7
		09/01/2023	S04-BR-40968	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 8

*	REV	DATE	SHEET NO	DESCRIPTION
FENDER AND BULKHEAD				
*	A	02/14/25	S04-PP-1002	MAIN SPAN BRIDGE - FENDER AND BULKHEAD - PLANS AND SECTIONS
*	A	02/14/25	S04-PP-1003	MAIN SPAN BRIDGE - FENDER SYSTEM - EAST PYLON P30
*	A	02/14/25	S04-PP-1011	MAIN SPAN BRIDGE - FENDER SYSTEM - TYPICAL SECTION
*	A	02/14/25	S04-PP-1012	MAIN SPAN BRIDGE - FENDER SYSTEM - SECTIONS (1 OF 2)
*	A	02/14/25	S04-PP-1013	MAIN SPAN BRIDGE - FENDER SYSTEM - SECTIONS (2 OF 2)
*	A	02/14/25	S04-PP-1014	MAIN SPAN BRIDGE - FENDER SYSTEM - PROFILE EAST FENDER

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S00-GN-10002.dgn
Brad.Shepard
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2/12/2025

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

PE STAMP | PE STAMP | QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

ROUTE	SHEET TITLE
I-10	MAIN SPAN BRIDGE INDEX OF SHEETS 1

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INFRA-I010(353)	2025	S04-BR-01002

* INCLUDED IN THIS PACKAGE

*	REV	DATE	SHEET NO	DESCRIPTION
*				TITLE SHEET
*	B	04/04/2025	S04-BR-01002	INDEX OF SHEETS
	A	04/04/2025	S04-BR-40021	MAIN SPAN BRIDGE - GENERAL NOTES 1
	A	04/04/2025	S04-BR-40022	MAIN SPAN BRIDGE - GENERAL NOTES 2
	A	04/04/2025	S04-BR-40023	MAIN SPAN BRIDGE - GENERAL NOTES 3
	A	02/14/2025	S04-BR-40115	MAIN SPAN BRIDGE - FOUNDATION LAYOUT
	A	02/14/2025	S04-BR-40116	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 1
	A	02/14/2025	S04-BR-40117	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 2
	A	02/14/2025	S04-BR-40118	MAIN SPAN BRIDGE - FOUNDATION - PILE DETAILS 3
	A	02/14/2025	S04-BR-40121	MAIN SPAN BRIDGE - PIER P27 & P32 - FOUNDATION DIMENSIONS
*	A	04/04/2025	S04-BR-40123	MAIN SPAN BRIDGE - PIER P27 & P32 - DIMENSIONS
	A	02/14/2025	S04-BR-40124	MAIN SPAN BRIDGE - PIER P27 - FOOTING REINFORCEMENT 1
	A	02/14/2025	S04-BR-40125	MAIN SPAN BRIDGE - PIER P27 - FOOTING REINFORCEMENT 2
	A	02/14/2025	S04-BR-40126	MAIN SPAN BRIDGE - PIER P32 - FOOTING REINFORCEMENT 1
	A	02/14/2025	S04-BR-40127	MAIN SPAN BRIDGE - PIER P32 - FOOTING REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40128	MAIN SPAN BRIDGE - PIER P27 & P32 - COLUMN & CAP REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40129	MAIN SPAN BRIDGE - PIER P27 & P32 - COLUMN & CAP REINFORCEMENT 2
	A	02/14/2025	S04-BR-40131	MAIN SPAN BRIDGE - PIER P28 & P31 - FOUNDATION DIMENSIONS
*	A	04/04/2025	S04-BR-40133	MAIN SPAN BRIDGE - PIER P28 & P31 - DIMENSIONS
	A	02/14/2025	S04-BR-40134	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 1
	A	02/14/2025	S04-BR-40135	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 2
	A	02/14/2025	S04-BR-40136	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 3
	A	02/14/2025	S04-BR-40137	MAIN SPAN BRIDGE - PIER P28 - FOOTING REINFORCEMENT 4
	A	02/14/2025	S04-BR-40138	MAIN SPAN BRIDGE - PIER P31 - FOOTING REINFORCEMENT 1
	A	02/14/2025	S04-BR-40139	MAIN SPAN BRIDGE - PIER P31 - FOOTING REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40140	MAIN SPAN BRIDGE - PIER P28 & P31 - COLUMN & CAP REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40141	MAIN SPAN BRIDGE - PIER P28 & P31 - COLUMN & CAP REINFORCEMENT 2
	A	02/14/2025	S04-BR-40142	MAIN SPAN BRIDGE - PYLON P29 - FOUNDATION DIMENSIONS
	A	02/14/2025	S04-BR-40143	MAIN SPAN BRIDGE - PYLON P30 - FOUNDATION DIMENSIONS
	A	02/14/2025	S04-BR-40151	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 1
	A	02/14/2025	S04-BR-40152	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 2
	A	02/14/2025	S04-BR-40153	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 3
	A	02/14/2025	S04-BR-40154	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 4
	A	02/14/2025	S04-BR-40155	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 5
	A	02/14/2025	S04-BR-40156	MAIN SPAN BRIDGE - PYLON P29 & P30 - FOOTING REINFORCEMENT 6
*	A	04/04/2025	S04-BR-40165	MAIN SPAN BRIDGE - PYLON P29 - DIMENSIONS
*	A	04/04/2025	S04-BR-40166	MAIN SPAN BRIDGE - PYLON P30 - DIMENSIONS
*	A	04/04/2025	S04-BR-40167	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 1
*	A	04/04/2025	S04-BR-40168	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 2
*	A	04/04/2025	S04-BR-40169	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 3
*	A	04/04/2025	S04-BR-40170	MAIN SPAN BRIDGE - PYLON P29 & P30 - DETAILS 4
*	A	04/04/2025	S04-BR-40171	MAIN SPAN BRIDGE - PYLON P29 & P30 - LIFT CONSTRUCTION JOINT LAYOUT
*	A	04/04/2025	S04-BR-40172	MAIN SPAN BRIDGE - PYLON P29 & P30 - POST-TENSIONING DETAILS 1
*	A	04/04/2025	S04-BR-40173	MAIN SPAN BRIDGE - PYLON P29 & P30 - POST-TENSIONING DETAILS 2
*	A	04/04/2025	S04-BR-40181	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON BASE REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40182	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON BASE REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40183	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON BASE REINFORCEMENT 3
*	A	04/04/2025	S04-BR-40184	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON BASE REINFORCEMENT 4
*	A	04/04/2025	S04-BR-40185	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON BASE REINFORCEMENT 5
*	A	04/04/2025	S04-BR-40191	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40192	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40193	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 3
*	A	04/04/2025	S04-BR-40194	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 4
*	A	04/04/2025	S04-BR-40195	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 5
*	A	04/04/2025	S04-BR-40196	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 6
*	A	04/04/2025	S04-BR-40197	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 7
*	A	04/04/2025	S04-BR-40198	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG REINFORCEMENT 8
*	A	04/04/2025	S04-BR-40199	MAIN SPAN BRIDGE - PYLON P29 & P30 - LOWER LEG MISCELLANEOUS DETAILS

*	REV	DATE	SHEET NO	DESCRIPTION
*	A	04/04/2025	S04-BR-40221	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40222	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40223	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 3
*	A	04/04/2025	S04-BR-40224	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 4
*	A	04/04/2025	S04-BR-40225	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 5
*	A	04/04/2025	S04-BR-40226	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 6
*	A	04/04/2025	S04-BR-40227	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 7
*	A	04/04/2025	S04-BR-40228	MAIN SPAN BRIDGE - PYLON P29 & P30 - CROSSBEAM REINFORCEMENT 8
*	A	04/04/2025	S04-BR-40231	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40232	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40233	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 3
*	A	04/04/2025	S04-BR-40234	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 4
*	A	04/04/2025	S04-BR-40235	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 5
*	A	04/04/2025	S04-BR-40236	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 6
*	A	04/04/2025	S04-BR-40237	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 7
*	A	04/04/2025	S04-BR-40238	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 8
*	A	04/04/2025	S04-BR-40239	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 9
*	A	04/04/2025	S04-BR-40240	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 10
*	A	04/04/2025	S04-BR-40241	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 11
*	A	04/04/2025	S04-BR-40242	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 12
*	A	04/04/2025	S04-BR-40243	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 13
*	A	04/04/2025	S04-BR-40244	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 14
*	A	04/04/2025	S04-BR-40245	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 15
*	A	04/04/2025	S04-BR-40246	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG REINFORCEMENT 16
*	A	04/04/2025	S04-BR-40247	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG MISCELLANEOUS DETAILS 1
*	A	04/04/2025	S04-BR-40248	MAIN SPAN BRIDGE - PYLON P29 & P30 - UPPER LEG MISCELLANEOUS DETAILS 2
*	A	04/04/2025	S04-BR-40251	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON HEAD REINFORCEMENT 1
*	A	04/04/2025	S04-BR-40252	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON HEAD REINFORCEMENT 2
*	A	04/04/2025	S04-BR-40253	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON HEAD REINFORCEMENT 3
*	A	04/04/2025	S04-BR-40254	MAIN SPAN BRIDGE - PYLON P29 & P30 - PYLON HEAD REINFORCEMENT 4
*	B	04/04/2025	S04-BR-40261	MAIN SPAN BRIDGE - PYLON P29 & P30 - MISCELLANEOUS DETAILS
*	A	04/04/2025	S04-BR-40263	MAIN SPAN BRIDGE - PYLON P29 & P30 - ACCESS OPENING DETAILS
*	A	04/04/2025	S04-BR-40935	MAIN SPAN BRIDGE - PYLON P29 & P30 - ACCESS DETAILS 1
*	A	04/04/2025	S04-BR-40936	MAIN SPAN BRIDGE - PYLON P29 & P30 - ACCESS DETAILS 2
*	A	04/04/2025	S04-BR-40961	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 1
*	A	04/04/2025	S04-BR-40962	MAIN SPAN BRIDGE - ERECTION SCHEMATICS - DETAILS 2
				FENDER AND BULKHEAD
	A	02/14/2025	S04-PP-1002	MAIN SPAN BRIDGE - FENDER AND BULKHEAD - PLANS AND SECTIONS
	A	02/14/2025	S04-PP-1003	MAIN SPAN BRIDGE - FENDER SYSTEM - EAST PYLON P30
	A	02/14/2025	S04-PP-1011	MAIN SPAN BRIDGE - FENDER SYSTEM - TYPICAL SECTION
	A	02/14/2025	S04-PP-1012	MAIN SPAN BRIDGE - FENDER SYSTEM - SECTIONS (1 OF 2)
	A	02/14/2025	S04-PP-1013	MAIN SPAN BRIDGE - FENDER SYSTEM - SECTIONS (2 OF 2)
	A	02/14/2025	S04-PP-1014	MAIN SPAN BRIDGE - FENDER SYSTEM - PROFILE EAST FENDER

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40021

DESIGN SPECIFICATIONS

1. ALDOT I-10 MOBILE RIVER BRIDGE PROJECT - TECHNICAL PROVISIONS, INDUSTRY DRAFT (AUGUST 02, 2024)
2. ALDOT STRUCTURAL DESIGN MANUAL, JANUARY 2023. (EXCEPTIONS TO THE REQUIREMENTS OF THE MANUAL ARE ALLOWED ONLY IF ALDOT APPROVES A SPECIFIC REQUEST (RFI) SUBMITTED BY THE DESIGN BUILDER TO THE BRIDGE ENGINEER.)
3. ALDOT STANDARDS AND SPECIAL DRAWINGS.
4. ALDOT BRIDGE SPECIAL DRAWINGS.
5. ALDOT GUIDELINES FOR OPERATION, SEPTEMBER 2017.
6. ALDOT QUALITY CONTROL MANUAL FOR BRIDGE PLAN DETAILING, JANUARY 2021.
7. ALDOT BRIDGE INSPECTION MANUAL, OCTOBER 2021.
8. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
9. COMITE EURO-INTERNATIONAL DE BETON - FEDERATION INTERNATIONALE DE LA PRECONSTRAINTE (CEB-FIP) MODEL CODE 1990, CHAPTER 2 MATERIAL PROPERTIES (FOR CONCRETE CREEP AND SHRINKAGE EFFECTS ONLY).
10. POST-TENSIONING INSTITUTE DC45.1 RECOMMENDATIONS FOR STAY CABLE DESIGN, TESTING, AND INSTALLATION, 7TH EDITION, 2018.
11. FHWA TS-80-205 DESIGN SPECIFICATIONS FOR STEEL BOX GIRDERS.
12. AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION, 2017.
13. AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY 318-19(22).
14. AASHTO/AWS D1.5M/D1.5-2015, BRIDGE WELDING CODE.
15. AWS D1.1, STRUCTURAL WELDING CODE STEEL.
16. AASHTO MANUAL FOR BRIDGE EVALUATION.
17. AASHTO GUIDE SPECIFICATION AND COMMENTARY FOR VESSEL COLLISION DESIGN OF HIGHWAY BRIDGES, 2ND EDITION, WITH 2010 INTERIM REVISIONS.
18. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
19. AASHTO BRIDGE SECURITY GUIDELINES.
20. GUIDE SPECIFICATIONS FOR BRIDGES VULNERABLE TO COASTAL STORMS, FIRST EDITION, 2008 WITH MARCH 2010 ERRATA; AND 2023 INTERIM REVISIONS.
21. POST-TENSIONING INSTITUTE SPECIFICATION FOR GROUTING OF POST-TENSIONED STRUCTURES M55.1-19.
22. PTI/ASBI GUIDE SPECIFICATION FOR GROUTED POST-TENSIONING M50.3-19.
23. ASCE/SEI 7 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
24. AASHTO GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORKS.
25. AASHTO M 251 STANDARD SPECIFICATION FOR PLAIN AND LAMINATED ELASTOMERIC BRIDGE BEARINGS.
26. AASHTO GUIDE SPECIFICATION FOR SERVICE LIFE DESIGN OF HIGHWAY BRIDGES.
27. CSX PUBLIC PROJECT INFORMATION.
28. PIANC GUIDELINES FOR THE DESIGN OF FENDER SYSTEMS.
29. AASHTO GUIDE SPECIFICATIONS FOR ANALYSIS AND IDENTIFICATION OF FRACTURE CRITICAL MEMBERS AND SYSTEM REDUNDANT MEMBERS, 2018.

UNITS

1. UNITS FOR DESIGN AND DETAILING OF THE STRUCTURE ARE THE ENGLISH UNITS OF FEET (INCHES), POUNDS (KIPS), DEGREES FAHRENHEIT, ETC.

DIMENSIONS

1. DIMENSIONS GIVEN ON THE PLANS ARE MEASURED HORIZONTALLY AND VERTICALLY AT 70 DEGREES FAHRENHEIT (F) UNLESS OTHERWISE NOTED.

WATER LEVELS

1. MEAN HIGH WATER LEVEL (MHW) +1.07' NAVD88.
2. FUTURE SEA LEVEL RISE = 3.04' (FUTURE MHW = 4.11').

CLEARANCES

1. MINIMUM NAVIGATION CHANNEL HORIZONTAL CLEARANCE SHALL BE 600 FEET NORMAL TO AND CENTERED ON THE NAVIGATION CHANNEL CENTERLINE.
2. MINIMUM NAVIGATION CHANNEL VERTICAL CLEARANCE SHALL BE 215 FEET ABOVE THE MHW ELEVATION THROUGH THE PERMITTED WIDTH OF THE NAVIGATION CHANNEL.
3. MINIMUM VERTICAL ROADWAY CLEARANCE:
   a. 17'-0" ABOVE ROADWAY.
   b. 18'-0" ABOVE ROADWAY AT OVERHEAD SIGN STRUCTURES.
4. NO OBSTRUCTION SHALL PENETRATE THE HORIZONTAL AND VERTICAL ENVELOPES SPECIFIED FOR THE NAVIGATION CHANNEL UNDER SERVICE I LOAD COMBINATION AS DEFINED IN TABLE 3.4.1-1 OF AASHTO LRFD.

DESIGN SERVICE LIFE

1. THE SERVICE LIFE OF THE BRIDGE SHALL BE 100 YEARS IN ACCORDANCE WITH FIB BULLETIN 34, EXCEPT AS OUTLINED BELOW FOR REPLACEABLE COMPONENTS.

MINIMUM SERVICE LIFE FOR COMPONENTS:

NON-REPLACEABLE COMPONENTS	MINIMUM SERVICE LIFE (YEARS)
PYLONS, FOUNDATIONS, PIERS, PIER CAPS, ABUTMNTS, DECK, SUPERSTRUCTURE AND POST-TENSIONING SYSTEMS	100

REPLACEABLE COMPONENTS	MINIMUM SERVICE LIFE (YEARS)
STAY-CABLES	100
CABLE HOUSING AND STAY PIPES	100
STAY CABLE SHEATHING	75
STAY CABLE DAMPERS	40
BEARINGS	50
EXPANSION JOINTS	30
EXPANSION JOINTS, MAIN SPAN BRIDGE TO HIGH-LEVEL APPROACHES	50
BRIDGE RAILING	60
PEDESTRIAN-ONLY RAILINGS	60
DRAINAGE SYSTEM	60
WEARING SURFACE (PPC)	25
LOCK-UP DEVICES (LUD):	
•CYLINDER	50
•ALL OTHER COMPONENTS OF LUD	30
•SPHERICAL BEARINGS AS PART OF THE ASSEMBLY	50
INTERNAL ACCESS LADDERS AND PLATFORMS	60
ELECTRICAL AND MECHANICAL PARTS	30
GALVANIZING OF STRUCTURAL STEEL	35
METALLIZING OF STRUCTURAL STEEL	35
LIGHTNING PROTECTION SYSTEM	30
NAVIGATIONAL LIGHTING	30
EMBEDDED COMPONENTS OF STRUCTURAL HEALTH MONITORING SYSTEM	40
AESTHETIC LIGHTING HARDWARE	25
FOUNDATIONS FOR TRAFFIC SIGNAL STRUCTURES AND SIGN STRUCTURES	30
OTHER PROPOSED COMPONENTS (INCLUDING FENDER SYSTEM)	30

DESIGN METHODS

1. REINFORCED CONCRETE:

   ALL REINFORCED CONCRETE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LRFD DESIGN METHOD (LOAD AND RESISTANCE FACTOR DESIGN).

   LONGITUDINAL AND TRANSVERSE CONCRETE REINFORCEMENT OF THE MAIN BRIDGE DECK SLAB SHALL BE DISTRIBUTED PER AASHTO LRFD SECTION 5.6.7 AT THE SERVICE LIMIT STATE. DESIGN OF REINFORCED CONCRETE ELEMENTS SHALL SATISFY MAXIMUM ALLOWABLE CRACK WIDTHS NOT TO EXCEED 0.017 INCH (CLASS 1 EXPOSURE) OR THAT REQUIRED BY THE "SERVICE LIFE DESIGN REPORT AND CORROSION PROTECTION PLAN."

2. PRESTRESSED CONCRETE:

   ALL PRESTRESSED CONCRETE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LRFD DESIGN METHOD.

   SUPERSTRUCTURES WITH PERMANENT PRESTRESSING, EXCEPT FOR THE CONCRETE DECK FOR THE CABLE-STAYED BRIDGE, SHALL BE BASED ON NO SERVICE-LEVEL TENSILE STRESS IN THE CONCRETE.

3. STRUCTURAL STEEL:

   ALL STRUCTURAL STEEL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LRFD DESIGN METHOD.

4. STAY CABLES:

   STAY CABLES SHALL BE DESIGNED IN ACCORDANCE WITH THE LRFD DESIGN METHOD AND WITH POST TENSIONING INSTITUTE (PTI) "RECOMMENDATIONS FOR STAY CABLE DESIGN, TESTING AND INSTALLATION."

DESIGN LOADS

1. LOAD MODIFIERS:

   UNLESS OTHERWISE STATED, BRIDGE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO LRFD SECTION 1. 3. 2, WHERE THE LOAD MODIFIER η IS TAKEN AS THE PRODUCT OF $\eta_D.\eta_R.\eta_I$ WHERE:

   DUCTILITY FACTOR $\eta_D = 1.00$
   REDUNDANCY FACTOR $\eta_R = 1.00$
   OPERATION IMPORTANCE $\eta_I = 1.05$ FOR ALL STRENGH LIMIT STATES (EXCLUDING CONSTRUCTION).

2. DEAD LOADS:

REINFORCED CONCRETE	PER AASHTO 3.5.1
UNREINFORCED CONCRETE, SEAL CONCRETE	= 150 PCF
PRESTRESSED CONCRETE	= 150 PCF
MAINSPAN PRECAST DECK PANELS	= 160 PCF
MAINSPAN DECK PANEL INFILL JOINTS	= 160 PCF
BALLAST CONCRETE	= 150 PCF
PIPE PILE INFILL CONCRETE	= 150 PCF
STRUCTURAL STEEL	= 490 PCF
STAY CABLES (STEEL ONLY)	= 490 PCF
POLYETHYLENE PIPE	= 60 PCF
PPC WEARING SURFACE	= 140 PCF
MODIFIED BBR-M(54) MEDIAN BARRIER	= 1252 LB/FT
PENNDOT BD-610M EDGE TL-5 OPENBARRIER	= 800 LB/FT/BARRIER
BAFFLE PLATE (PRELIMINARY)	= 125 LBS/FT/PLATE
UTILITIES	= 0 LBS/FT (NO ALLOWANCE ACCOUNTED TO DATE)
LOCK-UP DEVICE	= 3000 LBS EACH
MAINTENANCE CATWALK	= 100 LBS/FT
ADDITIONAL SUPERIMPOSED DEAD LOAD ALLOWANCE	= 200 LB/FT AS A LINE LOAD ALONG THE ℄ OF THE EASTBOUND AND WESTBOUND LANES

3. LIVE LOADS (LL, IM):

   APPLICATION OF LIVE LOAD ON THE MAIN BRIDGE SHALL FOLLOW AASHTO LRFD SECTION 3.6. LOCAL ELEMENTS OF THE MAIN SPAN (INCLUDING BUT NOT LIMITED TO DECKS, FLOORBEAMS, EDGE GIRDERS AND INDIVIDUAL STAY CABLES) SHALL BE LOADED PER AASHTO HL-93 OR TANDEM TRUCK PLUS LANE LOAD.

   LIVE LOAD DYNAMIC LOAD ALLOWANCE IS COMPUTED IN ACCORDANCE WITH AASHTO LRFD 3.6.2. DYNAMIC LOADS ARE APPLIED TO THE SUPERSTRUCTURE AND TO THE PIERS AND PYLONS ABOVE THE TOP OF FOOTINGS. DYNAMIC LOADS ARE NOT APPLIED TO FOOTINGS OR FOUNDATIONS.

   FOR THE FATIGUE LIMIT STATE, THE FATIGUE LOAD IS A SINGLE FATIGUE TRUCK, OCCUPYING A SINGLE LANE IN THE TRAFFIC DIRECTION. THE ADTT VALUE OF TBD VEHICLES PER DAY SHALL BE USED FOR DESIGN.

   FATIGUE OF STAY CABLES AND ANCHORAGE COMPONENTS ARE IN ACCORDANCE WITH POST-TENSIONING INSTITUTE (PTI) "RECOMMENDATIONS FOR STAY CABLE DESIGN, TESTING AND INSTALLATION."

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
GENERAL NOTES 1

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DESIGN LOADS (CONTINUED)

4. WIND LOADS (WS, WL)

THE DESIGN WIND SPEED CRITERIA FOR THE COMPLETED BRIDGE AND THE PARTIALLY COMPLETED BRIDGE DURING CONSTRUCTION ARE PROVIDED BELOW BASED ON THE RWDI REPORT, I-10 MOBILE RIVER BRIDGE - WIND CLIMATE AND SITE ANALYSIS REPORT, AUGUST 10, 2023:

WIND SPEED AT BRIDGE SITE APPLICABLE FOR:	RETURN PERIOD (YEARS)	MEAN WIND SPEED (MPH) AT DECK LEVEL 230 FT AND AVERAGING TIME		CORRESPONDING 3-SECOND GUST SPEED (MPH) AT 33 FT OPEN TERRAIN
DESIGN DURING CONSTRUCTION	97	110.3	1 hour	122.3
DESIGN OF COMPLETED BRIDGE	1400	143.2	1 hour	158.7
STABILITY DURING CONSTRUCTION	1,000	129.4*	10 min	139.8*
STABILITY OF COMPLETED BRIDGE	10,000	150.1*	10 min	162.2*

(*) INCLUDES REDUCTION DUE TO EXTREME WIND DIRECTIONALITY.

WIND TUNNEL TESTING (SECTIONAL AND FULL AEROELASTIC MODEL TESTING) SHALL BE PERFORMED ON THE CABLE-STAYED BRIDGE FOR DETERMINATION OF WIND LOADING AND AEROELASTIC INSTABILITIES.

BRIDGE COMFORT LEVELS: PER AASHTO LRFD 3.8.3.3.
WIND ON LIVE LOAD (WL) PER AASHTO LRFD 3.8.1.3.

5. TEMPERATURE LOADS (TU, TG)

MEAN TEMPERATURE = 70 °F

COEFFICIENTS OF THERMAL EXPANSION:
CONCRETE MEMBERS = 6.0 X 10-6 PER °F
STEEL MEMBERS = 6.5 X 10-6 PER °F

UNIFORM TEMPERATURE, ALL STRUCTURAL ELEMENTS (DECK, PIERS, PYLON, CABLES):
MAXIMUM EFFECTIVE TEMPERATURE = 110°F (40°F RISE)
MINIMUM EFFECTIVE TEMPERATURE = 25°F (45°F DROP)

TEMPERATURE DIFFERENTIAL (TO BE ADDED TO TU LOADING):

THE UNIFORM DIFFERENTIAL TEMPERATURE BETWEEN CABLES AND THE REST OF THE STRUCTURE SHALL BE TAKEN AS -10°F (TEMPERATURE DROP IN CABLES RELATIVE TO STRUCTURE) OR +20°F (TEMPERATURE RISE IN CABLES RELATIVE TO STRUCTURE).

THE TEMPERATURE DIFFERENTIAL BETWEEN STAY CABLES LEFT AND RIGHT OF THE PYLON, LONGITUDINALLY, SHALL BE ASSUMED TO BE ±10°F.

TEMPERATURE GRADIENT (TG):
THE DESIGN TEMPERATURE DIFFERENTIAL BETWEEN OPPOSITE FACES OF THE CONCRETE PYLONS OR TRANSITION PIERS SHALL BE ASSUMED TO BE ±10°F.
THE DESIGN TEMPERATURE DIFFERENTIAL BETWEEN TOP AND BOTTOM OF SUPERSTRUCTURE IS IN ACCORDANCE WITH AASHTO LRFD, SECTION 3.12.3, TEMPERATURE ZONE 3.

TEMPERATURE MOVEMENTS, INCLUDING THE ADDITIONAL COMBINED MOVEMENTS DUE TO CREEP, SHRINKAGE AND ELASTIC SHORTENING SHALL BE CONSIDERED AS FOLLOWS:

· 1.2 X (TEMPERATURE FALL) + CREEP + SHRINKAGE + ELASTIC SHORTENING
· 1.2 X (TEMPERATURE RISE)

FRICTION AT DISC BEARINGS SHALL BE PER AASHTO LRFD TABLE 14.7.2.5-1 FOR A BEARING PRESSURE GREATER THAN 3.0KSI

6. CREEP AND SHRINKAGE

STRAINS SHALL BE CALCULATED IN ACCORDANCE WITH THE CEB-FIP MODEL CODE FOR STRUCTURES, AT 75% AVERAGE RELATIVE HUMIDITY. S=0.25 IS USED FOR NORMAL HARDENING CEMENT ON THE CEB-FIP FORMULA.
UNLESS NOTED OTHERWISE, AGE OF PRECAST ELEMENTS AT TIME OF INSTALLATION SHALL BE ASSUMED AT 90 DAYS. CREEP AND SHRINKAGE EFFECTS ARE EVALUATED AT DAY 10,000.

7. EARTHQUAKE LOADS

SEISMIC DESIGN CATEGORY: A1; SITE CLASS DEFINITION: D

HORIZONTAL RESPONSE SPECTRAL ACCELERATION COEFFICIENT AT 1.0 SECOND PERIOD SHALL BE MODIFIED BY LONG-PERIOD SIT FACTOR (SD1): 0.072
-HORIZONTAL RESPONSE SPECTRAL ACCELERATION COEFFICIENT AT 1.0 SECOND PERIOD (S1): 0.03
-SITE FACTOR FOR LONG-PERIOD RANGE OF ACCELERATION SPECTRUM (FV): 2.4

PEAK SEISMIC GROUND ACCELERATION COEFFICIENT SHALL BE MODIFIED BY SHORT-PERIOD SITE FACTOR (AS): 0.48
-HORIZONTAL PEAK GROUND ACCELERATION COEFFICIENT (PGA): 0.3
-SITE FACTOR AT ZERO-PERIOD ON ACCELERATION SPECTRUM (FPGA): 1.6

MINIMUM SUPPORT LENGTH SHALL BE PER AASHTO 4.7.4.4.

LIVE LOAD FACTOR FORE EXTREME EVENT I LOAD COMBINATION SHALL BE 0.50.

8. WATER LOADS AND SCOUR

WATER LOADS DUE TO STREAM CURRENT SHALL BE IN ACCORDANCE WITH SECTION 3.7 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ALL SERVICE AND STRENGTH COMBINATIONS SHALL BE CHECKED AT 100 YEARS SCOUR TBD. IN ACCORDANCE WITH SECTION 2.6.4.4.2 OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. ADDITIONAL LOAD COMBINATIONS SHALL BE CHECKED AS EXTREME EVENT LIMIT STATE:

· yp DC + yp DW + 1.75(LL+IM) + 1.0FR AT 180% OF 100-YEAR SCOUR
· yp DC + yp DW + 1.0WA + 1.0FR + 1.00 WS AT 70% OF 100-YEAR SCOUR
· yp DC + yp DW + 1.0WA + 1.0FR + 1.00 CV AT 60% OF 100-YEAR SCOUR

LOCATION STREAM VELOCITIES (FPS)

	100-YEAR (FPS)	500-YEAR (FPS)
PYLON 30	TBD	TBD
PIER 31	TBD	TBD
PIER 32	TBD	TBD

STABILITY OF BRIDGE FOUNDATIONS SHALL BE CHECKED FOR 500-YEAR SCOUR AS AN EXTREME EVENT LIMIT STATE IN ACCORDANCE WITH SECTION 2.6.4.4.2 OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS:

LOCATION TOTAL SCOUR DEPTH

	100-YEAR (FT)	500-YEAR (FT)
PYLON 30	37'	19'
PIER 31	TBD	TBD
PIER 32	TBD	TBD

HYDRAULIC AND SCOUR ANALYSIS SHALL BE PERFORMED FOR THE ACTUAL SUBSTRUCTURE LOCATIONS AND SIZES EMPLOYED. VALUES PROVIDED ARE PRELIMINARY, BASED OFF OF THE STANTEC REPORT "PRELIMINARY WAVE FORCING AND SCOUR ANALYSIS FOR I-10 MOBILE RIVER BRIDGE AND BAYWAY PROJECT MOBILE, ALABAMA," SEPTEMBER 20, 2019.

9. VESSEL COLLISION

THE BRIDGE SHALL BE CLASSIFIED AS A CRITICAL OR ESSENTIAL BRIDGE. THE MAXIMUM ANNUAL FREQUENCY OF COLLAPSE, AF, SHALL BE TAKEN AS 0.0001.
VESSEL COLLISION LOADS SHALL BE CALCULATED IN ACCORDANCE WITH METHOD II DESCRIBED IN SECTION 3.14 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE AASHTO GUIDE SPECIFICATIONS AND COMMENTARY FOR VESSEL COLLISION DESIGN OF HIGHWAY BRIDGES.

DESIGN IMPACT FORCE SHALL BE 5,000 KIPS AT PYLON 29 AND 10,400 KIPS AT PYLON 30 AS RECOMMENDED IN "IMPACT LOADS OF VESSELS ON BRIDGE PIERS OF I-10 MOBILE RIVER CROSSING", DATED 12/06/2024.

10. DIFFERENTIAL SETTLEMENT

ALL MAINSPAN BRIDGE ELEMENTS SHALL BE CHECKED FOR DEMANDS IMPOSED BY DIFFERENTIAL SETTLEMENT, VALUES TBD.

11. CONSTRUCTION LOADS

THE FOLLOWING CONSTRUCTION LOADS SHALL BE CONSIDERED:

DL: DEAD LOAD OF STRUCTURE.

DIFF: DIFFERENTIAL LOAD SHALL BE TAKEN AS 2% OF DEAD LOAD APPLIED TO ONE CANTILEVER.

CLL: DISTRIBUTED CONSTRUCTION LIVE LOAD SHALL BE TAKEN AS 10 PSF ON ONE CANTILEVER AND PSF ON THE OTHER CANTILEVER, ACTING CONCURRENTLY.

CE: SPECIALIZED CONSTRUCTION EQUIPMENT: S-40 DERRICK + SLED: 200 KIPS EACH. REFER TO ERECTION MANUAL FOR OTHER LOADS.

IE: IMPACT LOAD FROM EQUIPMENT. REFER TO ERECTION MANUAL.

U: SEGMENT UNBALANCE SHALL BE TAKEN AS THE DEAD LOAD OF ONE SEGMENT OF THE ERECT BRIDGE.

A: ACCIDENTAL RELEASE OR APPLICATION OF ONE PRECAST DECK PANEL OR OTHER SUDDEN IMPACT FROM AN OTHERWISE STATIC LOAD OF A; IMPACT FORCE=2A.

WS: WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THESE CRITERIA.

THE LOAD MODIFIERS η_D, η_I AND η_R SHALL BE EQUAL TO 1.00 FOR THE CONSTRUCTION CONDITION.

EARTHQUAKE LOADS SHALL BE NOT CONSIDERED DURING CONSTRUCTION.

CONSTRUCTION LOAD COMBINATIONS AND LOAD FACTORS SHALL BE IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTIONS 5.14.2.3.3 AND 5.14.2.3.4

LOAD COMBINATIONS

LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS TABLES 3.4.1-1 AND 3.4.1-2.

WHEN THE EFFECTIVE (CRACKED) SECTIONS IS USED IN THE STRENGTH LIMIT STATE ANALYSIS, THE LOAD FACTOR FOR TU, CR AND SH SHALL BE 1.0.

THE EFFECTS OF STAY CABLE FORCE ADJUSTMENTS SHALL BE TREATED AS DEAD LOAD.

THE EFFECTS OF POST-TENSIONING, BOTH BEFORE AND AFTER LOSSES, INCLUDING SECONDARY EFFECTS IN STATICALLY INDETERMINATE SYSTEMS, SHALL BE TREATED AS LOCKED IN STRESSES (EL) AND INCLUDED IN LOAD COMBINATIONS PER AASHTO LRFD TABLE 3.4.1-1.

LOAD FACTORS AND LOAD COMBINATIONS FOR THE DESIGN OF THE STAY CABLES SHALL BE IN ACCORDANCE WITH THE POST-TENSIONING INSTITUTE "RECOMMENDATIONS FOR STAY-CABLE DESIGN, TESTING, AND INSTALLATION." THIS INCLUDES THE CABLE REPLACEMENT AND CABLE LOSS LOAD COMBINATIONS AS SPECIFIED IN C5.4 AND C5.5 RESPECTIVELY.

IN THE EVENT OF STAY CABLE REPLACEMENT, THE TWO LANES ADJACENT TO THE CABLE BEING REPLACED SHALL BE CLOSED TO TRAFFIC FOR THE DURATION OF THE CABLE REPLACEMENT PROCEDURE. ONLY A SINGLE CABLE SHALL BE REPLACED AT A TIME.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
GENERAL NOTES 2

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40023

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2" 1" SHEET REFERENCE 0

MATERIALS

1. CONCRETE

CONCRETE MEMBER'S DESIGN COMPRESSIVE STRENGTH F'c (28 DAYS) SHALL BE, U.N.O.:

	f'c (28 DAYS, PSI, UNO)
SUPERSTRUCTURE:	
PRECAST CONCRETE DECK PANELS	= 8,000
CAST-IN-PLACE JOINTS	= 8,000 (SHRINKAGE COMPENSATING MIX)
BARRIERS	= 5,000
SUBSTRUCTURE:	
PYLONS P29 P30	= 8,000 (56 DAYS)
TRANSITION PIERS P27 P32	= 5,000
TIE-DOWN PIERS P28 P31	= 5,000
CONCRETE PLUG IN PIPE PILES	= 5,000
PYLONS P29 P30 PILE CAPS	= 6,000
PIERS P27, P28, P31, P32	= 5,000

CONCRETE PLACEMENTS WITH MINIMUM DIMENSION GREATER THAN 5 FEET SHALL BE CONSIDERED MASS CONCRETE.
THE FOLLOWING SHALL BE CONSTRUCTED AS MASS CONCRETE:
P27, P32 COLUMNS AND CAP BEAMS, P28, P31 COLUMNS, PYLON 29 AND PYLON 30 FOOTINGS AND LIFTS 1, 2, 11, 12, 13.

2. REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

AASHTO MM31 (ASTM A615) REINFORCING STEEL GRADE 60 OR GRADE 80 SHALL BE USED FOR ALL STRUCTURAL ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
MECHANICAL COUPLERS SHALL BE CAPABLE OF DEVELOPING NOT LESS THAN 150% OF THE YIELD STRENGTH FOR GRADE 60 BARS AND NOT LESS THAT 125% OF THE YIELD STRENGTH FOR GRADE 80 BARS.
HEADED REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318-19 CHAPTER 25.

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS NOTED OTHERWISE. SPACING OF BARS IS FROM CENTER-TO-CENTER OF BARS.

UNLESS NOTED OTHERWISE, THE MINIMUM CLEAR COVER TO REINFORCING BARS SHALL BE:

SUPERSTRUCTURE:	
DECK: TOP REINFORCEMENT LAYER	= 2" (EXCLUSIVE OF OVERLAY)
DECK: BOTTOM REINFORCEMENT LAYER	= 1.5"
BARRIERS	= 2"
SUBSTRUCTURE:	
PIERS	= 3" EXTERIOR SURFACES
PYLONS	= 3.5" MIN TO TRANSVERSE REINFORCING, 2" MIN CROSS-TIE
PILE CAPS	= 3"
PIPE PILES	= 4" TO TRANSVERSE REINFORCING INCLUDING PIPE WALL THICKNESS

3. PRESTRESSING STEEL

STRAND TENDONS SHALL BE UNCOATED SEVEN WIRE LOW RELAXATION STRANDS CONFORMING TO THE REQUIREMENTS OF ASTM A416, GRADE 270.

STRAND DIAMETER SHALL BE 0.6" EXCEPT PRESTRESSING OF CONCRETE PILES. STRAND DIAMETER SHALL BE 0.5" FOR PRESTRESSING OF CONCRETE PILES

MODULUS OF ELASTICITY	= 28,500 KSI
MAXIMUM JACKING STRESS	= 243 KSI
ANCHOR SET	= 0.375"
WOBBLE	= 0.0002
FRICTION	= 0.23

POST-TENSIONING BARS CONFORM TO ASTM A722, GRADE 150 (TYPE II).

MODULUS OF ELASTICITY	= 30,000 KSI
MAXIMUM JACKING STRESS	= 135 KSI
ANCHOR SET	= 0.0625"

4. POST-TENSIONING DUCTS

CORRUGATED POLYPROPYLENE (PP) DUCT SHALL BE USED FOR POST-TENSIONING TENDONS IN THE DECK SLAB. CORRUGATED PE DUCT SHALL BE HIGH-DENSITY, VIRGIN POLYETHYLENE MATERIAL (HDPE) CONFORMING TO THE REQUIREMENTS OF ASTM D3350. CELL CLASSIFICATIONS 33443C TO 345544C.

5. STRUCTURAL STEEL AND BOLTS

STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE HPS 70W, HPS 50W OR 50W AND SHALL MEET THE CHARPY CVN REQUIREMENTS OF ZONE 2. STEEL GRADES AS FOLLOWS:

EDGE GIRDERS (FLANGES, WEBS, AND SPLICE PLATES):	HPS 70W
FLOORBEAMS (FLANGE, WEBS,SPLICE PLATES AND STIFFENERS):	50W
DECK/GIRDER STAY ANCHORAGE:	HPS 50W
STRINGERS, BAFFLE PLATES:	50W
INSPECTION WALKWAYS:	50W
PYLON STAY ANCHOR BOXES:	50W
STEEL DRIVEN PILES:	50W
STEEL PIPE PILE:	ASTM A252, GRADE 3

EDGE GIRDERS SHALL BE CONSIDERED SYSTEM REDUNDANT MEMBERS (SRM) AND REQUIRE FRACTURE CRITICAL (FC) FABRICATION REQUIREMENTS PER AWS D1.5M/D1.5 BRIDGE WELDING CODE CLAUSE 12. STEEL SHALL MEET THE CHARPY CVN REQUIREMENTS OF ZONE 2.

ALL STRUCTURAL STEEL SHALL BE COATED IN ACCORDANCE WITH SPECIAL PROVISIONS AS FOLLOWS:

EDGE GIRDERS - ZINC METALLIZED WITH SEALER AND TOP COAT
DECK LEVEL STAY ANCHORS - ZINC METALLIZED OR GALVANIZED, TBD
BALLAST SUPPORT BEAMS - ZINC METALLIZED WITH SEALER AND TOP COAT
FOR EXPOSED SURFACES.
FOR SURFACES IN CONTACT WITH CONCRETE, PROVIDE A ZINC-PRIMER MIST COAT.
FLOORBEAMS - ZINC METALLIZED WITH SEALER AND TOP COAT
DECK PANEL SUPPORT BEAMS - 3 COAT PAINT
WIND BAFFLE PLATES - 3 COAT PAINT
PYLON STAY ANCHOR BOXES - 2 COAT PAINT
LUD BRACKETS - ZINC METALLIZED WITH SEALER AND TOP COAT (EXTERIOR), 2 COAT PAINT INTERIOR.
MISC STEEL (SHEAR KEYS, STAY TOP FLANGE BRACING, ETC) - 3 COAT PAINT.

BOLTS SHALL BE ASTM F3125 GRADE A490, TYPE 3 UNLESS NOTED OTHERWISE. ALL EDGE GIRDER AND FLOORBEAM SPLICES SHALL BE 1" DIAMETER IN 1-⅛" HOLES, OTHER DIAMETERS AS NOTED ON PLANS.

ALL FAYING SURFACES SHALL BE FURNISHED WITH A CLASS B SURFACE CONDITION.

BOLTED CONNECTIONS SHALL BE DETAILED WITH THREADS EXCLUDED FROM THE SHEAR PLANE UNLESS NOTED OTHERWISE.

UNLESS NOTED OTHERWISE ON THE PLANS, THE MATERIAL FOR ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM FI554 <GRADE 150>. ANCHOR BOLTS, ANCHOR PLATES, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

SHEAR CONNECTORS SHALL CONFORM TO AASHTO M169 GRADES 1015, 1018 OR 1020, EITHER SEMI OR FULY KILLED AND HAVE A SPECIFIED MINIMUM YIELD AND TENSILE STRENGTH OF 5O KSI AND 60 KSI, RESPECTIVELY.

6. STAY CABLES

STAY CABLES SHALL CONSIST OF 0.62" DIAMETER WELLNESS LOW-RELAXATION STRANDS CONFORMING TO THE REQUIREMENTS OF ATM A416, GRADE 270. THE STRANDS SHALL BE INDIVIDUALLY SHEATHED AND COATED WITH A CORROSION-INHIBITING MATERIAL.

EACH STAY CABLE SHALL BE PROTECTED WITH AN UNGROUTED HEAVY DUTY CO-EXTRUDED COLORED POLYETHYLENE (HDPE) PIPE CONFORMING TO THE REQUIREMENTS OF ASTM F714. THE RATIO OF OUTSIDE DIAMETER TO MINIMUM WALL THICKNESS SHALL BE PER PTI SECTION 3.5.3.3. SPIRAL BEADS SHALL BE WELDED TO THE PIPE OUTSIDE SURFACE TO SUBDUE RAIN/WIND VIBRATIONS.

EACH STAY SHALL INCLUDE (2) ADDITIONAL REFERENCE STRANDS (CONSIDERED FOR STIFFNESS BUT NOT CAPACITY).

ANCHORAGES SHALL BE SIZED TO ACCOMODATE 5% ADDITIONAL FUTURE STRANDS (RUNNING AVERAGE OVER 3 CONSECUTIVE STAYS, REFERENCE STRANDS INCLUDED).

DAMPERS SHALL BE PROVIDED FOR ALL STAY CABLES.

7. DECK OVERLAY

DECK OVERLAY SHALL BE POLYESTER POLYMER CONCRETE (PPC) AT 1-½" THICKNESS AND A 25 YEAR MINIMUM SERVICE LIFE, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FINAL DECK SURFACE FINISHING SHALL BE IN ACCORDANCE WITH ALDOT STANDARD SPECIFICATION 510.03.06c. EXPOSED COLD JOINTS AT EDGE GIRDER CAST-IN-PLACE POURS SHALL BE SEALED WITH METHACRYLATE PENETRATING SEALER.

8. EXPANSION JOINTS

STEEL FOR EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 50W.

9. BEARINGS

ALL VERTICAL AND TRANSVERSE BEARINGS ARE DISC BEARINGS.

10. BEVELED EDGES

¾" CHAMFERS SHALL BE TO BE PROVIDED ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE NOTED.

11. TOLERANCES

CONSTRUCTION TOLERANCES OF CONCRETE SHALL NOT EXCEED THE FOLLOWING LIMITS:

PLAN LOCATION OF CORNERS OF PYLON PILE CAP:	±1"
PLAN LOCATION OF CORNERS OF PYLON LEG BASE (PYLON LEG LIFT 1):	±1"
ELEVATIONS OF ALL STRUCTURAL ELEMENTS (NOT LIFT ELEVATIONS):	±½"
VARIATION FROM PLUMB OF ALL STRUCTURAL ELEMENTS OVER A LIFT HEIGHT:	1:45O (BUT NOT MORE THAN 1")
CROSS SECTIONAL DIMENSIONS UP TO 10 FEET:	±½"
CROSS SECTIONAL DIMENSIONS ABOVE 10 FEET:	±¾"
CROSS SECTIONAL THICKNESS UP TO 2 FEET:	±¼"
CROSS SECTIONAL THICKNESS ABOVE 2 FEET:	±⅜"

STANDARD FABRICATING AND PLACEMENT TOLERANCES FOR REINFORCING BARS SHALL BE PER ACI 117-10 SECTION 2.1 OR THE FOLLOWING, WHICHEVER IS MORE STRINGENT:

CONCRETE COVER TO REINFORCING STEEL:	±½"
PYLON LEG STARTER DOWEL BARS:	±½"
PILE CAP MAT STEEL:	±½"
LOCATION OF VERTICAL AND HORIZONTAL REINFORCING BARS IN PYLONS:	±1"

PYLON ERECTION TOLERANCE:	
MAXIMUM TRANSVERSE SINUSOIDAL OUT - OF - STRAIGHTNESS DEVIATION AT MID-HEIGHT:	+/- H/1500
MAXIMUM OUT - OF - PLUMB IMPERFECTION AT TOP OF PYLON:	6"

FOR STRUCTURAL STEEL FABRICATION TOLERANCES (DECK STEEL, PYLON ANCHOR BOXES), SEE THE STRUCTURAL STEEL SPECIAL SPECIFICATIONS (UNDER DEVELOPMENT).

STANDARD DRAWINGS AND NOTES

BRIDGE SPECIAL PROJECT DRAWINGS:

STANDARD BRIDGE NOTES	BRIDGE SPECIAL PROJECT DWG. NO. SBN-1
BRIDGE STANDARD DETAILS	BRIDGE SPECIAL PROJECT DWG. NO. SBD-1
BRIDGE BARRIER RAIL (MODIFIED 54" CSF MEDIAN)	BRIDGE SPECIAL PROJECT DWG. NO. BBR-M(54)

STANDARD BRIDGE NOTES:

108'-0" MAX ROADWAY WIDTH WITH PA BRIDGE BARRIER AND STANDARD BARRIER RAILS.

THE FOLLOWING NUMBERS REFER TO GENERAL NOTES AS LISTED ON BRIDGE SPECIAL PROJECT DWG. NO. SBN-1:

STANDARD BRIDGE NOTES:

(1) 2022 (2) 9TH, JAN 2023, HL-93 (3) (4)
(5) BENTS - 403 TONS PYLONS - 2496 TONS (6)
(10) (11) (13) (14) (15) (16) (18) (20)
(22) (23) (24) (25) (27) (28) (29) (30) (31)

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE | Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
GENERAL NOTES 3

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3/31/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40024

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

0 1" SHEET REFERENCE 2"

RAILROAD NOTES

1. ALL WORK ON, OVER, UNDER, OR ADJACENT TO CSXT RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE CSXT SPECIAL PROVISIONS, WHICH CAN BE FOUND WITHIN THE CSXT PUBLIC PROJECTS MANUAL, AVAILABLE AT: HTTPS://WWW.CSX.COM/INDEX.CFM/LIBRARY/FILES/ABOUT-US/PROPERTY/PUBLIC-PROJECT-MANUAL/.

2. NO WORK SHALL TAKE PLACE WITHIN 50 FEET OF THE CENTERLINE OF THE CSXT TRACK WITHOUT A RAILROAD FLAGMAN BEING PRESENT. PROVIDE THE CSXT FIELD REPRESENTATIVE WITH AT LEAST THIRTY (30) BUSINESS DAYS ADVANCE NOTICE OF BEGINNING WORK WITHIN THIS AREA TO ALLOW FOR THE SCHEDULING OF THE RAILROAD FLAGMAN.

3. THE CSXT ENGINEER SHALL BE KEPT AWARE OF THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL PROVIDE TIMELY COMMUNICATION TO THE CSXT ENGINEER WHEN SCHEDULING THE WORK SUCH THAT THE CSXT ENGINEER MAY BE PRESENT DURING THE WORK. THE CONTRACTOR'S SCHEDULE SHALL NOT DICTATE THE WORK PLAN REVIEW SCHEDULE, AND FLAGGING SHALL NOT BE SCHEDULED PRIOR TO RECEIPT OF AN ACCEPTED WORK PLAN.

4. CONSTRUCTION CLEARANCES SHALL BE SUBJECT TO APPROVAL BY CSXT. TYPICALLY, REDUCTION IN CLEARANCE FOR CONSTRUCTION IS NOT PERMITTED.

5. THE CONTRACTOR SHALL MAINTAIN ALL DITCHES AND DRAINAGE STRUCTURES FREE OF SILT OR OTHER OBSTRUCTIONS THAT MAY RESULT FROM THEIR OPERATIONS. THE CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL LEAVE CSXT PROPERTY IN NEAT CONDITION, SATISFACTORY TO THE CSXT REPRESENTATIVE.

6. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN A GEOTEXTILE FABRIC BALLAST PROTECTION SYSTEM TO PREVENT DEBRIS AND FINES FROM FOULING THE BALLAST. THE BALLAST PROTECTION SYSTEM SHALL EXTEND 25 FEET BEYOND THE OUTER LIMITS OF THE BRIDGE ON BOTH SIDES.

7. THE CONTRACTOR MAY NOT USE CSXT RIGHT-OF-WAY FOR STORAGE OF MATERIALS OR EQUIPMENT DURING CONSTRUCTION WITHOUT PRIOR APPROVAL FROM CSXT.

8. CSXT SHALL BE FURNISHED AS-BUILT DRAWINGS SHOWING ACTUAL CLEARANCES AS CONSTRUCTED PRIOR TO PROJECT COMPLETION AND CLOSE-OUT.

9. THE CONTRACTOR SHALL REFERENCE THE CSXT CONSTRUCTION SUBMISSION CRITERIA FOR CONSTRUCTION RELATED SUBMITTAL REQUIREMENTS WHILE WORKING ON, OVER, UNDER OR ADJACENT TO CSXT RIGHT-OF-WAY. THE CONSTRUCTION SUBMISSION CRITERIA CAN BE FOUND WITHIN THE PUBLIC PROJECT MANUAL. THE CONTRACTOR(S) IS REQUIRED TO SUBMIT A DETAILED WORK PLAN FOR REVIEW AND APPROVAL BY CSXT, INCLUDING BUT NOT LIMITED TO THE BELOW ITEMS:

   A) ACCESS MEANS AND METHODS
   B) EMERGENCY ACTION PLAN
   C) GENERAL MEANS AND METHODS
   D) PE STAMPED FOUNDATION INSTALLATION
   E) PE STAMPED SHEETING/SHORING
   F) PE STAMPED BEAM/GIRDER ERECTION
   G) PE STAMPED PRE-CAST DECK PANEL ERECTION
   H) PROTECTIVE FENCING INSTALLATION
   I) ROW RESTORATION

10. THE CONTRACTOR SHALL NOTIFY AND COORDINATE THEIR WORK WITH THE ON-SITE CSXT REPRESENTATIVE.

11. "ONE CALL" SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATION 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 DISTURBANCES 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.

12. ALL SOIL EXCAVATED WITHIN CSXT'S RAILROAD RIGHT-OF-WAY SHALL REMAIN ON CSXT'S RIGHT-OF-WAY. FOR ANY EXCAVATED SOIL THAT REQUIRES OFF-SITE DISPOSAL, THE LICENSEE IS REQUIRED TO USE ONLY CSXT APPROVED LABORATORIES, TRANSPORTERS, AND DISPOSAL FACILITIES THAT ARE IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL LAWS AND CSXT'S POLICIES AND PROCEDURES. SOIL RESULTING FROM EXCAVATION OUTSIDE OF CSXT'S RAILROAD RIGHT-OF-WAY OR RAILROAD OWNED PROPERTY SHALL NOT BE BROUGHT ONTO CSXT'S PROPERTY AND THEREFORE MUST BE STORED OFF CSXT PROPERTY. CSXT SHALL NOT INCUR ANY COSTS RELATED TO THE DISPOSAL OF SOIL GENERATED DUE TO CONSTRUCTION ACTIVITY RELATED TO THIS PROJECT. FOR THE CSXT SOIL AND WATER MANAGEMENT POLICY, PLEASE SEE THE CSXT PUBLIC PROJECT MANUAL LOCATED HERE: HTTPS://WWW.CSX.COM/INDEX.CFM/LIBRARY/FILES/ABOUT-US-PROPERTY/PUBLIC-PROJECT-MANUAL/.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE		

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: DATE: 05/12/2025

BRIDGE SHEET NO. OF

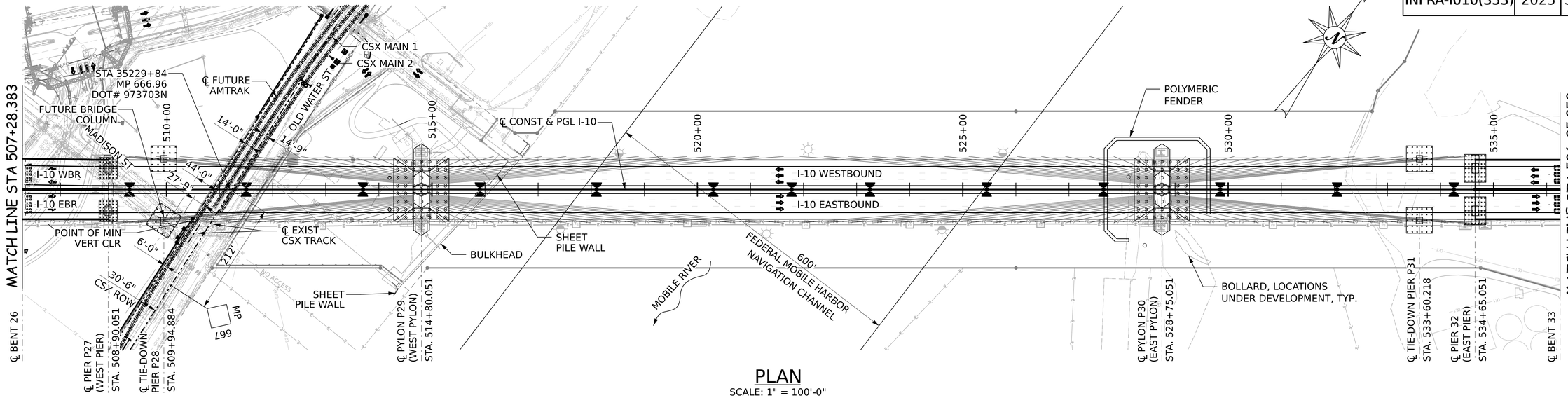
SHEET TITLE
MAIN SPAN BRIDGE
RAILROAD NOTES

MRB-S04-BR-40024.dgn
Scott.Strednak
1:20:54 PM
5/13/2025

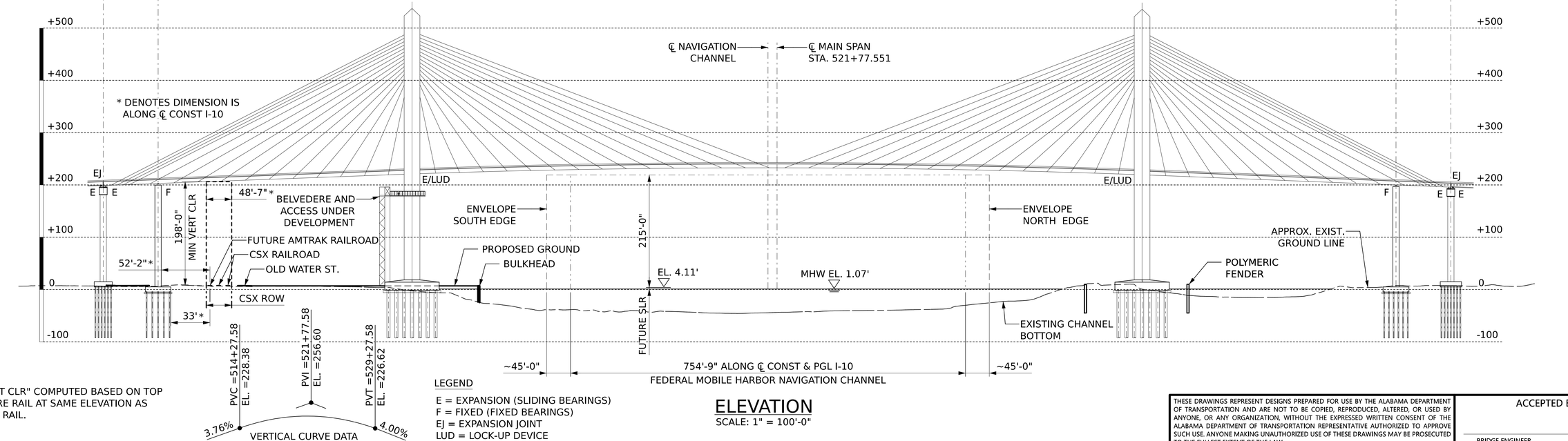
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40101

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



PLAN
SCALE: 1" = 100'-0"



NOTE:
"MIN VERT CLR" COMPUTED BASED ON TOP OF FUTURE RAIL AT SAME ELEVATION AS EXISTING RAIL.

LEGEND
E = EXPANSION (SLIDING BEARINGS)
F = FIXED (FIXED BEARINGS)
EJ = EXPANSION JOINT
LUD = LOCK-UP DEVICE

ELEVATION
SCALE: 1" = 100'-0"

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
GENERAL PLAN & ELEVATION

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Scott.Strednak
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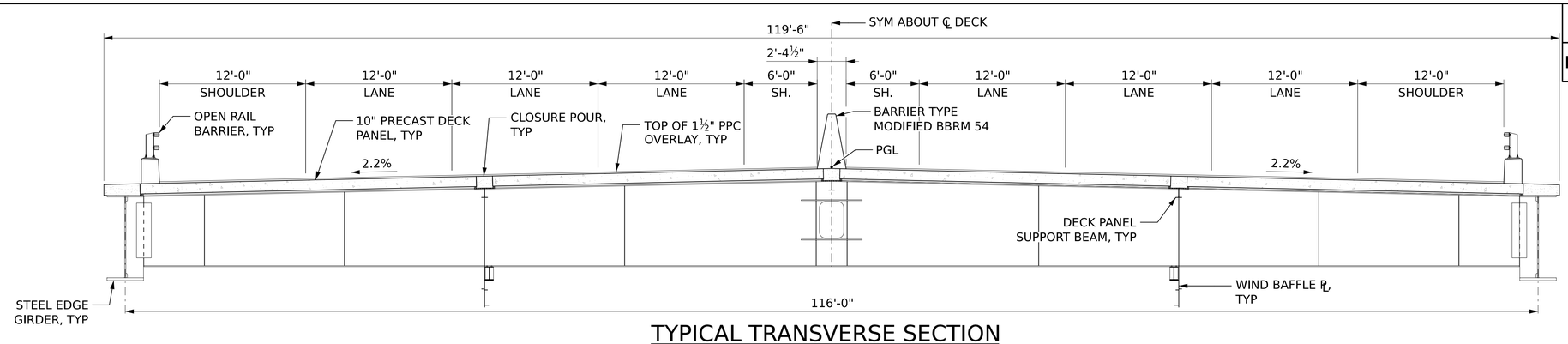
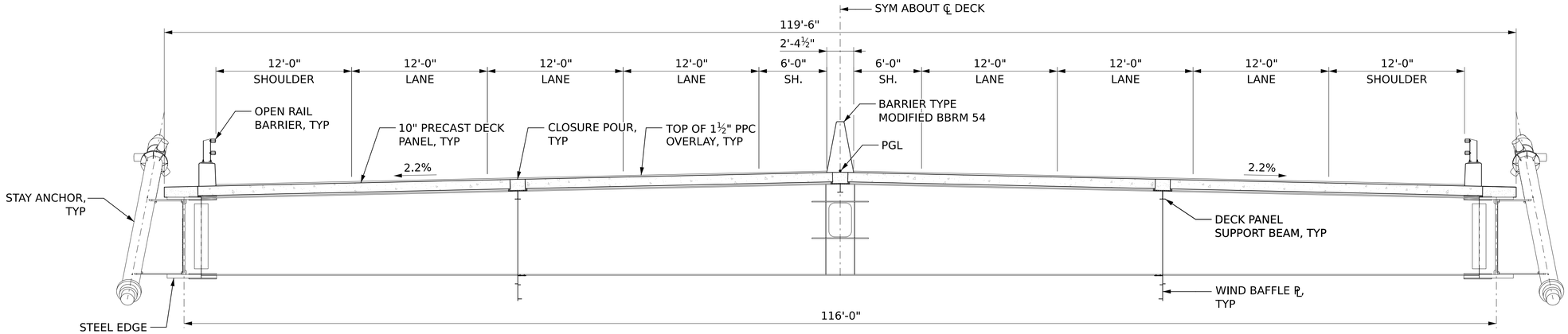
5/12/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40105



TYPICAL TRANSVERSE SECTION

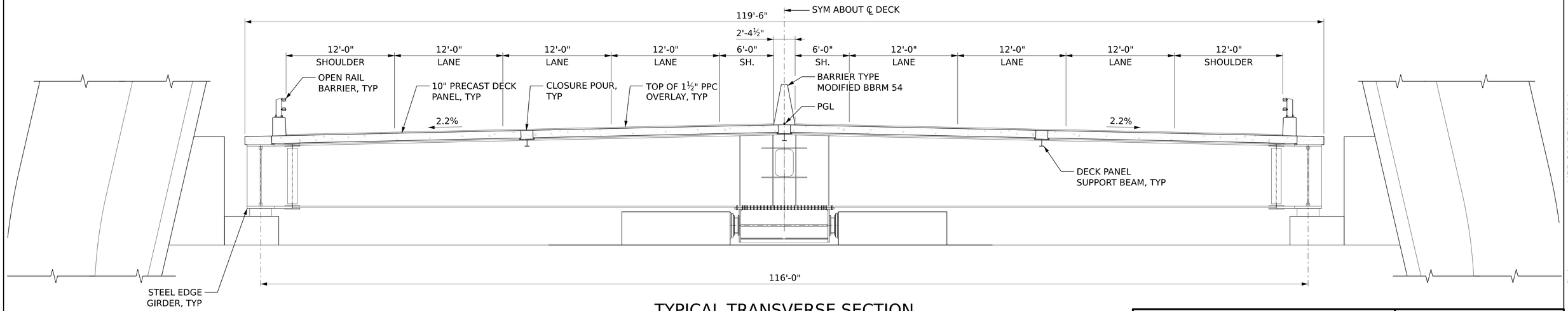
SCALE: 3/16" = 1'-0"



TYPICAL TRANSVERSE SECTION

SCALE: 3/16" = 1'-0"

(SHOWN AT STAY)



TYPICAL TRANSVERSE SECTION

SCALE: 3/16" = 1'-0"

(SHOWN AT PYLON)

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

TYPICAL TRANSVERSE SECTIONS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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4/2/2025

2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40115

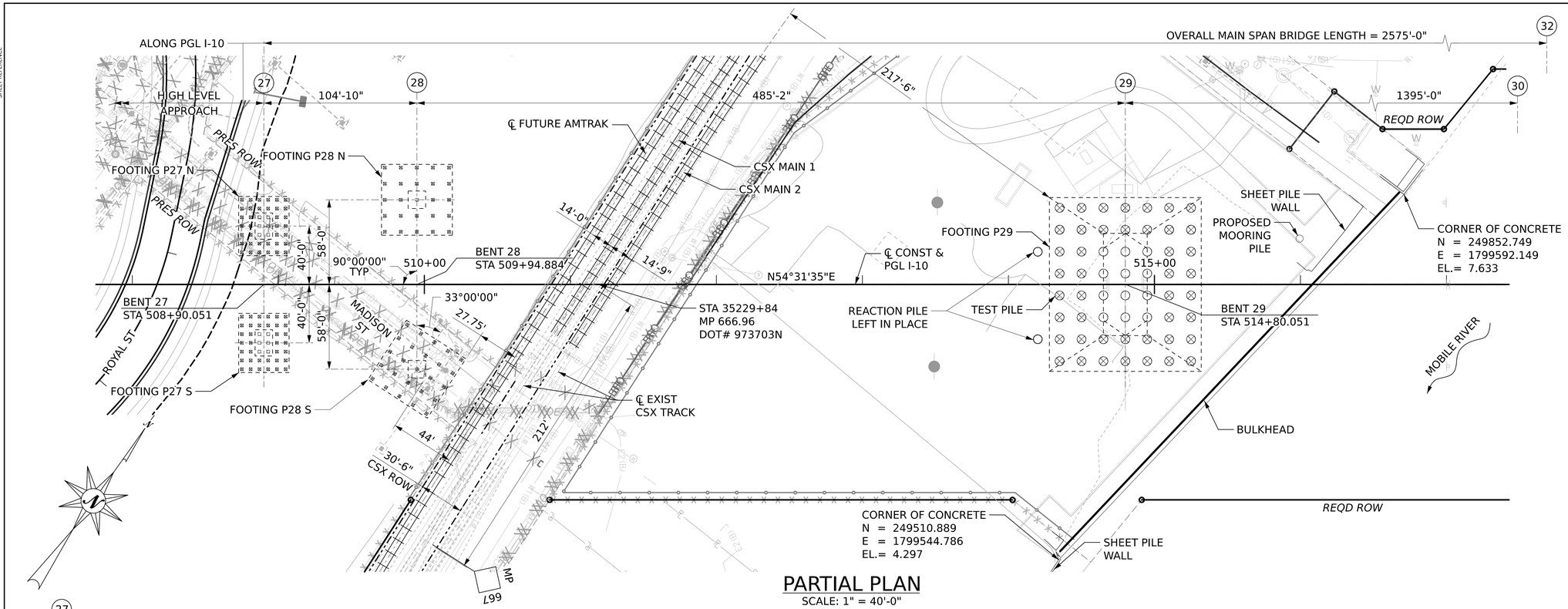
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

NOTES:

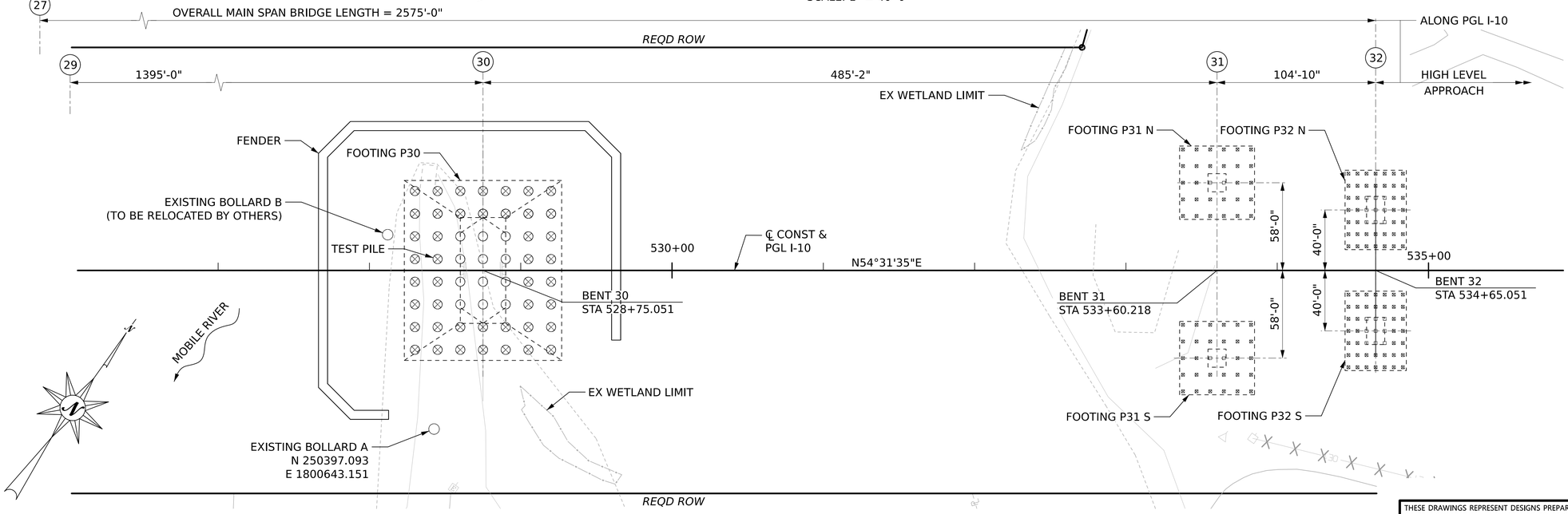
1. PILES FOR FOUNDATIONS P29 AND P30 ARE 6' CONCRETE FILLED STEEL PIPES. 24" SQ PRESTRESSED CONCRETE PILES EVERYWHERE ELSE. SEE "FOUNDATION PILE DETAILS" SHEETS FOR PILE DETAILS AND PILE DATA. ALL PILES ARE PLUMB.
2. FOR FOOTING DETAILS, SEE "FOUNDATION DIMENSIONS" SHEETS.
3. TEST PILES ARE PRODUCTION PILES.

LEGEND:

- ☒ DENOTES 24" SQ PRESTRESSED TYPE A PILE
- ☐ DENOTES 24" SQ PRESTRESSED TYPE B PILE
- ⊗ DENOTES 6' CONCRETE FILLED PIPE TYPE A PILE
- ○ DENOTES 6' CONCRETE FILLED PIPE TYPE B PILE



PARTIAL PLAN
SCALE: 1" = 40'-0"



PARTIAL PLAN
SCALE: 1" = 40'-0"

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL
B	KIE	07/02/2025	90% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

90%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 07/02/2025

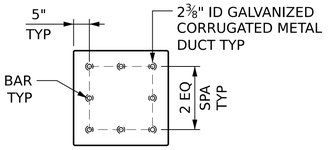
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
FOUNDATION LAYOUT

MRB-S04-BR-40115.dgn
Scott.Strednak
10:39:05 AM
5/12/2025

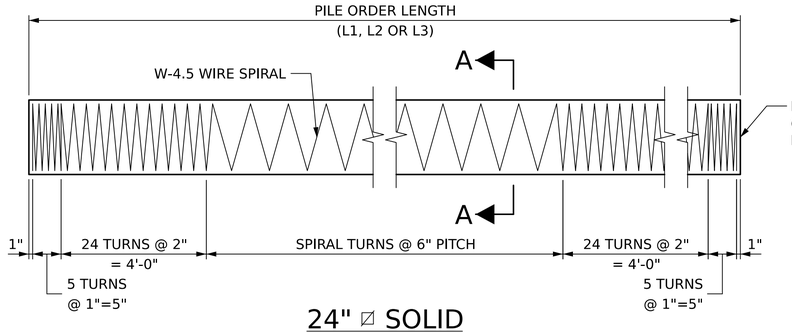
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40116

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

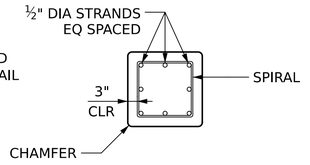


SECTION B-B

NOT TO SCALE
(PILE REINFORCEMENT NOT SHOWN FOR CLARITY)

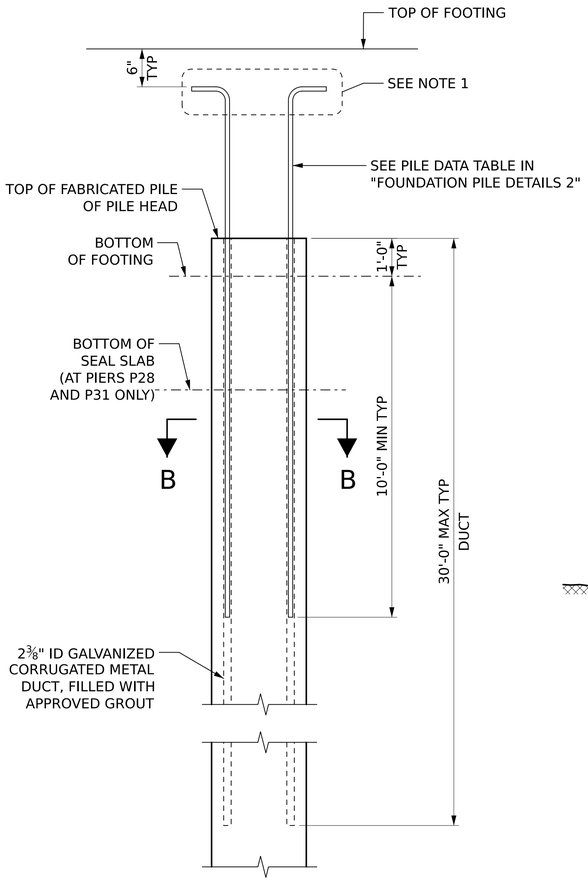


24" ⍁ SOLID PRECAST-PRESTRESSED CONCRETE PILES



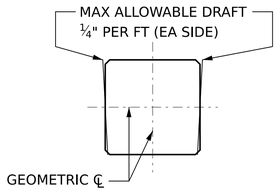
SECTION A-A

- CLEARANCES MEASURED AT CENTER LINE OF PILE.
- STRAND PROTECTION: WHEN STRANDS ARE CUT FLUSH WITH END SURFACES OF PILE, THEY SHALL BE PAINTED WITH AND APPROVDED EPOXY IMMEDIATELY AFTER CUTTING.

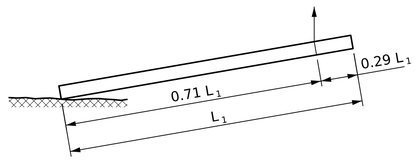


PRECAST PILE HEAD CONNECTION DOWEL DETAILS

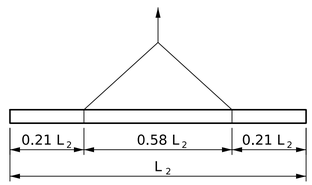
NOT TO SCALE
(SEE PILE DATA TABLE FOR THE DOWEL REQUIREMENT)



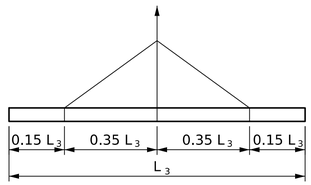
FORM DRAFT DETAIL



1-POINT PICK-UP



2-POINT PICK-UP



3-POINT PICK-UP

PICK-UP DETAILS

NOTE : PICK-UP POINTS TO BE PLAINLY MARKED ON PILES

PILE INFORMATION

PILE SIZE (in)	SECTION PROPERTIES				SQUARE SPIRAL LAYOUTS					
	AREA (in^2)	SECTION MODULUS (in^3)	WEIGHT PER FOOT (lb/ft)	CHAMFER (in)	NO. OF STRANDS	PRESTRESS IN CONCRETE (psi)		MAX CASTING LENGTH (ft)		
						AT RELEASE	AT 90 DAYS	L_1	L_2	L_3
24 SOLID	576	2304	600	1½"	24	1227	1154	86.7	122.7	172.0

GENERAL NOTES:

1. OPTIONAL USE OF HEADED BARS INSTEAD OF HOOKS PERMITTED FOR PILE TYPE A. STRAIGHT BARS PERMITTED ONLY FOR PILE TYPE B. FOR HEADED BAR DETAILS SEE SEE "PYLON 29 & 30 MISCELLANEOUS DETAILS" SHEET.
2. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
3. CONCRETE IN PILE: THE CONTRACTOR SHALL DESIGN AND SUBMIT FOR APPROVAL A CONCRETE MIX WITH A MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 6000 PSI AT 28 DAYS. CONCRETE STRENGTH AT THE TIME OF TRANSFER OF PRESTRESSED FORCE SHALL BE 4500 PSI OR GREATER.
4. PRESTRESSING STEEL: PRETENSIONED REINFORCEMENT SHALL BE ½" DIA. SEVEN-WIRE, UNCOATED LOW-RELAXATION STRANDS GRADE 270 AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 203. AN INITIAL TENSION OF 30,975 LBS. SHALL BE APPLIED TO EACH STRAND.
5. REINFORCING STEEL: REINFORCING STEEL SHALL BE DEFORMED STEEL BARS, GRADE 60 AND SHALL MEET THE REQUIREMENTS OF AASHTO M 31.
6. SPIRAL REINFORCING STEEL: SPIRAL REINFORCEMENT SHALL BE SIZE W-4.5 COLD-DRAWN STEEL WIRE AND SHALL CONFORM TO AASHTO M 336.
7. FABRICATION TOLERANCES: MANUFACTURE OF THE PILING AND FABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE DETENSIONING PROCEDURE SHALL BE SUBMITTED TO THE EOR FOR APPROVAL.
8. CHAMFERS AND CORNERS: ALL EXPOSED CONCRETE CORNERS SHALL HAVE 1½ "CHAMFERS. A 1'' RADIUS CURVE WILL BE PERMITTED IN LIEU OF CHAMFERS SHOWN ABOVE. HOWEVER, ALL BENT PILES FURNISHED SHALL BE OF SAME CONFIGURATION.
9. PICK-UP AND HANDLING: MAXIMUM LENGTHS FOR PICK-UP HAVE BEEN DETERMINED USING THE FOLLOWING STRESS ASSUMPTIONS:

   LOADING: 1½ TIMES FULL DEAD LOAD. ALLOWABLE TENSILE STRESS EQUALS 0.19√ f'c KSI. THIS STRESS AND LOADING CRITERIA ARE BASED ON CAREFUL HANDLING OF THE PILE. ROTATION OF PILE IN THE SLING IS TO BE PREVENTED UNTIL PILE IS IN VERTICAL POSITION. PICK-UP POINTS FOR ALL PILES TO BE CLEARLY MARKED ON PILE. PICK-UP POINTS SHOWN MAY BE MODIFIED FOR TRANSPORTATION PURPOSES PROVIDED THE TENSILE STRESS BASED ON ABOVE LOADING CRITERIA DOES NOT EXCEED 0.19√ f'c KSI. THE MODIFIED PICK-UP POINTS SHALL BE SENT TO THE ENGINEER FOR REVIEW.

   PICK-UP DEVICES: CAST-IN-PLACE LOOPS MAY BE USED AS PICK-UP DEVICES FOR PRESTRESSED PILES. FOR PILE ABUTMENTS AND FOR PILE FOOTINGS THAT ARE TO BE CONSTRUCTED BELOW GROUNDLINE, THE FOLLOWING SHALL APPLY: THE LOOPS SHALL BE CUT OFF FLUSH WITH FACE OF THE PILE AND EXPOSED SURFACES OF THE LOOPS SHALL BE COATED WITH AN APPROVED EPOXY. FOR PILE BENTS AND FOR PILE FOOTINGS THAT ARE TO BE CONSTRUCTED ABOVE POOL (WATERLINE), THE FOLLOWING SHALL APPLY: A 3''x3'' BY 1½'' DEEP RECESS (BLOCKOUT) SHALL BE PROVIDED AT EACH LOOP PROTRUSION. THE LOOPS SHALL BE CUT OFF FLUSH WITH THE RECESSED FACE OF THE PILE AND THE RECESS SHALL BE FILLED WITH AN APPROVED EPOXY. THE EPOXY SHALL OBTAIN THE 28-DAY STRENGTH SPECIFIED FOR THE PILE PRIOR TO DRIVING THE PILE. THE TYPE OF PICK-UP DEVICE TO BE USED BY THE CONTRACTOR SHALL BE CLEARLY SHOWN ON THE PRESTRESSED CONCRETE PILE SHOP DRAWINGS.
10. FOR UPLIFT PILE DOWELS, HOLES SHALL BE CLEANED PRIOR TO SETTING DOWEL BARS AND SHALL BE FREE OF DUST, OIL, WATER AND OTHER CONTAMINENTS. DOWEL BARS SHALL BE SET USING AN APPROVED EPOXY.
11. SHIPPING: PILING SHALL BE HELD AT THE PLANT FOR A MINIMUM OF 21 DAYS PRIOR TO SHIPPING. PILING SHALL NOT BE TRANSPORTED UNTIL THE MINIMUM 28 DAY COMPRESSIVE CONCRETE STRENGTH IS OBTAINED AND VERIFIED BY TEST CYLINDERS.
12. DRIVING: PILES SHALL BE DRIVEN TO AT LEAST THE MINIMUM TIP ELEVATION AS SHOWN ON CONTRACT PLANS UNLESS OTHERWISE DIRECTED BY THE EOR.
13. BUILD-UP: THE USE OF A BUILD-UP (DRIVING OR NON-DRIVING) SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. CONCRETE SHALL BE THE SAME JOB MIX AS THE PRESTRESS CONCRETE.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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COUNTY(S)
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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
FOUNDATION
PILE DETAILS 1

MRB-S04-BR-40116.dgn
Brad.Shepard
5:04:48 PM
1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40117

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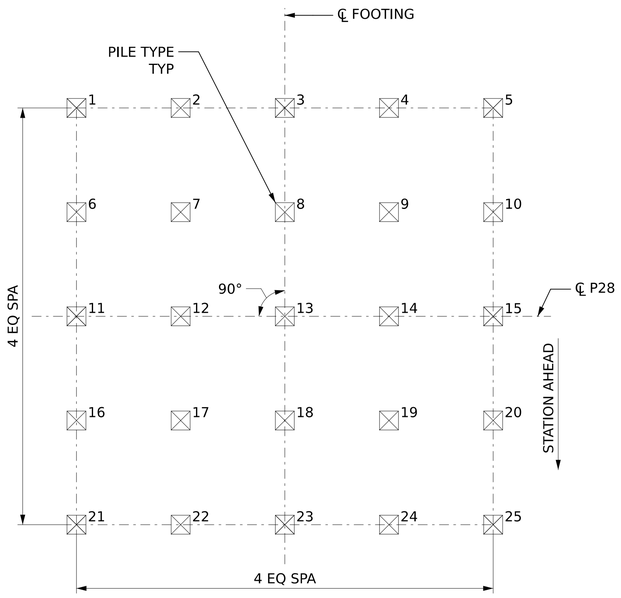
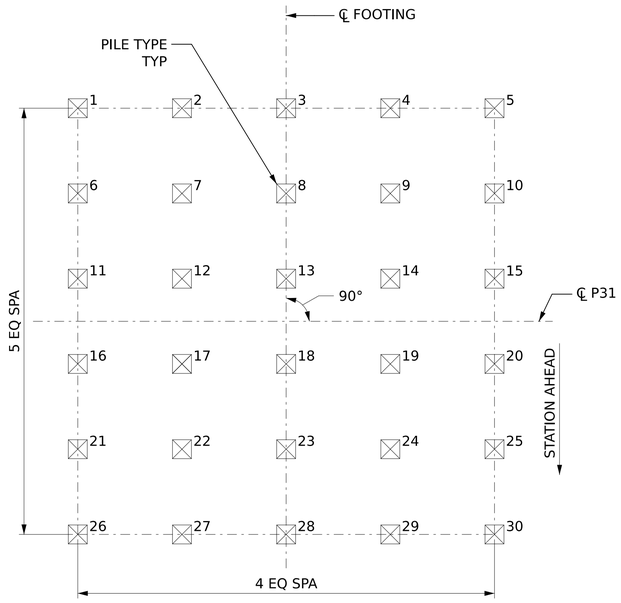


P28 N PILE LAYOUT
NOT TO SCALE



P31 N/S PILE LAYOUT
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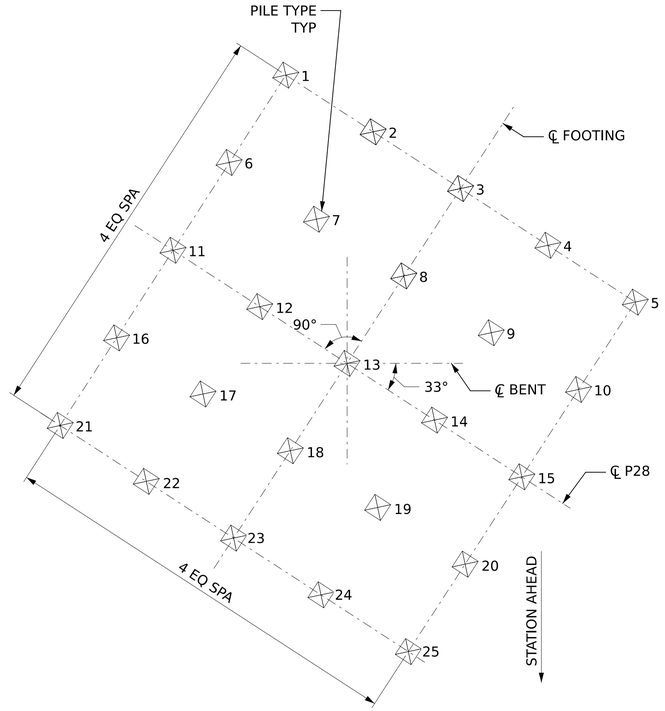


P28 S PILE LAYOUT
NOT TO SCALE

PILE DATA TABLE		
PIER OR BENT NUMBER	PILE TYPE	
	A	B
P27	8 #11 DOWELS	8 #9 DOWELS
P28	8 #11 DOWELS	–
P31	8 #11 DOWELS	–
P32	8 #11 DOWELS	8 #9 DOWELS

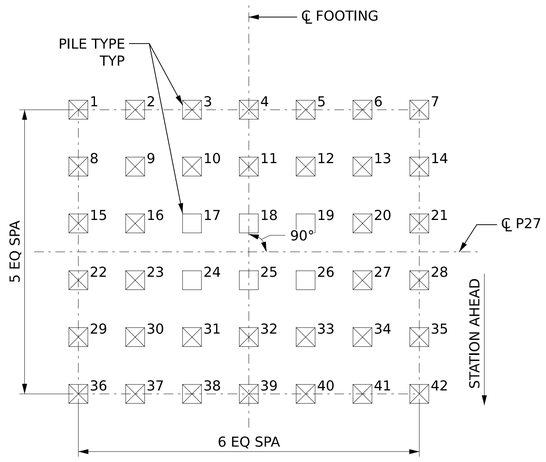
NOTES:

1. OPTIONAL USE OF HEADED BARS INSTEAD OF HOOKS PERMITTED FOR PILE TYPE A. STRAIGHT BARS PERMITTED ONLY FOR PILE TYPE B.
2. FOR PRECAST PILE REINFORCEMENT DETAILS, SEE "FOUNDATION PILE DETAILS 1" SHEET.
3. PILE TIP ELEVATIONS AND PILE LENGTHS ARE BASED ON EARLY WORKS SOIL EXPLORATIONS MB-01, MB-02, MB-02A, WHLA-03 AND HLA-12. THE BOTTOM OF PILE CAP ELEVATIONS OF THE TRANSITION PIER ARE ASSUMED TO BE +5 FT AND AT TIE-DOWN PIERS ARE ASSUMED TO BE -5 FT.
4. FOR ADDITIONAL PILE DETAILS SEE "PIER P27 AND P32 FOUNDATION DIMENSIONS" AND "PIER P28 AND P31" FOUNDATION DIMENSIONS" SHEETS.
5. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY PILE INSTALLATION ACTIVITIES.

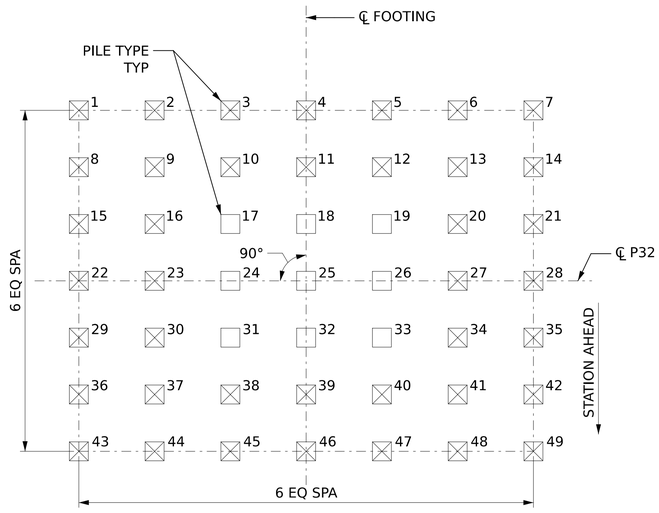
LEGEND:

PILE - TYPE A

PILE - TYPE B



P27 N/S PILE LAYOUT
NOT TO SCALE



P32 N/S PILE LAYOUT
NOT TO SCALE

TABLE 1: INSTALLATION AND DESIGN CRITERIA										
FOUNDATION		PILE SIZE TYPE	PILE TIP ELEVATION (SEE NOTE 3) "FT"	PILE LENGTH (SEE NOTE 3) "FT"	NOMINAL BEARING RESISTANCE "TONS"	NOMINAL UPLIFT RESISTANCE "TONS"	MIN. TIP ELEVATION "FT" *	STRENGTH LIMIT STATE FACTORED DESIGN LOAD		DOWNDRAG "TONS"	ϕ COMPRESSION /UPLIFT
								BEARING "TONS"	UPLIFT "TONS"		
27	NORTH	24" SQ. PPC DRIVEN PILE	-110	116	841	553	-71	404	117	N/A	0.585/0.450
	SOUTH		-110	116	841	553	-71	404	117	N/A	0.585/0.450
28	NORTH		-110	106	841	553	-78	396	51	N/A	0.585/0.450
	SOUTH		-110	106	841	553	-78	396	51	N/A	0.585/0.450
31	NORTH		-110	106	611	323	-88	312	32	N/A	0.585/0.450
	SOUTH		-110	106	611	323	-88	312	32	N/A	0.585/0.450
32	NORTH		-110	116	611	323	-79	309	37	N/A	0.585/0.450
	SOUTH		-110	116	611	323	-79	309	37	N/A	0.585/0.450

* VALUES SHOWN ARE FOR LATERAL STABILITY ONLY.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
FOUNDATION
PILE DETAILS 2

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Brad.Shepard
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40118

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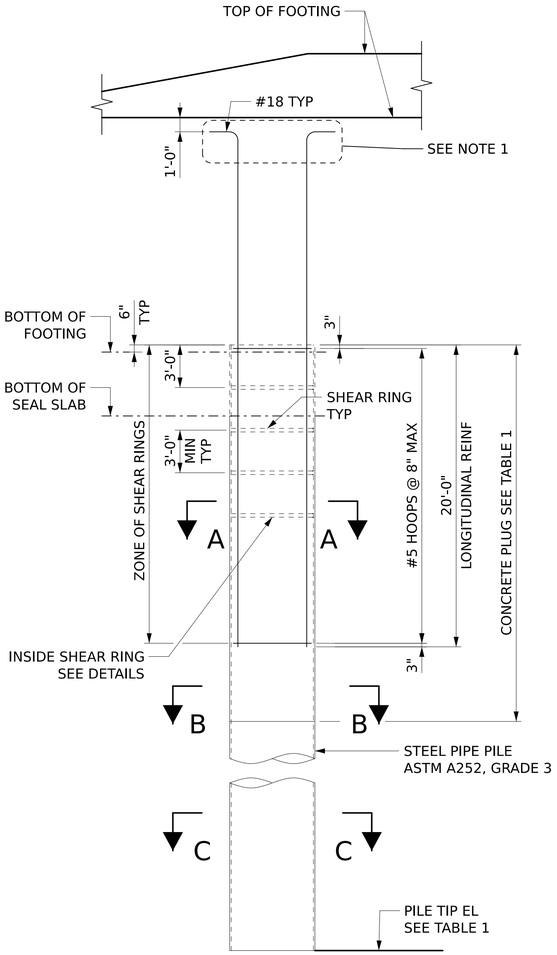
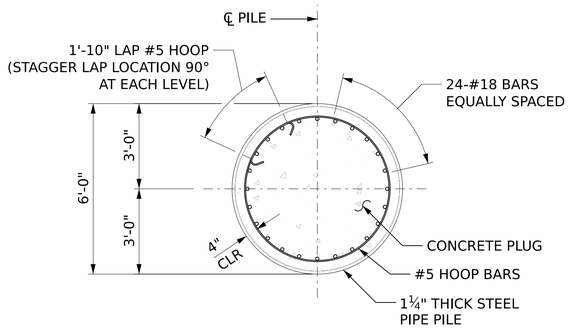
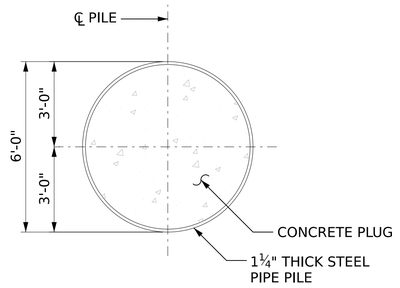


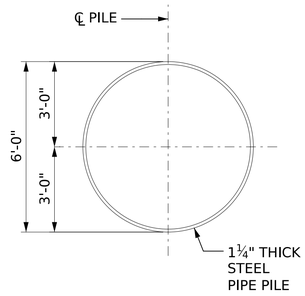
TYPICAL PILE ELEVATION
SCALE: 3/16" = 1'-0"



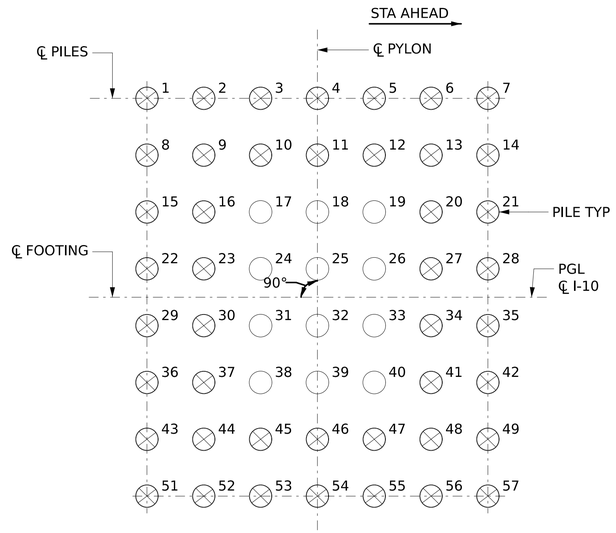
SECTION A-A
SCALE: 3/8" = 1'-0"



SECTION B-B
SCALE: 3/8" = 1'-0"

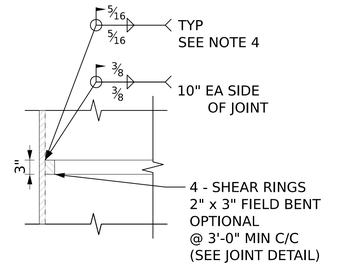


SECTION C-C
SCALE: 3/8" = 1'-0"

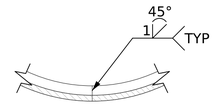


P29/P30 PILE LAYOUT
NTS

FOR PILE TYPES A & B



INSIDE SHEAR RING DETAIL
SCALE: 3/4" = 1'-0"



INSIDE SHEAR RING JOINT DETAIL
SCALE: 3/4" = 1'-0"
(3 REQ'D @ 120° INTERVALS)

NOTES:

1. OPTIONAL USE OF HEADED BARS INSTEAD OF HOOKS PERMITTED FOR PILE TYPE A. STRAIGHT BARS PERMITTED ONLY FOR PILE TYPE B.
2. SHEAR RINGS CAN BE LOCATED ANYWHERE WITHIN THE "ZONE OF SHEAR RINGS".
3. FOR HEADED BAR DETAILS SEE SHEET "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
4. FIELD WELD OPTIONAL FOR SHEAR RINGS IN LIEU OF SHOP WELD.
5. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY PILE INSTALLATION ACTIVITIES.
6. PILE TIP ELEVATIONS AND PILE LENGTHS ARE BASED ON EARLY WORKS SOIL EXPLORATIONS MB-1, MB-02, MB-02A. BOTTOM OF PILE CAP ELEVATIONS AT PYLONS ARE ASSUMED TO BE -1.50'.

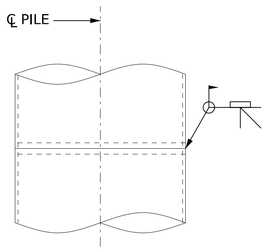
LEGEND:

⊗ TYPE A PILE LOCATION

○ TYPE B PILE LOCATION

$$\frac{\text{FACTORED DESIGN LOAD+NET SCOUR RESISTANCE+DOWN DRAG}}{\phi} \leq \text{NOMINAL BEARING RESISTANCE}$$

UPLIFT RESISTANCE	-	THE NOMINAL SIDE FRICTION CAPACITY THAT MUST BE OBTAINED BELOW THE 100 YEAR SCOUR ELEVATION TO RESIST PULLOUT OF THE PILE (SPECIFY ONLY WHEN DESIGN REQUIRES UPLIFT CAPACITY).
TOTAL SCOUR RESISTANCE	-	AN ESTIMATE OF THE NOMINAL STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SCOURABLE SOIL.
NET SCOUR RESISTANCE	-	AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SOIL FROM THE REQUIRED PREFORMED OR JETTING ELEVATION TO THE SCOUR ELEVATION.
100-YEAR SCOUR ELEVATION	-	ESTIMATED ELEVATION OF SCOUR DUE TO THE 100 YEAR STORM EVENT.



PILE SPLICE WELD DETAIL

TABLE 1: INSTALLATION AND DESIGN CRITERIA

FOUNDATION		PILE SIZE TYPE	PILE TIP ELEVATION (SEE NOTE 6) "FT"	PILE LENGTH (SEE NOTE 6) "FT"	CONCRETE PLUG LENGTH "FT"	NOMINAL BEARING RESISTANCE "TONS"	NOMINAL UPLIFT RESISTANCE "TONS"	MIN. TIP ELEVATION "FT" *	STRENGTH LIMIT STATE FACTORED DESIGN LOAD		DOWNDRAG "TONS"	TOTAL SCOUR RESISTANCE "TONS"	NET SCOUR RESISTANCE "TONS"	100-YEAR SCOUR ELEVATION "FT"	ϕ COMPRESSION/ UPLIFT
									BEARING "TONS"	UPLIFT "TONS"					
29	CENTER	72" DRIVEN STEEL PIPE, 1 1/4" THICK	-260	259	90	3260	3138	-192	2496	823	N/A	N/A	N/A	N/A	0.8/0.6
30	CENTER		-275	274	110	3611	3488	-205	2473	703	N/A	-	-	-39.9	0.8/0.6

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A	KIE	02/14/2025	60% SUBMITTAL

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

FOUNDATION

PILE DETAILS 3

MRB-S04-BR-40118.dgn
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1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40121

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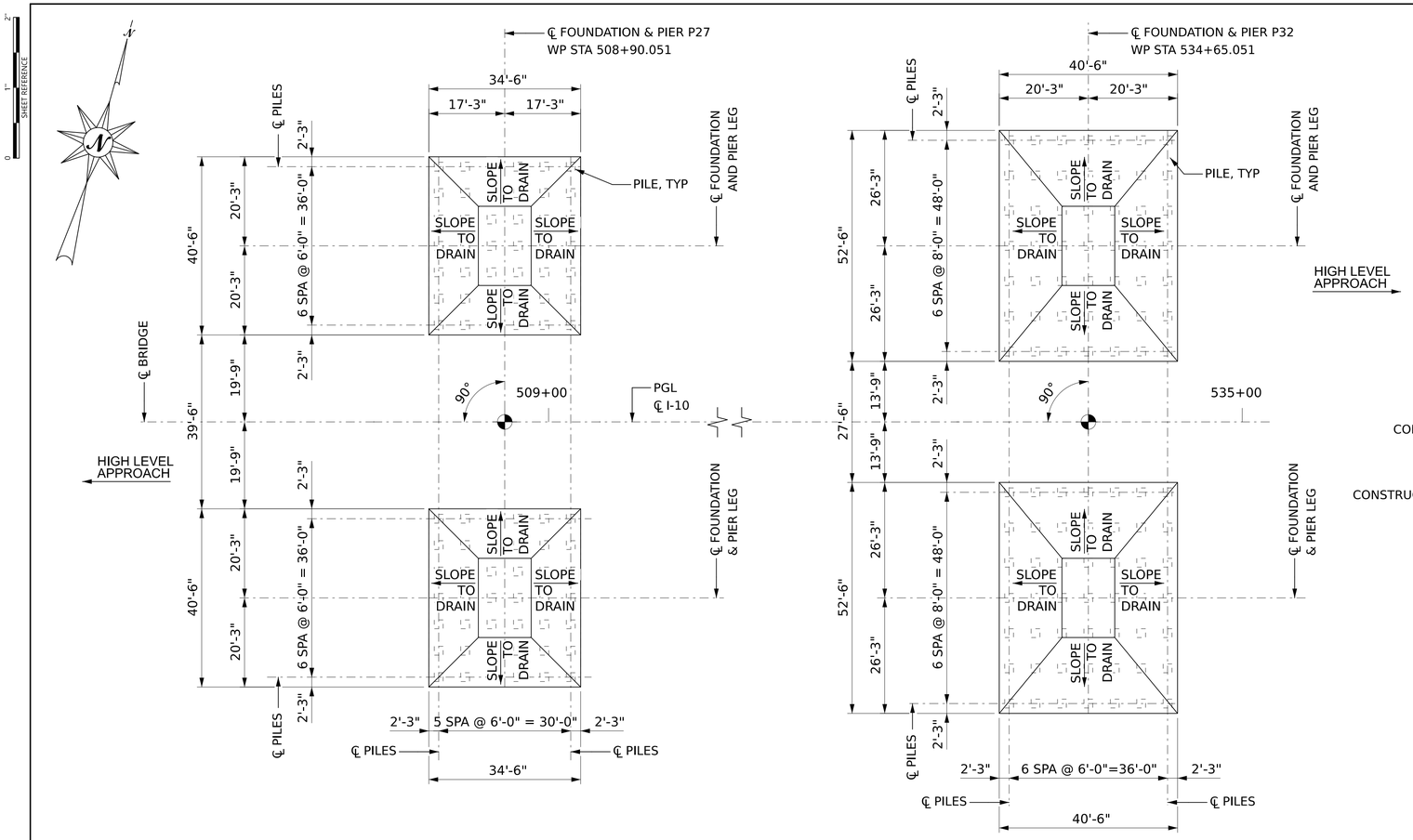
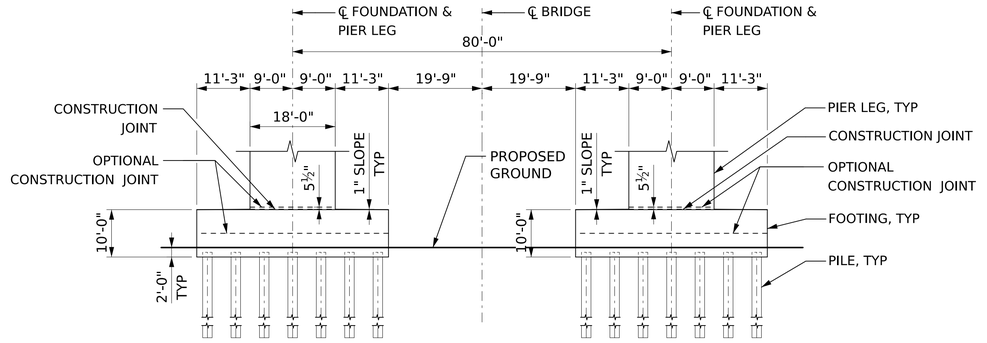
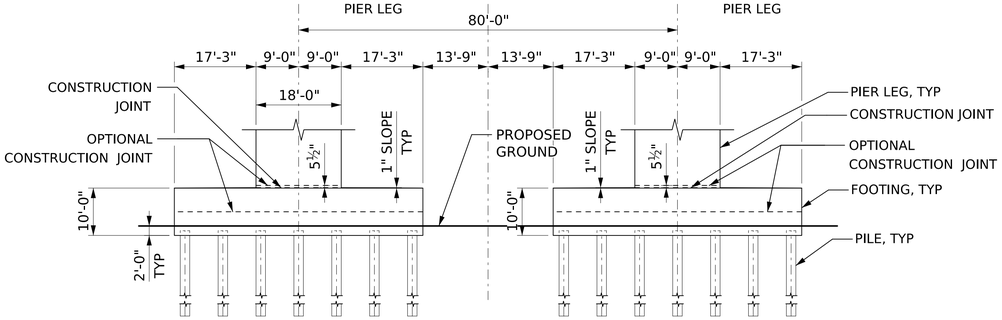


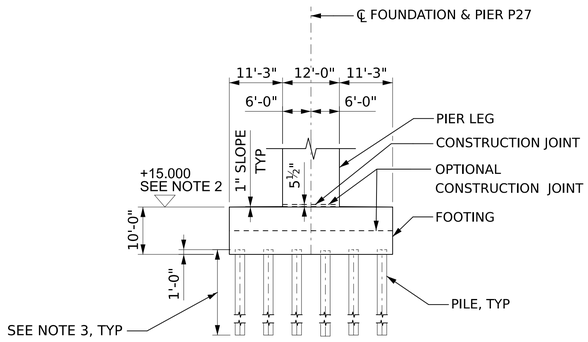
PLAN
SCALE: 1/16" = 1'-0"



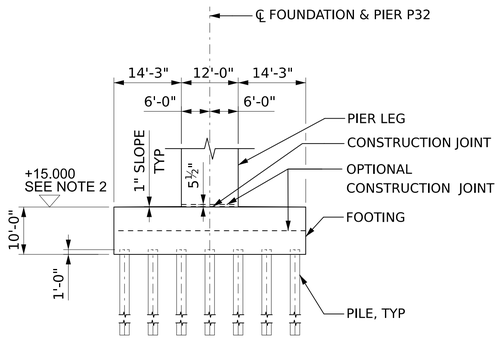
TRANSVERSE ELEVATION P27
SCALE: 1/16" = 1'-0"



TRANSVERSE ELEVATION P32
SCALE: 1/16" = 1'-0"



LONGITUDINAL ELEVATION PIER 27
SCALE: 1/16" = 1'-0"



LONGITUDINAL ELEVATION PIER 32
SCALE: 1/16" = 1'-0"

NOTES:

1. FOR PILE DETAILS, SEE "PILE DETAILS" SHEETS.
2. BOTTOM OF FOOTING TO BE A MINIMUM OF 2'-0" BELOW THE PROPOSED GROUND WITHIN A HORIZONTAL DISTANCE OF 5'-0" AROUND THE PERIMETER OF THE FOOTING.
3. FOR PILE LENGTH, SEE PILE INSTALLATION TABLE ON "PILE DETAILS 2" SHEET.

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32
FOUNDATION DIMENSIONS

MRB-S04-BR-40121.dgn
Brad.Shepard
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1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40123

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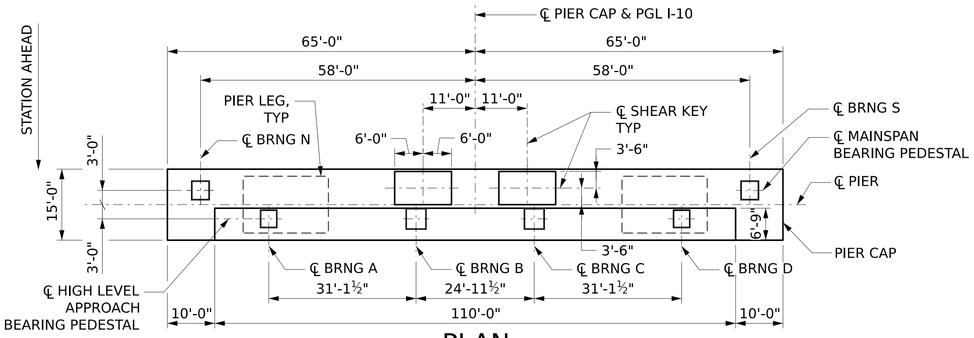
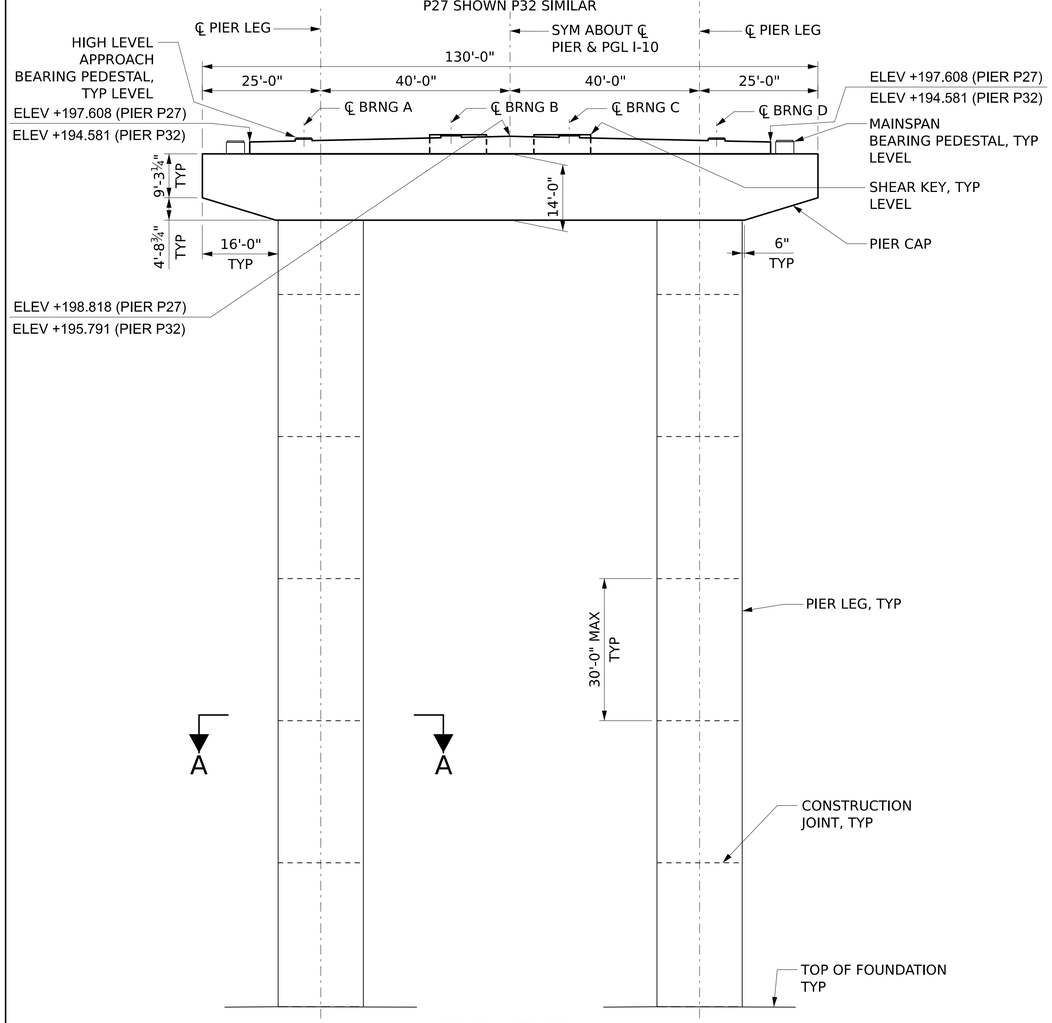


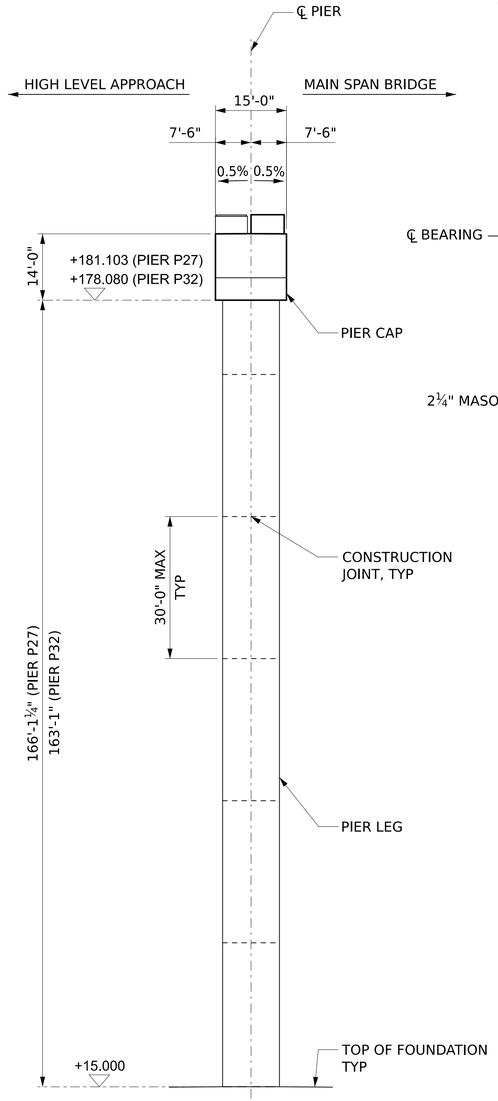
PLAN

SCALE: 1/16" = 1'-0"
P27 SHOWN P32 SIMILAR



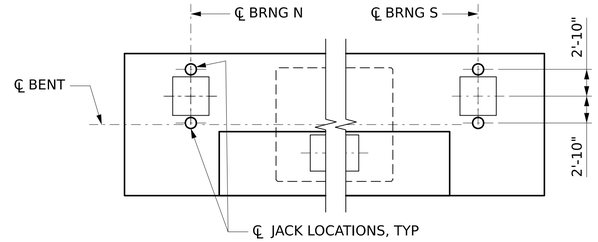
ELEVATION

SCALE: 1/16" = 1'-0"
LOOKING UPSTATION AT P27, P32 SIMILAR



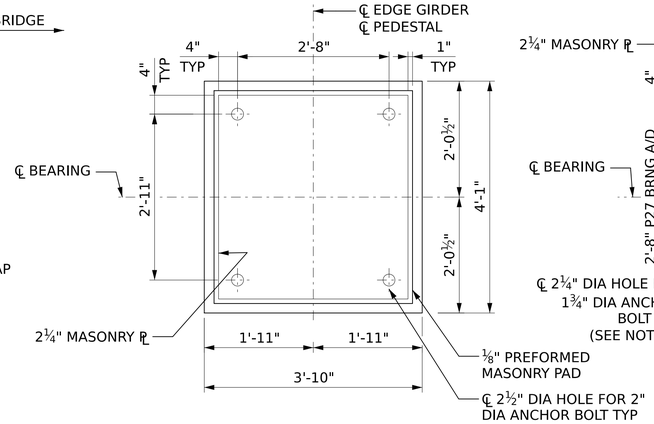
SIDE VIEW

SCALE: 1/16" = 1'-0"



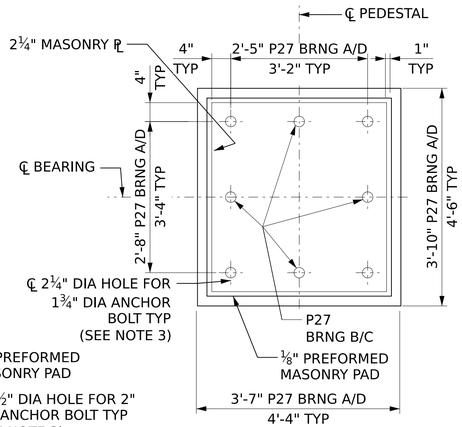
MAIN SPAN BEARING REPLACEMENT

SCALE: 1/8" = 1'-0"



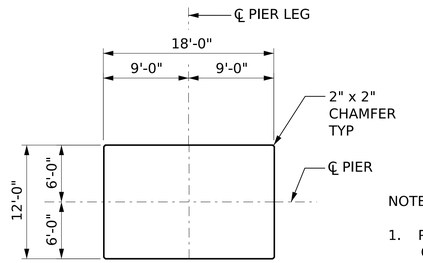
MAINSPAN BEARING PEDESTAL DETAIL

SCALE: 3/4" = 1'-0"



HLA BEARING PEDESTAL DETAIL

SCALE: 3/4" = 1'-0"



SECTION A-A

SCALE: 1/8" = 1'-0"

TABLE OF ELEVATIONS		
ELEMENT	PIER P27	PIER P32
BEARING N PEDESTAL	197.723	194.701
BEARING S PEDESTAL	197.723	194.701
BEARING A PEDESTAL	198.237	195.209
BEARING B PEDESTAL	198.921	195.894
BEARING C PEDESTAL	198.921	195.894
BEARING D PEDESTAL	198.237	195.209
SHEAR KEY	198.436	195.413

NOTES:

1. PIER P27 SHOWN. PIER 32 SIMILAR AND SYMMETRIC ABOUT ℄ MAIN SPAN BRIDGE, UNLESS NOTED OTHERWISE.
2. SEE HLA SHEETS FOR HLA BEARING REPLACEMENT DETAILS.
3. FOR ANCHOR BOLT DETAILS, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
4. FOR FOOTING DETAILS, SEE "PIER P27 & P32 FOUNDATION DIMENSIONS" SHEET.

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BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32
DIMENSIONS

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Adriana.Albarano
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40124

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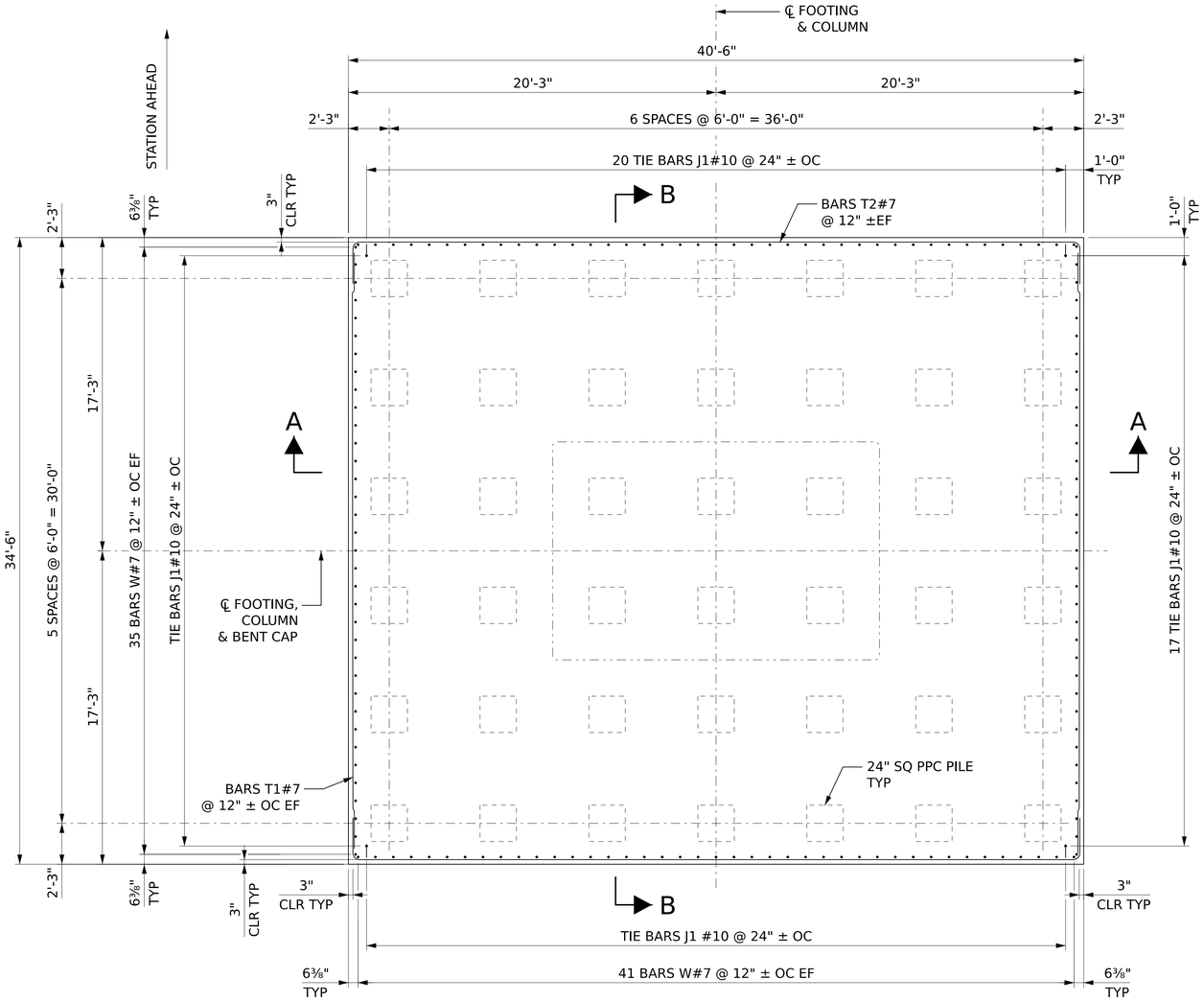

FOOTING PLAN

SCALE: 1/4" = 1'-0"

NORTH FOOTING SHOWN, SOUTH FOOTING SIMILAR

NOTE:

1. FOR SECTIONS A-A, AND B-B SEE "PIER 27 FOOTING REINFORCEMENT 2" SHEET.

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P27

FOOTING REINFORCEMENT 1

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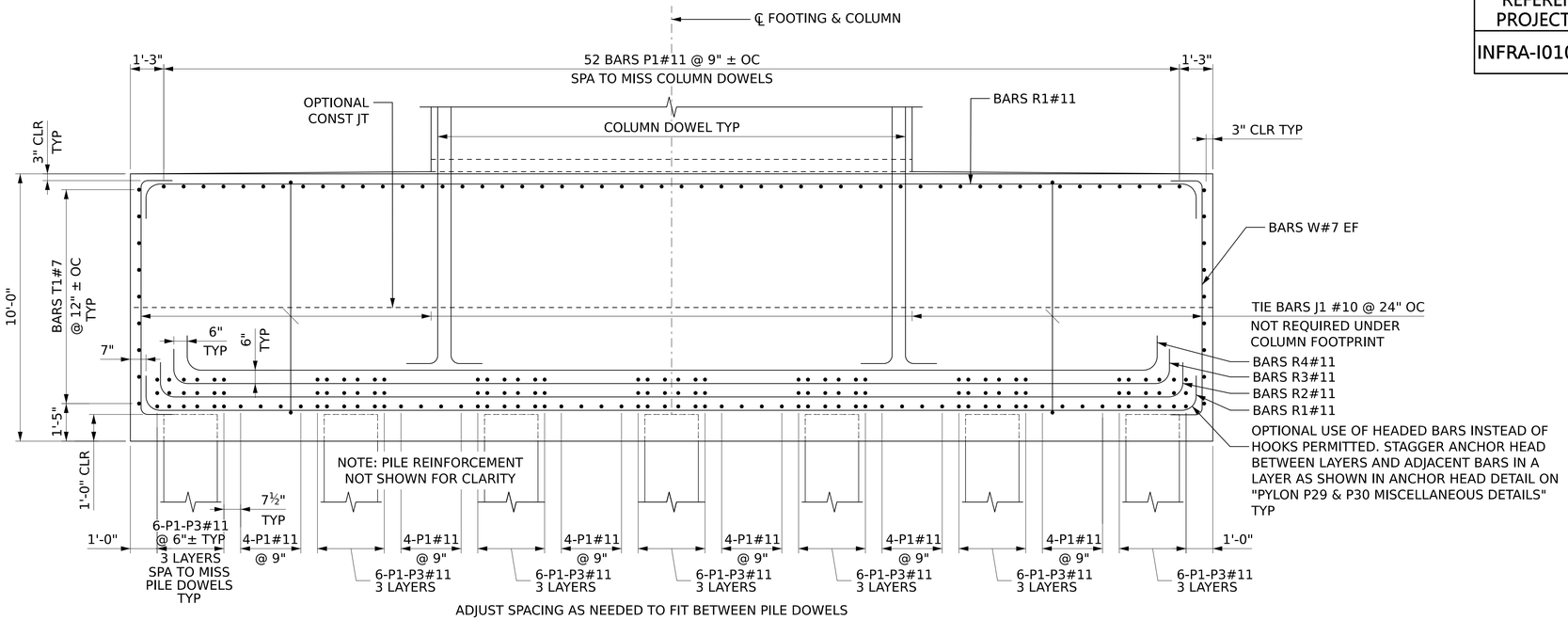
Brad.Shepard
5:05:26 PM
1/27/2025

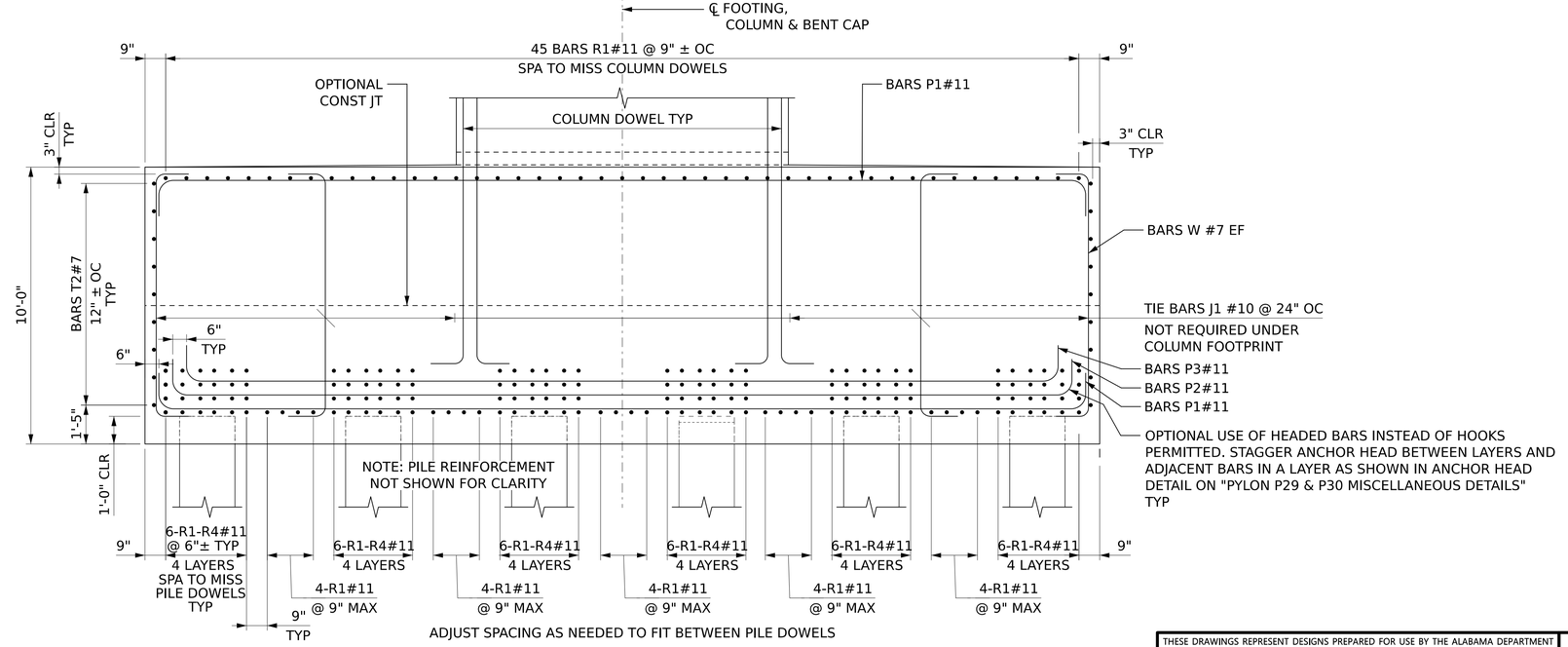
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40125



SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

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PIER P27
FOOTING REINFORCEMENT 2

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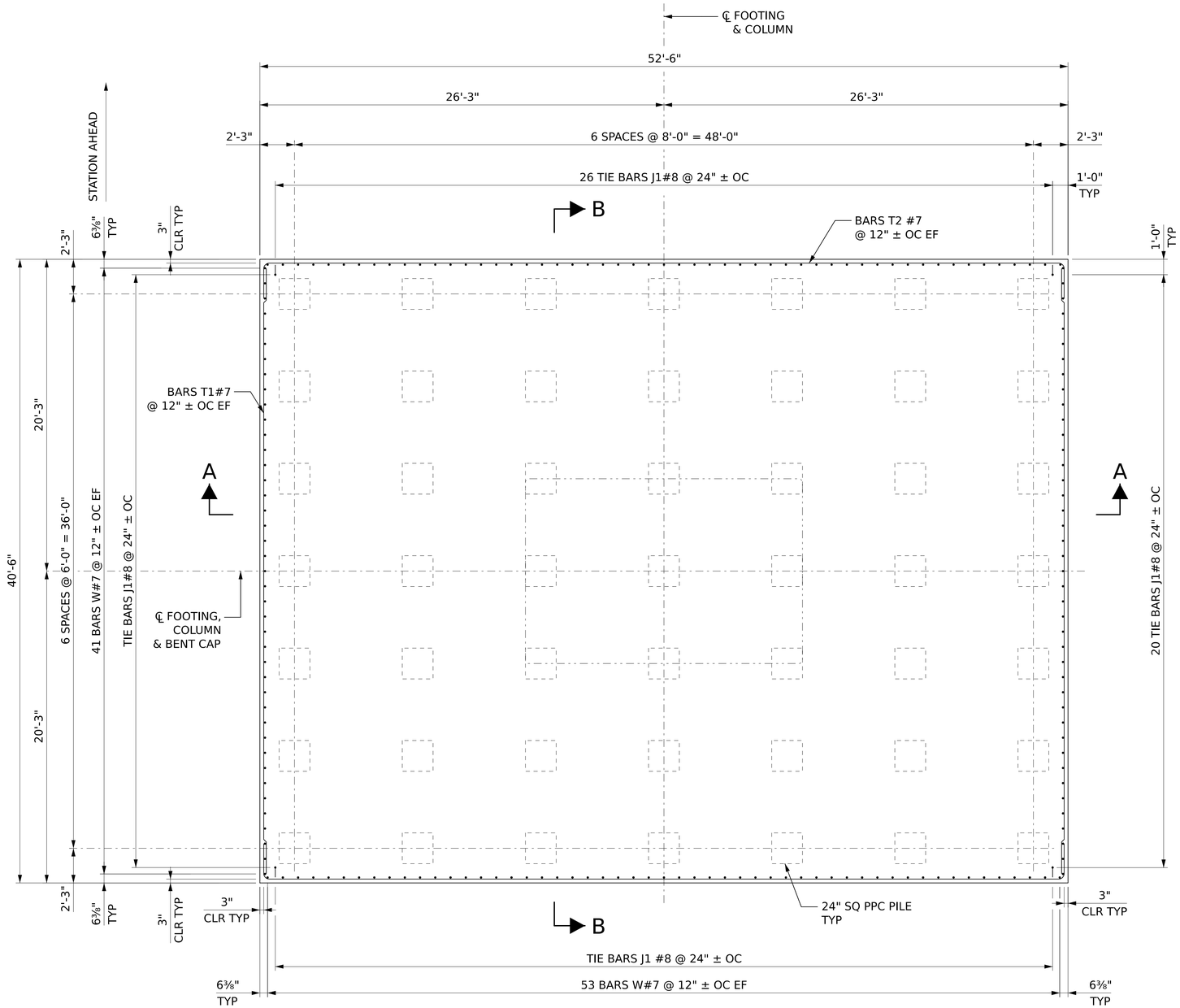
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40126



FOOTING PLAN

SCALE: 1/4" = 1'-0"

NORTH FOOTING SHOWN, SOUTH FOOTING SIMILAR

NOTE:

1. FOR SECTIONS A-A, AND B-B SEE "PIER P32 FOOTING REINFORCEMENT 2" SHEET.

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P32

FOOTING REINFORCEMENT 1

PRELIMINARY

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INFRA-I010(353)	2025	S04-BR-40127

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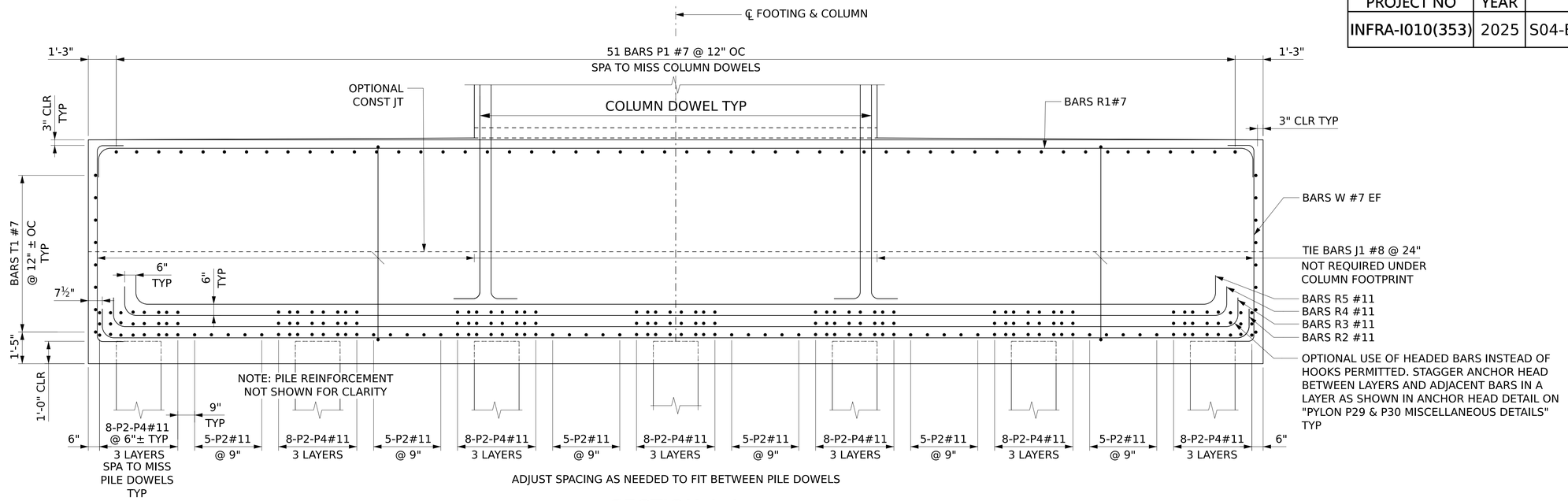
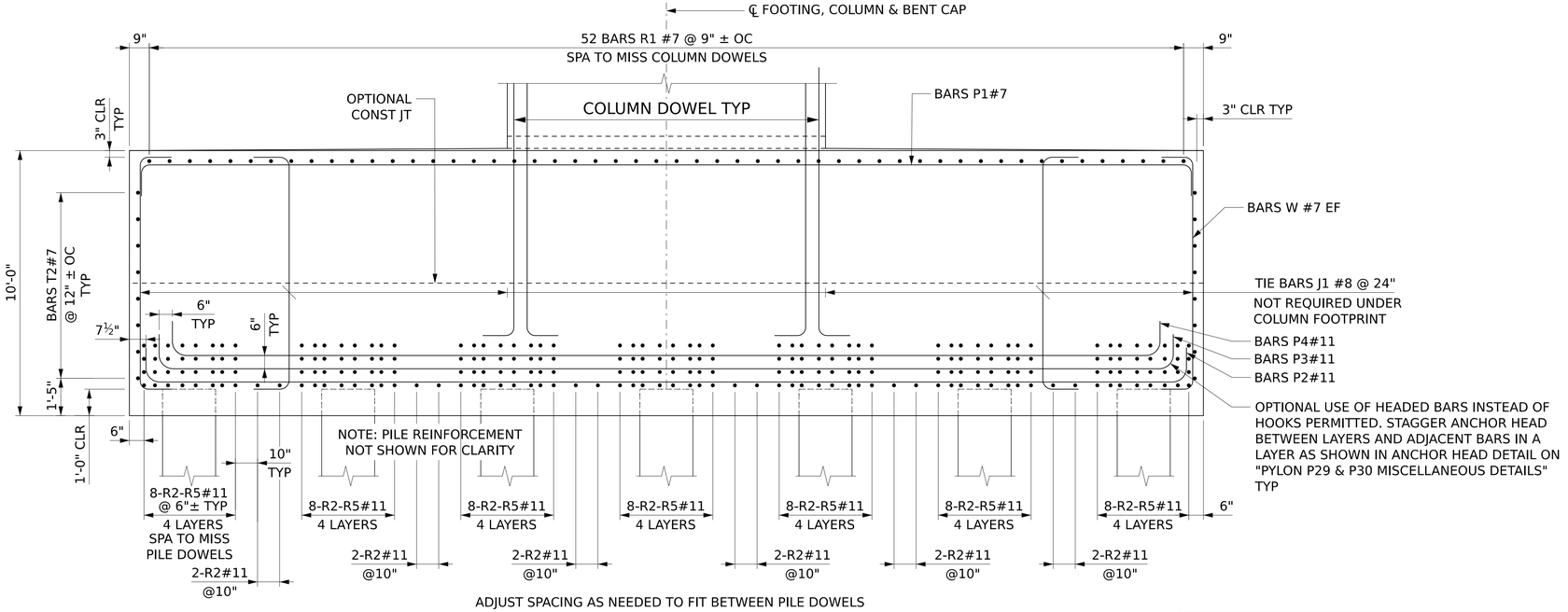


SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

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BRIDGE SHEET NO. OF

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MAIN SPAN BRIDGE
PIER P32
FOOTING REINFORCEMENT 2

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40128

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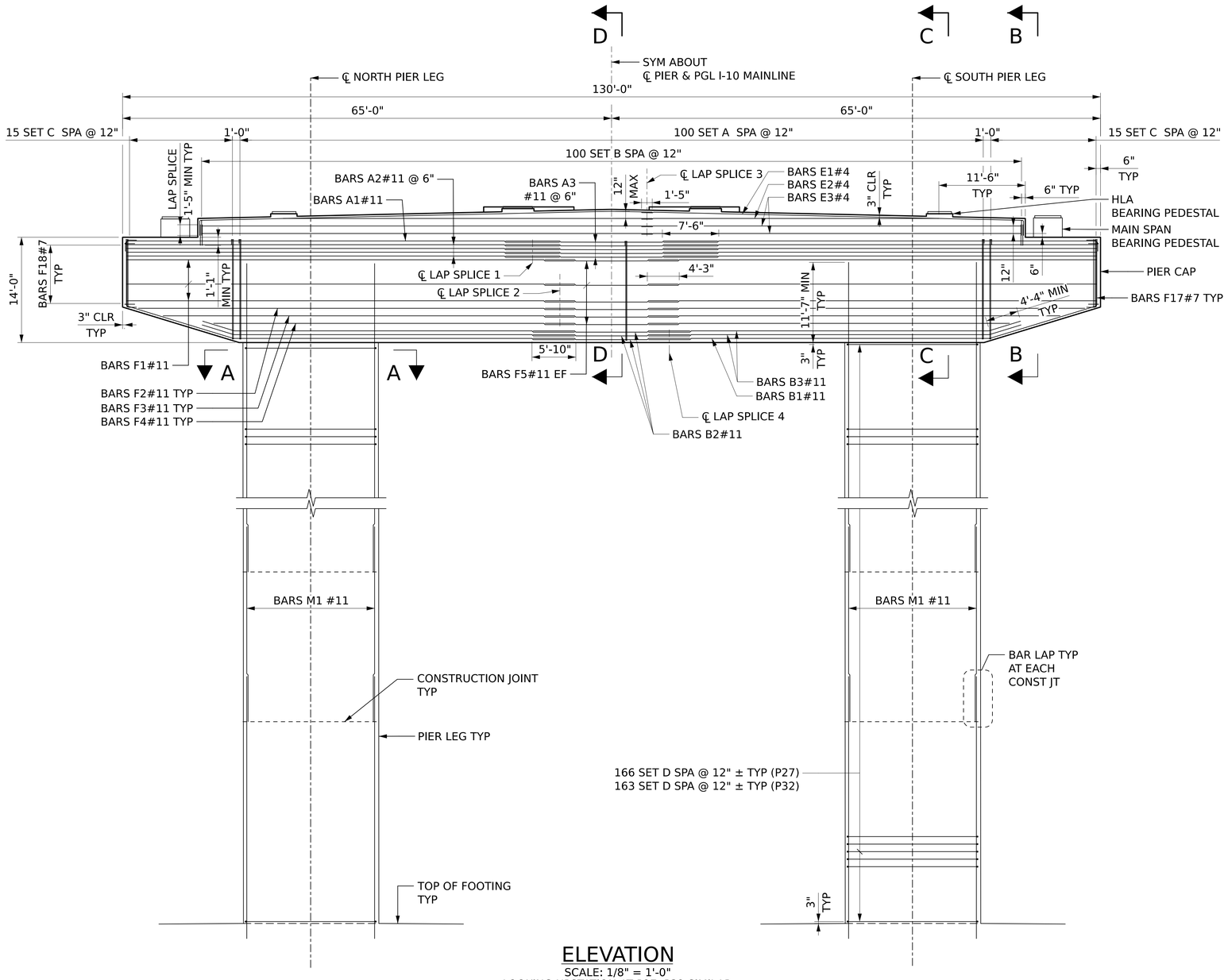
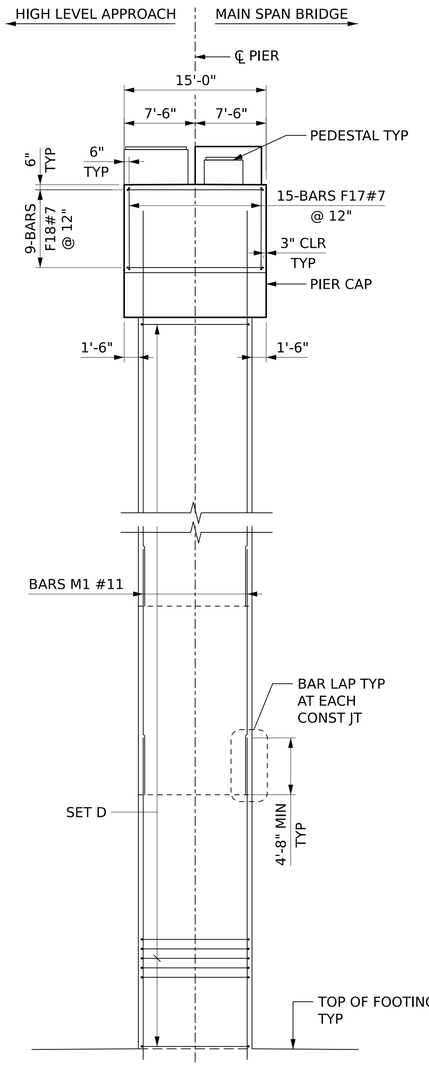


ELEVATION
SCALE: 1/8" = 1'-0"
LOOKING UPSTATION AT P27, P32 SIMILAR



SIDE VIEW
SCALE: 1/8" = 1'-0"

BARS	℄ PGL I-10 TO ℄ SPLICE
1	10'-6"
2	4'-9"
3	6'-10"
4	7'-8"

NOTES:

1. FOR SECTIONS A-A, B-B C-C, D-D, AND E-E, SEE "P27 AND P32 REINFORCEMENT DETAILS 2" SHEET.
2. FOR PEDESTAL AND SHEAR KEY REINFORCEMENT, SEE "P27 AND P32 REINFORCEMENT DETAILS 2" SHEET.
3. CAP, PEDESTAL, AND SHEAR KEY REINFORCEMENT SHALL BE ADJUSTED AS NECESSARY TO ENSURE CORRECT PLACEMENT OF ANCHOR BOLTS OR ANCHOR WELLS.
4. FOR FOOTING DETAILS, SEE "PER P27 FOOTING REINFORCEMENT" SHEETS, AND "PIER 32 FOOTING REINFORCEMENT" SHEETS.

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PIER P27 & P32
COLUMN & CAP REINFORCEMENT 1

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40129

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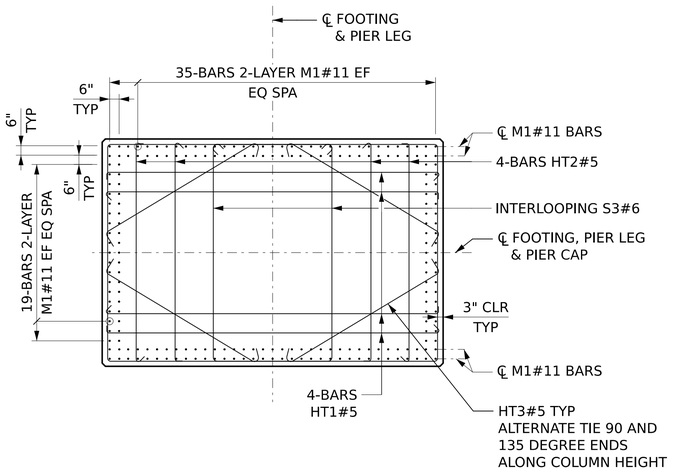
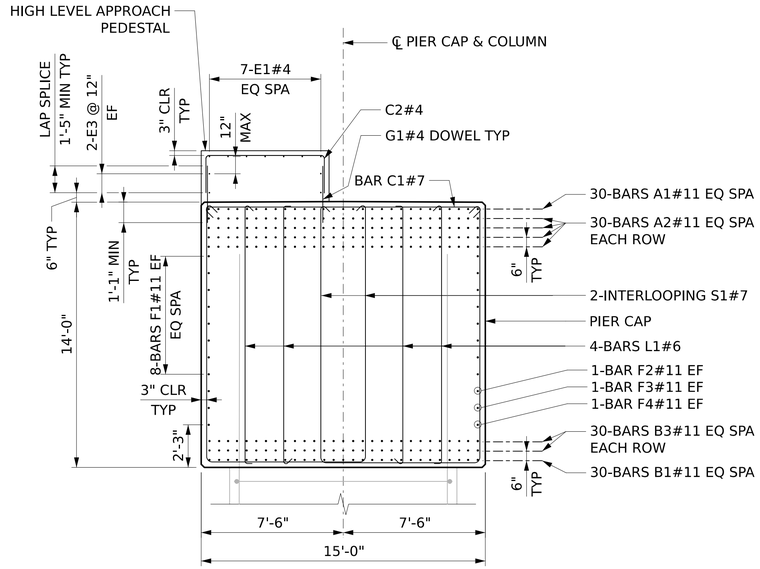


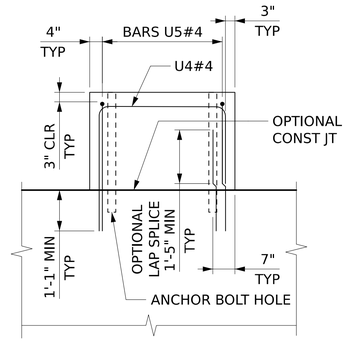
SECTION A-A

SCALE: 1/4" = 1'-0"
BARS 2-S3 + 4-HT1 + 4-HT2 + 4-HT3 = 1 SET D

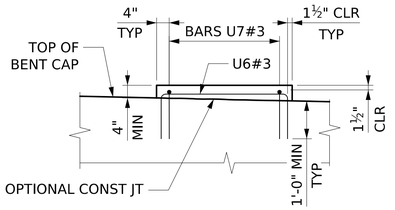


SECTION C-C

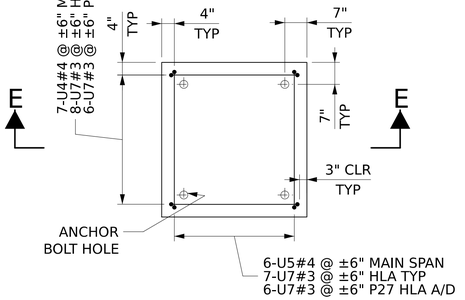
SCALE: 1/4" = 1'-0"
BARS 4-L1 + 2-S1 + C1 = 1 SET A
BARS C2 + 2-G1 = 1 SET B



AT MAIN SPAN BEARING PEDESTAL



AT HLA BEARING PEDESTAL

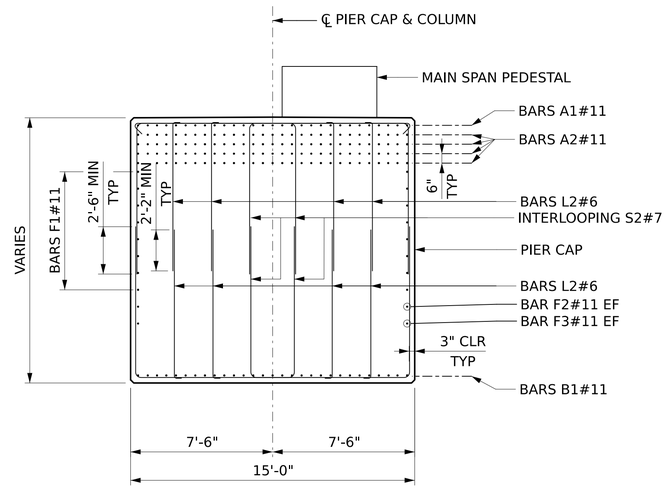


REINF-MAIN SPAN AND HLA BEARING PEDESTAL DETAIL

SCALE: 1/2" = 1'-0"

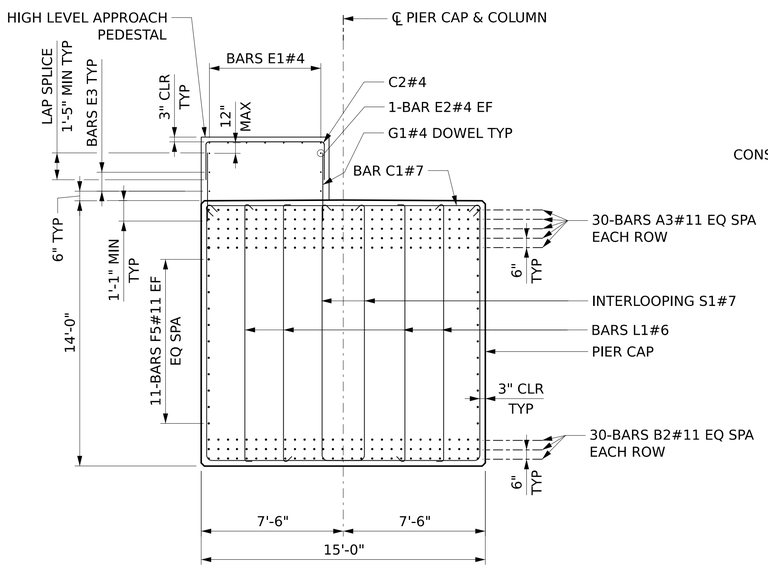
SECTION E-E

SCALE: 1/2" = 1'-0"



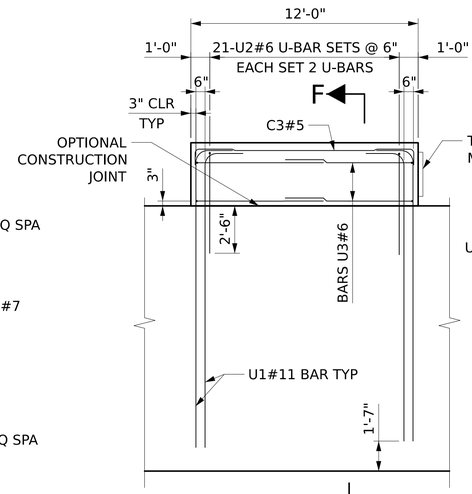
SECTION B-B

SCALE: 1/4" = 1'-0"
BARS 8-L2 + 4-S2 = 1 SET C



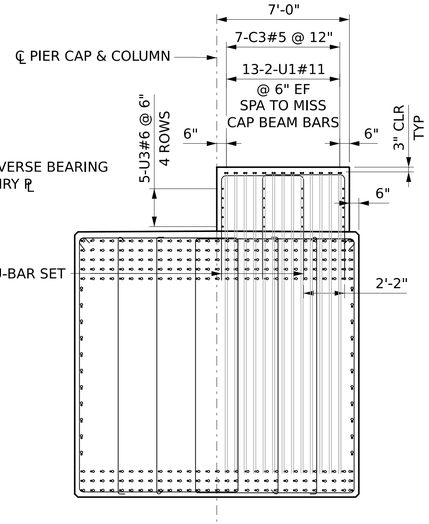
SECTION D-D

SCALE: 1/4" = 1'-0"
BARS 4-L1 + 2-S1 + C1 = 1 SET A
BARS C2 + 2-G1 = 1 SET B



ELEVATION TRANSVERSE SHEAR KEY

SCALE: 1/4" = 1'-0"
CAP BEAM REINFORCING NOT SHOWN FOR CLARITY



SECTION F-F

SCALE: 1/4" = 1'-0"

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SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32
COLUMN & CAP REINFORCEMENT 2

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12:19:40 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40131

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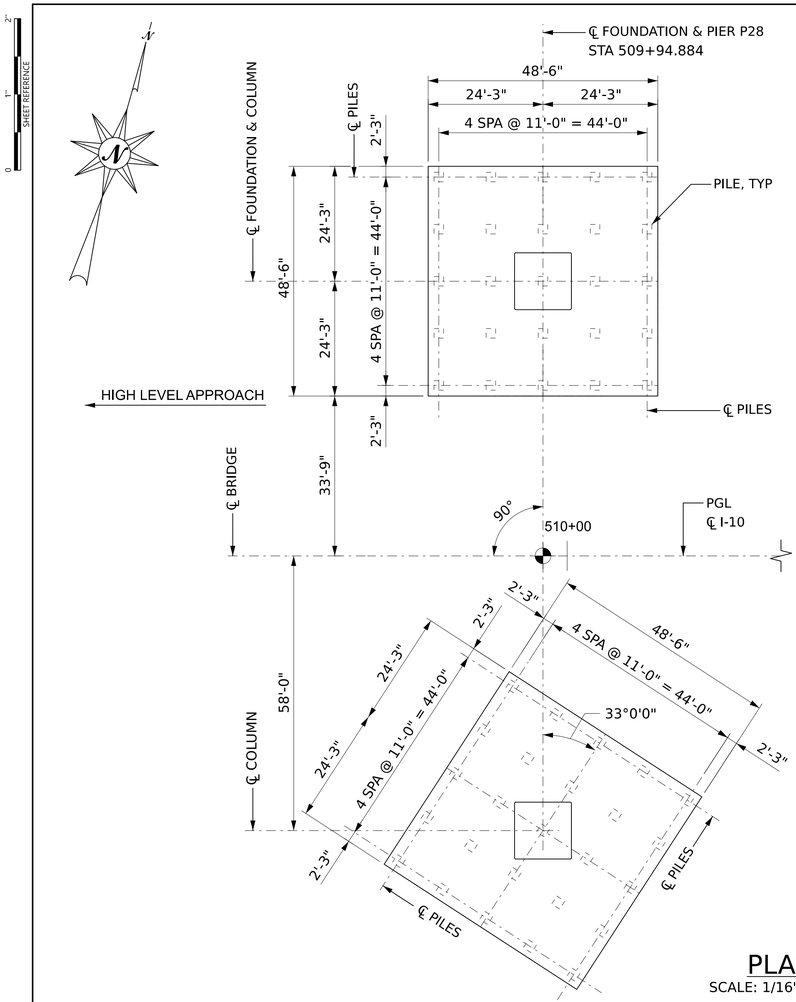
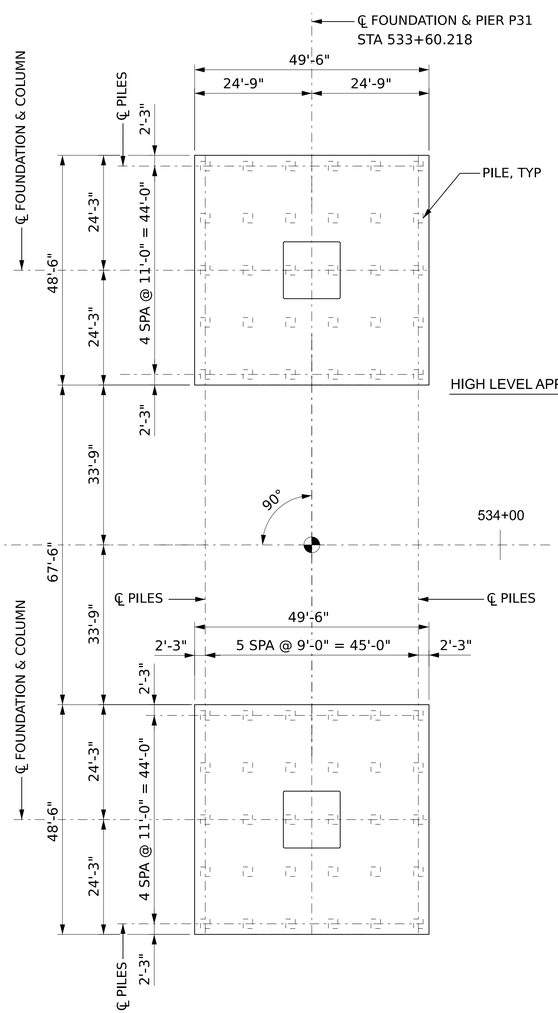
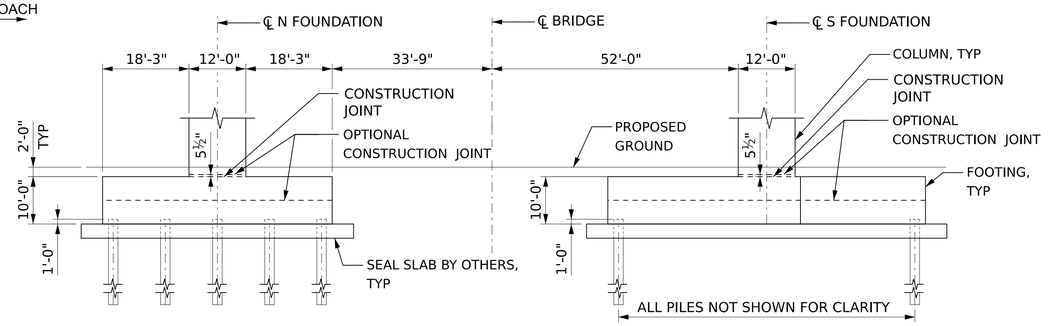
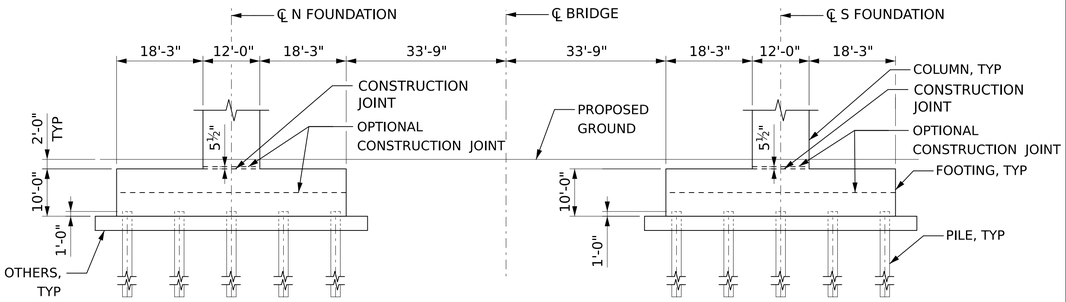


PLAN
SCALE: 1/16" = 1'-0"

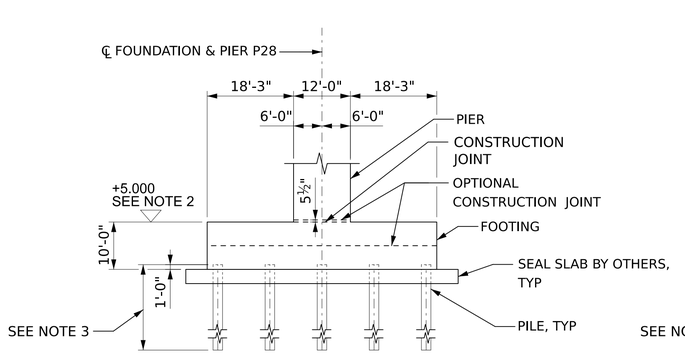




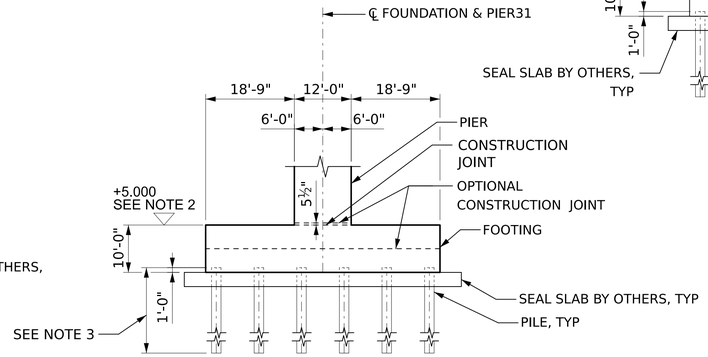
TRANSVERSE ELEVATION P28
SCALE: 1/16" = 1'-0"



TRANSVERSE ELEVATION P31
SCALE: 1/16" = 1'-0"



LONGITUDINAL ELEVATION P28
SCALE: 1/16" = 1'-0"
NORTH FOOTING SHOWN, SOUTH FOOTING SIMILAR



LONGITUDINAL ELEVATION P31
SCALE: 1/16" = 1'-0"

NOTES:

1. FOR PILE DETAILS, SEE "PILE DETAILS" SHEETS.
2. TOP OF FOOTING TO BE A MINIMUM OF 2'-0" BELOW THE FINISHED GRADE WITHIN A HORIZONTAL DISTANCE OF 5'-0" AROUND THE PERIMETER OF THE FOOTING.
3. FOR PILE LENGTH, SEE PILE INSTALLATION TABLE.

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28 & P31
FOUNDATION DIMENSIONS

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40133

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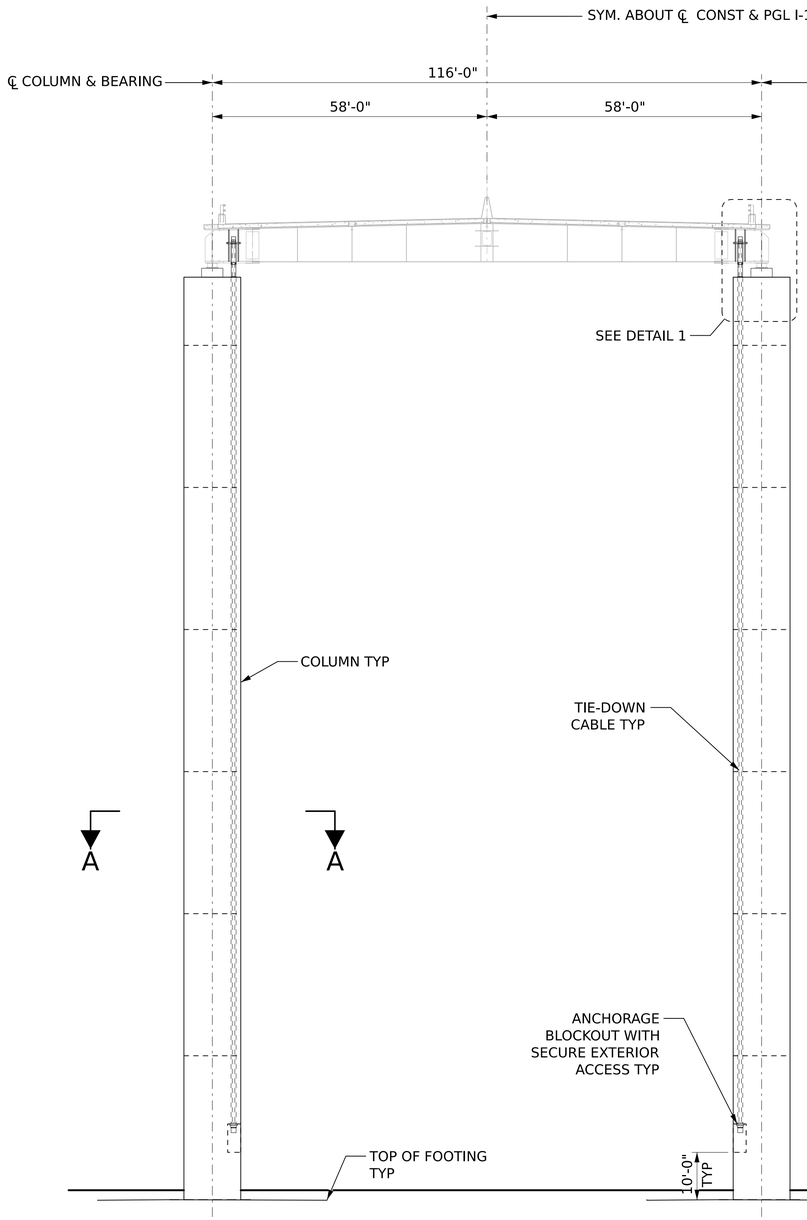
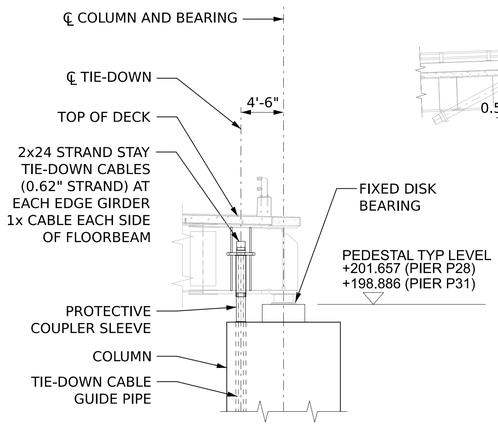
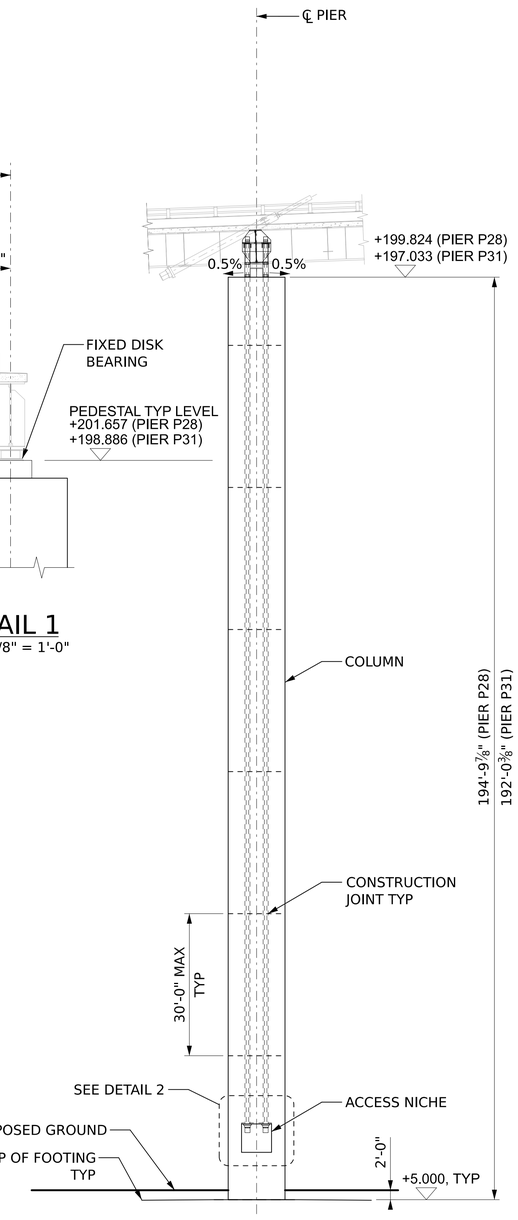


ELEVATION
SCALE: 1/16" = 1'-0"

SEE NOTE 1

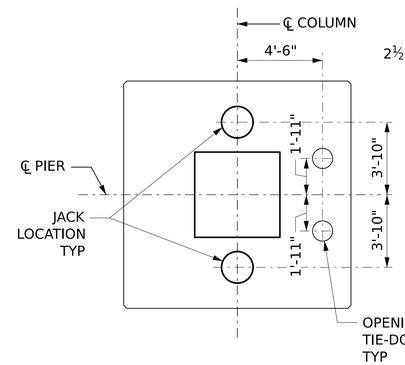


DETAIL 1
SCALE: 1/8" = 1'-0"

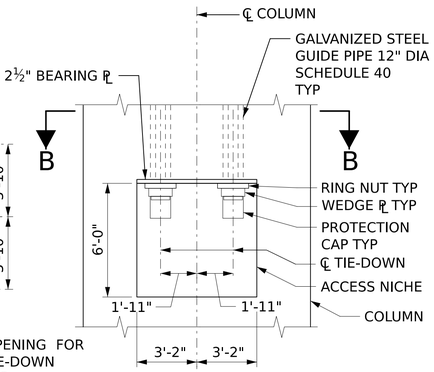


SIDE VIEW
SCALE: 1/16" = 1'-0"

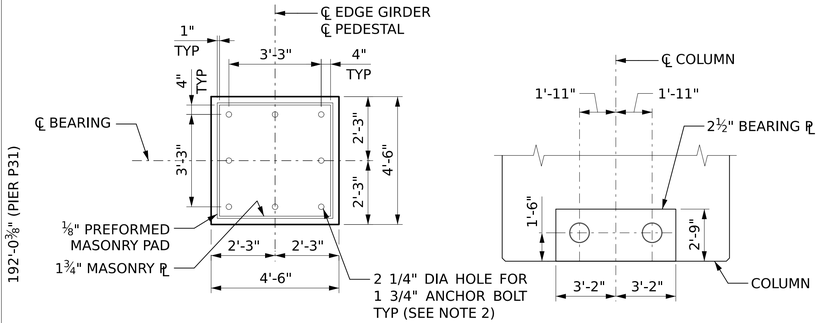
SEE NOTE 1



BEARING REPLACEMENT
SCALE: 1/4" = 1'-0"

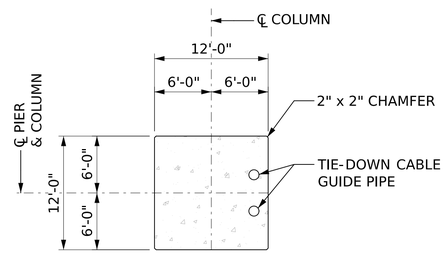


DETAIL 2
SCALE: 1/4" = 1'-0"



BEARING PEDESTAL DETAIL
SCALE: 3/8" = 1'-0"

SECTION B-B
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/8" = 1'-0"

NOTES:

1. PIER P28 SHOWN. PIER P31 SIMILAR AND SYMMETRIC ABOUT ℄ MAIN SPAN BRIDGE, UNLESS NOTED OTHERWISE.
2. FOR ANCHOR BOLT DETAILS, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR FOOTING DETAILS, SEE "PIER P28 & P31 FOUNDATION DIMENSIONS" SHEET.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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A	KIE	04/04/2025	60% SUBMITTAL

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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BIN(S)

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MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28 & P31
DIMENSIONS

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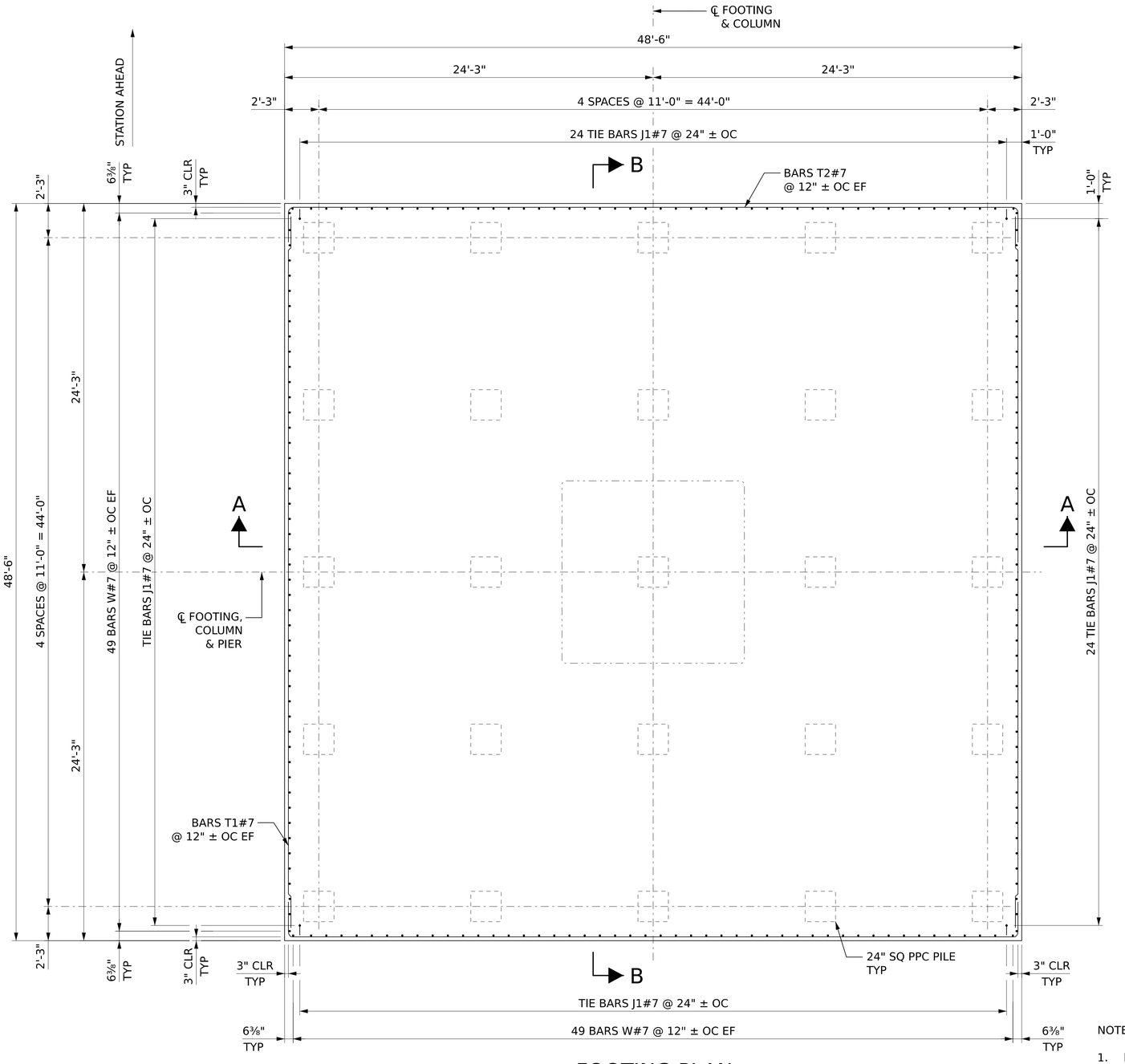
Adriana.Albarano
2:47:34 PM
3/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40134



FOOTING PLAN

SCALE: 1/4" = 1'-0"
NORTH FOOTING

NOTE:

1. FOR SECTIONS A-A, AND B-B SEE "PIER P28 FOOTING REINFORCEMENT 3" SHEET.

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28
FOOTING REINFORCEMENT 1

PRELIMINARY
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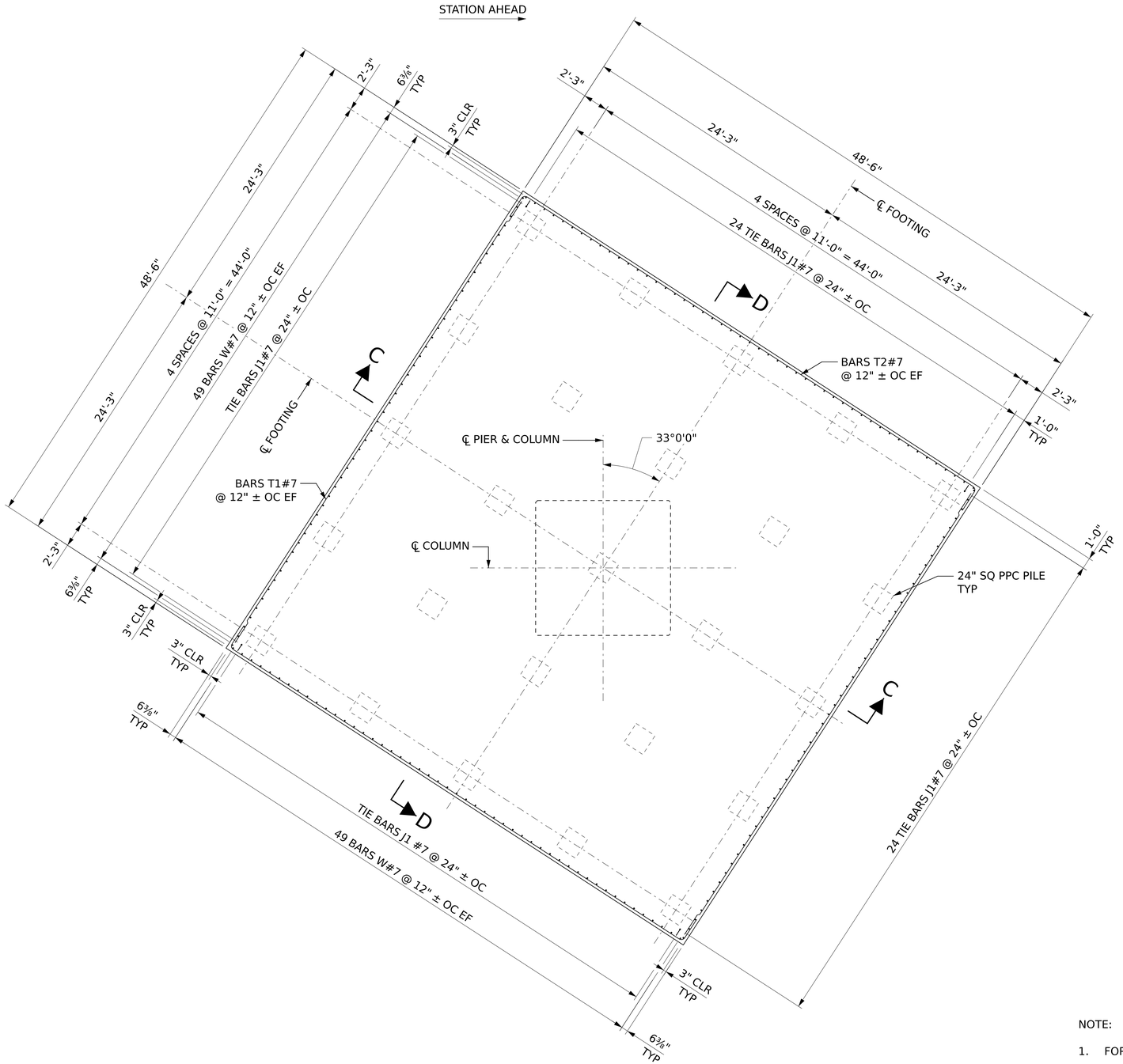
1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40135



FOOTING PLAN

SCALE: 3/16" = 1'-0"
SOUTH FOOTING

NOTE:

1. FOR SECTIONS C-C, AND D-D SEE "PIER P28 FOOTING REINFORCEMENT 4" SHEET.

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COUNTY(S)
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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28
FOOTING REINFORCEMENT 2

PRELIMINARY
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40136

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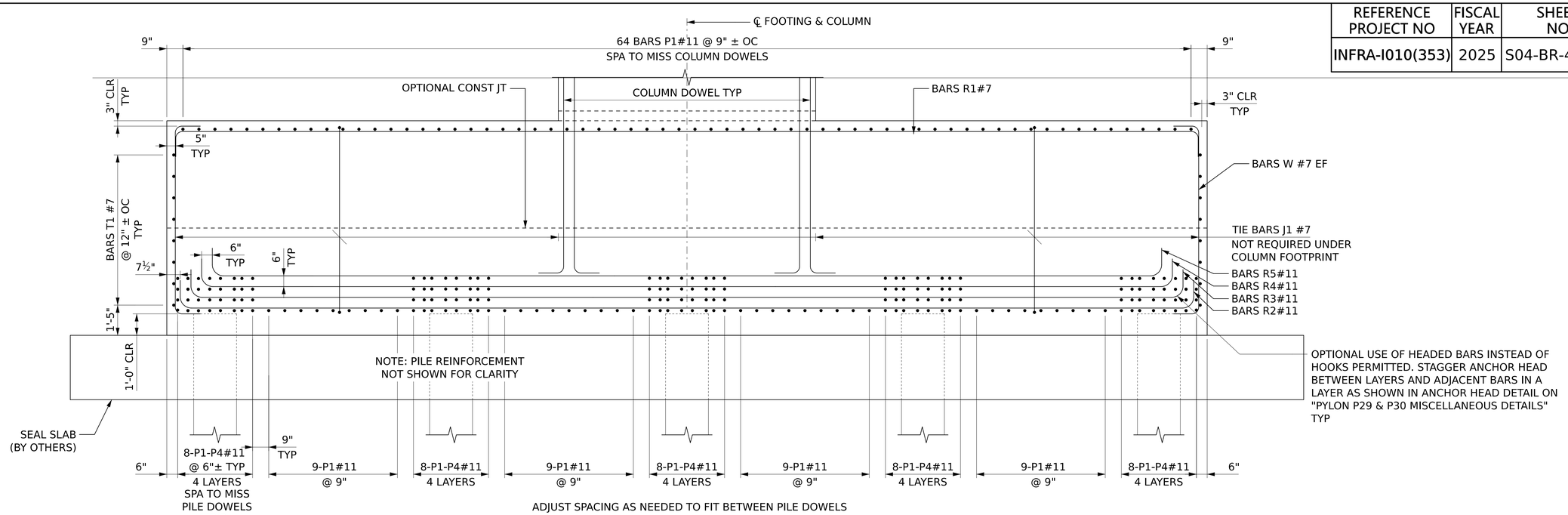
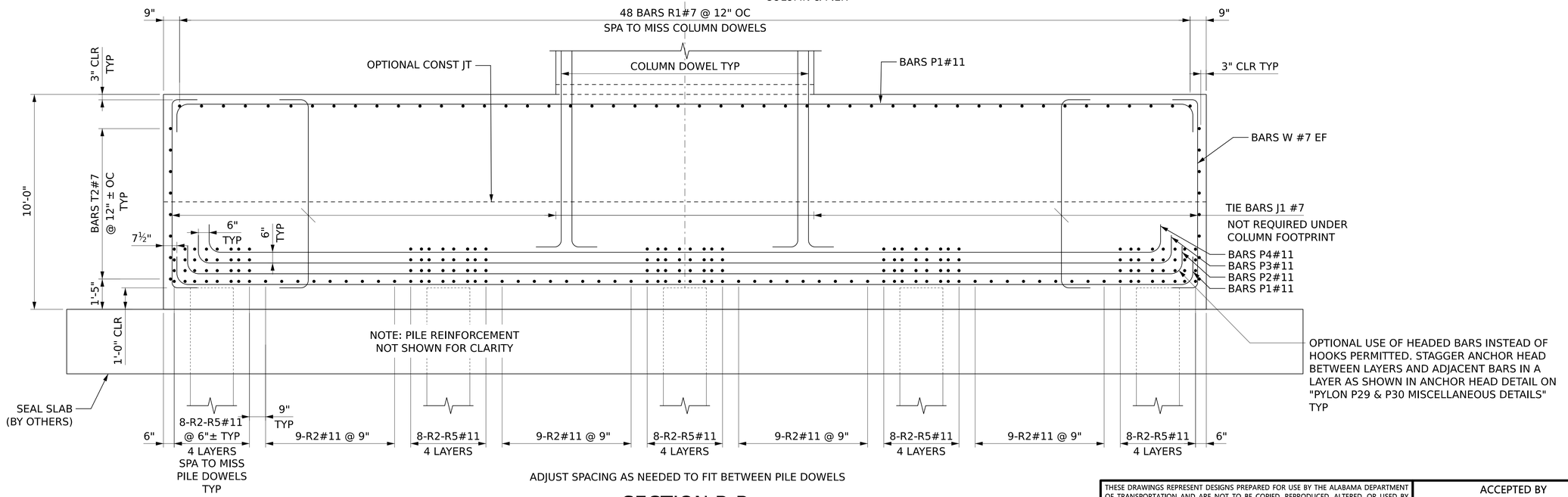


SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

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BRIDGE ENGINEER DATE

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MOBILE

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BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P28

FOOTING REINFORCEMENT 3

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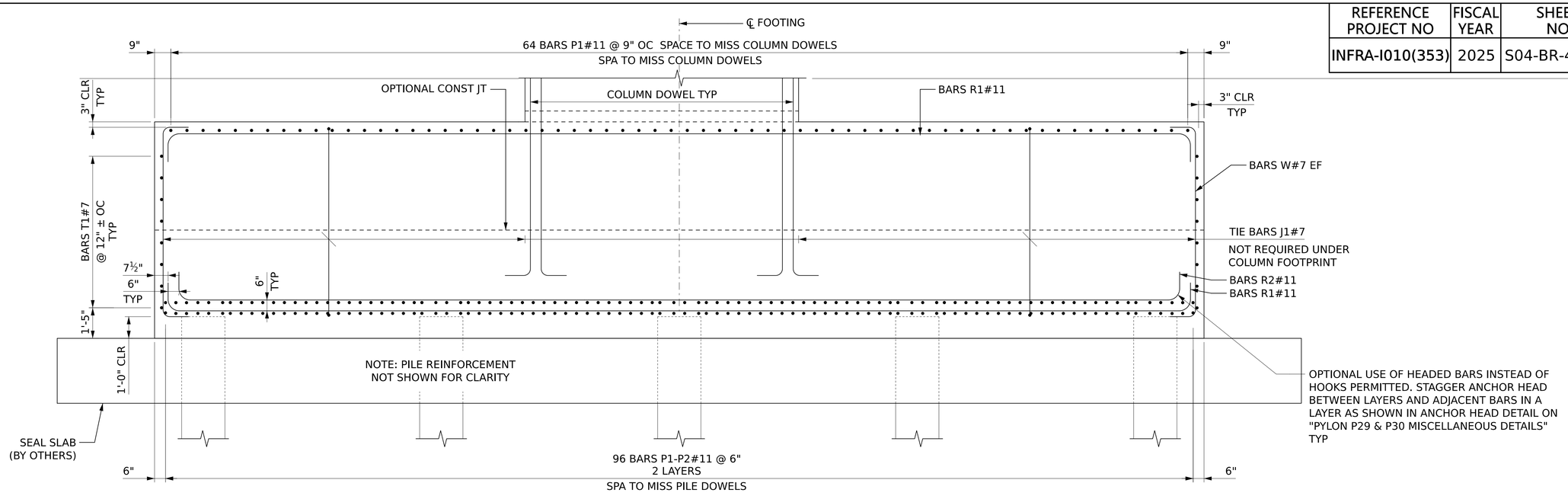
2" 1" 0 SHEET REFERENCE

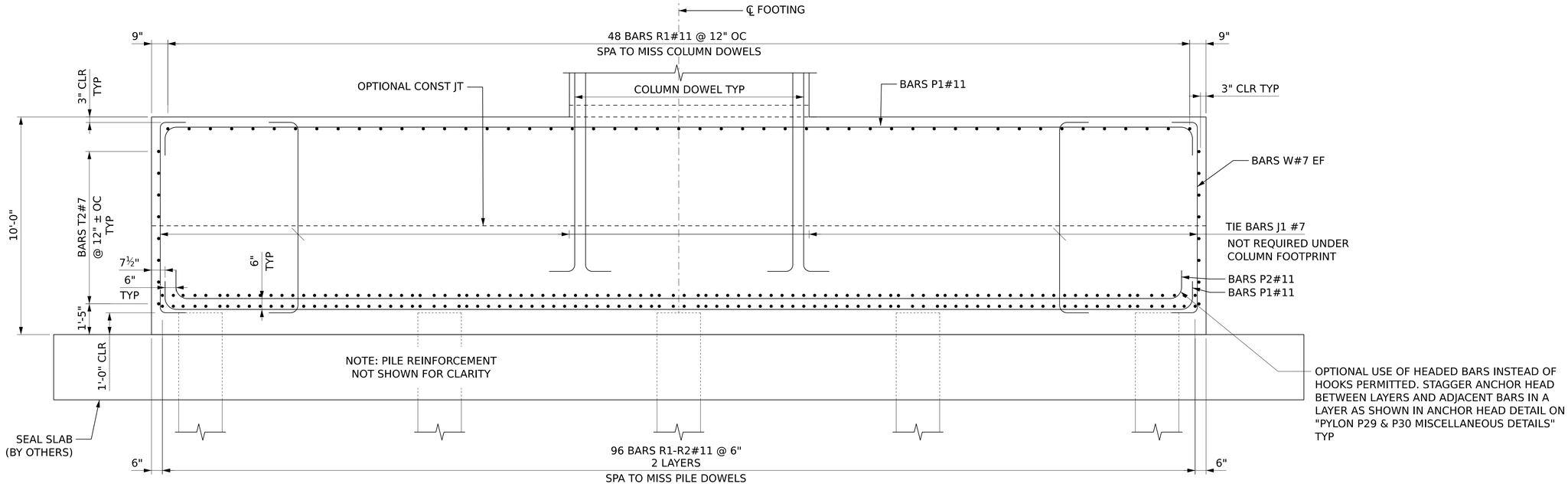
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40137



ADJUST SPACING AS NEEDED TO FIT BETWEEN PILE DOWELS

SECTION C-C

SCALE: 3/8" = 1'-0"



ADJUST SPACING AS NEEDED TO FIT BETWEEN PILE DOWELS

SECTION D-D

SCALE: 3/8" = 1'-0"

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P28

FOOTING REINFORCEMENT 4

PRELIMINARY

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1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40138

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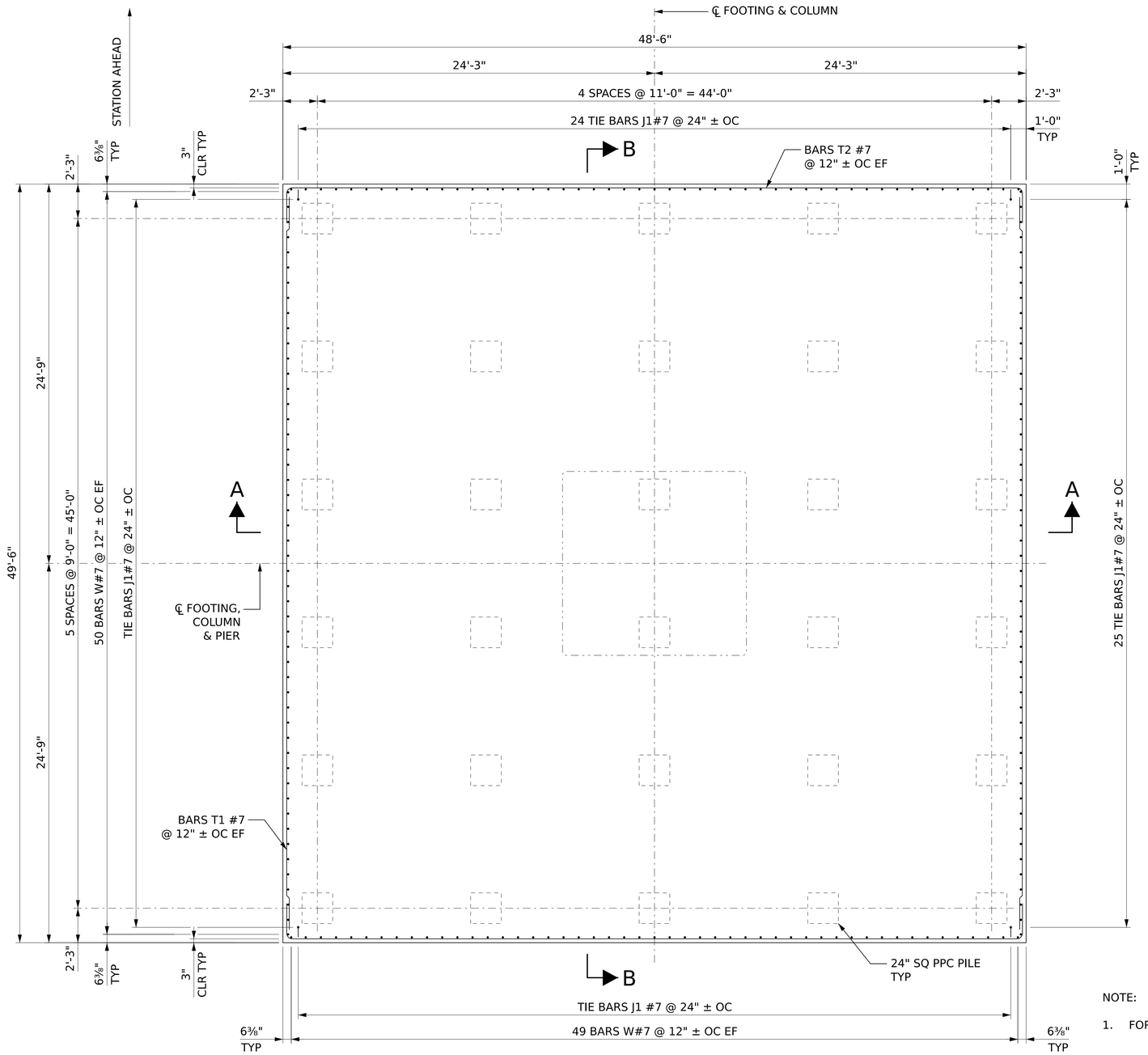

FOOTING PLAN

SCALE: 1/4" = 1'-0"

NORTH FOOTING SHOWN, SOUTH FOOTING SIMILAR

NOTE:

1. FOR SECTIONS A-A, AND B-B SEE "PIER P31 FOOTING REINFORCEMENT 2" SHEET.

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MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P31
FOOTING REINFORCEMENT 1

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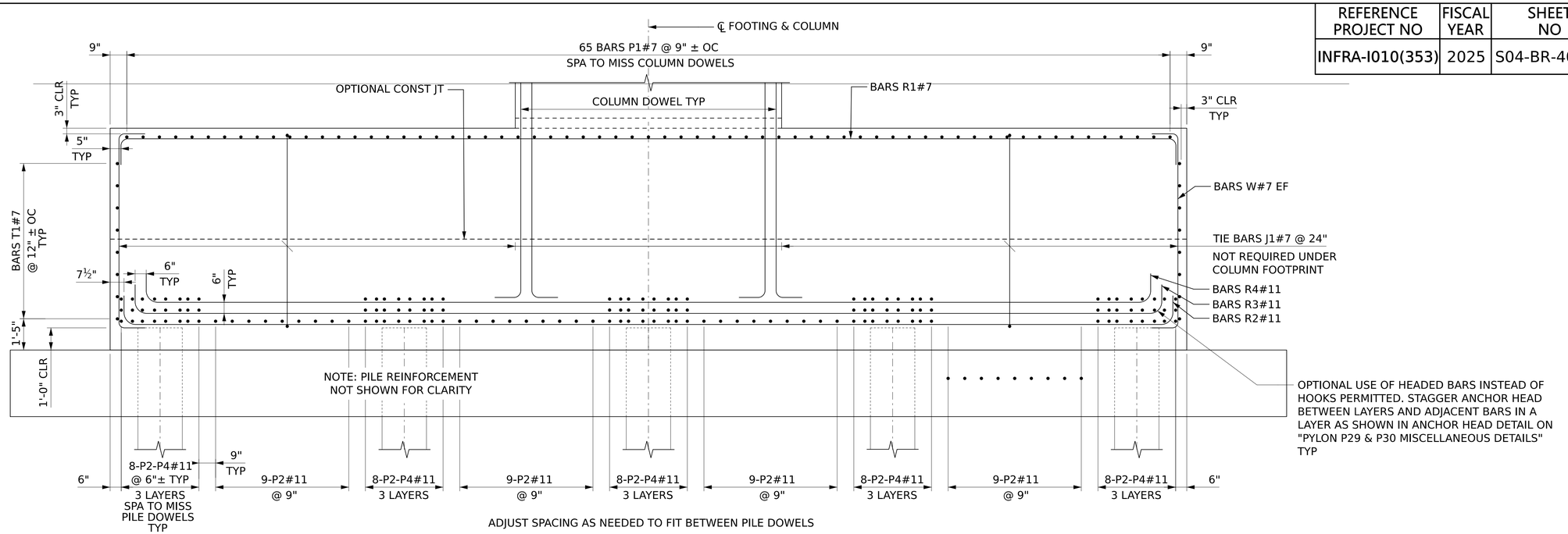
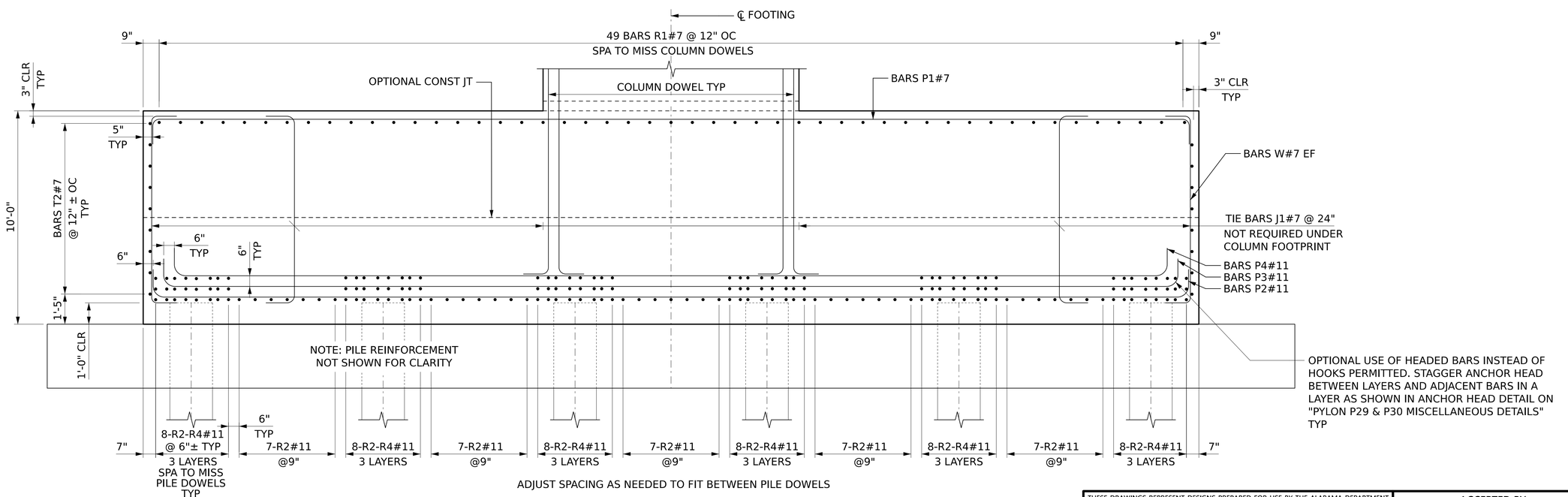
5:06:30 PM
1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40139



SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

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BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P31

FOOTING REINFORCEMENT 2

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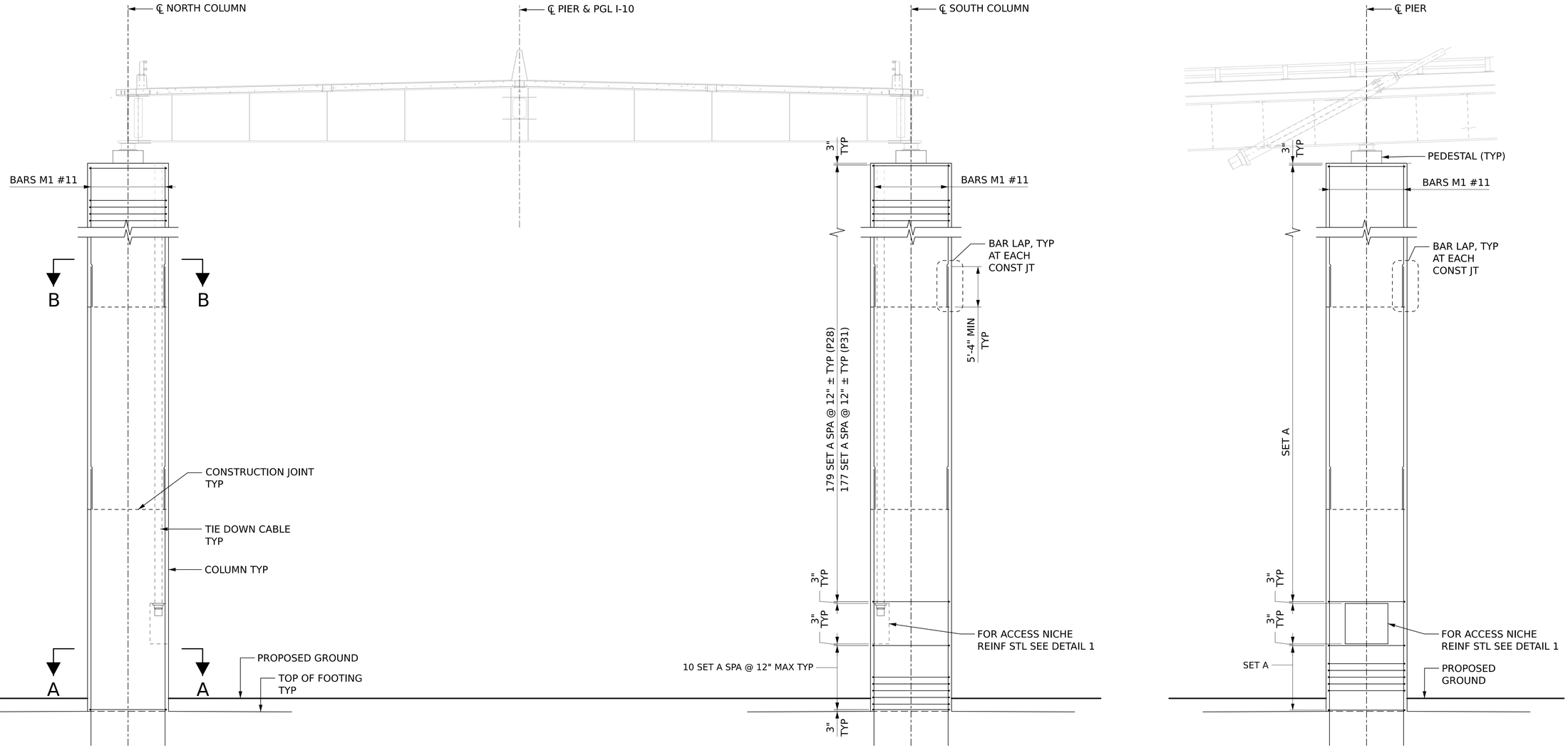
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40140



ELEVATION
SCALE: 1/8" = 1'-0"

SIDE VIEW
SCALE: 1/8" = 1'-0"

NOTE:

1. FOR SECTIONS A-A, B-B AND DETAIL 1, SEE "PIER P28 AND P31 FOOTING REINFORCEMENT 2" SHEET.
2. FOR FOOTING DETAILS, SEE "PIER P28 FOOTING REINFORCEMENT" SHEETS, AND "PIER P31 FOOTING REINFORCEMENT" SHEETS.

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BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P28 & P31

COLUMN & CAP REINFORCEMENT 1

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2:47:45 PM

3/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40141

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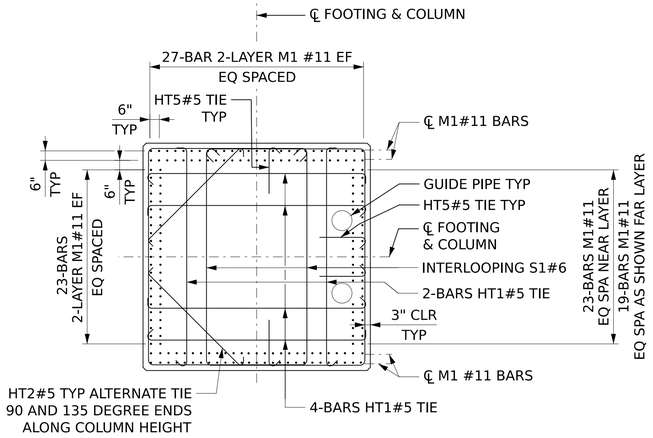
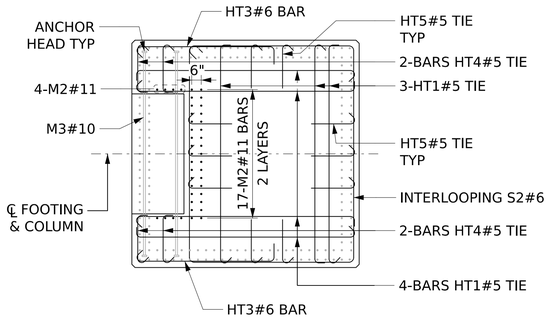
SHEET REFERENCE 0 1" 2"



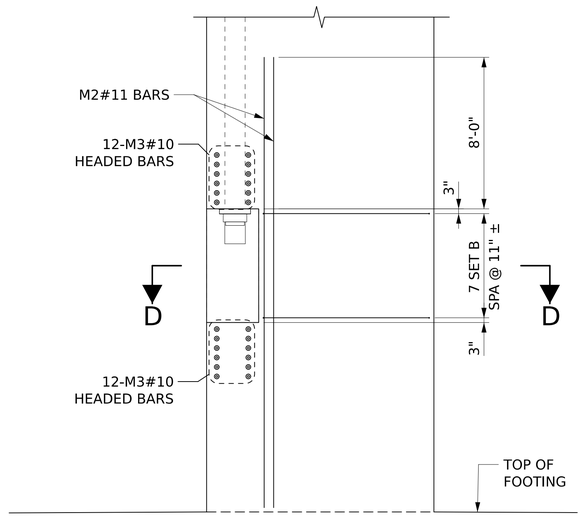
SECTION A-A
(LOWER 3 LIFTS)

SCALE: 1/4" = 1'-0"
BARS 2-S1 + 6-HT1 + 2-HT2 + 4-HT5 = 1 SET A



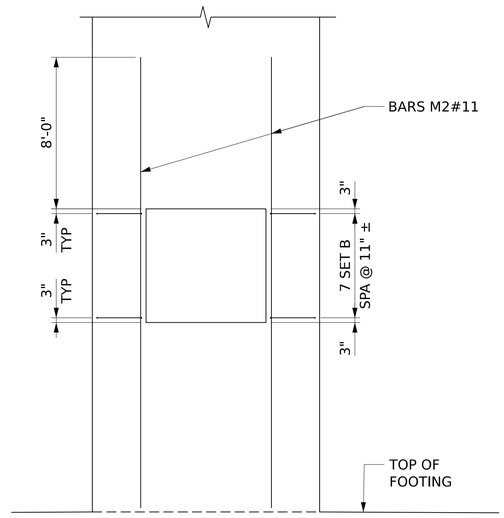
SECTION D-D

SCALE: 1/4" = 1'-0"
BARS 1-S2 + 7-HT1 + 4-HT4 + 10-HT5 + 2-HT3 = 1 SET B



ELEVATION

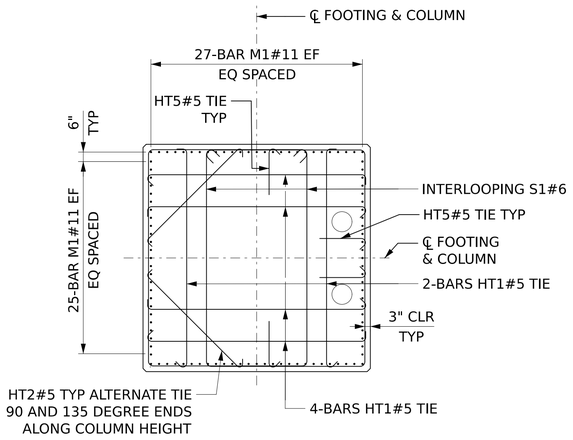
SCALE: 1/4" = 1'-0"
TYPICAL BARS NOT SHOWN



SIDE VIEW

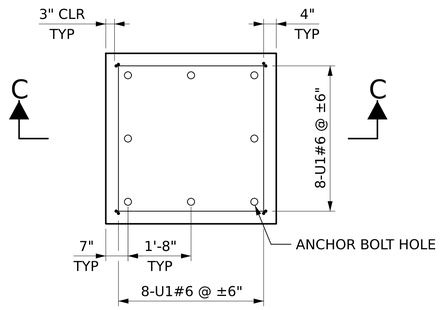
SCALE: 1/4" = 1'-0"
TYPICAL BARS NOT SHOWN

DETAIL 1



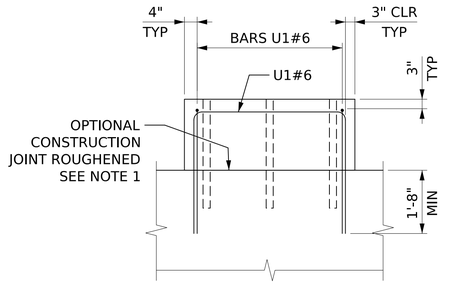
SECTION B-B

SCALE: 1/4" = 1'-0"
BARS 2-S1 + 6-HT1 + 2-HT2 + 4-HT5 = 1 SET A



PLAN

SCALE: 1/2" = 1'-0"



SECTION C-C

SCALE: 1/2" = 1'-0"

NOTE:

1. CONSTRUCTION JOINT SHALL BE ROUGHENED TO AN AMPLITUD OF ¼".

BEARING PEDESTAL REINFORCEMENT DETAIL

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60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28 & P31
COLUMN & CAP REINFORCEMENT 2

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Adriana.Albarano
2:53:39 PM
3/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40142

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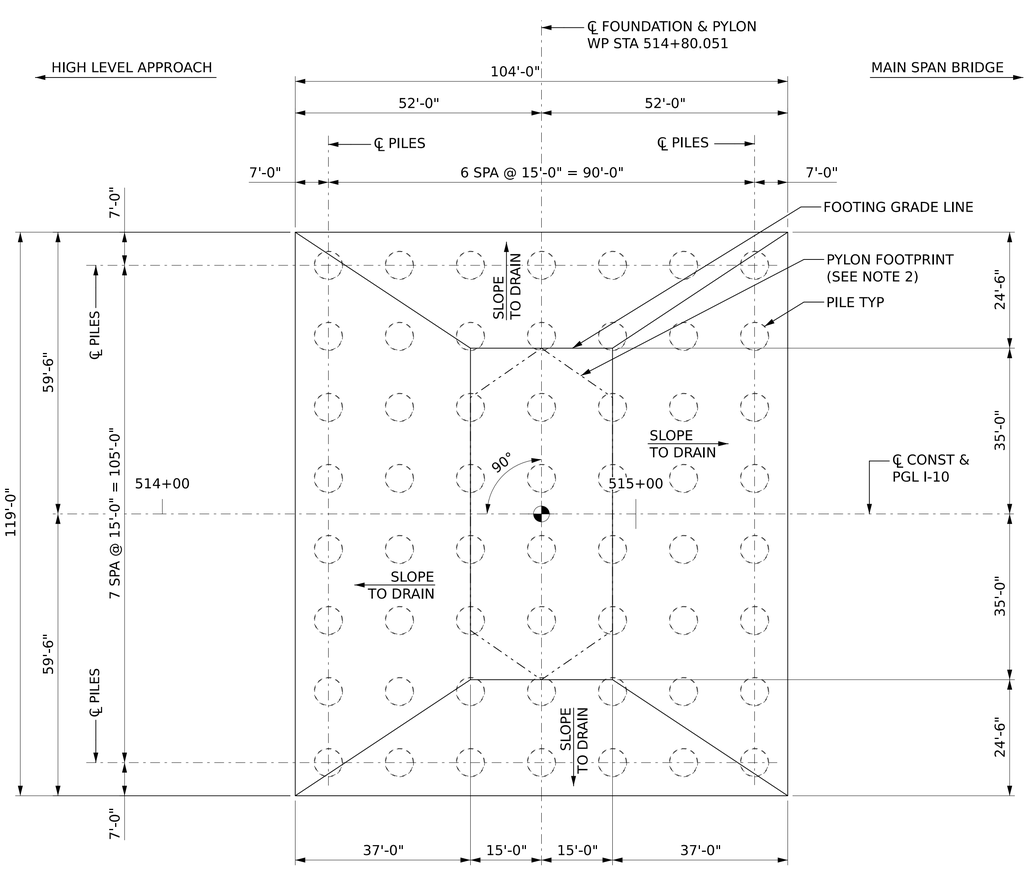
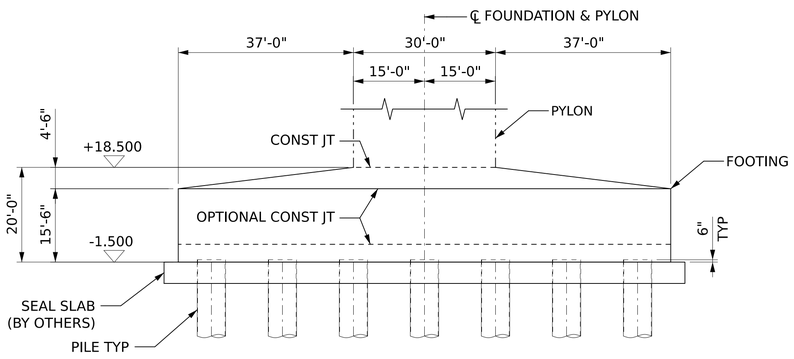
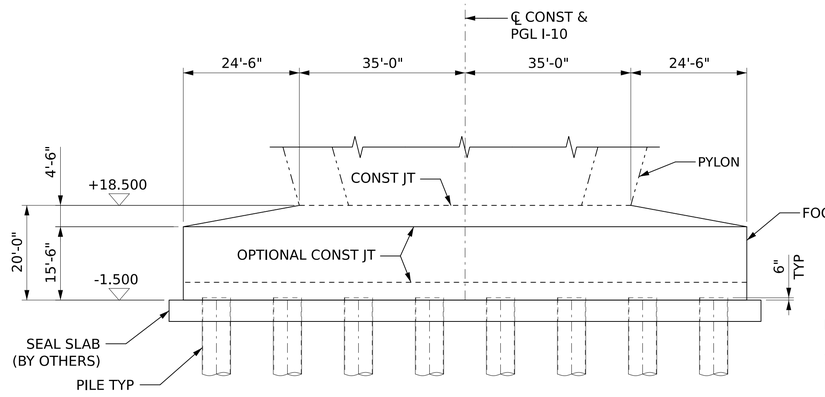


PLAN
SCALE: 1/16" = 1'-0"



LONGITUDINAL ELEVATION
SCALE: 1/16" = 1'-0"



TRANSVERSE ELEVATION
SCALE: 1/16" = 1'-0"

NOTES:

1. FOR PILE INFORMATION, SEE "FOUNDATION PILE DETAILS 3" SHEET.
2. FOR PYLON INFORMATION, SEE "PYLON P29 DIMENSIONS" AND "PYLON P29 & P30 DETAILS 1" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29
FOUNDATION DIMENSIONS

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1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40143

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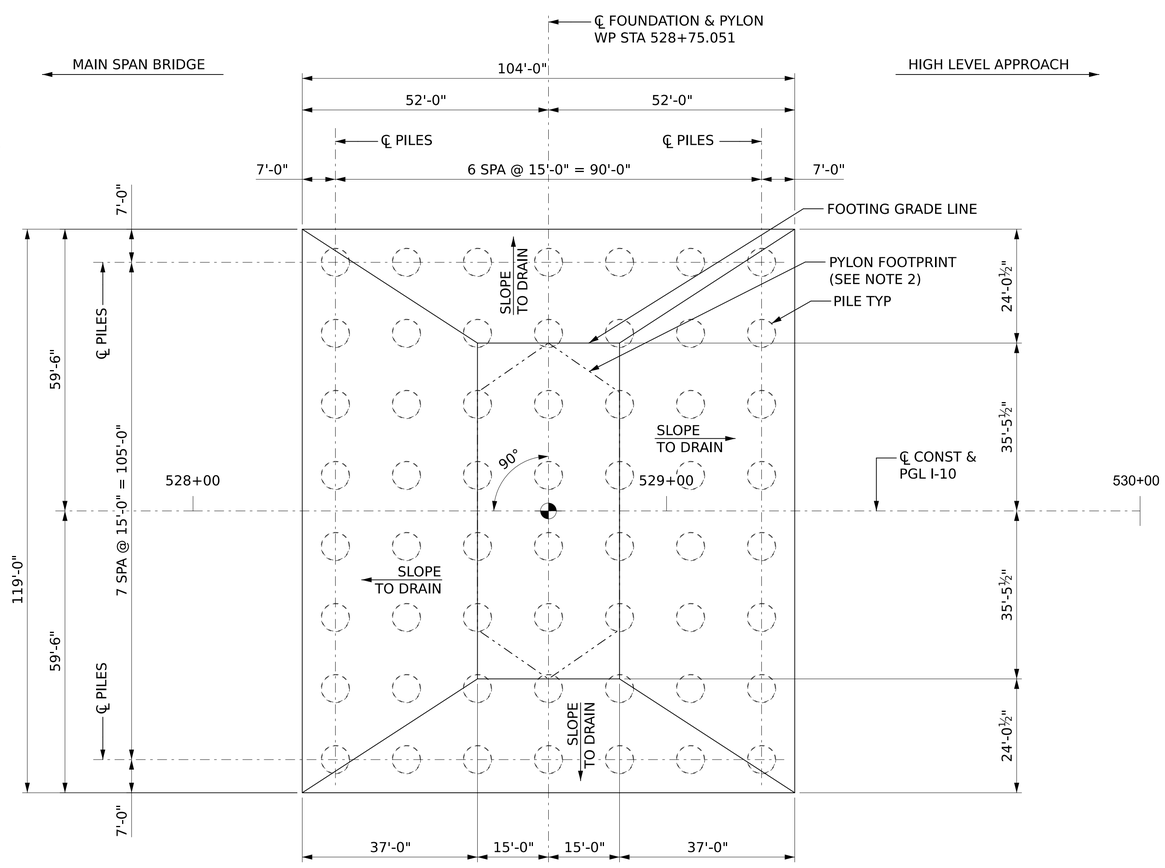
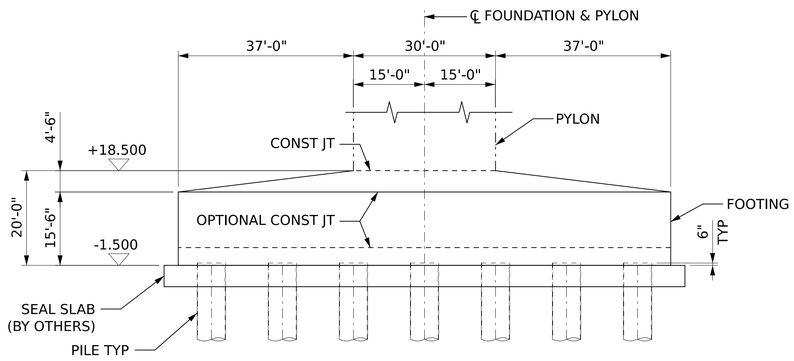
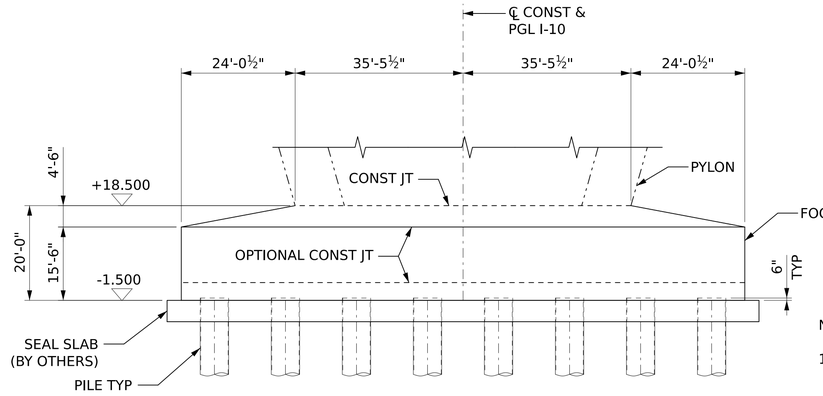


PLAN
SCALE: 1/16" = 1'-0"



LONGITUDINAL ELEVATION
SCALE: 1/16" = 1'-0"



TRANSVERSE ELEVATION
SCALE: 1/16" = 1'-0"

NOTES:

1. FOR PILE INFORMATION, SEE "FOUNDATION PILE DETAILS 3" SHEET.
2. FOR PYLON INFORMATION, SEE "PYLON P30 DIMENSIONS" AND "PYLON P29 & P30 DETAILS 1" SHEETS.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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A	KIE	02/14/2025	60% SUBMITTAL

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PLAN SUBMITTAL
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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P30
FOUNDATION DIMENSIONS

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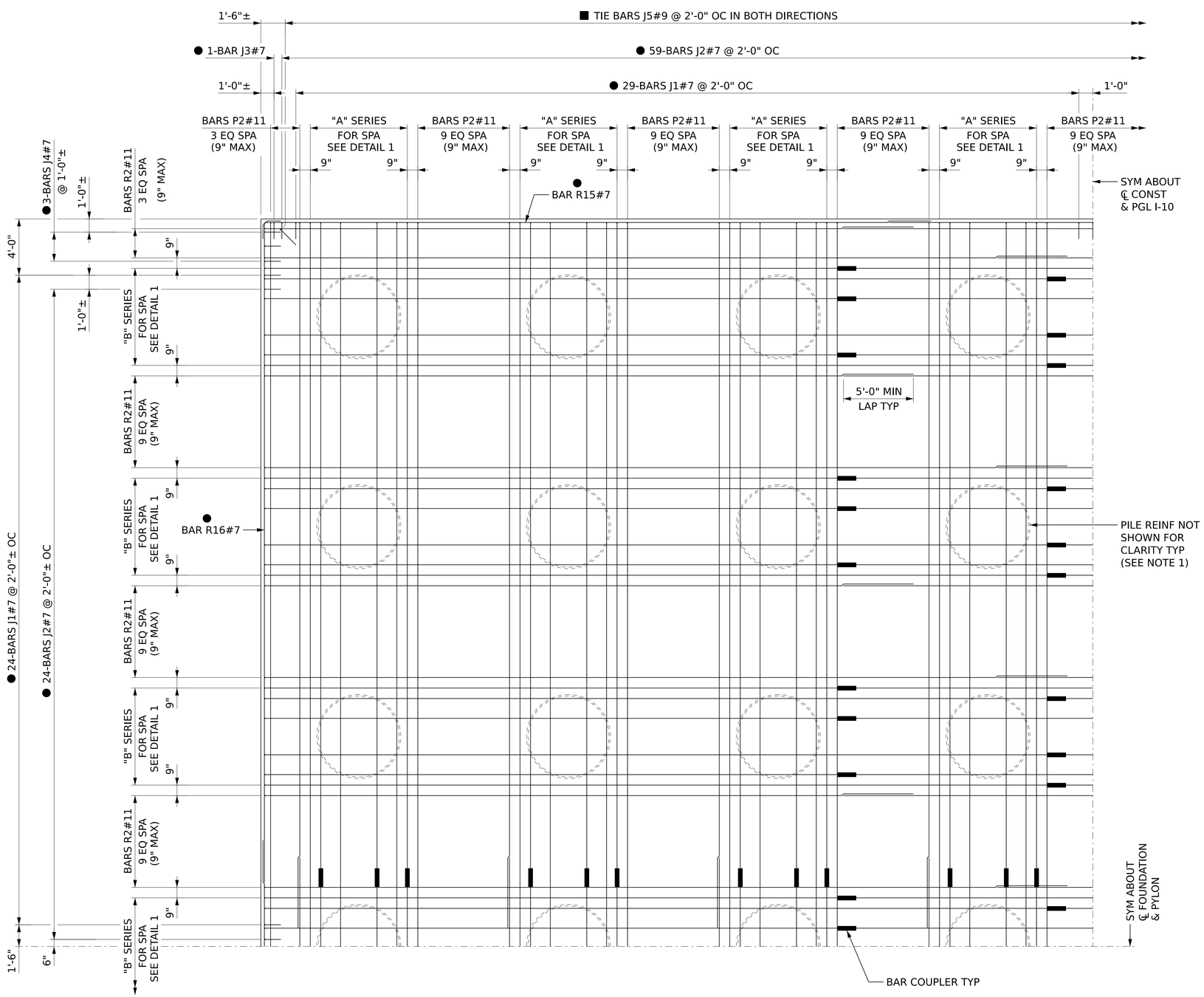
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40151



NOTES:

1. FOR DETAIL 1, SEE "PYLON P29 & P30 FOOTING REINFORCEMENT 6" SHEET.
2. ALL REINFORCEMENT IS GRADE 80, UNLESS NOTED OTHERWISE.

BAR SERIES:

"A" SERIES: BARS P1A#18 THRU P1G#18

"B" SERIES: BARS R1A#18 THRU R1D#18

LEGEND:

■ BARS NOT REQUIRED IN THE PYLON FOOT PRINT REGION OR OVER THE PILES.

● GRADE 60

PLAN - BOTTOM

SCALE: 1/4" = 1'-0"

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PLAN SUBMITTAL

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COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
FOOTING REINFORCEMENT 1

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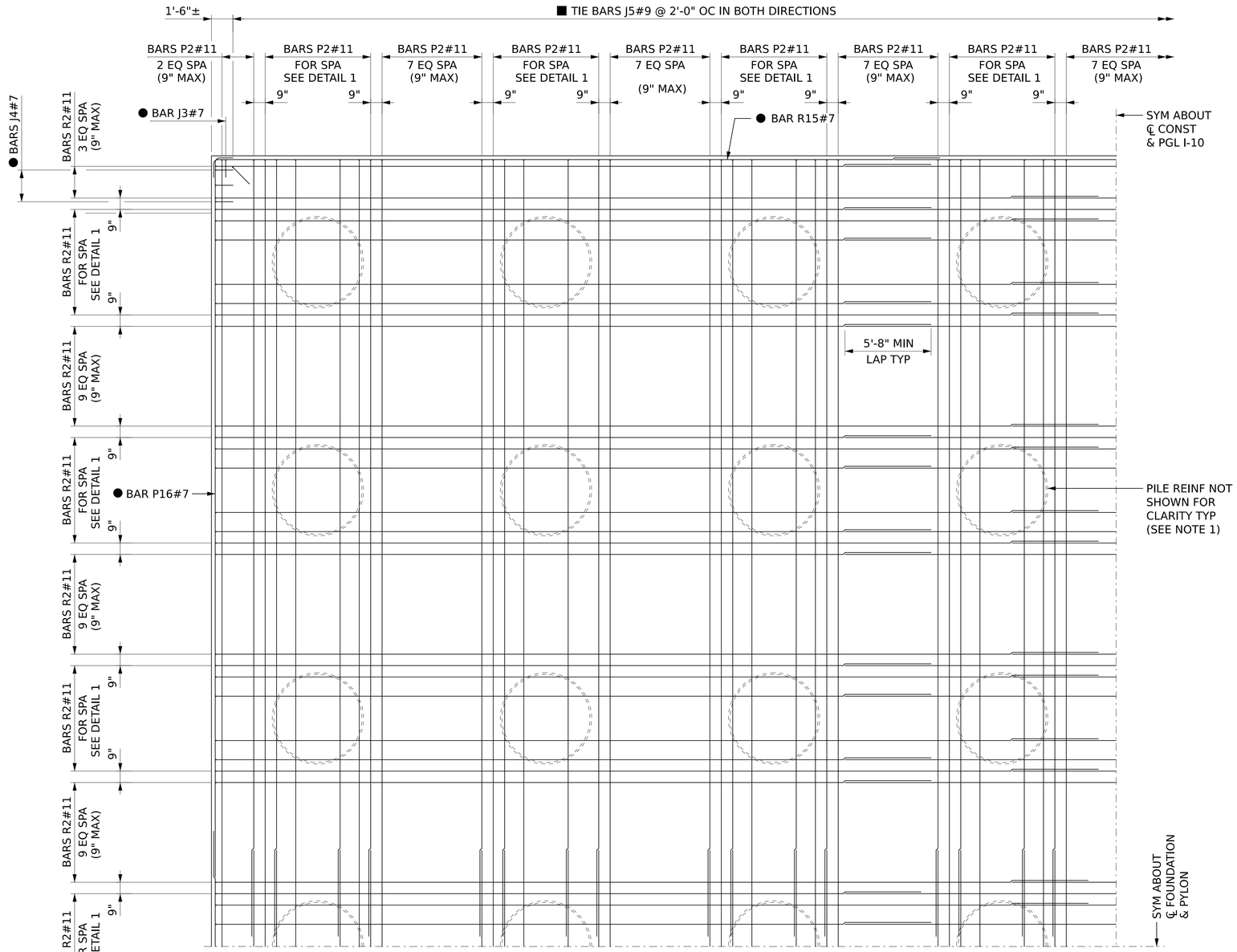
1/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40152



PLAN - TOP AT ELEVATION +14.000

SCALE: 1/4" = 1'-0"

PYLON LEG DOWELS NOT SHOWN FOR CLARITY

NOTES:

1. FOR DETAIL 1 AND PYLON LEG DOWELS, SEE "PYLON P29 & P30 FOOTING REINFORCEMENT 6" SHEET.
2. ALL REINFORCEMENT IS GRADE 80, UNLESS NOTED OTHERWISE.

LEGEND:

■ BARS NOT REQUIRED IN THE PYLON FOOT PRINT REGION OR OVER THE PILES.

● GRADE 60

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	KIE	02/14/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

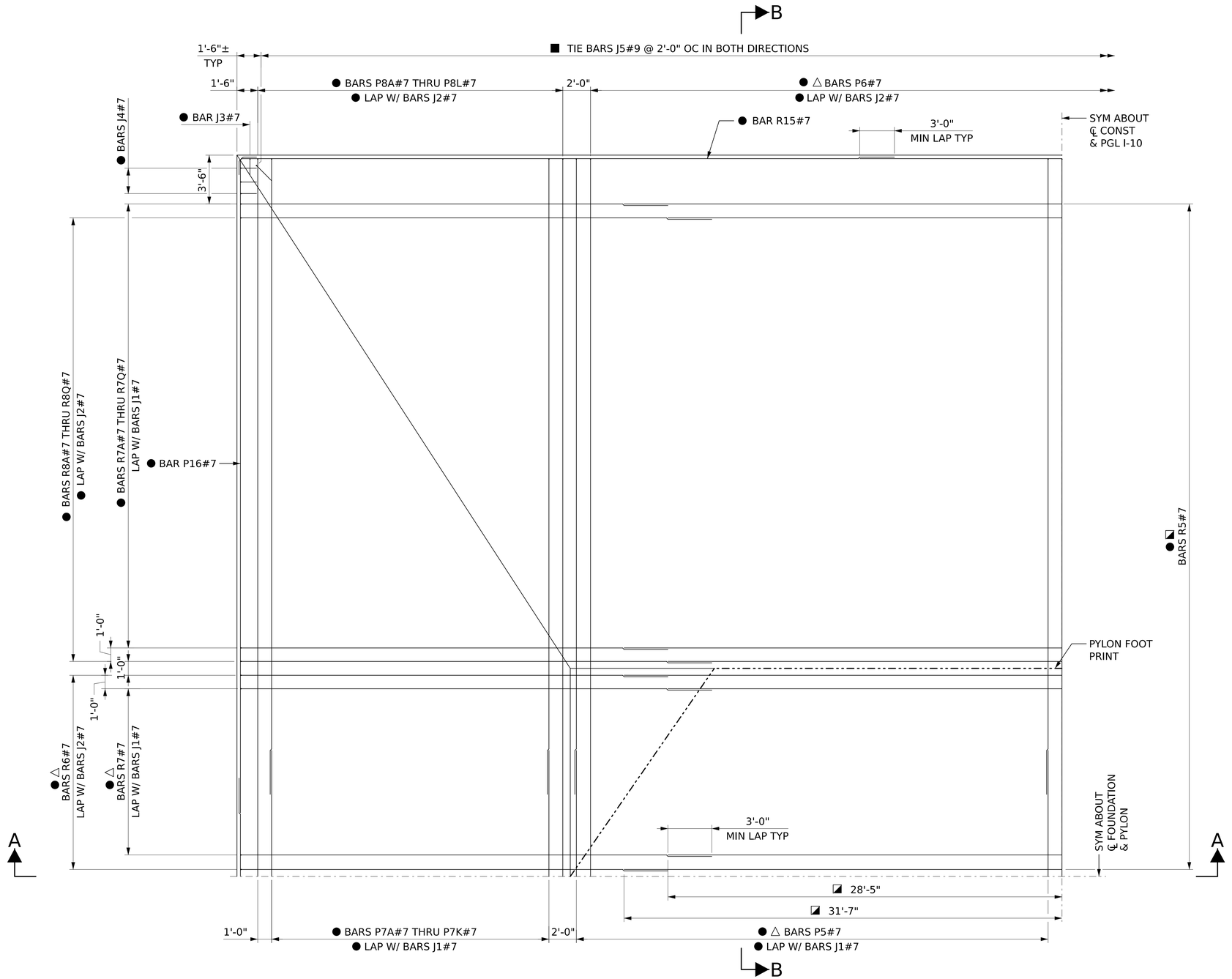
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
FOOTING REINFORCEMENT 2

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40153

NOTES:

1. ALL REINFORCEMENT IS GRADE 80, UNLESS NOTED OTHERWISE.



PLAN - TOP AT ELEVATION +18.500

SCALE: 1/4" = 1'-0"

PYLON LEG DOWELS NOT SHOWN FOR CLARITY

LEGEND:

- ■ BARS NOT REQUIRED IN THE PYLON FOOT PRINT REGION OR OVER THE PILES.
- ● GRADE 60
- △ LOCATION OF NOTED BARS MAY BE ADJUSTED TO AVOID CONFLICTS WITH THE APPROVAL OF THE ENGINEER OF RECORD.
- ◪ ALTERNATE BAR POSITION EVERY OTHER BAR RELATIVE TO THE ℄ I-10.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

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COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

FOOTING REINFORCEMENT 3

PRELIMINARY
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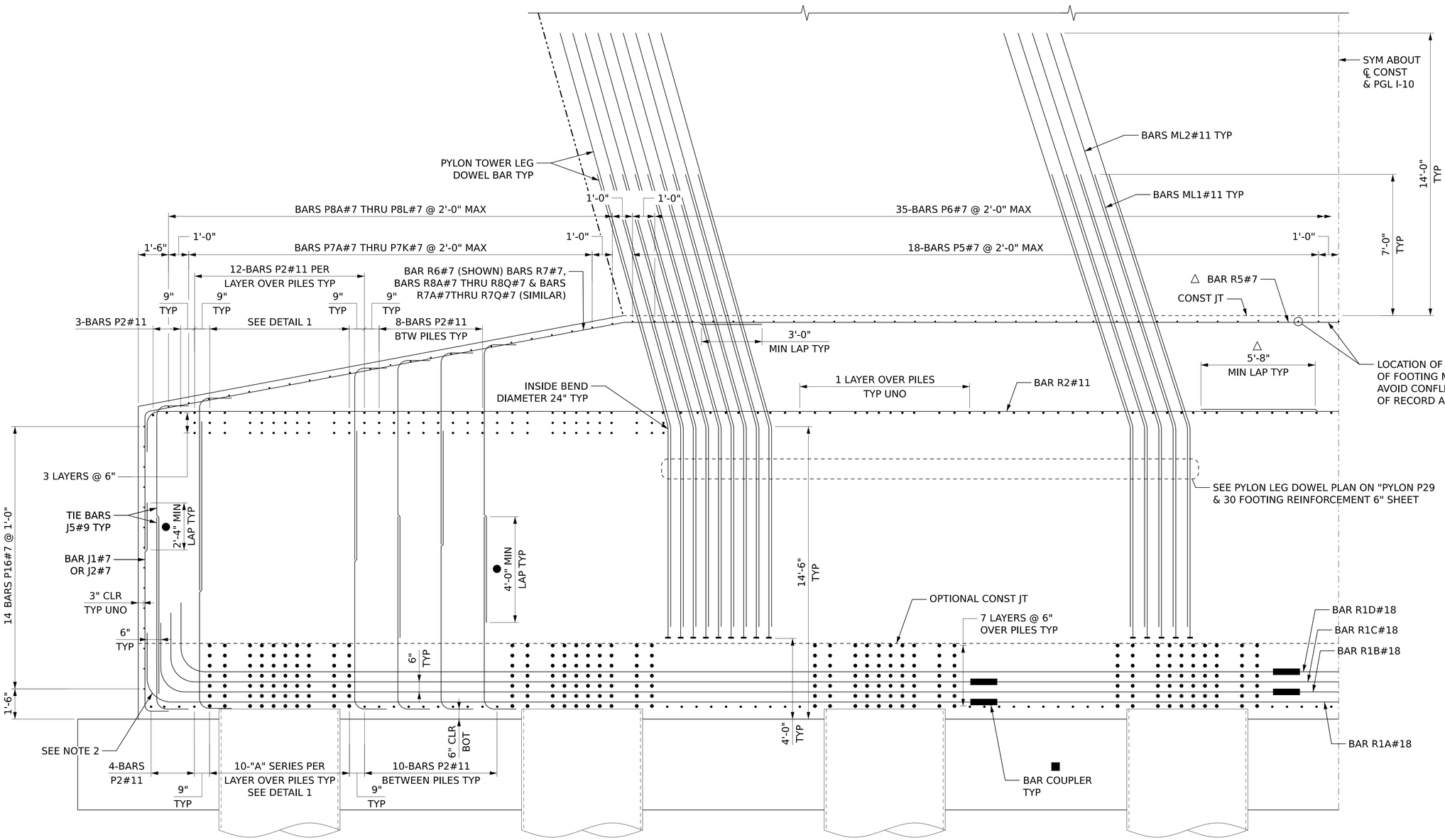
1/27/2025

2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40154

NOTES:

1. FOR DETAIL 1, SEE "PYLON P29 & P30 REINFORCEMENT 6" SHEET.
2. OPTIONAL USE OF HEADED BARS INSTEAD OF HOOKS PERMITTED. STAGGER ANCHOR HEADS BETWEEN LAYERS AND ADJACENT BARS IN A LAYER AS SHOWN IN ANCHOR HEAD DETAIL ON "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.



SECTION A-A

SCALE: 3/8" = 1'-0"

LEGEND:

- ■ ALTERNATE BAR COUPLER LOCATION PER LAYER RELATIVE TO THE ℄ I-10.
- △ ALTERNATE LAP LOCATION EVERY OTHER BAR RELATIVE TO THE ℄ I-10.
- ● ALTERNATE LAP LOCATION EVERY OTHER BAR RELATIVE TO THE TOP AND BOTTOM OF FOOTING.

BAR SERIES:

"A" SERIES: BARS P1A#18 THRU P1G#18

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BRIDGE ENGINEER DATE

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

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DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

FOOTING REINFORCEMENT 4

PRELIMINARY

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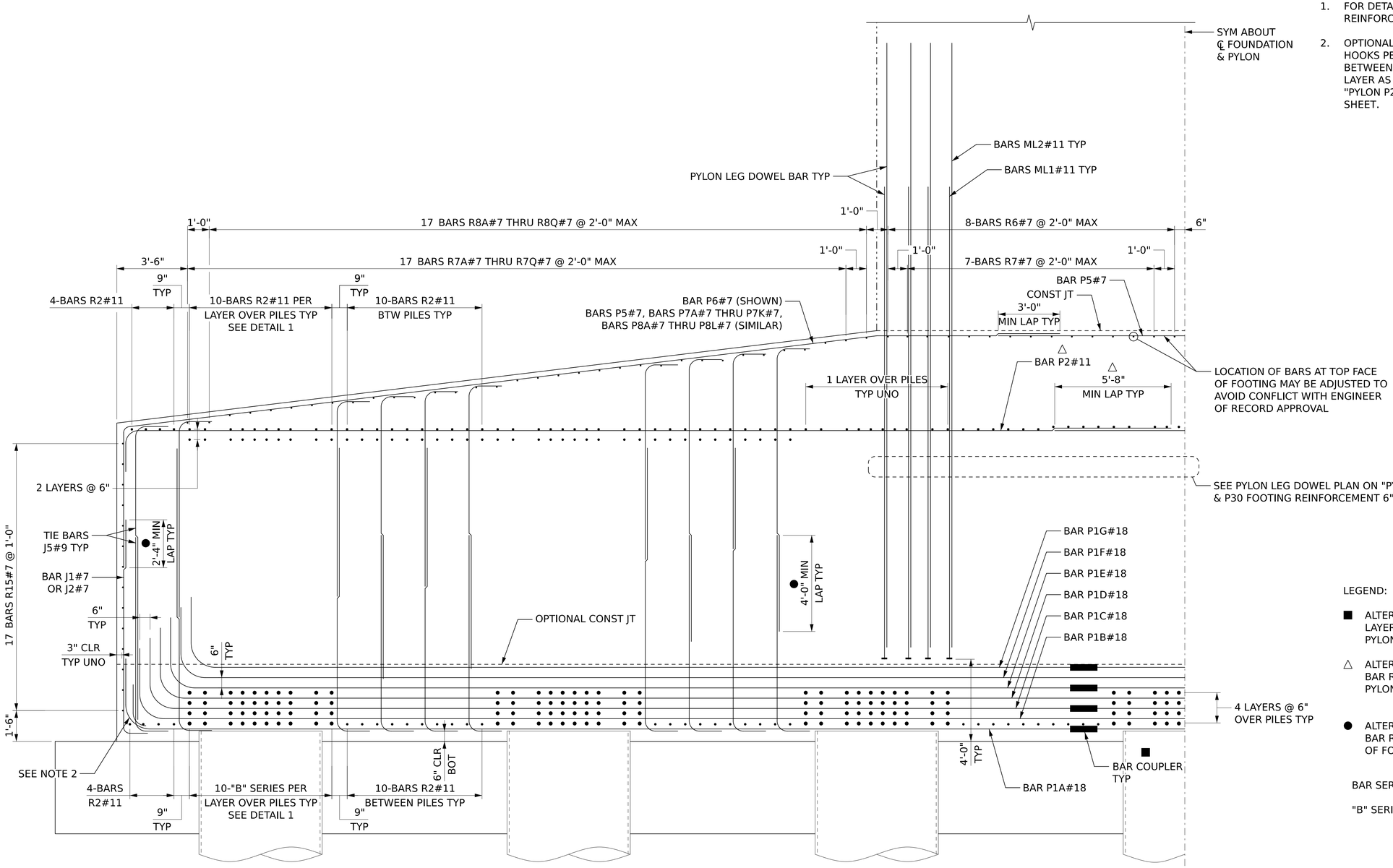
1/28/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40155

NOTES:

1. FOR DETAIL 1, SEE "PYLON P29 & P30 REINFORCEMENT 6" SHEET.
2. OPTIONAL USE OF HEADED BARS INSTEAD OF HOOKS PERMITTED. STAGGER ANCHOR HEADS BETWEEN LAYERS AND ADJACENT BARS IN A LAYER AS SHOWN IN ANCHOR HEAD DETAIL ON "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.



LEGEND:

■ ALTERNATE BAR COUPLER LOCATION PER LAYER RELATIVE TO THE ℄ FOUNDATION & PYLON.

△ ALTERNATE LAP LOCATION EVERY OTHER BAR RELATIVE TO THE ℄ FOUNDATION & PYLON.

● ALTERNATE LAP LOCATION EVERY OTHER BAR RELATIVE TO THE TOP AND BOTTOM OF FOOTING.

BAR SERIES:

"B" SERIES: BARS R1A#18 THRU R1D#18

SECTION B-B

SCALE: 3/8" = 1'-0"

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

FOOTING REINFORCEMENT 5

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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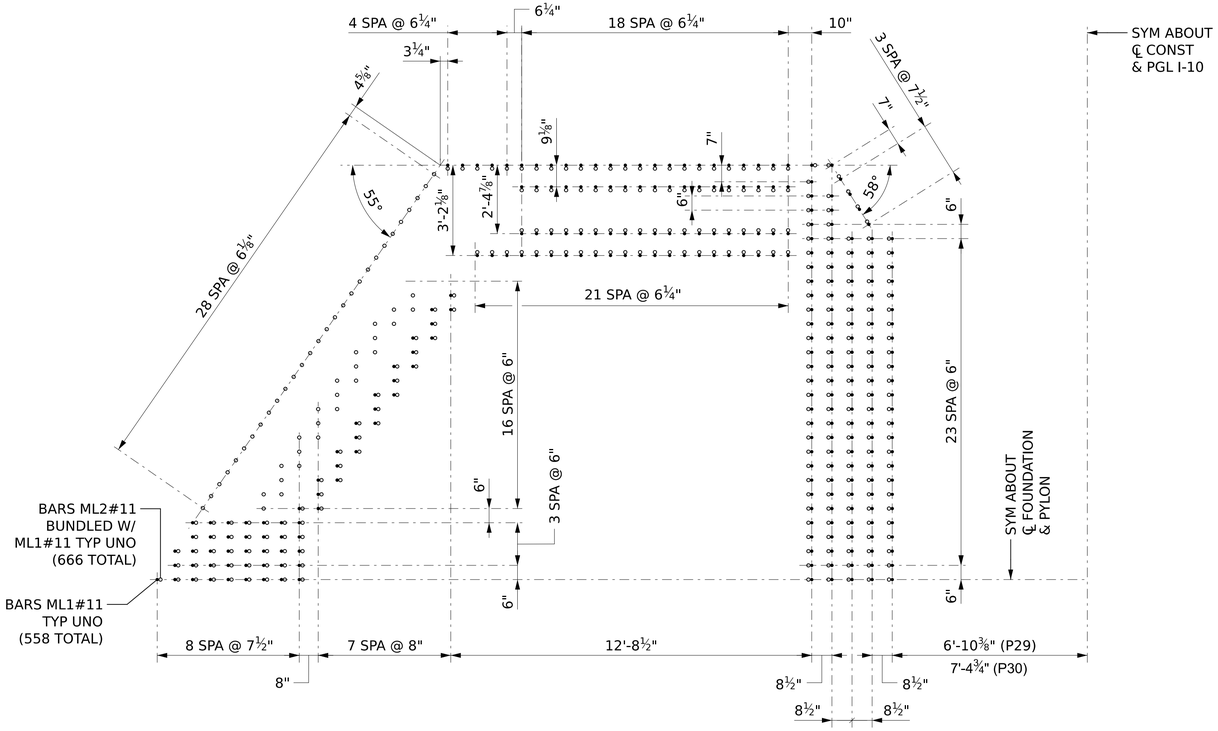
1/28/2025

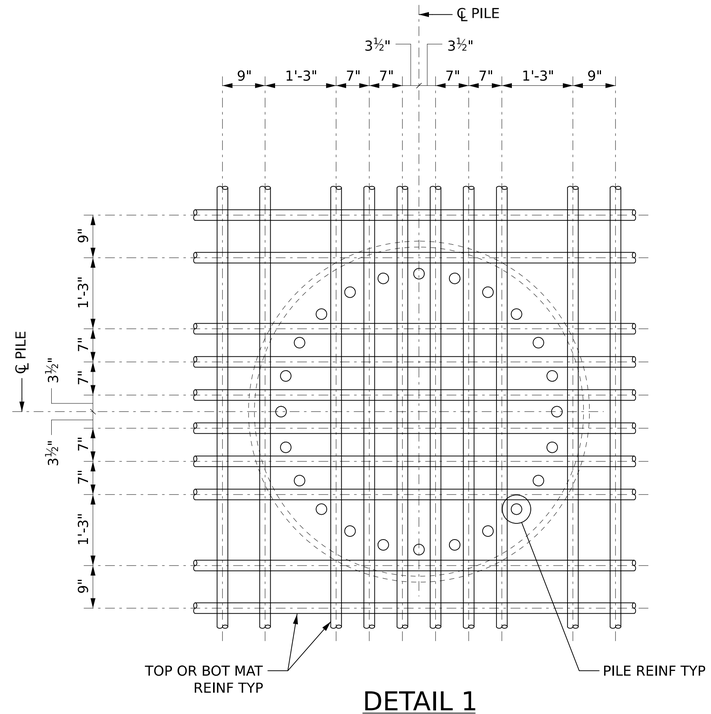
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40156



PYLON LEG DOWEL PLAN AT ELEVATION +12.000

SCALE: 3/8" = 1'-0"

PYLON FOOTING VERTICAL TIE BARS AND PIPE PILE DOWELS ARE NOT SHOWN FOR CLARITY



DETAIL 1

SCALE: 3/4" = 1'-0"

NOTES:

1. TOWER LEG DOWELS SHALL BE PLACED TO MISS FOOTING REINFORCEMENT AND BE LOCATED SO THE MAXIMUM DISTANCE FROM CENTERLINE OF DOWEL TO PLAN LOCATION OF THE CORRESPONDING TOWER LEG BARS SHALL BE 6 INCHES OR LESS (MEET REQUIREMENTS OF NON-CONTACT LAP SPLICE).
2. OPTIONAL USE OF HEADED BARS IN-LIEU OF HOOKS PERMITTED. STAGGER ANCHOR HEADS BETWEEN LAYERS AND ADJACENT BARS AS SHOWN IN ANCHOR HEAD DETAIL ON "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. MAIN REINFORCEMENT IN BOTTOM OF FOOTING SHALL BE PLACED TO CLEAR VERTICAL PIPE PILE REINFORCEMENT.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 02/14/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

FOOTING REINFORCEMENT 6

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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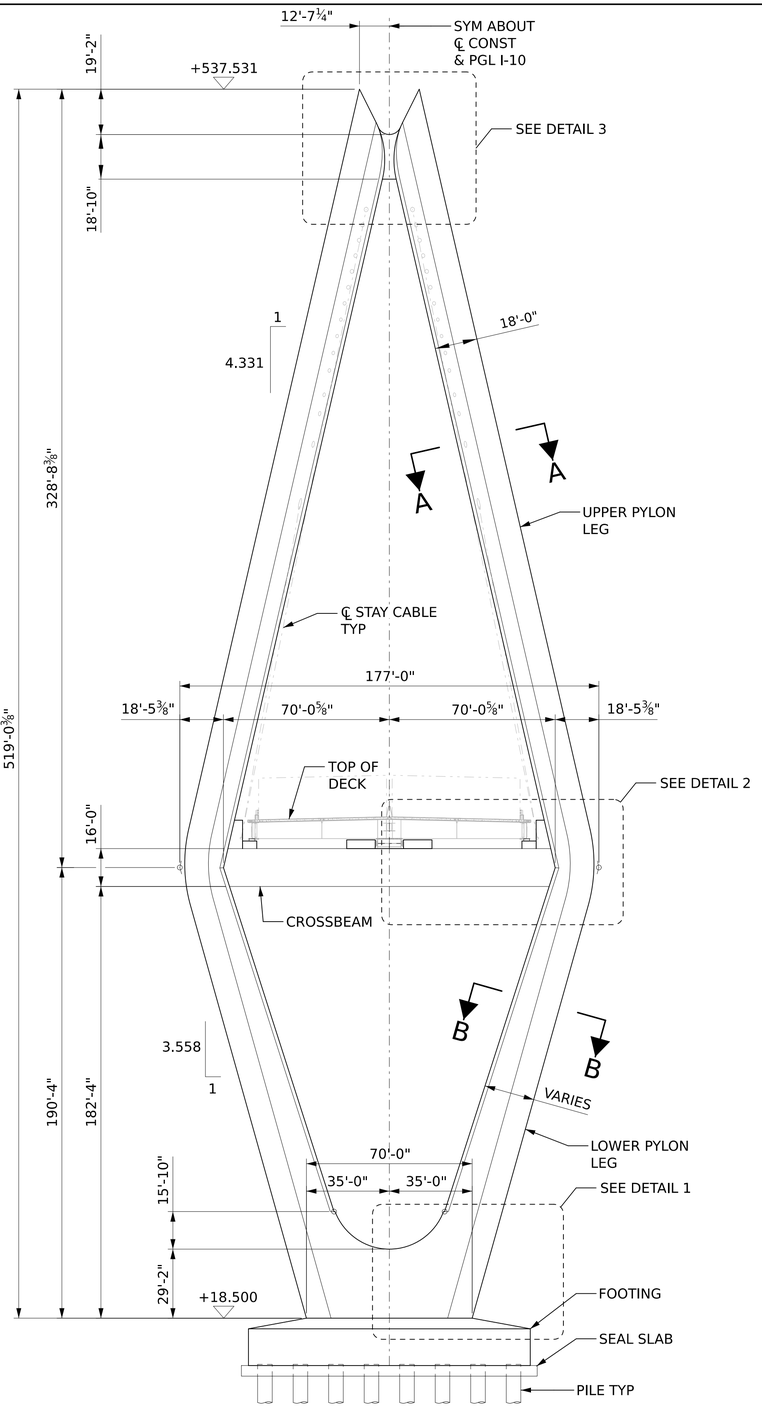
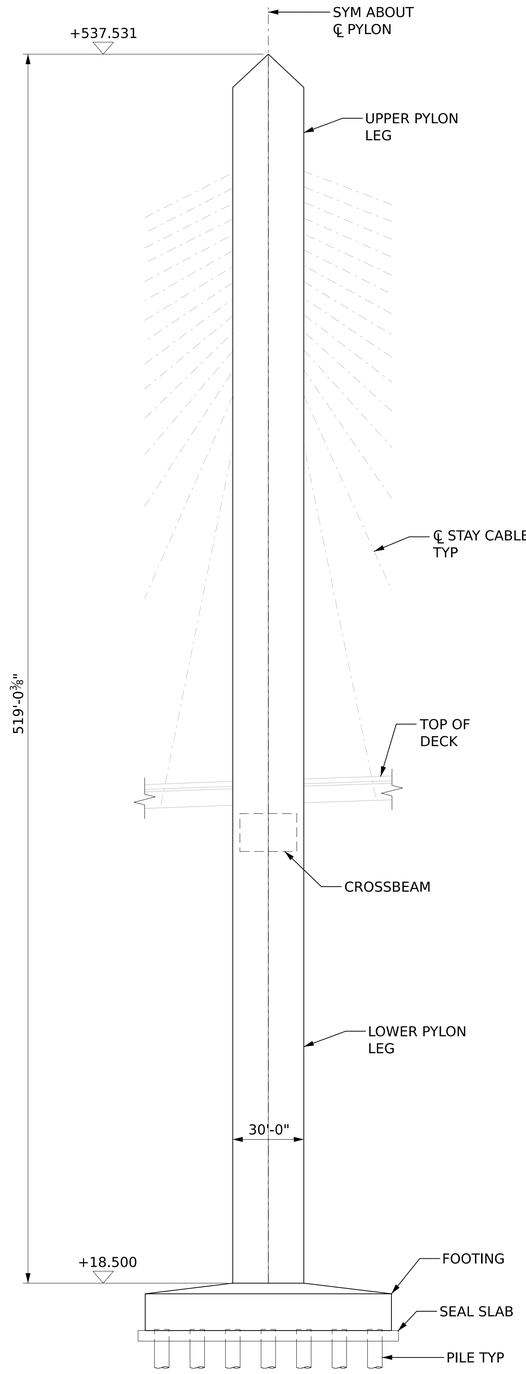
1/27/2025

SHEET REFERENCE 0 1" 2"

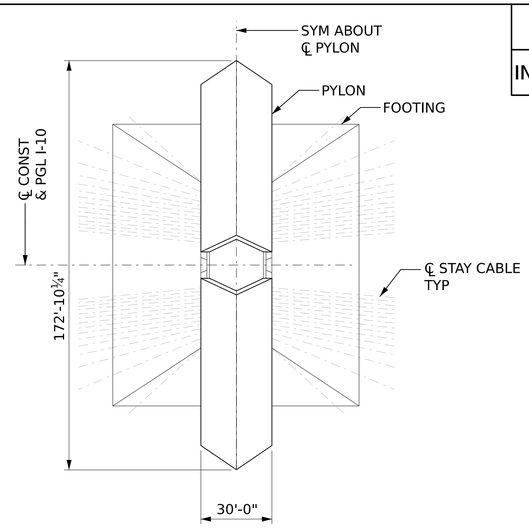
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40165



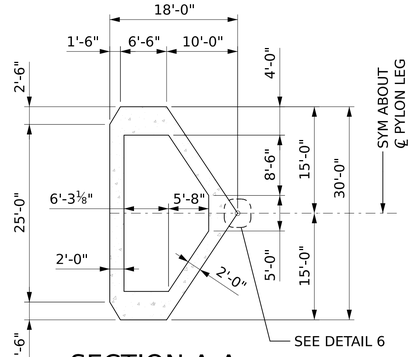
TRANSVERSE ELEVATION
SCALE: NTS



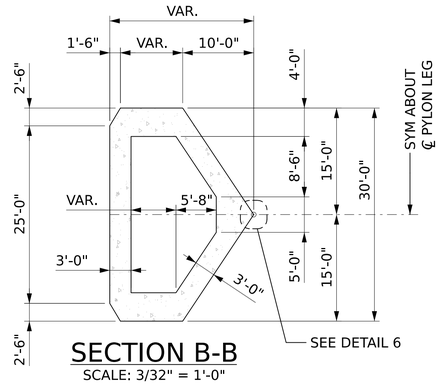
LONGITUDINAL ELEVATION
SCALE: NTS



PYLON TOP VIEW
SCALE: NTS



SECTION A-A
SCALE: 3/32" = 1'-0"



SECTION B-B
SCALE: 3/32" = 1'-0"

NOTES:

1. FOR DETAILS 1, 2 AND 6, SEE "PYLON P29 & P30 DETAILS 1" SHEET.
2. FOR DETAIL 3, SEE "PYLON P29 & P30 DETAILS 3" SHEET.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29

DIMENSIONS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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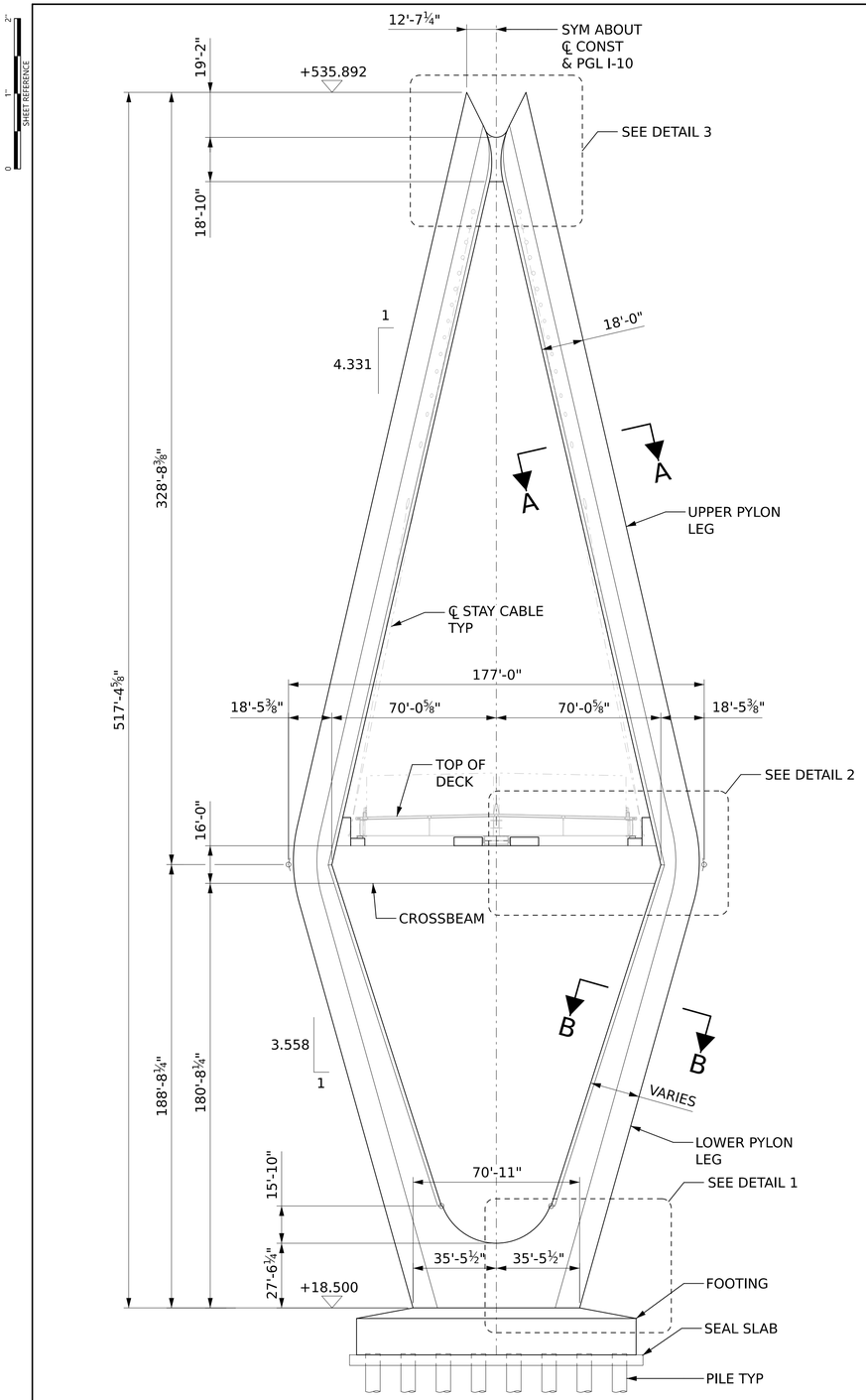
7:39:05 PM

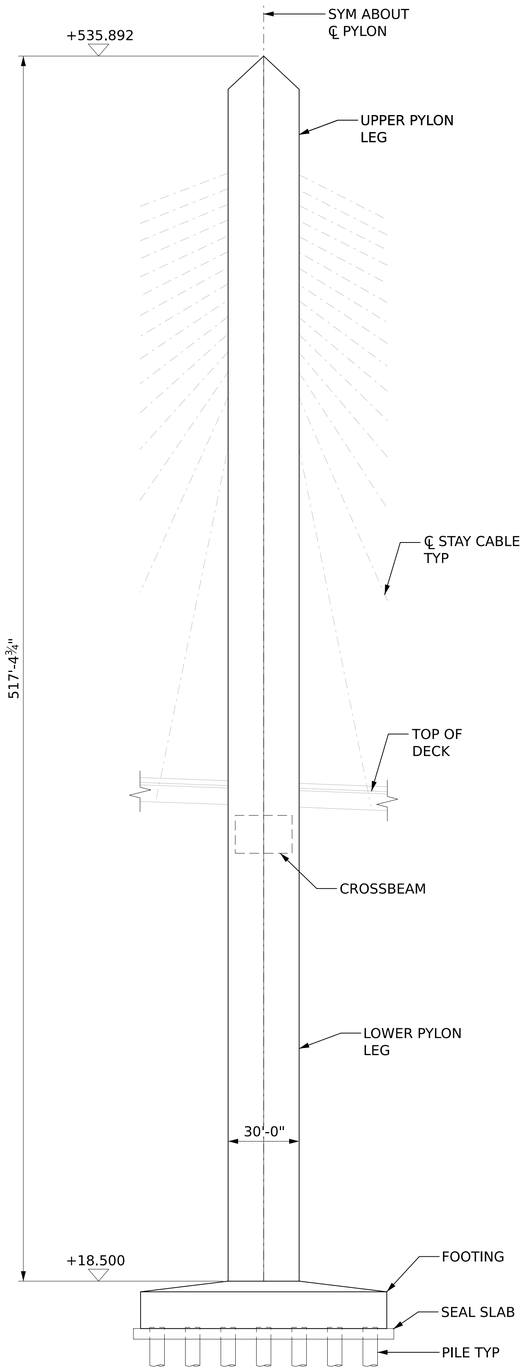
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40166



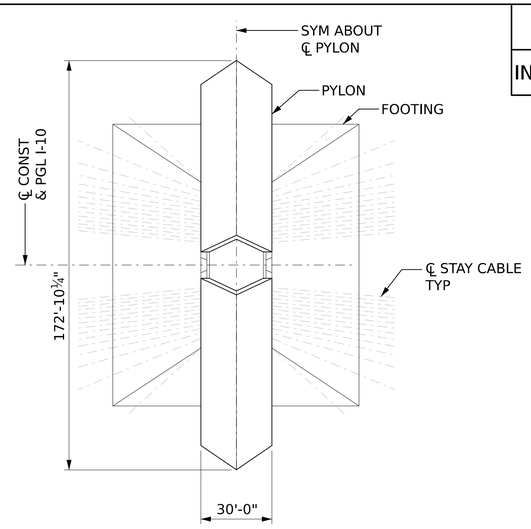
TRANSVERSE ELEVATION

SCALE: NTS



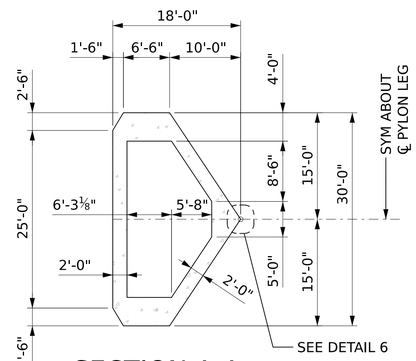
LONGITUDINAL ELEVATION

SCALE: NTS



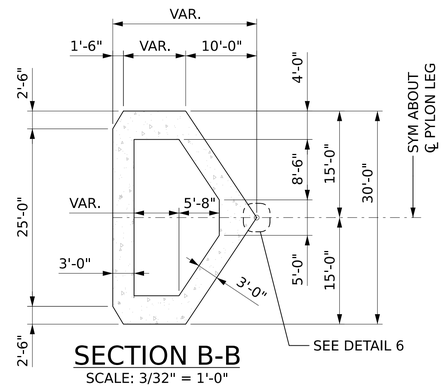
PYLON TOP VIEW

SCALE: NTS



SECTION A-A

SCALE: 3/32" = 1'-0"



SECTION B-B

SCALE: 3/32" = 1'-0"

NOTES:

1. FOR DETAILS 1, 2 AND 6, SEE "PYLON P29 & P30 DETAILS 1" SHEET.
2. FOR DETAIL 3, SEE "PYLON P29 & P30 DETAILS 3" SHEET.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P30

DIMENSIONS

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3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40167

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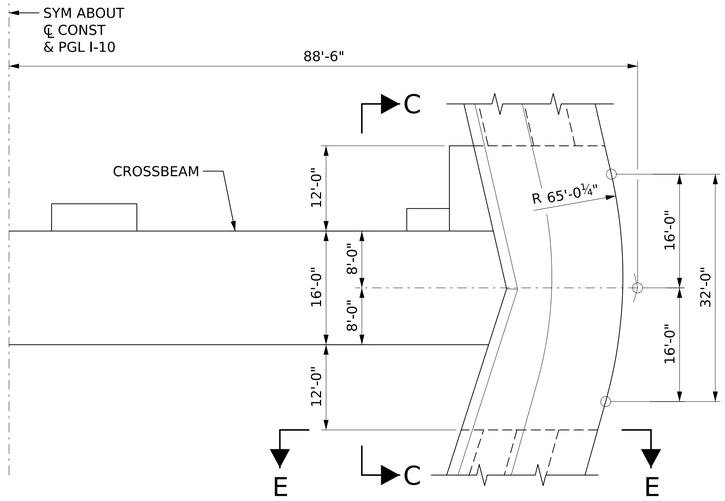
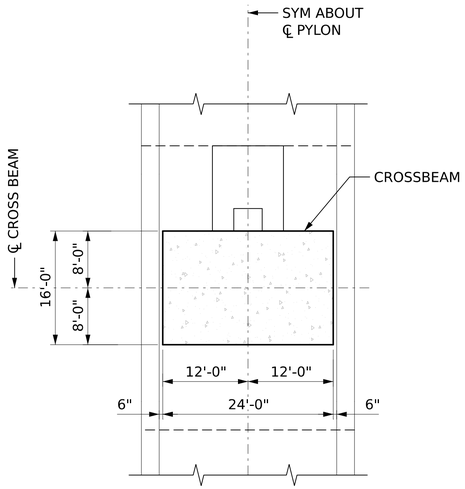
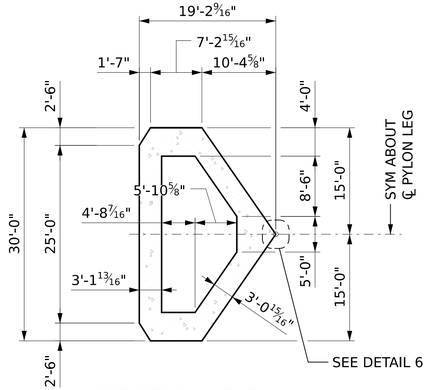


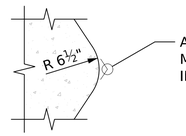
DETAIL 2
SCALE: 3/32" = 1'-0"



SECTION C-C
SCALE: 3/32" = 1'-0"

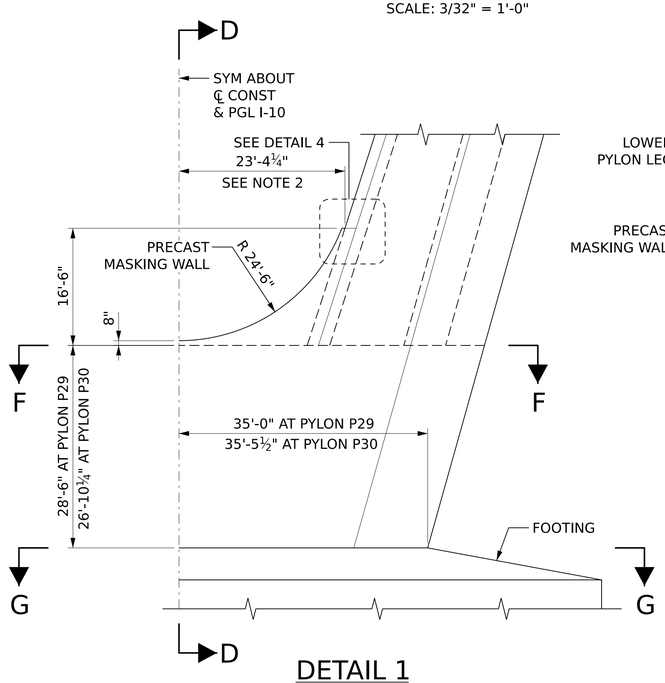


SECTION E-E
SCALE: 3/32" = 1'-0"
AT ELEVATION +188.833 (P29)
AT ELEVATION +187.188 (P30)

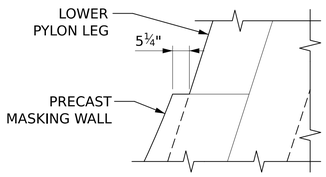


ALL PYLON DIMENSIONS ARE MEASURED TO THE TANGENT INTERSECTION POINT

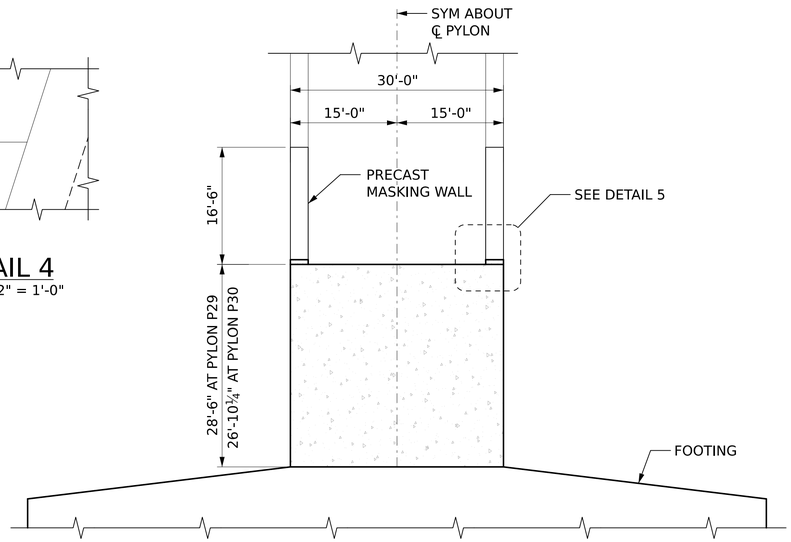
DETAIL 6
SCALE: 1" = 1'-0"



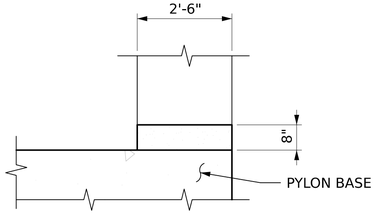
DETAIL 1
SCALE: 3/32" = 1'-0"



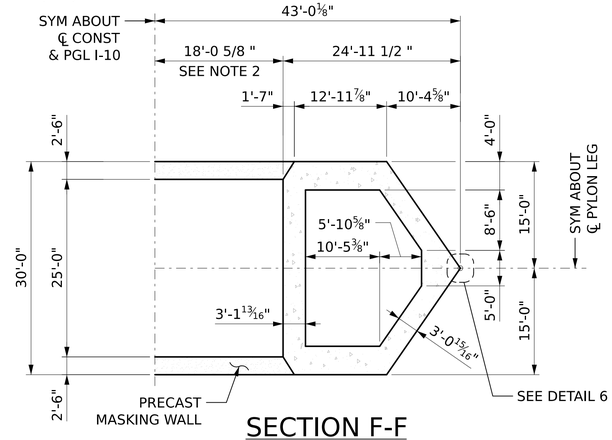
DETAIL 4
SCALE: 1/2" = 1'-0"



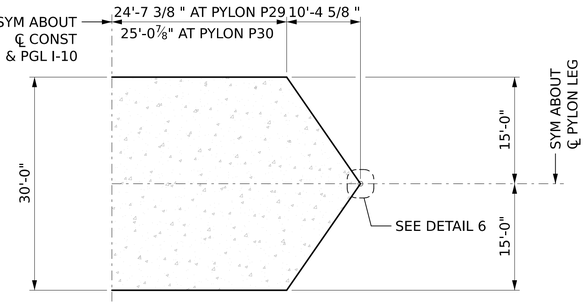
SECTION D-D
SCALE: 3/32" = 1'-0"



DETAIL 5
SCALE: 1/2" = 1'-0"



SECTION F-F
AT ELEVATION +47.000 (P29)
AT ELEVATION +45.354 (P30)
SCALE: 3/32" = 1'-0"



SECTION G-G
SCALE: 3/32" = 1'-0"
AT ELEVATION +18.500 (P29)
AT ELEVATION +18.500 (P30)
FOOTING NOT SHOWN

NOTES:

1. FOR LOCATION OF DETAILS 1 AND 2, SEE "PYLON P29 DIMENSIONS" AND "PYLON P30 DIMENSIONS" SHEETS.
2. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF MASKING WALLS.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

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MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PYLON P29 & P30
DETAILS 1

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40168

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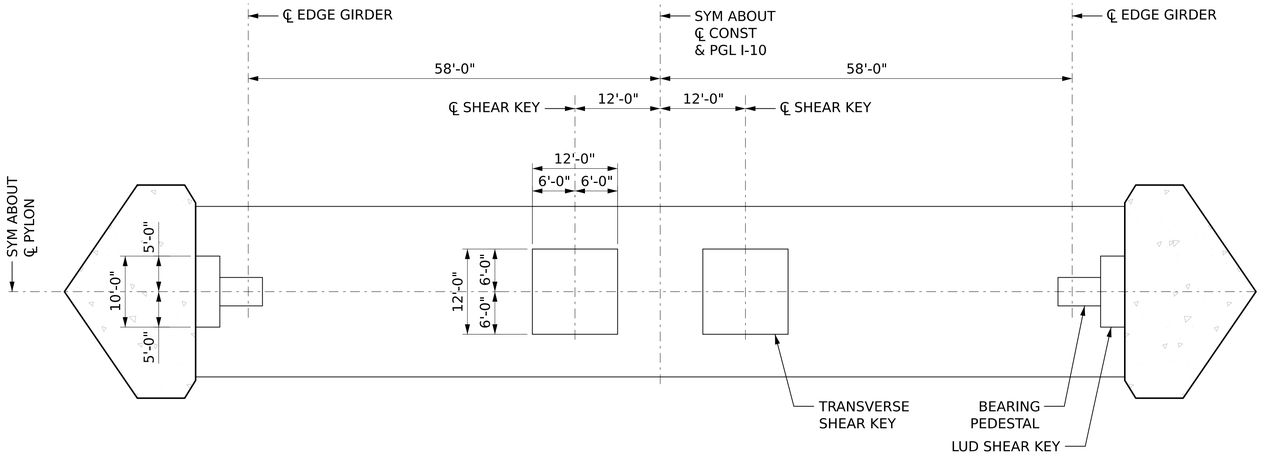
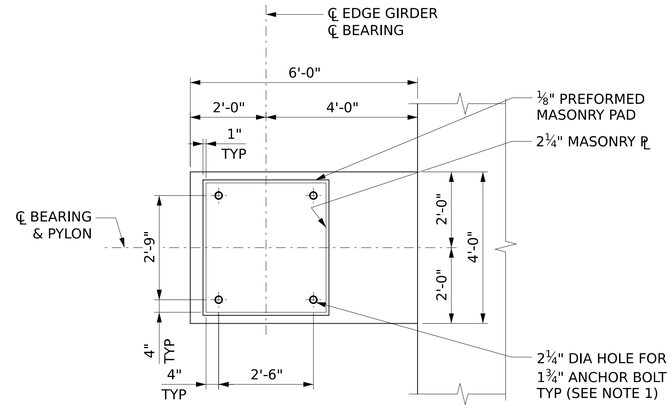


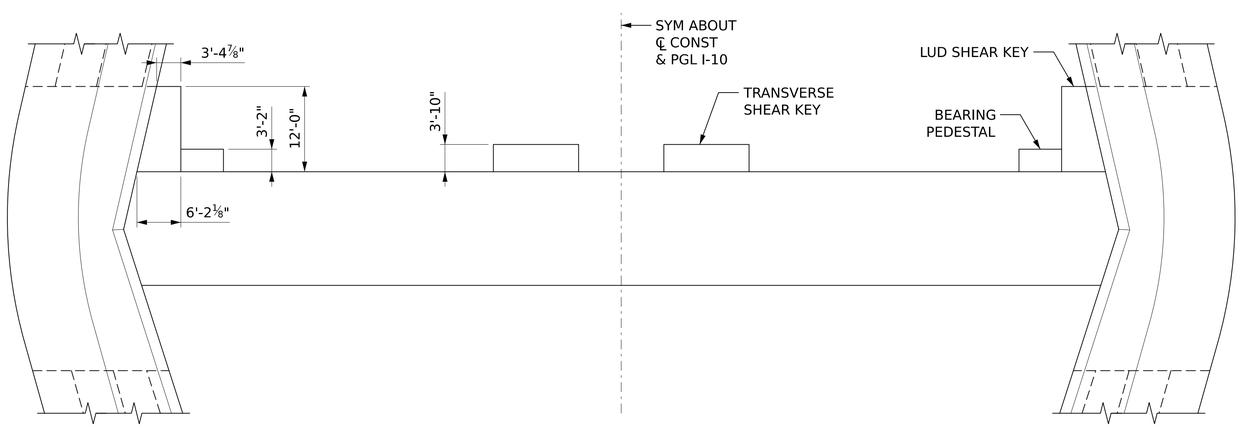
PYLON CROSSBEAM - PLAN

SCALE: 3/32" = 1'-0"



BEARING PEDESTAL DETAIL

SCALE: 1/2" = 1'-0"



PYLON CROSSBEAM - ELEVATION

SCALE: 3/32" = 1'-0"

NOTE:

1. FOR ANCHOR BOLT DETAILS, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

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DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
DETAILS 2

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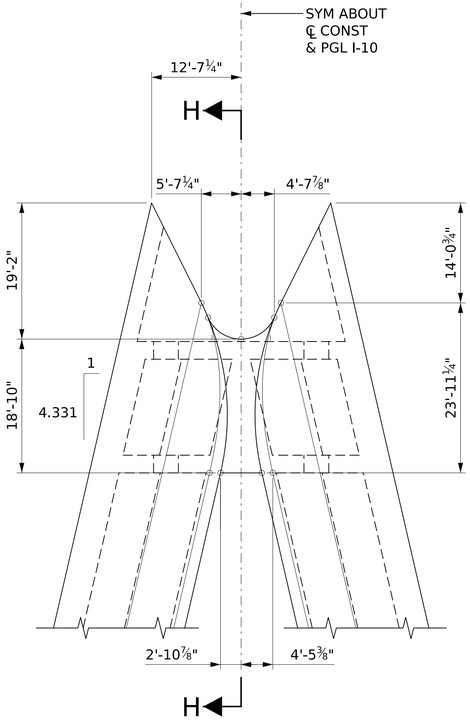
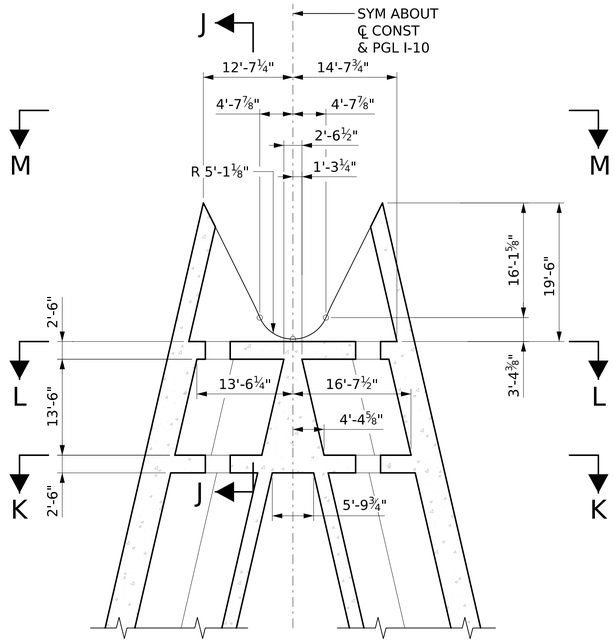
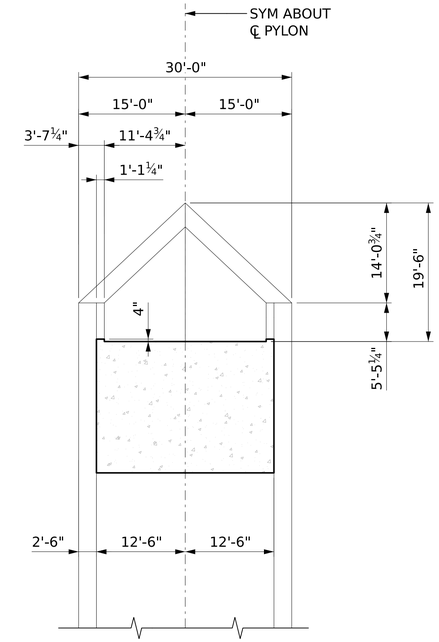
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40169



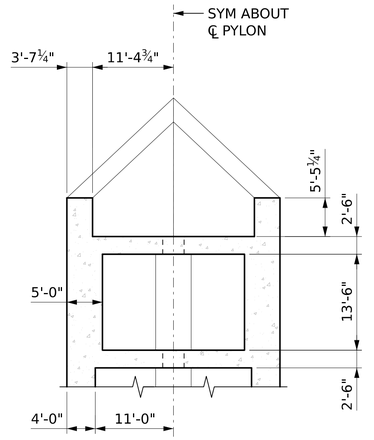
DETAIL 3
SCALE: 3/32" = 1'-0"



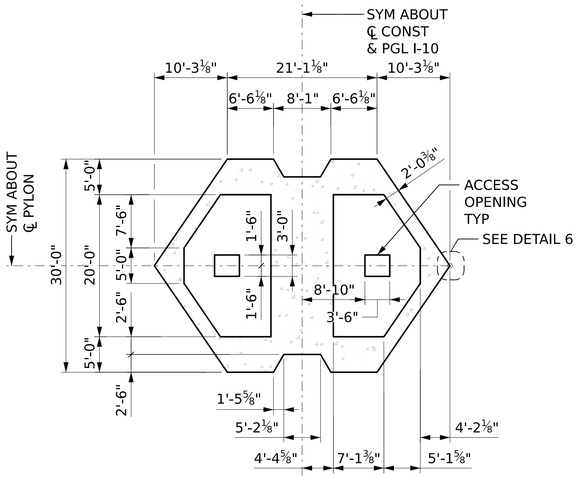
DETAIL 3 - AT ℄ PYLON
SCALE: 3/32" = 1'-0"



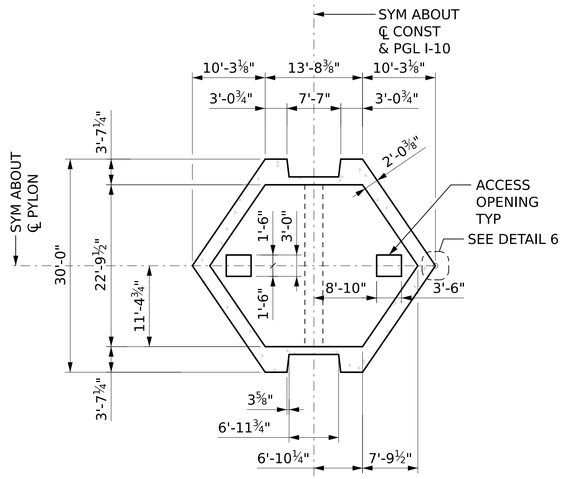
SECTION H-H
SCALE: 3/32" = 1'-0"



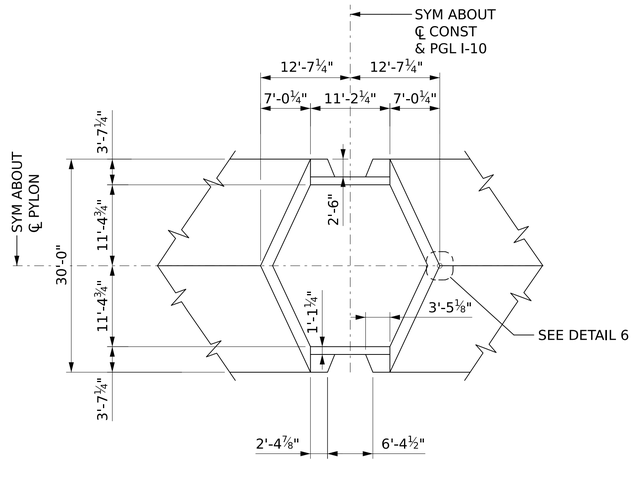
SECTION J-J
SCALE: 3/32" = 1'-0"



SECTION K-K
SCALE: 3/32" = 1'-0"
AT ELEVATION +502.031 (P29)
AT ELEVATION +500.385 (P30)



SECTION L-L
SCALE: 3/32" = 1'-0"
AT ELEVATION +518.031 (P29)
AT ELEVATION +516.385 (P30)



SECTION M-M
SCALE: 3/32" = 1'-0"

NOTES:

1. FOR LOCATION OF DETAIL 3, SEE "PYLON P29 DIMENSIONS" AND "PYLON P30 DIMENSIONS" SHEETS.
2. FOR DETAIL 6, SEE "PYLON P29 & P30 DETAILS 2" SHEET.

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PLAN SUBMITTAL

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BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
DETAILS 3

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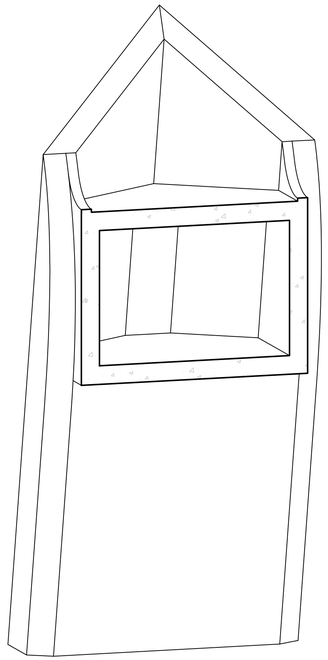
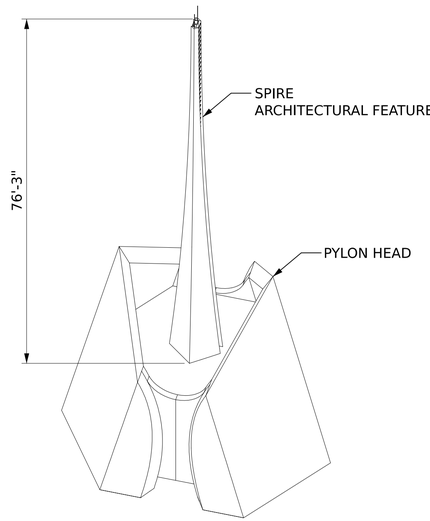
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40170



ISOMETRIC SECTION - PYLON HEAD

SCALE: NTS



ISOMETRIC VIEW - PYLON HEAD

SCALE: NTS

PRELIMINARY
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MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

DETAILS 4

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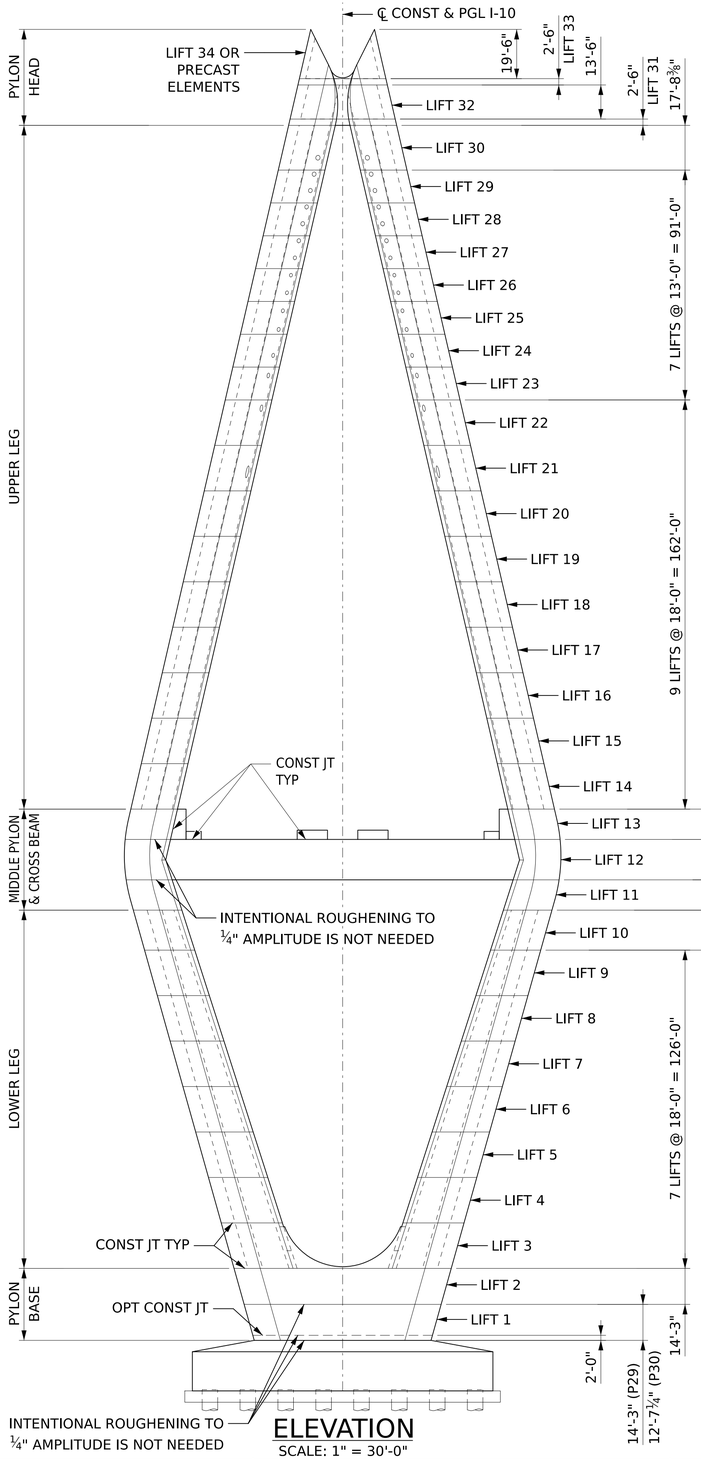
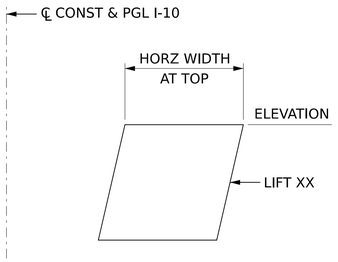


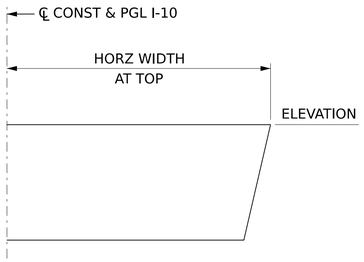
ELEVATION
SCALE: 1" = 30'-0"

PYLON P29 LIFT GEOMETRY TABLE		
LIFT	ELEVATION AT TOP OF LIFT	HORIZ WIDTH AT TOP
OPT CONST JT	20.500	35'-6¾"
1	32.750	39'-0 1/16"
2	47.000	SEE NOTE 1
3	65.000	24'-2¾"
4	83.000	23'-6"
5	101.000	22'-9¼"
6	119.000	22'-0½"
7	137.000	21'-3¾"
8	155.000	20'-7"
9	173.000	19'-10¼"
10	188.833	19'-2 9/16"
11	200.833	18'-2 5/16"
12	216.833	17'-11⅛"
13	228.833	18'-5 11/16"
14	246.833	18'-5 11/16"
15	264.833	18'-5 11/16"
16	282.833	18'-5 11/16"
17	300.833	18'-5 11/16"
18	318.833	18'-5 11/16"
19	336.833	18'-5 11/16"
20	354.833	18'-5 11/16"
21	372.833	18'-5 11/16"
22	390.833	18'-5 11/16"
23	403.833	18'-5 11/16"
24	416.833	18'-5 11/16"
25	429.833	18'-5 11/16"
26	442.833	18'-5 11/16"
27	455.833	18'-5 11/16"
28	468.833	18'-5 11/16"
29	481.833	18'-5 11/16"
30	499.531	21'-4⅝"
31	502.031	20'-9 11/16"
32	515.531	17-8 5/16"
33	518.031	17-1⅜"

PYLON P30 LIFT GEOMETRY TABLE		
LIFT	ELEVATION AT TOP OF LIFT	HORIZ WIDTH AT TOP
OPT CONST JT	20.500	36'-0¼"
1	31.104	39'-0 1/16"
2	45.354	SEE NOTE 1
3	63.354	24'-2¾"
4	81.354	23'-6"
5	99.354	22'-9¼"
6	117.354	22'-0½"
7	135.354	21'-3¾"
8	153.354	20'-7"
9	171.354	19'-10¼"
10	187.188	19'-2 9/16"
11	199.188	18'-2 5/16"
12	215.188	17'-11⅛"
13	227.188	18'-5 11/16"
14	245.188	18'-5 11/16"
15	263.188	18'-5 11/16"
16	281.188	18'-5 11/16"
17	299.188	18'-5 11/16"
18	317.188	18'-5 11/16"
19	335.188	18'-5 11/16"
20	353.188	18'-5 11/16"
21	371.188	18'-5 11/16"
22	389.188	18'-5 11/16"
23	402.188	18'-5 11/16"
24	415.188	18'-5 11/16"
25	428.188	18'-5 11/16"
26	441.188	18'-5 11/16"
27	454.188	18'-5 11/16"
28	467.188	18'-5 11/16"
29	480.188	18'-5 11/16"
30	497.885	21'-4⅝"
31	500.385	20'-9 11/16"
32	513.885	17-8 5/16"
33	518.385	17-1⅜"



PYLON LEG AND CROSS BEAM LIFT GEOMETRY DETAIL
NTS



PYLON BASE AND PYLON HEAD LIFT GEOMETRY DETAIL
NTS

NOTES:

1. FOR PYLON DIMENSIONS, SEE "PYLON DIMENSION" AND "PYLON DETAILS" SHEETS.
2. LIFT 1 AND 2 CAN BE COMBINED IN A SINGLE CONCRETE POUR AT CONTRACTORS PREFERENCE.
3. PYLON CONSTRUCTION JOINTS SHALL BE ROUGHENED TO AMPLITUDE OF ¼" UNLESS NOTED OTHERWISE.

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40171

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ALABAMA DEPARTMENT OF TRANSPORTATION

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A	KIE	04/04/2025	60% SUBMITTAL

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Kiewit
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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LIFT CONSTRUCTION JOINT LAYOUT

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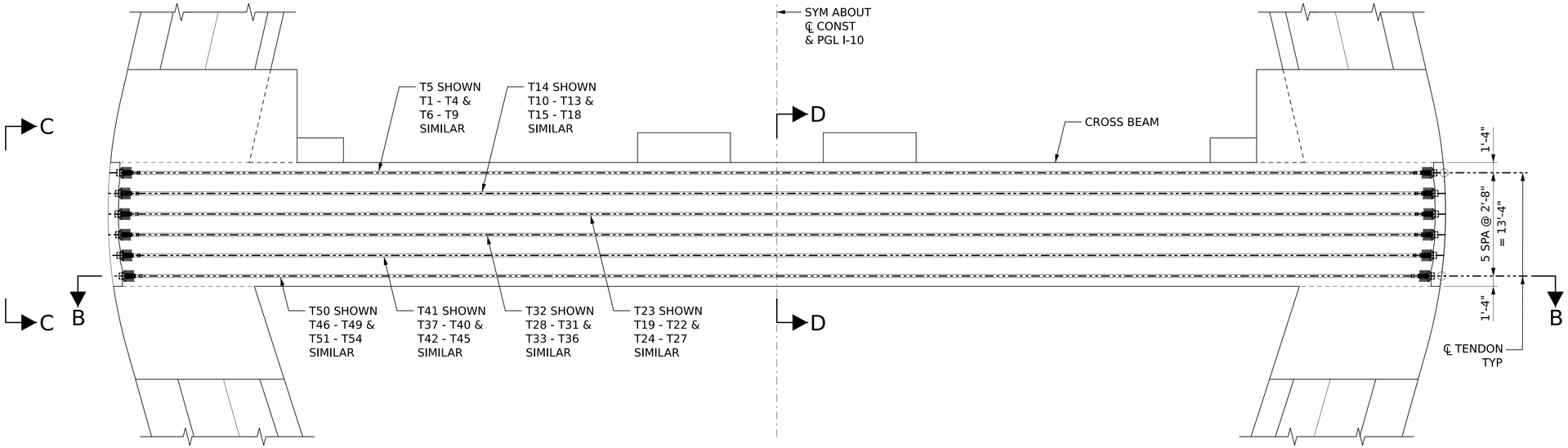
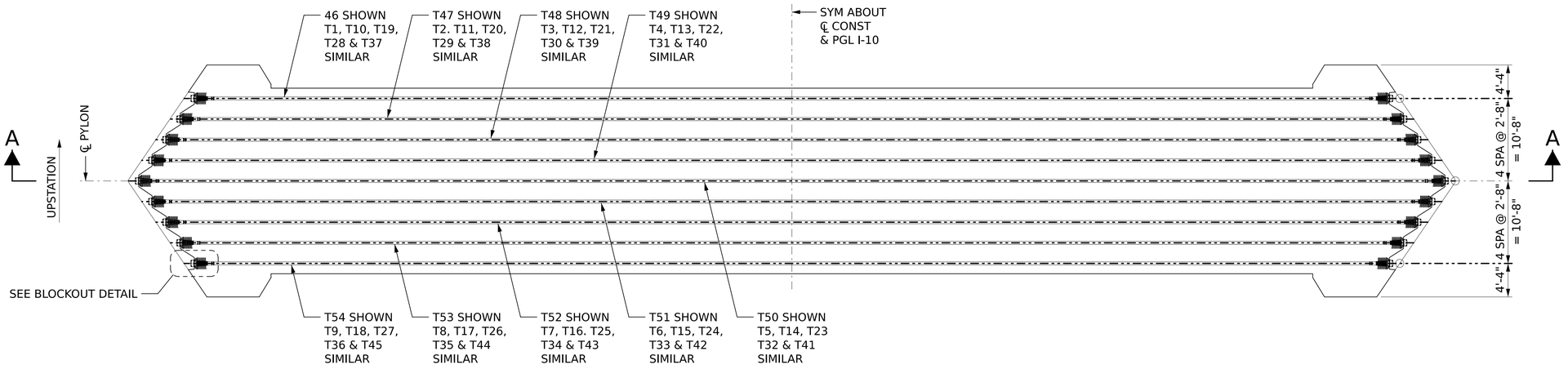
7:40:00 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40172



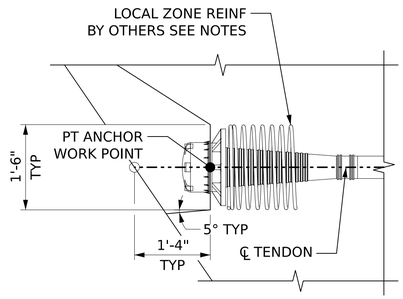
SECTION A-A
SCALE: 1/8" = 1'-0"



SECTION B-B
SCALE: 1/8" = 1'-0"

NOTES:

1. FOR VIEW C-C AND SECTION D-D, SEE "PYLON P29 & P30 POST-TENSIONING DETAILS 2" SHEET.
2. POST-TENSIONING TENDON DETAILS, SPACING, AND BLOCK OUT DIMENSIONS SHOWN ARE FOR SDI 27.6-PC ANCHORAGE SYSTEM OR EQUAL. THESE VALUES SHALL BE VERIFIED BY THE POST-TENSIONING TENDON SUPPLIER AND ADJUSTED IF NECESSARY AFTER CONSULTING WITH THE ENGINEER OF RECORD.
3. TENDONS SHALL NOT BE STRESSED UNTIL THE CROSS BEAM CONCRETE HAS ATTAINED A STRENGTH OF F'CI = 5,500 PSI.
4. JACKING FORCE SHALL BE 1,186 KIP/TENDON.
5. TENDONS SHALL BE STRESSED FROM ONE END ONLY. STRESSING ALL TENDONS FROM THE SAME END IS ALLOWED.
6. BLOCKOUTS SHALL BE GROUTED IMMEDIATELY UPON COMPLETION TENDON GROUTING.
7. POST-TENSIONING SUPPLIER SHALL BE RESPONSIBLE FOR SPECIFYING AND PROVIDING THE REQUIRED LOCAL ZONE REINFORCING.
8. PRIOR TO INSTALLATION OF POST-TENSIONING TENDONS, THE POST-TENSIONING SUPPLIER SHALL SUBMIT TO ENGINEER OF RECORD PROOF OF ACCEPTANCE FOR ANCHORAGE DEVICE TESTS PERFORMED PER AASHTO LRFD CONSTRUCTION SPECIFICATIONS 10.3.2 AND 10.3.2.3.
9. STRESSING OF THE POST-TENSIONING TENDONS SHALL PROCEED FROM THE CENTER ANCHORAGES OUTWARD AND SYMMETRICALLY IN EACH DIRECTION TO AVOID ECCENTRIC OR OVER STRESSING CONDITIONS.
10. FOR OTHER CONSTRUCTION REQUIREMENTS AND PROCEDURES, SEE "ERECTION SCHEMATICS DETAILS 1" SHEET.



BLOCKOUT DETAIL
NOT TO SCALE

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DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

POST-TENSIONING DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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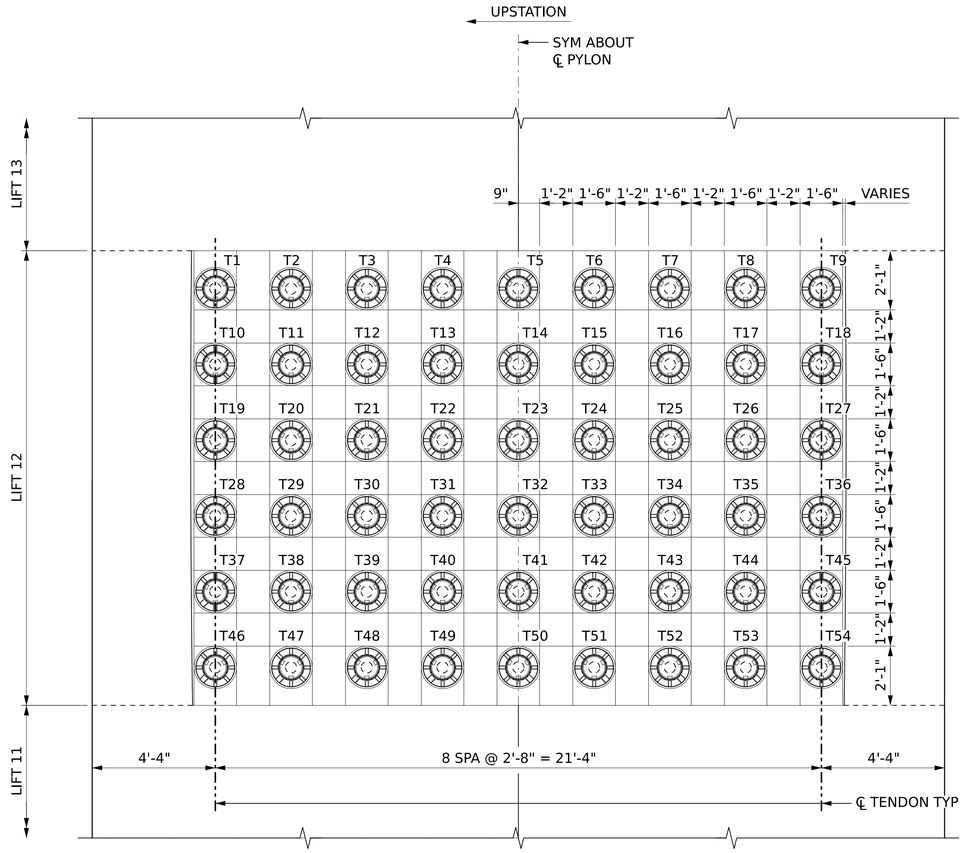
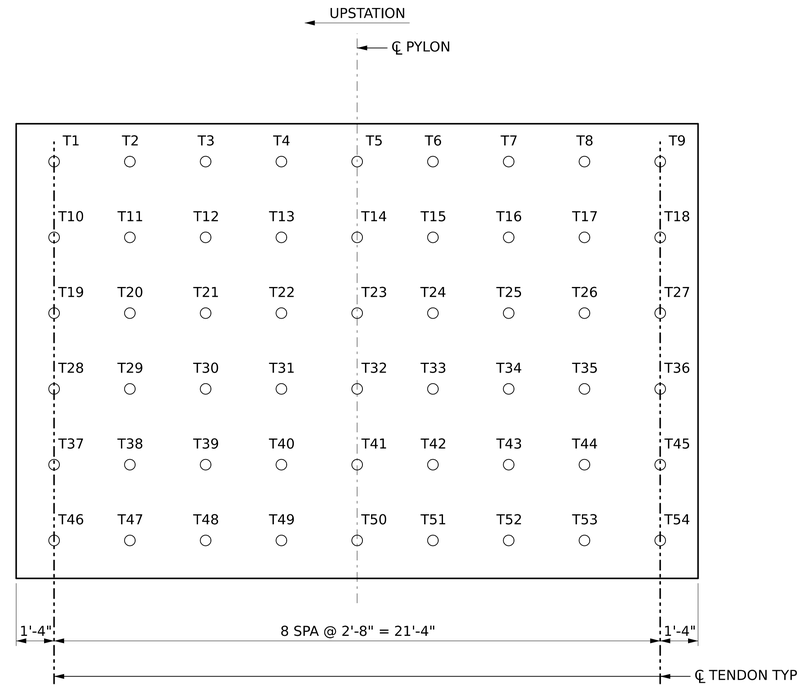
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40173



VIEW C-C
SCALE: 3/8" = 1'-0"



SECTION D-D
SCALE: 3/8" = 1'-0"

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COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
POST-TENSIONING DETAILS 2

PRELIMINARY
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7:40:18 PM
3/13/2025

2" 1" SHEET REFERENCE 0

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40181

PRELIMINARY
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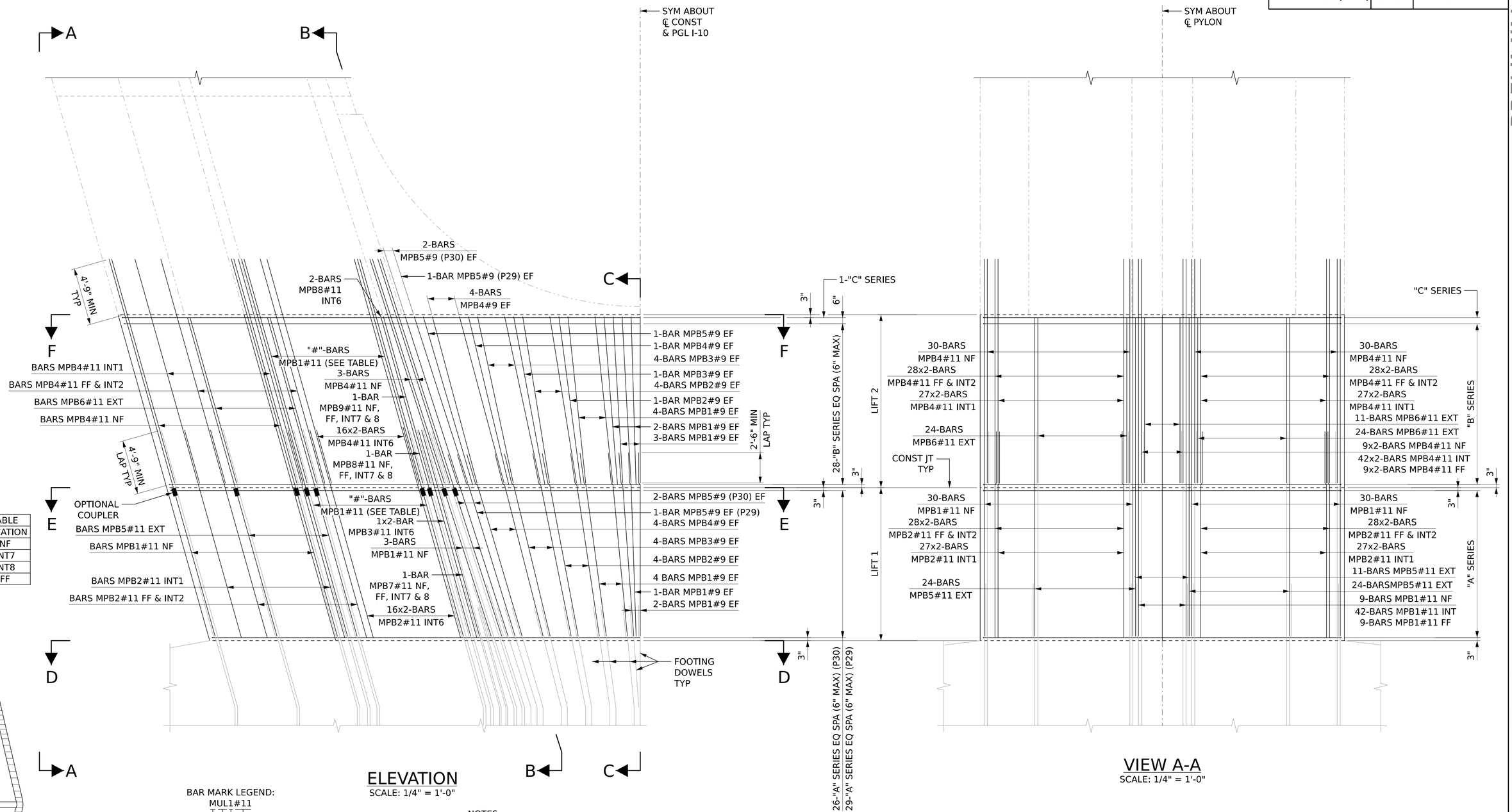
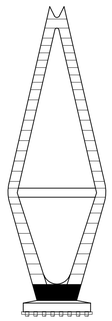
SHEET REFERENCE 0 1" 2"



BAR TABLE	
"#"	LOCATION
20	NF
16	INT7
16	INT8
19	FF



BAR MARK LEGEND:
MUL1#11
BAR DESIGNATION — AREA OF PYLON — BAR SIZE — BAR NUMBER
PB = PYLON BASE
LL = LOWER LEG
MP = MIDDLE PYLON & CROSS BEAM
UL = UPPER LEG
PH = PYLON HEAD

ELEVATION
SCALE: 1/4" = 1'-0"

VIEW A-A
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. FOR FOOTING DOWELS, SEE "PYLON P29 & P30 FOOTING REINFORCEMENT" SHEETS.
3. FOR SECTION B-B AND SECTION C-C, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 2" SHEET.
4. FOR SECTION D-D, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 3" SHEET.
5. FOR SECTION E-E, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 4" SHEET.
6. FOR SECTION F-F AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 5" SHEET.

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON BASE REINFORCEMENT 1

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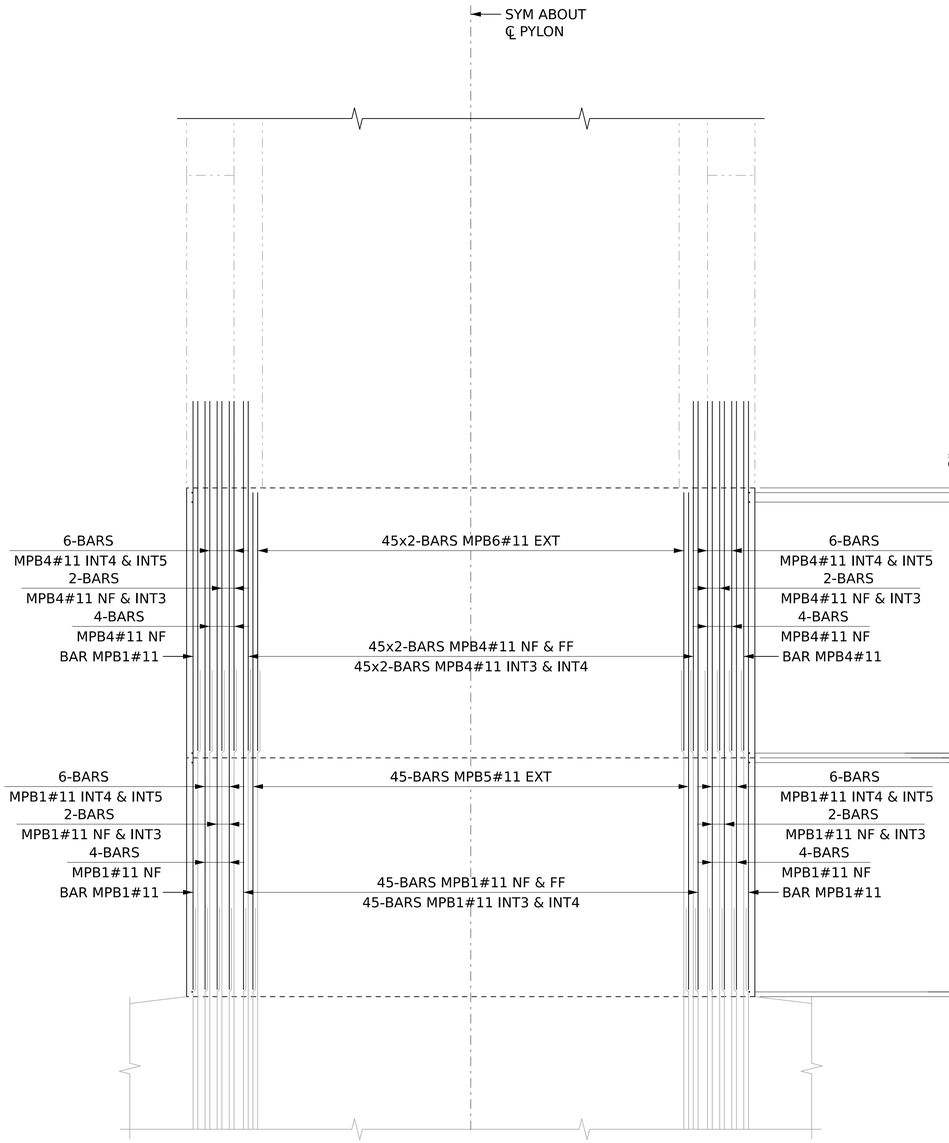
1:08:34 PM
3/14/2025

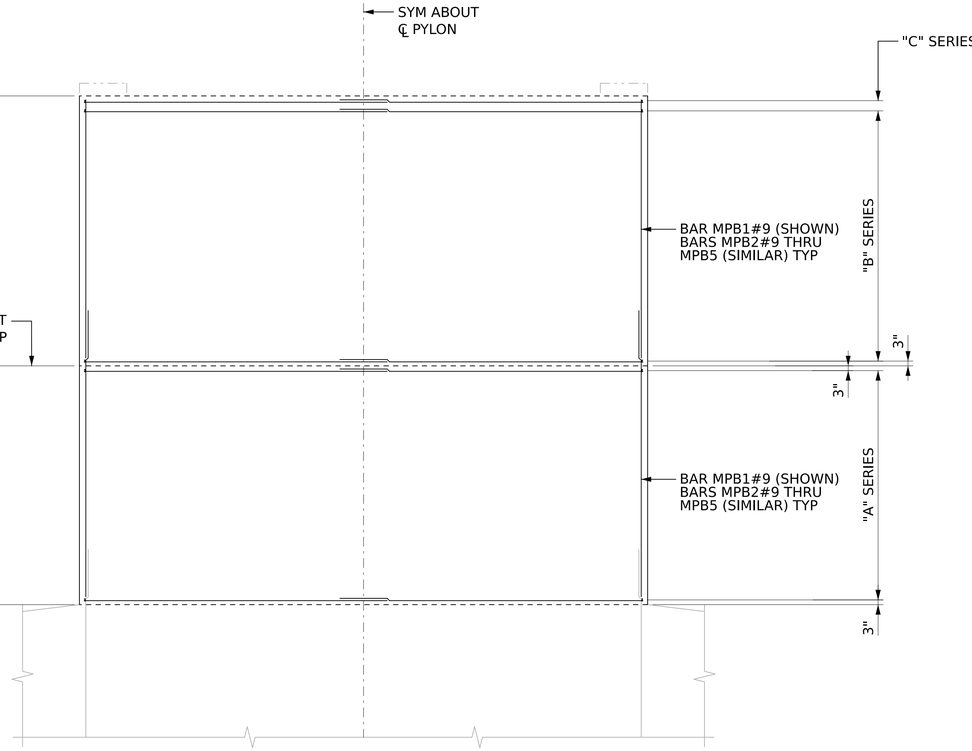
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40182

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

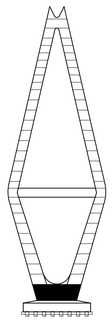
2" / 1" SHEET REFERENCE / 0



SECTION B-B
SCALE: 1/4" = 1'-0"



SECTION C-C
SCALE: 1/4" = 1'-0"



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 1" SHEET.

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DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON BASE REINFORCEMENT 2

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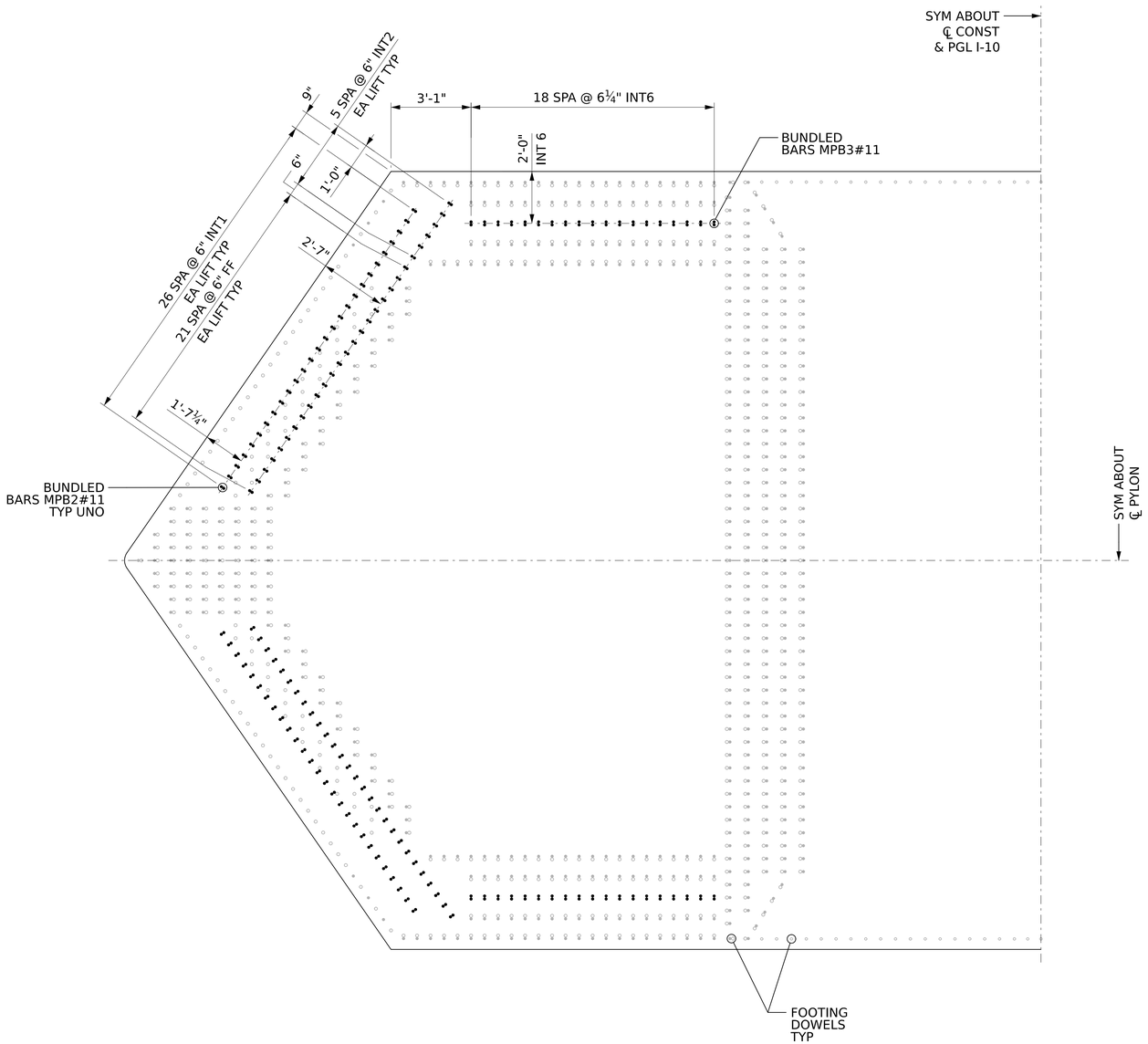
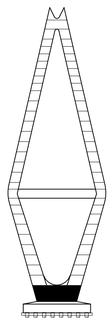
7:40:51 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40183



SECTION D-D

SCALE: 3/8" = 1'-0"



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 1" SHEET.

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DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

PYLON BASE REINFORCEMENT 3

PRELIMINARY

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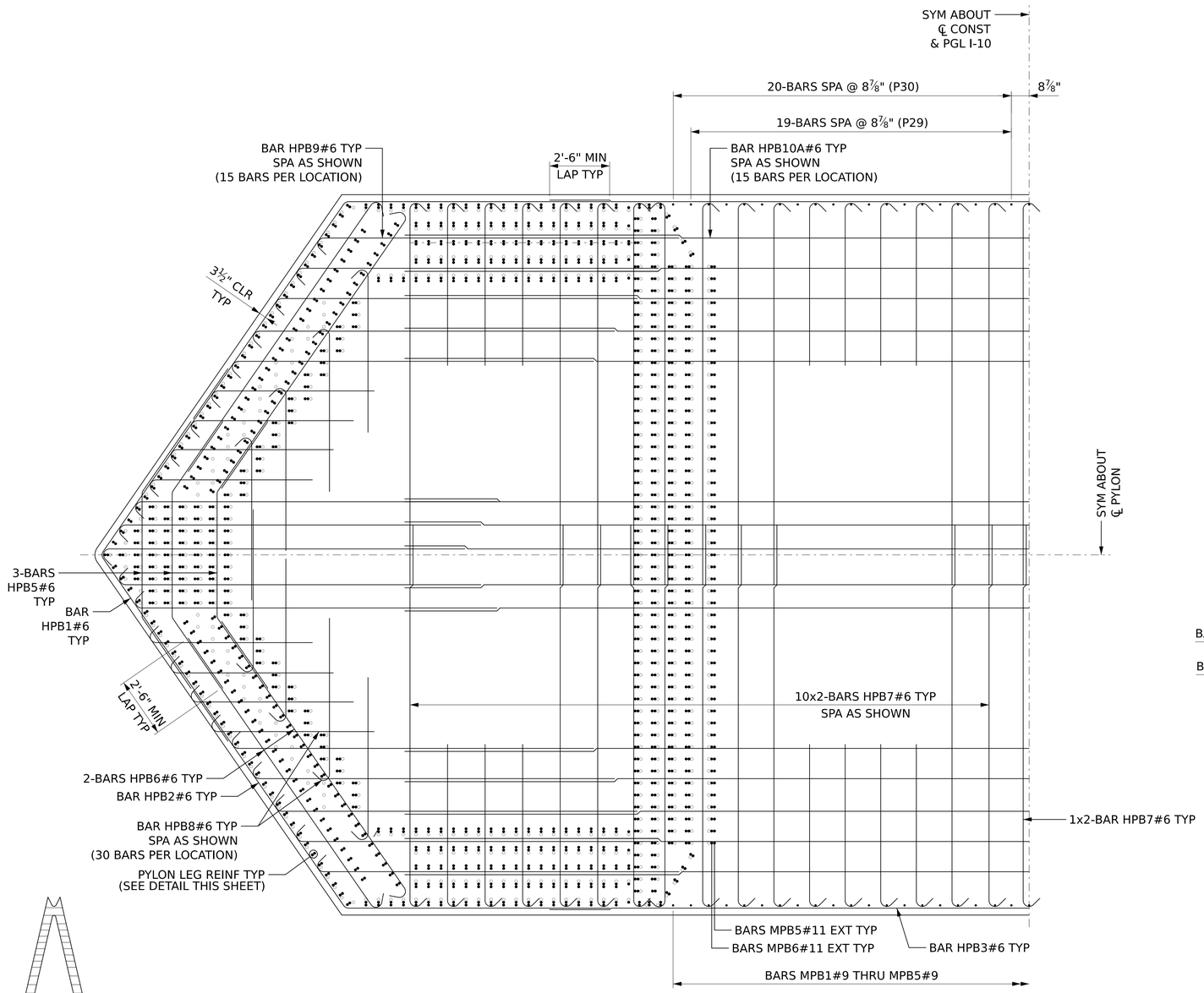
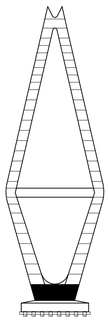
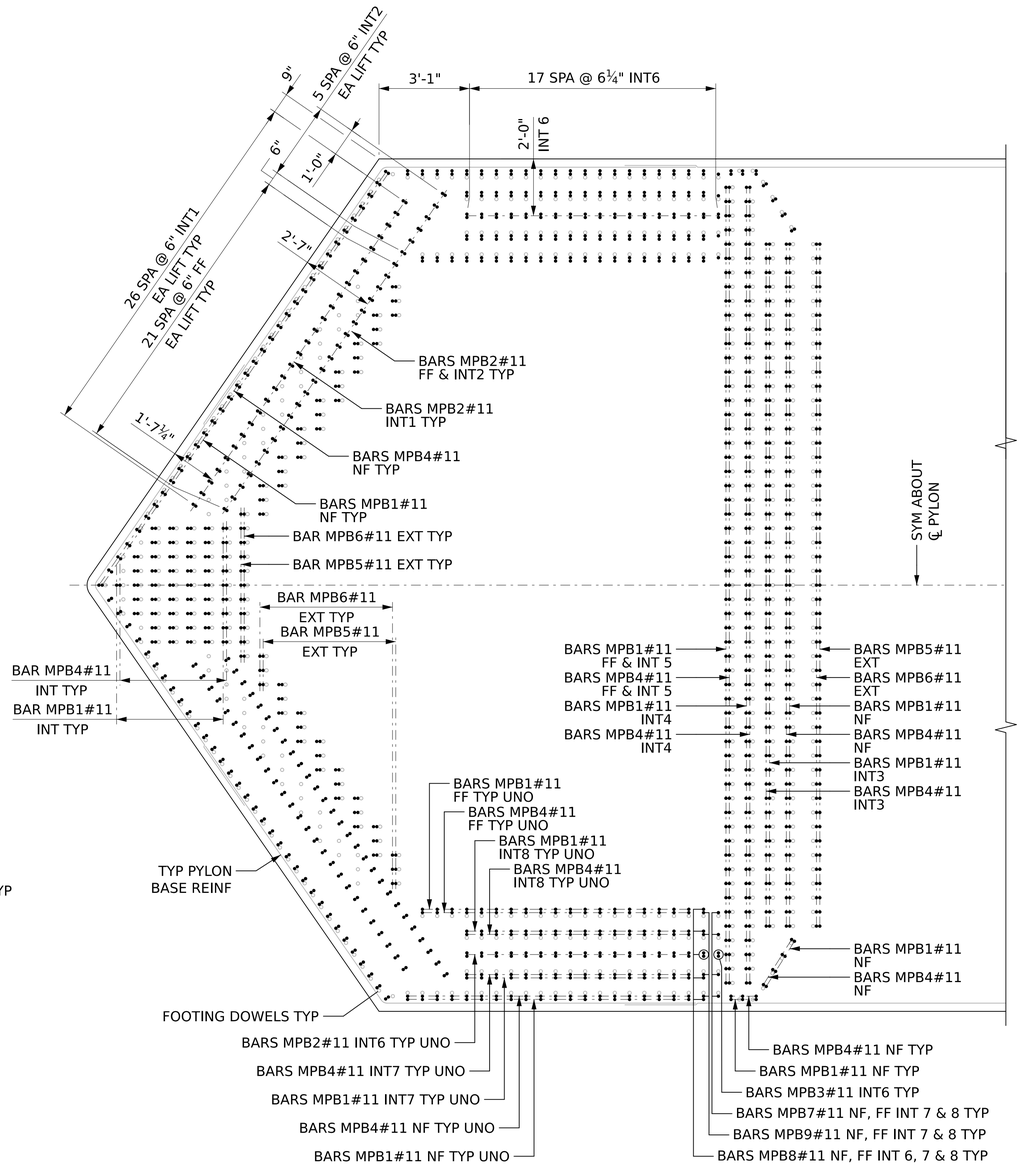
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40184

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



SECTION E-E
SCALE: 3/8" = 1'-0"





PYLON LEG REINFORCMENT DETAIL AT TOP OF LIFT 1
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 1" SHEET.

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MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON BASE REINFORCEMENT 4

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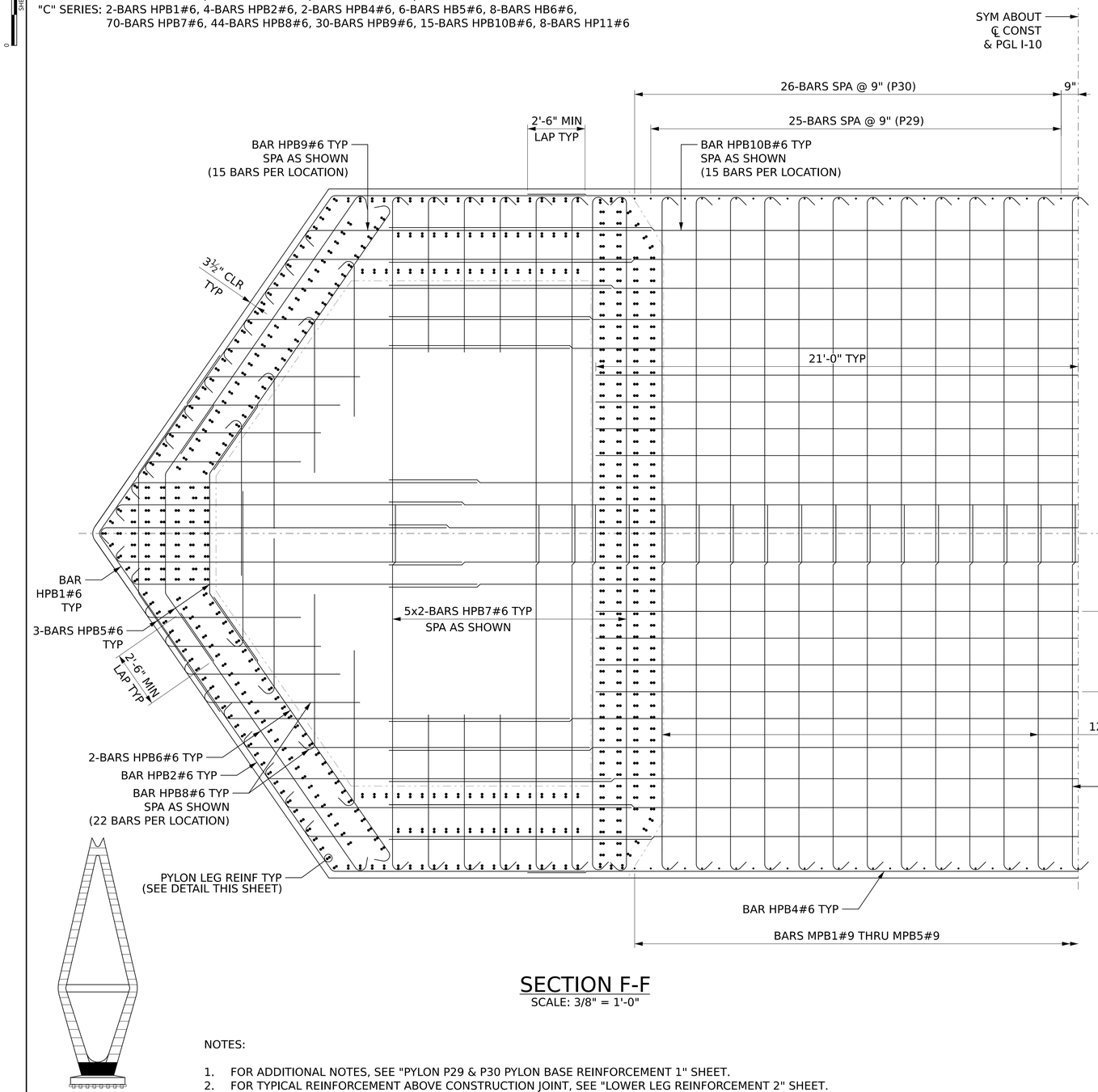
Brad.Shepard
7:41:04 PM
3/13/2025

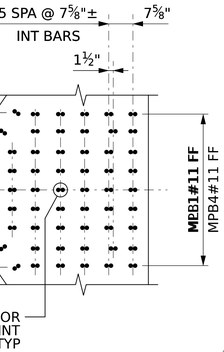
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40185

BAR SERIES LEGEND:

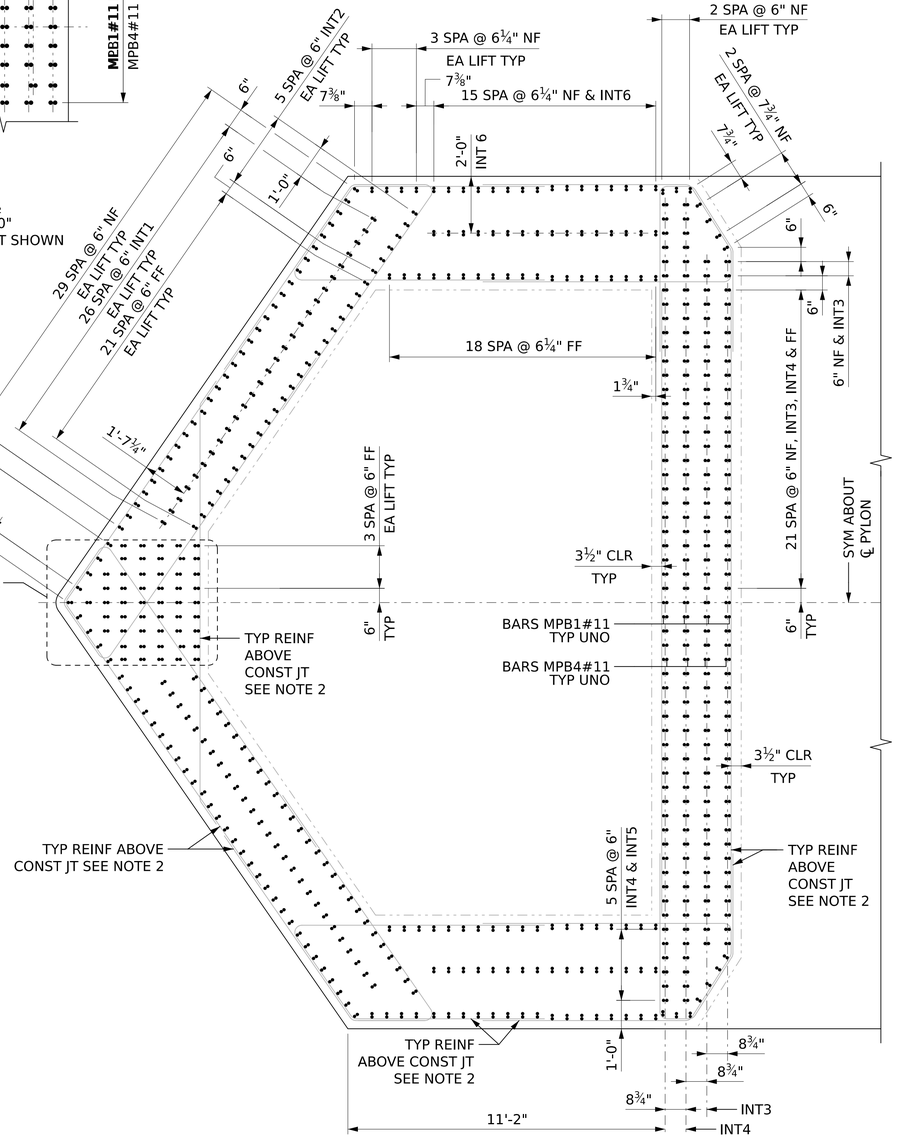
"A" SERIES: 2-BARS HPB1#6, 4-BARS HPB2#6, 2-BARS HPB3#6, 6-BARS HB5#6, 8-BARS HB6#6, 42-BARS HPB7#6, 60-BARS HPB8#6, 30-BARS HPB9#6, 15-BARS HPB10A#6
"B" SERIES: 2-BARS HPB1#6, 4-BARS HPB2#6, 2-BARS HPB4#6, 6-BARS HB5#6, 8-BARS HB6#6, 42-BARS HPB7#6, 60-BARS HPB8#6, 30-BARS HPB9#6, 15-BARS HPB10B#6
"C" SERIES: 2-BARS HPB1#6, 4-BARS HPB2#6, 2-BARS HPB4#6, 6-BARS HB5#6, 8-BARS HB6#6, 70-BARS HPB7#6, 44-BARS HPB8#6, 30-BARS HPB9#6, 15-BARS HPB10B#6, 8-BARS HP11#6



SECTION F-F
SCALE: 3/8" = 1'-0"



DETAIL 1
SCALE: 1/2" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



PYLON LEG REINFORCMENT DETAIL AT TOP OF LIFT 2
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 PYLON BASE REINFORCEMENT 1" SHEET.
2. FOR TYPICAL REINFORCEMENT ABOVE CONSTRUCTION JOINT, SEE "LOWER LEG REINFORCEMENT 2" SHEET.

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A	KIE	04/04/2025	60% SUBMITTAL

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DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

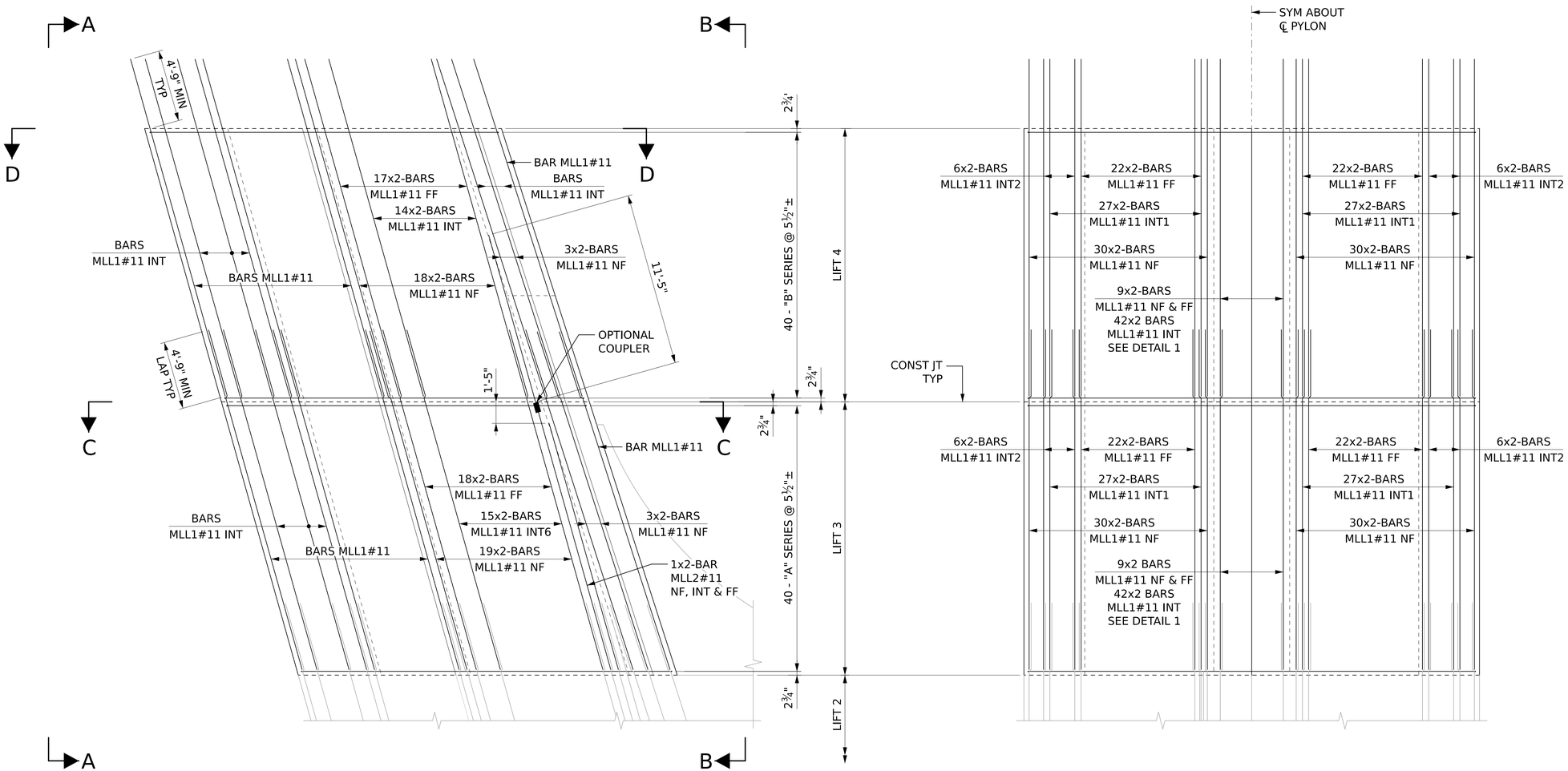
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON BASE REINFORCEMENT 5

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40185.dgn
Brad.Shepard
3:06:59 PM
3/14/2025

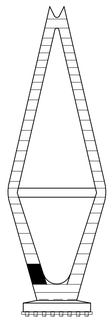
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40191

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW A-A
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. THE SOUTH PYLON LEG IS SIMILAR.
3. FOR VIEW B-B, SECTION C-C, SECTION D-D, DETAIL 1 AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 2" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 1

MRB-S04-BR-40191.dgn
Brad.Shepard
7:41:15 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40192

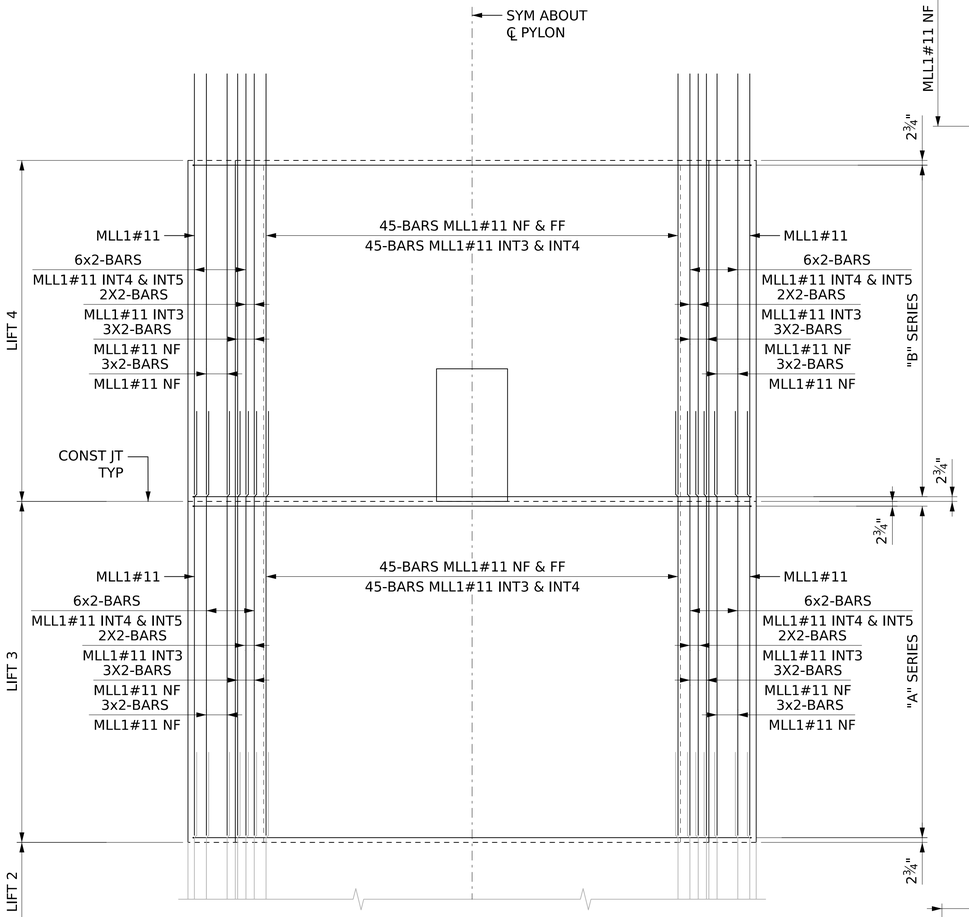
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"

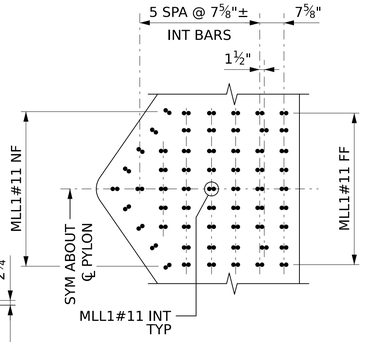
BAR SERIES LEGEND:

"A" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3A#6, 2-BARS HLL4A#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#9, 1-BAR HLL3#9, 2-BARS HLL4A#9, 4-BARS HTLL1A#6, HTLL1#4 TO HTLL12#4

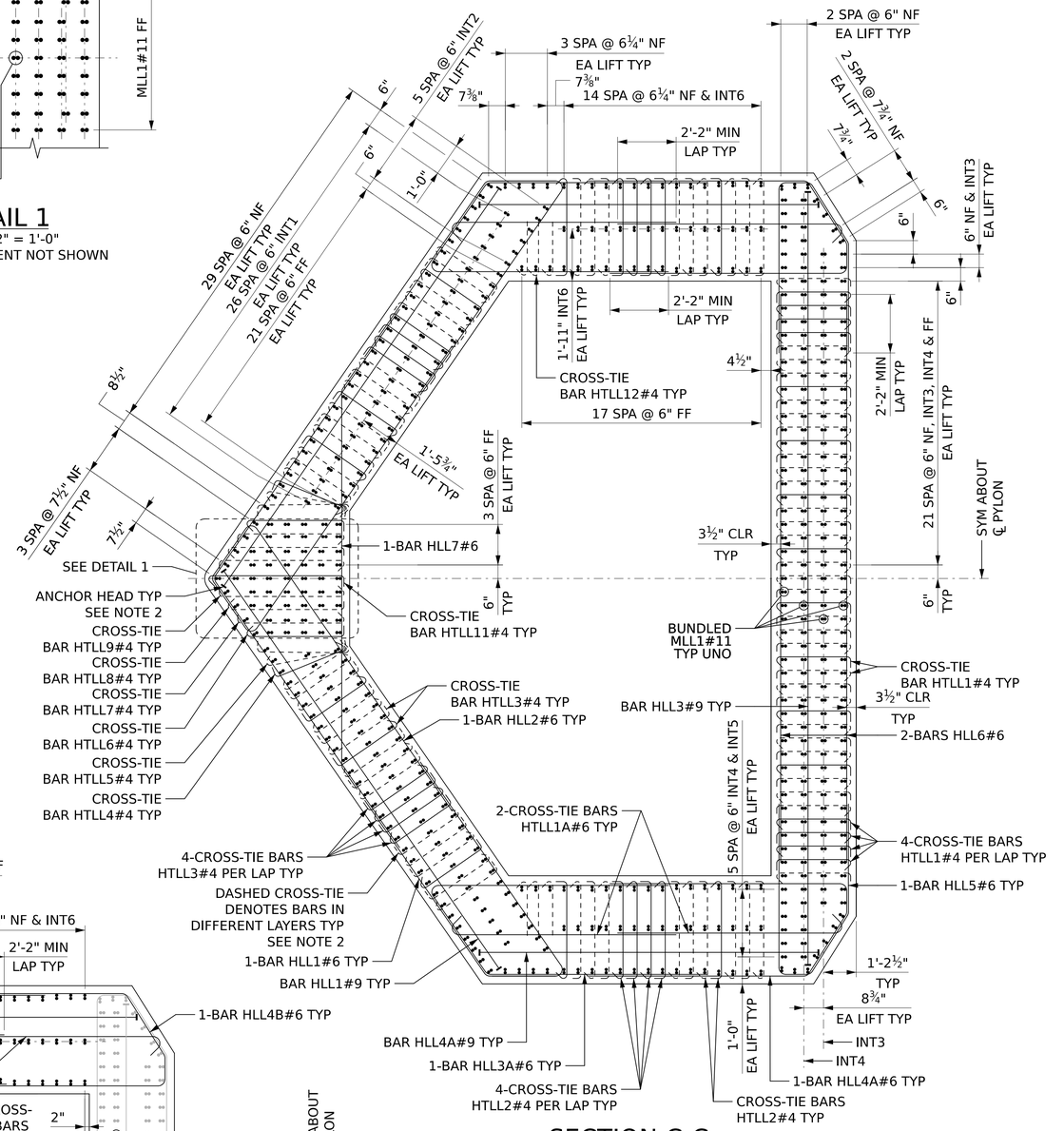
"B" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3B#6, 2-BARS HLL4B#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#9, 1-BAR HLL3#9, 2-BARS HLL4B#9, 4-BARS HTLL1B#6, HTLL1#4 TO HTLL12#4



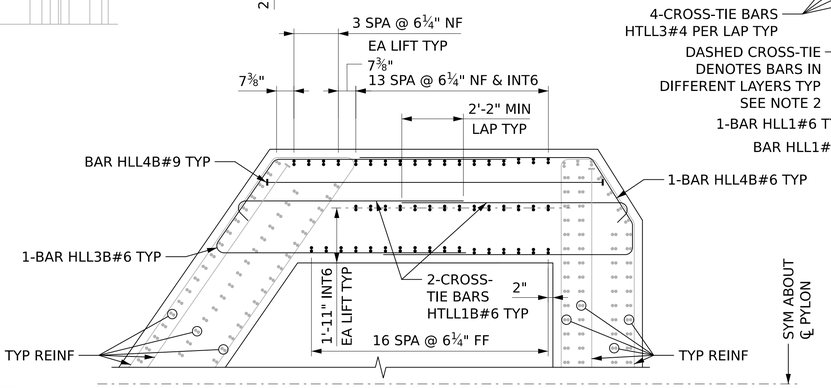
VIEW B-B
SCALE: 1/4" = 1'-0"



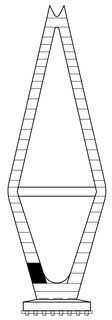
DETAIL 1
SCALE: 1/2" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



SECTION C-C
SCALE: 3/8" = 1'-0"



PARTIAL SECTION D-D
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



NOTES:

1. FOR ADDTIONAL NOTES, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 1" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

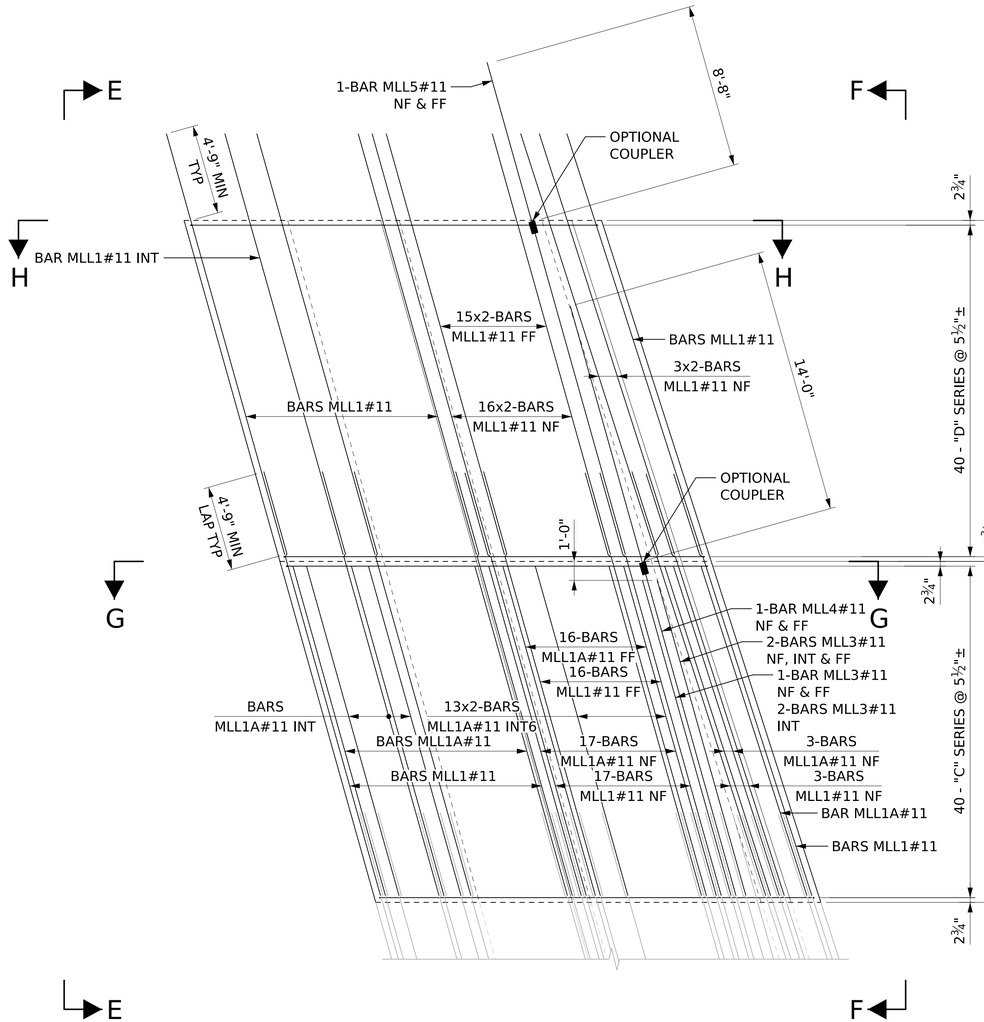
DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 2

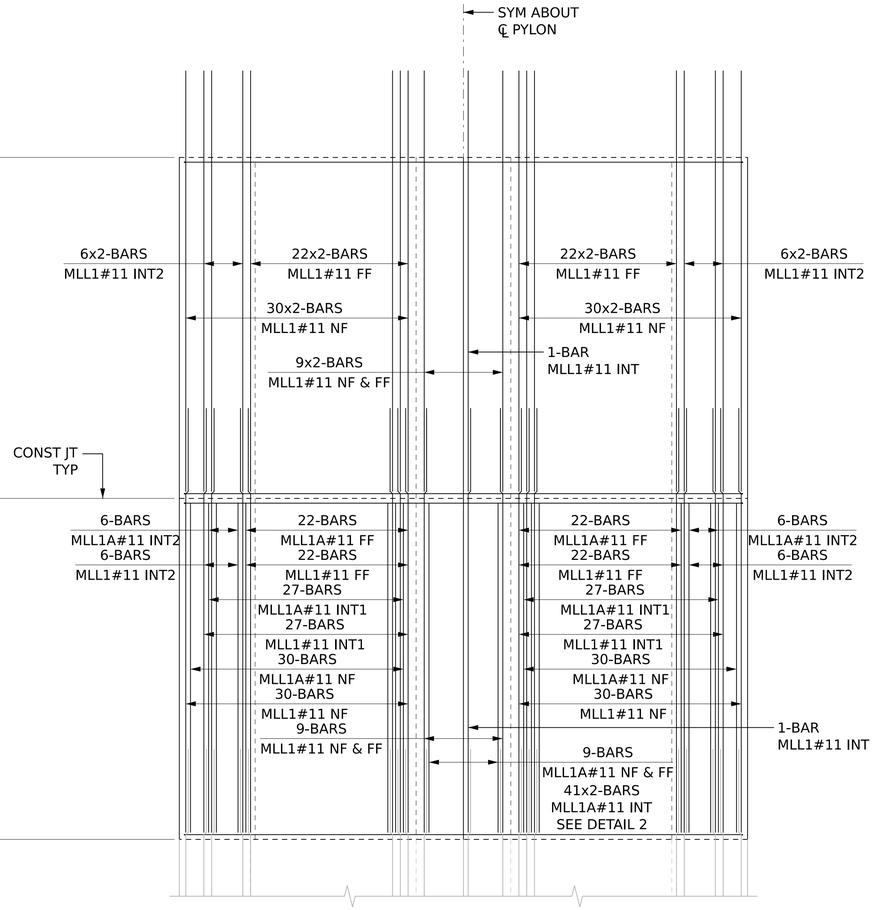
MRB-S04-BR-40192.dgn
Brad.Shepard
7:41:21 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40193

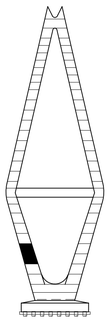
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"



VIEW E-E
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. THE SOUTH PYLON LEG IS SIMILAR.
3. FOR VIEW F-F, SECTION G-G, SECTION H-H, DETAIL 2 AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 4" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 3

MRB-S04-BR-40193.dgn
Brad.Shepard
7:41:27 PM
3/13/2025

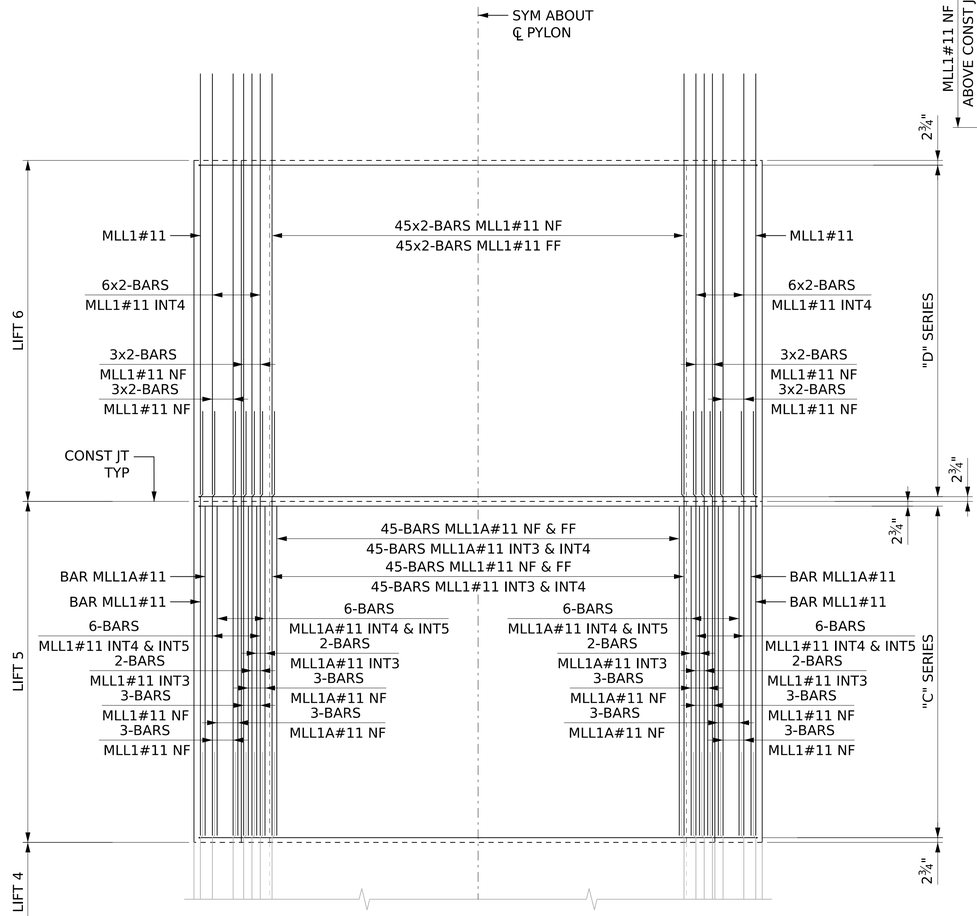
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40194

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

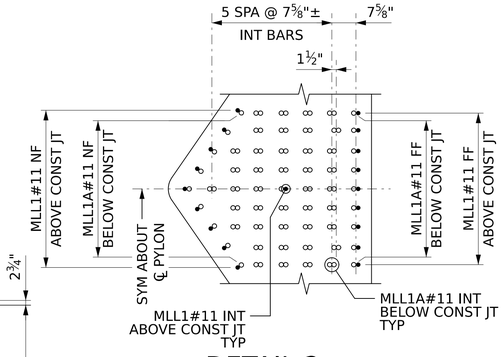
BAR SERIES LEGEND:

"C" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3C#6, 2-BARS HLL4C#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#10, 1-BAR HLL3#10, 2-BARS HLL4C#10, 4-BARS HTLL1C#6, HTLL1#4 TO HTLL12#4

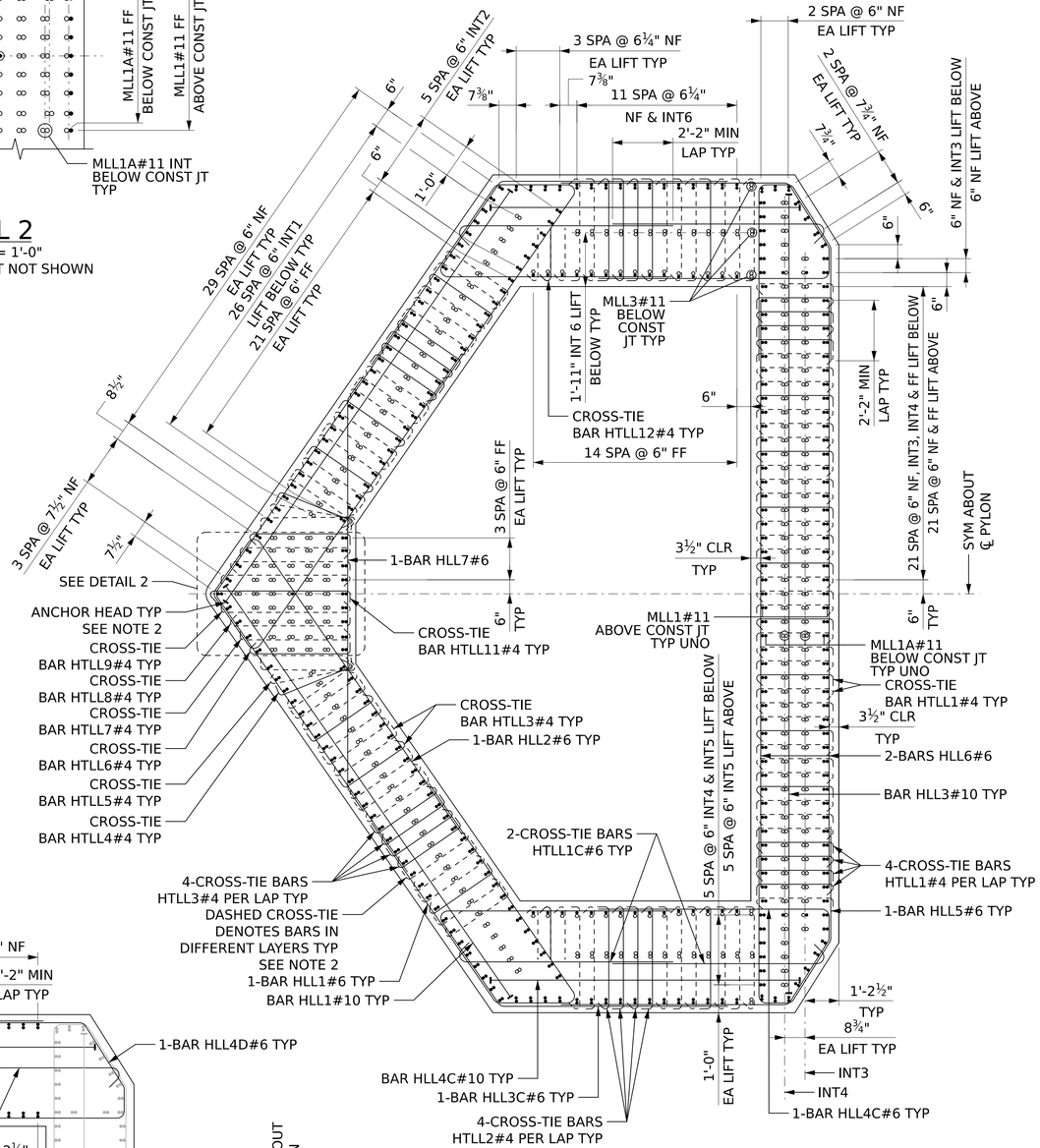
"D" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3D#6, 2-BARS HLL4D#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#10, 1-BAR HLL3#10, 2-BARS HLL4D#10, 4-BARS HTLL1D#6, HTLL1#4 TO HTLL12#4



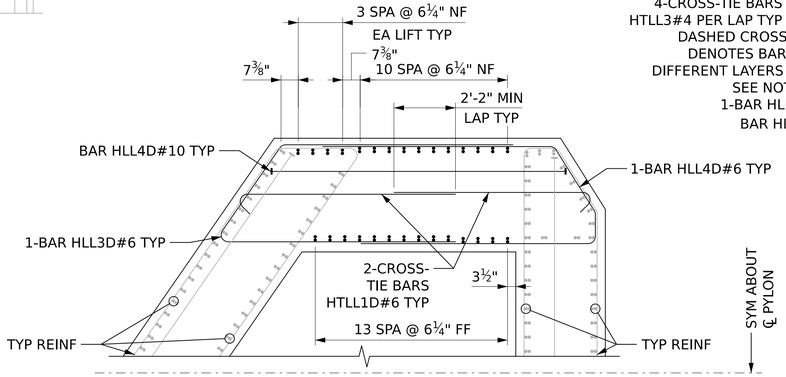
VIEW F-F
SCALE: 1/4" = 1'-0"



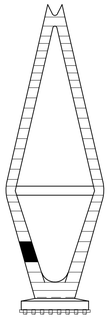
DETAIL 2
SCALE: 1/2" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



SECTION G-G
SCALE: 3/8" = 1'-0"



PARTIAL SECTION H-H
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 3" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

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60%

BIN(S)
COUNTY(S)
MOBILE

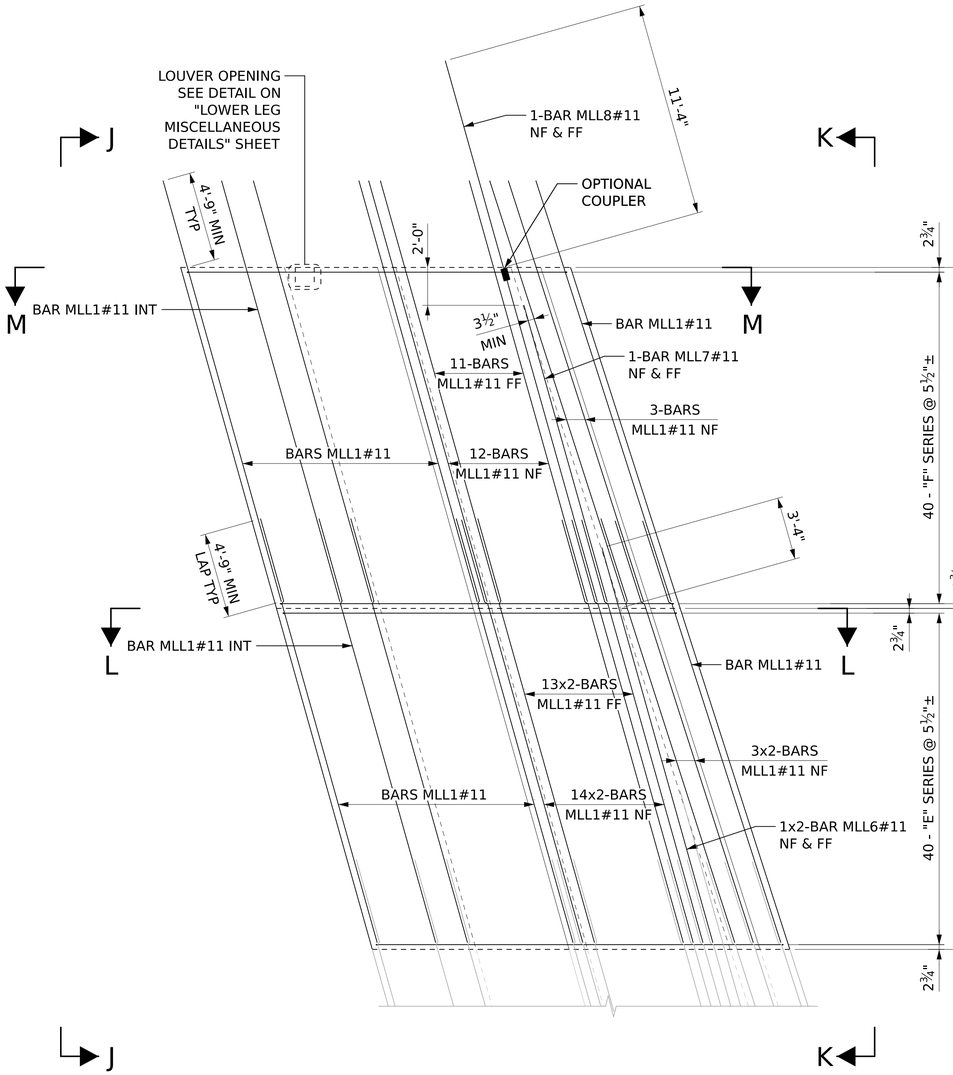
DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 4

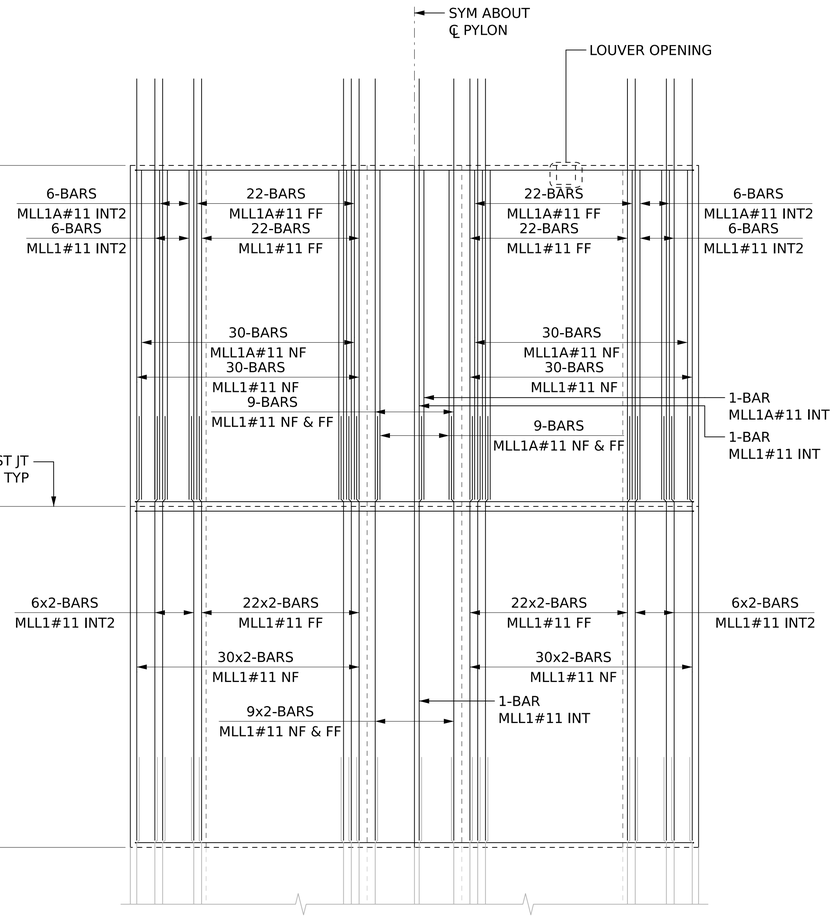
MRB-S04-BR-40194.dgn
Brad.Shepard
2:12:39 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40195

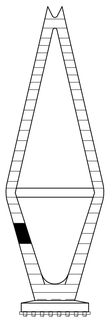
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"



VIEW J-J
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. THE SOUTH PYLON LEG IS SIMILAR.
3. FOR VIEW K-K, SECTION L-L, SECTION M-M AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 6" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

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A	KIE	04/04/2025	60% SUBMITTAL

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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 5

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Brad.Shepard
7:41:41 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40196

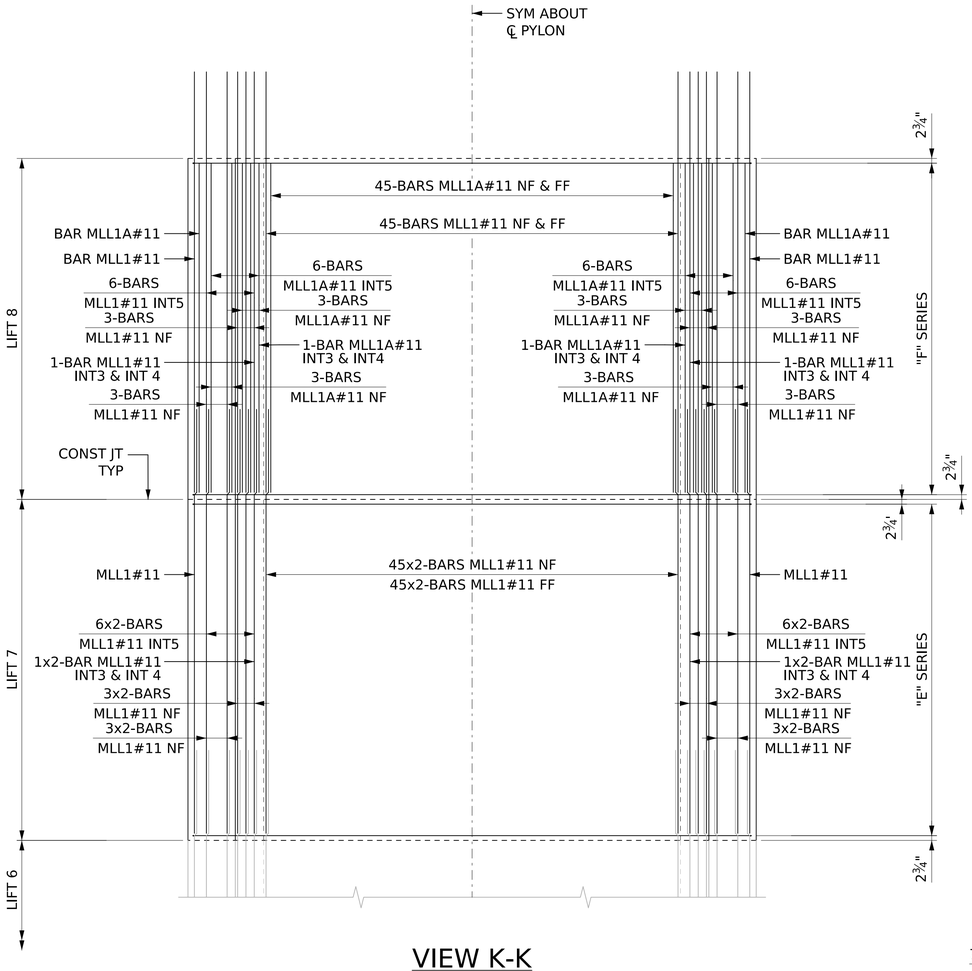
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2" 1" 0 SHEET REFERENCE

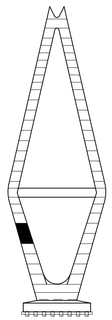
BAR SERIES LEGEND:

"E" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3E#6, 2-BARS HLL4E#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#9, 2-BARS HLL2#9, 1 BAR HLL3#9, 2-BARS HLL4E#9, 2-BAR HLL6E#9, 4-BARS HTLL1E#6, HTLL1#4 TO HTLL12#4

"F" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3F#6, 2-BARS HLL4F#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#10, 2-BARS HLL2#10, 1-BAR HLL3#10, 2-BARS HLL4F#11, 2-BARS HLL5F#11, 2-BARS HLL6F#11, 4-BARS HTLL1F#6, HTLL1#4 TO HTLL12#4

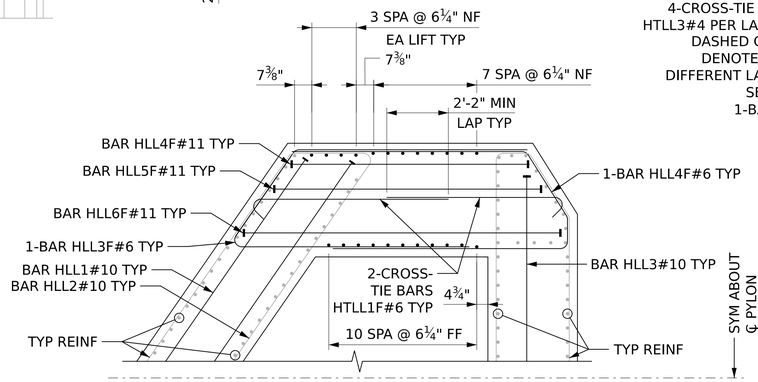


VIEW K-K
SCALE: 1/4" = 1'-0"

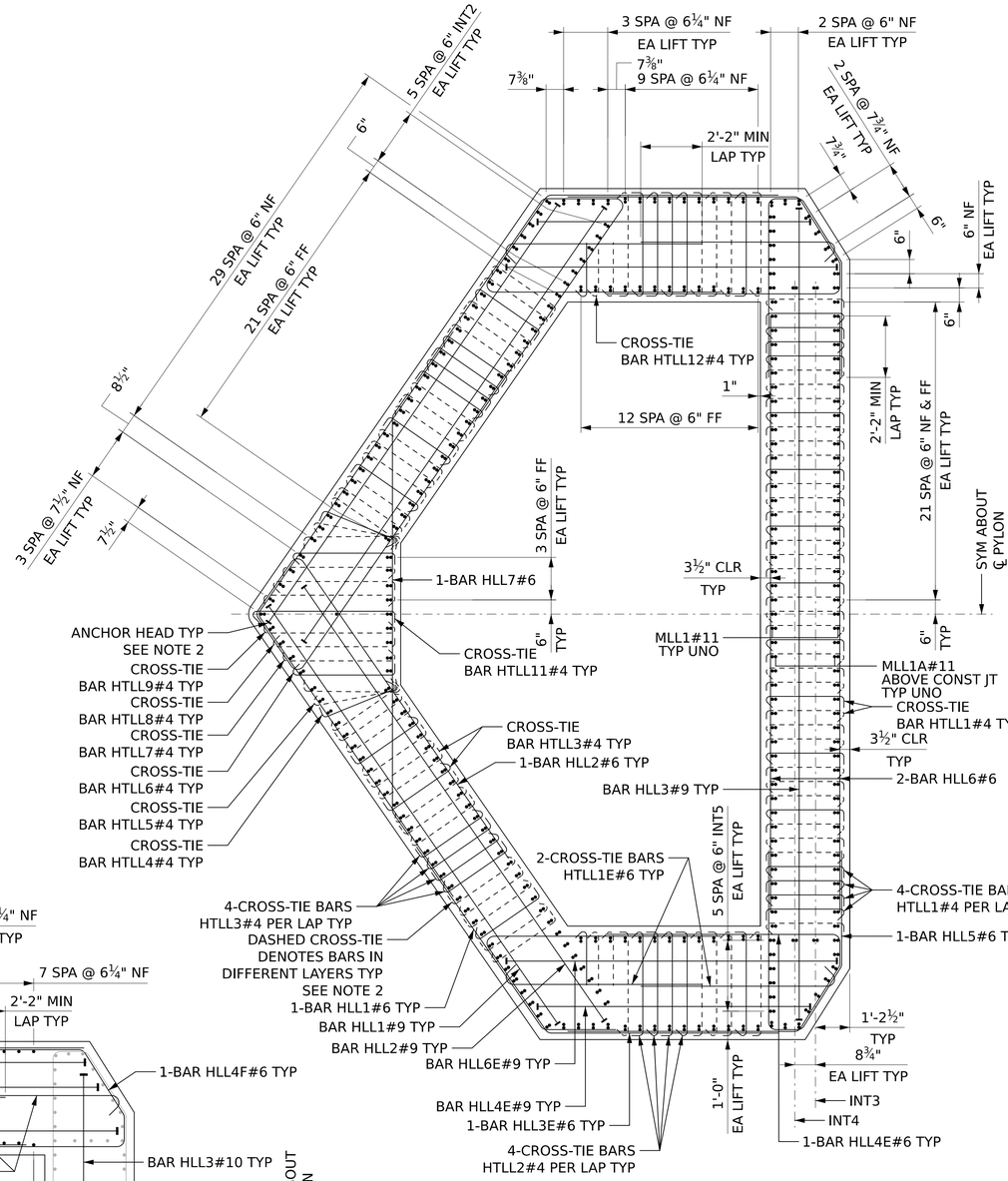


NOTES:

1. FOR ADDTIONAL NOTES, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 5" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.



PARTIAL SECTION M-M
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



SECTION L-L
SCALE: 3/8" = 1'-0"

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BRIDGE ENGINEER DATE

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A	KIE	04/04/2025	60% SUBMITTAL

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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

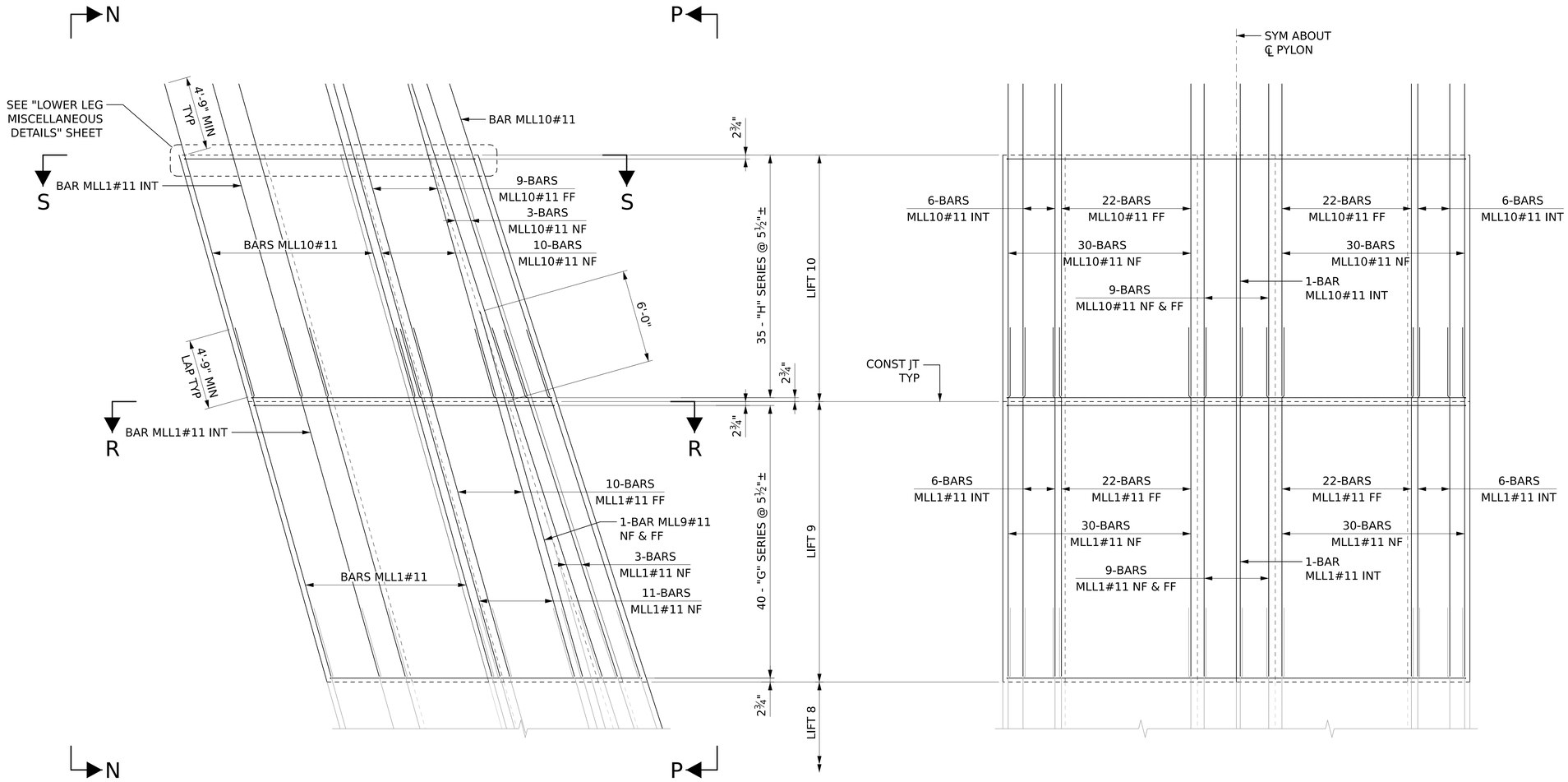
DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 6

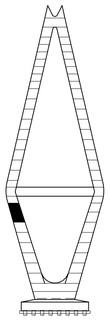
MRB-S04-BR-40196.dgn
Brad.Shepard
7:41:46 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40197



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW N-N
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
BAR DESIGNATION — AREA OF PYLON — BAR SIZE — BAR NUMBER
PB = PYLON BASE
LL = LOWER LEG
MP = MIDDLE PYLON & CROSS BEAM
UL = UPPER LEG
PH = PYLON HEAD

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. THE SOUTH PYLON LEG IS SIMILAR.
3. FOR VIEW P-P, SECTION R-R, SECTION S-S AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 8" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG REINFORCEMENT 7

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

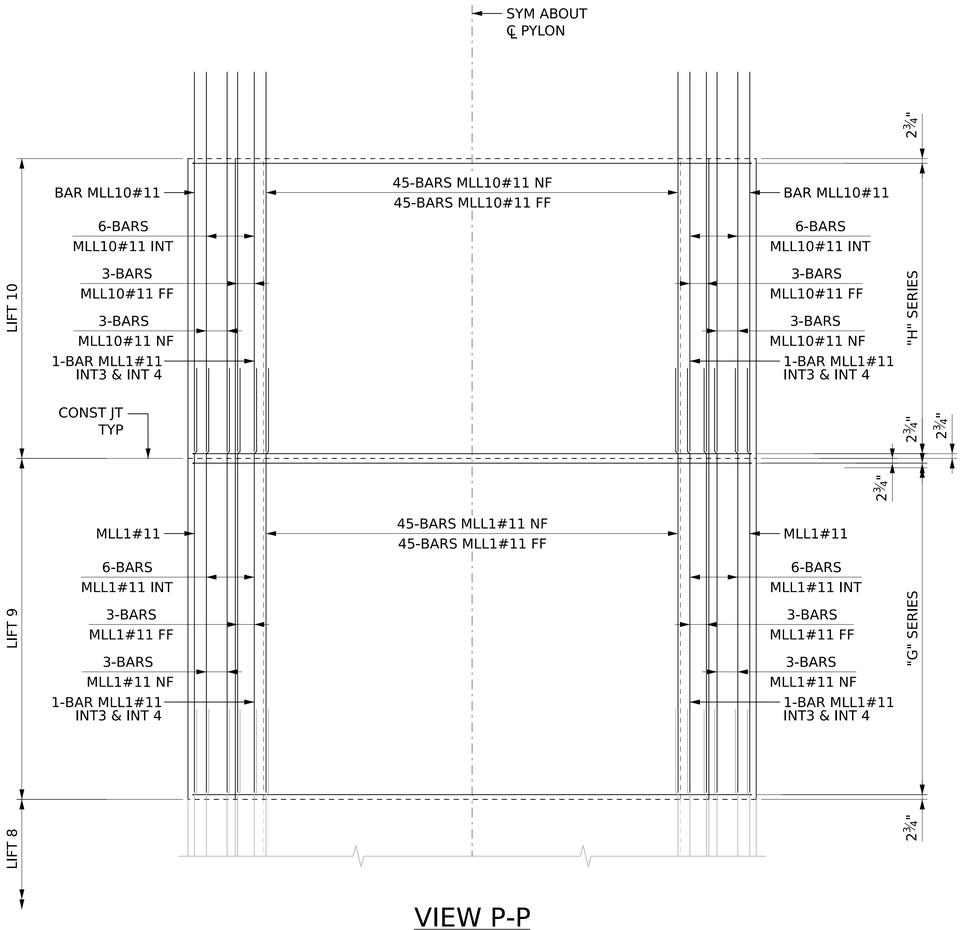
MRB-S04-BR-40197.dgn
Brad.Shepard
7:41:51 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40198

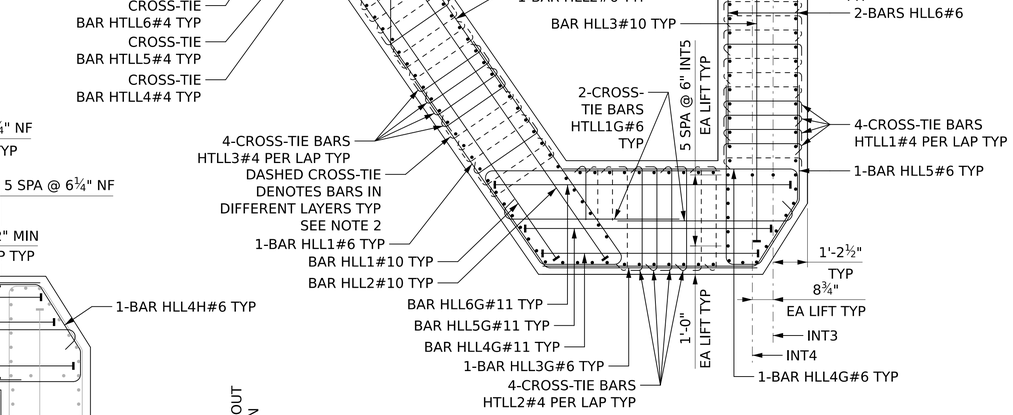
BAR SERIES LEGEND:

"G" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3G#6, 2-BARS HLL4G#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#10, 2-BARS HLL2#10, 1-BAR HLL3#10, 2-BARS HLL4G#11, 2-BARS HLL5G#11, 2-BARS HLL6G#11, 4-BARS HTLL1G#6, HTLL1#4 TO HTLL12#4

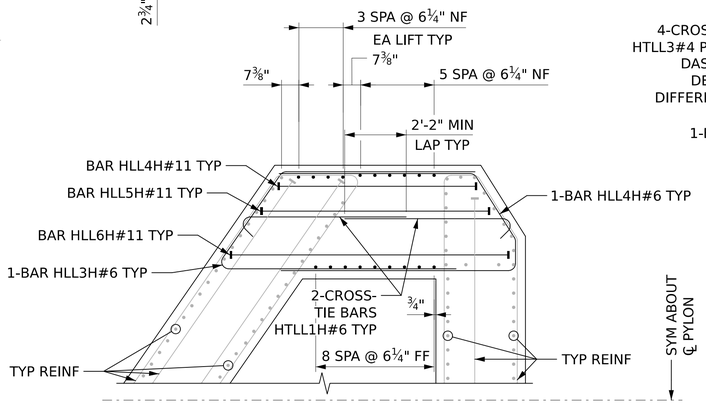
"H" SERIES: 2-BARS HLL1#6, 2-BARS HLL2#6, 2-BARS HLL3H#6, 2-BARS HLL4H#6, 2-BARS HLL5#6, 2-BARS HLL6#6, 1-BAR HLL7#6, 2-BARS HLL1#10, 2-BARS HLL2#10, 1-BAR HLL3#10, 2-BARS HLL4H#11, 2-BARS HLL5H#11, 2-BARS HLL6H#11, 4-BARS HTLL1H#6, HTLL1#4 TO HTLL12#4



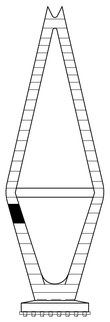
VIEW P-P
SCALE: 1/4" = 1'-0"



SECTION R-R
SCALE: 3/8" = 1'-0"



PARTIAL SECTION S-S
SCALE: 3/8" = 1'-0"
ALL REINFORCEMENT NOT SHOWN



NOTES:

1. FOR ADDTIONAL NOTES, SEE "PYLON P29 & P30 LOWER LEG REINFORCEMENT 7" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

LOWER LEG REINFORCEMENT 8

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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Brad.Shepard

7:41:56 PM

3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40199

PRELIMINARY
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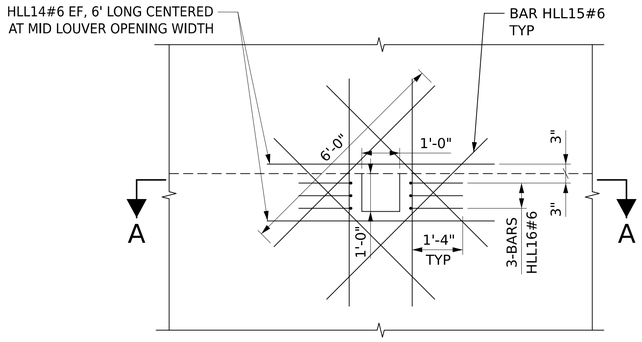
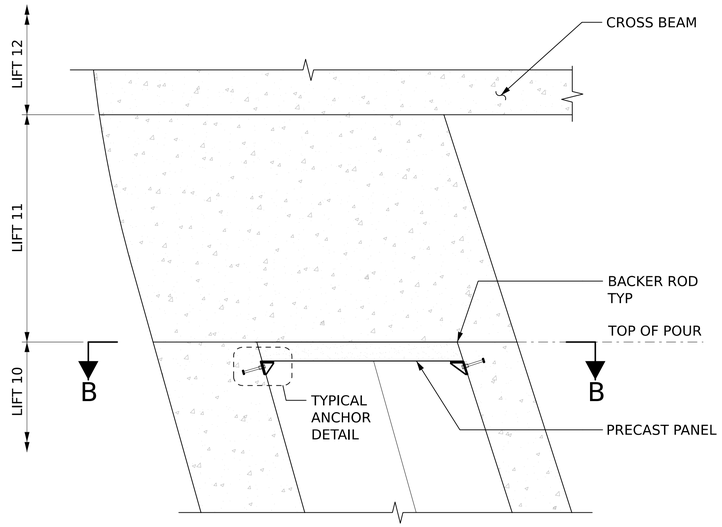
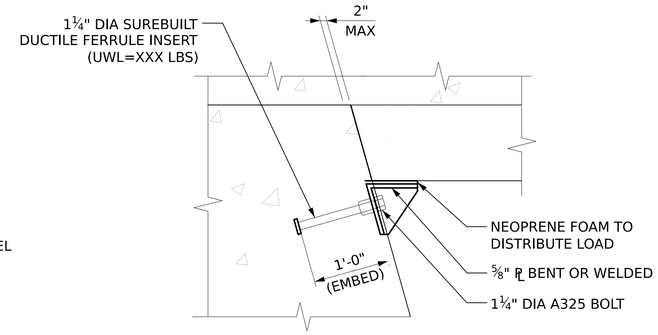


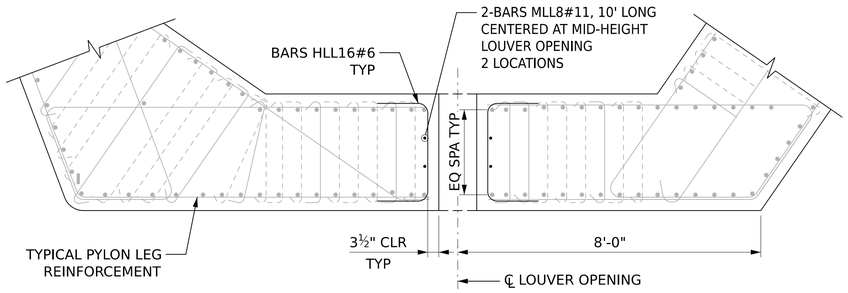
ELEVATION AT LOUVER OPENING
SCALE: 3/4" = 1'-0"



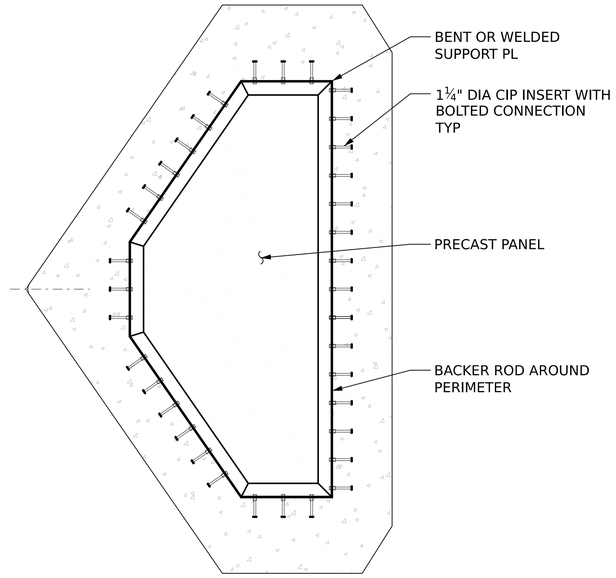
ELEVATION
SCALE: 1/2" = 1'-0"



TYPICAL ANCHOR DETAIL
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
LOWER LEG MISCELLANEOUS DETAILS

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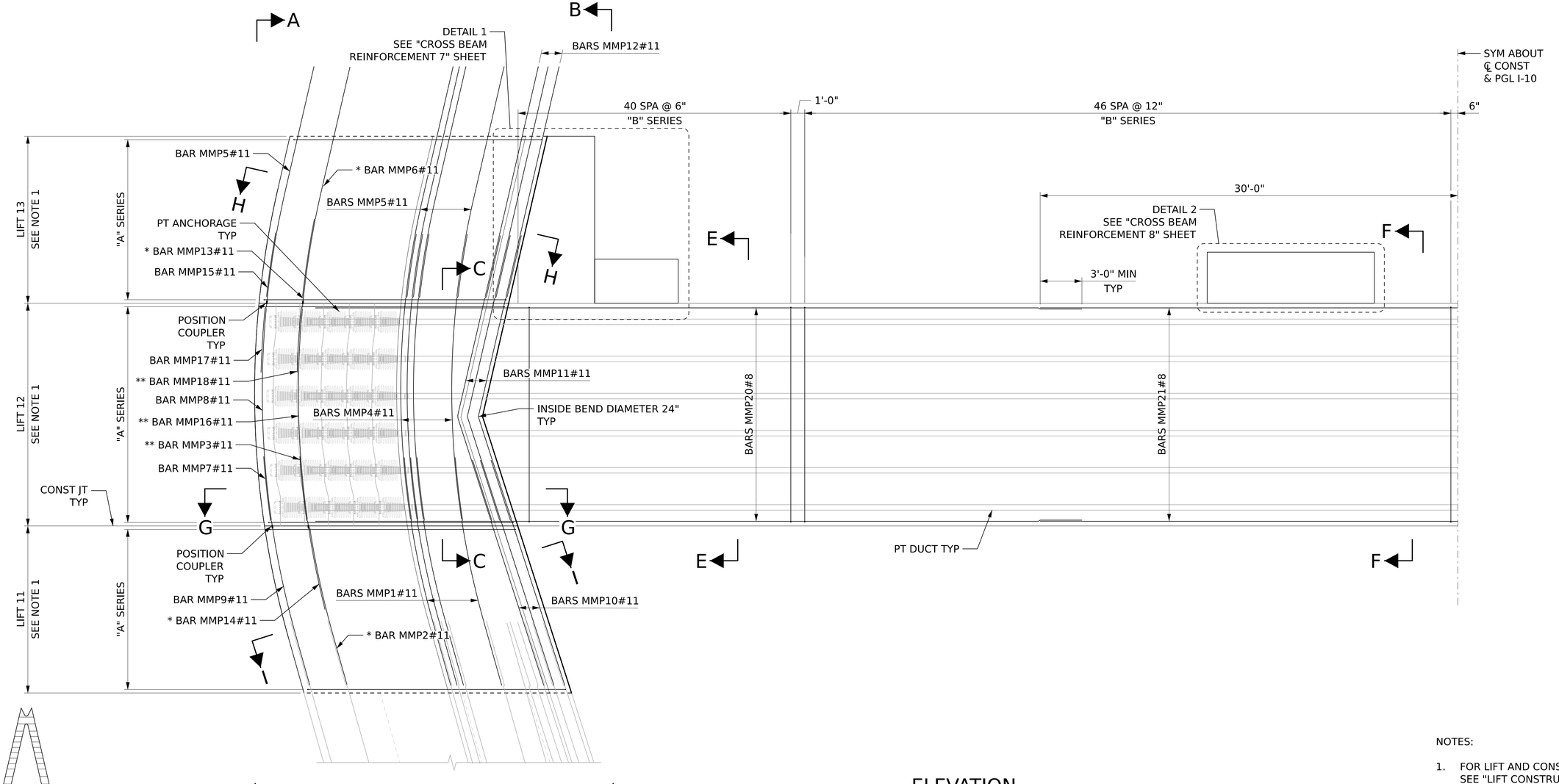
Brad.Shepard
7:42:21 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40221

BAR SERIES:

"A" SERIES: 1-BAR HMP1#6, 2-BAR HMP2#6, 2-BAR HMP3#6, 2-BAR HMP4#6, 2-BAR HMP5#6, 2-BAR HMP6#6,

"B" SERIES: 7-BAR SMP1#6, 7-BAR SMP2#6, 2-BAR SMP3#6, 2-BAR SMP4#6, 7-BAR SMP5#6



ELEVATION

SCALE: 1/4" = 1'-0"

BAR MARK LEGEND:
MUL1#11
BAR DESIGNATION — AREA OF PYLON — BAR SIZE — BAR NUMBER

PB = PYLON BASE
LL = LOWER LEG
MP = MIDDLE PYLON & CROSS BEAM
UL = UPPER LEG
PH = PYLON HEAD

* BARS NONCONTACT LAP SPLICED

** BAR LOCATED TO MISS PT ANCHORAGE

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. FOR VIEW A-A AND SECTION B-B THROUGH SECTION I-I, SEE PYLON P29 & P30 CROSS BEAM REINFORCEMENT 2 TROUGH REINFORCEMENT 6" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

CROSS BEAM REINFORCEMENT 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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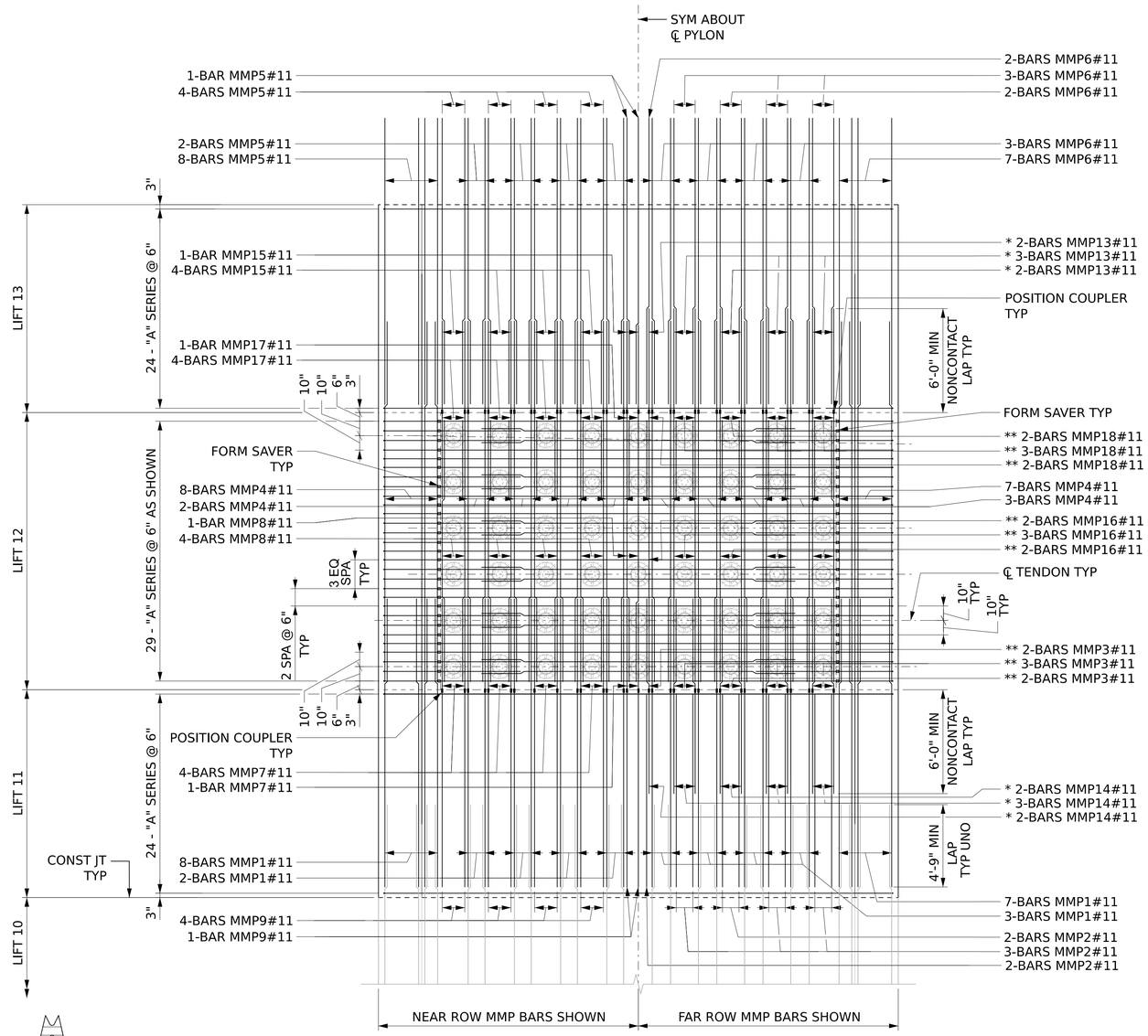
Adriana.Albarano

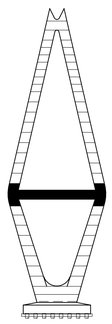
10:35:19 AM

3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40222

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



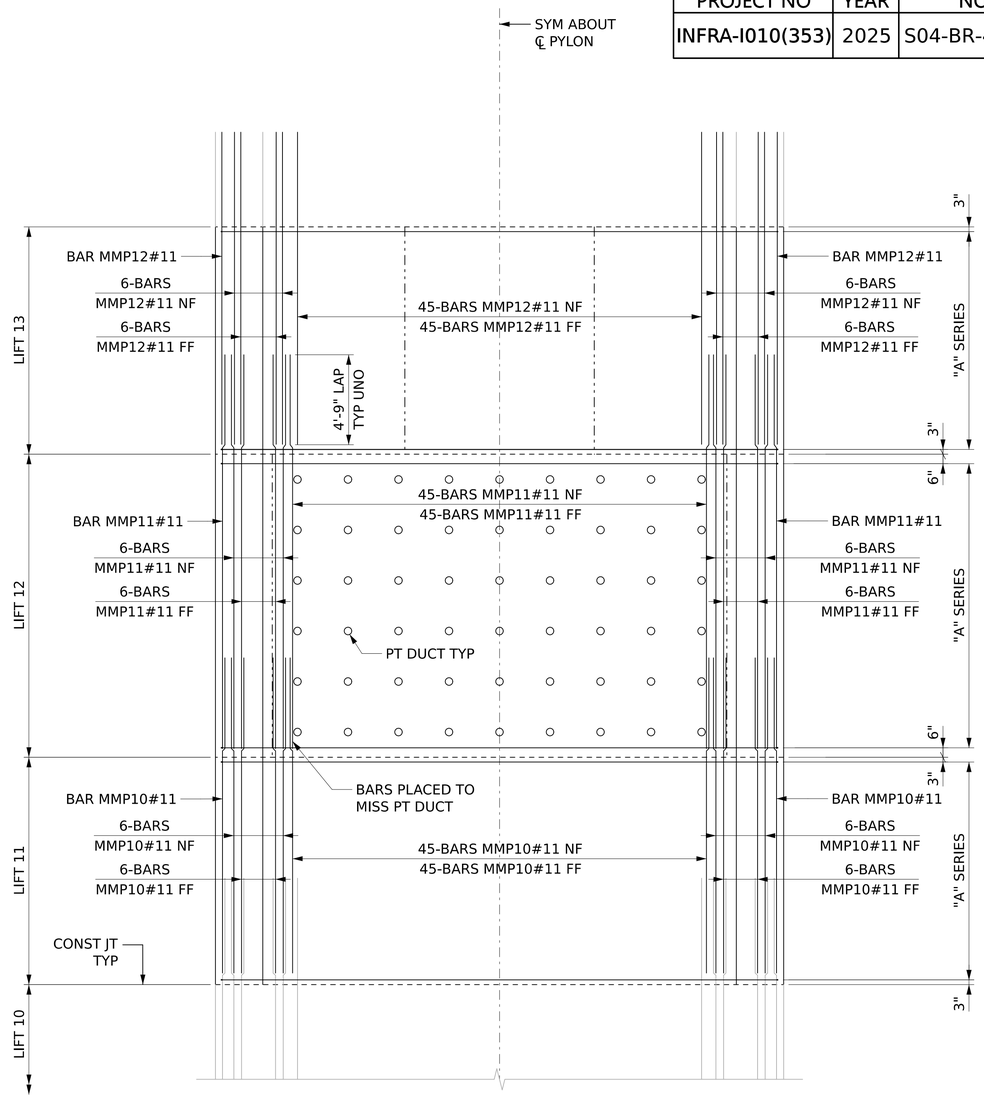


* BARS NONCONTACT LAP SPLICED

** BAR LOCATED TO MISS PT ANCHORAGE

VIEW A-A

SCALE: 1/4" = 1'-0"
(ALL REINFORCEMENT NOT SHOWN FOR CLARITY)



SECTION B-B

SCALE: 1/4" = 1'-0"
(ALL REINFORCEMENT NOT SHOWN FOR CLARITY)

NOTES:

1. FOR SECTION CUT LOCATIONS, SEE "PYLON P29 & P30 CROSS BEAM REINFORCING 1" SHEET.
2. SEE SECTION G-G ON "CROSS BEAM REINFORCEMENT 5" SHEET FOR LOCATION OF BARS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 2

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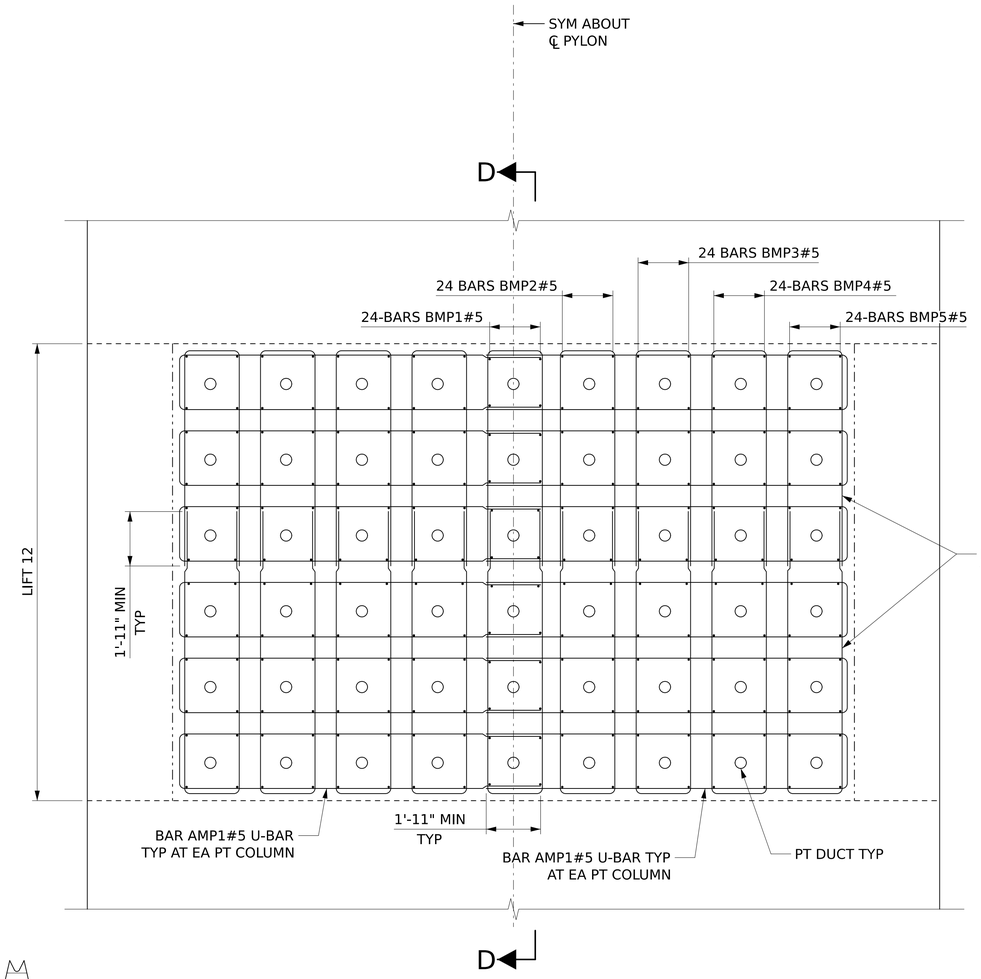
7:42:34 PM
3/13/2025

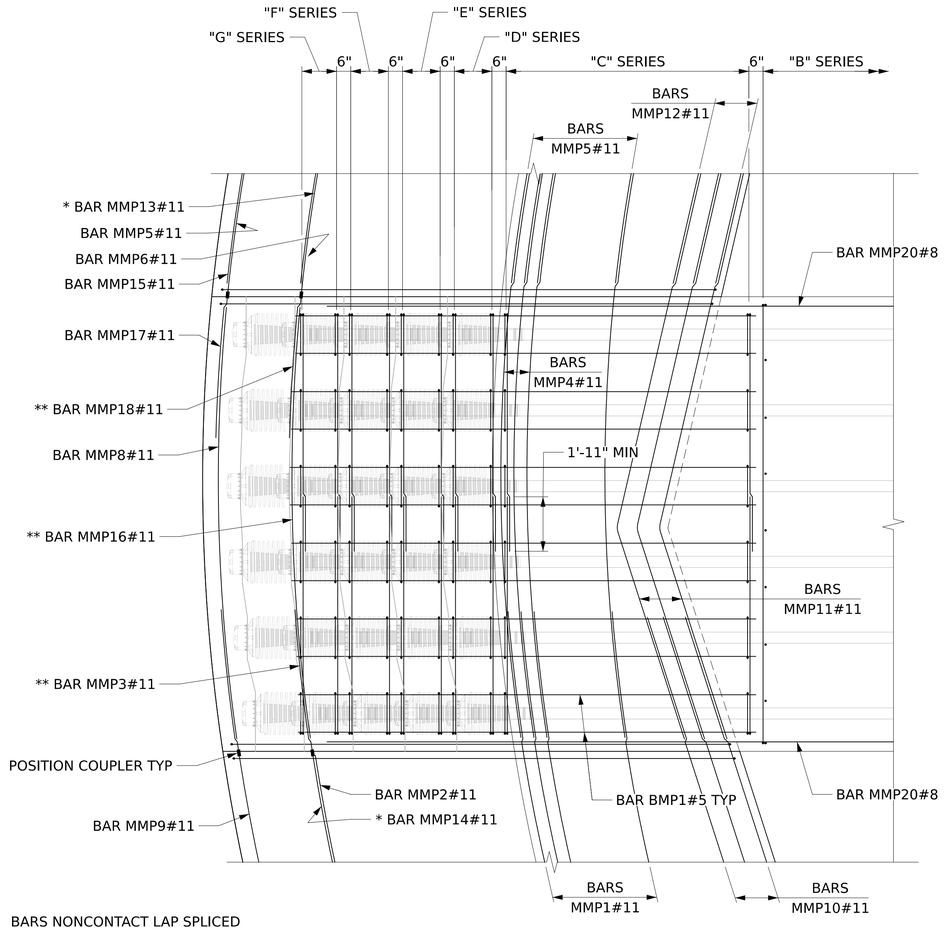
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40223

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



SECTION C-C

SCALE: 3/8" = 1'-0"
(ALL REINFORCEMENT NOT SHOWN FOR CLARITY)



* BARS NONCONTACT LAP SPLICED

** BAR LOCATED TO MISS PT ANCHORAGE

SECTION D-D

SCALE: 3/8" = 1'-0"
(ALL REINFORCEMENT NOT SHOWN FOR CLARITY)

NOTES:

1. FOR SECTION CUT LOCATIONS, SEE "PYLON P29 & P30 CROSS BEAM REINFORCING 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
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Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

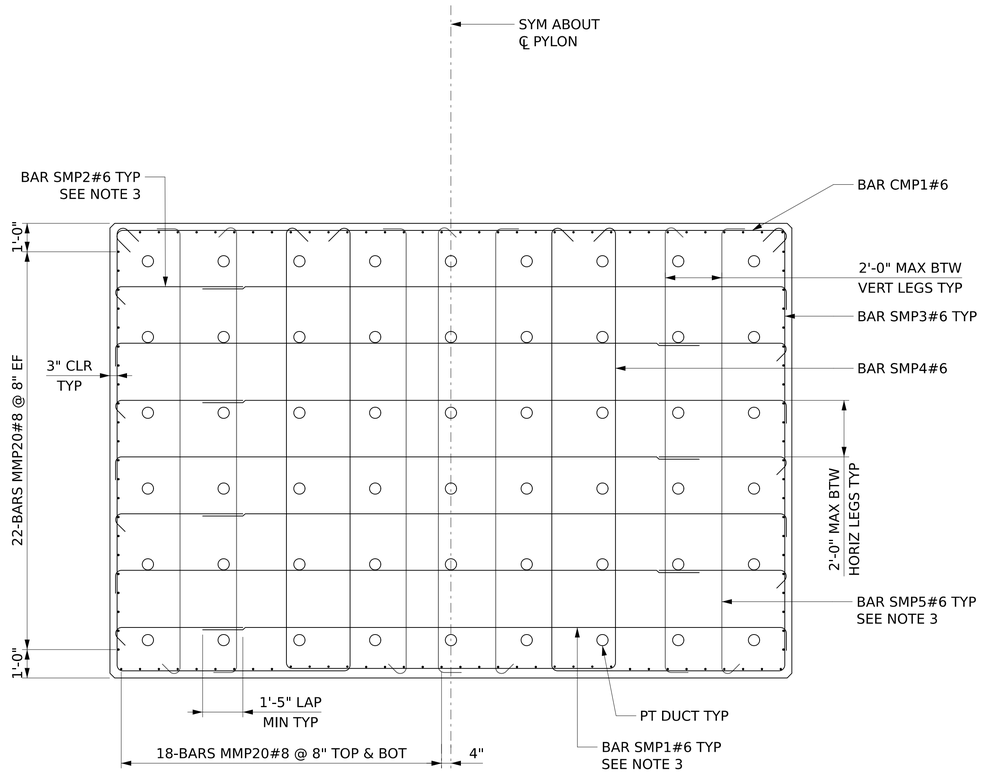
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 3

MRB-S04-BR-40223.dgn
Brad.Shepard
7:42:41 PM
3/13/2025

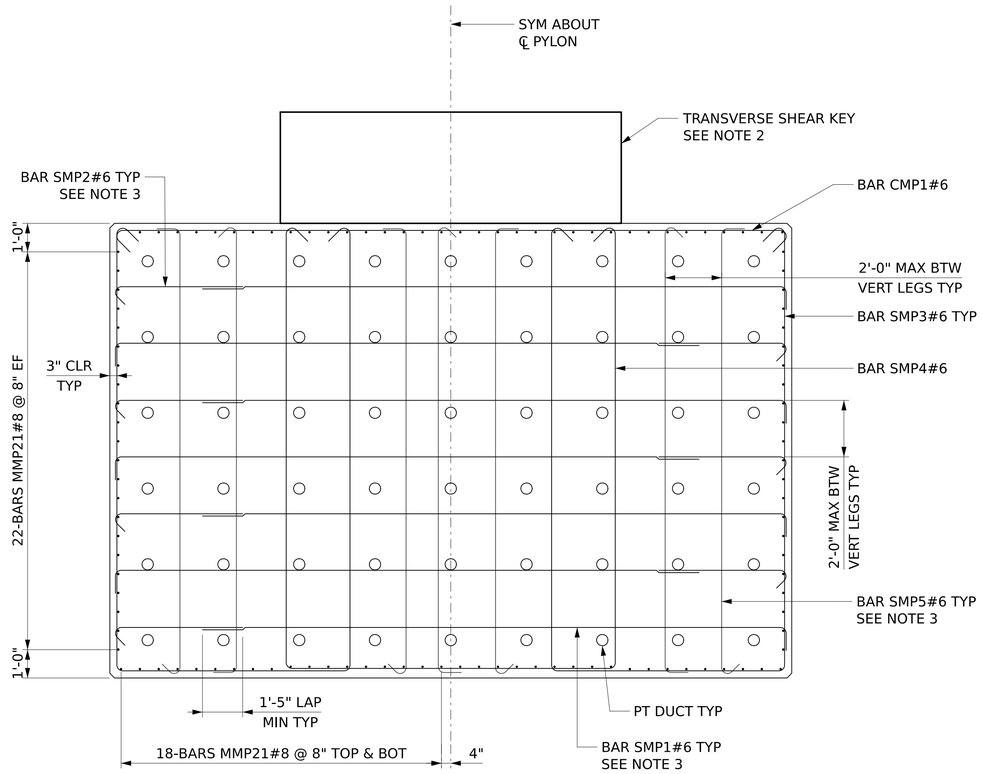
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40224

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



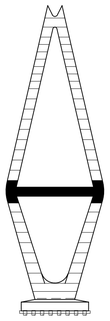
SECTION E-E

SCALE: 3/8" = 1'-0"



SECTION F-F

SCALE: 3/8" = 1'-0"



NOTES:

1. FOR SECTION CUT LOCATIONS, SEE "PYLON P29 & P30 CROSS BEAM REINFORCING 1" SHEET.
2. FOR TRANSVERSE SHEAR KEY REINFORCEMENT, SEE "PYLON P29 & P30 CROSS BEAM REINFORCEMENT 8" SHEET.
3. ALTERNATE 90 DEGREE AND 135 DEGREE ENDS HORIZONTAL AND VERTICALLY AS SHOWN.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 4

MRB-S04-BR-40224.dgn
Brad.Shepard
7:42:48 PM
3/13/2025

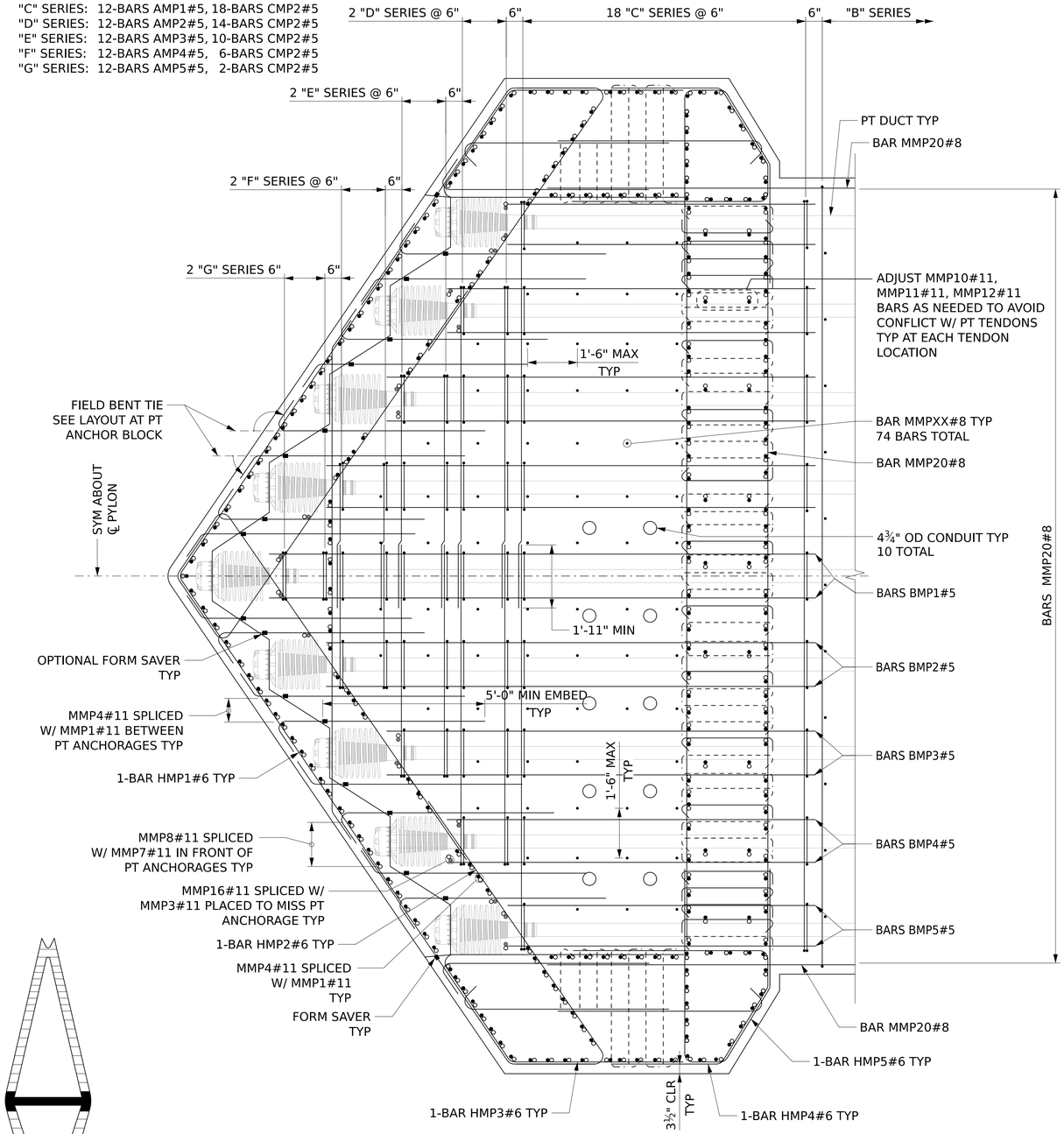
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40225

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"

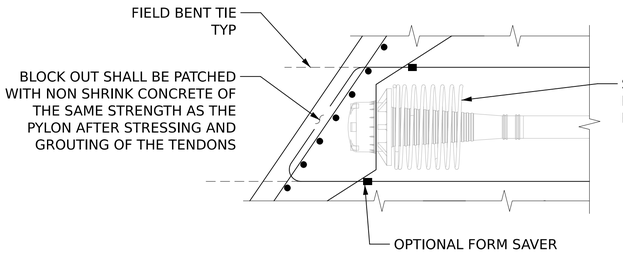
BAR SERIES:

"C" SERIES: 12-BARS AMP1#5, 18-BARS CMP2#5
"D" SERIES: 12-BARS AMP2#5, 14-BARS CMP2#5
"E" SERIES: 12-BARS AMP3#5, 10-BARS CMP2#5
"F" SERIES: 12-BARS AMP4#5, 6-BARS CMP2#5
"G" SERIES: 12-BARS AMP5#5, 2-BARS CMP2#5

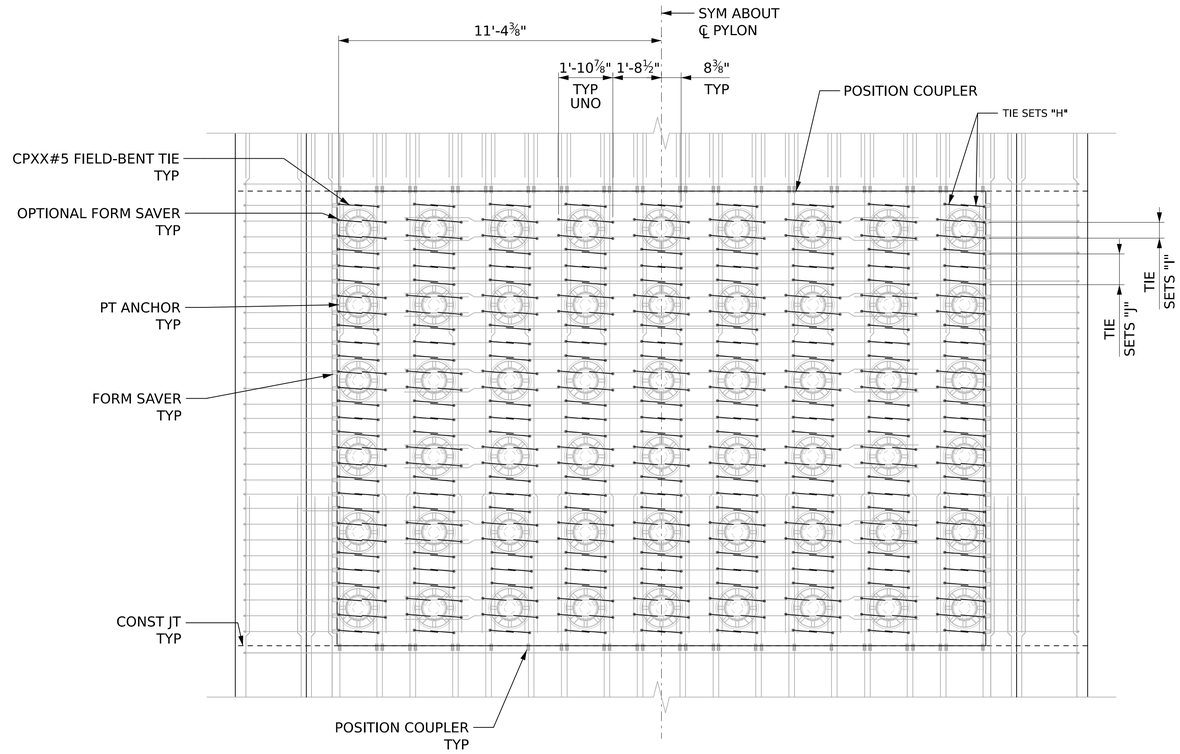


SECTION G-G

SCALE: 1/2" = 1'-0"



TYPICAL DETAILS AT TENDON ANCHORAGE



ELEVATION
FIELD BENT TIE LAYOUT AT PT ANCHOR BLOCKOUT

SCALE: 3/8" = 1'-0"

NOTES:

1. FOR SECTION CUT LOCATIONS, SEE "PYLON P29 & P30 CROSS BEAM REINFORCING 1" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

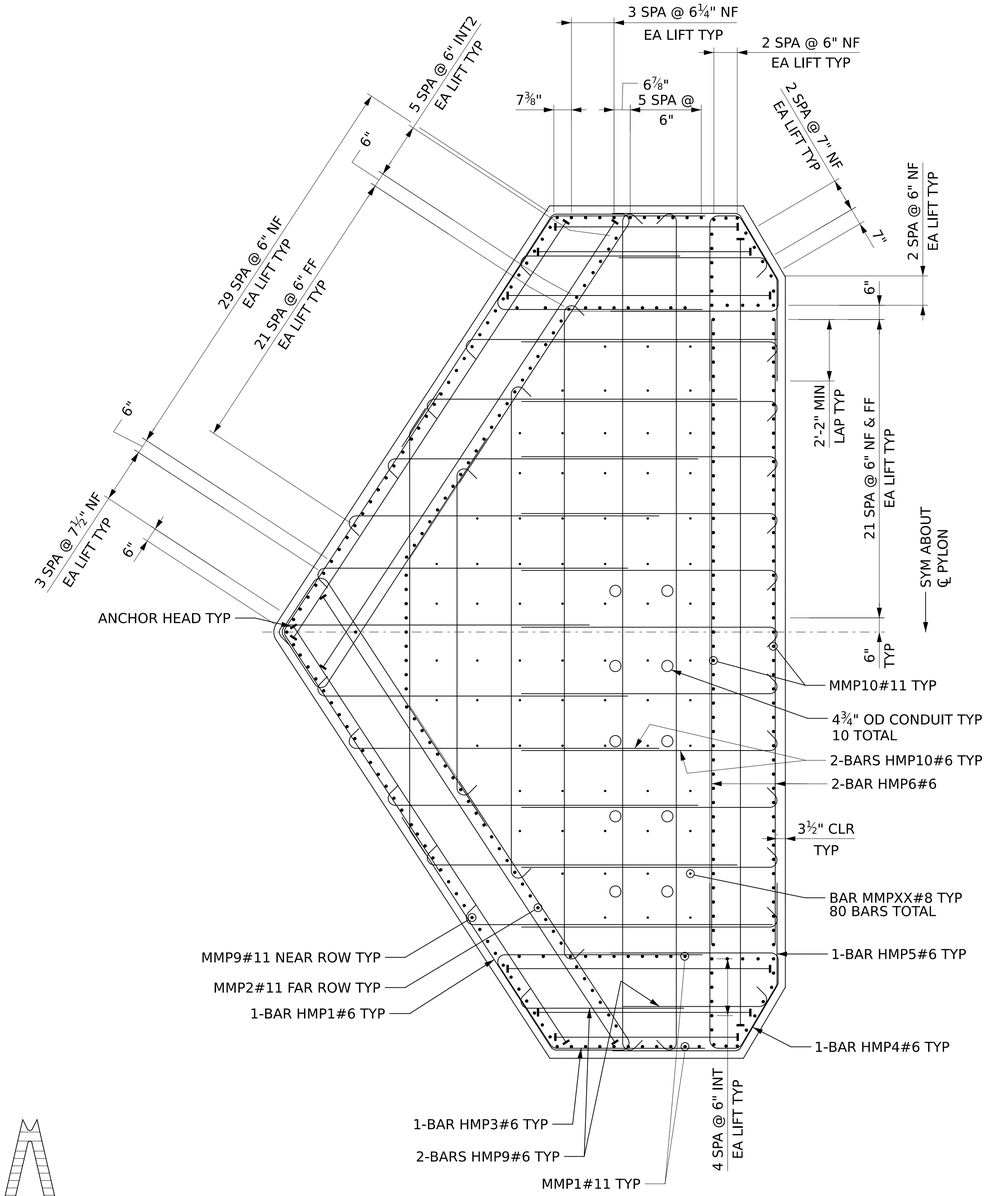
DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

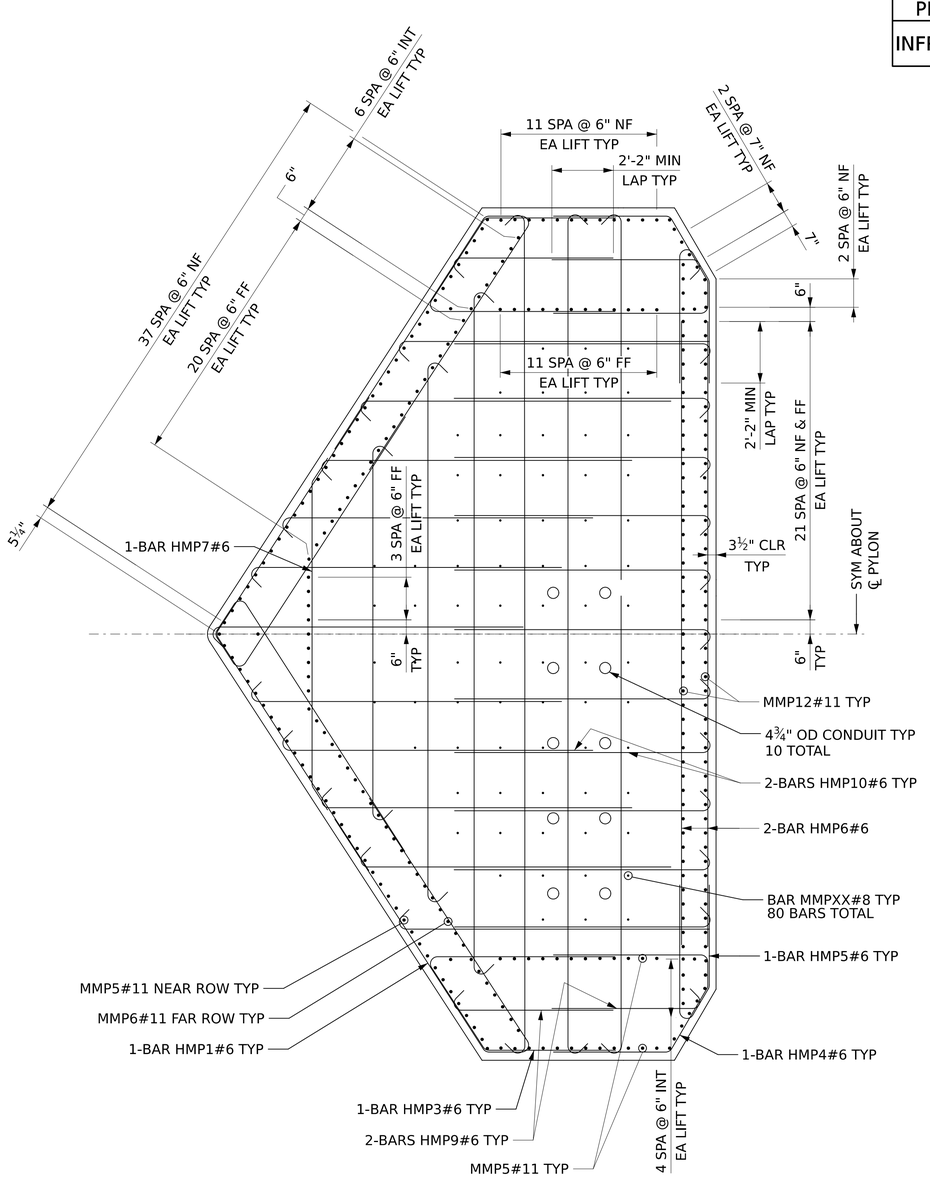
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 5

MRB-S04-BR-40225.dgn
Adriana.Albarano
4:29:42 PM
3/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40226



SECTION I-I
SCALE: 3/8" = 1'-0"



SECTION H-H
SCALE: 3/8" = 1'-0"

NOTE:

1. FOR SECTION LOCATIONS, SEE "PYLON P29 & P30 CROSS BEAM REINFORCEMENT 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

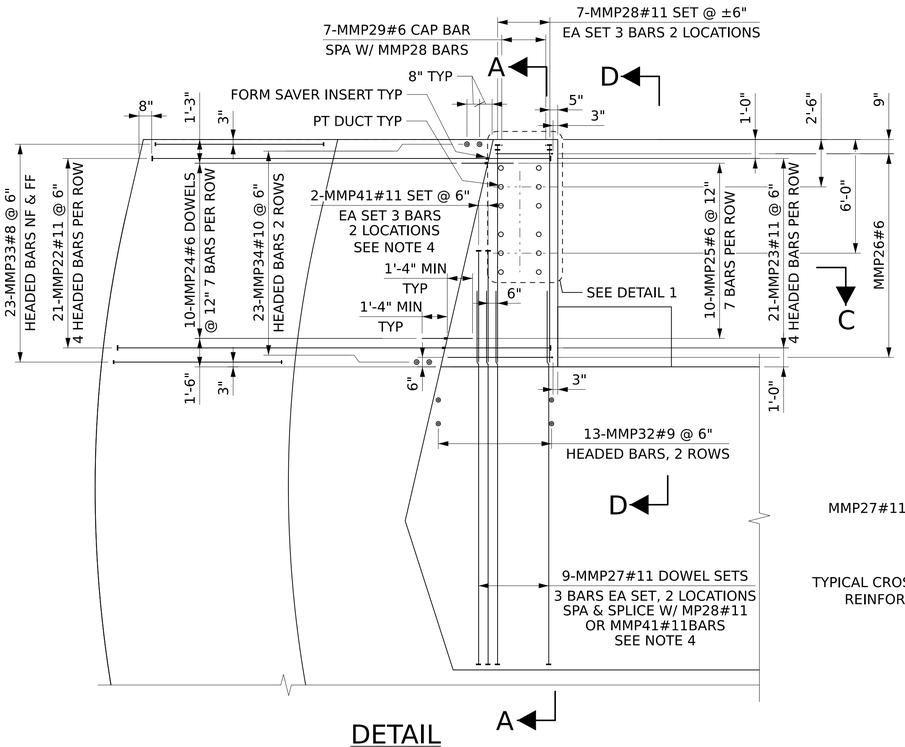
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 6

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40226.dgn
Adriana.Albarano
2:48:48 PM
3/27/2025

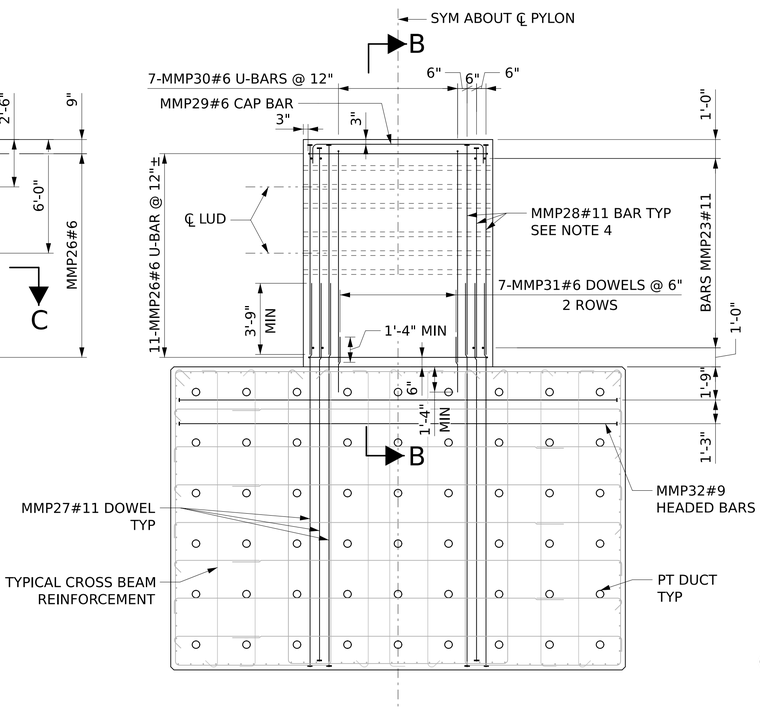
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40227

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



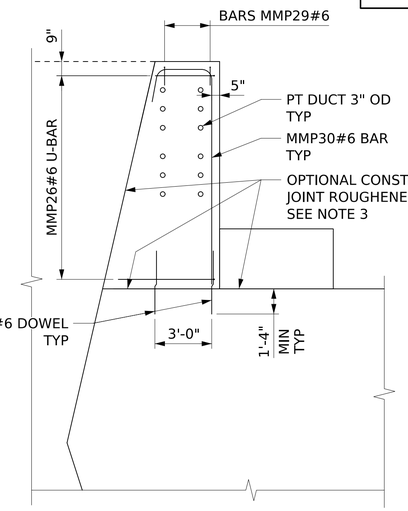
DETAIL

SCALE: 1/4" = 1'-0"
(PYLON LEG AND PYLON CROSS BEAM REINFORCING NOT SHOWN FOR CLARITY)



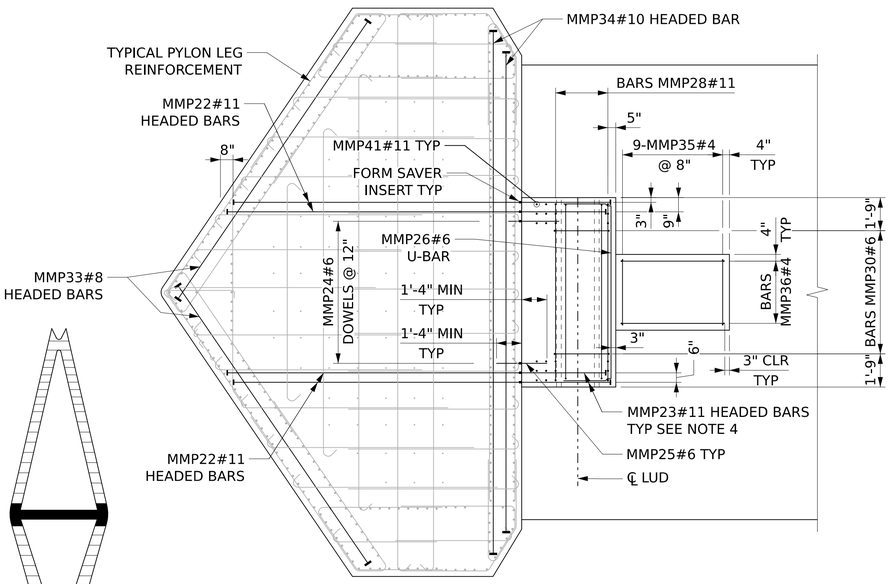
SECTION A-A

SCALE: 1/4" = 1'-0"



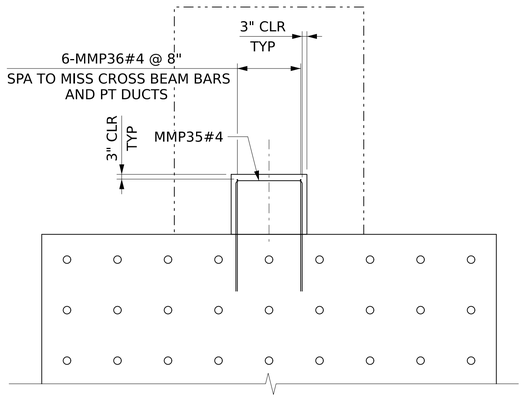
SECTION B-B

SCALE: 1/4" = 1'-0"
(PYLON LEG AND PYLON CROSS BEAM REINFORCING NOT SHOWN FOR CLARITY)



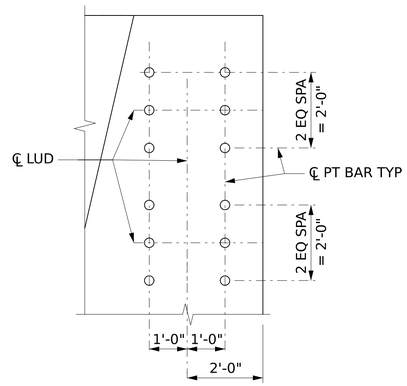
SECTION C-C

SCALE: 1/4" = 1'-0"
(PYLON CROSS BEAM REINFORCING NOT SHOWN FOR CLARITY)



SECTION D-D

SCALE: 1/4" = 1'-0"
(PYLON LEG AND PYLON CROSS BEAM REINFORCING NOT SHOWN FOR CLARITY)



DETAIL 1

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR LUD SHEAR KEY AND PEDESTAL DIMENSIONS, SEE "PYLON P29 & P30 DETAILS 3" SHEET.
2. PT BARS SHALL BE 1¾" DIAMETER ASTM A722 GRADE 150 TYPE II.
3. CONSTRUCTION JOINT SHALL BE ROUGHENED TO AN AMPLITUDE OF ¼".
4. STAGGER ANCHOR HEADS BETWEEN LAYERS AND ADJACENT BARS IN A LAYER AS SHOWN IN ANCHOR HEAD DETAIL ON "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

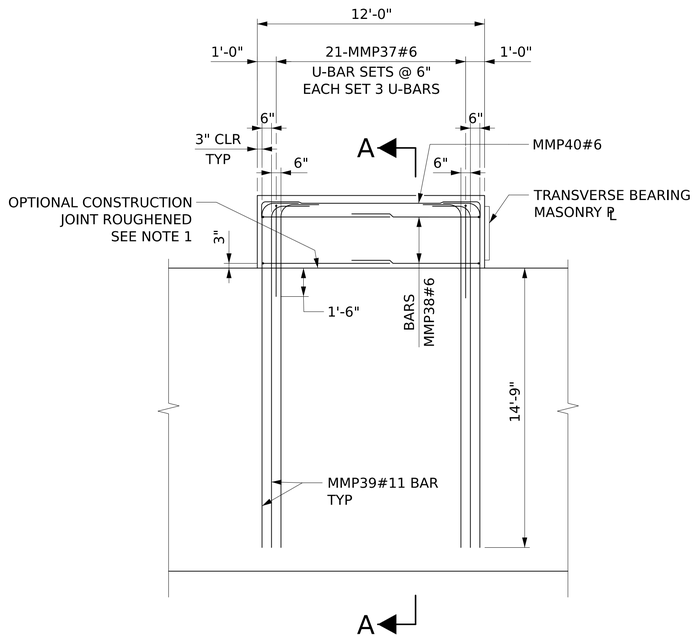
DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
CROSS BEAM REINFORCEMENT 7

MRB-S04-BR-40227.dgn
Adriana.Albarano
11:28:33 AM
3/14/2025

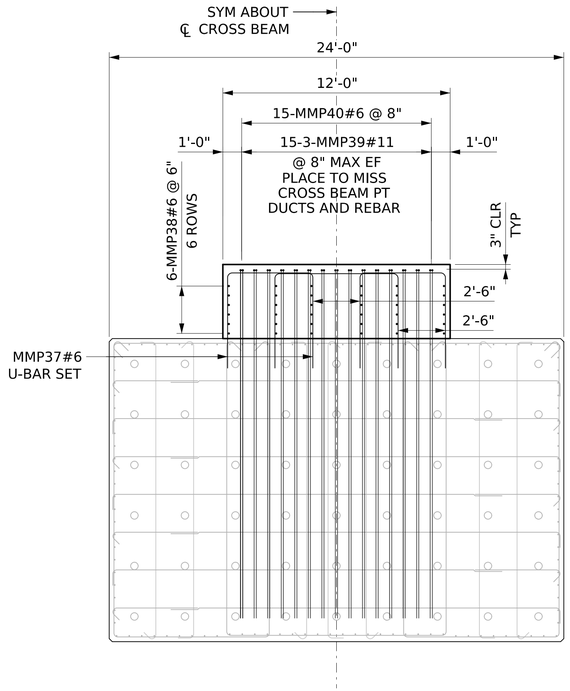
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40228



DETAIL 2

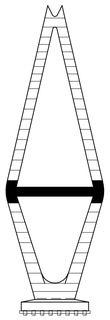
SCALE: 1/4" = 1'-0"

PYLON CROSS BEAM REINFORCING NOT SHOWN FOR CLARITY



SECTION A-A

SCALE: 1/4" = 1'-0"



NOTE:

1. CONSTRUCTION JOINT SHALL BE ROUGHENED TO AN AMPLITUDE OF ¼".

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 AND P30

CROSS BEAM REINFORCEMENT 8

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40228.dgn

Brad.Shepard

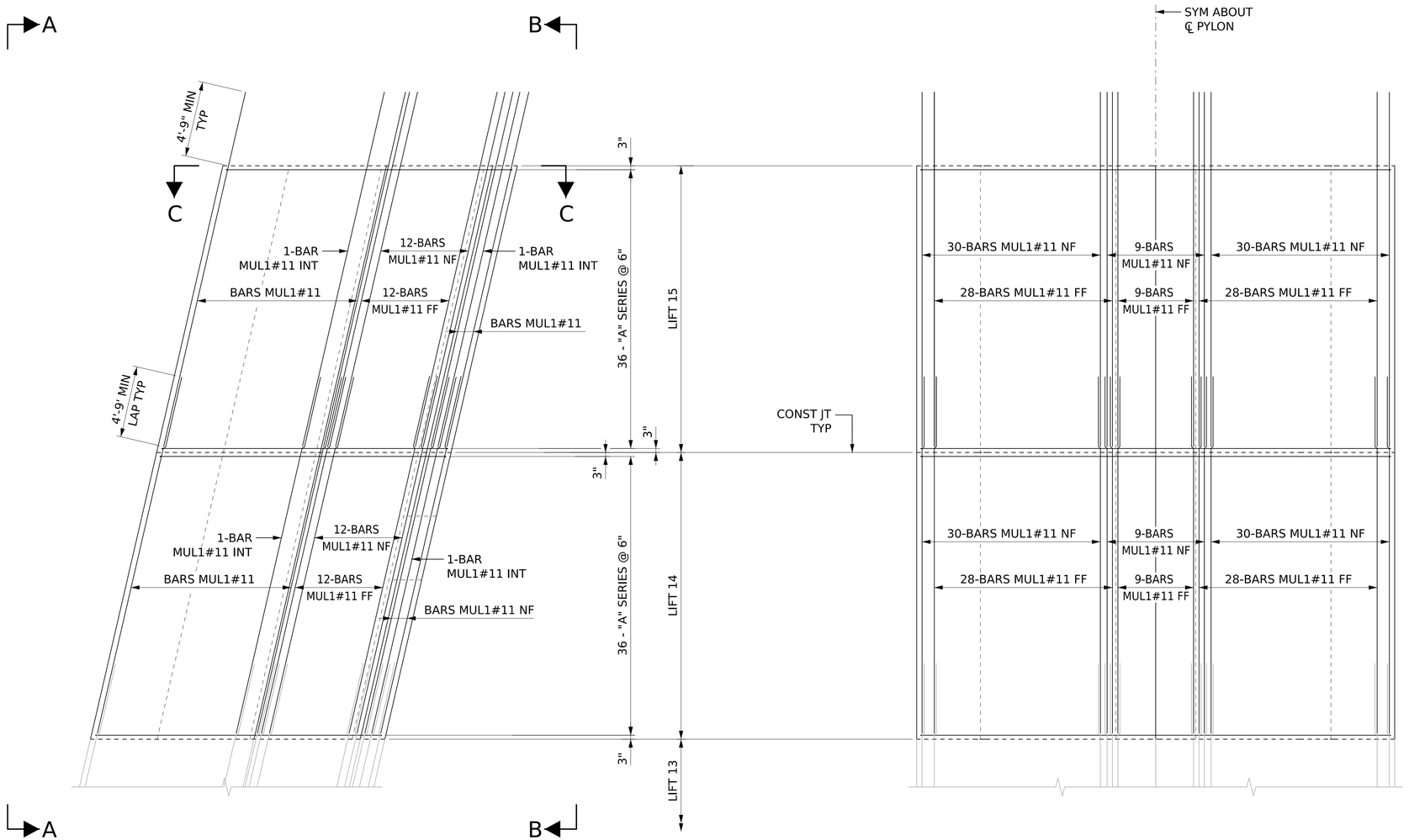
7:43:15 PM

3/13/2025

SHEET REFERENCE 0 1" 2"

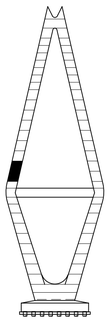
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40231

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW A-A
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW B-B, SECTION C-C AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 2" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

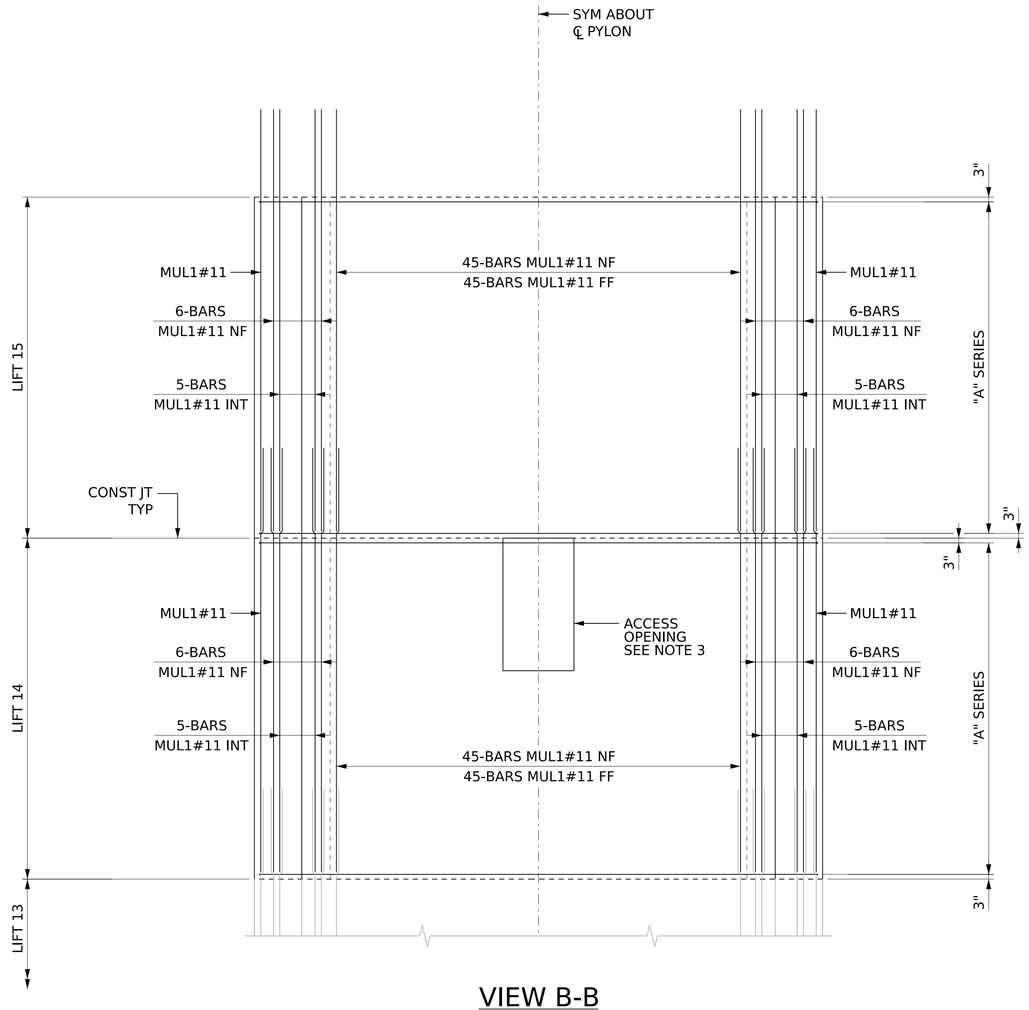
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 1

MRB-S04-BR-40231.dgn
Brad.Shepard
10:36:49 AM
3/14/2025

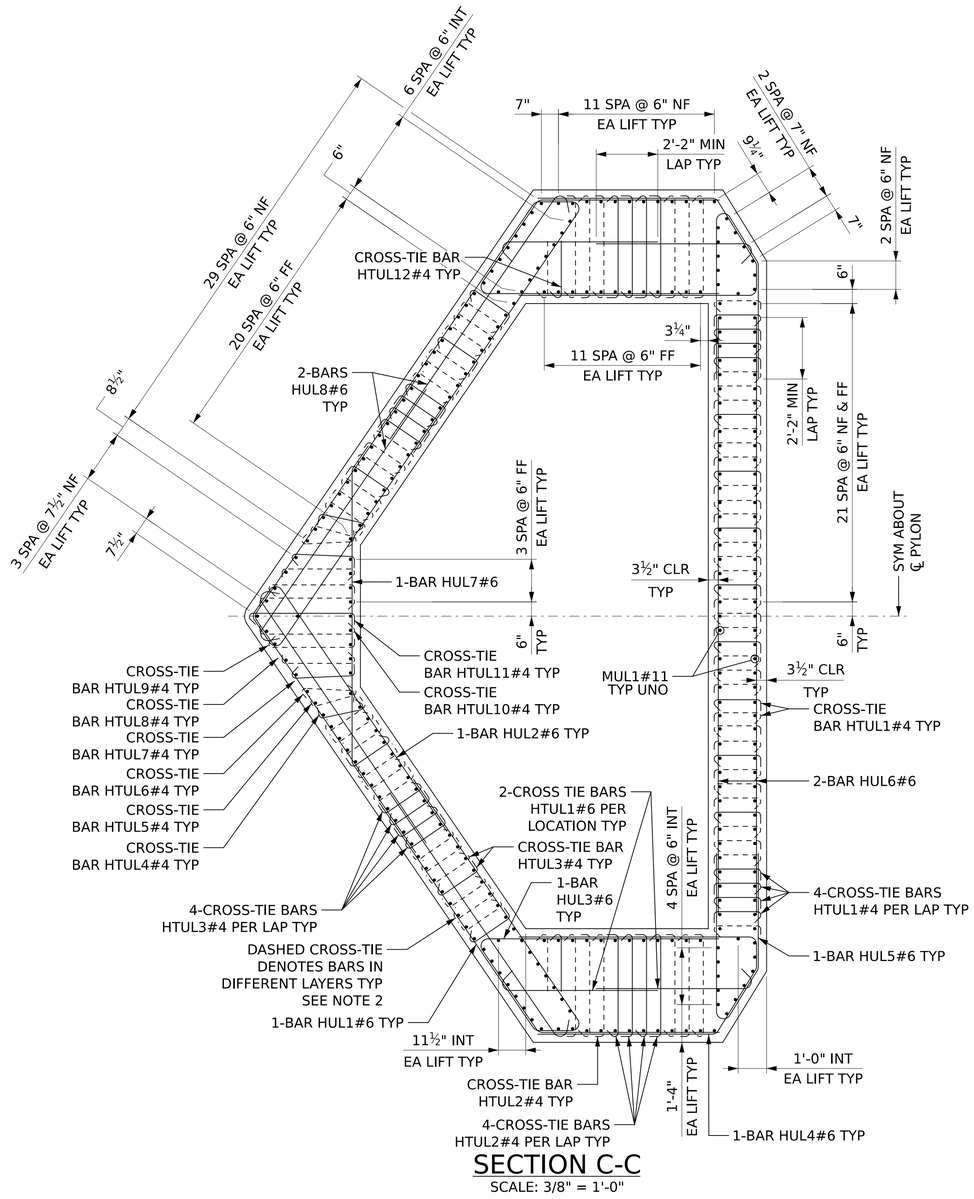
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40232

BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6, 2-BAR HUL5#6,
2-BARS HUL6#6, AND 1-BAR HUL7#6, 4-BARS HUL8#6, (LIFT 15 ONLY)
4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



VIEW B-B
SCALE: 1/4" = 1'-0"



SECTION C-C
SCALE: 3/8" = 1'-0"

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 1" SHEET.
2. FOR ADDITIONAL CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR ACCESS OPENING DETAILS, SEE "PYLON P29 & P30 ACCESS OPENING DETAILS" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

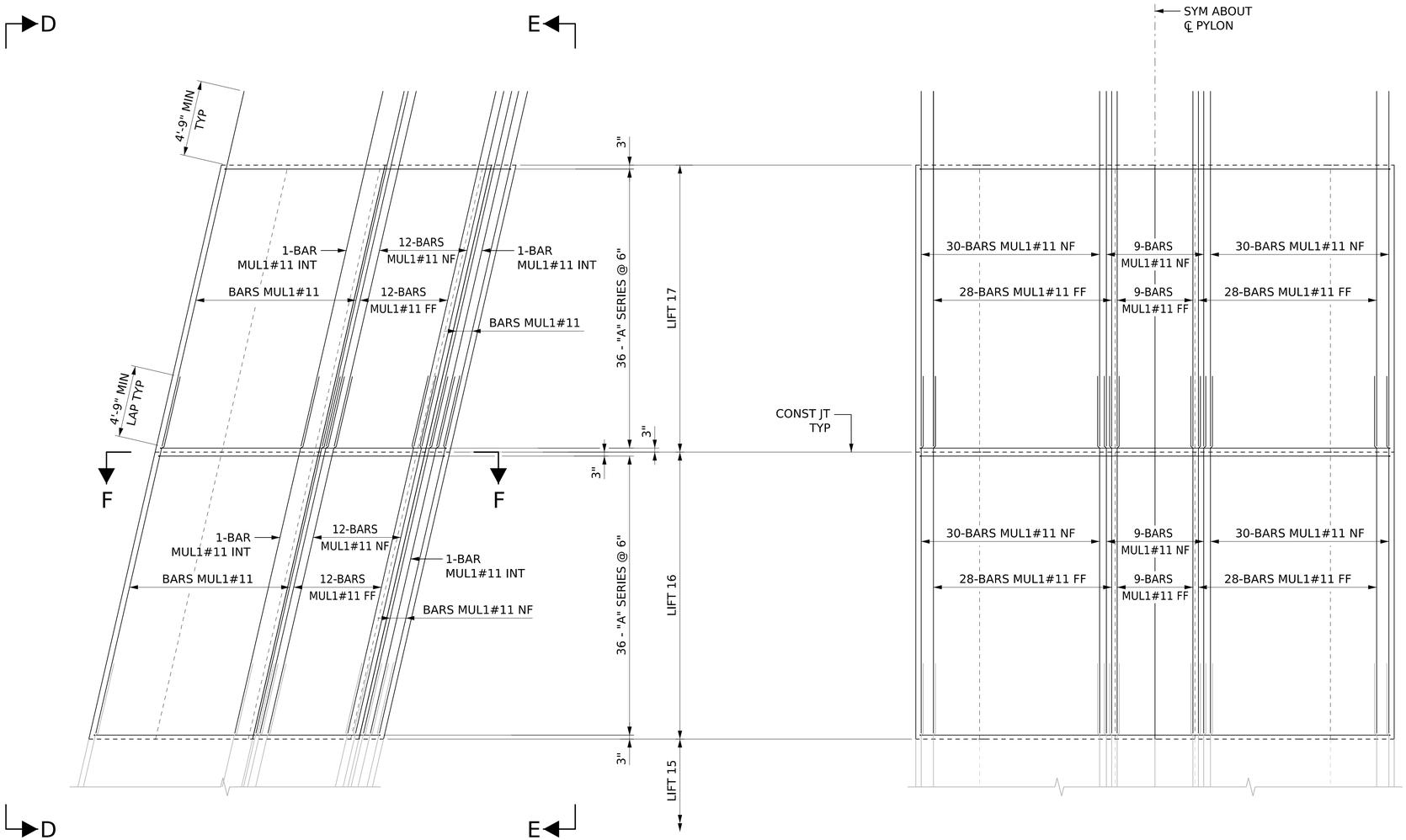
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 2

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40232.dgn
Brad.Shepard
10:36:56 AM
3/14/2025

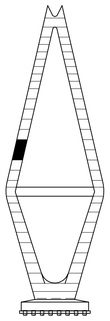
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40233

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW D-D
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW E-E, SECTION F-F AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 4" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE
Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

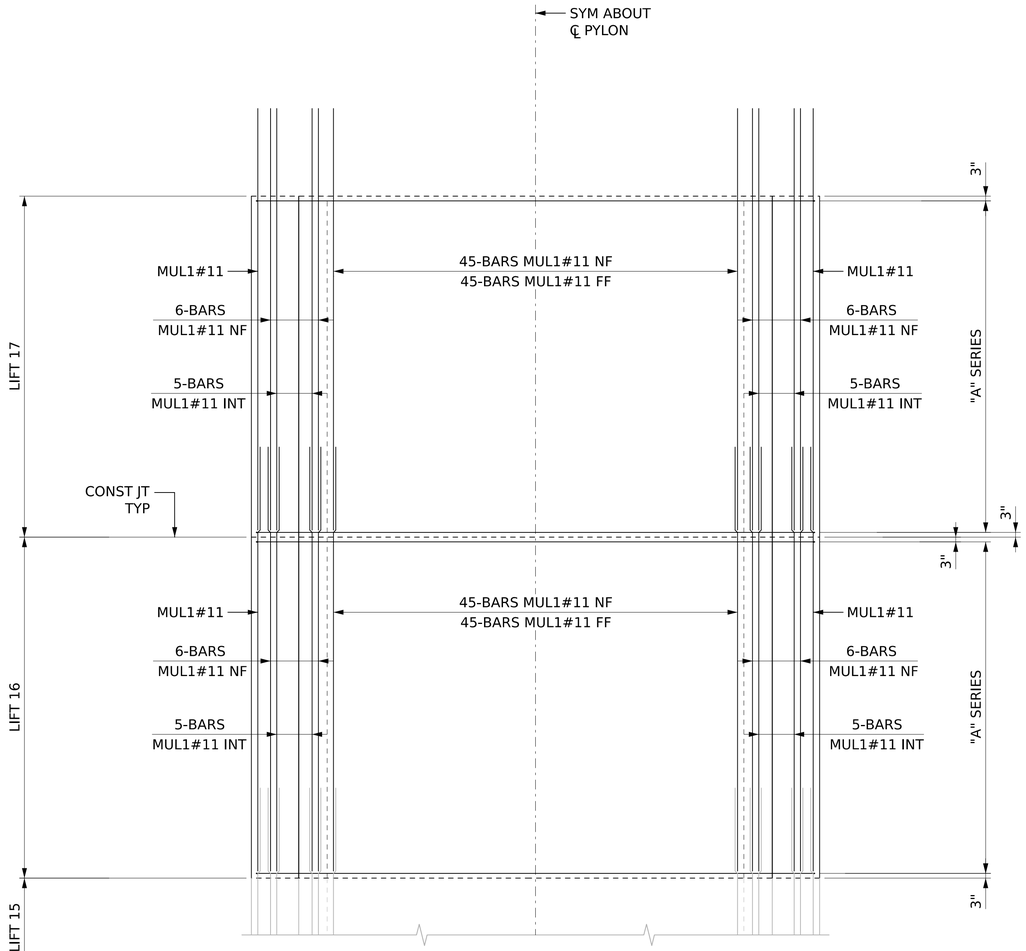
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 3

MRB-S04-BR-40233.dgn
Brad.Shepard
10:37:01 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40234

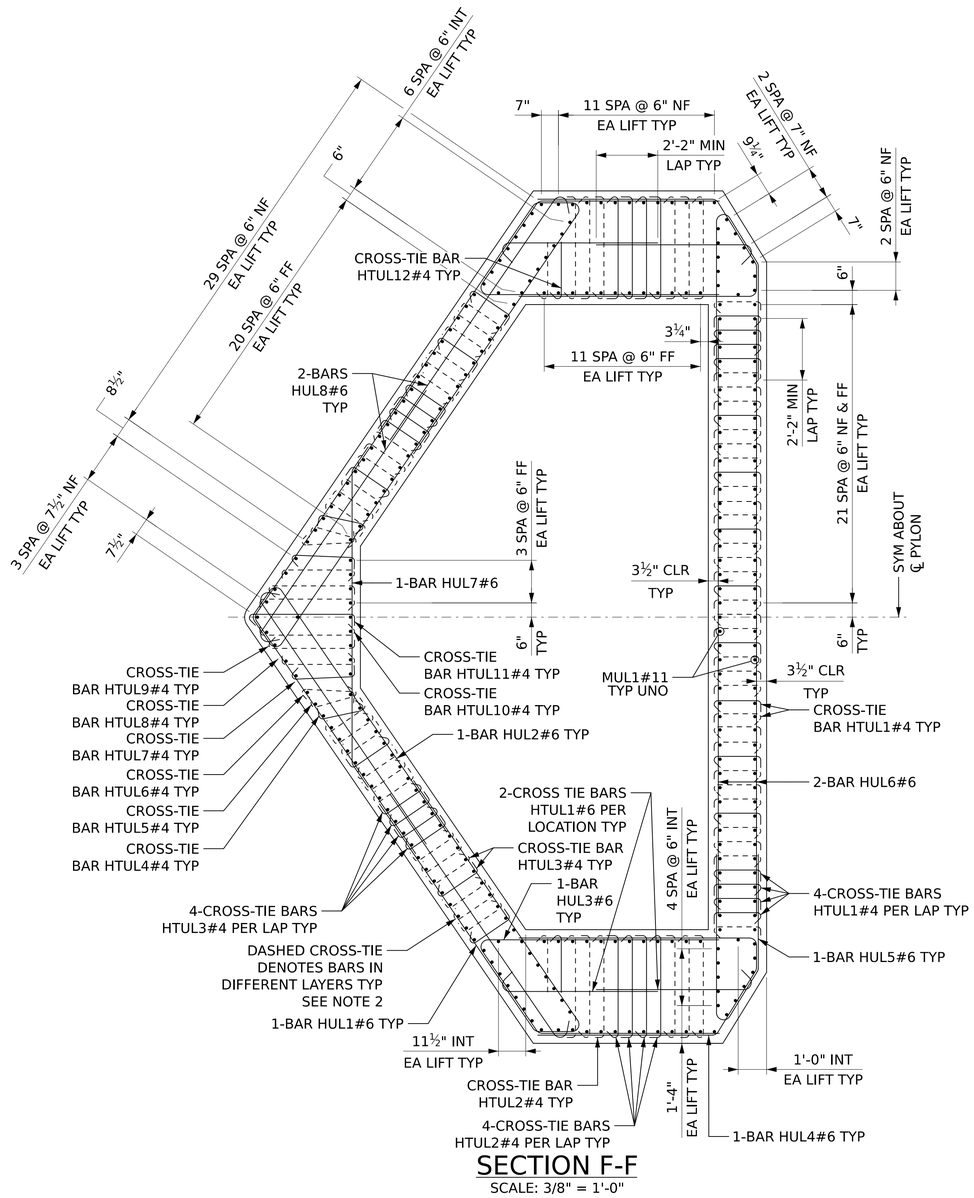
BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6, 4-BARS HUL8#6,
2-BAR HUL5#6, 2-BARS HUL6#6, AND 1-BAR HUL7#6, 4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



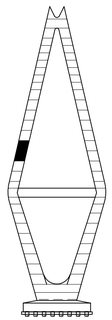
VIEW E-E

SCALE: 1/4" = 1'-0"



SECTION F-F

SCALE: 3/8" = 1'-0"



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 3" SHEET.
2. FOR CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

UPPER LEG REINFORCEMENT 4

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40234.dgn

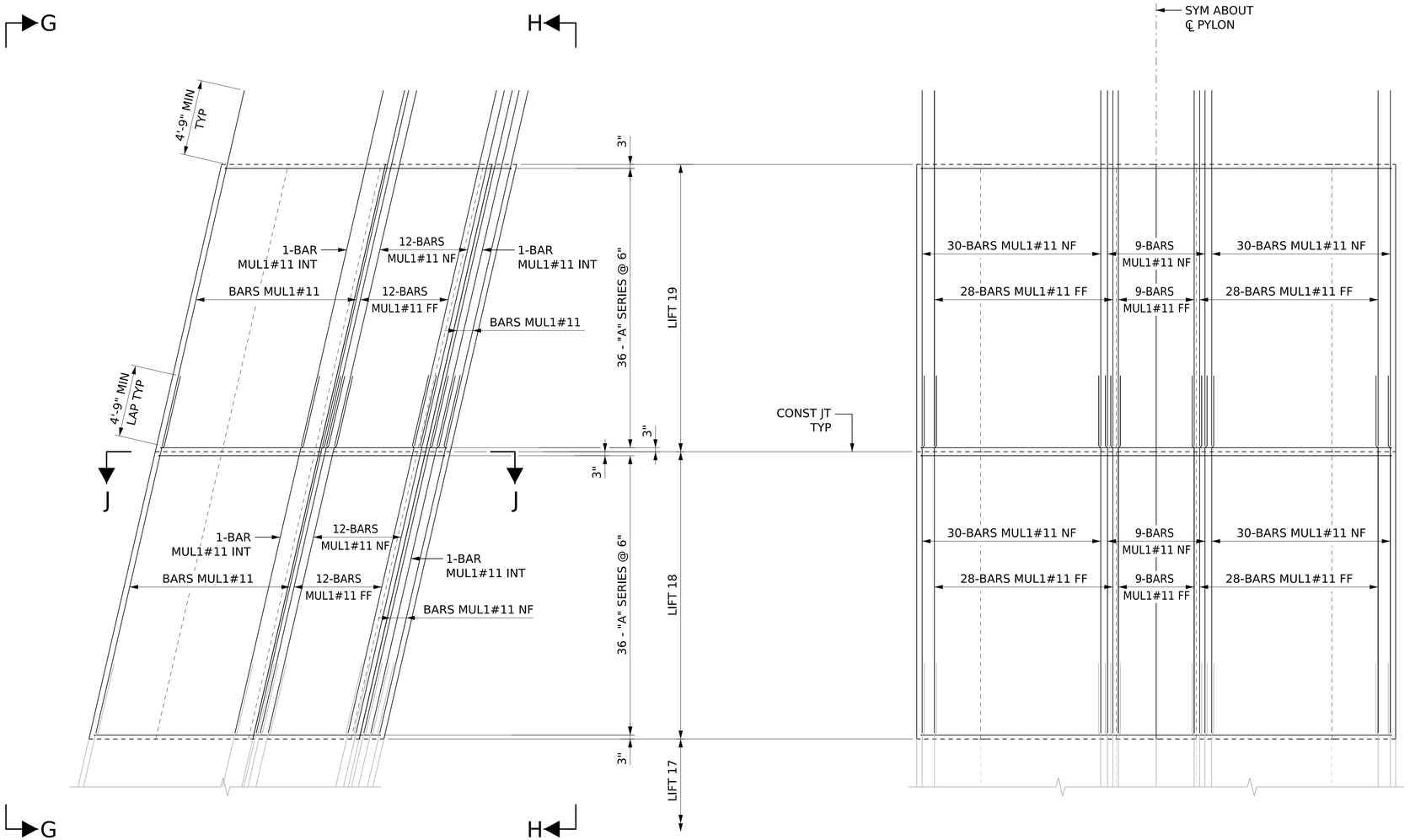
Brad.Shepard

10:37:14 AM

3/14/2025

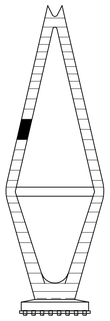
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40235

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW G-G
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW H-H, SECTION J-J AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 6" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

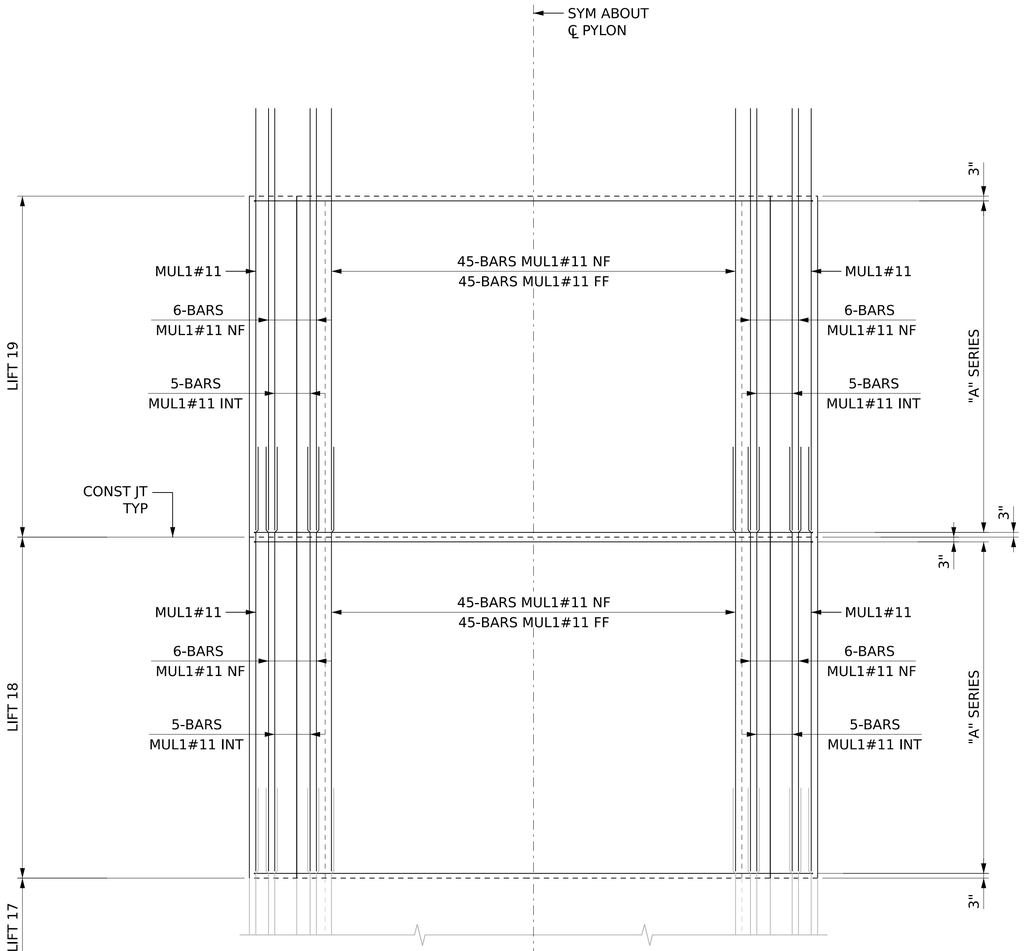
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 5

MRB-S04-BR-40235.dgn
Brad.Shepard
10:37:21 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40236

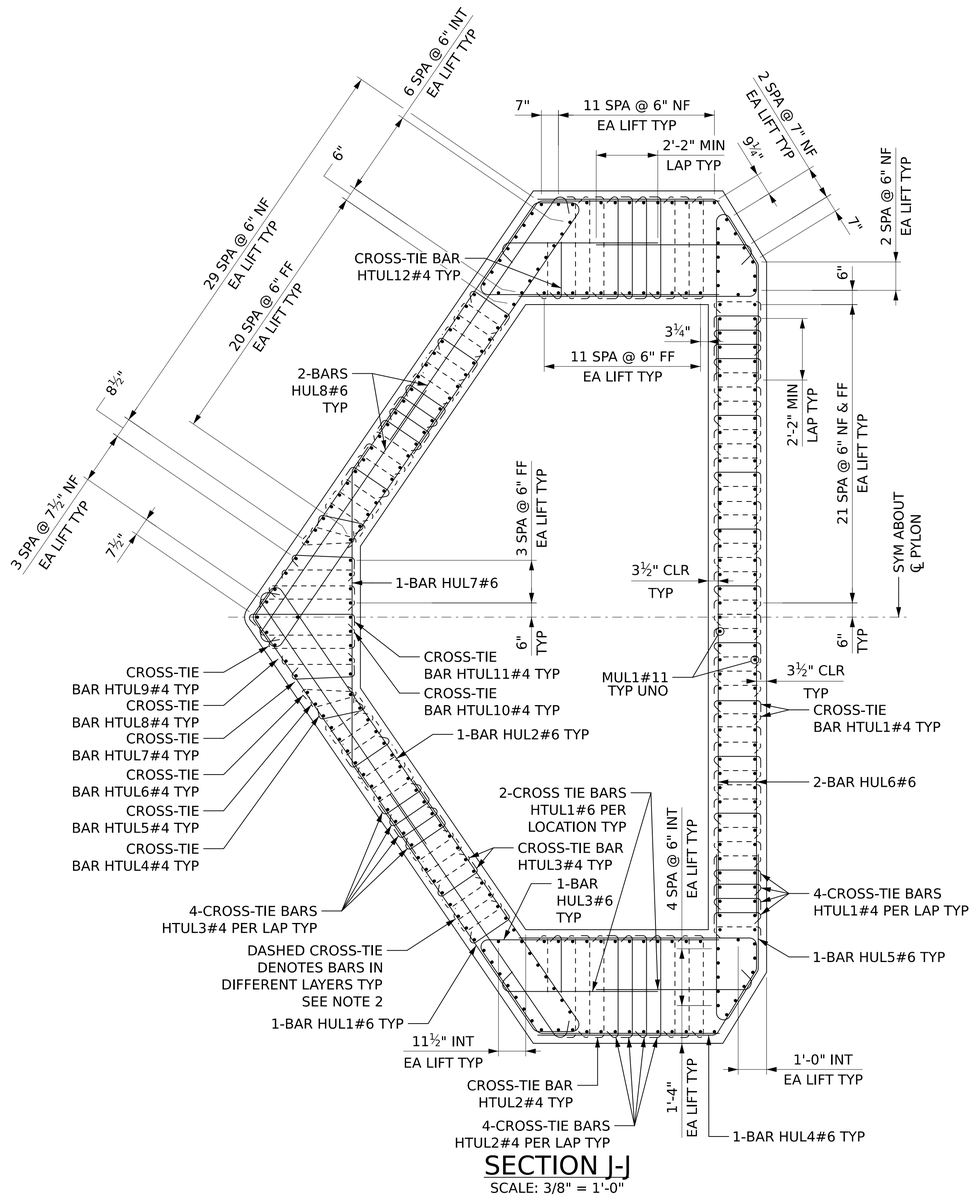
BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6, 2-BAR HUL5#6, 2-BARS HUL6#6, AND 1-BAR HUL7#6, 4-BARS HUL8#6, 4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



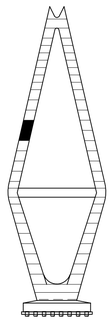
VIEW H-H

SCALE: 1/4" = 1'-0"



SECTION J-J

SCALE: 3/8" = 1'-0"



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 5" SHEET.
2. FOR ADDITIONAL CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

UPPER LEG REINFORCEMENT 6

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40236.dgn

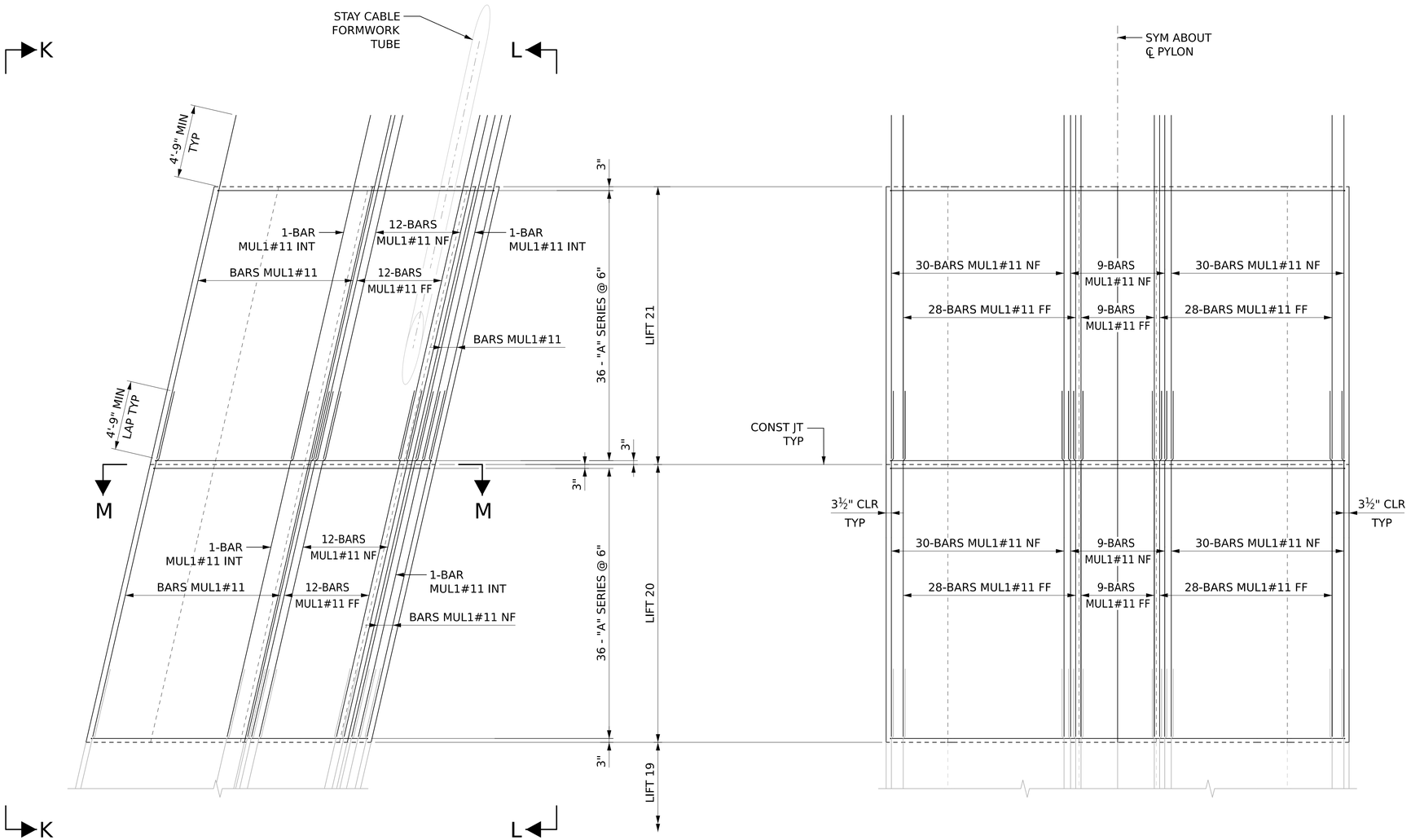
Brad.Shepard

3/14/2025 10:37:28 AM

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40237

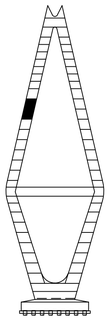
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW K-K
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11

- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW L-L, SECTION M-M AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 8" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

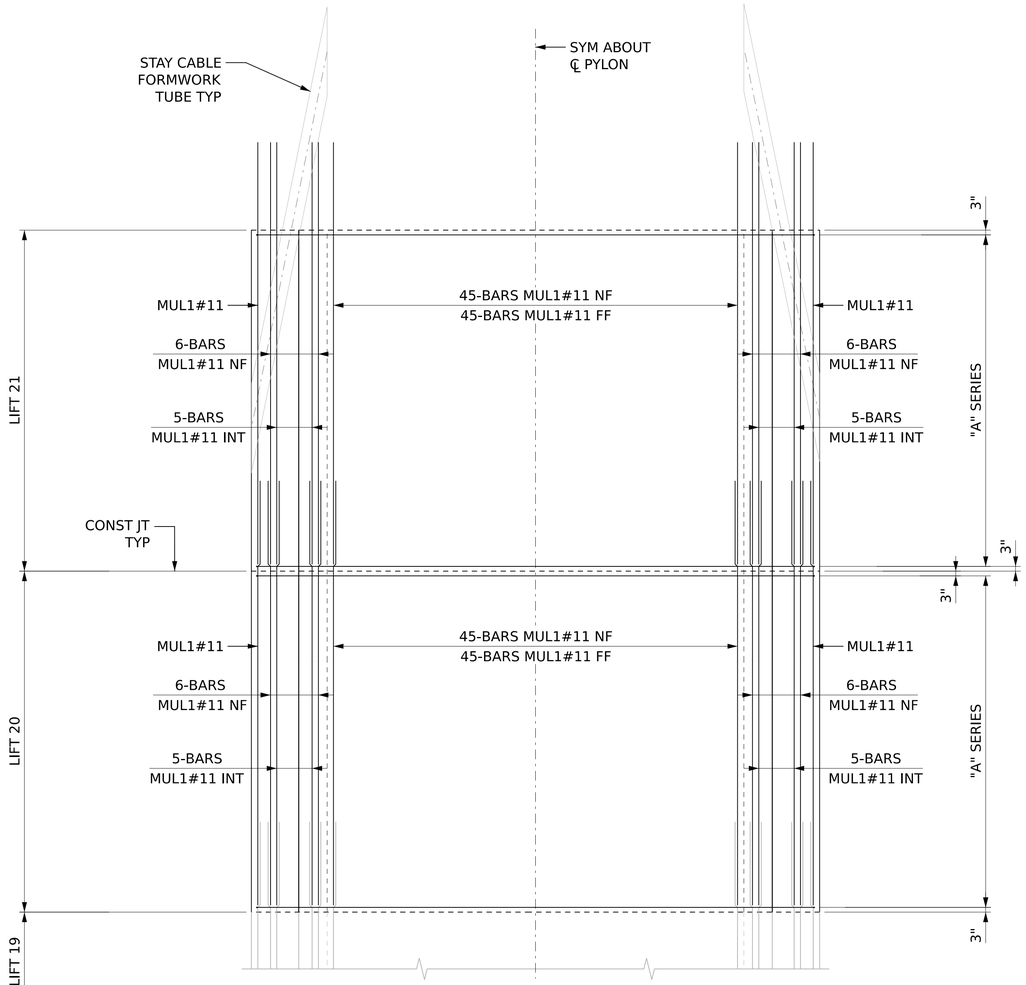
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 7

MRB-S04-BR-40237.dgn
Brad.Shepard
10:37:36 AM
3/14/2025

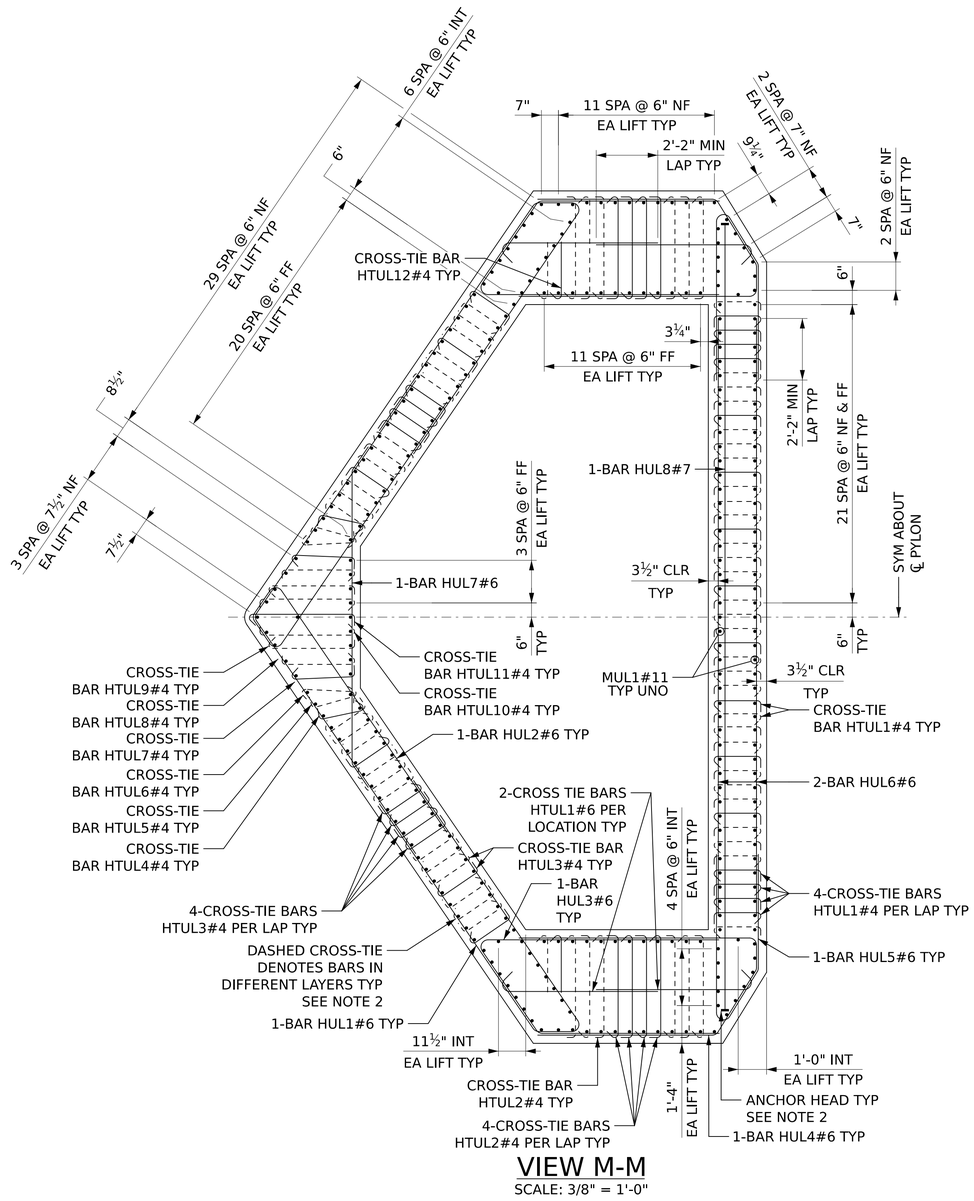
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40238

BAR SERIES LEGEND:

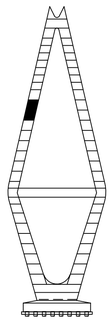
"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6,
2-BAR HUL5#6, 2-BARS HUL6#6, 1-BAR HUL7#6, 1-BAR HUL8#7 (ONLY LIFT 21),
4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



VIEW L-L
SCALE: 1/4" = 1'-0"



VIEW M-M
SCALE: 3/8" = 1'-0"



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 7" SHEET.
2. FOR ADDITIONAL CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE
Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%
BIN(S)
COUNTY(S)
MOBILE
DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 8

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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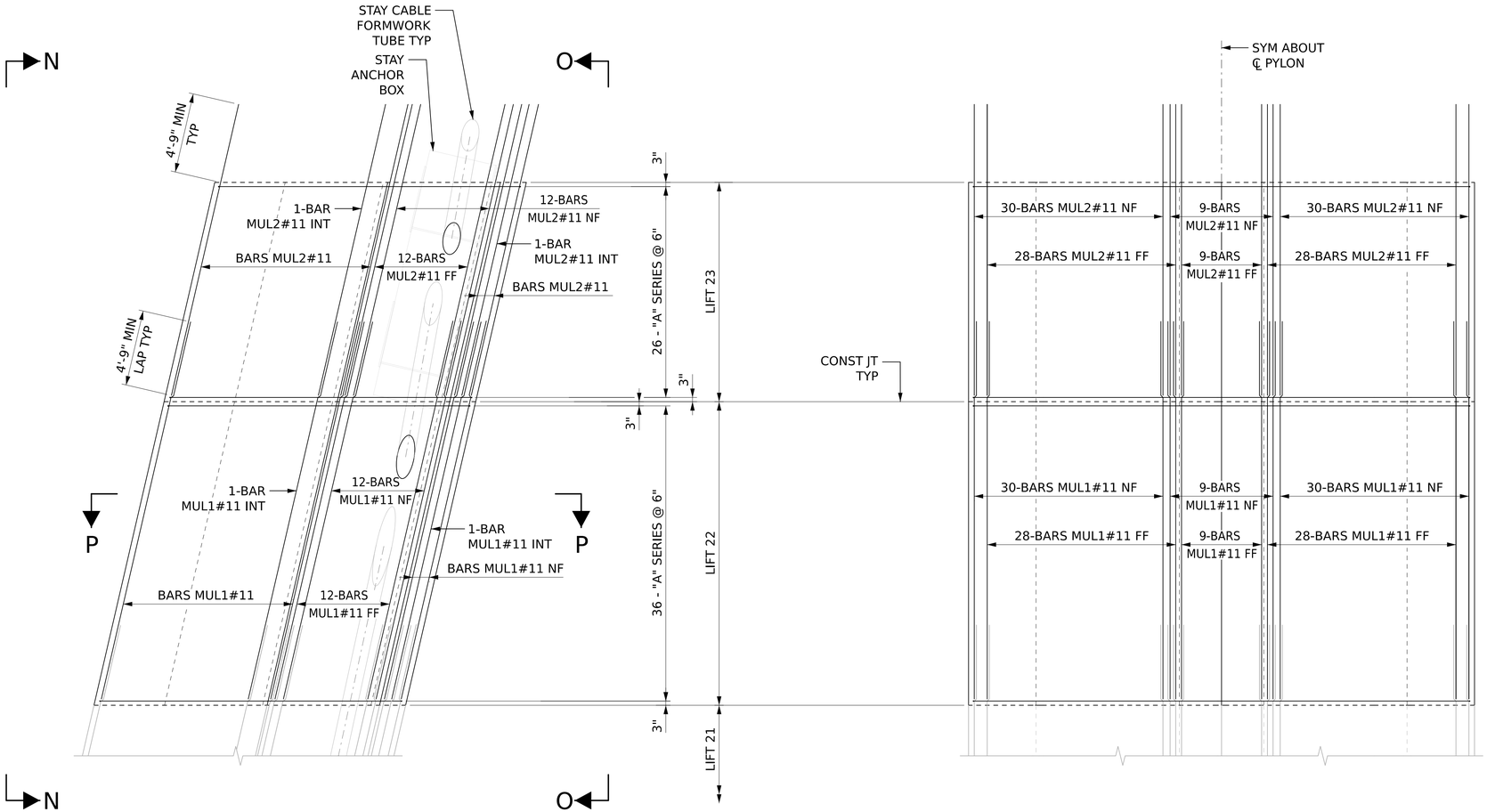
Brad.Shepard
10:44:27 AM
3/14/2025

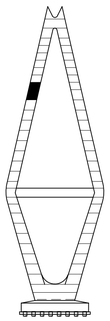
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40239

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW N-N
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11

- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW O-O, SECTION P-P AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 10" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

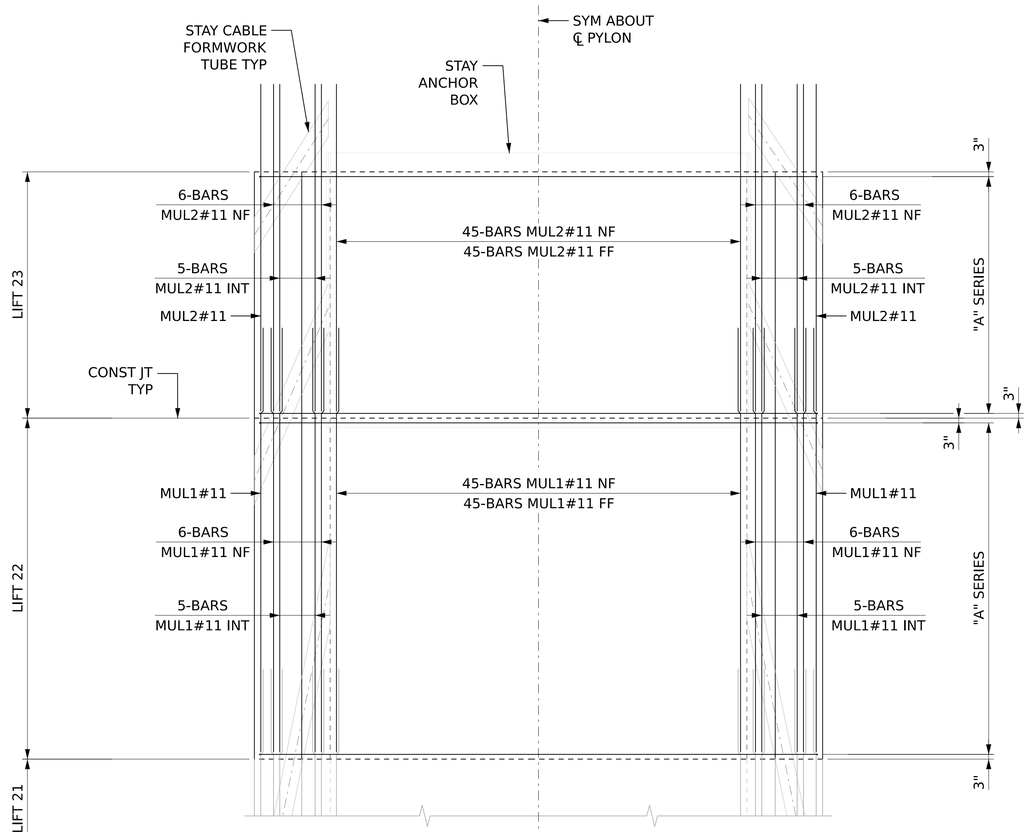
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 9

MRB-S04-BR-40239.dgn
Brad.Shepard
10:37:48 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40240

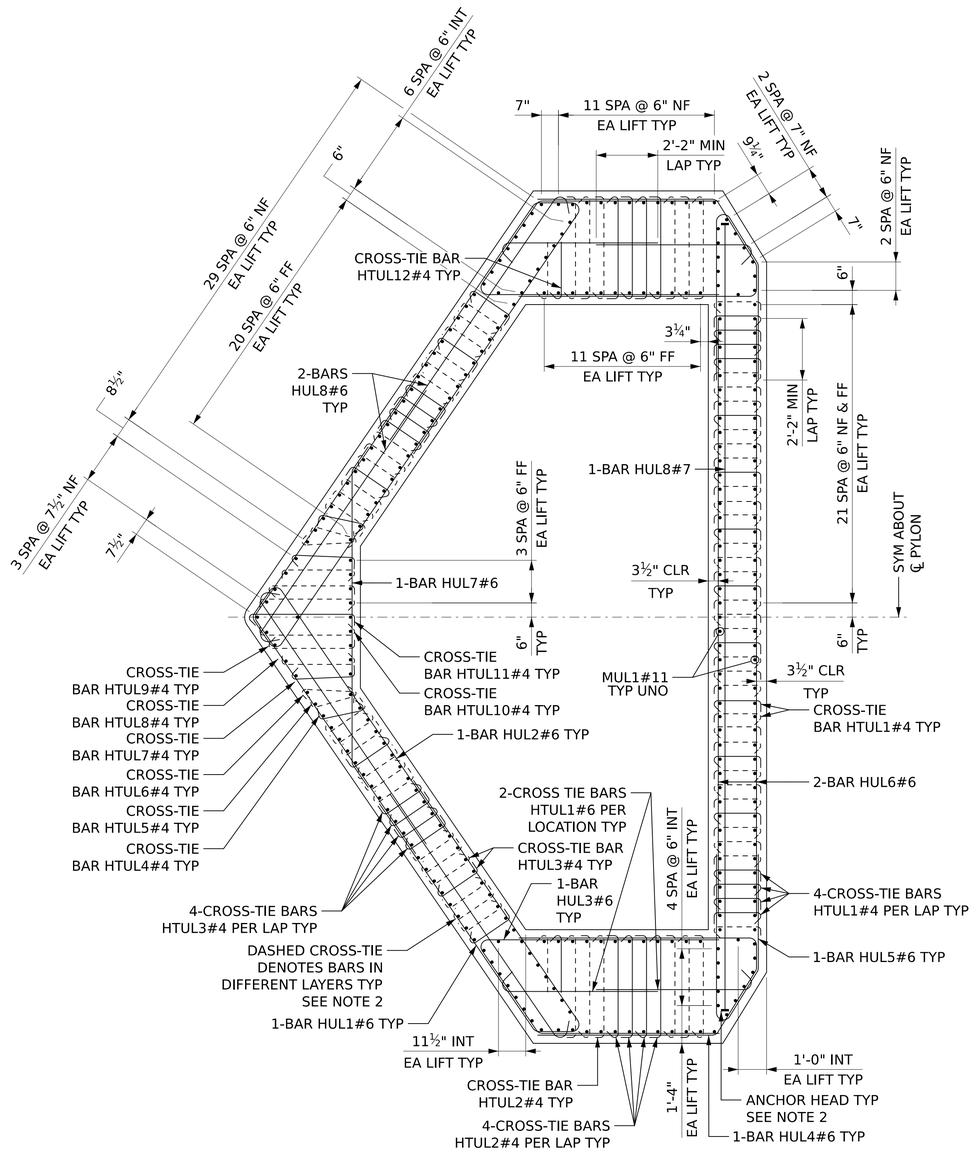
BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6,
2-BAR HUL5#6, 2-BARS HUL6#6, 1-BAR HUL7#6, AND 1-BAR HUL8#7,
4-BARS HUL8#6, 4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



VIEW O-O

SCALE: 1/4" = 1'-0"



VIEW P-P

SCALE: 3/8" = 1'-0"

STAY ANCHOR BOX SHEAR STUDS NOT SHOWN FOR CLARITY

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 9" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR REINFORCEMENT DETAILS AT STAY FORMWORK TUBE OPENINGS, SEE "PYLON P29 & P30 UPPER LEG MISCELLANEOUS DETAIL" SHEETS.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

UPPER LEG REINFORCEMENT 10

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40240.dgn

Brad.Shepard

1:58:45 PM

3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40241

PRELIMINARY
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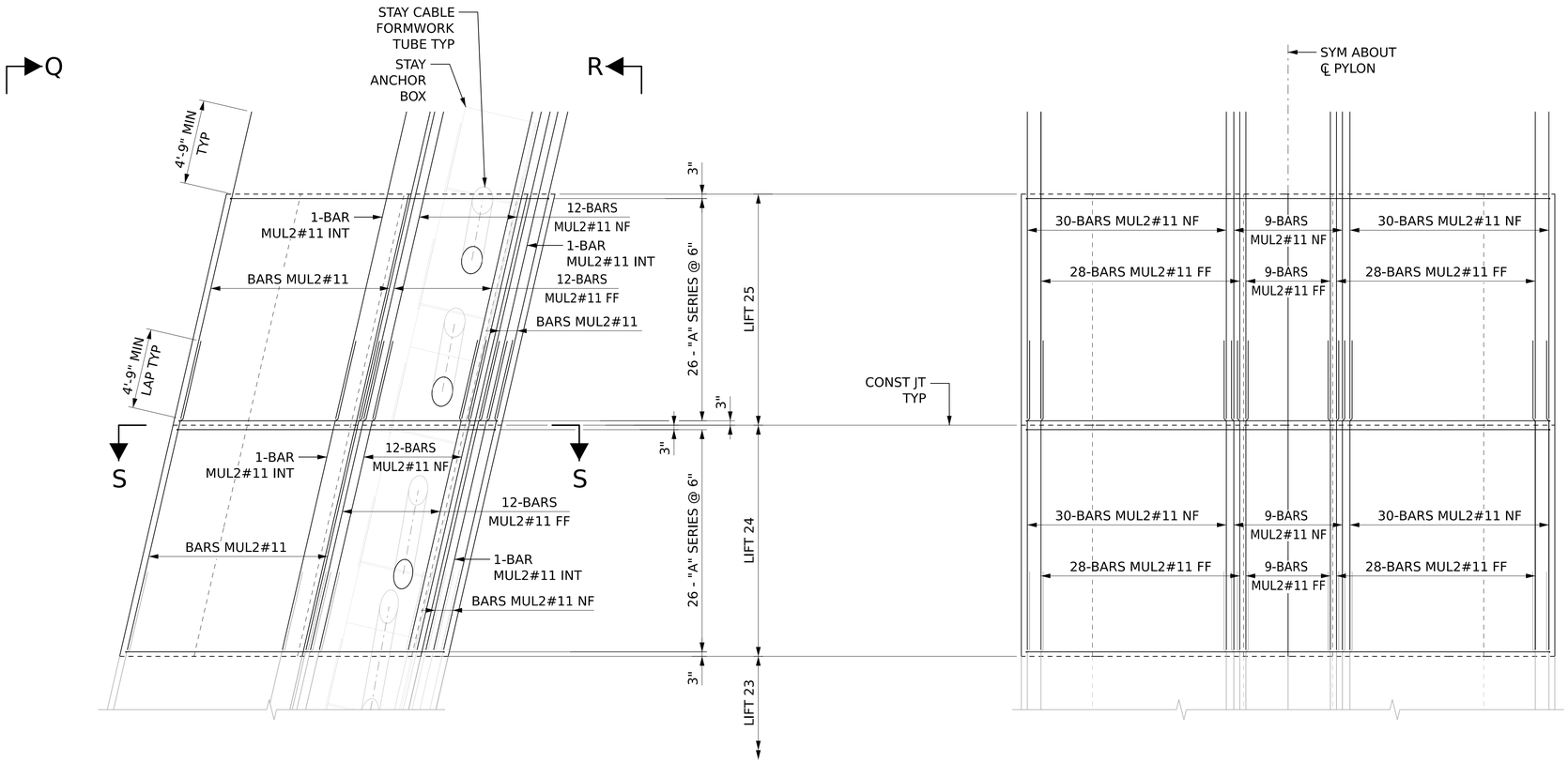
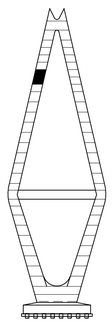




Q

ELEVATION
SCALE: 1/4" = 1'-0"

R

VIEW Q-Q
SCALE: 1/4" = 1'-0"

BAR MARK LEGEND:
MUL1#11
BAR DESIGNATION — AREA OF PYLON — BAR SIZE — BAR NUMBER
PB = PYLON BASE
LL = LOWER LEG
MP = MIDDLE PYLON & CROSS BEAM
UL = UPPER LEG
PH = PYLON HEAD

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW R-R, SECTION S-S AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 12" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

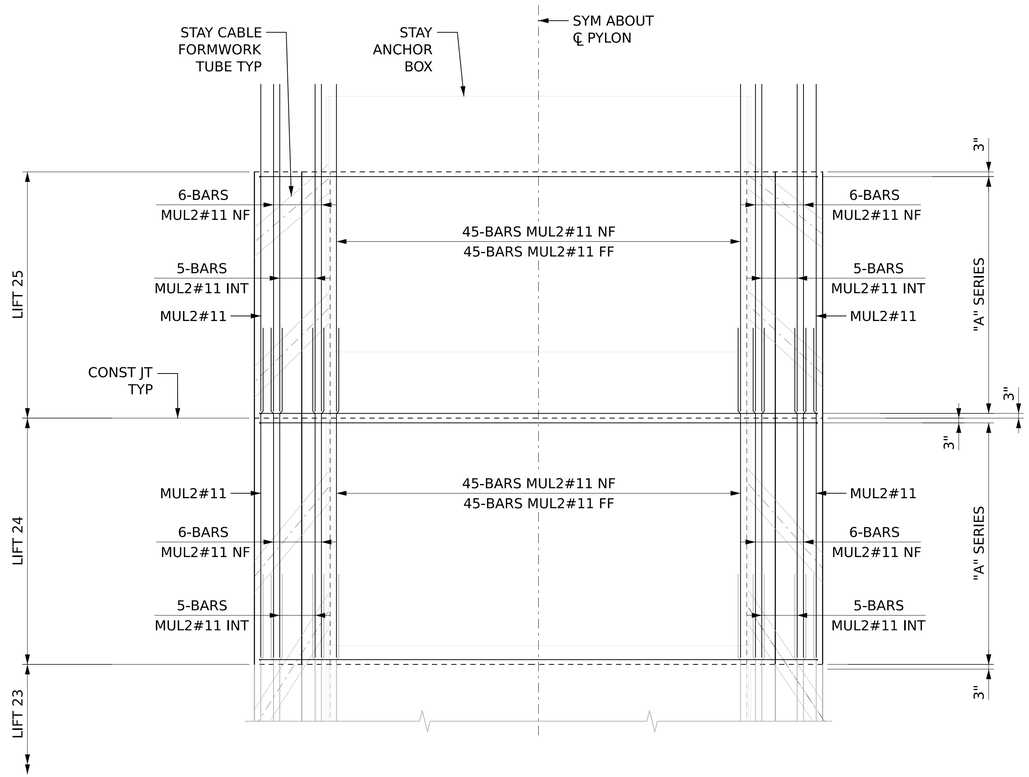
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 11

MRB-S04-BR-40241.dgn
Brad.Shepard
10:38:12 AM
3/14/2025

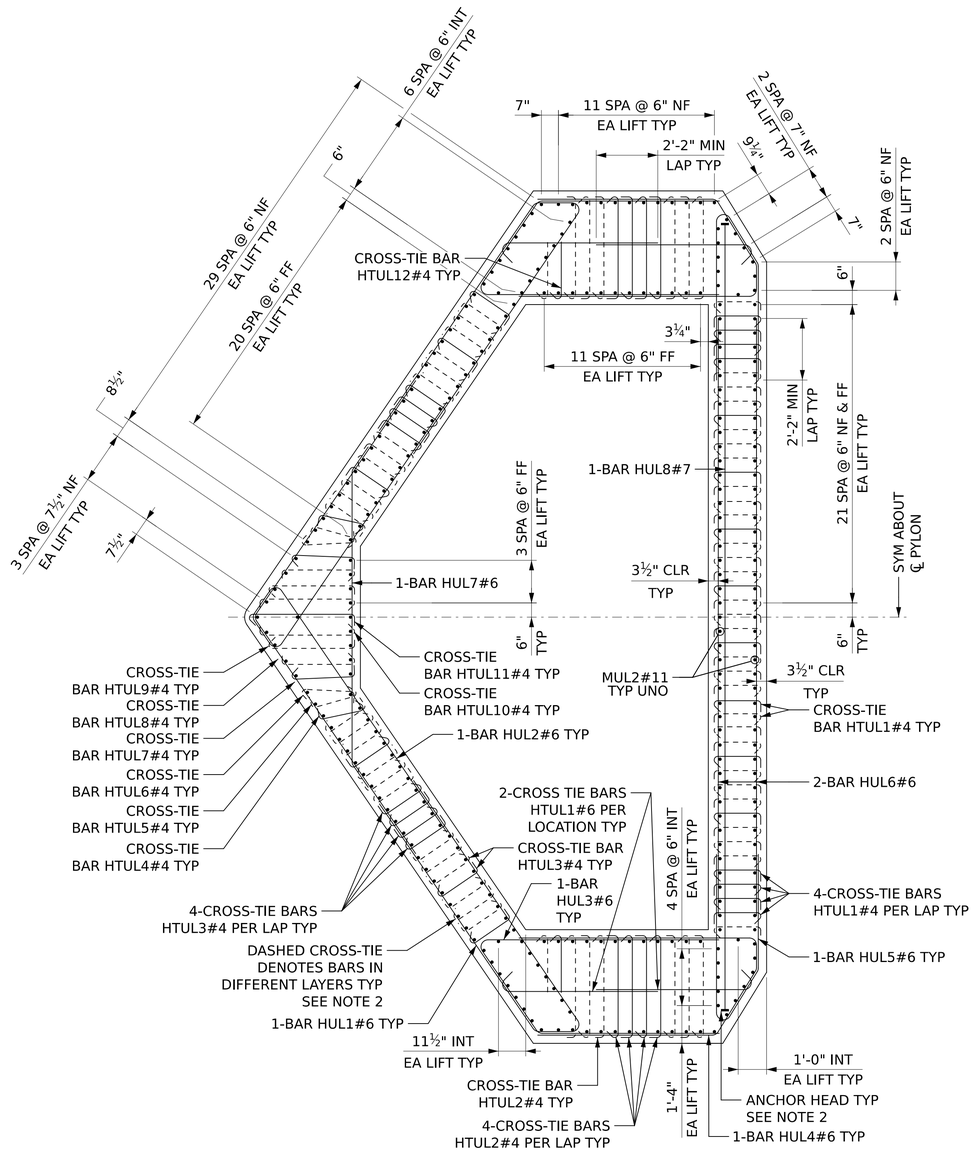
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40242

BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6,
2-BAR HUL5#6, 2-BARS HUL6#6, 1-BAR HUL7#6, AND 1-BAR HUL8#7,
4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



VIEW R-R
SCALE: 1/4" = 1'-0"



VIEW S-S
SCALE: 3/8" = 1'-0"
STAY ANCHOR BOX SHEAR STUDS NOT SHOWN FOR CLARITY

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 11" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR REINFORCEMENT DETAILS AT STAY FORMWORK TUBE OPENINGS, SEE "PYLON P29 & P30 UPPER LEG MISCELLANEOUS DETAIL" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

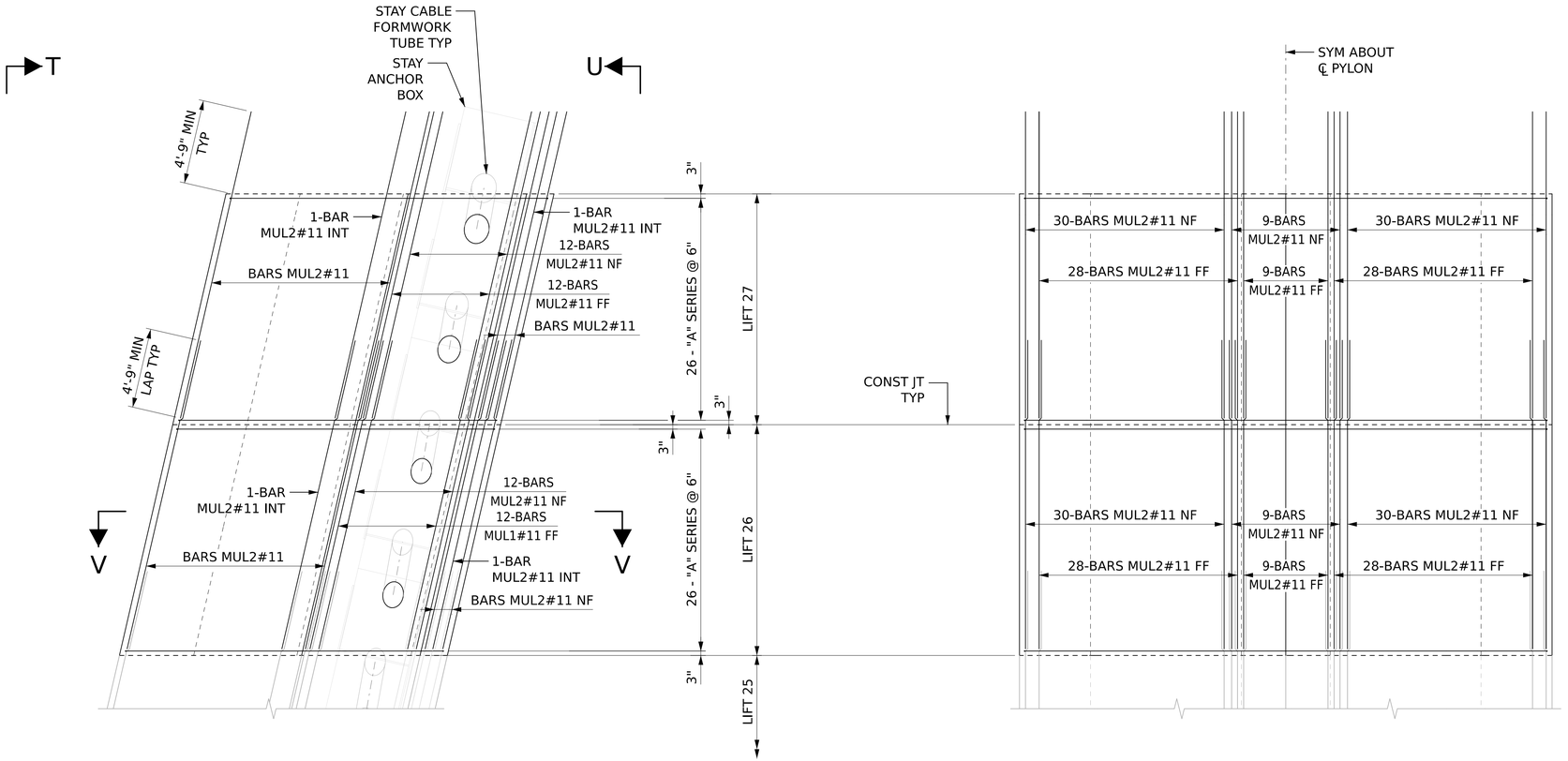
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 12

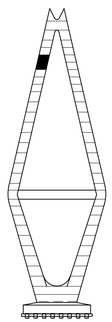
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40242.dgn
Brad.Shepard
10:38:18 AM
3/14/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40243





T

ELEVATION

SCALE: 1/4" = 1'-0"

U

VIEW T-T

SCALE: 1/4" = 1'-0"

BAR MARK LEGEND:
MUL1#11

- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW U-U, SECTION V-V AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 14" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 13

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

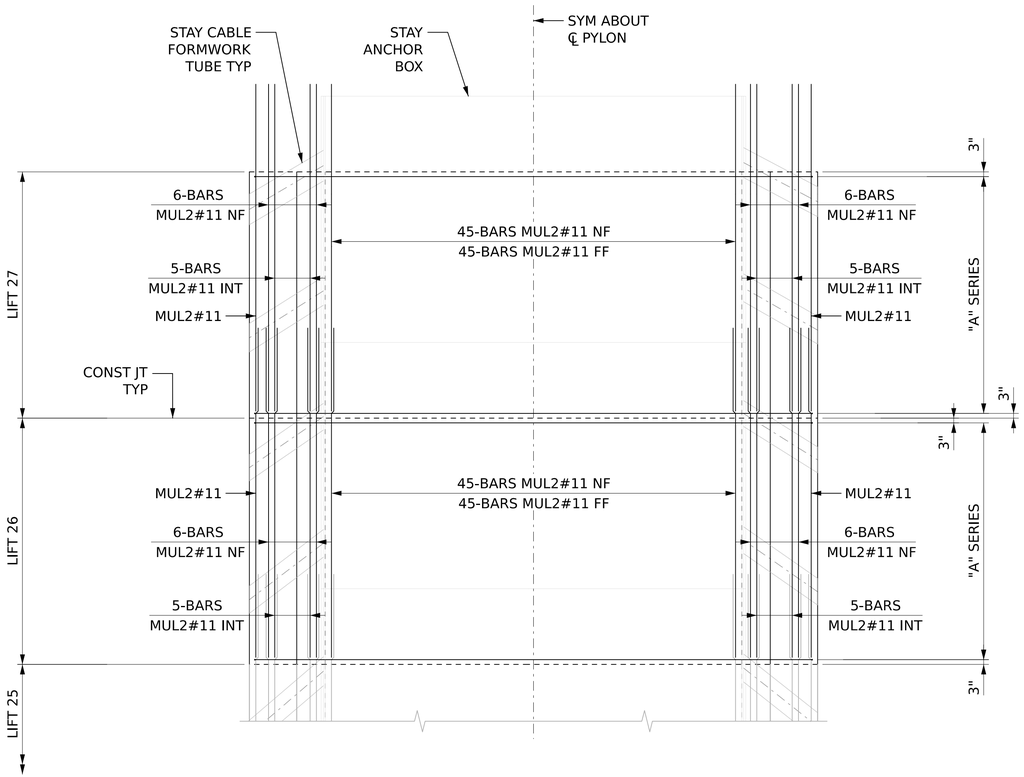
MRB-S04-BR-40243.dgn
Brad.Shepard
10:38:25 AM
3/14/2025

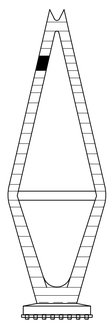
SHEET REFERENCE
0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40244

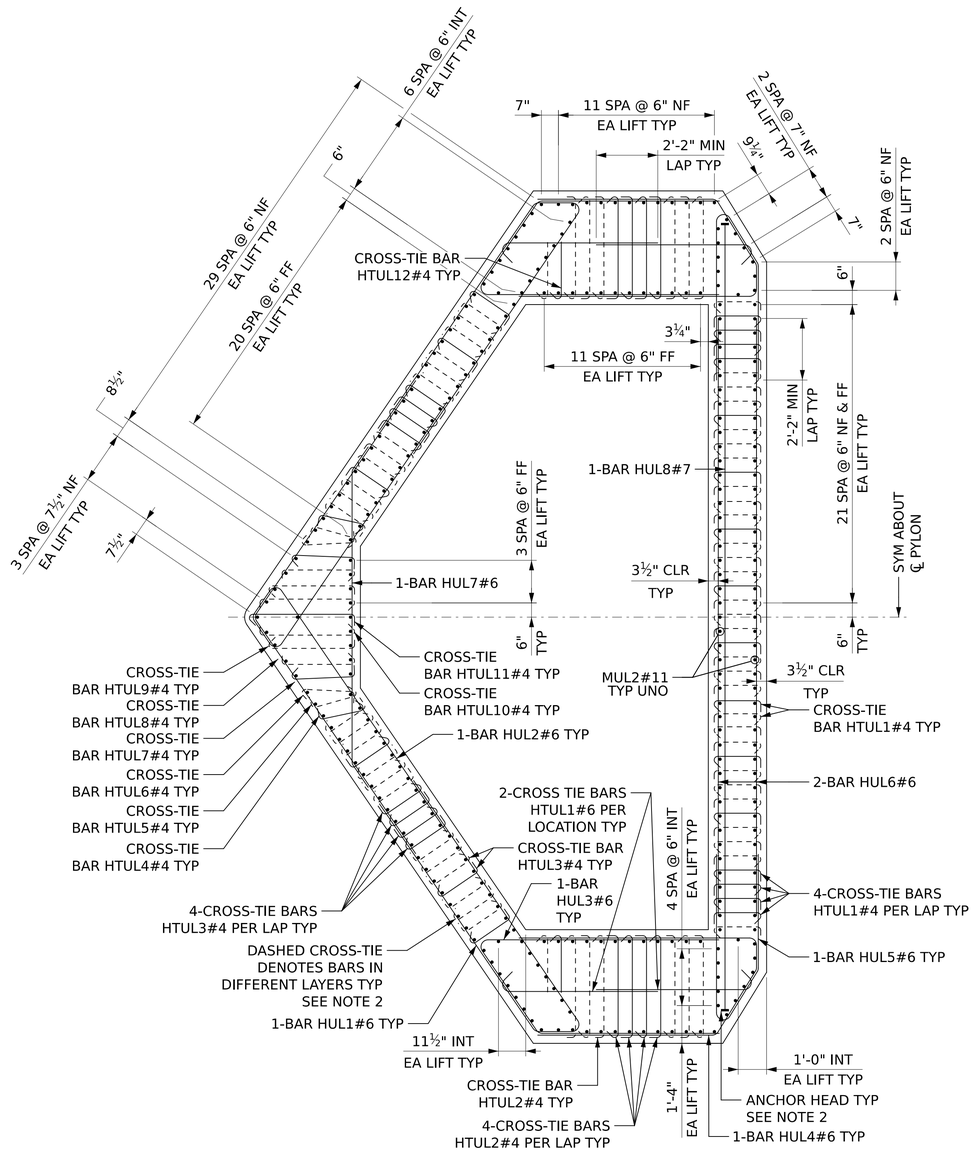
BAR SERIES LEGEND:

"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6,
2-BAR HUL5#6, 2-BARS HUL6#6, 1-BAR HUL7#6, AND 1-BAR HUL8#7,
4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4





VIEW U-U
SCALE: 1/4" = 1'-0"



VIEW V-V
SCALE: 3/8" = 1'-0"
STAY ANCHOR BOX SHEAR STUDS NOT SHOWN FOR CLARITY

NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 13" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR REINFORCEMENT DETAILS AT STAY FORMWORK TUBE OPENINGS, SEE "PYLON P29 & P30 UPPER LEG MISCELLANEOUS DETAIL" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

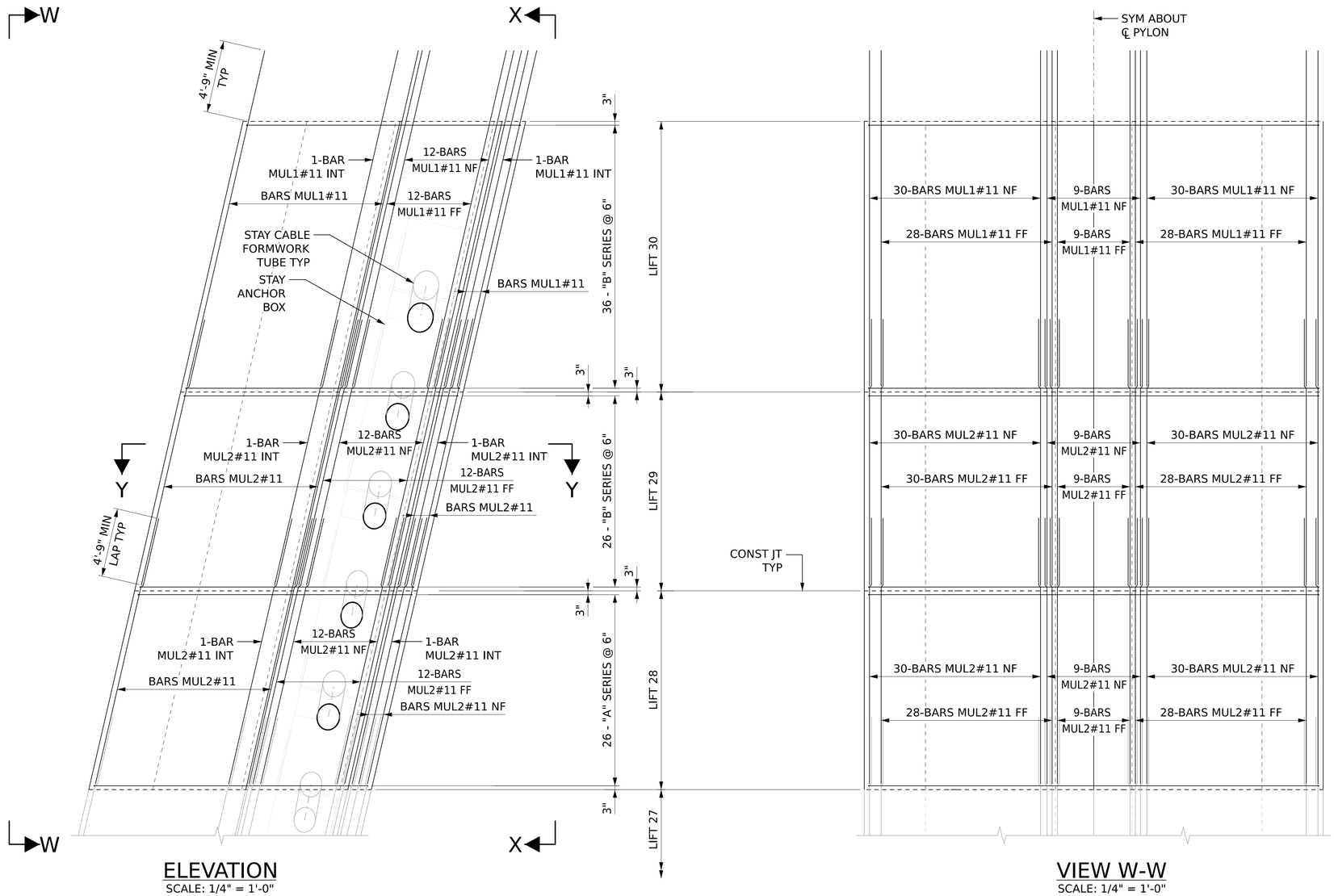
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 14

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40244.dgn
Brad.Shepard
10:38:30 AM
3/14/2025

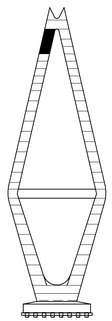
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40245

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



ELEVATION
SCALE: 1/4" = 1'-0"

VIEW W-W
SCALE: 1/4" = 1'-0"



BAR MARK LEGEND:
MUL1#11
- BAR DESIGNATION
- AREA OF PYLON
  - PB = PYLON BASE
  - LL = LOWER LEG
  - MP = MIDDLE PYLON & CROSS BEAM
  - UL = UPPER LEG
  - PH = PYLON HEAD
- BAR SIZE
- BAR NUMBER

NOTES:

1. FOR LIFT AND CONSTRUCTION JOINT INFORMATION, SEE "LIFT CONSTRUCTION JOINT LAYOUT" SHEET.
2. NORTH PYLON LEG IS SHOWN. SOUTH PYLON LEG IS SIMILAR, OPPOSITE HAND.
3. FOR VIEW X-X, SECTION Y-Y AND BAR SERIES LEGEND, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 16" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE
Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%
BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG REINFORCEMENT 15

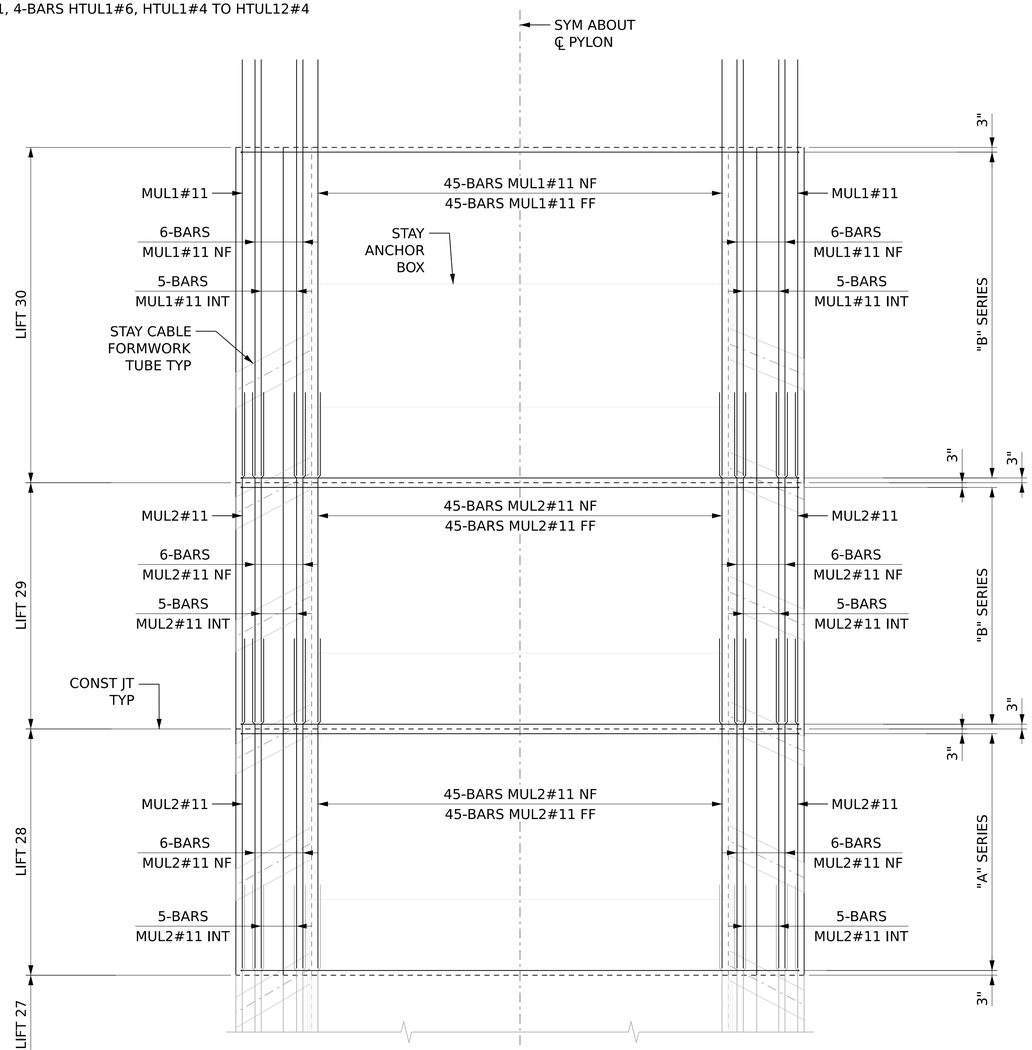
MRB-S04-BR-40245.dgn
Brad.Shepard
10:38:37 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40246

BAR SERIES LEGEND:

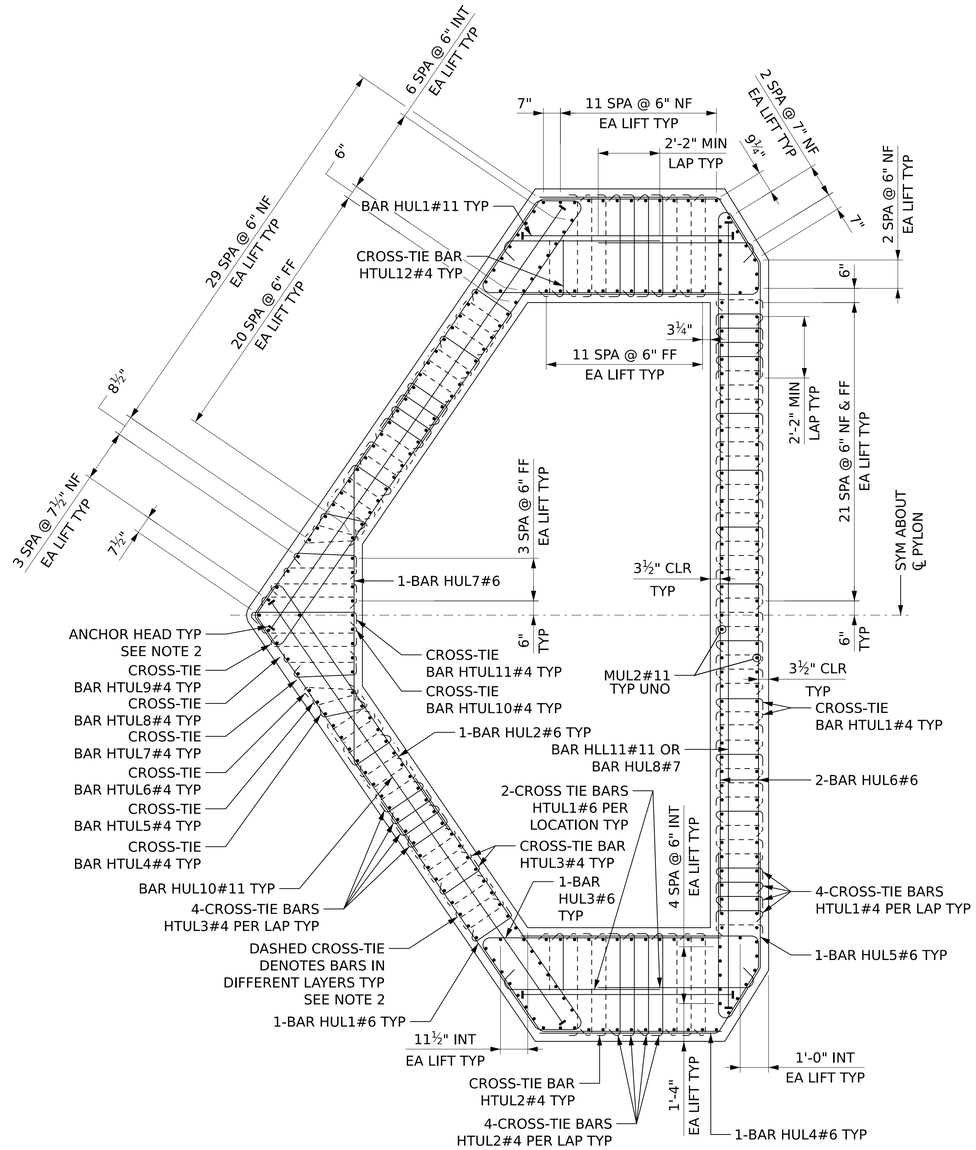
"A" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6, 2-BAR HUL5#6, 2-BARS HUL6#6, AND 1-BAR HUL7#6, 4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4, 1-BAR HTUL8#7

"B" SERIES: 2-BAR HUL1#6, 2-BAR HUL2#6, 2-BAR HUL3#6, 2-BAR HUL4#6, 2-BAR HUL5#6, 2-BARS HUL6#6, 1-BAR HUL7#6, 2-BARS HUL9#11, 2-BAR HUL10#11, 1-BAR HUL11#11, 4-BARS HTUL1#6, HTUL1#4 TO HTUL12#4



VIEW X-X

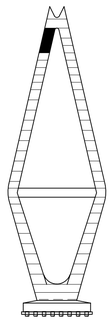
SCALE: 1/4" = 1'-0"



SECTION Y-Y

SCALE: 3/8" = 1'-0"

STAY ANCHOR BOX SHEAR STUDS NOT SHOWN FOR CLARITY



NOTES:

1. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 UPPER LEG REINFORCEMENT 15" SHEET.
2. FOR ADDITIONAL ANCHOR HEAD AND CROSS-TIE INFORMATION, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.
3. FOR REINFORCEMENT DETAILS AT STAY FORMWORK TUBE OPENINGS, SEE "PYLON P29 & P30 UPPER LEG MISCELLANEOUS DETAIL" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

UPPER LEG REINFORCEMENT 16

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40246.dgn

Brad.Shepard

10:38:43 AM

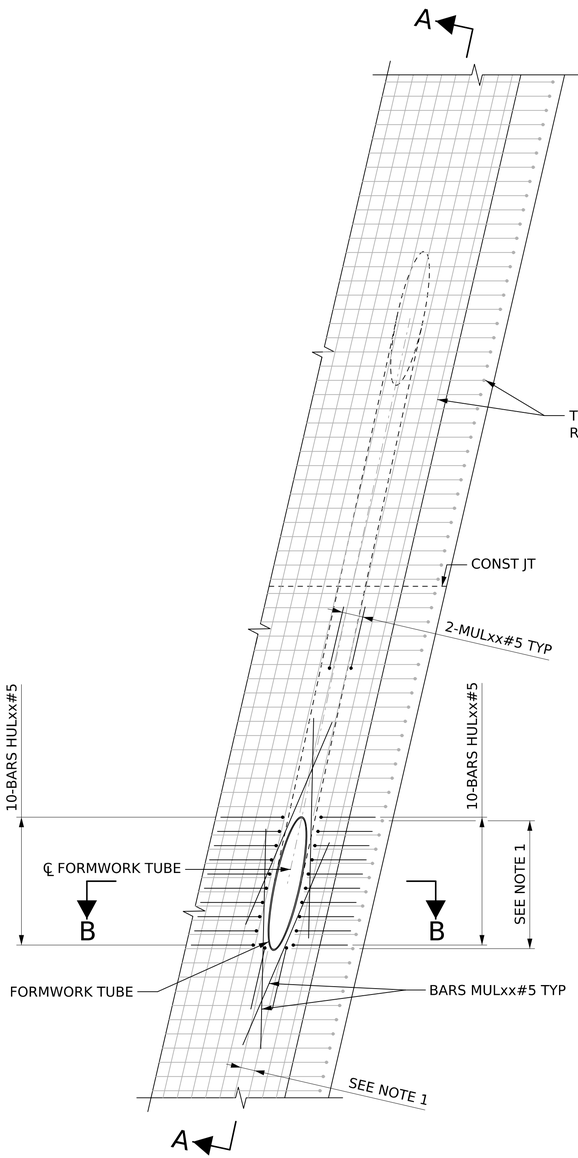
3/14/2025

2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40247

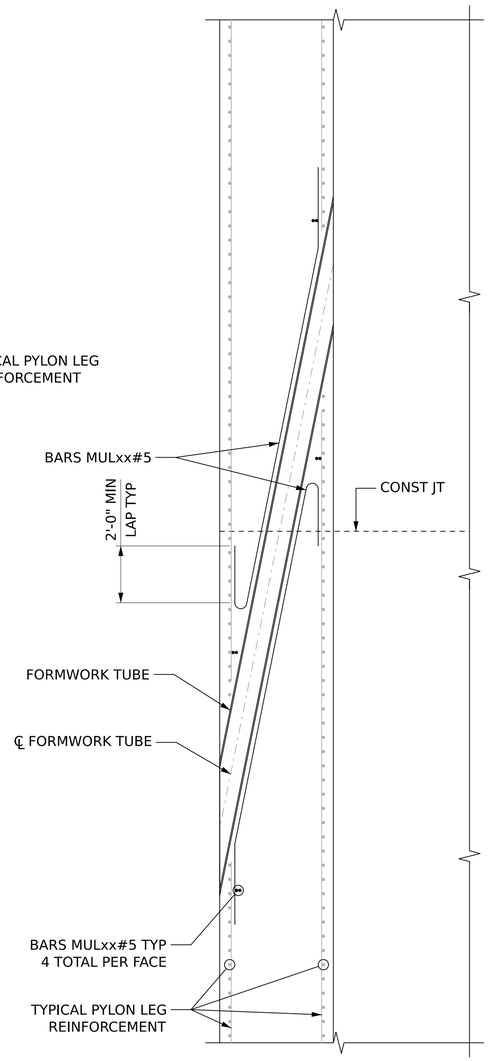
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2" 1" SHEET REFERENCE 0



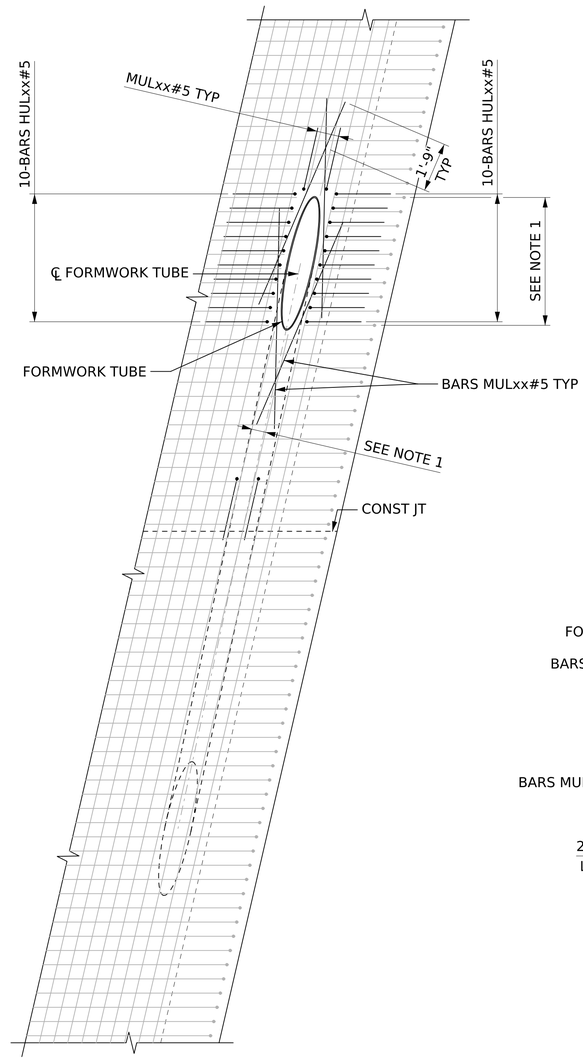
ELEVATION - EXTERNAL FACE

SCALE: 3/8" = 1'-0"



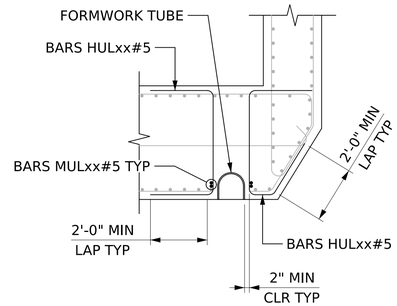
SECTION A-A

SCALE: 3/8" = 1'-0"



ELEVATION - INTERNAL FACE

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

NOTES:

1. END BARS 2" FROM FORMWORK TUBE TO PROVIDE MINIMUM CLEARANCE.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

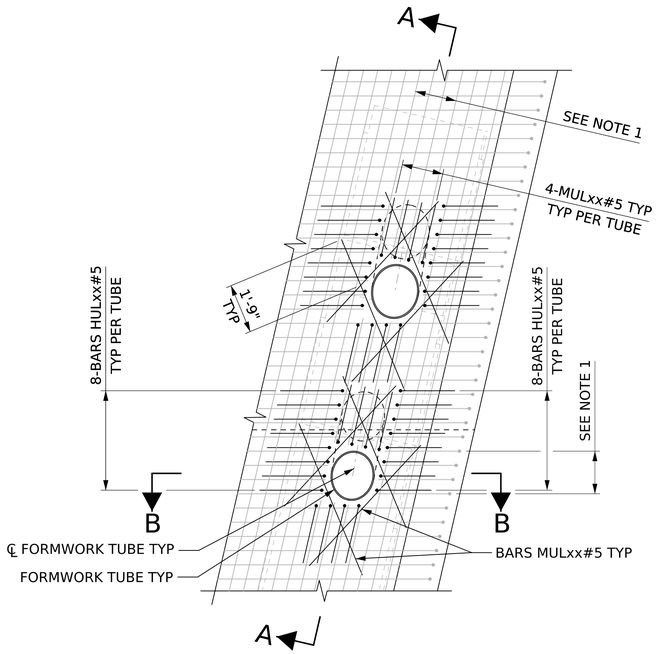
PLAN SUBMITTAL	BIN(S)	DESIGNER: M. AYDEMIR DATE: 04/04/2025
60%	COUNTY(S) MOBILE	BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG MISCELLANEOUS DETAILS 1

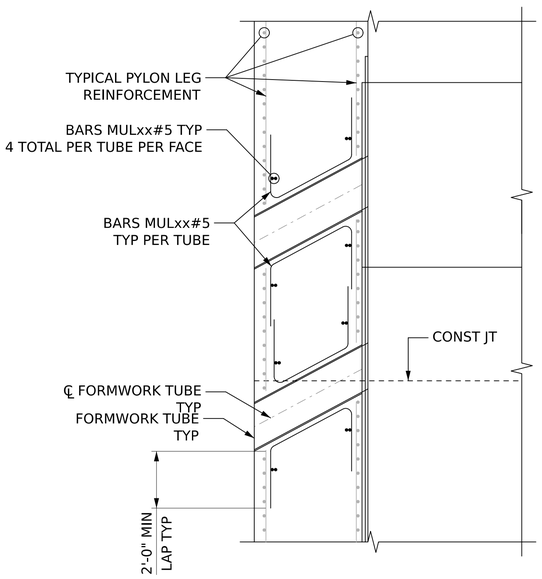
MRB-S04-BR-40247.dgn
Brad.Shepard
5:44:33 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40248

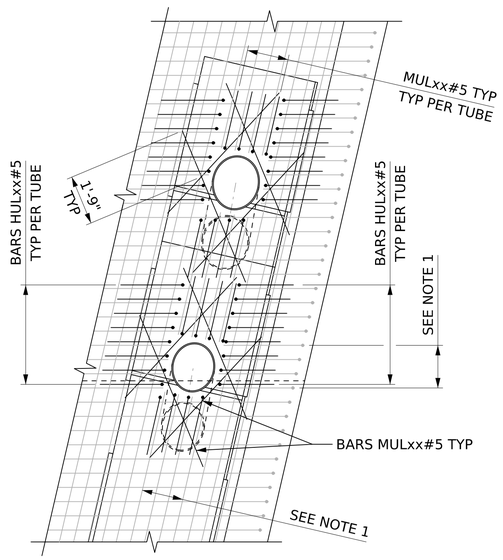
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



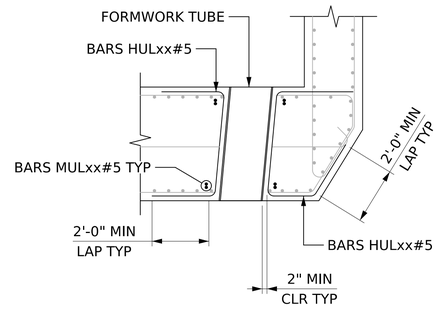
ELEVATION - EXTERNAL FACE
SCALE: 3/8" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"



ELEVATION - INTERNAL FACE
SCALE: 3/8" = 1'-0"



SECTION B-B
SCALE: 3/8" = 1'-0"

NOTES:

1. END BARS 2" FROM FORMWORK TUBE TO PROVIDE MINIMUM CLEARANCE.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL	BIN(S)
60%	COUNTY(S): MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
UPPER LEG MISCELLANEOUS DETAILS 2

MRB-S04-BR-40248.dgn
Brad.Shepard
10:03:33 AM
3/27/2025

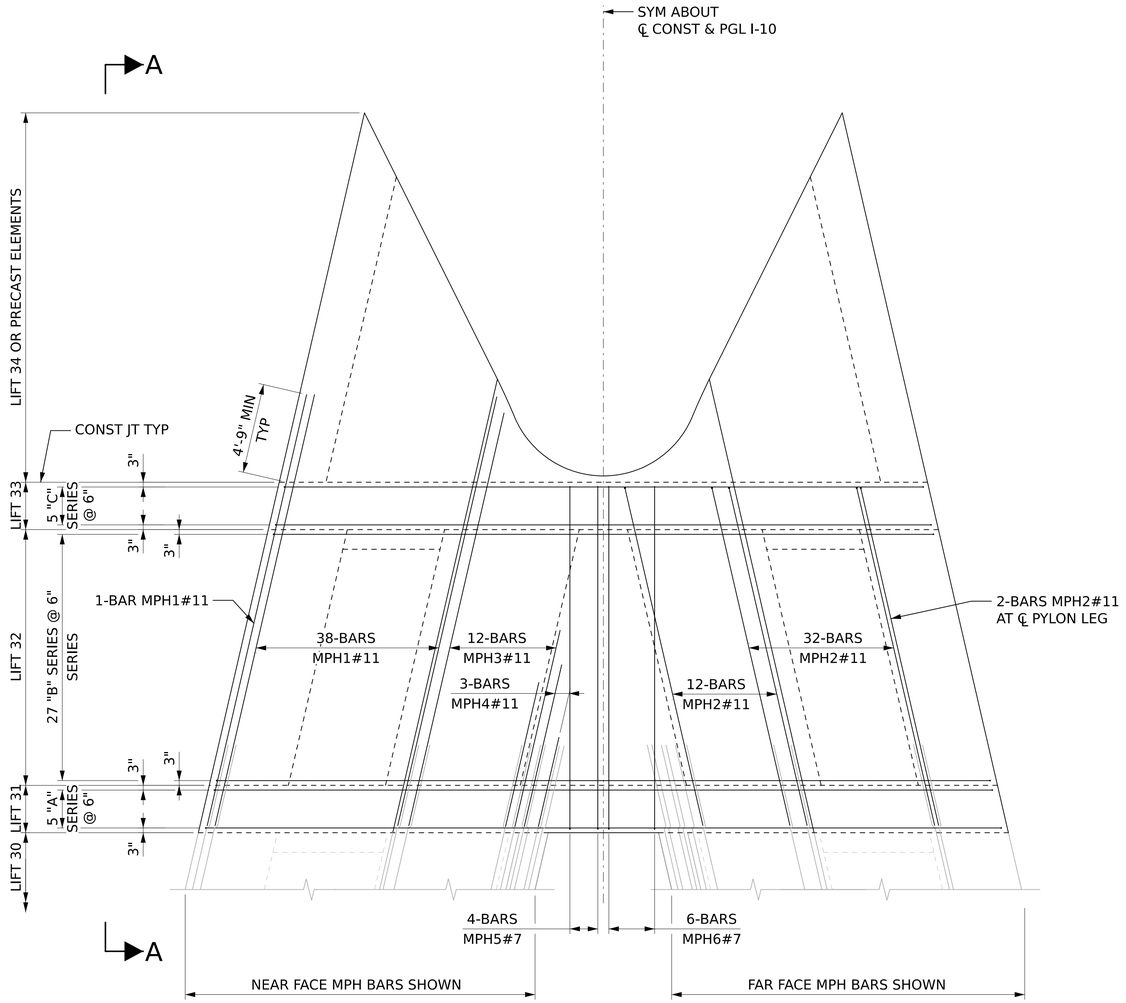
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40251

BAR SERIES:

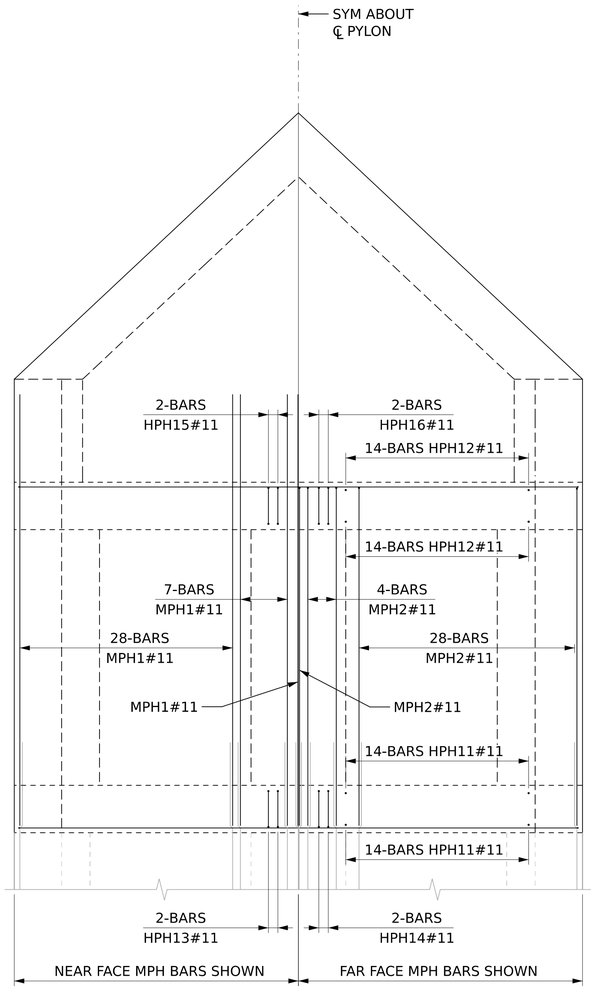
"A" SERIES:

"B" SERIES: 4-BAR HPH1#6, 4-BAR HPH2#6, 4-BAR HPH3#6,
4-BAR HPH6#6, 2-BAR HPH7#6, 2-BAR HPH8#6,
2-BAR HPH9#6, 8-BAR HPH10#6, 8-BAR HPH40#11

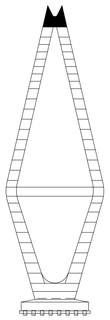
"C" SERIES:



ELEVATION
SCALE: 1/4" = 1'-0"



VIEW A-A
SCALE: 1/4" = 1'-0"



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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

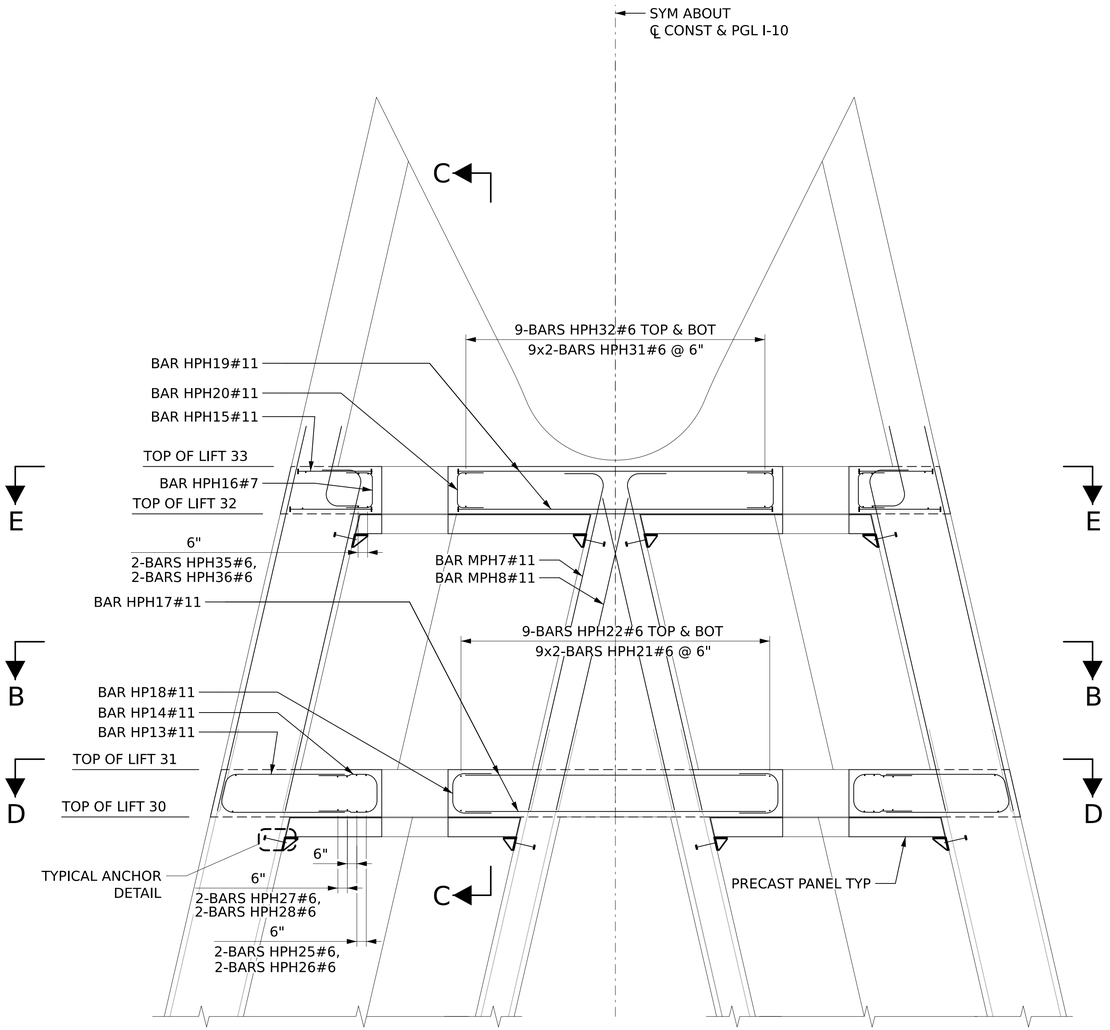
SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON HEAD REINFORCEMENT 1

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

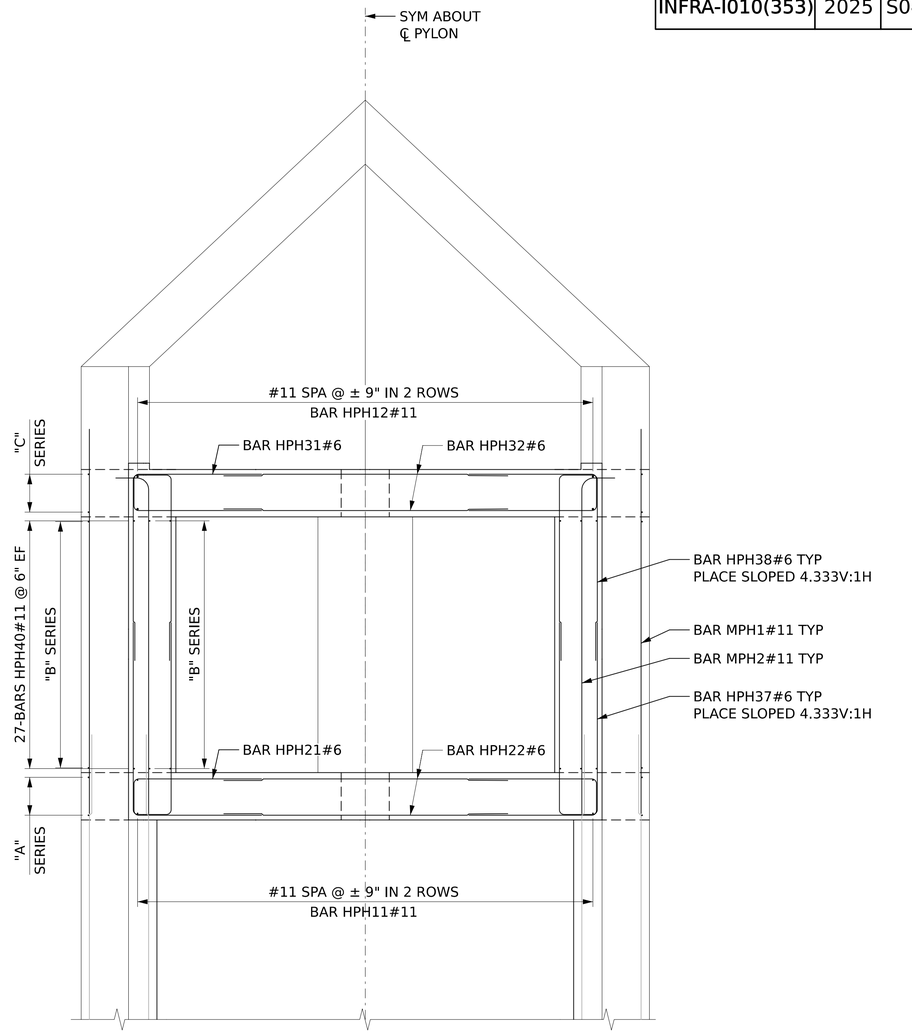
MRB-S04-BR-40251.dgn
Brad.Shepard
7:45:27 PM
3/13/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40252

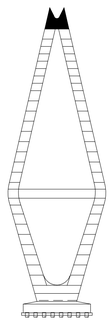
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

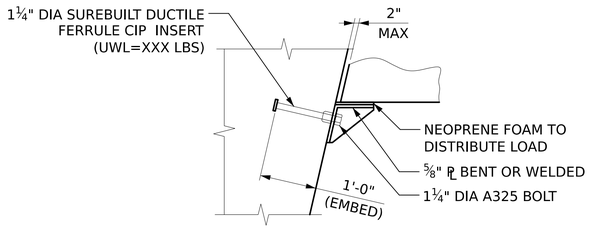


ELEVATION AT ℄ PYLON
SCALE: 1/4" = 1'-0"



SECTION C-C
SCALE: 1/4" = 1'-0"





TYPICAL ANCHOR DETAIL
SCALE: 3/4" = 1'-0"

NOTE:

1. FOR SECTION B-B, SEE "PYLON P29 & P30 PYLON HEAD REINFORCEMENT 4" SHEET.
2. FOR SECTION D-D & E-E, SEE "PYLON P29 & P30 PYLON HEAD REINFORCEMENT 3" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

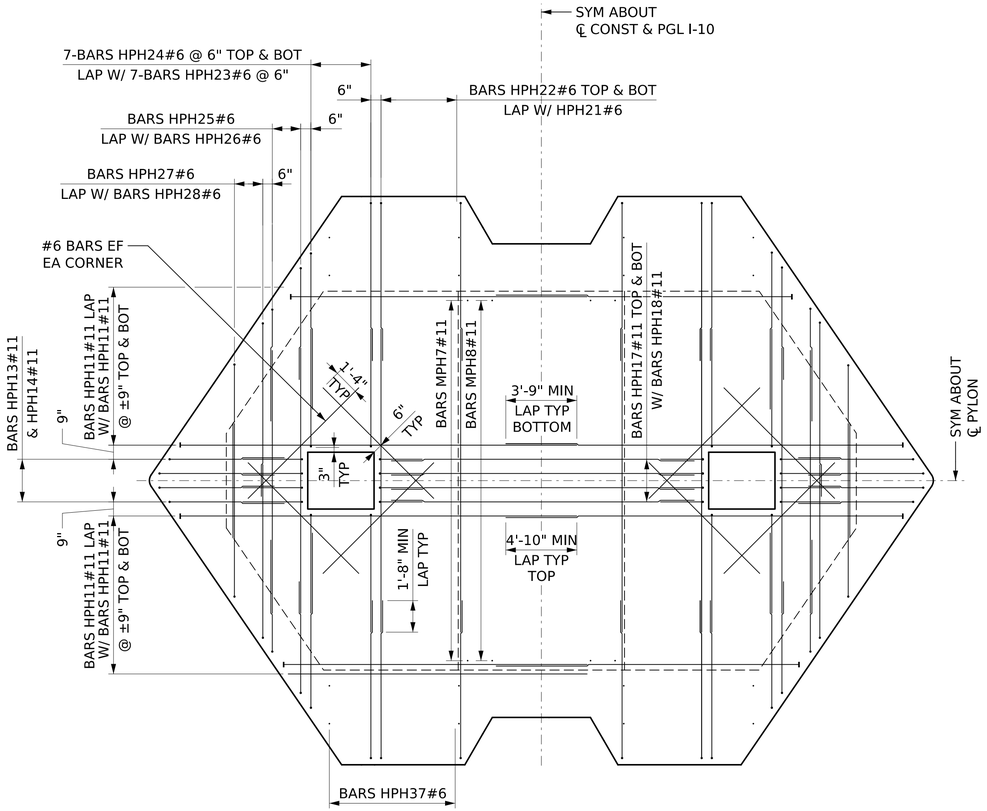
DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON HEAD REINFORCEMENT 2

MRB-S04-BR-40252.dgn
Brad.Shepard
7:45:49 PM
3/13/2025

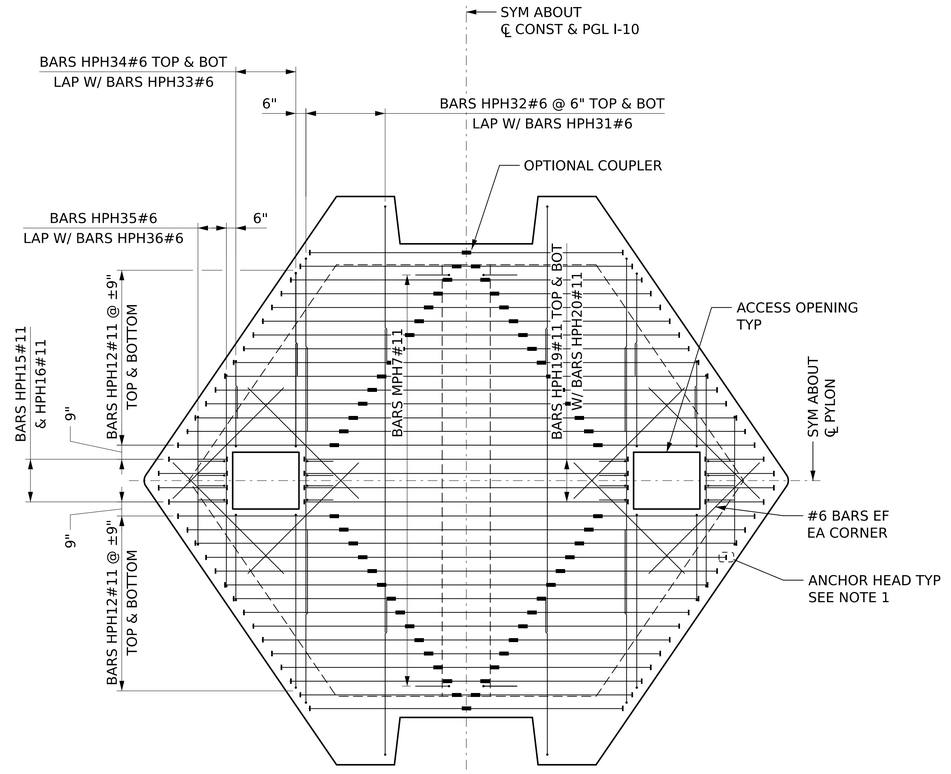
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40253

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



SECTION D-D

SCALE: 1/4" = 1'-0"
(PYLON LEG REINFORCEMENT NOT SHOWN FOR CLARITY)



SECTION E-E

SCALE: 1/4" = 1'-0"
(PYLON LEG REINFORCEMENT NOT SHOWN FOR CLARITY)

NOTE:

1. FOR ANCHOR HEAD DETAILS, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR
A JOINT VENTURE

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

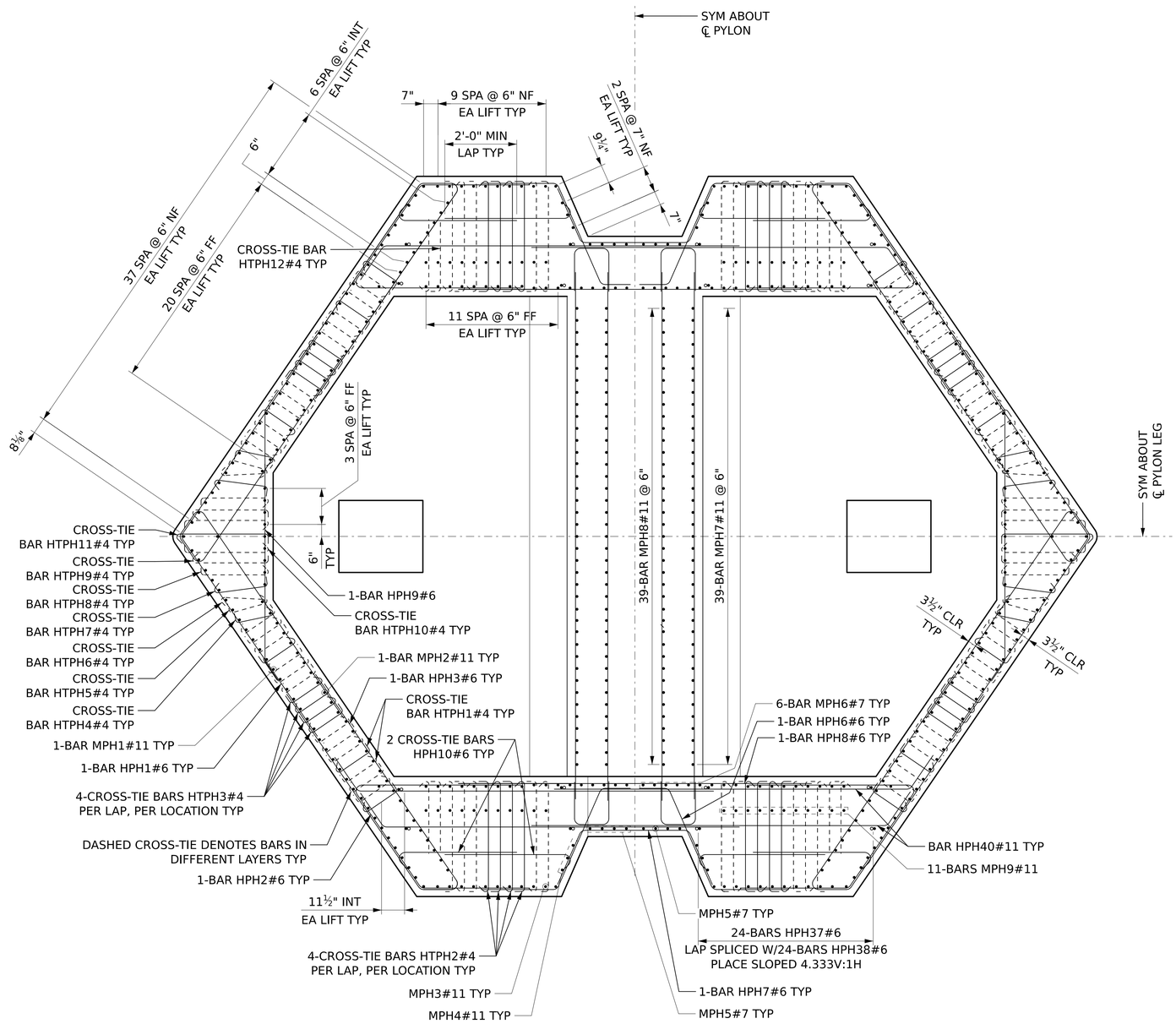
DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
PYLON HEAD REINFORCEMENT 3

MRB-S04-BR-40253.dgn
Brad.Shepard
7:45:55 PM
3/13/2025

0 1" SHEET REFERENCE 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40254



SECTION B-B

SCALE: 3/8" = 1'-0"

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

PYLON HEAD REINFORCEMENT 4

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40254.dgn

Brad.Shepard

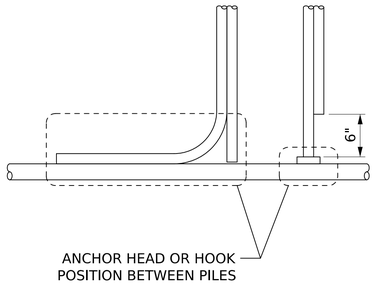
7:46:01 PM

3/13/2025

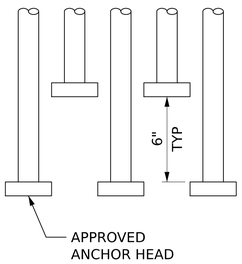
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40261

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

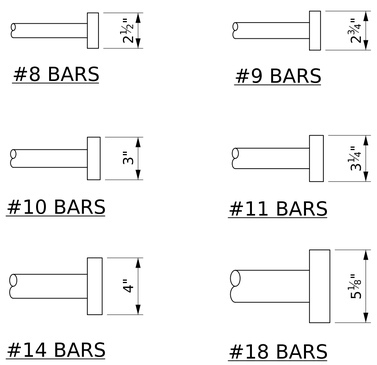


OPTIONAL ANCHOR DETAIL
NOT TO SCALE

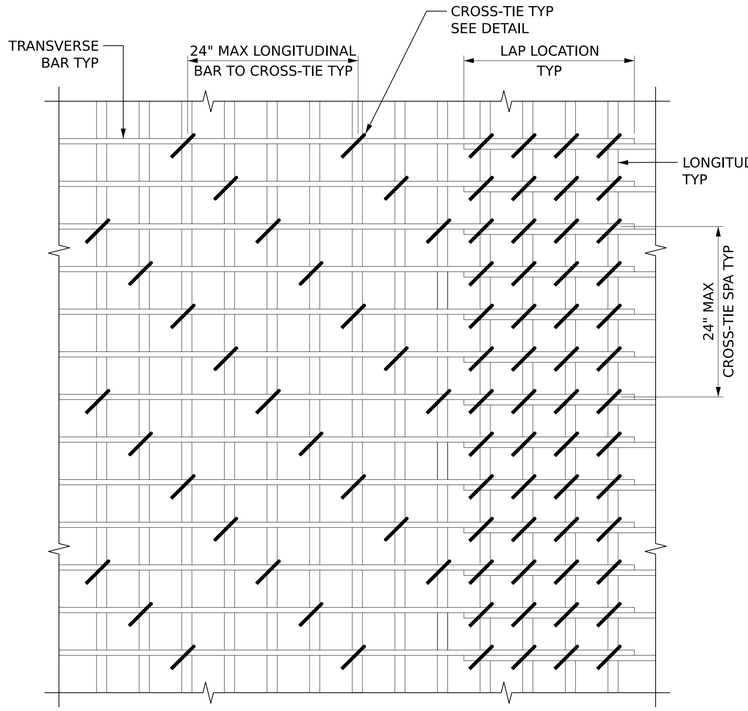


ANCHOR HEAD DETAIL
NOT TO SCALE

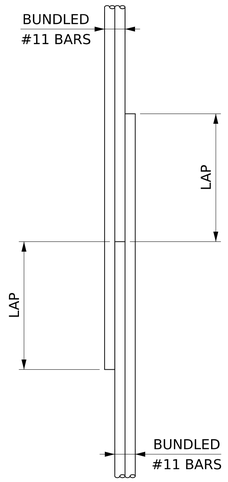
NOTE: USE THIS DETAIL WHEN HEADED OPTION IS UTILIZED.



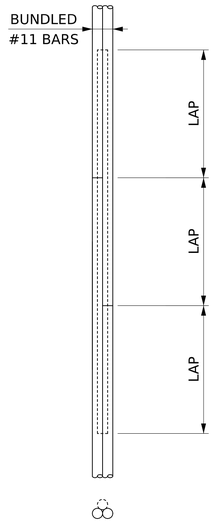
HEADED BAR DETAILS
NOT TO SCALE



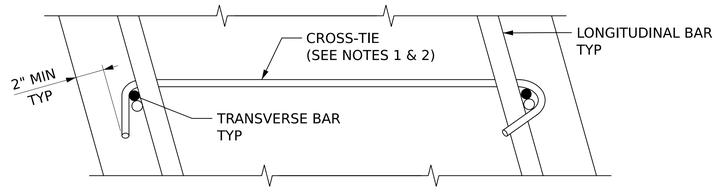
CROSS-TIE ARRANGEMENT DETAIL
NOT TO SCALE



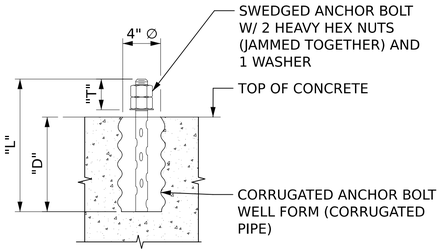
LAP SPLICE DETAIL OPTION 1 FOR BUNDLED #11 BARS
NOT TO SCALE



LAP SPLICE DETAIL OPTION 2 FOR BUNDLED #11 BARS
NOT TO SCALE



CROSS-TIE DETAIL
NOT TO SCALE



ANCHOR BOLT AND WELL DETAIL
NOT TO SCALE

∅ ANCHOR BOLT DIMENSIONS				
BOLT TYPE	DIA	LENGTH "L"	THREADS "T"	EMBED "D"
AB-1	1"	2'-0"	6"	1'-4"
AB-2	1 ¼"	2'-3"	7"	1'-6"
AB-3	1 ½"	2'-7"	8"	1'-9"
AB-4	1 ¾"	2'-9"	9"	2'-0"
AB-5	2"	3'-1"	10"	2'-3"
AB-6	2 ¼"	3'-5"	11"	2'-6"

CROSS-TIE NOTES:

1. CROSS-TIES SHALL BE LOCATED SO THAT EACH LONGITUDINAL REINFORCING BAR AND EACH TRANSVERSE REINFORCING BAR SHALL BE ENCLOSED BY THE HOOK OF A CROSS-TIE AT A SPACING NO GREATER THAN 24".
2. ALTERNATE CROSS-TIE 90 DEGREE AND 135 DEGREE ENDS HORIZONTALLY AND VERTICALLY.

ANCHOR BOLT NOTES:

1. SWEDGED ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M 232. DAMAGED GALVANIZED SURFACES NOT TO BE ENCASED IN CONCRETE SHALL BE REPAIRED IN ACCORDANCE WITH STANDARD SPECIFICATION 855.15.
2. SWEDGED ANCHOR BOLTS SHALL BE SET IN 4" ∅ ANCHOR BOLT WELLS.
3. PROVIDE EACH ANCHORS BOLT WELL WITH A READILY REMOVABLE WATERTIGHT CAP, DETAILS TO BE APPROVED BY THE ENGINEER. THE FORMWORK, DEBRIS AND STANDING WATER SHALL BE REMOVED FROM EACH WELL IMMEDIATELY PRIOR TO CAPPING. IT IS MANDATORY THAT CAPS BE IN PLACE THROUGHOUT PERIODS DURING WHICH BELOW FREEZING TEMPERATURES CAN BE EXPECTED TO OCCUR. THE CONTRACTOR SHALL ENSURE THAT ANY WATER TRAPPED IN THE WELLS DOES NOT FREEZE.
4. REMOVE CORRUGATED WELL FORM PRIOR TO GROUTING ANCHOR BOLTS. DO NOT GROUT ANCHOR BOLTS UNTIL GIRDERS HAVE BEEN COMPLETELY ERECTED, ADJUSTED IF NECESSARY AFTER ERECTION AND APPROVED BY THE ENGINEER.
5. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 105.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	02/14/2025	60% SUBMITTAL
B	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

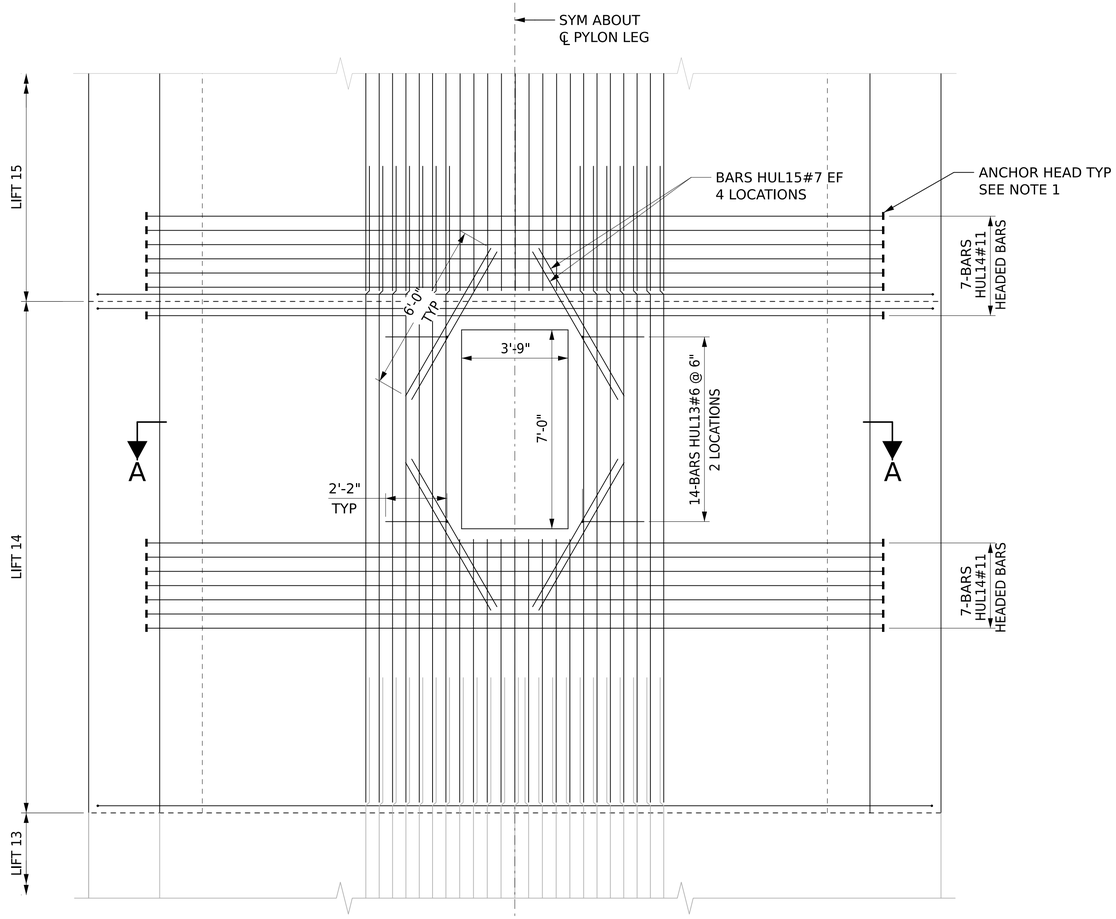
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
MISCELLANEOUS DETAILS

MRB-S04-BR-40261.dgn
Adriana.Albarano
1:40:45 PM
3/14/2025

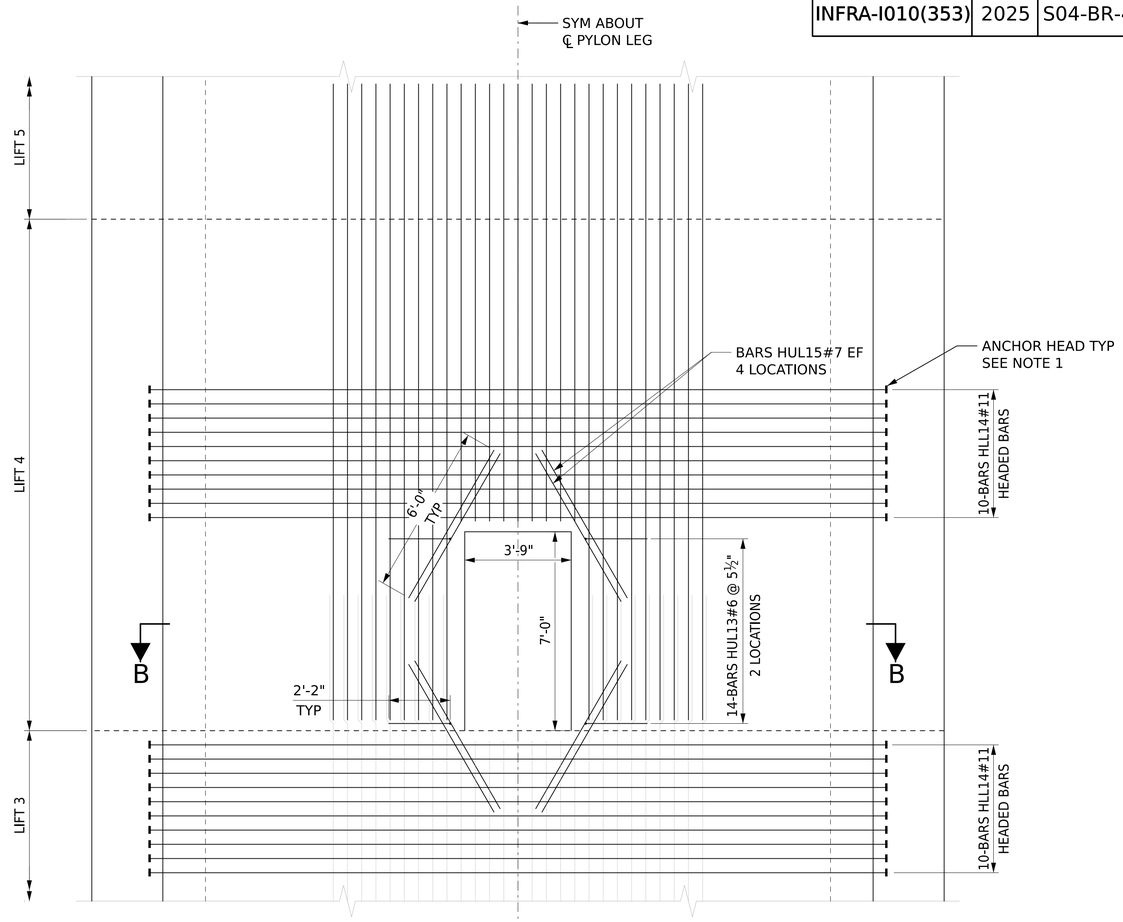
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40263

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



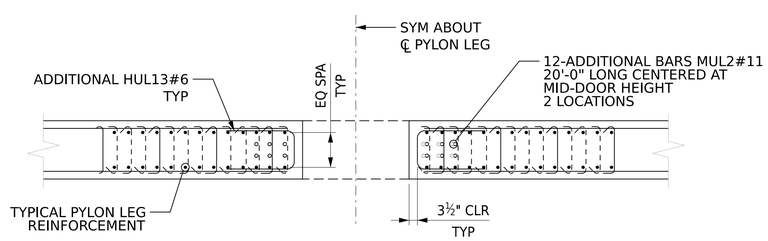
ELEVATION AT DOOR OPENING IN LIFT 14

SCALE: 3/8" = 1'-0"



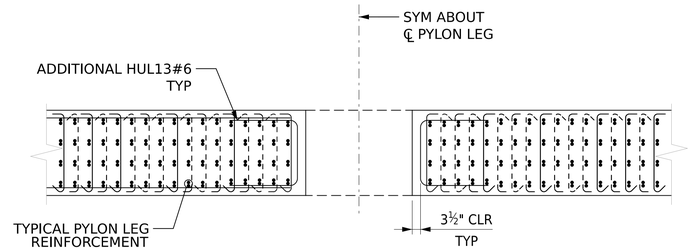
ELEVATION AT DOOR OPENING IN LIFT 4

SCALE: 3/8" = 1'-0"



SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

NOTE:

1. FOR ANCHOR HEAD DETAIL AND CROSS-TIE ARRANGEMENT, SEE "PYLON P29 & P30 MISCELLANEOUS DETAILS" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 04/04/2025

BRIDGE SHEET NO. OF

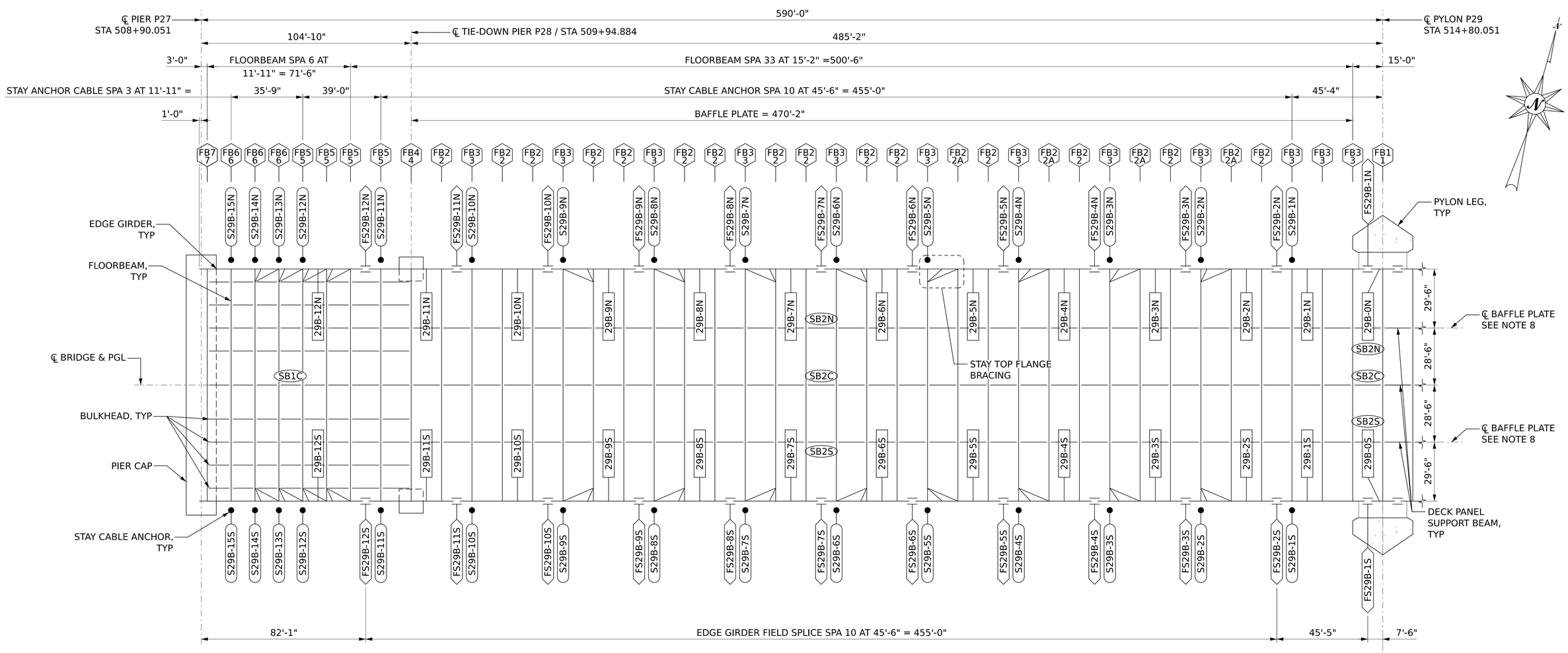
SHEET TITLE

MAIN SPAN BRIDGE
PYLON P29 & P30
ACCESS OPENING DETAILS

MRB-S04-BR-40263.dgn
Adriana.Albarano
12:25:16 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40501

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



BACK SPAN - PLAN VIEW

SCALE: NTS

FB1 1 FLOORBEAM / SPLICE TYPE DESIGNATION

FB 1
- TYPE NUMBER
- FLOORBEAM

1
- FIELD SPLICE TYPE

S29B-1S STAY DESIGNATION

S 29 B - 1S
- STAY
  - 29: PYLON 29
  - 30: PYLON 30
- N: NORTH, S: SOUTH
- STAY NUMBER
- B: BACK SPAN, M: MAIN SPAN

FS29B-1S EDGE GIRDER FIELD SPLICE

FS 29 B - 1S
- FIELD SPLICE
  - 29: PYLON 29
  - 30: PYLON 30
- N: NORTH, S: SOUTH
- FIELD SPLICE NUMBER
- B: BACK SPAN, M: MAIN SPAN

29B-1S EDGE GIRDER FIELD SECTION DESIGNATION

29 B - 1S
- 29: PYLON 29, 30: PYLON 30
- B: BACK SPAN, M: MAIN SPAN
- N: NORTH, S: SOUTH
- GIRDER FIELD SECTION NUMBER

SB1S DECK PANEL SUPPORT BEAM DESIGNATION

SB 1 S
- N: NORTH, C: CENTER, S: SOUTH
- TYPE NUMBER
- SUPPORT BEAM

NOTES:

1. DIMENSIONS SHOWN ARE NOMINAL DIMENSIONS IN PLAN VIEW.
2. FOR EDGE GIRDER DETAILS, SEE "LONGITUDINAL EDGE GIRDER" SHEETS.
3. FOR FLOORBEAM DETAILS, SEE "TRANSVERSE FLOORBEAM" SHEETS.
4. FOR DECK PANEL SUPPORT BEAM DETAILS, SEE "DECK PANEL SUPPORT BEAM" SHEETS.
5. FOR STAY CABLE DETAILS, SEE "STAY CABLE" SHEETS.
6. FOR STAY TOP FLANGE BRACING DETAILS, SEE "STAY TOP FLANGE BRACING" SHEETS.
7. FOR BULKHEAD DETAILS, SEE "PIER P27 & P32 BALLAST" SHEETS.
8. BAFFLE PLATES OMITTED BETWEEN FLOORBEAM TYPE 1 AND FLOORBEAM TYPE 3 ON BOTH SIDES OF PYLONS. BAFFLE PLATES TERMINATE AT FB4.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

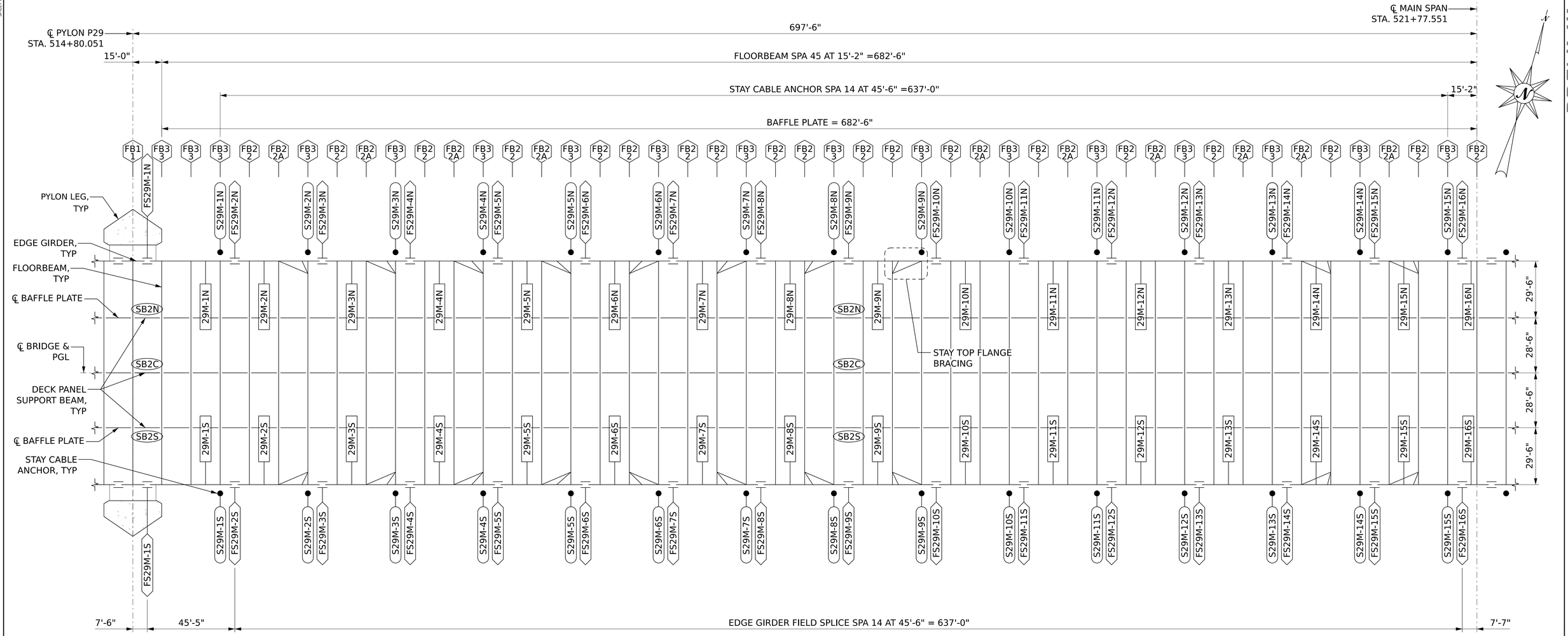
DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STEEL FRAMING LAYOUT 1

MRB-S04-BR-40501.dgn
rweibel
11:54:54 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40502



MAIN SPAN - PLAN VIEW

SCALE: NTS

NOTES:

1. FOR LEGEND AND NOTES, SEE "STEEL FRAMING LAYOUT 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

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A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

STEEL FRAMING LAYOUT 2

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40502.dgn

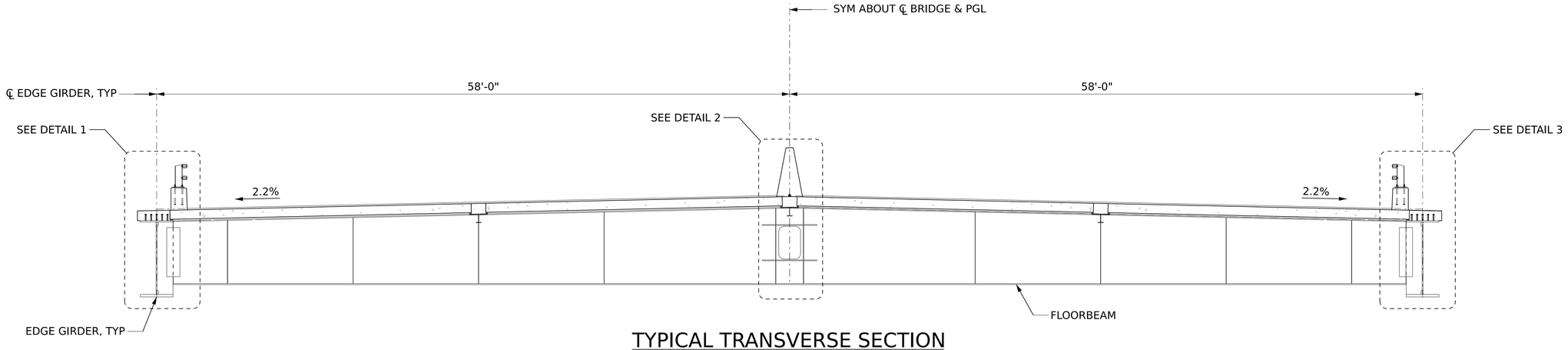
rweibel

11:55:01 AM

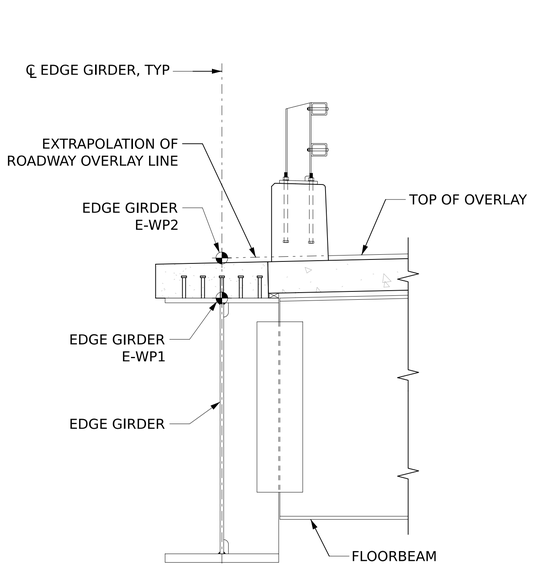
3/14/2025

SHEET REFERENCE 0 1" 2"

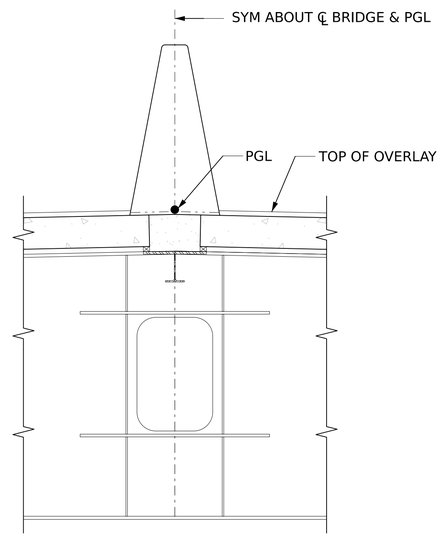
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40512



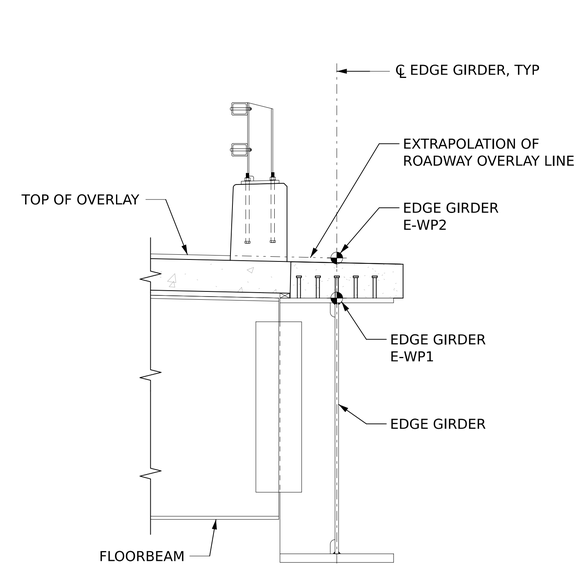
TYPICAL TRANSVERSE SECTION
SCALE: 3/16" = 1'-0"



DETAIL 1
SCALE: 1/2" = 1'-0"



DETAIL 2
SCALE: 1/2" = 1'-0"



DETAIL 3
SCALE: 1/2" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "EDGE GIRDER GEOMETRY - DETAILS 2" SHEET (TO BE DEVELOPED).

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BRIDGE ENGINEER DATE

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A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

EDGE GIRDER GEOMETRY

DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40512.dgn

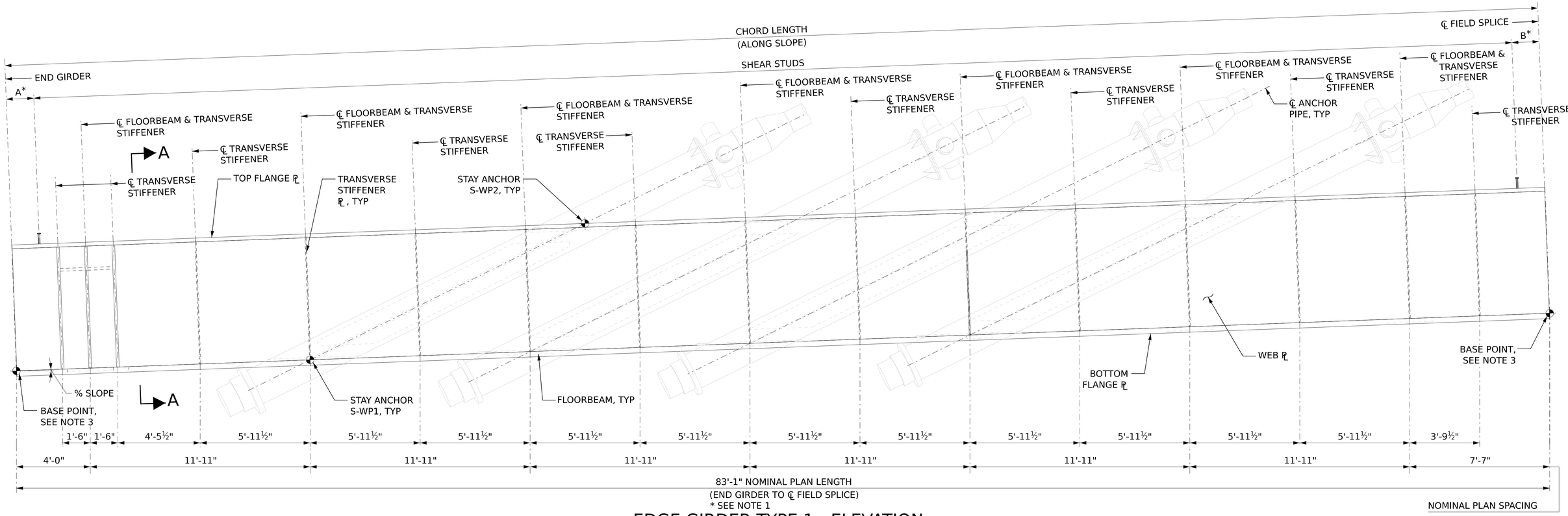
rweibel

1:10:21 PM

3/14/2025

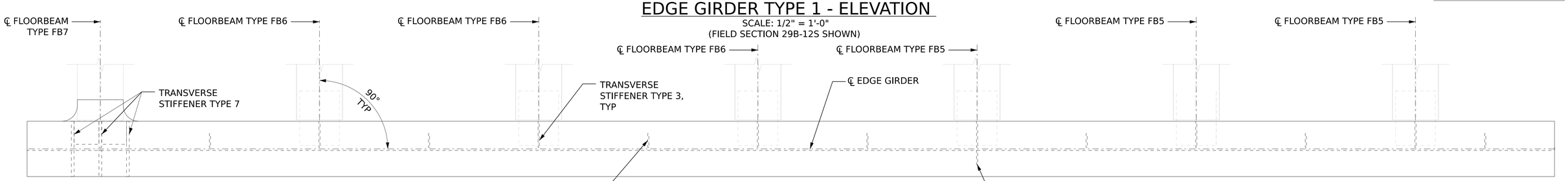
2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40521



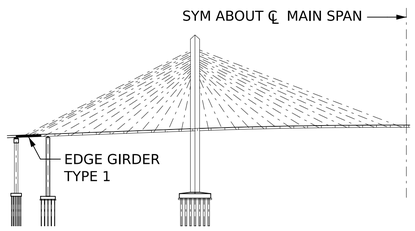
EDGE GIRDER TYPE 1 - ELEVATION

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-12S SHOWN)



TOP PLAN VIEW

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-12S
SHOWN, STAY ANCHORS AND BRACING NOT SHOWN)



KEY - ELEVATION

SCALE: NTS

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP AND GEOMETRY DEFINITIONS, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
6. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 1

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

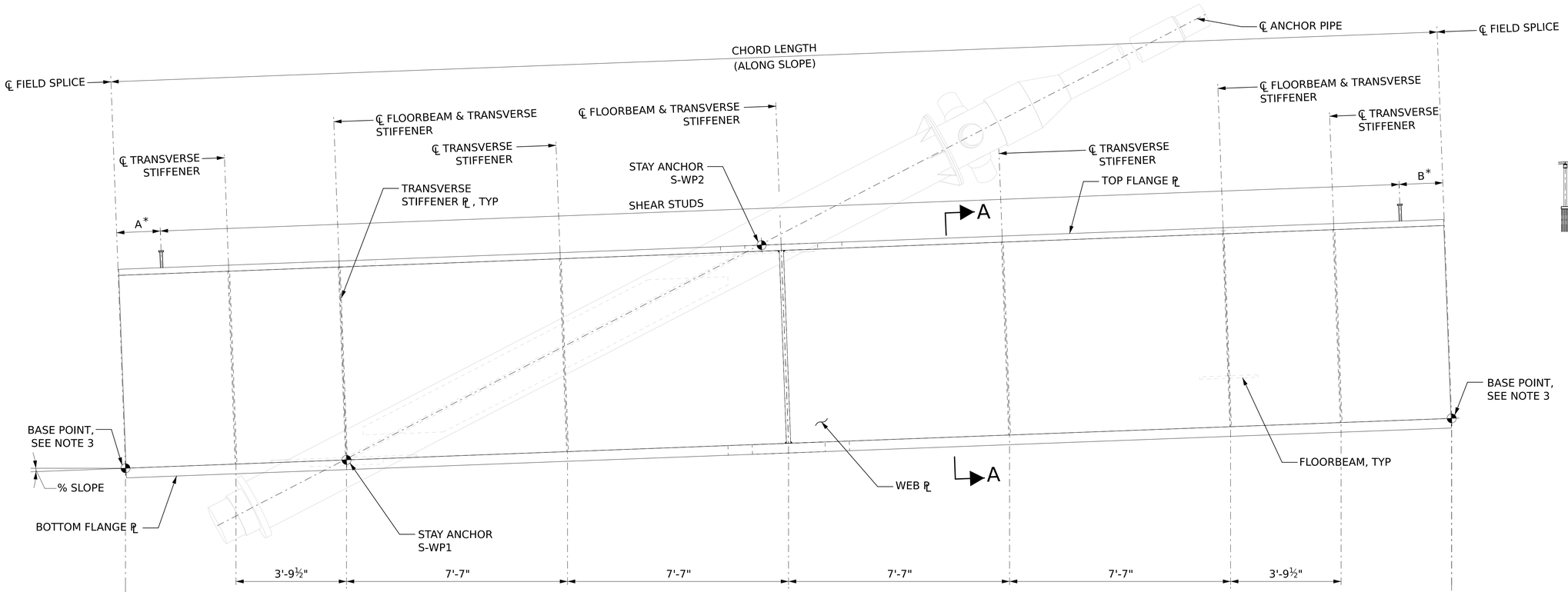
MRB-S04-BR-40521.dgn
rweibel
11:55:18 AM
3/14/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40524

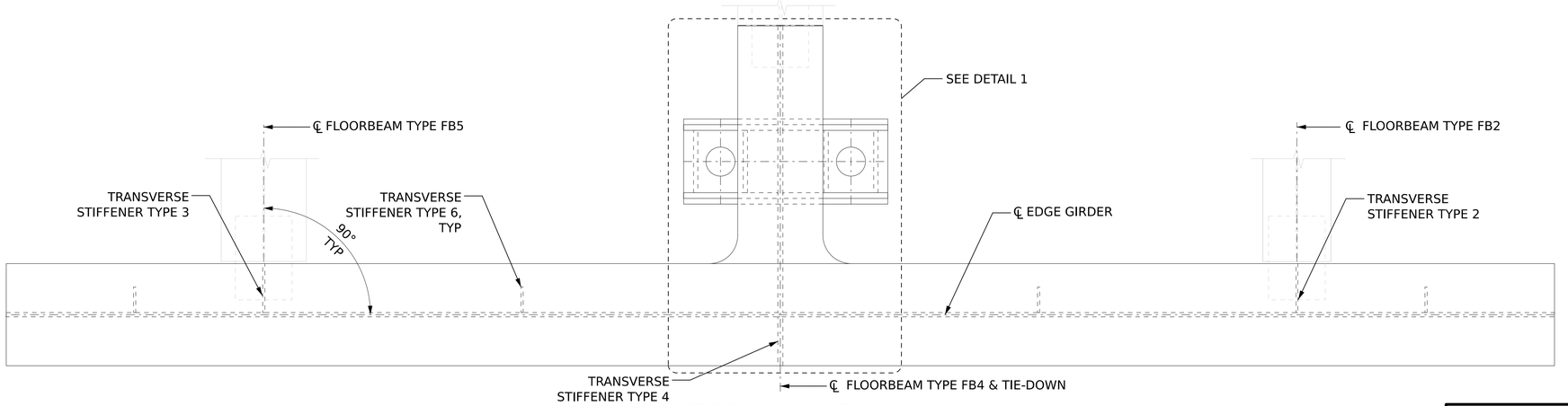
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



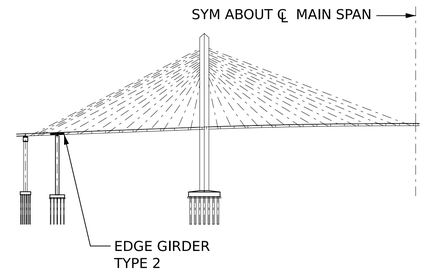
EDGE GIRDER TYPE 2 - ELEVATION

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-11S SHOWN) * SEE NOTE 1



TOP PLAN VIEW

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-11S SHOWN, ANCHOR NOT SHOWN)



KEY - ELEVATION

SCALE: NTS

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP AND GEOMETRY DEFINITIONS, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR DETAIL 1 AND TIE-DOWN OUTRIGGER DETAILS, SEE "LONGITUDINAL EDGE GIRDER - FIELD SECTION TYPE 2 - DETAILS" SHEETS.
6. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
7. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEET.

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ACCEPTED BY

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ALABAMA DEPARTMENT OF TRANSPORTATION

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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

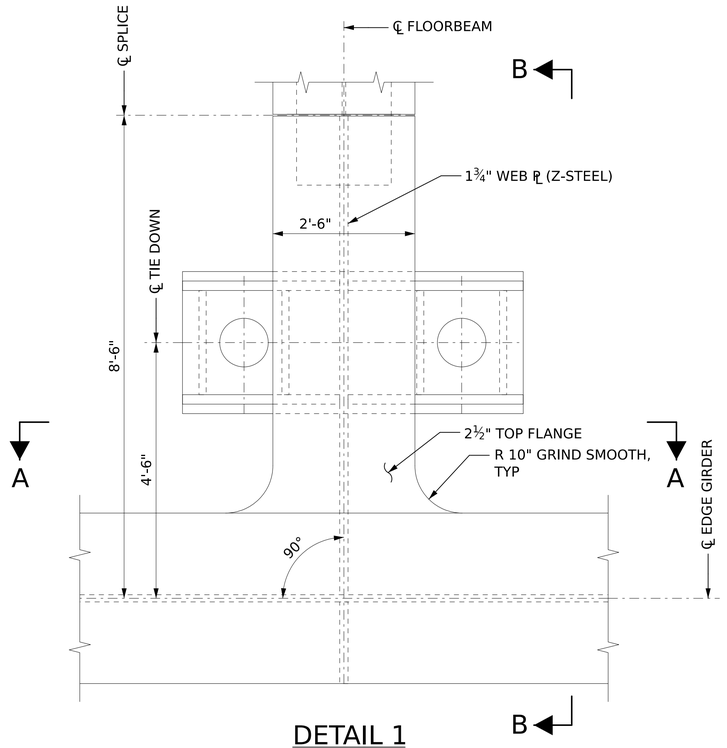
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 2

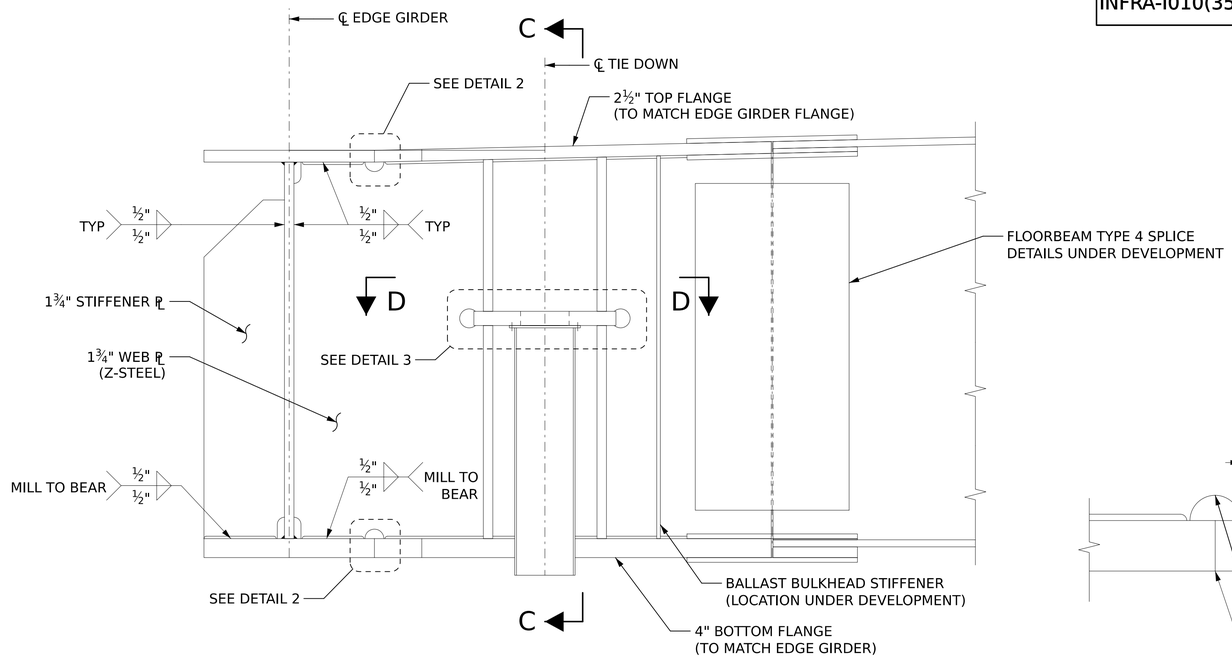
MRB-S04-BR-40524.dgn rweibel 11:55:25 AM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40525

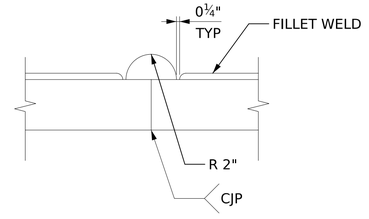
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



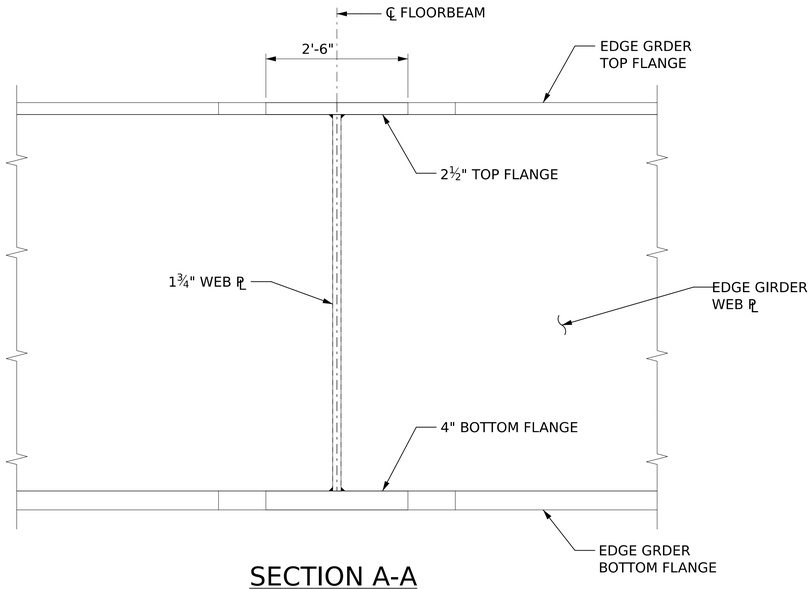
DETAIL 1
SCALE: 3/4" = 1'-0"
(BOTTOM SIMILAR)



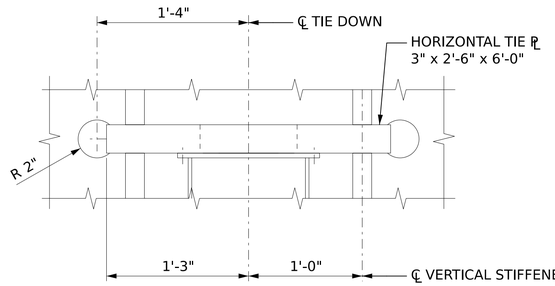
SECTION B-B
SCALE: 3/4" = 1'-0"



DETAIL 2
SCALE: NTS



SECTION A-A
SCALE: 3/4" = 1'-0"



DETAIL 3
SCALE: 1 1/2" = 1'-0"

NOTES:

1. WORK THIS DRAWING WITH "LONGITUDINAL EDGE GIRDER - FIELD SECTION TYPE 2" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 2 - DETAILS 1

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rweibel
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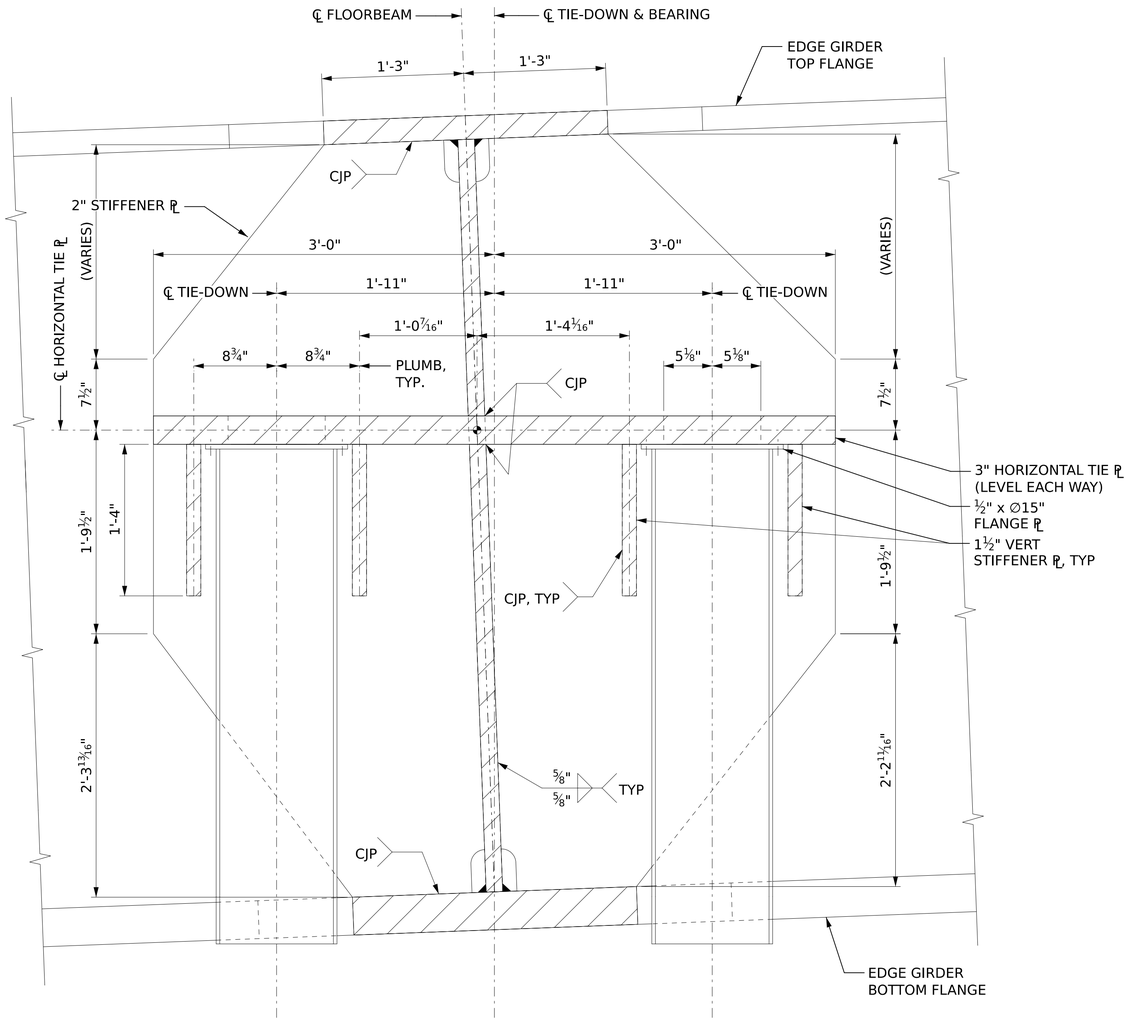
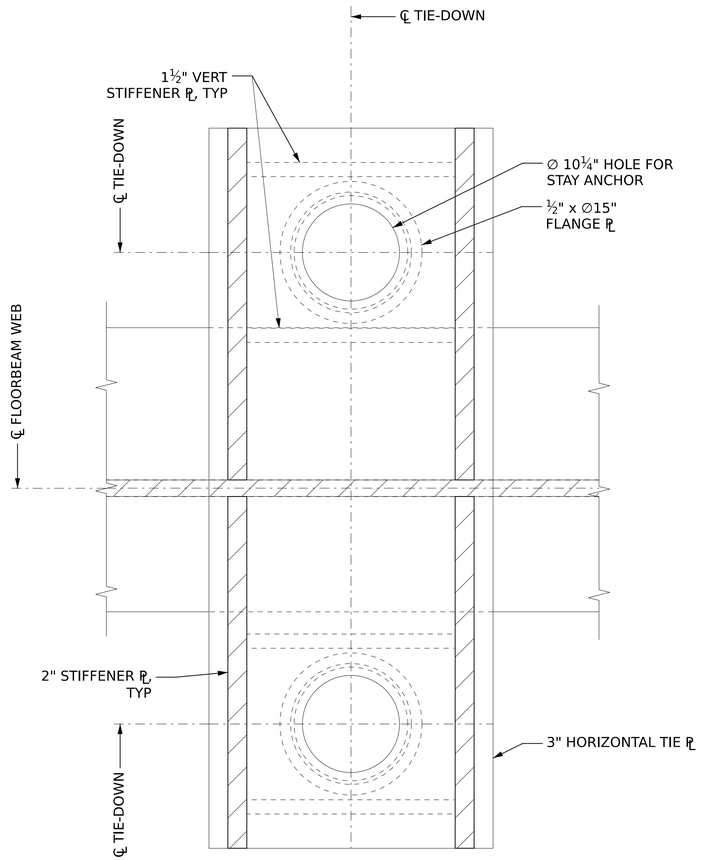
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40526



SECTION C-C

SCALE: 1 1/2" = 1'-0"
(SHOWN AT P28 TIE-DOWN PIER)



SECTION D-D

SCALE: 1 1/2" = 1'-0"

NOTES:

1. WORK THIS DRAWING WITH "LONGITUDINAL EDGE GIRDER - FIELD SECTION TYPE 2 DETAILS 1" SHEET.

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

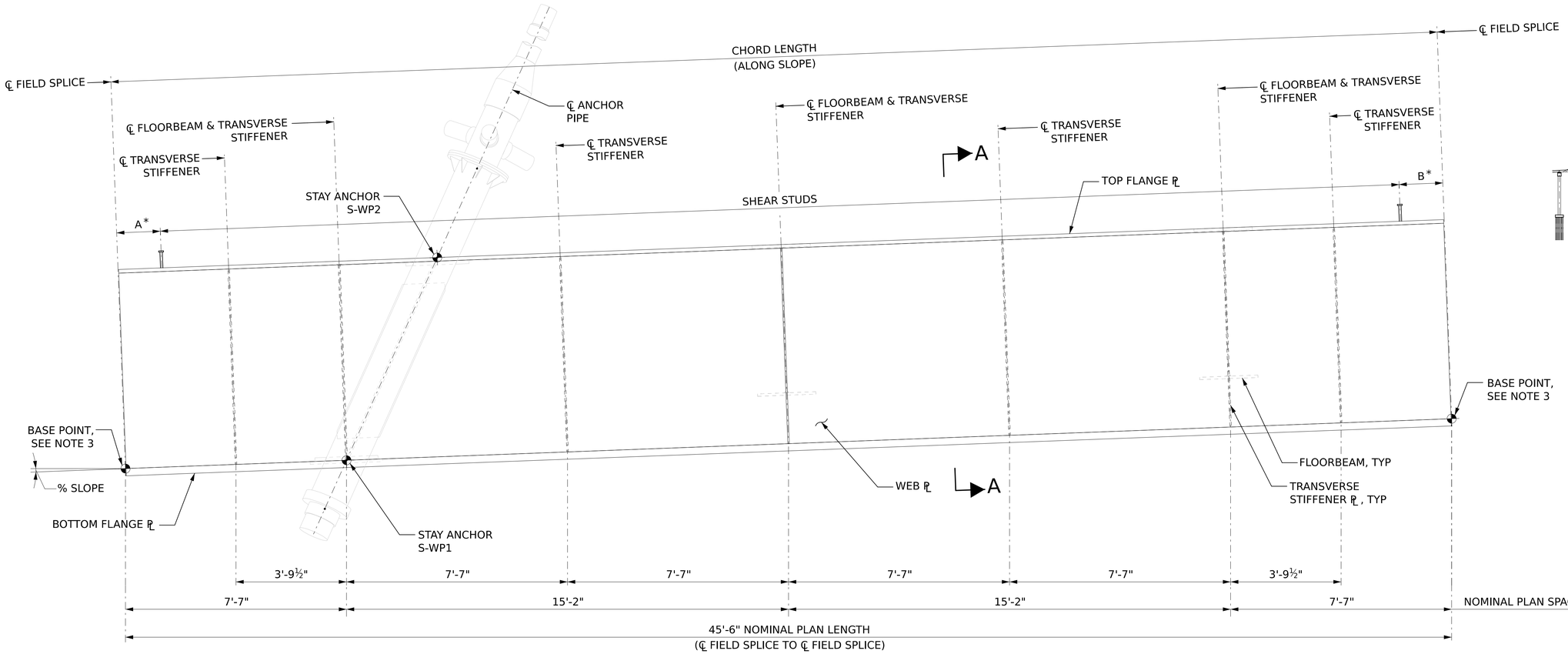
SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 2 - DETAILS 2

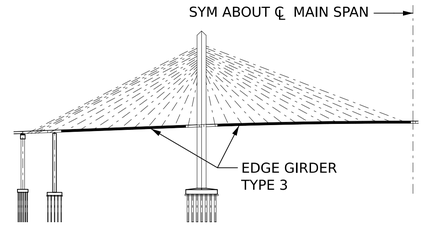
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40526.dgn
rweibel
1:15:07 PM
3/14/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40527



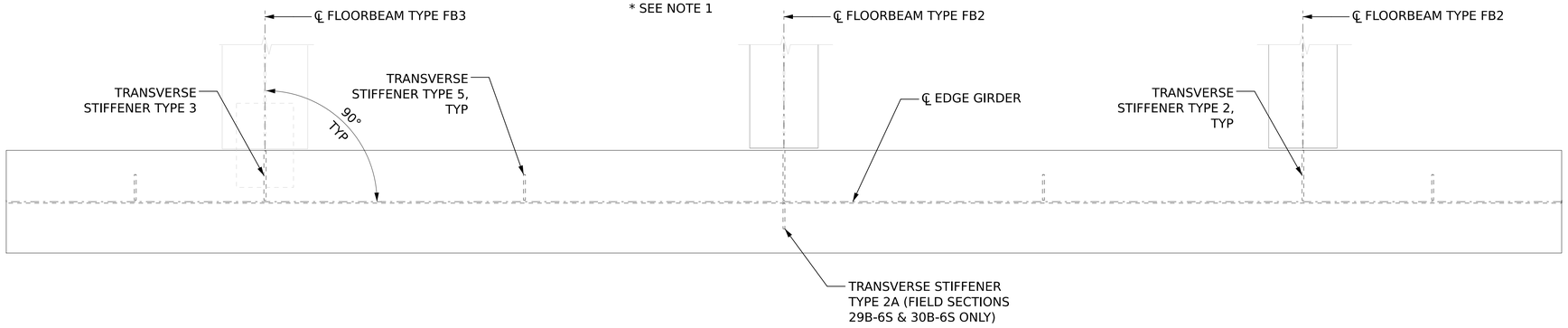


KEY - ELEVATION

SCALE: NTS

EDGE GIRDER TYPE 3 - ELEVATION

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-2S SHOWN OTHERS SIMILAR)
* SEE NOTE 1



TOP PLAN VIEW

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-2S
SHOWN, STAY ANCHORS AND BRACING NOT SHOWN)

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM THE TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP AND GEOMETRY DEFINITIONS, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
6. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 3

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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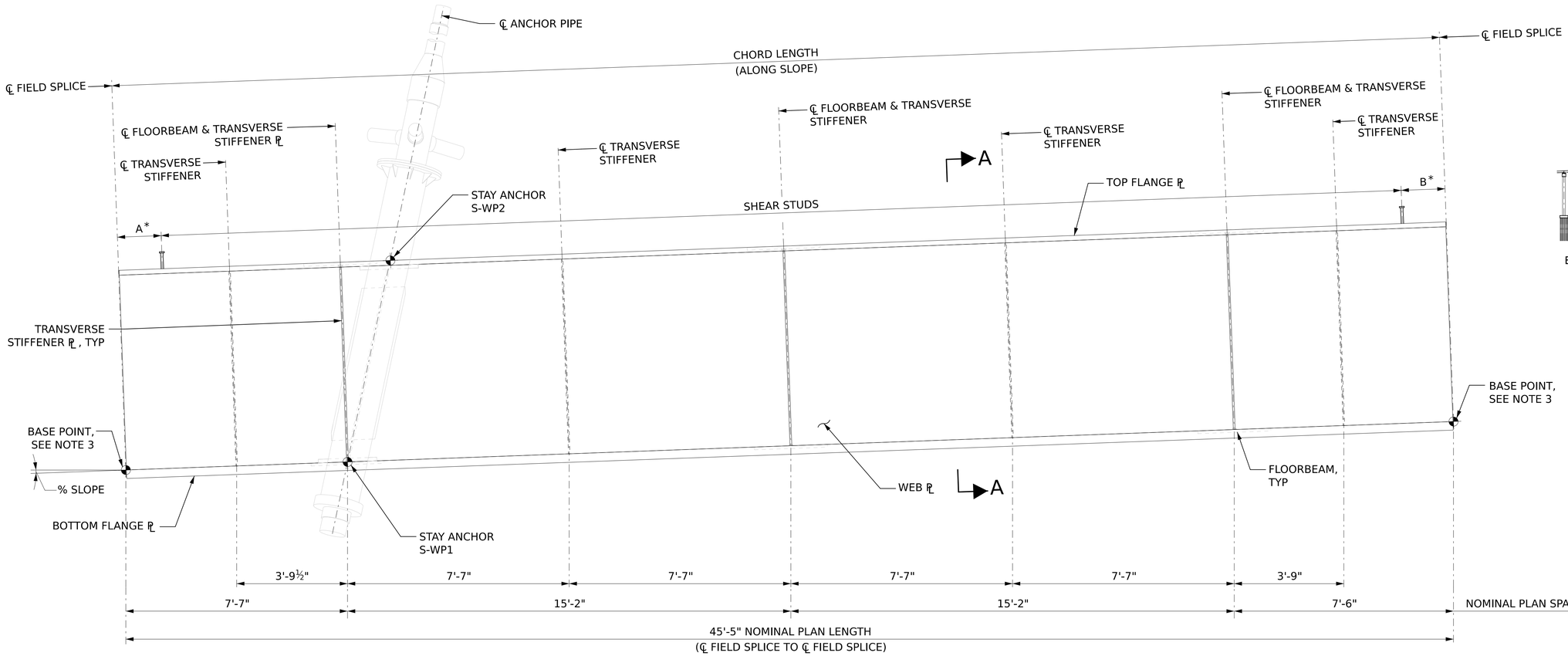
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40528

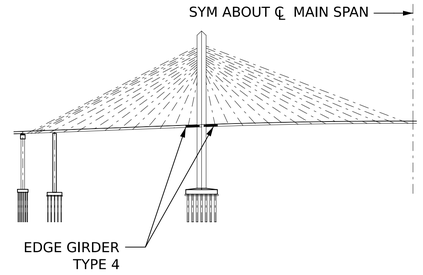
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



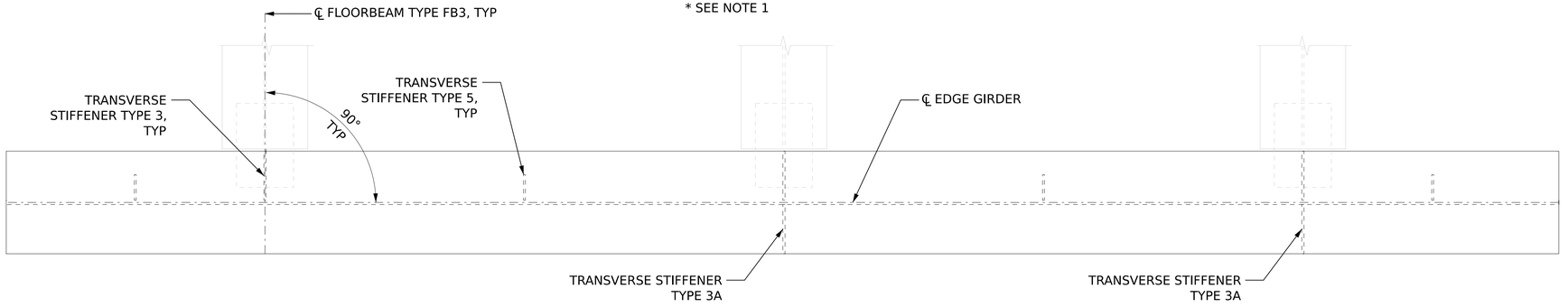
EDGE GIRDER TYPE 4 - ELEVATION

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-1S SHOWN)
* SEE NOTE 1



KEY - ELEVATION

SCALE: NTS



TOP PLAN VIEW

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-1S SHOWN, ANCHOR NOT SHOWN)

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM THE TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP AND GEOMETRY DEFINITIONS, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
6. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEET.

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BRIDGE ENGINEER DATE

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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PLAN SUBMITTAL
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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

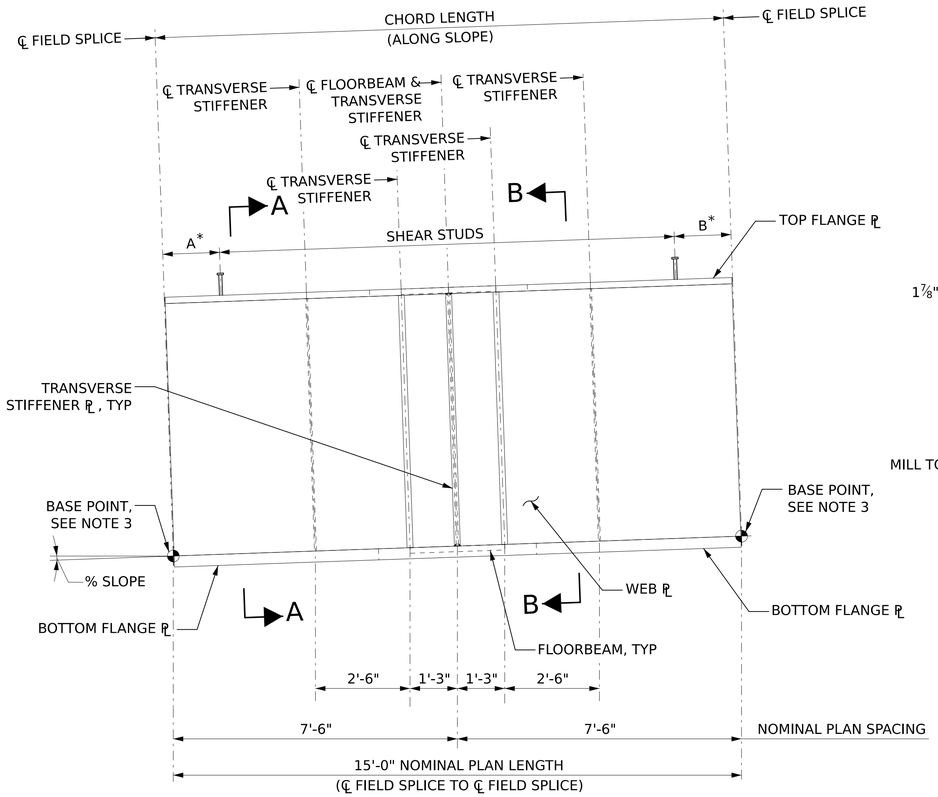
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 4

MRB-S04-BR-40528.dgn
rweibel
11:56:04 AM
3/14/2025

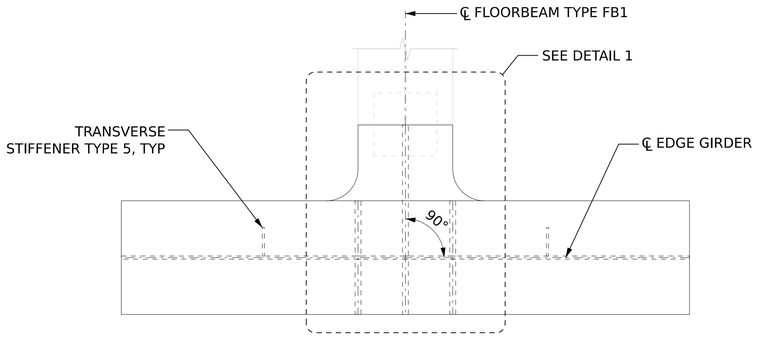
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40530

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



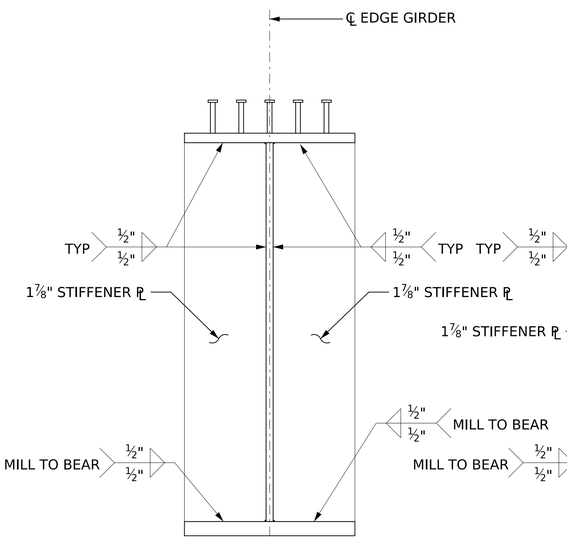
EDGE GIRDER TYPE 5 - ELEVATION

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-0S SHOWN)
* SEE NOTE 1



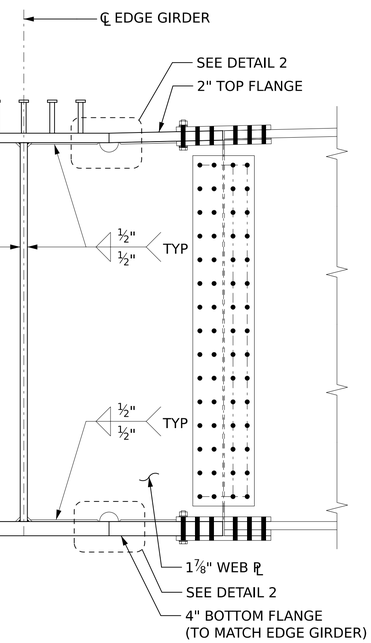
TOP PLAN VIEW

SCALE: 1/2" = 1'-0"
(FIELD SECTION 29B-0S SHOWN)



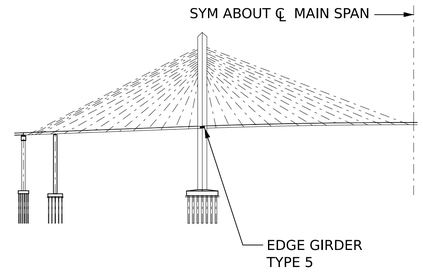
SECTION A-A

SCALE: 3/4" = 1'-0"



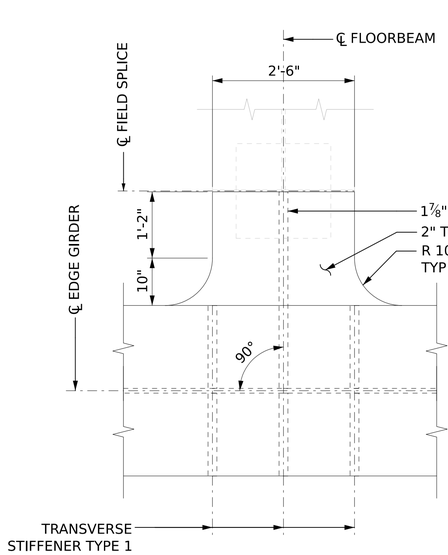
SECTION B-B

SCALE: 3/4" = 1'-0"



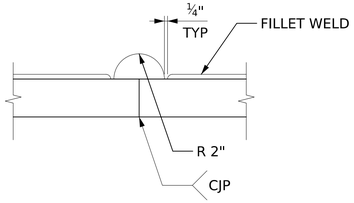
KEY - ELEVATION

SCALE: NTS



DETAIL 1

SCALE: 3/4" = 1'-0"
(BOTTOM SIMILAR)



DETAIL 2

SCALE: NTS

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM THE TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
6. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE
PKS Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

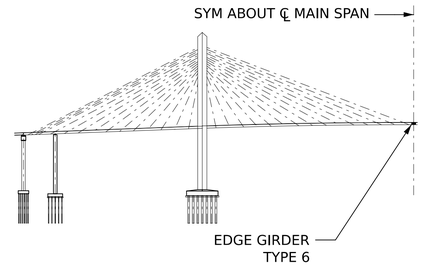
DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 5

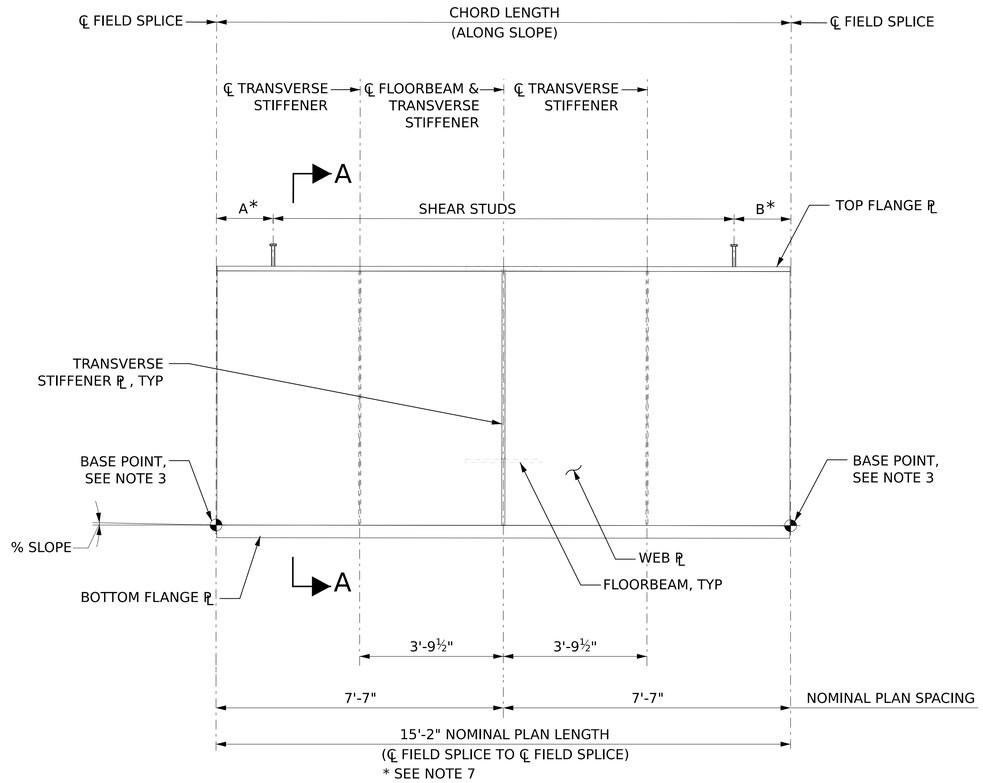
MRB-S04-BR-40530.dgn
rweibel
11:56:13 AM
3/14/2025

SHEET REFERENCE
0 1" 2"

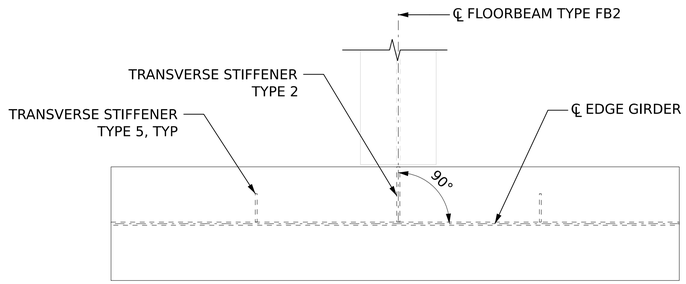
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40531



KEY - ELEVATION
SCALE: NTS



EDGE GIRDER TYPE 6 - ELEVATION
SCALE: 1/2" = 1'-0"
(FIELD SECTION 29M-16S SHOWN)



TOP PLAN VIEW
SCALE: 1/2" = 1'-0"
(FIELD SECTION 29M-16S SHOWN)

NOTES:

1. FOR SECTION A-A AND SHEAR STUD PLACEMENT, SEE TABLE ON "LONGITUDINAL EDGE GIRDER - PLATE SCHEDULE" SHEET.
2. NOMINAL DIMENSIONS ARE TAKEN FROM THE TOP OF THE BOTTOM FLANGE.
3. FOR EDGE GIRDER WP AND GEOMETRY DEFINITIONS, SEE "EDGE GIRDER GEOMETRY - DETAILS" SHEETS.
4. FOR STAY ANCHOR WP, SEE "STAY CABLE - GEOMETRY" SHEETS.
5. FOR TRANSVERSE STIFFENERS, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS" SHEETS.
6. FOR FIELD SPLICES, SEE "LONGITUDINAL EDGE GIRDER - FIELD SPLICE DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SECTION TYPE 6

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40531.dgn
rweibel
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3/14/2025

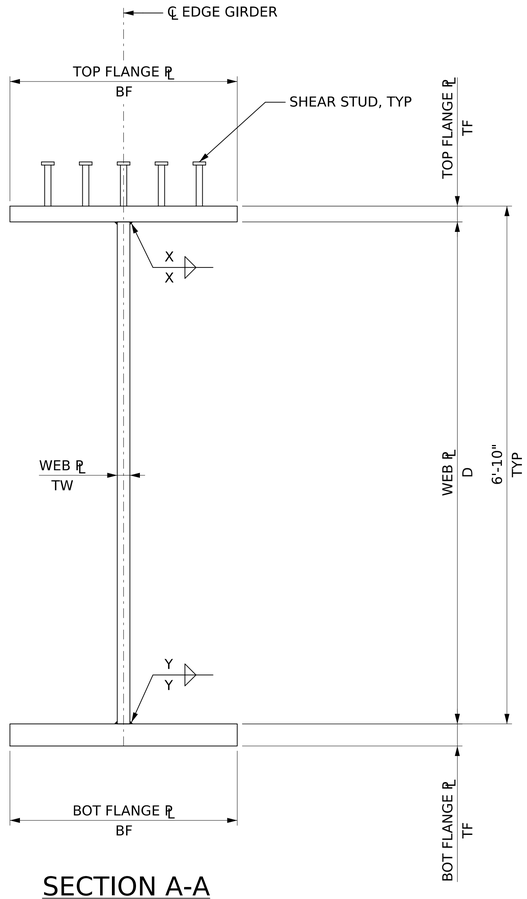
2" 1" SHEET REFERENCE 0

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40533

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"

EDGE GIRDER DIMENSIONS													
FIELD SECTION	TYPE	SLOPE	CHORD LENGTH	TOP FLANGE PLATE		WEB PLATE		BOTTOM FLANGE PLATE		WELDS		SHEAR STUDS	
		(%)	(FT)	BF (IN)	TF (IN)	D (IN)	TW (IN)	BF (IN)	TF (IN)	X (IN)	Y (IN)	A (IN)	B (IN)
29B-12N/S	1	3.763	83.142	36.0	2.50	79.50	2.000	36.0	3.50	0.6875	0.5000	6.00	25.0
29B-11N/S	2	3.763	45.532	36.0	2.50	79.50	2.000	36.0	4.00	0.6875	0.5000	29.0	25.0
29B-10N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	3.25	0.3750	0.5000	23.0	19.0
29B-9N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
29B-8N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
29B-7N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	23.0	19.0
29B-6N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	26.0	25.0
29B-5N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	20.0	22.0
29B-4N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
29B-3N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	26.0	25.0
29B-2N/S	3	3.763	45.532	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	20.0	22.0
29B-1N/S	4	3.650	45.447	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	23.0	27.0
29B-0N/S	5	3.494	15.009	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	27.0	27.0
29M-1N/S	4	3.337	45.442	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	27.0	23.0
29M-2N/S	3	3.102	45.522	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	22.0	20.0
29M-3N/S	3	2.866	45.519	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	25.0	26.0
29M-4N/S	3	2.631	45.516	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	19.0	23.0
29M-5N/S	3	2.395	45.513	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	22.0	20.0
29M-6N/S	3	2.160	45.511	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	25.0	26.0
29M-7N/S	3	1.924	45.508	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-8N/S	3	1.689	45.506	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-9N/S	3	1.453	45.505	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-10N/S	3	1.217	45.503	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-11N/S	3	0.982	45.502	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-12N/S	3	0.746	45.501	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
29M-13N/S	3	0.511	45.501	36.0	1.50	80.50	1.125	36.0	2.75	0.3750	0.5000	19.0	23.0
29M-14N/S	3	0.275	45.500	36.0	1.50	80.50	1.125	36.0	3.25	0.3750	0.5000	19.0	23.0
29M-15N/S	3	0.040	45.500	36.0	1.50	80.50	1.125	36.0	4.00	0.3750	0.5000	19.0	23.0
29M-16N/S	6	-0.117	15.167	36.0	1.50	80.50	1.125	36.0	3.50	0.3750	0.5000	19.0	19.0
30M-15N/S	3	-0.274	45.500	36.0	1.50	80.50	1.125	36.0	4.00	0.3750	0.5000	19.0	23.0
30M-14N/S	3	-0.510	45.501	36.0	1.50	80.50	1.125	36.0	3.25	0.3750	0.5000	19.0	23.0
30M-13N/S	3	-0.746	45.501	36.0	1.50	80.50	1.125	36.0	2.75	0.3750	0.5000	19.0	23.0
30M-12N/S	3	-0.981	45.502	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-11N/S	3	-1.217	45.503	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-10N/S	3	-1.452	45.505	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-9N/S	3	-1.688	45.506	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-8N/S	3	-1.923	45.508	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-7N/S	3	-2.159	45.511	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	19.0	23.0
30M-6N/S	3	-2.394	45.513	36.0	1.50	80.50	1.250	36.0	2.50	0.3750	0.5000	25.0	26.0
30M-5N/S	3	-2.630	45.516	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	22.0	20.0
30M-4N/S	3	-2.865	45.519	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	19.0	23.0
30M-3N/S	3	-3.101	45.522	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	25.0	26.0
30M-2N/S	3	-3.337	45.525	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	22.0	20.0
30M-1N/S	4	-3.572	45.446	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	27.0	23.0
30B-0N/S	5	-3.728	15.010	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	27.0	27.0
30B-1N/S	4	-3.885	45.451	36.0	2.00	80.00	1.500	36.0	3.00	0.3750	0.5000	23.0	27.0
30B-2N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	20.0	22.0
30B-3N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	26.0	25.0
30B-4N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
30B-5N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	20.0	22.0
30B-6N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	26.0	25.0
30B-7N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	3.00	0.3750	0.5000	23.0	19.0
30B-8N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
30B-9N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	2.75	0.3750	0.5000	23.0	19.0
30B-10N/S	3	-3.998	45.536	36.0	1.50	80.50	1.250	36.0	3.25	0.3750	0.5000	23.0	19.0
30B-11N/S	2	-3.998	45.536	36.0	2.50	79.50	2.000	36.0	4.00	0.6875	0.5000	29.0	25.0
30B-12N/S	1	-3.998	83.150	36.0	2.50	79.50	2.000	36.0	3.50	0.6875	0.5000	6.00	25.0



SECTION A-A
SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS DRAWING WITH "LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPES" SHEETS.
2. EDGE GIRDER FLANGES AND WEB SHALL BE ASTM A709 HPS 70W STEEL.
3. ALL EDGE GIRDER PLATES, INCLUDING SPLICE PLATES AND STIFFENERS SHALL MEET THE CHARPY ZONE 2 TOUGHNESS REQUIREMENTS.
4. ALL EDGE GIRDERS (FULL BRIDGE LENGTH) ARE CONSIDERED SYSTEM REDUNDANT MEMBERS (SRM'S) AND SHALL BE FABRICACTED IN ACCORDANCE WITH AWS D1.5 CLAUSE 12.
5. GIRDER SLOPE AND LENGTH DIMENSIONS PROVIDED ARE IN THE FINAL, LONG-TERM STRESSED CONDITION AT DAY 10,000. GIRDERS SHALL BE FABRICATED WITH BOTH LENGTH AND VERTICAL CAMBER ADJUSTMENTS, TO BE PROVIDED BY THE ENGINEER. VERTICAL CAMBER CAN BE ACCOMODATED BY CHORDING / END CUTS FOR ALL FIELD SECTIONS EXCEPT 29/30B-12N/S. SHOP BUNKING OF 3 CONSECUTIVE GIRDERS REQUIRED TO VERIFY UNSTRESSED, CAMBERED PROFILE.
6. GIRDER WEBS SHALL BE PLUMB IN THE FINAL POSITION.
7. FLANGE PLATES SHALL BE UNIVERSAL MILL PLATE OR FLAME CUT FROM WIDER PLATE.
8. ALL PLATE CONNECTIONS SHALL BE SHOP WELDED. NO FIELD WELDING, EXCEPT FOR INSTALLATION OF SHEAR STUDS, WILL BE PERMITTED ON THE STRUCTURAL STEEL.
9. FOR SHEAR STUD CONNECTORS, SEE "STUD LAYOUT" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

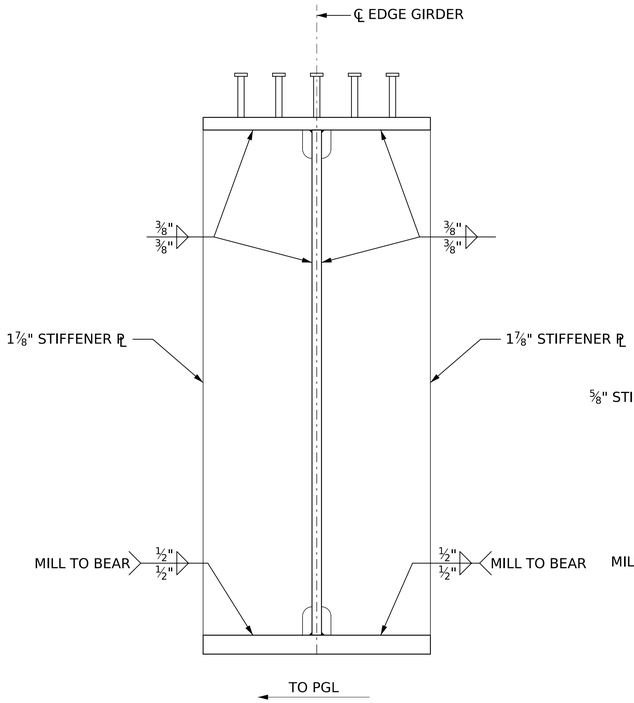
SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
PLATE SCHEDULE

MRB-S04-BR-40533.dgn
mrisip
3:13:46 PM
3/31/2025

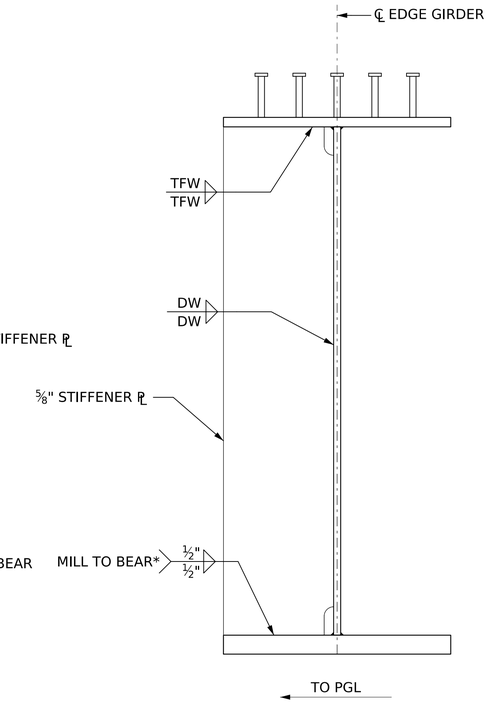
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40536

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

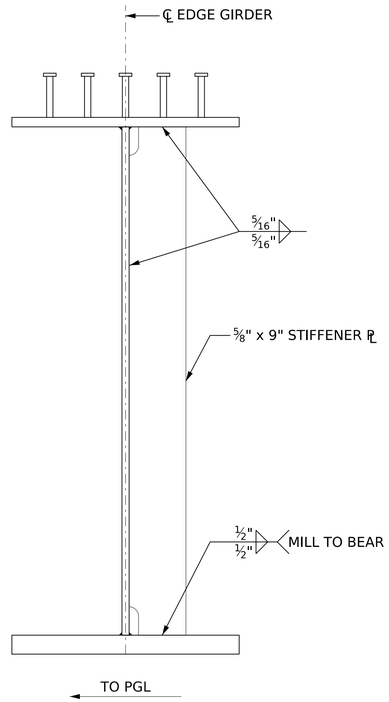
SHEET REFERENCE 0 1" 2"



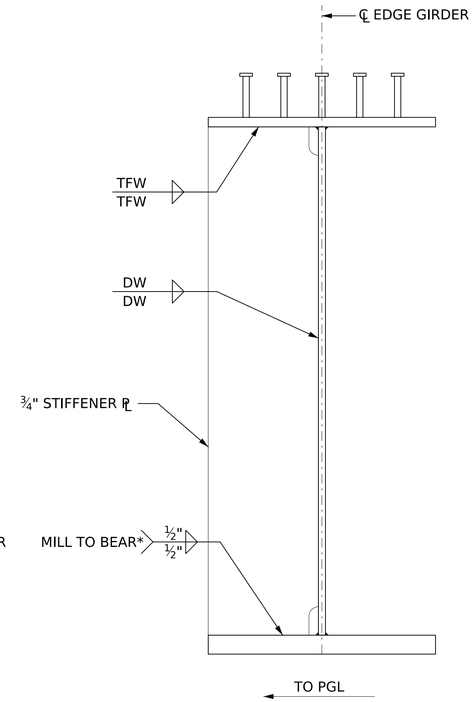
STIFFENER TYPE 1
SCALE: 1" = 1'-0"



STIFFENER TYPE 2
SCALE: 1" = 1'-0"
* MILL TO BEAR WHEN ADJACENT TO STIFFENER TYPE 2A ONLY



STIFFENER TYPE 2A
SCALE: 1" = 1'-0"



STIFFENER TYPE 3
SCALE: 1" = 1'-0"
* MILL TO BEAR WHEN ADJACENT TO STIFFENER TYPE 3B ONLY

TYPE 2 WELD SIZES		
FIELD SECTION	TFW	DW
29B-11N/S, 30B-11N/S	1/2"	3/8"
ALL OTHERS	5/16"	5/16"

TYPE 3 WELD SIZES		
FIELD SECTION	TFW	DW
29B-12N/S, 30B-12N/S	1/2"	3/8"
29B-11N/S, 30B-11N/S	1/2"	3/8"
29B-1N/S, 30B-1N/S	3/8"	5/16"
29M-1N/S, 30M-1N/S	3/8"	5/16"
ALL OTHERS	5/16"	5/16"

NOTES:

1. WORK THIS DRAWING WITH "LONGITUDINAL EDGE GIRDER - FIELD SECTION - TYPES" SHEETS.
2. ALL STIFFENER PLATE STEEL SHALL CONFORM TO ASTM A709 50W UNLESS NOTED OTHERWISE.
3. ALL PLATE CONNECTIONS SHALL BE SHOP WELDED.

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BRIDGE ENGINEER DATE

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QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

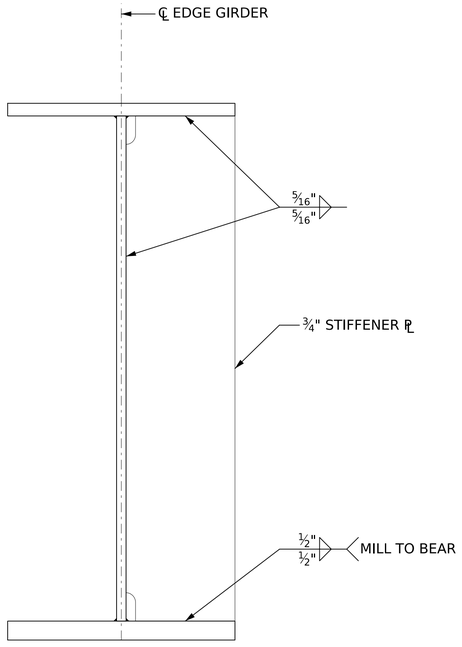
DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
STIFFENER PLATE DETAILS 1

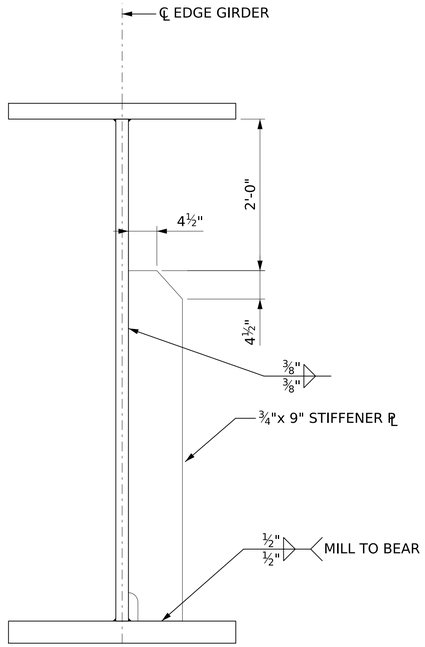
MRB-S04-BR-40536.dgn
rweibel
11:56:37 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40537

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



STIFFENER TYPE 3A
SCALE: 1" = 1'-0"



STIFFENER TYPE 3B
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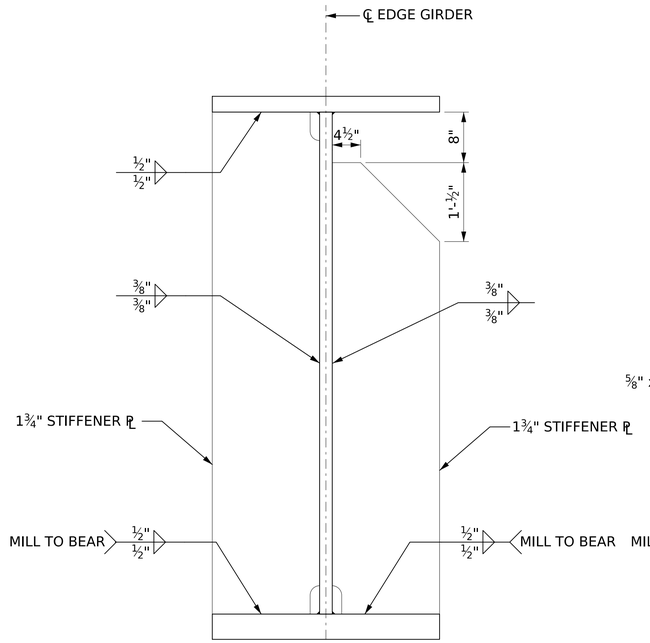
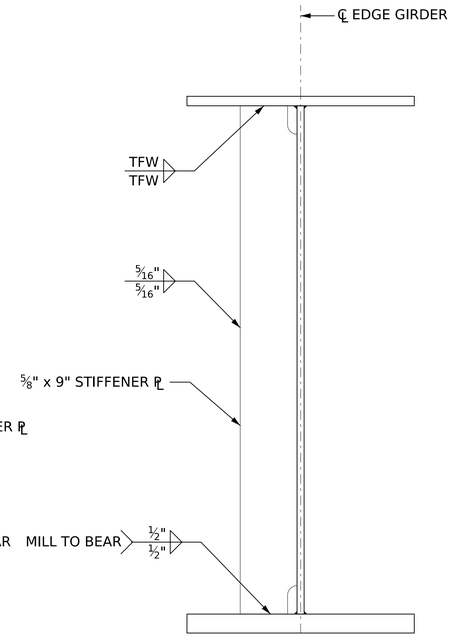


STIFFENER TYPE 4
SCALE: 1" = 1'-0"



STIFFENER TYPE 5
SCALE: 1" = 1'-0"

WELD SIZE SIZES	
FIELD SECTION	TFW
29B-1N/S, 30B-1N/S	⅜"
29B-0N/S, 30B-0N/S	⅜"
29M-1N/S, 30M-1N/S	⅜"
ALL OTHERS	5/16"

NOTES:

1. FOR NOTES, SEE "LONGITUDINAL EDGE GIRDER - STIFFENER PLATE DETAILS 1" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

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BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
STIFFENER PLATE DETAILS 2

MRB-S04-BR-40537.dgn
rweibel
11:56:45 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40538

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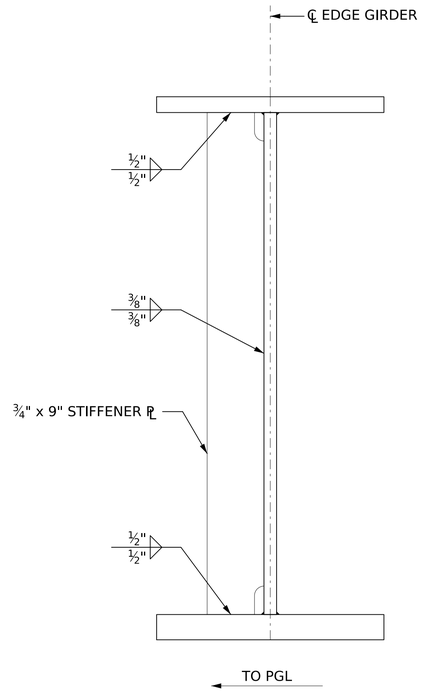
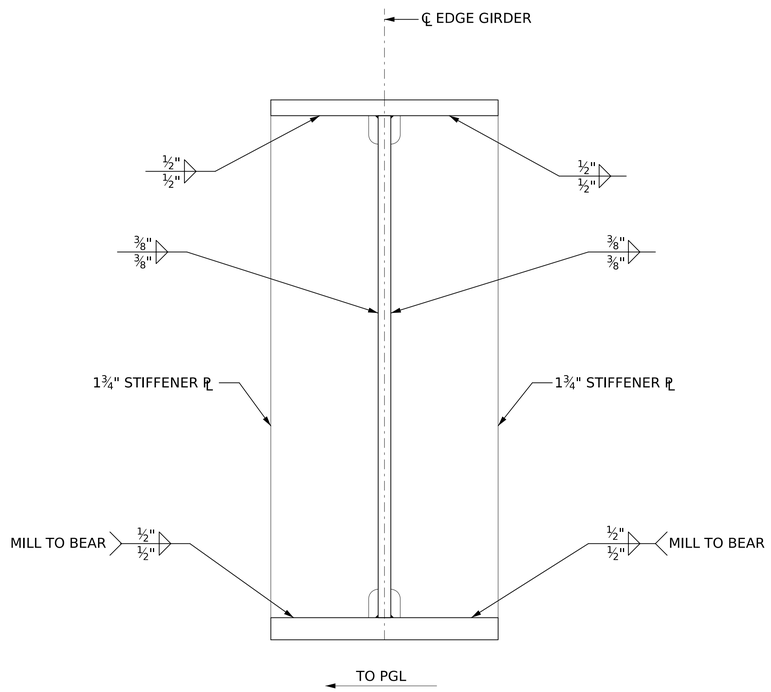


STIFFENER TYPE 6
SCALE: 1" = 1'-0"



STIFFENER TYPE 7
SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES, SEE "LONGITUDINAL EDGE GIRDER - SITFFENER PLATE DETAILS 1" SHEET.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

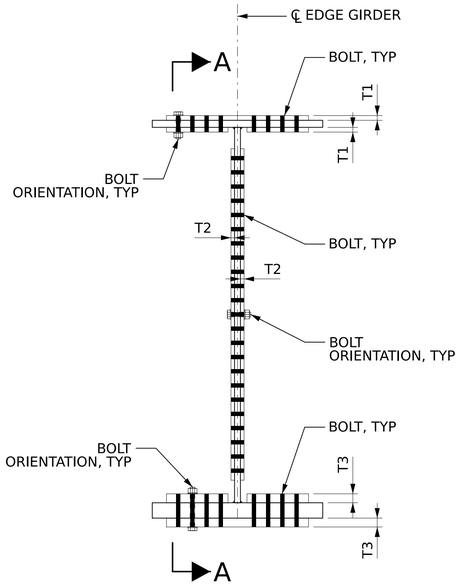
SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
STIFFENER PLATE DETAILS 3

MRB-S04-BR-40538.dgn
rweibel
11:56:53 AM
3/14/2025

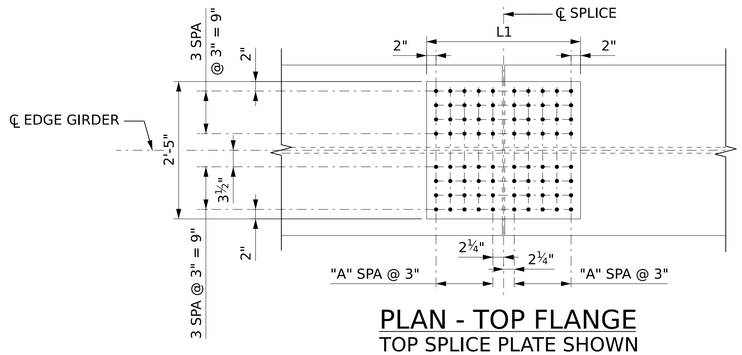
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40551

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

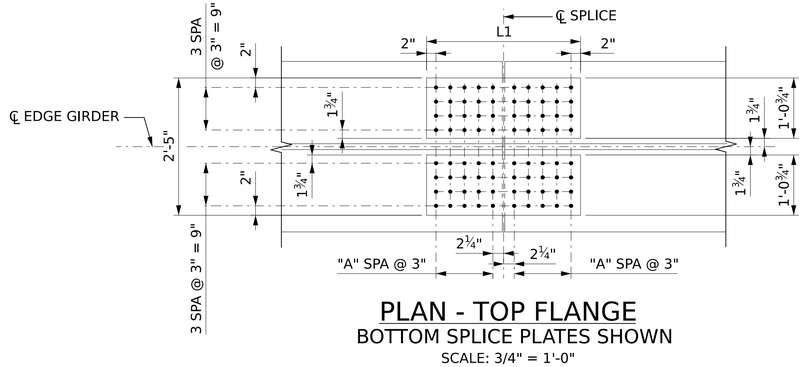
2" 1" 0 SHEET REFERENCE



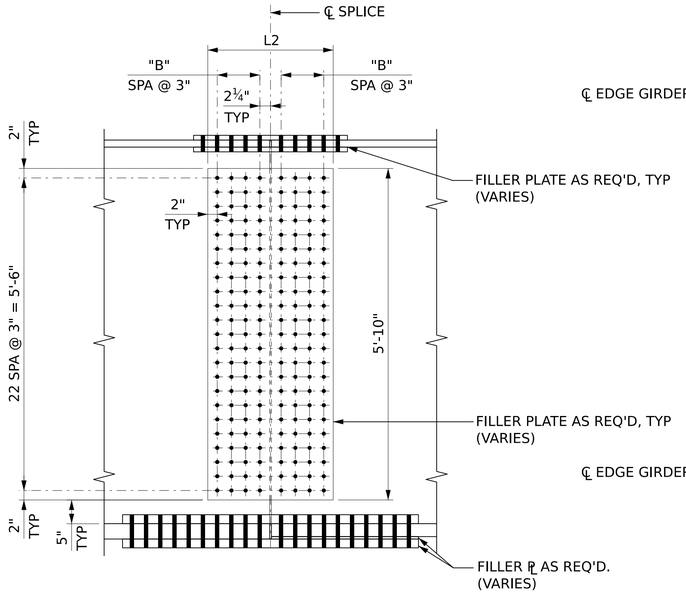
TYPICAL SECTION @ EG SPLICE
SCALE: 3/4" = 1'-0"



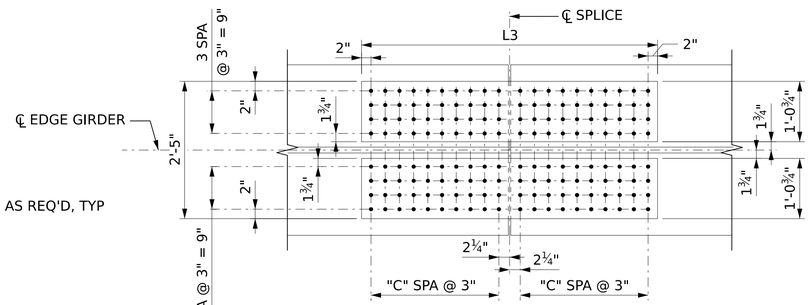
PLAN - TOP FLANGE
TOP SPLICE PLATE SHOWN
SCALE: 3/4" = 1'-0"



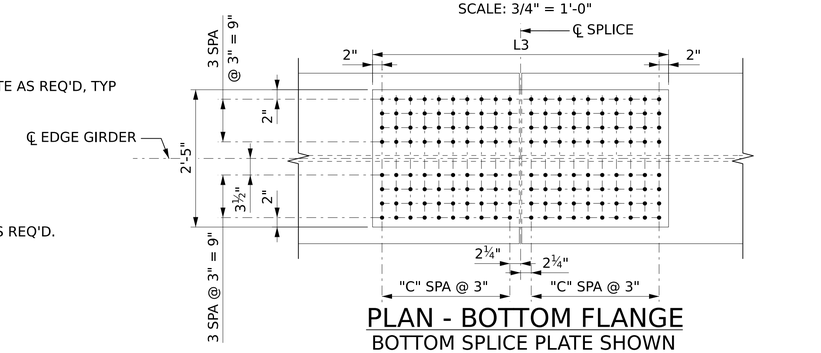
PLAN - TOP FLANGE
BOTTOM SPLICE PLATES SHOWN
SCALE: 3/4" = 1'-0"



ELEVATION A-A - TYPICAL EG SPLICE
SCALE: 3/4" = 1'-0"



PLAN - BOTTOM FLANGE
TOP SPLICE PLATES SHOWN
SCALE: 3/4" = 1'-0"



PLAN - BOTTOM FLANGE
BOTTOM SPLICE PLATE SHOWN
SCALE: 3/4" = 1'-0"

EDGE GIRDER FIELD SPLICE	TOP FLANGE PLATE AND BOLT DIMENSIONS			WEB PLATE AND BOLT DIMENSIONS			BOTTOM FLANGE PLATE AND BOLT DIMENSIONS		
	L1 (IN)	"A"	T1 (IN)	L2 (IN)	"B"	T2 (IN)	L3 (IN)	"C"	T3 (IN)
FS29B-12N/S	44.5	6	2.000	26.5	3	1.875	68.5	10	2.750
FS29B-11N/S	38.5	5	1.250	20.5	2	1.875	68.5	10	2.625
FS29B-10N/S	32.5	4	1.250	14.5	1	1.250	56.5	8	2.250
FS29B-9N/S	32.5	4	1.250	38.5	5	1.250	50.5	7	2.250
FS29B-8N/S	32.5	4	1.250	32.5	4	1.250	56.5	8	2.250
FS29B-7N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.375
FS29B-6N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.250
FS29B-5N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.250
FS29B-4N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.250
FS29B-3N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.375
FS29B-2N/S	38.5	5	1.250	50.5	7	1.500	56.5	8	2.375
FS29B-1N/S	38.5	5	1.625	50.5	7	1.500	62.5	9	2.500
FS29M-1N/S	38.5	5	1.625	50.5	7	1.500	62.5	9	2.500
FS29M-2N/S	38.5	5	1.250	50.5	7	1.500	56.5	8	2.375
FS29M-3N/S	32.5	4	1.250	44.5	6	1.250	56.5	8	2.375
FS29M-4N/S	32.5	4	1.250	38.5	5	1.250	56.5	8	2.250
FS29M-5N/S	32.5	4	1.250	38.5	5	1.250	50.5	7	2.250
FS29M-6N/S	32.5	4	1.250	32.5	4	1.250	50.5	7	2.125
FS29M-7N/S	32.5	4	1.250	32.5	4	1.250	50.5	7	2.000
FS29M-8N/S	32.5	4	1.250	32.5	4	1.250	44.5	6	2.000
FS29M-9N/S	32.5	4	1.250	32.5	4	1.250	44.5	6	2.000
FS29M-10N/S	32.5	4	1.250	26.5	3	1.250	44.5	6	2.000
FS29M-11N/S	32.5	4	1.250	26.5	3	1.250	44.5	6	2.000
FS29M-12N/S	32.5	4	1.250	20.5	2	1.250	44.5	6	2.000
FS29M-13N/S	32.5	4	1.250	20.5	2	1.250	50.5	7	2.000
FS29M-14N/S	32.5	4	1.250	14.5	1	1.125	56.5	8	2.250
FS29M-15N/S	32.5	4	1.250	14.5	1	1.125	68.5	10	2.625
FS29M-16N/S	32.5	4	1.250	26.5	3	1.125	68.5	10	2.750

FS29 SPLICES SHOWN, FS30 SPLICES SIMILAR.

NOTES:

1. SPLICE AND FILLER PLATES SHALL BE ASTM A709 HPS 70W STEEL.
2. SPLICES SHALL BE BOLTED WITH 1" DIAMETER ASTM F3125 GRADE A490 HIGH STRENGTH BOLTS IN $1\frac{1}{8}$" DIAMETER HOLES.
3. ALL SPLICE FAYING SURFACES FURNISHED WITH CLASS B SURFACE CONDITION.
4. HOLES SHALL BE DRILLED FULL SIZE OR SUBPUNCHED AND REAMED TO SIZE.
5. BOLT THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANES.
6. BOLTS, NUTS AND WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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BIN(S)
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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

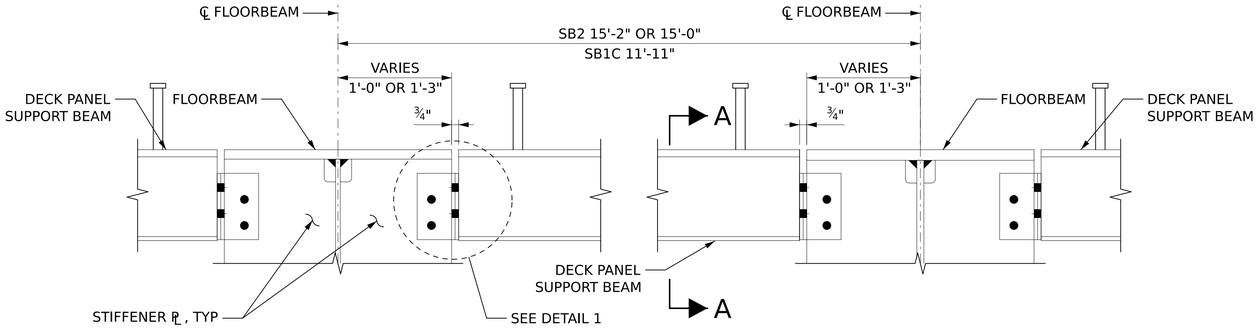
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
LONGITUDINAL EDGE GIRDER
FIELD SPLICE DETAILS

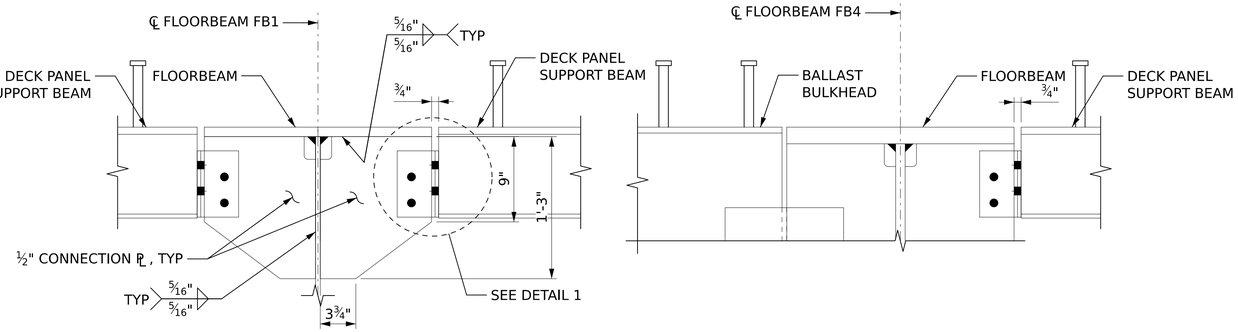
MRB-S04-BR-40551.dgn
rweibel
11:57:01 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40561

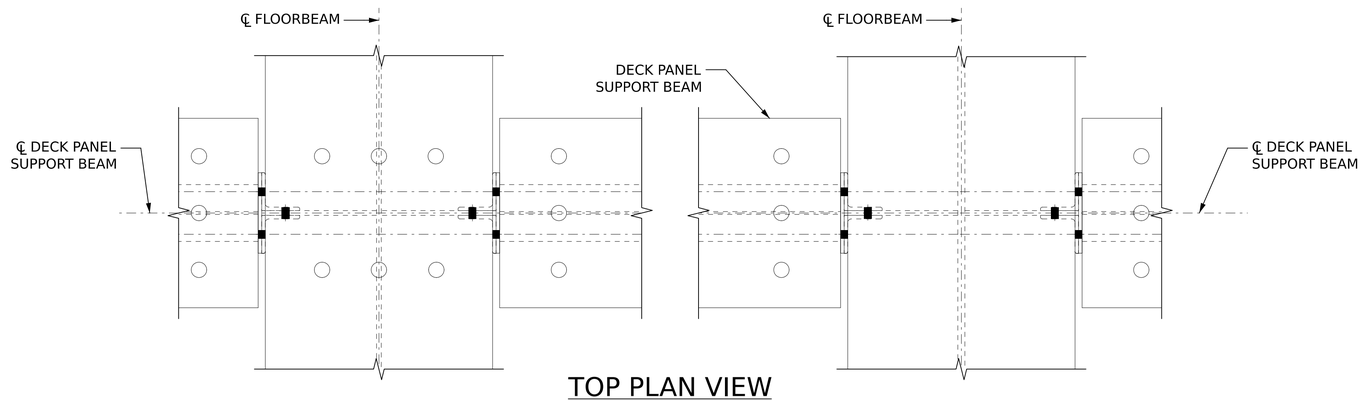
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



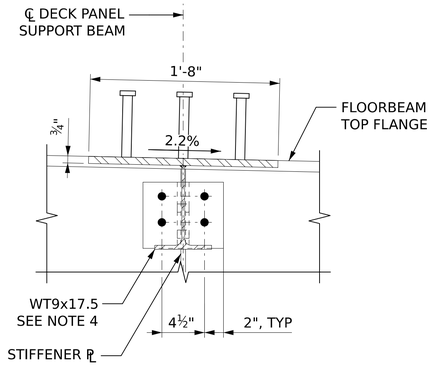
LONGITUDINAL ELEVATION
SCALE: 1 1/2" = 1'-0"



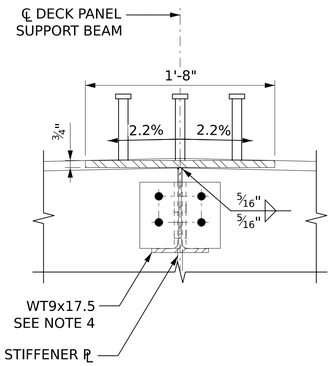
LONGITUDINAL ELEVATION
SCALE: 1 1/2" = 1'-0"



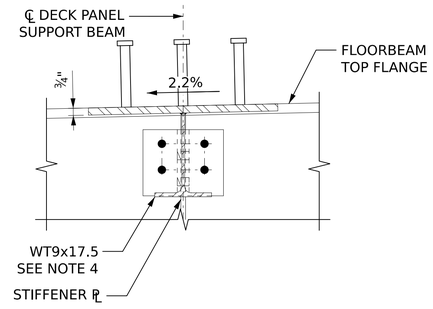
TOP PLAN VIEW
SCALE: 1 1/2" = 1'-0"



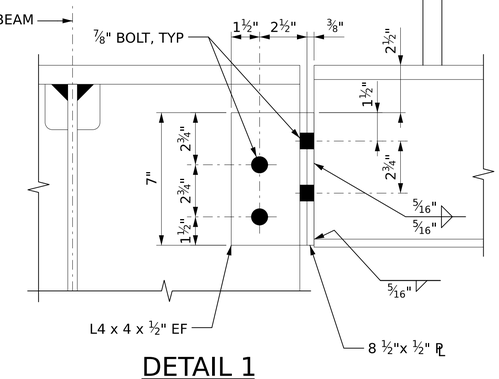
SECTION A-A
SCALE: 1 1/2" = 1'-0"
(SOUTH SUPPORT BEAMS SB2S, SB1S, LOOKING UPSTATION)



SECTION A-A
SCALE: 1 1/2" = 1'-0"
(CENTER SUPPORT BEAMS SB2C, SB1C)



SECTION A-A
SCALE: 1 1/2" = 1'-0"
(NORTH SUPPORT BEAMS SB2N, SB1N, LOOKING UPSTATION)



DETAIL 1
SCALE: 3" = 1'-0"

NOTES:

1. STIFFENER TO WEB WELD SHALL BE TERMINATED AT 1" ± ¼" FROM CLIP. STIFFENER TO FLANGE WELDS SHALL BE TERMINATED ½" ± ¼" FROM THE CLIP AND THE EDGES OF THE STIFFENER PLATE.
2. STEEL SHALL CONFORM TO ASTM A709 GRADE 50W.
3. FOR SHEAR STUD CONNECTORS, SEE "STUD LAYOUT" SHEETS.
4. THE WT 9x17.5 SECTION MAY BE MADE FROM A W18x35 SECTION SPLIT ALONG THE CENTERLINE. A LOSS OF NOT MORE THAN 1/16" FROM THE HEIGHT OF THE STEM IS PERMISSIBLE.
5. ALL BOLTS ARE TO BE ⅞" DIAMETER BOLTS CONFORMING TO ASTM A325 TYPE 3 UNLESS OTHERWISE NOTED.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

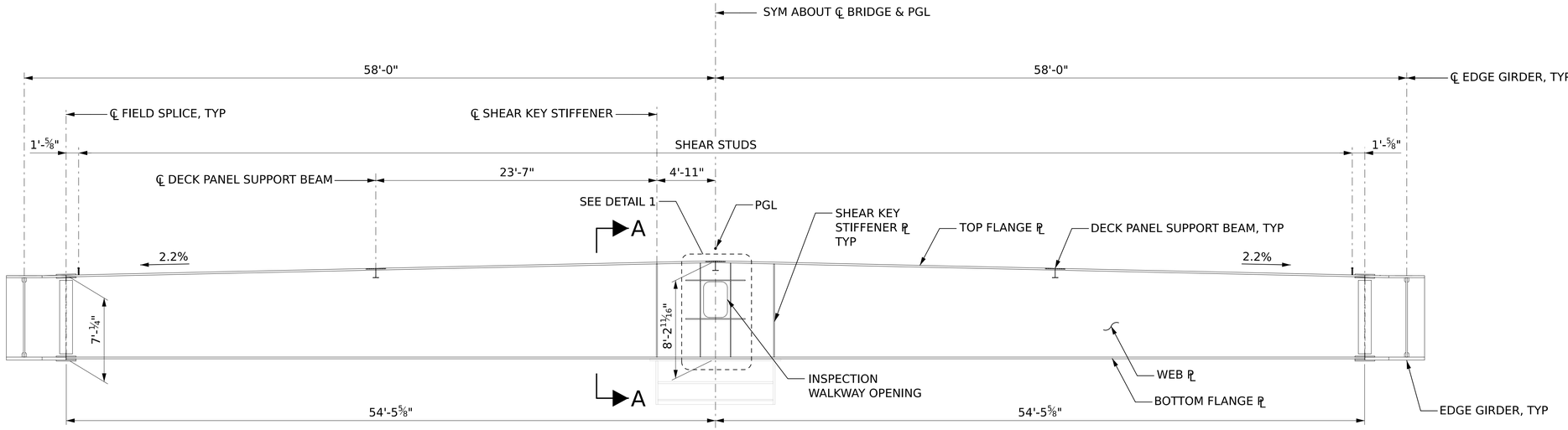
SHEET TITLE
MAIN SPAN BRIDGE
DECK PANEL SUPPORT BEAM
DETAILS 1

MRB-S04-BR-40561.dgn
rweibel
11:57:09 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40571

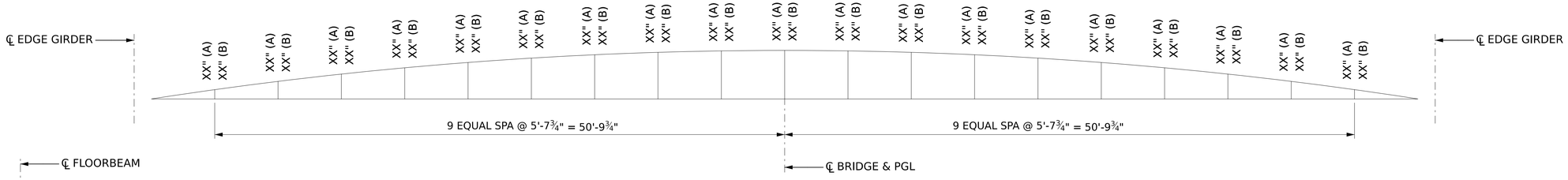
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



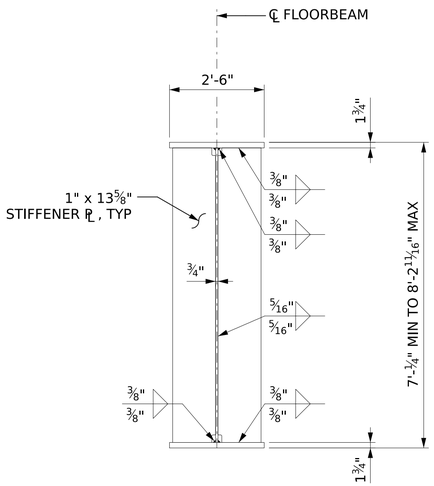
FLOORBEAM TYPE FB1 - ELEVATION

SCALE: 3/16" = 1'-0"



FLOORBEAM - CAMBER

SCALE: NTS



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 1" SHEET.
4. FOR SHEAR KEY, SEE "PYLON P29 & P30 TRANSVERSE SHEAR KEY - DETAILS" SHEET.

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A	SIBT	04/04/2025	60% SUBMITTAL

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60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

TRANSVERSE FLOORBEAM

TYPE FB1

MRB-S04-BR-40571.dgn rweibel 11:57:16 AM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40572

PRELIMINARY
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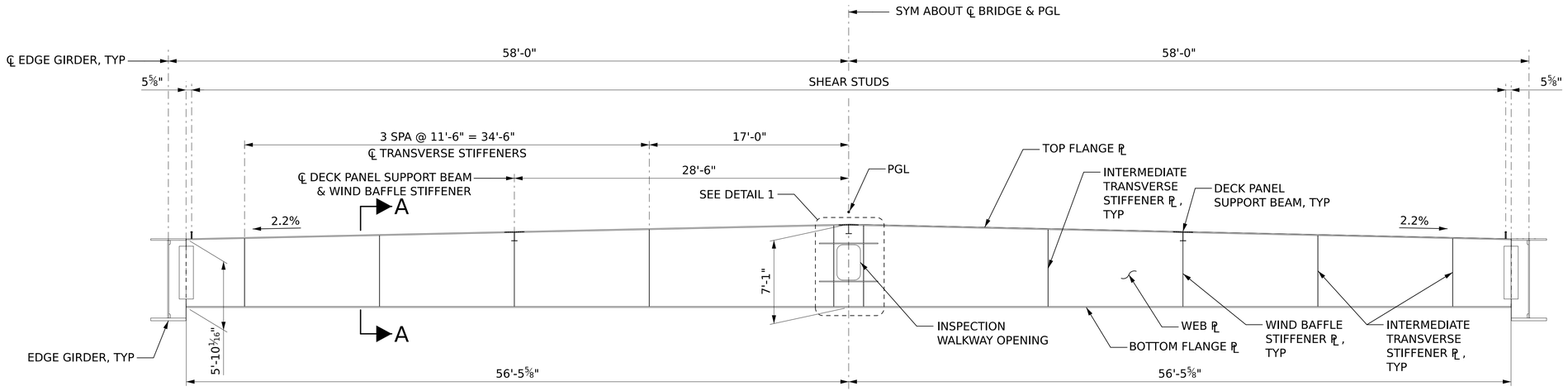
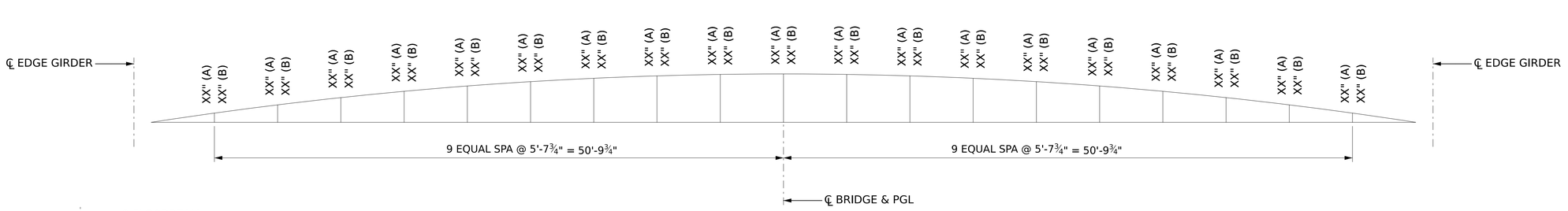


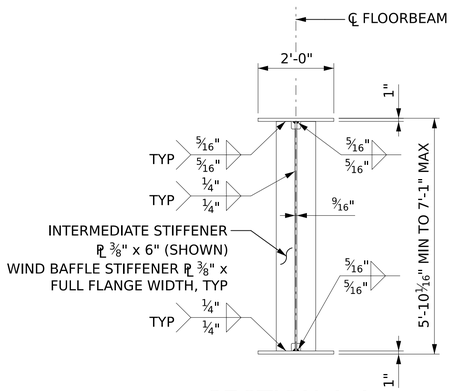
FLOORBEAM TYPE FB2 - ELEVATION

SCALE: 3/16" = 1'-0"



FLOORBEAM - CAMBER

SCALE: NTS



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. ALL FLOORBEAM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50W.
2. FLANGE PLATES SHALL BE UNIVERSAL MILL PLATE OR FLAME CUT FROM WIDER PLATE.
3. ALL PLATE CONNECTIONS SHALL BE SHOP WELDED. NO FIELD WELDING, EXCEPT FOR INSTALLATION OF SHEAR STUDS, WILL BE PERMITTED ON THE STRUCTURAL STEEL.
4. FOR SHEAR STUD CONNECTORS, SEE "STUD LAYOUT" SHEETS.
5. FOR WIND BAFFLE STIFFENERS, SEE "WIND BAFFLE - DETAILS" SHEETS.
6. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
7. FOR FIELD SPLICES, SEE " TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
TYPE FB2

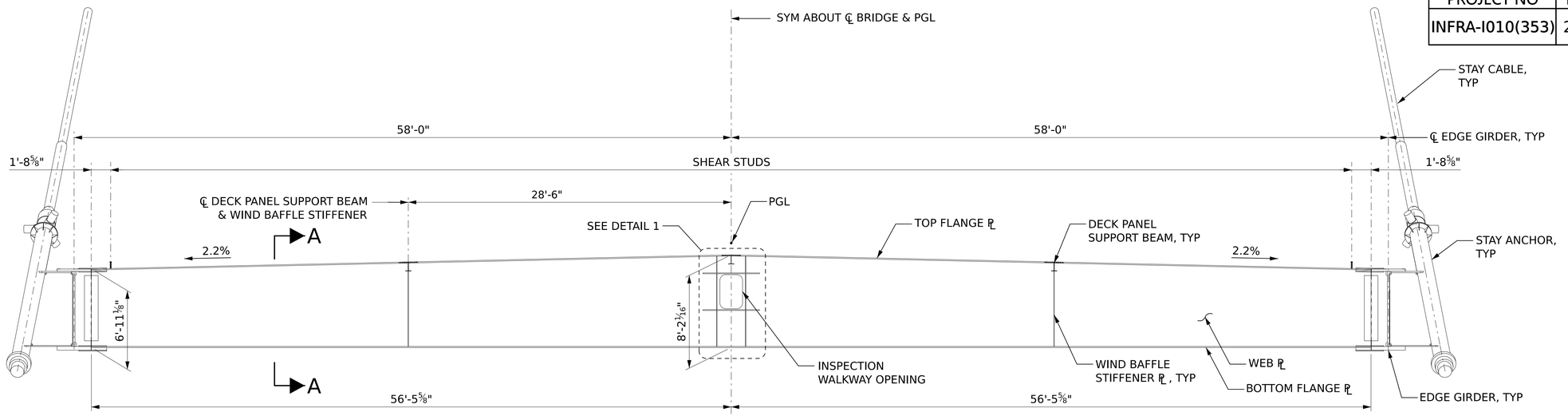
MRB-S04-BR-40572.dgn
nweibel
11:57:23 AM
3/14/2025

1" SHEET REFERENCE 0 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40573

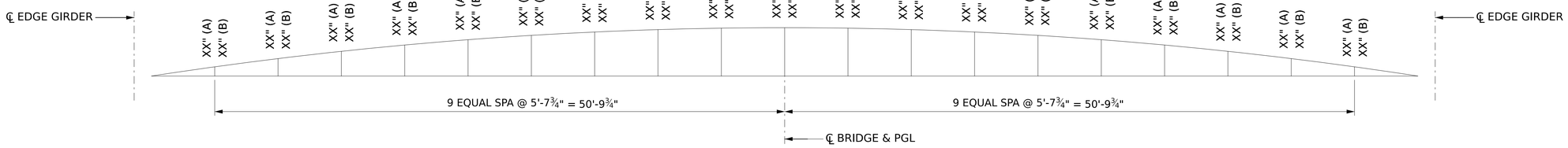
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2" 1" 0 SHEET REFERENCE



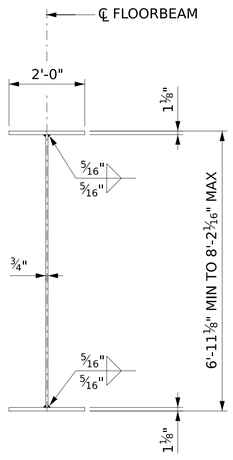
FLOORBEAM TYPE FB3 - ELEVATION

SCALE: 3/16" = 1'-0"



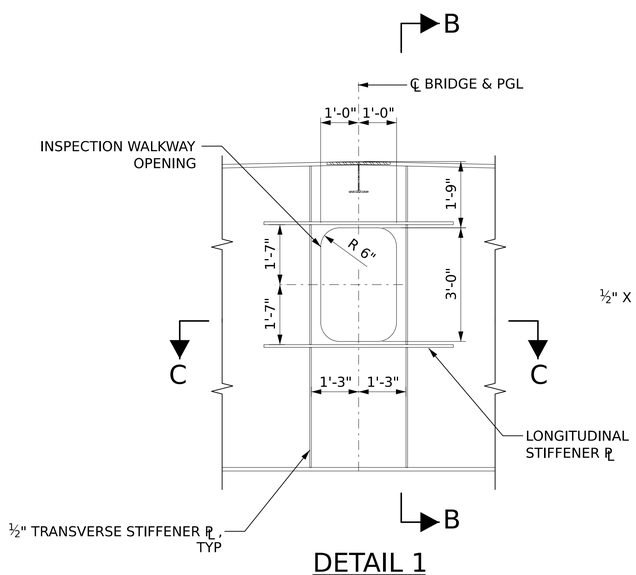
FLOORBEAM - CAMBER

SCALE: NTS



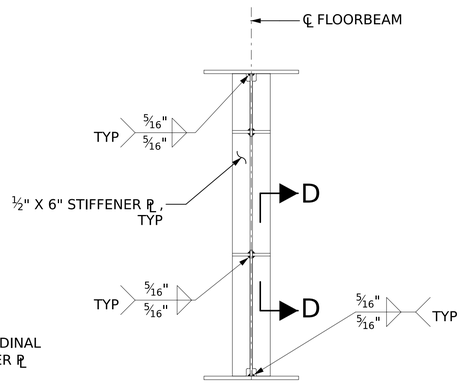
SECTION A-A

SCALE: 1/2" = 1'-0"



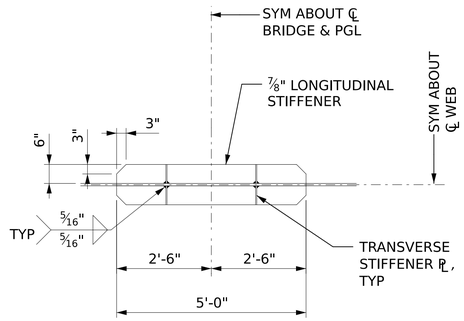
DETAIL 1

SCALE: 1/2" = 1'-0"



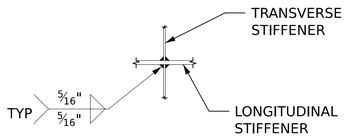
SECTION B-B

SCALE: 1/2" = 1'-0"



SECTION C-C

SCALE: 1/2" = 1'-0"



SECTION D-D

SCALE: NTS

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR WIND BAFFLE STIFFENERS, SEE "WIND BAFFLE - DETAILS" SHEETS.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 3" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
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Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

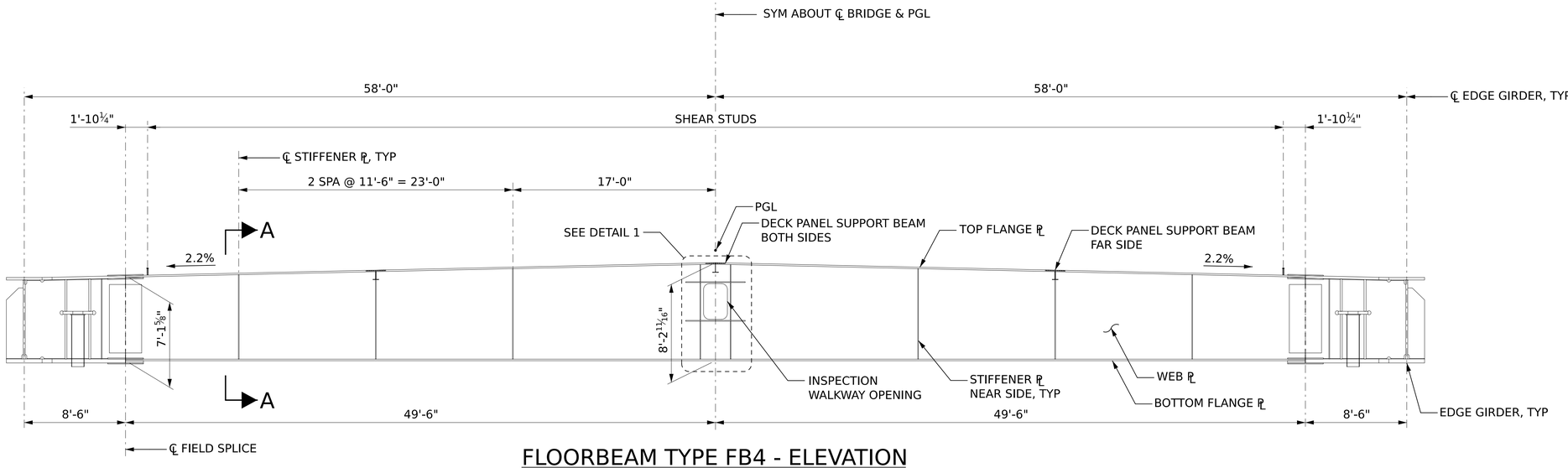
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
TYPE FB3

MRB-S04-BR-40573.dgn
mrisip
3:21:51 PM
3/31/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40574

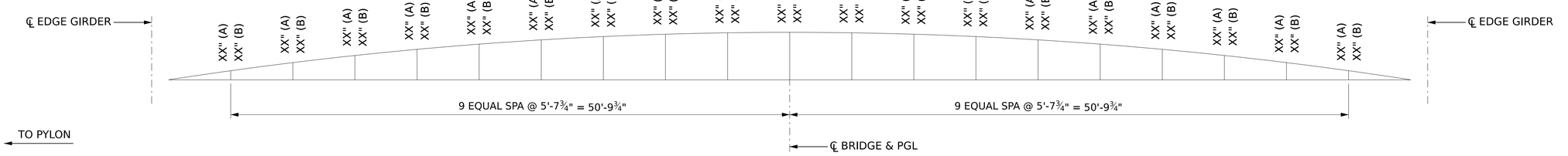
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



FLOORBEAM TYPE FB4 - ELEVATION

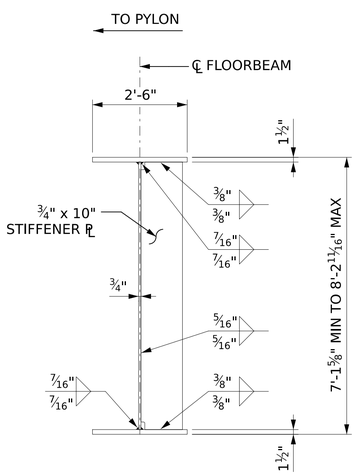
SCALE: 3/16" = 1'-0"

(LOOKING TOWARD PYLON)



FLOORBEAM - CAMBER

SCALE: NTS



SECTION A-A

SCALE: 1/2" = 1'-0"

(BETWEEN FIELD SPLICES)

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 4" (UNDER DEVELOPMENT) SHEET.
4. FOR TIE DOWNS, SEE "PIER P28 & P31 TIE-DOWN - DETAILS" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

TRANSVERSE FLOORBEAM

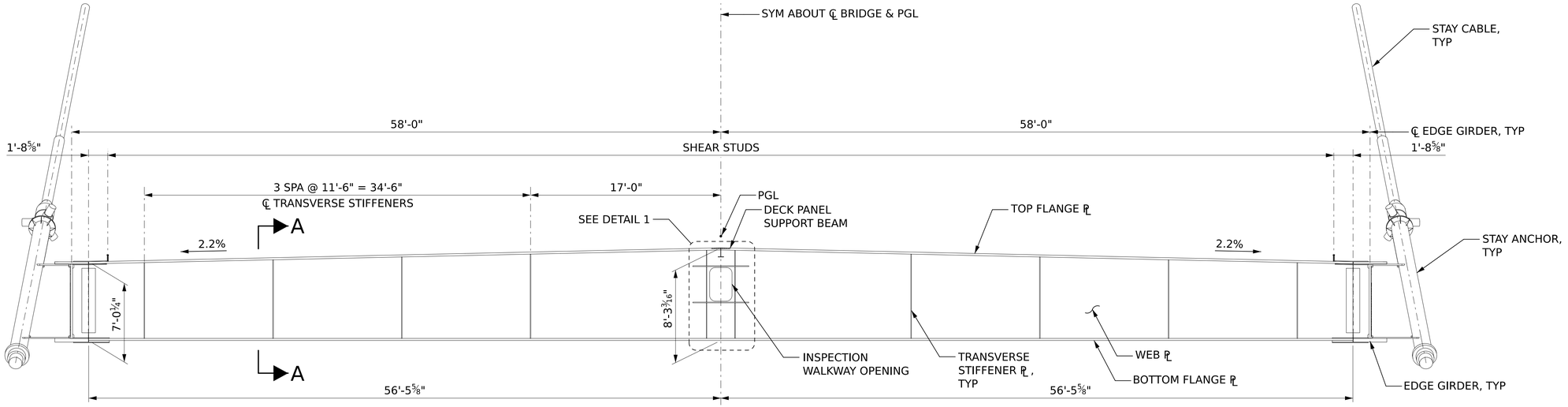
TYPE FB4

MRB-S04-BR-40574.dgn rweibel 11:57:38 AM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40575

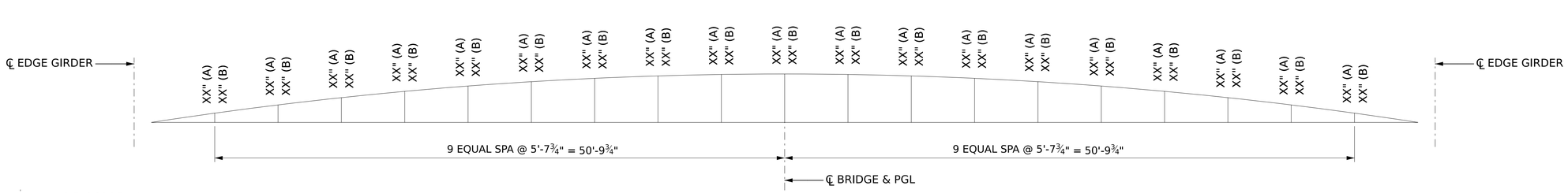
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



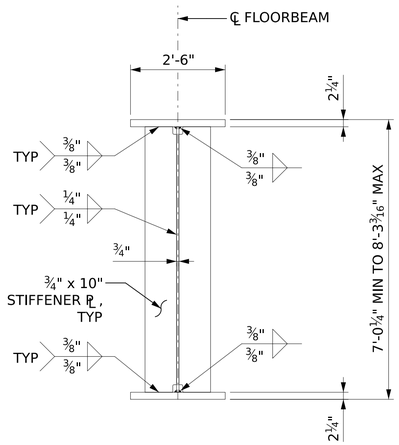
FLOORBEAM TYPE FB5 - ELEVATION

SCALE: 3/16" = 1'-0"



FLOORBEAM - CAMBER

SCALE: NTS



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 5 & 6" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

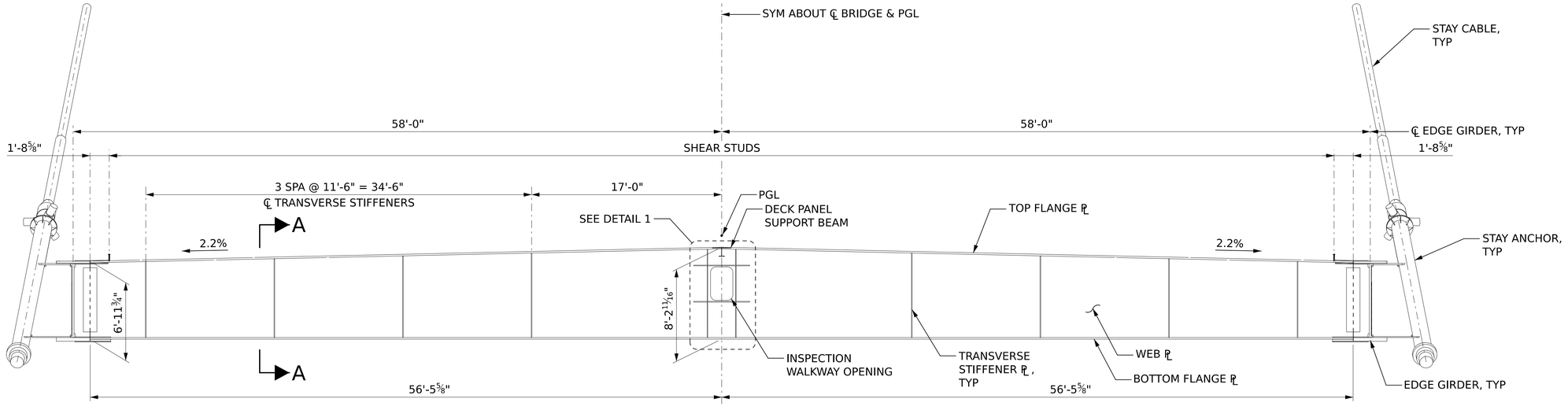
DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
TYPE FB5

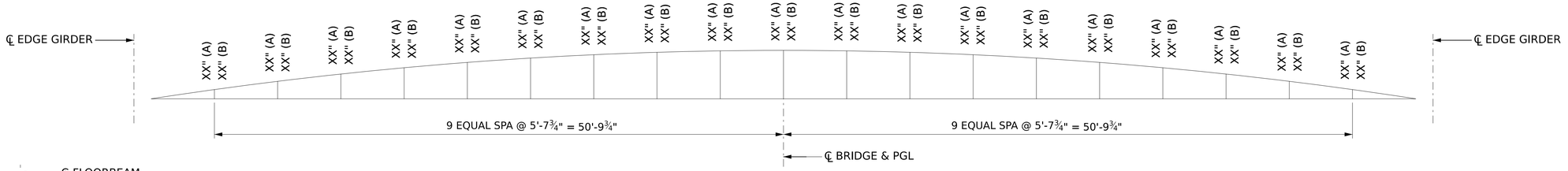
MRB-S04-BR-40575.dgn
rweibel
11:57:46 AM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40576



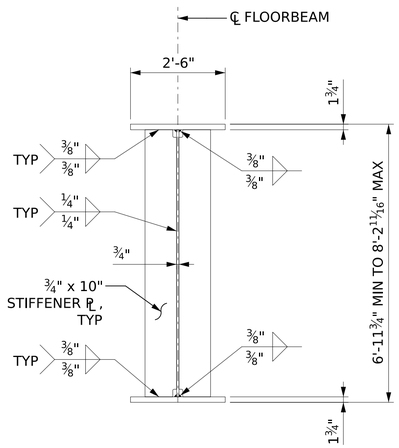
FLOORBEAM TYPE FB6 - ELEVATION

SCALE: 3/16" = 1'-0"



FLOORBEAM - CAMBER

SCALE: NTS



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 5 & 6" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

TRANSVERSE FLOORBEAM

TYPE FB6

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40576.dgn

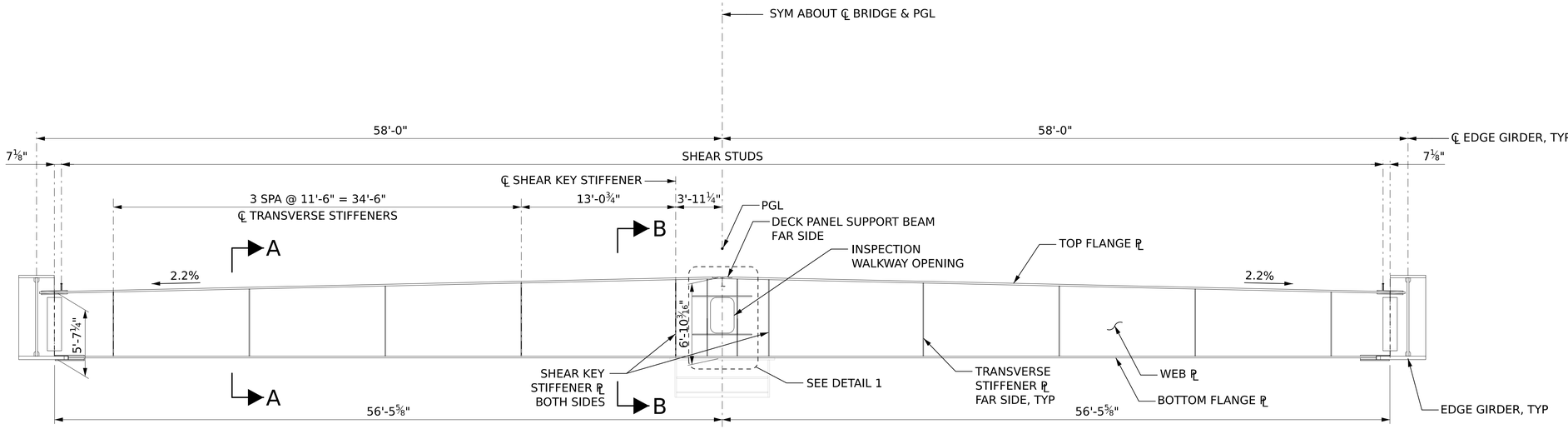
rweibel

11:57:53 AM

3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40577

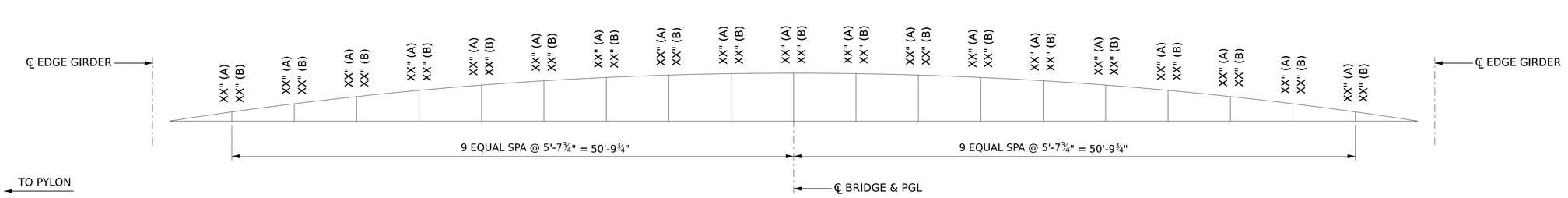
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



FLOORBEAM TYPE FB7 - ELEVATION

SCALE: 3/16" = 1'-0"

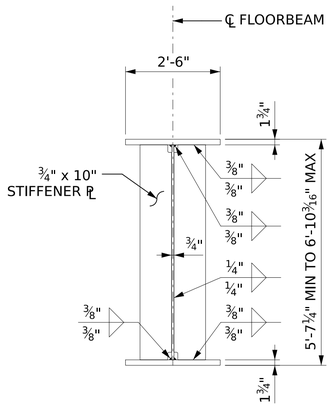
(LOOKING TOWARD PYLON)



FLOORBEAM - CAMBER

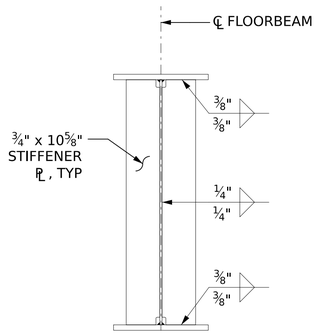
SCALE: NTS

TO PYLON



SECTION A-A

SCALE: 1/2" = 1'-0"



SECTION B-B

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - TYPE FB2" SHEET.
2. FOR DETAIL 1, SEE "TRANSVERSE FLOORBEAM - TYPE FB3" SHEET.
3. FOR FIELD SPLICES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 7" SHEET.
4. FOR SHEAR KEY, SEE "PIER P27 & P32 TRANSVERSE SHEAR KEY - DETAILS" SHEET.
5. FOR EXPANSION JOINT, SEE "EXPANSION JOINT - DETAILS" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

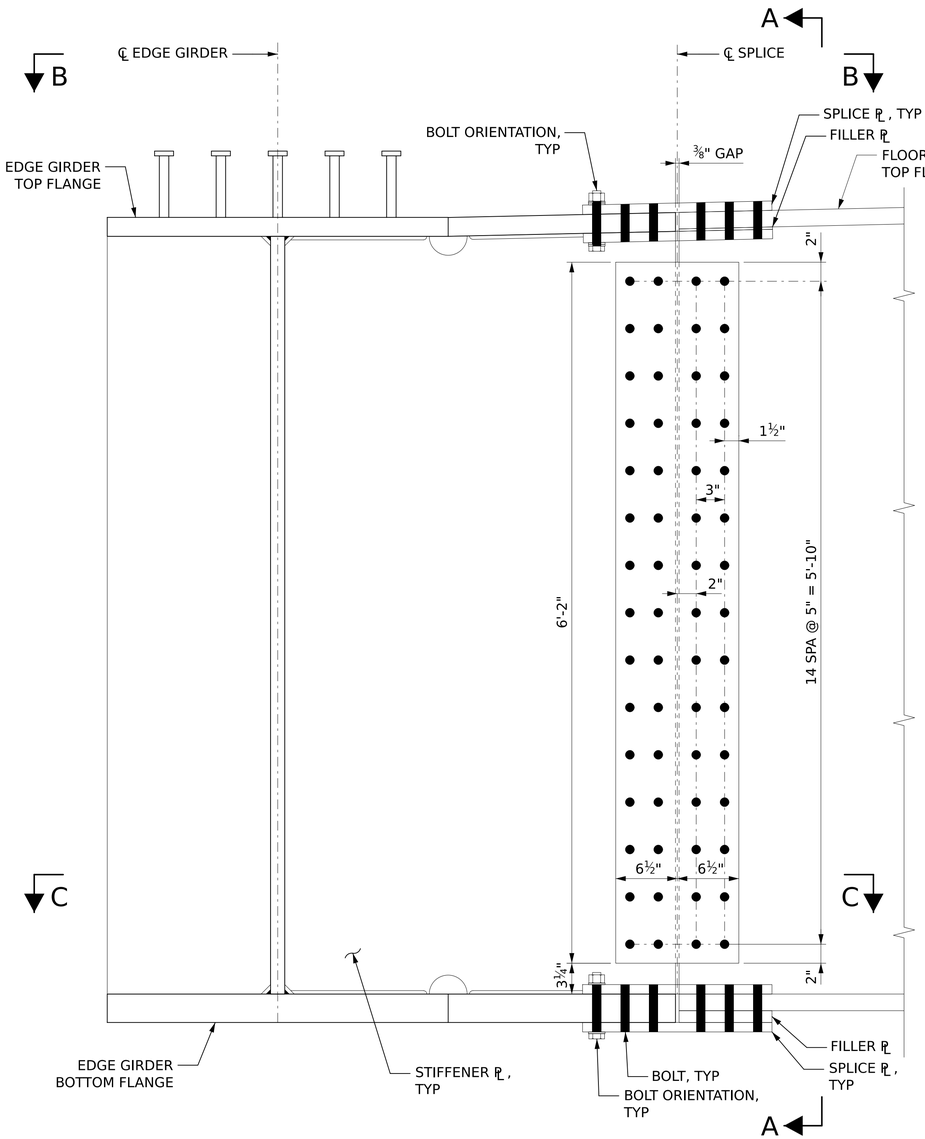
TRANSVERSE FLOORBEAM

TYPE FB7

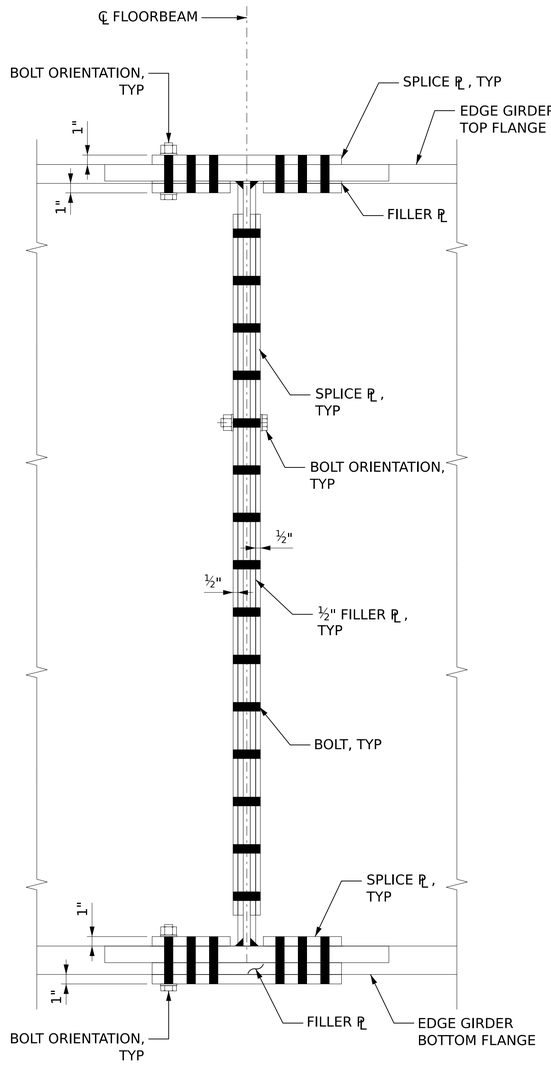
MRB-S04-BR-40577.dgn rweibel 11:58:01 AM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40580

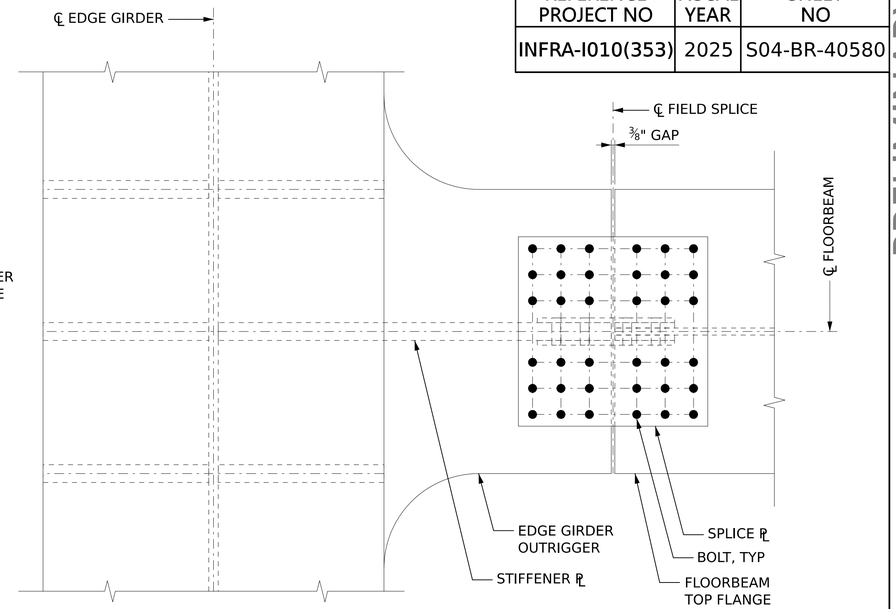
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



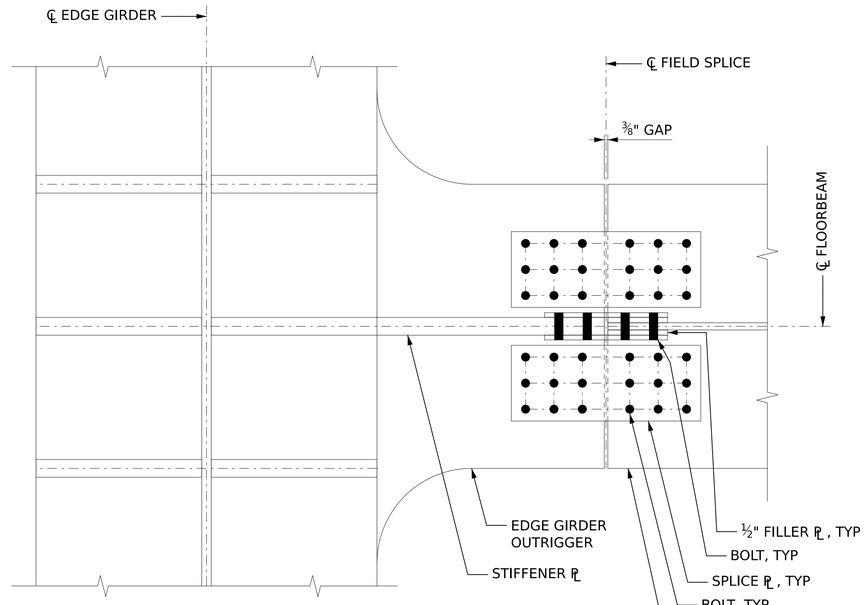
FLOORBEAM SPLICE TYPE 1
SCALE: 1 1/2" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1 1/2" = 1'-0"



SECTION C-C
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

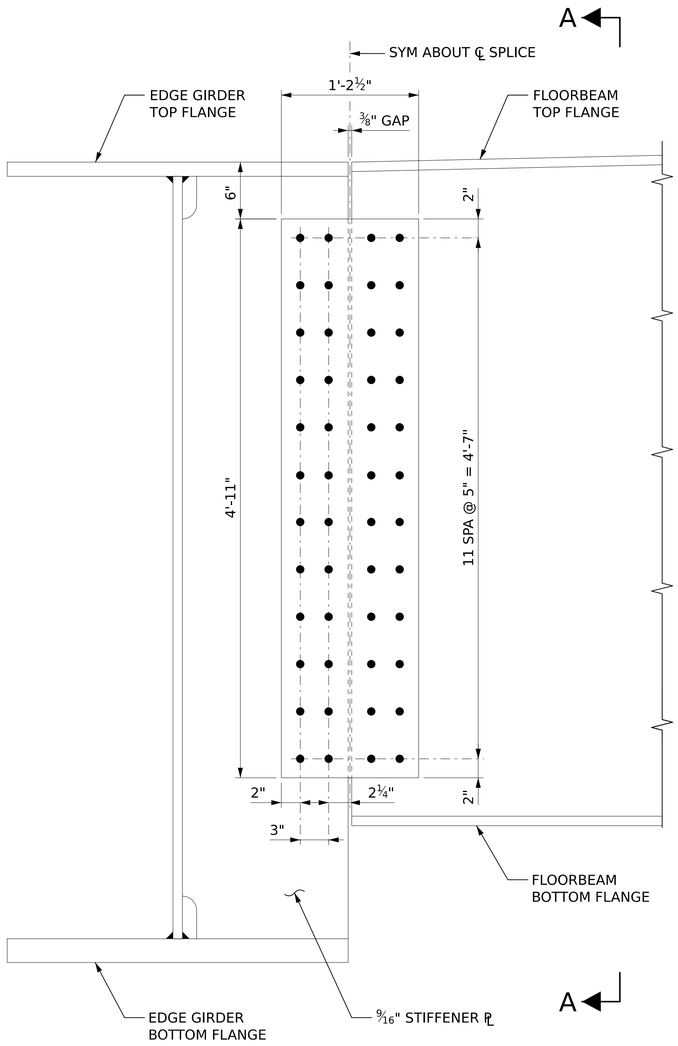
SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
FIELD SPLICE TYPE 1

MRB-S04-BR-40580.dgn
rweibel
11:58:09 AM
3/14/2025

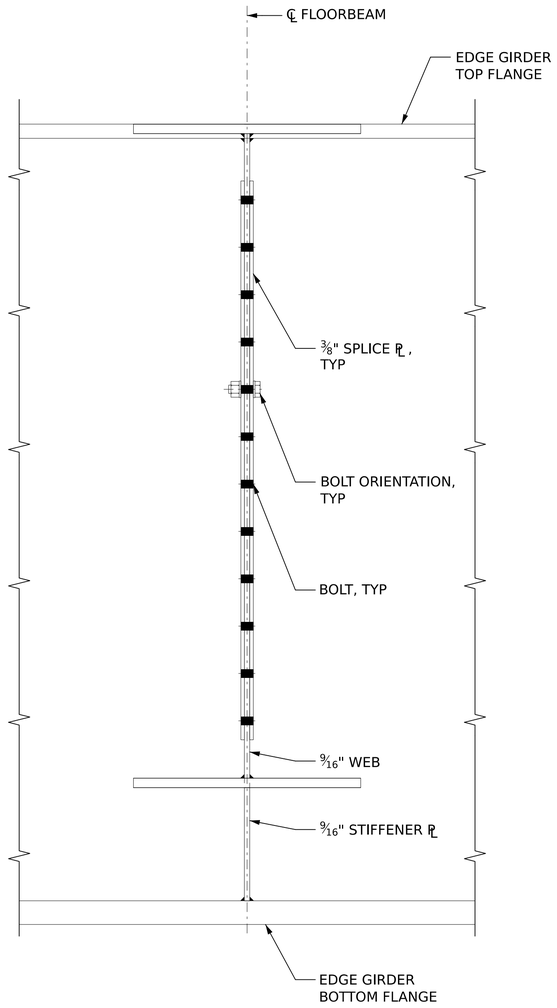
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40581

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



FLOORBEAM SPLICE TYPE 2
SCALE: 1 1/2" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"

NOTES:

1. SPLICE AND FILLER PLATES SHALL BE ASTM A709 GRADE 50W.
2. SPLICES SHALL BE BOLTED WITH 1" DIAMETER ASTM F3125 GRADE A490 HIGH STRENGTH BOLTS IN 1⅛" DIAMETER HOLES.
3. HOLES SHALL BE DRILLED FULL SIZE OR SUBPUNCHED AND REAMED TO SIZE.
4. BOLT THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANES.
5. BOLTS, NUTS AND WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOOR BEAM
FIELD SPLICE TYPE 2

MRB-S04-BR-40581.dgn
rweibel
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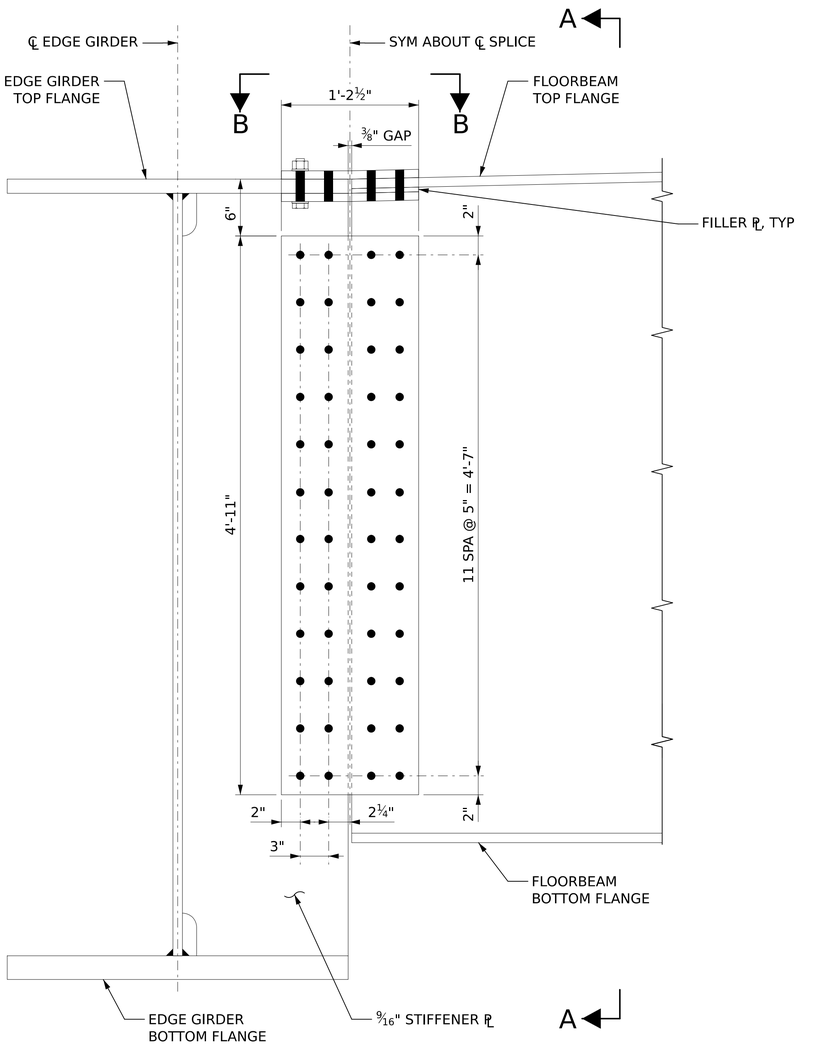
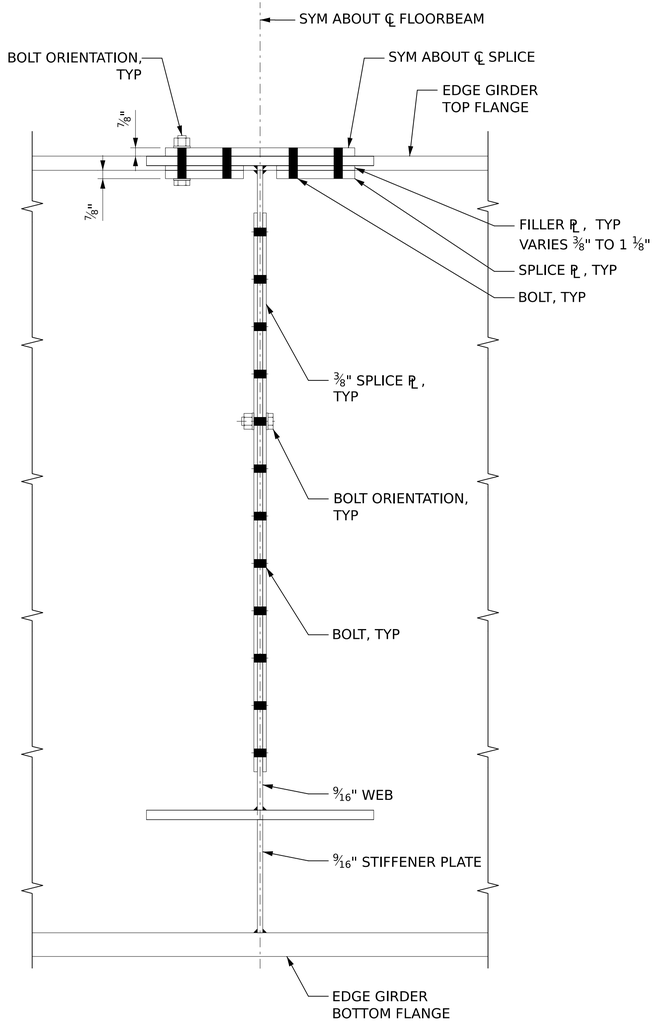
3/14/2025

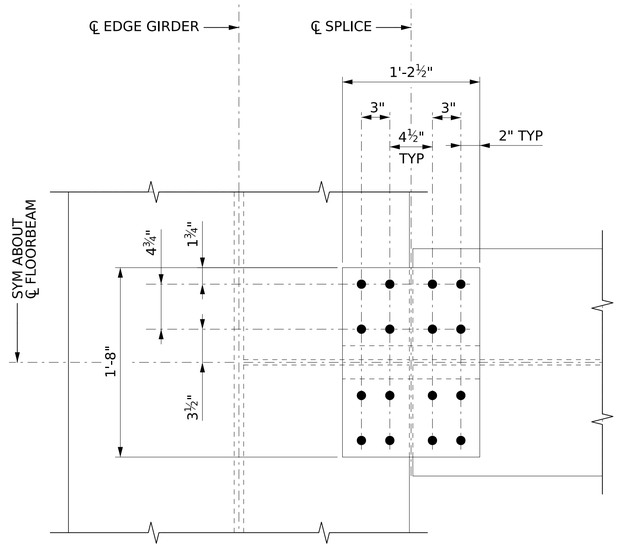
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40582



FLOORBEAM SPLICE TYPE 2A
SCALE: 1 1/2" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

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BRIDGE ENGINEER DATE

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOOR BEAM
FIELD SPLICE TYPE 2A

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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rweibel
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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40583

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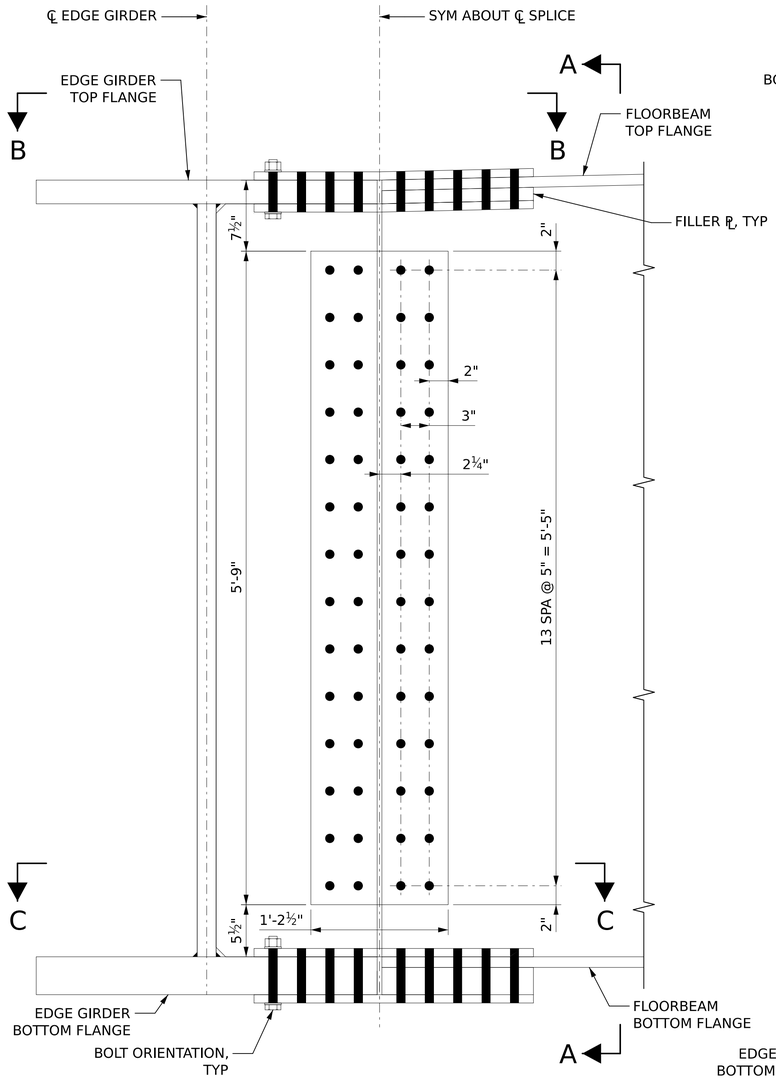

FLOORBEAM SPLICE TYPE 3
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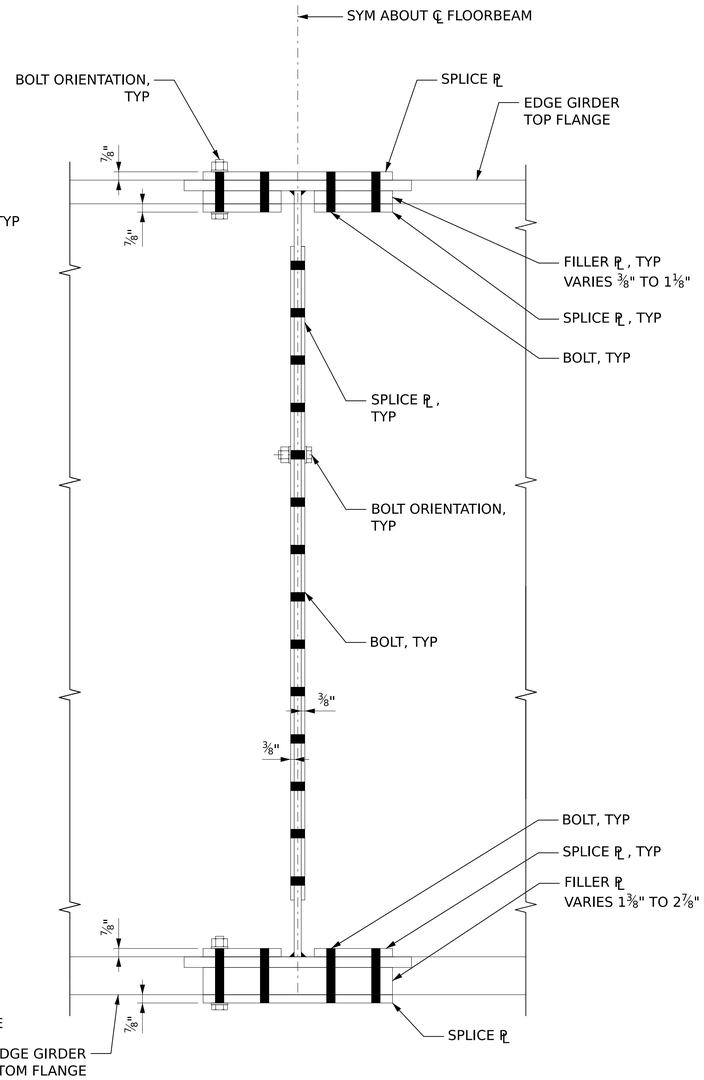
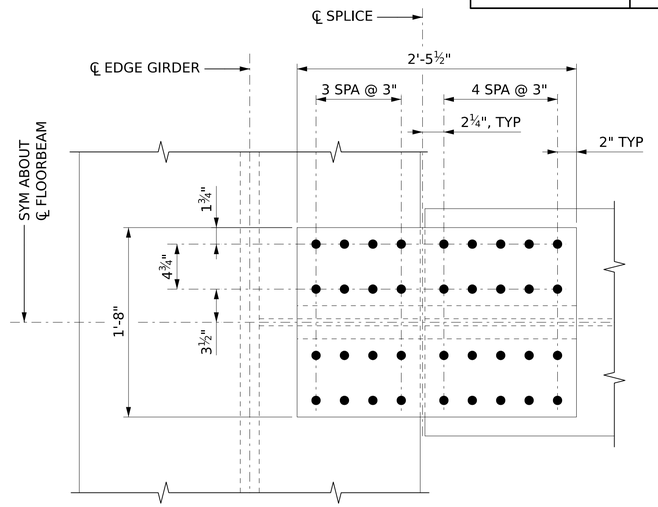
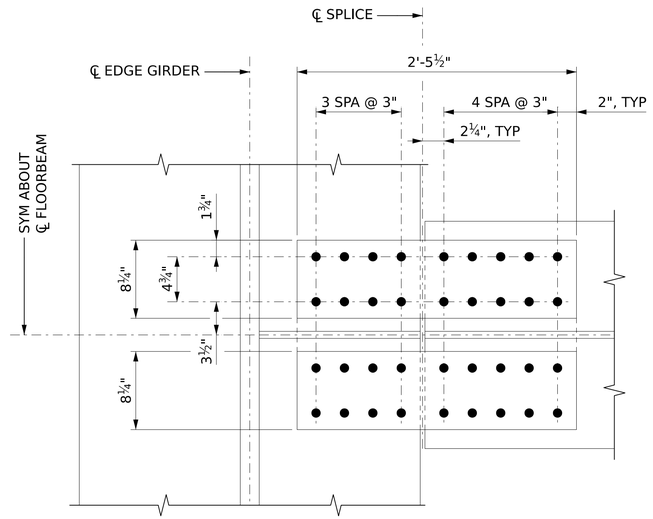


SECTION A-A
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1 1/2" = 1'-0"



SECTION C-C
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

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BRIDGE ENGINEER DATE

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
FIELD SPLICE TYPE 3

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rweibel
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40585

PRELIMINARY
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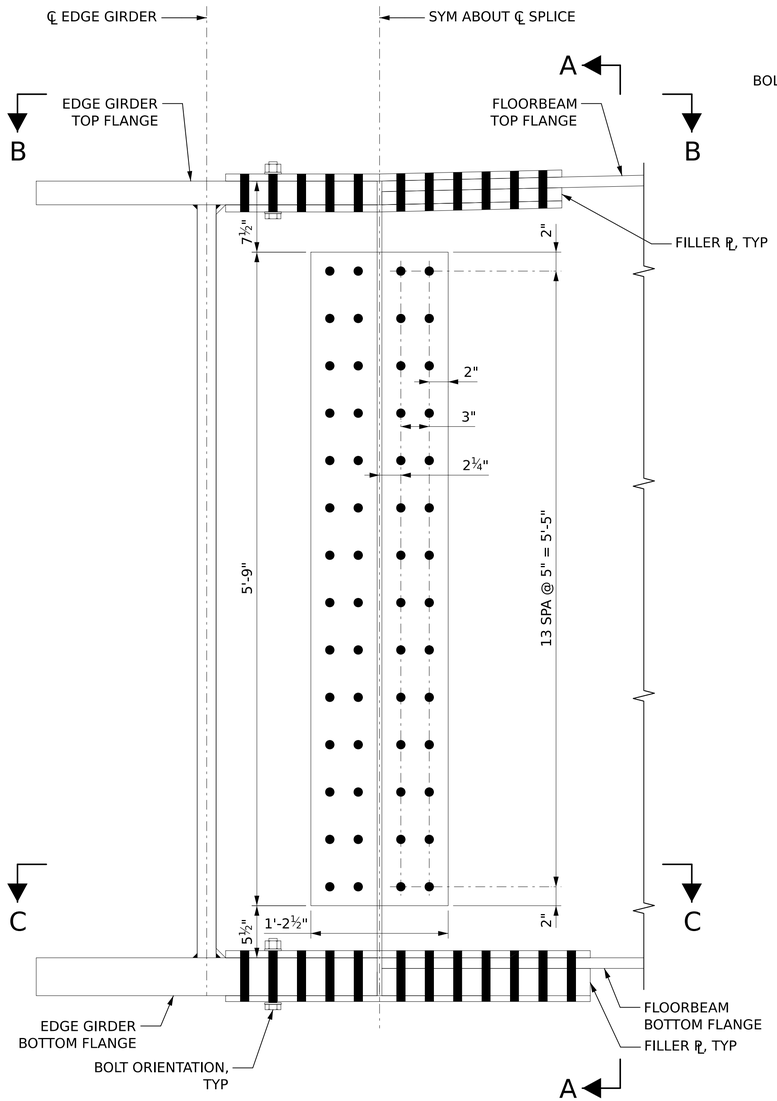
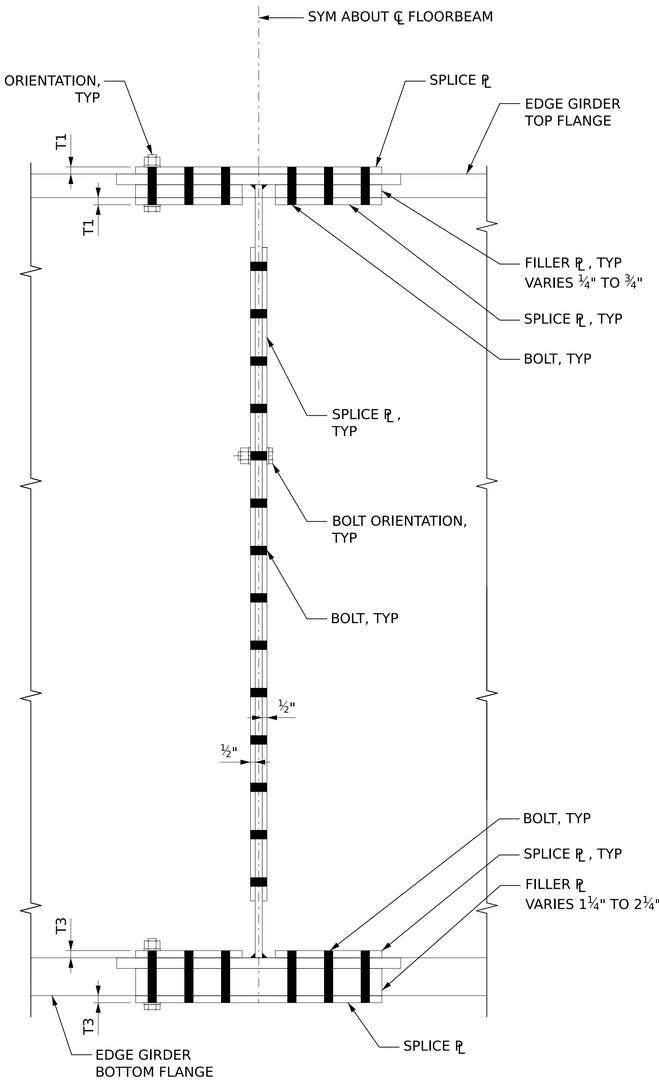


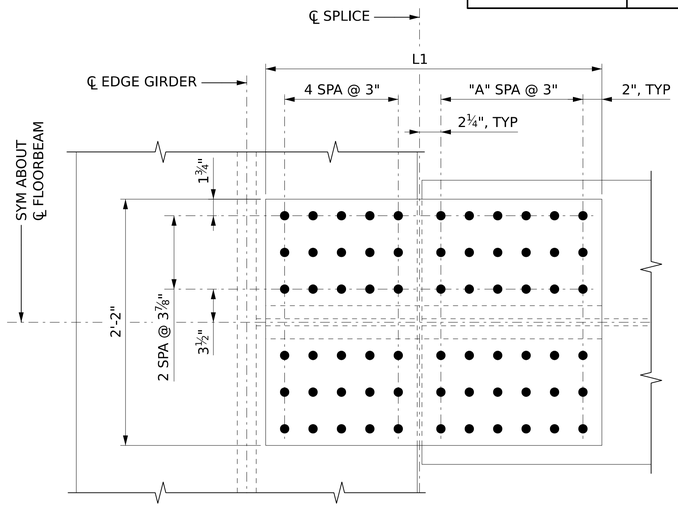
FLOORBEAM SPLICE TYPE 5 & 6

SCALE: 1 1/2" = 1'-0"



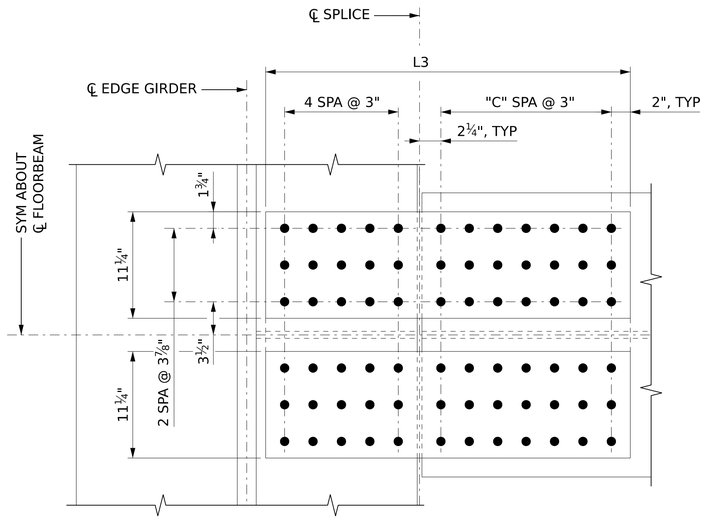
SECTION A-A

SCALE: 1 1/2" = 1'-0"



SECTION B-B

SCALE: 1 1/2" = 1'-0"



SECTION C-C

SCALE: 1 1/2" = 1'-0"

SPLICE TYPE	TOP FLANGE PLATE AND BOLT DIMENSIONS			BOTTOM FLANGE PLATE AND BOLT DIMENSIONS		
	L1 (IN)	"A"	T1 (IN)	L3 (IN)	"C"	T3 (IN)
5	35.5	5	1.625	38.5	6	1.625
6	32.5	4	1.250	35.5	5	1.250

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
FIELD SPLICE TYPE 5 & 6

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40586

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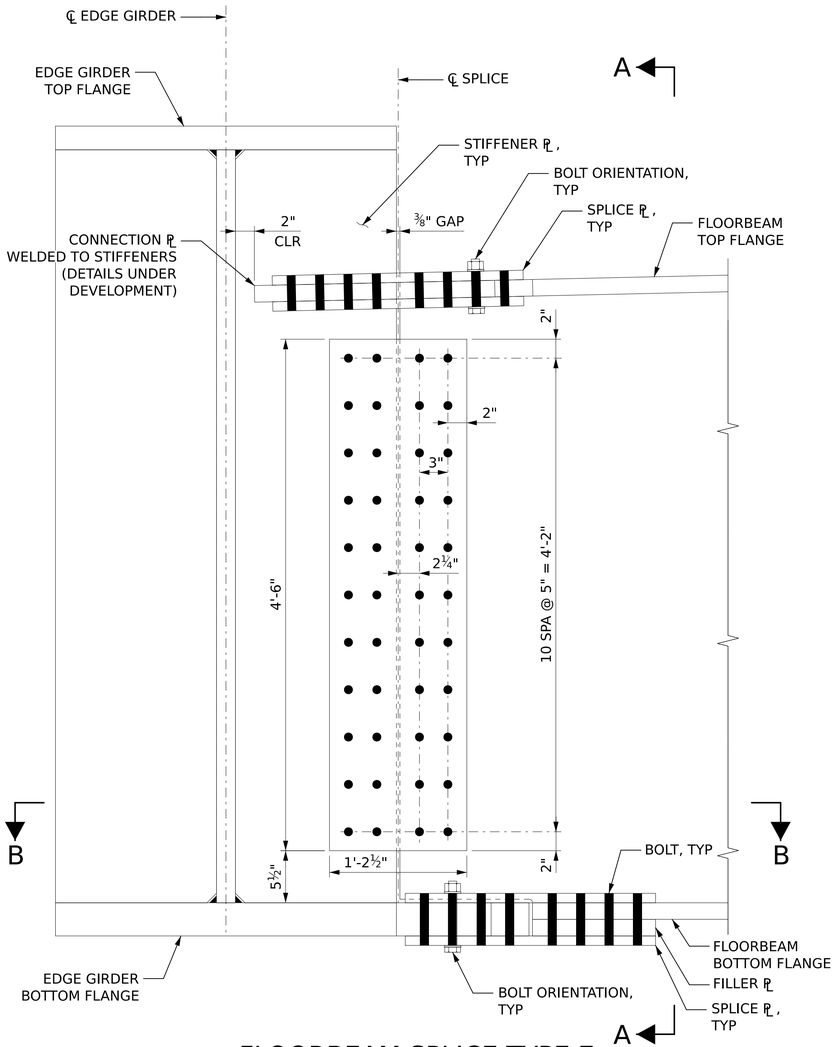
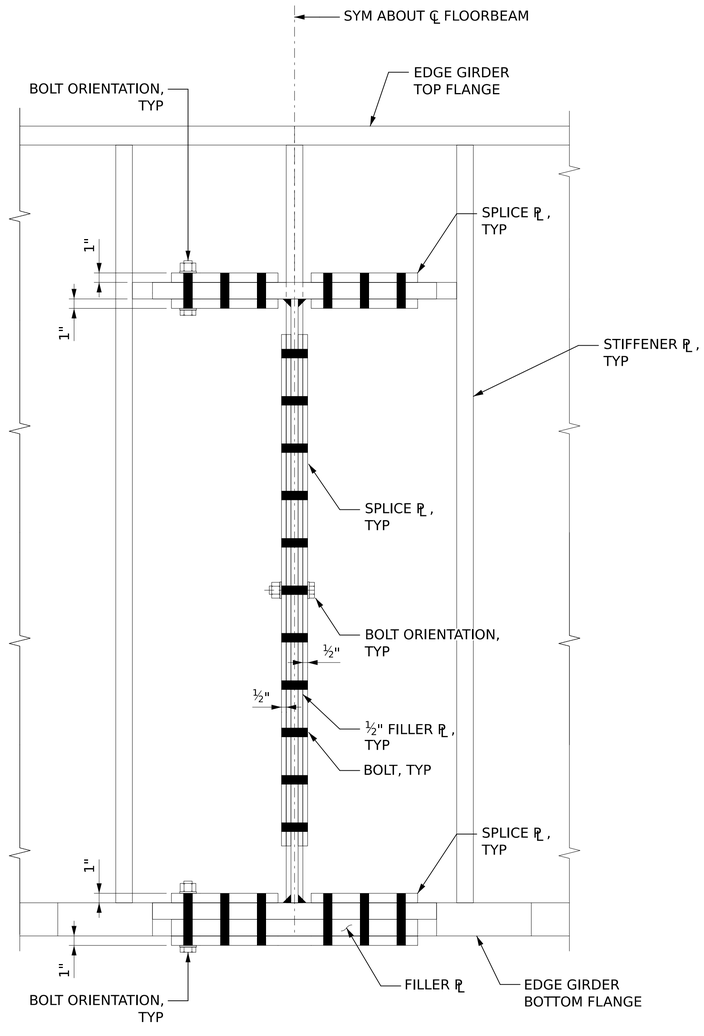


FLOORBEAM SPLICE TYPE 7
SCALE: 1 1/2" = 1'-0"



SECTION A-A
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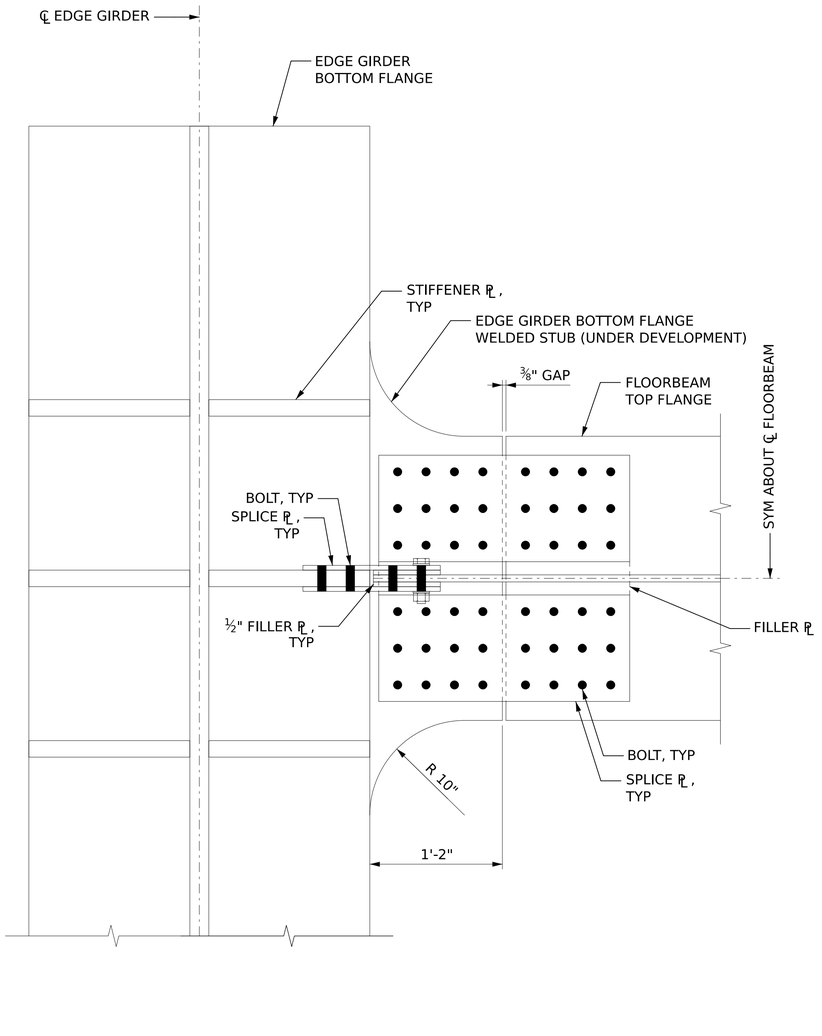

SECTION B-B
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "TRANSVERSE FLOORBEAM - FIELD SPLICE TYPE 2" SHEET.

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BIN(S)

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
TRANSVERSE FLOORBEAM
FIELD SPLICE TYPE 7

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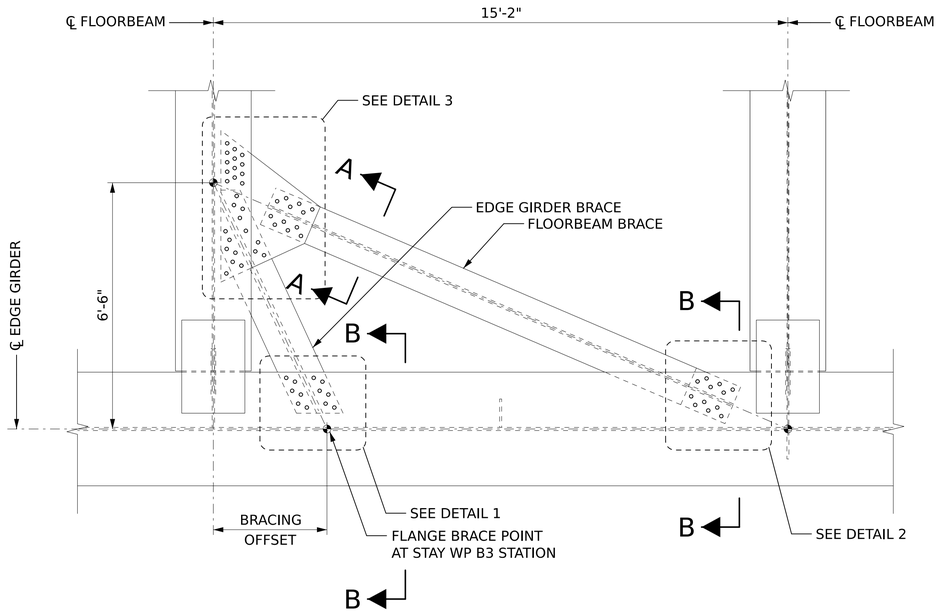
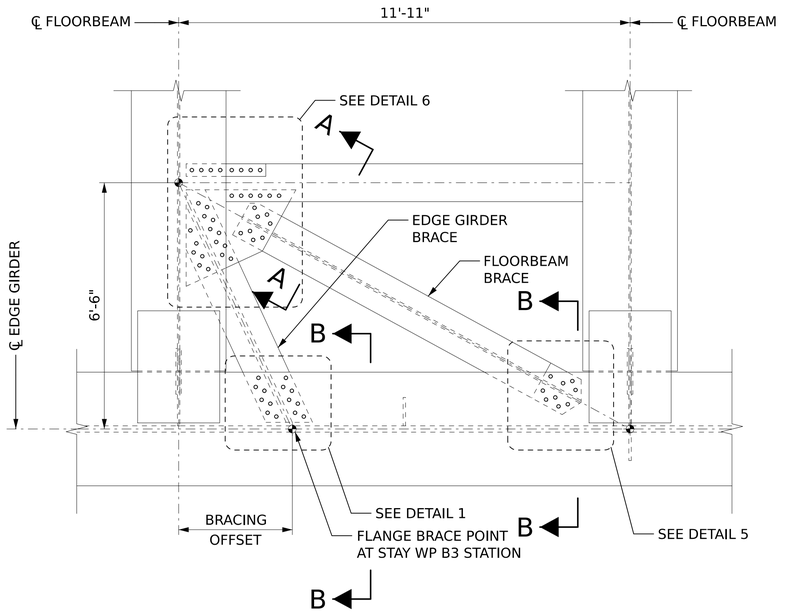
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40596



PLAN - BRACING TYPE 1

SCALE: 1/2" = 1'-0"



PLAN - BRACING TYPE 3

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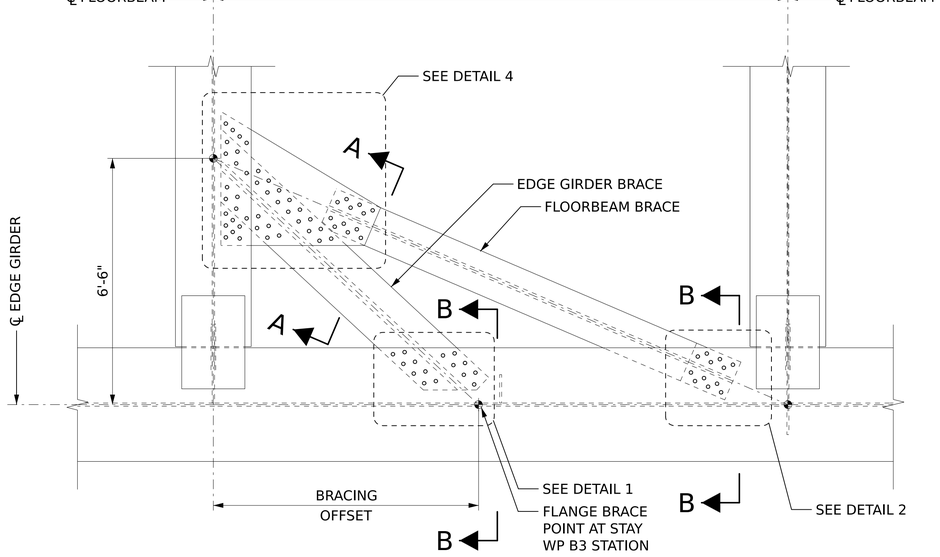

PLAN - BRACING TYPE 2

SCALE: 1/2" = 1'-0"

STAY BRACING SCHEDULE

STAY BRACE	BRACING PLAN TYPE	BRACING OFFSET	EDGE GIRDER BRACE	FLOORBEAM BRACE
S29B-15N/S	3	3'-0"	WT6x168	WT6x85
S29B-14N/S	3	3'-0"	WT6x168	WT6x85
S29B-13N/S	3	3'-0"	WT6x168	WT6x85
S29B-12N/S	3	3'-0"	WT6x168	WT6x85
S29B-11N/S	---	---	---	---
S29B-10N/S	---	---	---	---
S29B-9N/S	1	3'-0"	WT6x168	WT6x85
S29B-8N/S	1	4'-2"	WT6x168	WT6x85
S29B-7N/S	2	5'-3"	WT7x250	WT6x126
S29B-6N/S	2	6'-6"	WT7x250	WT6x126
S29B-5N/S	2	7'-5"	WT7x250	WT6x126
S29B-4N/S	2	6'-1"	WT7x250	WT6x126
S29B-3N/S	1	4'-8"	WT6x168	WT6x85
S29B-2N/S	1	3'-1"	WT6x168	WT6x85
S29B-1N/S	---	---	---	---
S29M-1N/S	---	---	---	---
S29M-2N/S	1	3'-1"	WT6x168	WT6x85
S29M-3N/S	1	4'-8"	WT6x168	WT6x85
S29M-4N/S	2	6'-1"	WT7x250	WT6x126
S29M-5N/S	2	7'-5"	WT7x250	WT6x126
S29M-6N/S	2	6'-5"	WT7x250	WT6x126
S29M-7N/S	2	5'-2"	WT7x250	WT6x126
S29M-8N/S	1	3'-11"	WT6x168	WT6x85
S29M-9N/S	1	2'-9"	WT6x168	WT6x85
S29M-10N/S	---	---	---	---
S29M-11N/S	---	---	---	---
S29M-12N/S	---	---	---	---
S29M-13N/S	---	---	---	---
S29M-14N/S	1	2'-7"	WT6x168	WT6x85
S29M-15N/S	1	3'-7"	WT6x168	WT6x85

(S29 STAYS SHOWN, S30 SIMILAR)

NOTES:

1. SEE "STEEL FRAMING LAYOUT" SHEETS FOR BRACING LOCATIONS AND ORIENTATION.
2. WT BRACING SHALL BE ASTM A992 GRADE 50. GUSSET AND FILL PLATES SHALL BE ASTM A709 GRADE 50W.
3. WT BRACING AND GUSSET PLATES SHALL BE PAINTED WITH 3 COAT SYSTEM, BEGINNING WITH ZINC PRIMER.
4. ALL BOLTS 1" DIAMETER ASTM F3125 GRADE A490 IN 1 ⅛" HOLES, THREADS EXCLUDED FROM SHEAR PLANES.
5. BOLTS, NUTS, WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50.
6. ALL BOLTS SHALL BE PLACED AT AN EQUAL SPACING WITH A MINIMUM EDGE DISTANCE = 2" UNO.
7. MINIMUM BOLTS SPACING = 3", MAXIMUM = 7".
8. ALL BOLTS SHALL BE ORIENTED WITH BOLT HEADS ON TOP OF FLANGES.
9. ALL BOLTS SHALL BE TIGHTENED TO TO SLIP CRITICAL, WITH CLASS B FAYING SURFACES.

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BRIDGE ENGINEER DATE

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BIN(S)
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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STAY TOP FLANGE BRACING
DETAILS 1

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40597

PRELIMINARY
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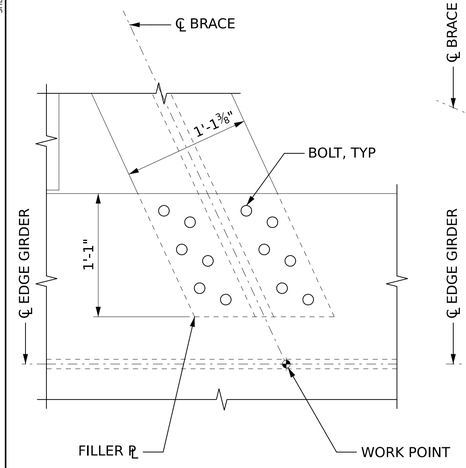
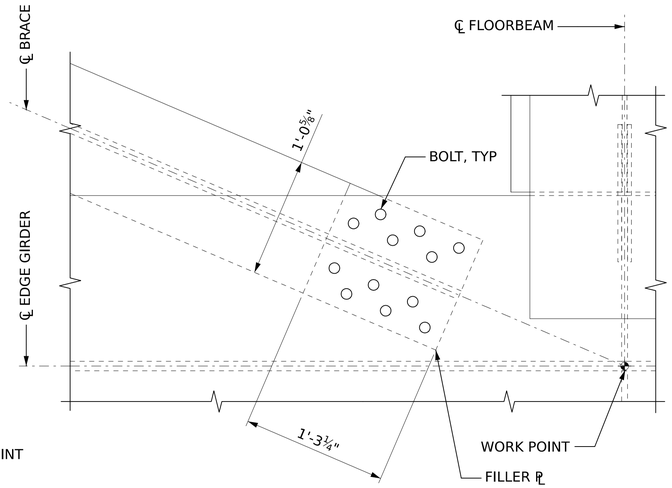
2" 1" 0 SHEET REFERENCE



DETAIL 1
SCALE: 1 ½" = 1'-0"



DETAIL 2
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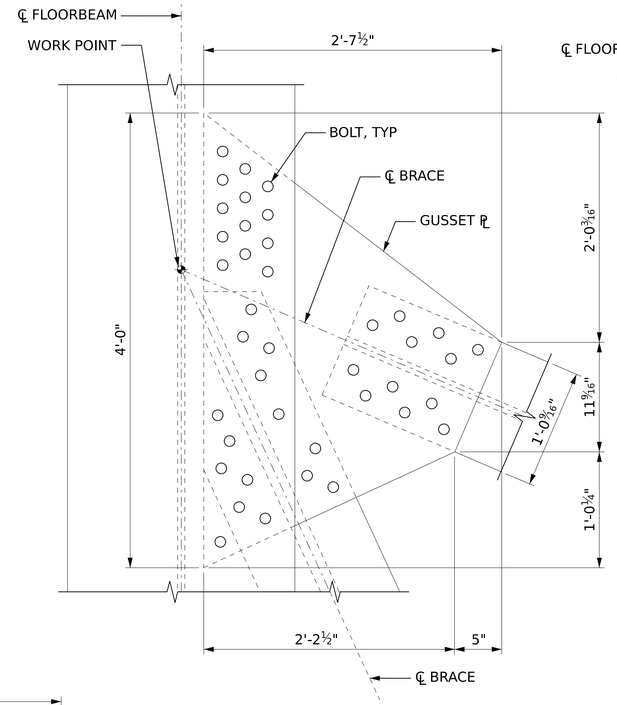

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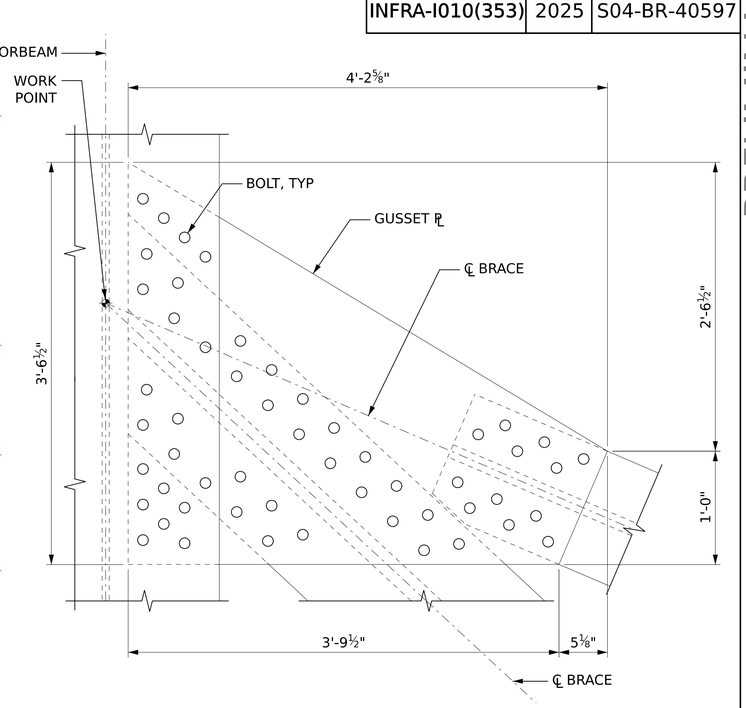

DETAIL 4
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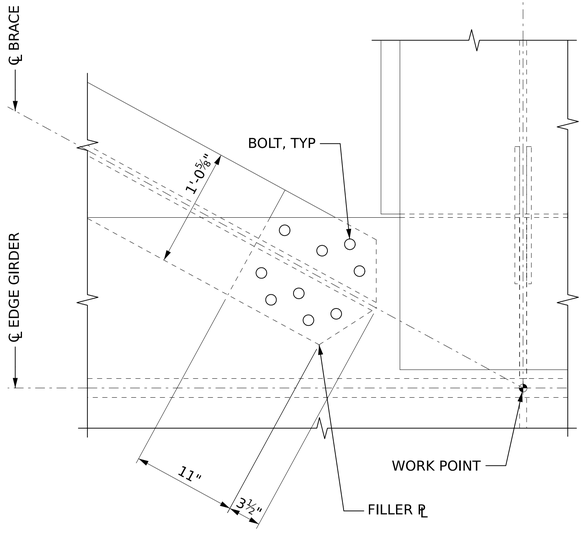
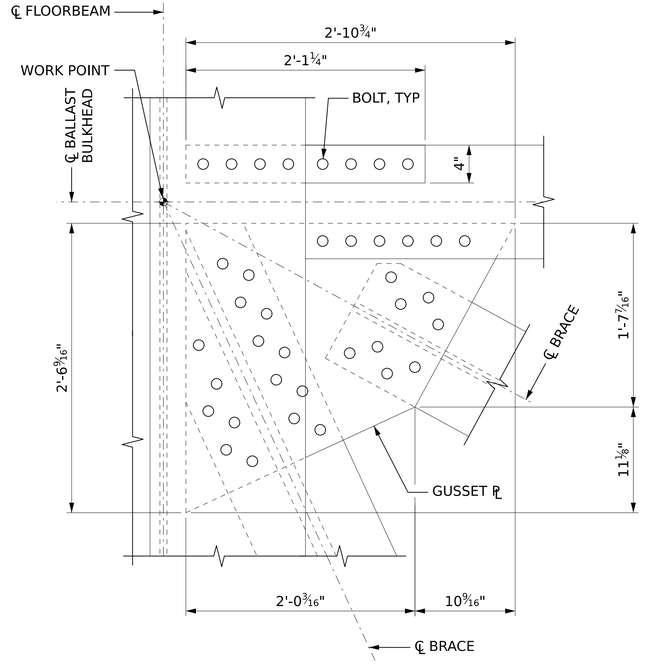
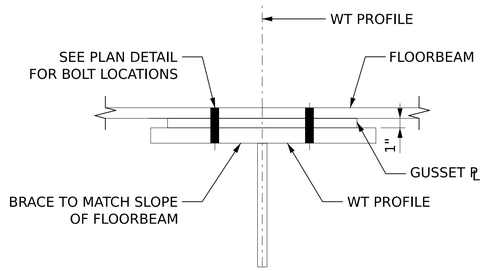


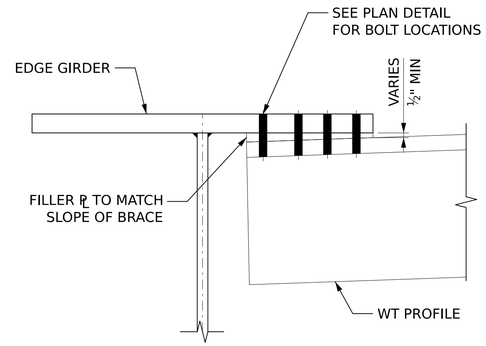
DETAIL 5
SCALE: 1 ½" = 1'-0"



DETAIL 6
SCALE: 1 ½" = 1'-0"



PARTIAL SECTION A
SCALE: 1 ½" = 1'-0"



PARTIAL SECTION B
SCALE: 1 ½" = 1'-0"

NOTES:

1. FOR NOTES, SEE "STAY TOP FLANGE BRACING DETAILS 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STAY TOP FLANGE BRACING
DETAILS 2

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rweibel
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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40611

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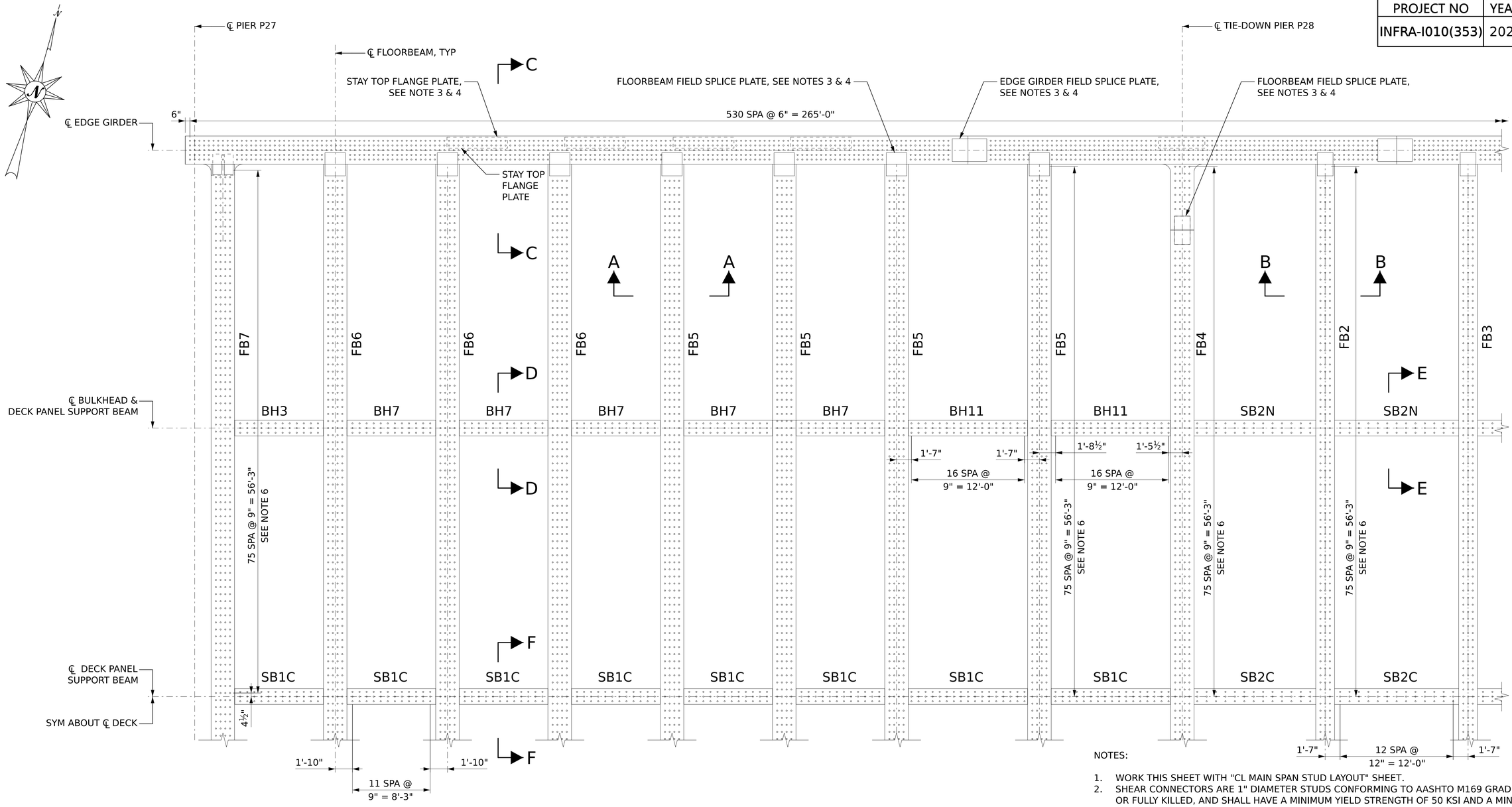

SHEAR STUD LAYOUT AT PIER P27

SCALE: 3/16" = 1'-0"
(LAYOUT AT PIER P32 OPPOSITE HANDED)

NOTES:

1. WORK THIS SHEET WITH "CL MAIN SPAN STUD LAYOUT" SHEET.
2. SHEAR CONNECTORS ARE 1" DIAMETER STUDS CONFORMING TO AASHTO M169 GRADE 1020, EITHER SEMI OR FULLY KILLED, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI AND A MINIMUM TENSILE STRENGTH OF 60 KSI.
3. STUDS LOCATED ON EDGE GIRDER AND FLOORBEAM TOP FLANGE MOUNTING PLATE SHALL BE SHOP INSTALLED AFTER DECK ANCHOR BOLT TENSIONING. STUDS LOCATED ABOVE STAY TOP FLANGE BRACING CONNECTIONS SHALL BE SHOP INSTALLED AFTER BRACING FIT-UP AND DRILLING. ALL STUDS MAY BE ADJUSTED UP TO 2".
4. FOR STUD PLACEMENT ON FLOORBEAM AND EDGE SPLICE PLATE, SEE "STUD LAYOUT - DETAILS 1" SHEET (UNDER DEVELOPMENT).
5. SHEAR STUDS SHALL NOT BE CUT IN THE FIELD UNLESS APPROVED IN WRITING BY THE BRIDGE ENGINEER.
6. FLOORBEAM 9" SHEAR STUD SPACING IS AN AVERAGE, VARIABLE SPACING ALONG LENGTH (6", 9", 12") IN UNDER DEVELOPMENT.

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60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 STUD LAYOUT

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rweibel
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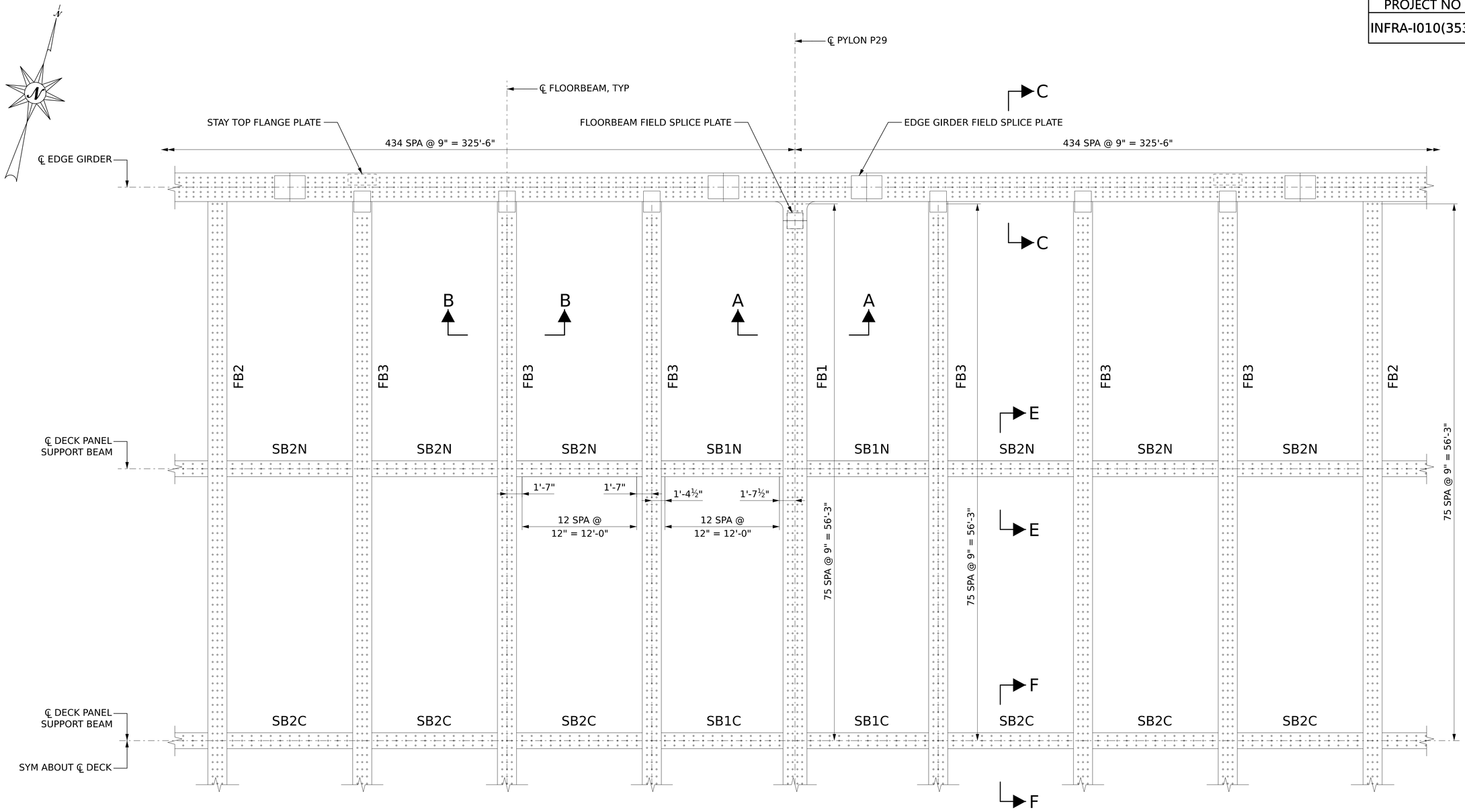
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40612



SHEAR STUD LAYOUT AT PYLON P29

SCALE: 3/16" = 1'-0"
(LAYOUT AT PYLON P30 OPPOSITE HANDED)

NOTES:

1. FOR NOTES, SEE "PIER P27 & P32 STUD LAYOUT" SHEET.

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BRIDGE ENGINEER DATE

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PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30 STUD LAYOUT

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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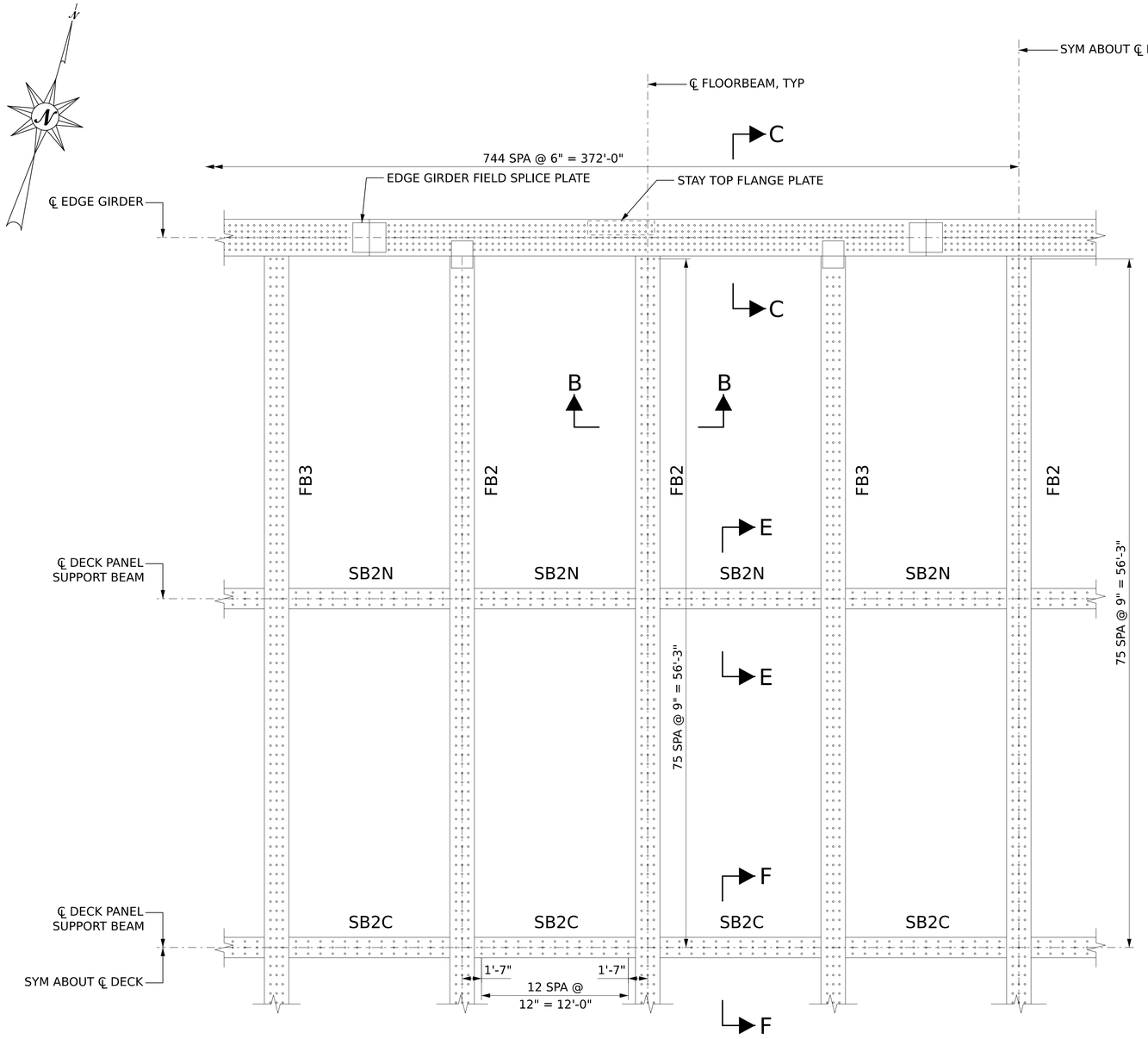
3/14/2025

SHEET REFERENCE 0 1" 2"

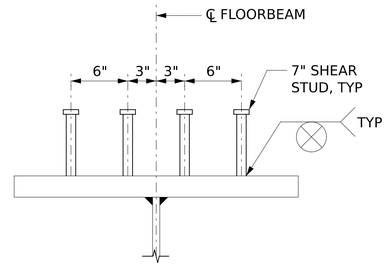
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40613

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

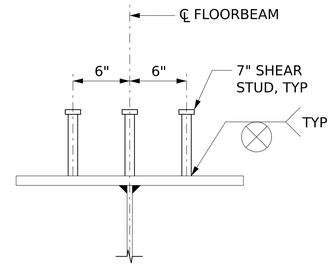
SHEET REFERENCE 0 1" 2"



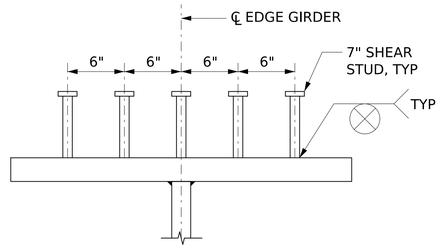
SHEAR STUD LAYOUT AT ℄ MAIN SPAN
SCALE: 3/16" = 1'-0"



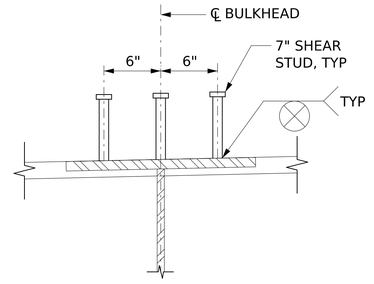
SECTION A-A
SCALE: 1 1/2" = 1'-0"
FLOORBEAMS FB1, FB4, FB5, FB6 & FB7



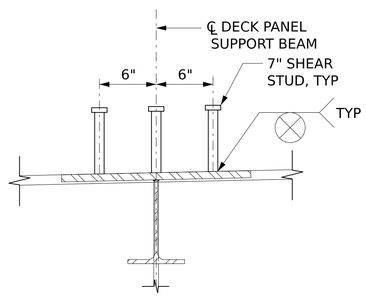
SECTION B-B
SCALE: 1 1/2" = 1'-0"
FLOORBEAMS FB2 & FB3



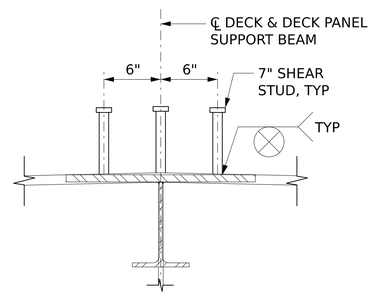
SECTION C-C
SCALE: 1 1/2" = 1'-0"



SECTION D-D
SCALE: 1 1/2" = 1'-0"



SECTION E-E
SCALE: 1 1/2" = 1'-0"



SECTION F-F
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "PIER P27 & P32 STUD LAYOUT" SHEET.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
CL MAIN SPAN STUD LAYOUT

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rweibel
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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40631

PRELIMINARY
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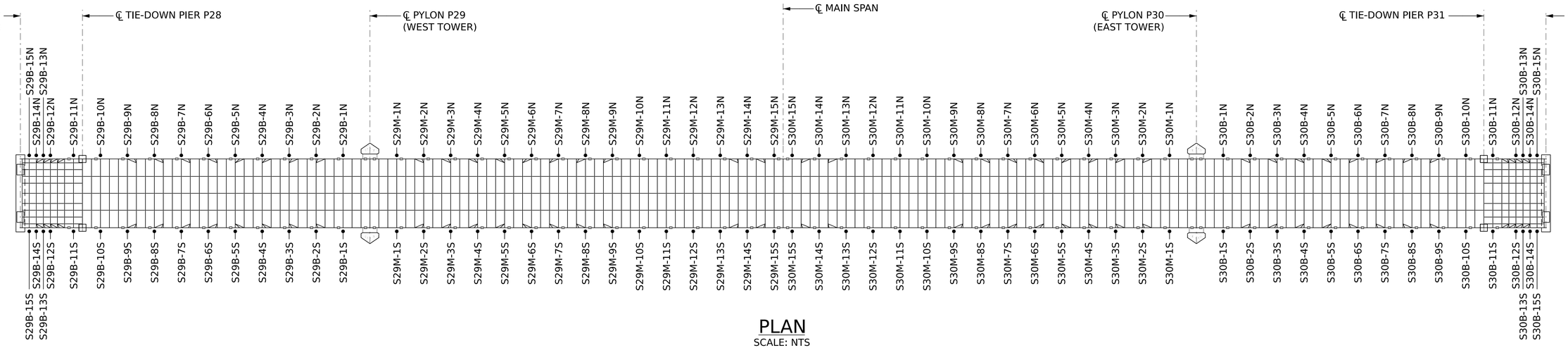
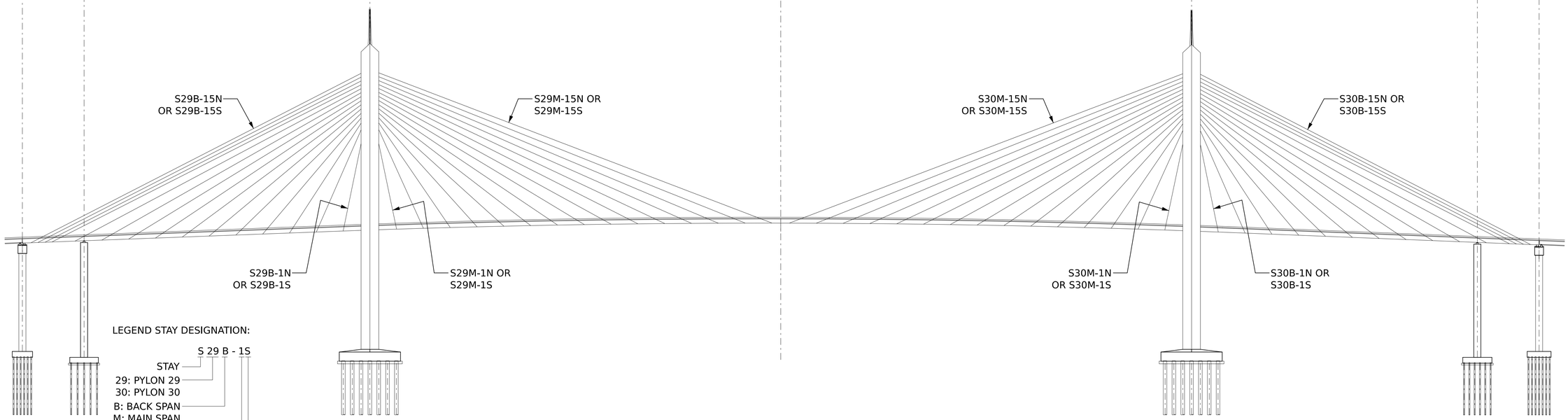
SHEET REFERENCE 0 1" 2"



PLAN
SCALE: NTS



ELEVATION
SCALE: NTS

NOTES:

1. FOR STAY GEOMETRY, SEE "STAY CABLE - GEOMETRY" SHEETS.

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BIN(S)

COUNTY(S)
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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STAY CABLE
DESIGNATION

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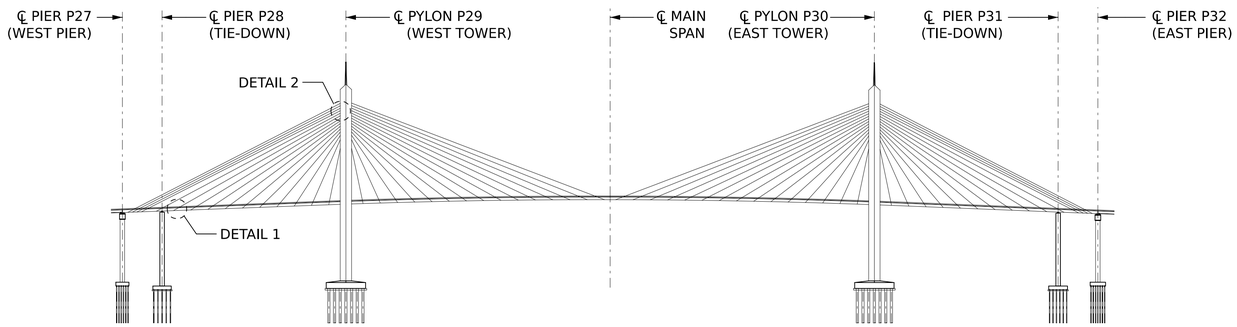
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40632



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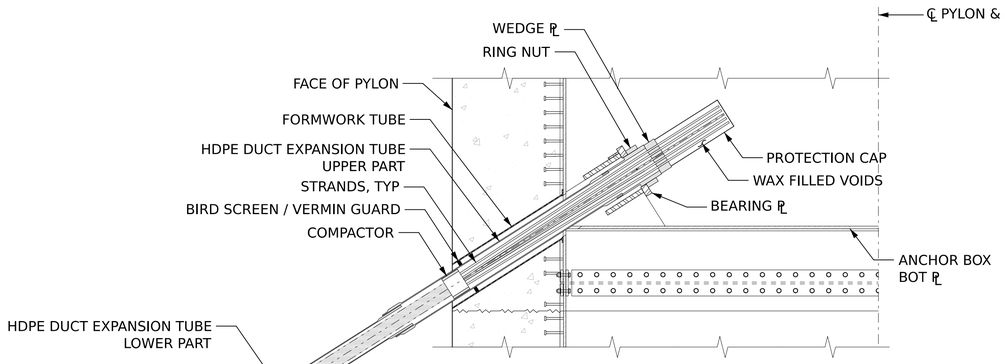
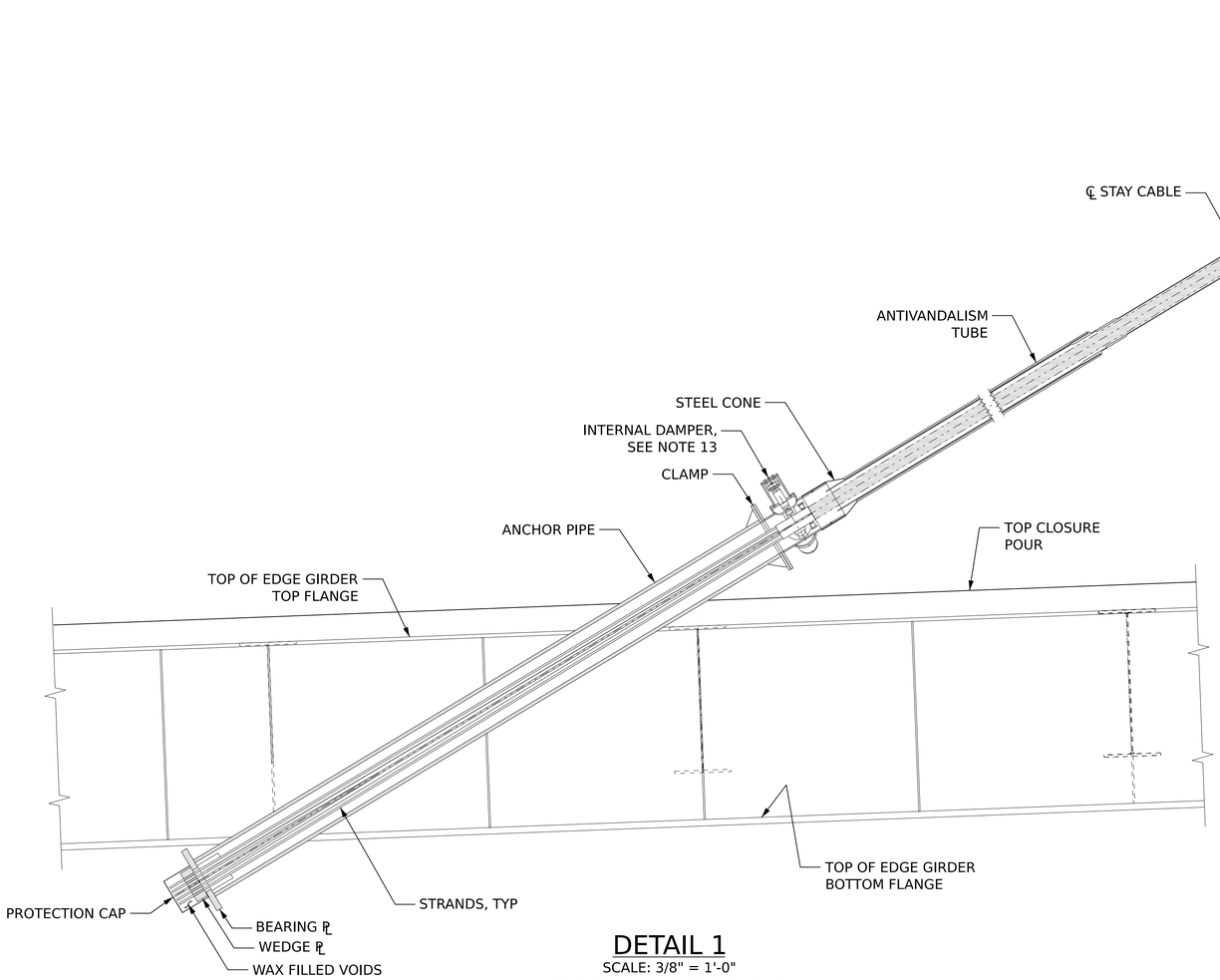
SCALE: NTS



DETAIL 2
SCALE: 3/8" = 1'-0"
PYLON ANCHORAGE (STRESSING END)



DETAIL 1
SCALE: 3/8" = 1'-0"
BRIDGE DECK ANCHORAGE (FIXED END)

NOTES:

1. DETAILS SHOWN ARE SCHEMATIC. FINAL DETAILS ARE TO BE PROVIDED BY THE STAY CABLE SUPPLIER.
2. THE STAY CABLE SYSTEM SHALL BE DESIGNED, CONSTRUCTED, AND TESTED IN ACCORDANCE WITH THE PTI GUIDE SPECIFICATION “RECOMMENDATIONS FOR STAY CABLE DESIGN, TESTING, AND INSTALLATION”.
3. THE MINIMUM SERVICE LIFE FOR THE STAY CABLE SYSTEM SHALL BE 100 YEARS.
4. THE STAY CABLE SYSTEM SHALL ALLOW INDIVIDUAL STRAND TENSION CONTROL AND FUTURE STRAND REPLACEMENT.
5. THE STAY CABLE SYSTEM SHALL PROVIDE STRAND INDEPENDENCY REGARDING ANCHORING, CORROSION PROTECTION, INSTALLATION, TENSIONING, AND REPLACEMENT.
6. CORROSION PROTECTION OF THE STAY CABLE SYSTEM (INCLUDING DECK AND PYLON ANCHORS) SHALL BE IN ACCORDANCE WITH THE CORROSION PROTECTION PLAN.
7. STAY CABLE STRANDS SHALL BE HIGH STRENGTH, LOW RELAXATION, AND WELDLESS CONFORMING TO ASTM A416 FOR STAY CABLES. THE STRANDS SHALL BE COATED AND FILLED WITH CORROSION-INHIBITING MATERIAL AND ENCASED IN EITHER A HDPE OR HDPP SHEATH. EPOXY COATED STRAND IS PROHIBITED.
8. AN OUTER PROTECTIVE, HEAVY DUTY CO-EXTRUDED HDPE PIPE SHALL BE PROVIDED. THE CO-EXTRUDED LAYER OF THE HDPE PIPE SHALL BE FULLY BONDED.
9. THE OUTER LAYER OF THE HDPE PIPE SHALL HAVE A COLOR THAT COMPLIES WITH THE AESTHETICS AND LANDSCAPING MASTER PLAN. THE OUTER LAYER SHALL HAVE AN ULTRAVIOLET RESISTANCE EQUIVALENT TO BLACK PIPE PRODUCED WITH NOT LESS THAN 2% CARBON BLACK. THE OUTER LAYER SHALL HAVE A MINIMUM THICKNESS OF 1/16-INCH.
10. THE INTERIOR LAYER OF THE HDPE PIPE SHALL BE BLACK, WEATHER RESISTANT, AND CONTAIN NOT LESS THAN 2% CARBON BLACK.
11. THE SPACE BETWEEN THE HDPE PIPE AND THE STAY CABLE STRANDS SHALL NOT BE FILLED WITH GROUT IN THE FINAL CONDITION.
12. THE STAY ANCHORAGE SYSTEM SHALL BE SPECIFICALLY DESIGNED FOR THE SHEATHED STRAND SYSTEM.
13. THE MINIMUM LEVEL OF DAMPING REQUIRED FOR EACH STAY SHALL BE CALCULATED AND PROVIDED BY THE STAY SUPPLIER CONSIDERING THE EFFECTS OF WIND AND RAIN.
14. FOR STAY CABLE GEOMETRY, SEE "STAY CABLE - GEOMETRY" SHEETS.
15. FOR STAY CABLE SIZES, SEE "STAY CABLE - SCHEDULE" SHEETS.
16. FOR DECK ANCHOR DETAILS, SEE "DECK ANCHOR" SHEETS.
17. FOR PYLON ANCHOR DETAILS, SEE "STAY ANCHOR BOX" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

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A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

STAY CABLE

DETAILS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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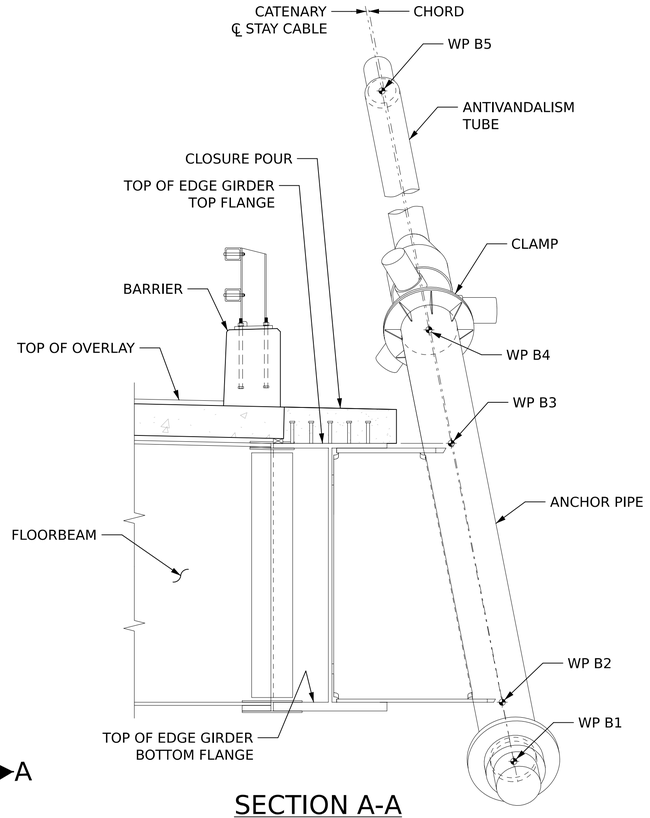
3/31/2025

2" 1" 0 SHEET REFERENCE

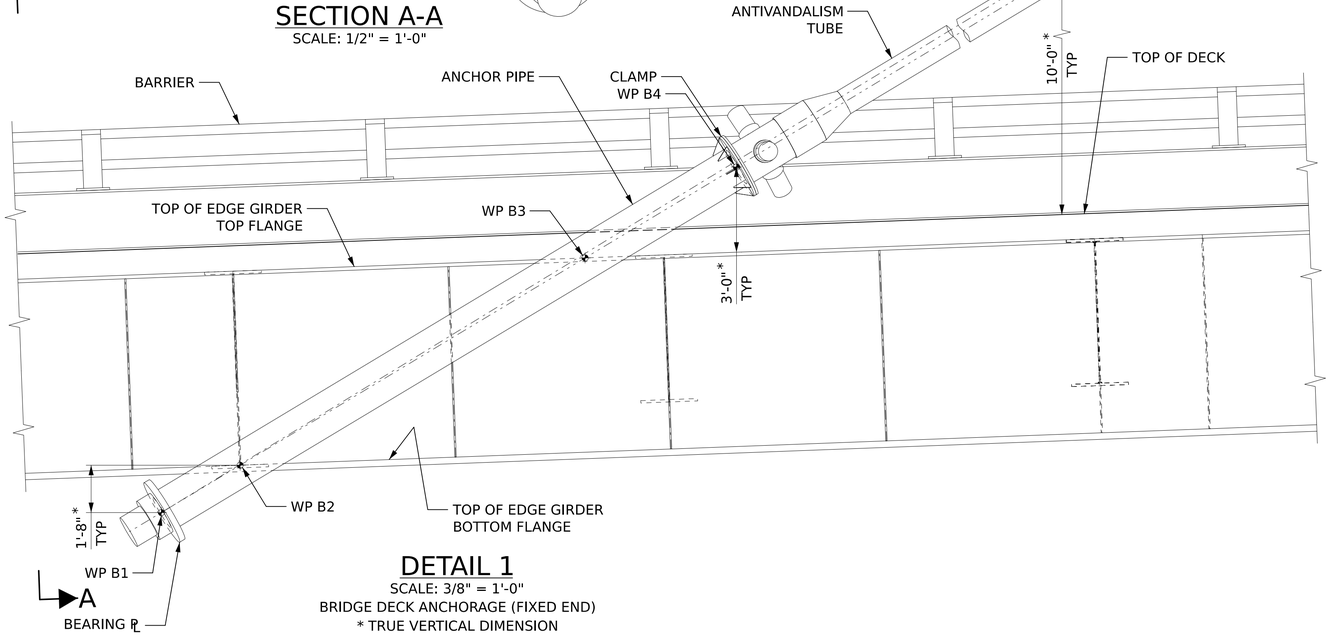
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40633

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

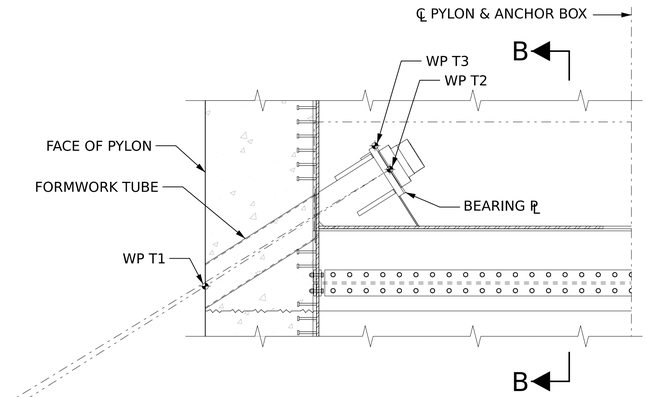
2" 1" SHEET REFERENCE 0



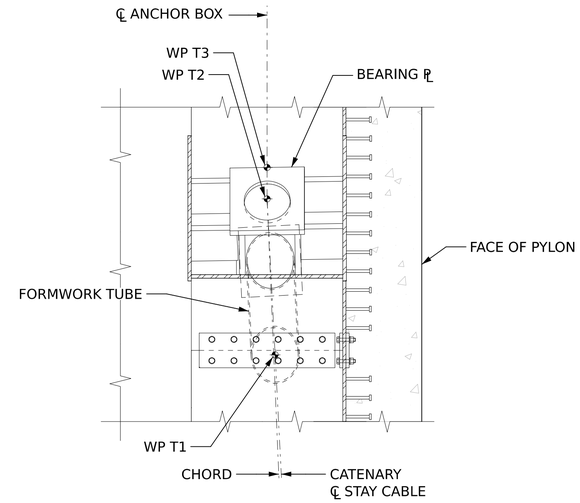
SECTION A-A
SCALE: 1/2" = 1'-0"



DETAIL 1
SCALE: 3/8" = 1'-0"
BRIDGE DECK ANCHORAGE (FIXED END)
* TRUE VERTICAL DIMENSION



DETAIL 2
SCALE: 3/8" = 1'-0"
PYLON ANCHORAGE (STRESSING END)



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR WORK POINT COORDINATES, SEE "STAY CABLE - GEOMETRY 2 AND 3" SHEETS.
2. THE WORK POINT COORDINATES ARE CALCULATED ON THE BASIS OF THE DAY 10,000 FORCE IN THE STAYS SHOWN ON DRAWING "STAY CABLE - SCHEDULE" SHEETS.
3. THE WORK POINT COORDINATES CORRESPOND TO THE THEORETICAL BRIDGE PROFILE AT THE REFERENCE TEMPERATURE OF 70°. THE WORK POINTS SHALL BE ADJUSTED FOR THE CAMBERS SHOWN ON DRAWING "EDGE GIRDER - GEOMETRY" SHEETS.

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60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STAY CABLE
GEOMETRY 1

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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40634

NORTH STAY CABLE GEOMETRY

	WP B1			WP B2			WP B3			WP B4			WP B5			WP T1			WP T2			WP T3		
STAY	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV
S29B-15N	509+01.614	62.858	197.869	509+04.968	62.542	199.536	509+19.857	61.140	206.934	509+26.389	60.525	210.180	509+43.991	58.866	218.927	514+65.051	9.784	486.750	514+71.551	9.172	490.193	514+70.962	8.925	491.262
S29B-14N	509+13.524	62.857	198.318	509+16.884	62.542	199.984	509+31.803	61.147	207.384	509+38.348	60.535	210.630	509+55.985	58.886	219.378	514+65.051	11.281	480.264	514+71.551	10.673	483.693	514+71.018	10.448	484.664
S29B-13N	509+25.431	62.855	198.766	509+28.801	62.542	200.433	509+43.768	61.153	207.834	509+50.334	60.544	211.081	509+68.028	58.902	219.831	514+65.051	12.777	473.775	514+71.551	12.173	477.193	514+71.019	11.949	478.165
S29B-12N	509+37.338	62.853	199.214	509+40.718	62.542	200.881	509+55.730	61.160	208.284	509+62.316	60.554	211.532	509+80.063	58.920	220.284	514+65.051	14.272	467.287	514+71.551	13.674	470.693	514+71.021	13.449	471.666
S29B-11N	509+76.499	62.852	200.682	509+79.718	62.542	202.349	509+93.958	61.171	209.723	510+00.206	60.569	212.958	510+17.042	58.948	221.676	514+65.051	15.801	460.634	514+71.551	15.175	464.193	514+71.040	14.968	465.090
S29B-10N	510+22.216	62.851	202.395	510+25.218	62.542	204.061	510+38.430	61.185	211.397	510+44.226	60.589	214.615	510+59.845	58.984	223.287	514+65.051	17.343	453.911	514+71.551	16.675	457.693	514+71.016	16.471	458.576
S29B-9N	510+67.944	62.849	204.107	510+70.718	62.542	205.774	510+82.857	61.199	213.069	510+88.183	60.609	216.269	511+02.534	59.021	224.893	514+65.051	18.895	447.137	514+71.551	18.176	451.193	514+71.033	17.992	451.991
S29B-8N	511+13.682	62.848	205.819	511+16.218	62.542	207.486	511+27.254	61.211	214.739	511+32.096	60.627	217.922	511+45.144	59.053	226.497	514+65.051	20.461	440.284	514+71.551	19.677	444.693	514+71.046	19.511	445.408
S29B-7N	511+59.431	62.848	207.532	511+61.718	62.542	209.198	511+71.610	61.222	216.409	511+75.950	60.642	219.572	511+87.645	59.081	228.096	514+65.051	22.045	433.320	514+71.551	21.177	438.193	514+71.012	21.018	438.884
S29B-6N	512+05.196	62.847	209.244	512+07.218	62.542	210.911	512+15.909	61.232	218.076	512+19.722	60.657	221.219	512+29.996	59.107	229.690	514+65.051	23.658	426.191	514+71.551	22.678	431.693	514+70.971	22.526	432.352
S29B-5N	512+50.983	62.846	210.956	512+52.718	62.542	212.623	512+60.126	61.244	219.740	512+63.376	60.674	222.862	512+72.134	59.139	231.276	514+65.051	25.318	418.807	514+71.551	24.178	425.193	514+70.922	24.037	425.808
S29B-4N	512+96.788	62.845	212.669	512+98.218	62.542	214.335	513+04.278	61.257	221.402	513+06.937	60.694	224.502	513+14.102	59.175	232.856	514+65.051	27.173	410.479	514+71.551	25.795	418.193	514+70.866	25.667	418.748
S29B-3N	513+42.616	62.844	214.381	513+43.718	62.542	216.048	513+48.352	61.273	223.060	513+50.386	60.716	226.137	513+55.865	59.215	234.427	514+65.051	29.307	400.731	514+71.551	27.526	410.693	514+70.881	27.429	411.113
S29B-2N	513+88.472	62.843	216.094	513+89.218	62.542	217.760	513+92.330	61.289	224.715	513+93.695	60.739	227.767	513+97.374	59.256	235.989	514+65.051	31.992	388.017	514+71.551	29.373	402.693	514+70.878	29.307	402.980
S29B-1N	514+34.366	62.841	217.805	514+34.718	62.542	219.471	514+36.172	61.306	226.362	514+36.810	60.763	229.386	514+38.530	59.301	237.532	514+65.051	36.747	363.641	514+71.551	31.220	394.693	514+70.832	31.187	394.838
S29M-1N	515+25.743	62.847	220.972	515+25.384	62.542	222.639	515+23.925	61.302	229.427	515+23.285	60.757	232.406	515+21.560	59.290	240.432	514+95.051	36.747	364.206	514+88.551	31.220	394.693	514+89.270	31.186	394.840
S29M-2N	515+71.656	62.853	222.401	515+70.884	62.542	224.068	515+67.762	61.285	230.808	515+66.392	60.733	233.765	515+62.700	59.245	241.735	514+95.051	31.992	388.517	514+88.551	29.373	402.693	514+89.220	29.305	402.988
S29M-3N	516+17.542	62.859	223.723	516+16.384	62.542	225.390	516+11.730	61.267	232.093	516+09.687	60.708	235.034	516+04.183	59.200	242.960	514+95.051	29.307	401.206	514+88.551	27.526	410.693	514+89.212	27.426	411.127
S29M-4N	516+63.405	62.865	224.938	516+61.884	62.542	226.605	516+55.794	61.251	233.280	516+53.121	60.684	236.210	516+45.919	59.158	244.104	514+95.051	27.173	410.946	514+88.551	25.795	418.193	514+89.219	25.662	418.767
S29M-5N	517+09.251	62.870	226.046	517+07.384	62.542	227.713	516+99.931	61.236	234.369	516+96.659	60.662	237.291	516+87.844	59.117	245.163	514+95.051	25.318	419.264	514+88.551	24.178	425.193	514+89.157	24.032	425.829
S29M-6N	517+55.082	62.874	227.046	517+52.884	62.542	228.713	517+44.121	61.221	235.359	517+40.275	60.641	238.276	517+29.911	59.078	246.135	514+95.051	23.658	426.637	514+88.551	22.678	431.693	514+89.104	22.521	432.374
S29M-7N	518+00.898	62.878	227.940	517+98.384	62.542	229.606	517+88.367	61.205	236.248	517+83.969	60.618	239.164	517+72.121	59.036	247.019	514+95.051	22.045	433.748	514+88.551	21.177	438.193	514+89.060	21.013	438.906
S29M-8N	518+46.700	62.882	228.726	518+43.884	62.542	230.392	518+32.659	61.188	237.037	518+27.732	60.594	239.954	518+14.455	58.992	247.813	514+95.051	20.461	440.698	514+88.551	19.677	444.693	514+89.024	19.507	445.429
S29M-9N	518+92.490	62.886	229.405	518+89.384	62.542	231.071	518+76.986	61.170	237.725	518+71.543	60.568	240.646	518+56.878	58.944	248.517	514+95.051	18.895	447.539	514+88.551	18.176	451.193	514+89.074	17.970	452.083
S29M-10N	519+38.266	62.890	229.976	519+34.884	62.542	231.643	519+21.352	61.152	238.312	519+15.412	60.541	241.240	518+99.405	58.896	249.129	514+95.051	17.343	454.309	514+88.551	16.675	457.693	514+89.044	16.466	458.599
S29M-11N	519+84.026	62.893	230.441	519+80.384	62.542	232.108	519+65.765	61.134	238.798	519+59.347	60.516	241.735	519+42.054	58.851	249.648	514+95.051	15.801	461.030	514+88.551	15.175	464.193	514+89.018	14.963	465.112
S29M-12N	520+29.770	62.896	230.799	520+25.884	62.542	232.465	520+10.224	61.118	239.182	520+03.348	60.493	242.131	519+84.823	58.808	250.076	514+95.051	14.265	467.714	514+88.551	13.674	470.693	514+89.029	13.444	471.691
S29M-13N	520+75.513	62.899	231.049	520+71.384	62.542	232.715	520+54.670	61.098	239.463	520+47.332	60.464	242.426	520+27.559	58.755	250.408	514+95.051	12.735	474.360	514+88.551	12.173	477.193	514+89.010	11.941	478.200
S29M-14N	521+21.247	62.903	231.192	521+16.884	62.542	232.859	520+99.124	61.076	239.643	520+91.327	60.433	242.622	520+70.317	58.698	250.647	514+95.051	11.209	480.982	514+88.551	10.673	483.693	514+89.038	10.415	484.810
S29M-15N	521+66.968	62.905	231.228	521+62.384	62.542	232.894	521+43.612	61.055	239.720	521+35.370	60.403	242.717	521+13.164	58.644	250.792	514+95.051	9.687	487.588	514+88.551	9.172	490.193	514+89.022	8.913	491.316
S30M-15N	521+88.103	62.908	231.192	521+92.718	62.542	232.859	522+11.495	61.055	239.641	522+19.738	60.402	242.618	522+41.950	58.643	250.640	528+60.051	9.687	485.964	528+66.551	9.172	488.554	528+66.083	8.913	489.678
S30M-14N	522+33.827	62.905	231.049	522+38.218	62.542	232.716	522+55.981	61.076	239.459	522+63.780	60.432	242.419	522+84.793	58.698	250.395	528+60.051	11.209	479.359	528+66.551	10.673	482.054	528+66.066	10.415	483.172
S30M-13N	522+79.565	62.901	230.800	522+83.718	62.542	232.466	523+00.435	61.098	239.175	523+07.773	60.463	242.120	523+27.548	58.755	250.056	528+60.051	12.735	472.737	528+66.551	12.173	475.554	528+66.094	11.941	476.562
S30M-12N	523+25.310	62.898	230.442	523+29.218	62.542	232.109	523+44.880	61.118	238.789	523+51.756	60.493	241.722	523+70.282	58.808	249.623	528+60.051	14.265	466.090	528+66.551	13.674	469.054	528+66.075	13.443	470.053
S30M-11N	523+71.057	62.895	229.978	523+74.718	62.542	231.645	523+89.338	61.134	238.301	523+95.756	60.516	241.223	524+13.050	58.851	249.096	528+60.051	15.801	459.406	528+66.551	15.175	462.554	528+66.085	14.962	463.474
S30M-10N	524+16.820	62.892	229.407	524+20.218	62.542	231.073	524+33.751	61.152	237.711	524+39.692	60.541	240.625	524+55.699	58.896	248.476	528+60.051	17.343	452.686	528+66.551	16.675	456.054	528+66.060	16.466	456.961
S30M-9N	524+62.598	62.888	228.728	524+65.718	62.542	230.395	524+78.118	61.170	237.020	524+83.561	60.567	239.928	524+98.227	58.944	247.764	528+60.051	18.895	445.916	528+66.551	18.176	449.554	528+66.030	17.970	450.445
S30M-8N	525+08.391	62.883	227.942	525+11.218	62.542	229.609	525+22.444	61.188	236.228	525+27.372	60.594	239.133	525+40.650	58.992	246.961	528+60.051	20.461	439.075	528+66.551	19.677	443.054	528+66.080	19.507	443.791
S30M-7N	525+54.195	62.879	227.049	525+56.718	62.542	228.716	525+66.737	61.205	235.335	525+71.134	60.618	238.240	525+82.983	59.036	246.068	528+60.051	22.045	432.125	528+66.551	21.177	436.554	528+66.043	21.013	437.267
S30M-6N	526+00.013	62.875	226.049	526+02.218	62.542	227.716	526+10.982	61.221	234.341	526+14.829	60.640	237.249	526+25.194	59.077	245.085	528+60.051	23.658	425.014	528+66.551	22.678	430.054	528+65.999	22.521	430.736
S30M-5N	526+45.846	62.870	224.942	526+47.718	62.542	226.609	526+55.173	61.235	233.248	526+58.444	60.662	236.162	526+67.260	59.116	244.014	528+60.051	25.318	417.641	528+66.551	24.178	423.554	528+65.946	24.031	424.191
S30M-4N	526+91.694	62.865	223.727	526+93.218	62.542	225.394	526+99.309	61.251	232.056	527+01.982	60.684	234.979	527+09.185	59.157	242.857	528+60.051	27.173	409.323	528+66.551	25.795	416.554	528+65.884	25.662	417.129
S30M-3N	527+37.558	62.860	222.406	527+38.718	62.542	224.072	527+43.373	61.267	230.765	527+45.416	60.708	233.701	527+50.920	59.200	241.615	528+60.051	29.307	399.584	528+66.551	27.526	409.054	528+65.891	27.426	409.489
S30M-2N	527+83.445	62.854	220.977	527+84.218	62.542	222.644	527+87.340	61.284	229.377	527+88.711	60.732	232.331	527+92.403	59.245	240.292	528+60.051	31.992	386.896	528+66.551	29.373	401.054	528+65.882	29.305	401.349
S30M-1N	528+29.359	62.847	219.441	528+29.718	62.542	221.108	528+31.177	61.301	227.893	528+31.817	60.757	230.870	528+33.542	59.290	238.893	528+60.051	36.747	362.586	528+66.551	31.220	393.054	528+65.832	31.186	393.202
S30B-1N	529+20.736	62.841	216.061	529+20.384	62.542	217.727	529+18.930	61.306	224.622	529+18.292	60.763	227.647	529+16.573	59.301	235.798	528+90.051	36.747	361.984	528+83.551	31.220	393.054	528+84.270	31.187	393.199
S30B-2N	529+66.629	62.842	214.243	529+65.884	62.542	215.909	529+62.772	61.289	222.872	529+61.407	60.739	225.927	529+57.728	59.256	234.158	528+90.051	31.992	386.361	528+83.551	29.373	401.054	528+84.224	29.307	401.340
S30B-3N	530+12.484	62.844	212.423	530+11.384	62.542	214.090	530+06.750	61.273	221.114	530+04.717	60.716	224.195	529+99.238	59.215	232.499	528+90.051	29.307	399.076	528+83.551	27.526	409.054	528+84.222	27.429	409.474
S30B-4N	530+58.311	62.845	210.604	530+56.884	62.542	212.271	530+50.824	61.257	219.352	530+48.165	60.694	222.458	530+41.000	59.175	230.829	528+90.051	27.173	408.824	528+83.551	25.795	416.554	528+84.237	25.667	417.108
S30B-5N	531+04.115	62.846	208.785	531+02.384	62.542	210.452	530+94.976	61.244	217.587	530+91.726	60.674	220.717	530+82.969	59.139	229.151	528+90.051	25.318	417.152	528+83.551	24.178	423.554	528+84.181	24.037	424.168
S30B-6N	531+49.900	62.846	206.966	531+47.884	62.542	208.632	531+39.193	61.232	215.819	531+35.381	60.657	218.971	531+25.107	59.107	227.466	528+90.051	23.658	424.536	528+83.551	22.678	430.054	528+84.132	22.526	430.712
S30B-7N	531+95.664	62.847	205.146	531+93.384	62.542	206.813	531+83.492	61.222	214.047	531+79.152	60.642	217.221	531+67.457	59.081	225.773	528+90.051	22.045	431.665	528+83.551	21.177	436.554	528+84.091	21.018	437.244
S30B-8N	532+41.411	62.847	203.327	532+38.884	62.542	204.994	532+27.847	61.211	212.274	532+23.006	60.627	215.468	532+09.959	59.053	224.073	528+90.051	20.461	438.630	528+83.551	19.677	443.054	528+84.057	19.512	443.769
S30B-9N	532+87.147	62.848	201.508	532+84.384	62.542	203.175	532+72.245	61.199	210.499	532+66.919	60.609	213.712	532+52.569	59.021	222.370	528+90.051	18.895	445.482	528+83.551	18.176	449.554	528+84.071	17.992	450.351
S30B-10N	533+32.874	62.850	199.689	533+29.884	62.542	201.355	533+16.672	61.185	208.723	533+10.876	60.589	211.954	532+95.257	58.984	220.663	528+90.051	17.343	452.257	528+83.551	16.675	456.054	528+84.087	16.472	456.936
S30B-11N	533+78.588	62.851	197.870	533+75.384	62.542	199.536	533+61.143	61.171	206.944	533+54.895	60.569	210.194	533+38.060	58.948	218.952	528+90.051	15.801	458.980	528+83.551	15.175	462.554	528+84.063	14.968	463.450
S30B-12N	534+17.748	62.852	196.310	534+14.384	62.542	197.977	533+99.371	61.160	205.416	533+92.785	60.554	208.679	533+75.038	58.920	217.473	528+90.051	14.272	465.633	528+83.551	13.674	469.054	528+84.083	13.450	470.026
S30B-13N	534+29.655	62.854	195.834	534+26.301	62.542	197.500	534+11.333	61.153	204.938	534+04.767	60.544	208.200	533+87.073	58.902	216.992	528+90.051	12.777	472.120	528+83.551	12.173	475.554	528+84.085	11.949	476.525
S30B-14N	534+41.562	62.855	195.357	534+38.218	62.542	197.024	534+23.298	61.147	204.459	534+16.753	60.535	207.721	533+99.116	58.886	216.510	528+90.051	11.281	478.609	528+83.551	10.673	482.054	528+84.086	10.449	483.024
S30B-15N	534+53.473	62.857	194.881	534+50.134	62.542	196.548	534+35.244	61.140	203.982	534+28.712	60.524	207.243	534+11.109	58.866	216.031	528+90.051	9.784	485.096	528+83.551	9.172	488.554	528+84.142	8.926	489.622

NOTES:

1. FOR STAY CABLE GEOMETRY DETAILS, SEE "STAY CABLE - GEOMETRY 1" SHEET.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
STAY CABLE
GEOMETRY 2

MRB-S04-BR-40634.dgn
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12:00:02 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40635

SOUTH STAY CABLE GEOMETRY

	WP B1			WP B2			WP B3			WP B4			WP B5			WP T1			WP T2			WP T3		
STAY	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV	STA	OFFSET	ELEV
S29B-15S	509+01.614	-62.858	197.869	509+04.968	-62.542	199.536	509+19.857	-61.140	206.934	509+26.389	-60.525	210.180	509+43.991	-58.867	218.927	514+65.051	-9.784	486.750	514+71.551	-9.172	490.193	514+70.962	-8.925	491.262
S29B-14S	509+13.524	-62.857	198.318	509+16.884	-62.542	199.984	509+31.803	-61.147	207.384	509+38.348	-60.535	210.630	509+55.985	-58.886	219.378	514+65.051	-11.281	480.264	514+71.551	-10.673	483.693	514+71.018	-10.448	484.664
S29B-13S	509+25.431	-62.855	198.766	509+28.801	-62.542	200.433	509+43.768	-61.153	207.834	509+50.334	-60.544	211.081	509+68.027	-58.902	219.831	514+65.051	-12.777	473.775	514+71.551	-12.173	477.193	514+71.019	-11.949	478.165
S29B-12S	509+37.338	-62.853	199.214	509+40.718	-62.542	200.881	509+55.730	-61.160	208.284	509+62.315	-60.554	211.532	509+80.062	-58.920	220.284	514+65.051	-14.272	467.287	514+71.551	-13.674	470.693	514+71.021	-13.449	471.666
S29B-11S	509+76.499	-62.852	200.682	509+79.718	-62.542	202.349	509+93.958	-61.171	209.723	510+00.206	-60.569	212.958	510+17.041	-58.948	221.676	514+65.051	-15.801	460.634	514+71.551	-15.175	464.193	514+71.040	-14.968	465.090
S29B-10S	510+22.216	-62.851	202.395	510+25.218	-62.542	204.061	510+38.429	-61.185	211.397	510+44.226	-60.589	214.615	510+59.844	-58.984	223.287	514+65.051	-17.343	453.911	514+71.551	-16.675	457.693	514+71.016	-16.471	458.576
S29B-9S	510+67.944	-62.849	204.107	510+70.718	-62.542	205.774	510+82.857	-61.199	213.069	510+88.183	-60.609	216.269	511+02.534	-59.021	224.893	514+65.051	-18.895	447.137	514+71.551	-18.176	451.193	514+71.033	-17.992	451.991
S29B-8S	511+13.682	-62.848	205.819	511+16.218	-62.542	207.486	511+27.254	-61.211	214.739	511+32.096	-60.627	217.922	511+45.144	-59.053	226.497	514+65.051	-20.461	440.284	514+71.551	-19.677	444.693	514+71.046	-19.511	445.408
S29B-7S	511+59.431	-62.848	207.532	511+61.718	-62.542	209.198	511+71.610	-61.222	216.409	511+75.950	-60.642	219.572	511+87.645	-59.081	228.096	514+65.051	-22.045	433.320	514+71.551	-21.177	438.193	514+71.012	-21.018	438.884
S29B-6S	512+05.196	-62.847	209.244	512+07.218	-62.542	210.911	512+15.909	-61.232	218.076	512+19.722	-60.657	221.219	512+29.996	-59.107	229.690	514+65.051	-23.658	426.191	514+71.551	-22.678	431.693	514+70.971	-22.526	432.352
S29B-5S	512+50.983	-62.846	210.956	512+52.718	-62.542	212.623	512+60.126	-61.244	219.740	512+63.376	-60.674	222.862	512+72.134	-59.139	231.276	514+65.051	-25.318	418.807	514+71.551	-24.178	425.193	514+70.922	-24.037	425.808
S29B-4S	512+96.788	-62.845	212.669	512+98.218	-62.542	214.335	513+04.278	-61.257	221.402	513+06.937	-60.694	224.502	513+14.102	-59.175	232.856	514+65.051	-27.173	410.479	514+71.551	-25.795	418.193	514+70.866	-25.667	418.748
S29B-3S	513+42.616	-62.844	214.381	513+43.718	-62.542	216.048	513+48.352	-61.273	223.060	513+50.386	-60.716	226.137	513+55.865	-59.215	234.427	514+65.051	-29.307	400.731	514+71.551	-27.526	410.693	514+70.881	-27.429	411.113
S29B-2S	513+88.472	-62.843	216.094	513+89.218	-62.542	217.760	513+92.330	-61.289	224.715	513+93.695	-60.739	227.767	513+97.374	-59.256	235.989	514+65.051	-31.992	388.017	514+71.551	-29.373	402.693	514+70.878	-29.307	402.980
S29B-1S	514+34.366	-62.841	217.805	514+34.718	-62.542	219.471	514+36.172	-61.306	226.362	514+36.810	-60.763	229.386	514+38.530	-59.301	237.532	514+65.051	-36.747	363.641	514+71.551	-31.220	394.693	514+70.832	-31.187	394.838
S29M-1S	515+25.743	-62.847	220.972	515+25.384	-62.542	222.639	515+23.925	-61.302	229.427	515+23.285	-60.757	232.406	515+21.560	-59.290	240.432	514+95.051	-36.747	364.206	514+88.551	-31.220	394.693	514+89.270	-31.186	394.840
S29M-2S	515+71.656	-62.853	222.401	515+70.884	-62.542	224.068	515+67.762	-61.285	230.808	515+66.392	-60.733	233.765	515+62.700	-59.245	241.735	514+95.051	-31.992	388.517	514+88.551	-29.373	402.693	514+89.220	-29.305	402.988
S29M-3S	516+17.542	-62.859	223.723	516+16.384	-62.542	225.390	516+11.730	-61.267	232.093	516+09.687	-60.708	235.034	516+04.183	-59.200	242.960	514+95.051	-29.307	401.206	514+88.551	-27.526	410.693	514+89.212	-27.426	411.127
S29M-4S	516+63.405	-62.865	224.938	516+61.884	-62.542	226.605	516+55.794	-61.251	233.280	516+53.121	-60.684	236.210	516+45.919	-59.158	244.104	514+95.051	-27.173	410.946	514+88.551	-25.795	418.193	514+89.219	-25.662	418.767
S29M-5S	517+09.251	-62.869	226.046	517+07.384	-62.542	227.713	516+99.931	-61.236	234.369	516+96.659	-60.662	237.291	516+87.844	-59.117	245.163	514+95.051	-25.318	419.264	514+88.551	-24.178	425.193	514+89.157	-24.032	425.829
S29M-6S	517+55.082	-62.874	227.046	517+52.884	-62.542	228.713	517+44.121	-61.221	235.359	517+40.275	-60.641	238.276	517+29.911	-59.078	246.135	514+95.051	-23.658	426.637	514+88.551	-22.678	431.693	514+89.104	-22.521	432.374
S29M-7S	518+00.898	-62.878	227.940	517+98.384	-62.542	229.606	517+88.367	-61.205	236.248	517+83.969	-60.618	239.164	517+72.121	-59.036	247.019	514+95.051	-22.045	433.748	514+88.551	-21.177	438.193	514+89.060	-21.013	438.906
S29M-8S	518+46.700	-62.882	228.726	518+43.884	-62.542	230.392	518+32.659	-61.188	237.037	518+27.732	-60.594	239.954	518+14.455	-58.992	247.813	514+95.051	-20.461	440.698	514+88.551	-19.677	444.693	514+89.024	-19.507	445.429
S29M-9S	518+92.490	-62.886	229.405	518+89.384	-62.542	231.071	518+76.986	-61.170	237.725	518+71.543	-60.568	240.646	518+56.878	-58.944	248.517	514+95.051	-18.895	447.539	514+88.551	-18.176	451.193	514+89.074	-17.970	452.083
S29M-10S	519+38.266	-62.890	229.976	519+34.884	-62.542	231.643	519+21.352	-61.152	238.312	519+15.412	-60.541	241.240	518+99.405	-58.896	249.129	514+95.051	-17.343	454.309	514+88.551	-16.675	457.693	514+89.044	-16.466	458.599
S29M-11S	519+84.026	-62.893	230.441	519+80.384	-62.542	232.108	519+65.765	-61.134	238.798	519+59.347	-60.516	241.735	519+42.054	-58.851	249.648	514+95.051	-15.801	461.030	514+88.551	-15.175	464.193	514+89.018	-14.963	465.112
S29M-12S	520+29.770	-62.896	230.799	520+25.884	-62.542	232.465	520+10.224	-61.118	239.182	520+03.348	-60.493	242.131	519+84.823	-58.808	250.076	514+95.051	-14.265	467.714	514+88.551	-13.674	470.693	514+89.029	-13.444	471.691
S29M-13S	520+75.513	-62.899	231.049	520+71.384	-62.542	232.715	520+54.670	-61.098	239.463	520+47.331	-60.464	242.426	520+27.559	-58.755	250.408	514+95.051	-12.735	474.360	514+88.551	-12.173	477.193	514+89.010	-11.941	478.200
S29M-14S	521+21.247	-62.903	231.192	521+16.884	-62.542	232.859	520+99.124	-61.076	239.643	520+91.327	-60.433	242.622	520+70.317	-58.698	250.647	514+95.051	-11.209	480.982	514+88.551	-10.673	483.693	514+89.038	-10.415	484.810
S29M-15S	521+66.968	-62.905	231.228	521+62.384	-62.542	232.894	521+43.612	-61.055	239.720	521+35.370	-60.403	242.717	521+13.164	-58.644	250.792	514+95.051	-9.687	487.588	514+88.551	-9.172	490.193	514+89.022	-8.913	491.316
S30M-15S	521+88.103	-62.908	231.192	521+92.718	-62.542	232.859	522+11.495	-61.055	239.641	522+19.738	-60.402	242.618	522+41.950	-58.643	250.640	528+60.051	-9.687	485.964	528+66.551	-9.172	488.554	528+66.083	-8.913	489.678
S30M-14S	522+33.827	-62.905	231.049	522+38.218	-62.542	232.716	522+55.981	-61.076	239.459	522+63.780	-60.432	242.419	522+84.793	-58.698	250.395	528+60.051	-11.209	479.359	528+66.551	-10.673	482.054	528+66.066	-10.415	483.172
S30M-13S	522+79.565	-62.901	230.800	522+83.718	-62.542	232.466	523+00.435	-61.098	239.175	523+07.773	-60.463	242.120	523+27.548	-58.755	250.056	528+60.051	-12.735	472.737	528+66.551	-12.173	475.554	528+66.094	-11.941	476.562
S30M-12S	523+25.310	-62.898	230.442	523+29.218	-62.542	232.109	523+44.880	-61.118	238.789	523+51.756	-60.493	241.722	523+70.282	-58.808	249.623	528+60.051	-14.265	466.090	528+66.551	-13.674	469.054	528+66.075	-13.443	470.053
S30M-11S	523+71.057	-62.895	229.978	523+74.718	-62.542	231.645	523+89.338	-61.134	238.301	523+95.756	-60.516	241.223	524+13.050	-58.851	249.096	528+60.051	-15.801	459.406	528+66.551	-15.175	462.554	528+66.085	-14.962	463.474
S30M-10S	524+16.820	-62.892	229.407	524+20.218	-62.542	231.073	524+33.751	-61.152	237.711	524+39.692	-60.541	240.625	524+55.699	-58.896	248.476	528+60.051	-17.343	452.686	528+66.551	-16.675	456.054	528+66.060	-16.466	456.961
S30M-9S	524+62.598	-62.888	228.728	524+65.718	-62.542	230.395	524+78.118	-61.170	237.020	524+83.561	-60.567	239.938	524+98.227	-58.944	247.764	528+60.051	-18.895	445.916	528+66.551	-18.176	449.554	528+66.030	-17.970	450.445
S30M-8S	525+08.391	-62.883	227.942	525+11.218	-62.542	229.609	525+22.444	-61.188	236.228	525+27.372	-60.594	239.133	525+40.650	-58.992	246.961	528+60.051	-20.461	439.075	528+66.551	-19.677	443.054	528+66.080	-19.507	443.791
S30M-7S	525+54.195	-62.879	227.049	525+56.718	-62.542	228.716	525+66.737	-61.205	235.335	525+71.134	-60.618	238.240	525+82.983	-59.036	246.068	528+60.051	-22.045	432.125	528+66.551	-21.177	436.554	528+66.043	-21.013	437.267
S30M-6S	526+00.013	-62.875	226.049	526+02.218	-62.542	227.716	526+10.982	-61.221	234.341	526+14.829	-60.640	237.249	526+25.194	-59.077	245.085	528+60.051	-23.658	425.014	528+66.551	-22.678	430.054	528+65.999	-22.521	430.736
S30M-5S	526+45.846	-62.870	224.942	526+47.718	-62.542	226.609	526+55.173	-61.235	233.248	526+58.444	-60.662	236.162	526+67.260	-59.116	244.014	528+60.051	-25.318	417.641	528+66.551	-24.178	423.554	528+65.946	-24.031	424.191
S30M-4S	526+91.694	-62.865	223.727	526+93.218	-62.542	225.394	526+99.309	-61.251	232.056	527+01.982	-60.684	234.979	527+09.185	-59.157	242.857	528+60.051	-27.173	409.323	528+66.551	-25.795	416.554	528+65.884	-25.662	417.129
S30M-3S	527+37.558	-62.860	222.406	527+38.718	-62.542	224.072	527+43.373	-61.267	230.765	527+45.416	-60.708	233.701	527+50.920	-59.200	241.615	528+60.051	-29.307	399.584	528+66.551	-27.526	409.054	528+65.891	-27.426	409.489
S30M-2S	527+83.445	-62.854	220.977	527+84.218	-62.542	222.644	527+87.340	-61.284	229.377	527+88.711	-60.732	232.331	527+92.403	-59.245	240.292	528+60.051	-31.992	386.896	528+66.551	-29.373	401.054	528+65.882	-29.305	401.349
S30M-1S	528+29.359	-62.847	219.441	528+29.718	-62.542	221.108	528+31.177	-61.301	227.893	528+31.817	-60.757	230.870	528+33.542	-59.290	238.893	528+60.051	-36.747	362.586	528+66.551	-31.220	393.054	528+65.832	-31.186	393.202
S30B-1S	529+20.736	-62.841	216.061	529+20.384	-62.542	217.727	529+18.930	-61.306	224.622	529+18.292	-60.763	227.647	529+16.573	-59.301	235.798	528+90.051	-36.747	361.984	528+83.551	-31.220	393.054	528+84.270	-31.187	393.199
S30B-2S	529+66.629	-62.842	214.243	529+65.884	-62.542	215.909	529+62.772	-61.289	222.872	529+61.407	-60.739	225.927	529+57.728	-59.256	234.158	528+90.051	-31.992	386.361	528+83.551	-29.373	401.054	528+84.224	-29.307	401.340
S30B-3S	530+12.484	-62.844	212.423	530+11.384	-62.542	214.090	530+06.750	-61.273	221.114	530+04.717	-60.716	224.195	529+99.238	-59.215	232.499	528+90.051	-29.307	399.076	528+83.551	-27.526	409.054	528+84.222	-27.429	409.474
S30B-4S	530+58.311	-62.845	210.604	530+56.884	-62.542	212.271	530+50.824	-61.257	219.352	530+48.165	-60.694	222.458	530+41.000	-59.175	230.829	528+90.051	-27.173	408.824	528+83.551	-25.795	416.554	528+84.237	-25.667	417.108
S30B-5S	531+04.115	-62.846	208.785	531+02.384	-62.542	210.452	530+94.976	-61.244	217.587	530+91.726	-60.674	220.717	530+82.969	-59.139	229.151	528+90.051	-25.318	417.152	528+83.551	-24.178	423.554	528+84.181	-24.037	424.168
S30B-6S	531+49.900	-62.846	206.966	531+47.884	-62.542	208.632	531+39.193	-61.232	215.819	531+35.381	-60.657	218.971	531+25.107	-59.107	227.466	528+90.051	-23.658	424.536	528+83.551	-22.678	430.054	528+84.132	-22.526	430.712
S30B-7S	531+95.664	-62.847	205.146	531+93.384	-62.542	206.813	531+83.492	-61.222	214.047	531+79.152	-60.642	217.221	531+67.458	-59.081	225.773	528+90.051	-22.045	431.665	528+83.551	-21.177	436.554	528+84.091	-21.018	437.244
S30B-8S	532+41.411	-62.847	203.327	532+38.884	-62.542	204.994	532+27.847	-61.211	212.274	532+23.006	-60.627	215.468	532+09.959	-59.053	224.073	528+90.051	-20.461	438.630	528+83.551	-19.677	443.054	528+84.057	-19.512	443.769
S30B-9S	532+87.147	-62.848	201.508	532+84.384	-62.542	203.175	532+72.245	-61.199	210.499	532+66.920	-60.609	213.712	532+52.569	-59.021	222.370	528+90.051	-18.895	445.482	528+83.551	-18.176	449.554	528+84.071	-17.992	450.351
S30B-10S	533+32.873	-62.850	199.689	533+29.884	-62.542	201.355	533+16.672	-61.185	208.723	533+10.876	-60.589	211.954	532+95.257	-58.984	220.663	528+90.051	-17.343	452.257	528+83.551	-16.675	456.054	528+84.087	-16.472	456.936
S30B-11S	533+78.588	-62.851	197.870	533+75.384	-62.542	199.536	533+61.143	-61.171	206.944	533+54.895	-60.569	210.194	533+38.060	-58.948	218.952	528+90.051	-15.801	458.980	528+83.551	-15.175	462.554	528+84.063	-14.968	463.450
S30B-12S	534+17.748	-62.852	196.310	534+14.384	-62.542	197.977	533+99.371	-61.160	205.416	533+92.785	-60.554	208.679	533+75.038	-58.920	217.473	528+90.051	-14.272	465.633	528+83.551	-13.674	469.054	528+84.083	-13.450	470.026
S30B-13S	534+29.655	-62.854	195.834	534+26.301	-62.542	197.500	534+11.333	-61.153	204.938	534+04.767	-60.544	208.200	533+87.074	-58.902	216.992	528+90.051	-12.777	472.120	528+83.551	-12.173	475.554	528+84.085	-11.949	476.525
S30B-14S	534+41.562	-62.855	195.357	534+38.218	-62.542	197.024	534+23.298	-61.147	204.459	534+16.753	-60.535	207.721	533+99.116	-58.886	216.510	528+90.051	-11.281	478.609	528+83.551	-10.673	482.054	528+84.086	-10.449	483.025
S30B-15S	534+53.473	-62.857	194.881	534+50.134	-62.542	196.548	534+35.244	-61.140	203.982	534+28.712	-60.524	207.243	534+11.110	-58.866	216.031	528+90.051	-9.784	485.096	528+83.551	-9.172	488.554	528+84.142	-8.926	489.622

NOTES:

1. FOR STAY CABLE GEOMETRY DETAILS, SEE "STAY CABLE - GEOMETRY 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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PLAN SUBMITTAL

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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STAY CABLE
GEOMETRY 3

MRB-S04-BR-40635.dgn
rweibel
12:00:11 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40636

NORTH STAY CABLE SCHEDULE

STAY	NUMBER OF STRANDS	STEEL AREA (IN^2)	ANCHOR SIZE	HDPE PIPE O.D. (IN)	DEAD LOADS (KIPS)			LIVE LOAD W/ IMPACT (KIPS, UNFACTORED)			WIND ON STRUCTURE (KIPS, 1400 YR, LF = 1.0)		THERMAL (KIPS, UNFACTORED)		LOAD COMBINATIONS (KIPS)			
					EOC	CR + SH	DAY 10000	MAX	MIN	FATIGUE RANGE	MAX	MIN	MAX	MIN	SERVICE	STRENGTH MAX	STRENGTH MIN	EXTREME 1 STAY LOSS
S29B-15N	95	22.135	109	12.40	1907	-10	1897	378	-139	43	937	-754	7	-12	2407	3532	775	2786
S29B-14N	88	20.504	91	11.02	1776	-12	1764	352	-133	41	859	-688	10	-15	2244	3276	723	2624
S29B-13N	83	19.339	91	11.02	1656	-14	1642	335	-131	40	805	-643	12	-17	2104	3060	655	2451
S29B-12N	77	17.941	91	11.02	1535	-16	1519	315	-126	38	746	-597	14	-19	1959	2837	592	2272
S29B-11N	73	17.009	75	9.84	1416	-17	1399	314	-121	37	733	-602	15	-18	1839	2668	451	2120
S29B-10N	65	15.145	75	9.84	1324	-14	1310	270	-81	29	600	-555	11	-14	1687	2406	417	1941
S29B-9N	56	13.048	61	8.86	1216	-9	1207	235	-47	26	390	-462	7	-8	1530	2062	452	1908
S29B-8N	51	11.883	55	7.87	1120	-5	1115	229	-26	30	290	-387	4	-4	1422	1920	477	1867
S29B-7N	49	11.417	55	7.87	1017	-2	1015	224	-12	31	281	-350	2	-2	1312	1775	450	1804
S29B-6N	51	11.883	55	7.87	934	1	935	235	-5	35	408	-442	2	-1	1248	1692	298	1806
S29B-5N	49	11.417	55	7.87	862	2	864	243	-24	36	455	-492	2	-2	1187	1642	198	1762
S29B-4N	43	10.019	48	7.87	777	0	778	223	-34	35	399	-432	2	-2	1078	1470	194	1625
S29B-3N	35	8.155	37	7.09	700	-4	696	189	-39	33	311	-305	3	-4	955	1289	261	1448
S29B-2N	30	6.990	31	6.30	610	-11	599	149	-45	30	246	-174	6	-10	815	1092	312	1240
S29B-1N	23	5.359	27	6.30	501	-16	484	71	-36	17	107	-67	11	-17	605	797	324	823
S29M-1N	23	5.359	27	6.30	509	-19	490	73	-37	18	85	-67	8	-15	613	811	330	842
S29M-2N	29	6.757	31	6.30	581	-11	570	145	-46	29	211	-116	7	-11	776	1041	347	1183
S29M-3N	34	7.922	37	7.09	643	-4	639	183	-38	32	337	-163	4	-5	884	1214	358	1359
S29M-4N	39	9.087	48	7.87	732	-1	732	205	-31	34	424	-268	1	-1	999	1425	328	1493
S29M-5N	42	9.786	48	7.87	797	1	798	215	-27	34	441	-361	0	0	1079	1533	285	1583
S29M-6N	45	10.485	48	7.87	882	1	883	226	-26	34	473	-442	1	-1	1180	1681	271	1690
S29M-7N	49	11.417	55	7.87	953	2	955	241	-28	36	514	-510	1	-1	1274	1822	259	1804
S29M-8N	55	12.815	55	7.87	1047	3	1050	263	-29	38	586	-571	3	-2	1401	2029	274	1971
S29M-9N	62	14.446	75	9.84	1153	4	1158	287	-30	40	656	-607	4	-2	1545	2250	322	2161
S29M-10N	70	16.310	75	9.84	1272	6	1278	307	-26	41	676	-608	6	-3	1695	2435	420	2343
S29M-11N	74	17.242	75	9.84	1374	6	1380	309	-17	40	723	-552	6	-4	1801	2621	563	2471
S29M-12N	76	17.708	91	11.02	1506	5	1511	305	-15	38	773	-602	5	-3	1924	2842	624	2631
S29M-13N	85	19.805	91	11.02	1642	2	1643	339	-35	42	821	-695	2	-2	2088	3060	641	2883
S29M-14N	92	21.436	109	12.40	1753	-5	1748	373	-71	46	762	-747	2	-5	2240	3142	660	3124
S29M-15N	99	23.067	109	12.40	1888	-16	1872	409	-121	52	807	-754	8	-14	2427	3368	729	3232
S30M-15N	99	23.067	109	12.40	1880	-16	1864	409	-121	52	923	-795	8	-14	2419	3479	680	3222
S30M-14N	92	21.436	109	12.40	1747	-5	1742	373	-71	46	799	-819	2	-5	2234	3174	580	3117
S30M-13N	85	19.805	91	11.02	1638	2	1640	339	-35	42	647	-776	2	-2	2084	2874	554	2878
S30M-12N	76	17.708	91	11.02	1504	5	1509	305	-15	38	558	-660	5	-3	1920	2614	562	2629
S30M-11N	74	17.242	75	9.84	1373	6	1379	309	-17	40	657	-589	6	-4	1800	2550	524	2470
S30M-10N	70	16.310	75	9.84	1272	6	1278	307	-26	41	675	-638	6	-3	1695	2434	388	2344
S30M-9N	62	14.446	75	9.84	1152	4	1156	287	-30	40	604	-601	4	-3	1543	2193	328	2160
S30M-8N	55	12.815	55	7.87	1047	3	1050	263	-29	38	492	-519	3	-2	1401	1929	327	1970
S30M-7N	49	11.417	55	7.87	953	2	955	241	-27	36	390	-499	1	-1	1274	1725	271	1804
S30M-6N	45	10.485	48	7.87	880	1	882	226	-26	34	359	-464	1	-1	1178	1597	247	1689
S30M-5N	42	9.786	48	7.87	796	1	797	215	-27	34	322	-396	0	0	1078	1463	248	1581
S30M-4N	39	9.087	48	7.87	732	-1	731	204	-31	33	260	-307	1	-1	999	1355	286	1492
S30M-3N	34	7.922	37	7.09	643	-4	639	183	-38	32	182	-270	3	-5	884	1196	246	1358
S30M-2N	29	6.757	31	6.30	581	-11	570	145	-46	29	128	-229	7	-11	776	1041	229	1183
S30M-1N	23	5.359	27	6.30	509	-19	491	73	-37	18	61	-107	8	-15	614	812	288	842
S30B-1N	23	5.359	27	6.30	501	-16	485	71	-35	17	70	-85	11	-17	605	797	306	823
S30B-2N	30	6.990	31	6.30	610	-11	600	149	-45	30	177	-218	6	-10	815	1093	266	1240
S30B-3N	35	8.155	37	7.09	700	-4	697	189	-39	33	229	-283	3	-4	955	1289	284	1448
S30B-4N	43	10.019	48	7.87	778	0	779	223	-34	35	341	-348	2	-2	1079	1462	283	1626
S30B-5N	49	11.417	55	7.87	863	2	865	243	-24	36	429	-452	2	-2	1189	1617	242	1765
S30B-6N	51	11.883	55	7.87	936	1	937	235	-5	35	426	-454	2	-1	1251	1710	287	1808
S30B-7N	49	11.417	55	7.87	1017	-2	1016	224	-12	31	355	-333	2	-2	1313	1776	468	1805
S30B-8N	51	11.883	55	7.87	1122	-5	1117	229	-26	30	315	-308	4	-4	1423	1922	562	1868
S30B-9N	56	13.048	61	8.86	1219	-9	1210	236	-47	26	381	-353	6	-7	1532	2064	570	1910
S30B-10N	65	15.145	75	9.84	1324	-14	1310	270	-81	29	543	-497	11	-13	1686	2345	479	1941
S30B-11N	73	17.009	75	9.84	1415	-17	1399	315	-121	37	639	-587	14	-18	1839	2569	467	2120
S30B-12N	77	17.941	91	11.02	1534	-15	1519	315	-126	38	645	-588	14	-18	1958	2730	601	2272
S30B-13N	83	19.339	91	11.02	1655	-14	1641	335	-131	40	696	-636	12	-16	2103	2944	663	2451
S30B-14N	88	20.504	91	11.02	1776	-12	1764	352	-133	41	742	-679	10	-14	2244	3152	732	2624
S30B-15N	95	22.135	109	12.40	1906	-10	1897	378	-139	43	810	-743	7	-12	2406	3397	788	2786

NOTES:

1. NUMBER OF STRANDS SHOWN IN TABLE INCLUDES (2) ADDITIONAL REFERENCE STRANDS PER STAY. STAY DESIGN CAPACITIES DO NOT CONSIDER THESE STRANDS.
2. STRENGTH LOAD COMBINATION DEMANDS INCLUDE AN OPERATIONAL IMPORTANCE FACTOR = 1.05 (1/1.05 FOR MINIMUM DEMANDS).
3. STAY SIZES ARE BASED ON USING 0.62 IN STRAND (A = 0.233 SQ IN) AND STANDARD ANCHORAGE AND HDPE PIPE SIZES.
4. ALL STAYS TO BE FURNISHED WITH DECK-LEVEL INTERNAL DAMPERS TO DISSIPATE VIBRATION ENERGY. DAMPER ASSEMBLY AND DESIGN BY OTHERS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

STAY CABLE

SCHEDULE 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40636.dgn

rweibel

12:00:19 PM

3/14/2025

2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40637

SOUTH STAY CABLE SCHEDULE

STAY	NUMBER OF STRANDS	STEEL AREA (IN^2)	ANCHOR SIZE	HDPE PIPE O.D. (IN)	DEAD LOADS (KIPS)			LIVE LOAD W/ IMPACT (KIPS, UNFACTORED)			WIND ON STRUCTURE (KIPS, 1400 YR, LF = 1.0)		THERMAL (KIPS, UNFACTORED)		LOAD COMBINATIONS (KIPS)			
					EOC	CR + SH	DAY 10000	MAX	MIN	FATIGUE RANGE	MAX	MIN	MAX	MIN	SERVICE	STRENGTH MAX	STRENGTH MIN	EXTREME 1 STAY LOSS
S29B-15S	95	22.135	109	12.40	1908	-10	1897	378	-138	43	1063	-650	7	-12	2424	3665	886	2787
S29B-14S	88	20.504	91	11.02	1777	-12	1765	352	-133	41	979	-590	10	-14	2259	3403	826	2625
S29B-13S	83	19.339	91	11.02	1656	-14	1642	335	-131	40	922	-549	12	-17	2116	3183	755	2453
S29B-12S	77	17.941	91	11.02	1535	-16	1520	315	-126	38	857	-508	14	-18	1969	2955	686	2273
S29B-11S	73	17.009	75	9.84	1417	-17	1400	314	-120	37	847	-508	14	-18	1849	2789	551	2121
S29B-10S	65	15.145	75	9.84	1325	-14	1311	270	-81	29	684	-477	11	-13	1690	2495	501	1942
S29B-9S	56	13.048	61	8.86	1217	-9	1208	235	-47	26	422	-410	7	-8	1530	2073	508	1909
S29B-8S	51	11.883	55	7.87	1121	-5	1116	229	-26	30	388	-356	4	-4	1422	1920	510	1867
S29B-7S	49	11.417	55	7.87	1017	-2	1015	224	-12	31	380	-378	2	-2	1312	1775	420	1804
S29B-6S	51	11.883	55	7.87	934	1	935	235	-5	35	529	-487	2	-1	1248	1816	250	1806
S29B-5S	49	11.417	55	7.87	862	2	864	243	-24	36	551	-496	2	-2	1187	1743	194	1762
S29B-4S	43	10.019	48	7.87	777	0	778	223	-34	35	461	-427	2	-2	1078	1535	199	1625
S29B-3S	35	8.155	37	7.09	700	-4	696	189	-39	33	338	-319	3	-4	955	1297	246	1447
S29B-2S	30	6.990	31	6.30	610	-11	599	149	-45	30	262	-209	6	-11	815	1094	276	1240
S29B-1S	23	5.359	27	6.30	501	-16	484	71	-36	17	113	-80	11	-17	605	797	311	823
S29M-1S	23	5.359	27	6.30	509	-19	490	73	-37	18	96	-53	8	-15	614	811	333	842
S29M-2S	29	6.757	31	6.30	581	-11	570	145	-46	29	243	-169	7	-11	776	1041	291	1183
S29M-3S	34	7.922	37	7.09	643	-4	639	183	-38	32	371	-277	4	-5	885	1249	239	1359
S29M-4S	39	9.087	48	7.87	732	-1	732	205	-31	34	455	-357	1	-2	999	1458	235	1493
S29M-5S	42	9.786	48	7.87	797	1	798	215	-27	34	470	-440	0	0	1079	1563	203	1583
S29M-6S	45	10.485	48	7.87	882	1	883	226	-26	35	453	-498	1	0	1180	1660	213	1690
S29M-7S	49	11.417	55	7.87	953	2	955	241	-28	36	546	-553	2	-1	1274	1856	214	1804
S29M-8S	55	12.815	55	7.87	1047	3	1050	263	-29	38	652	-677	3	-2	1402	2098	162	1971
S29M-9S	62	14.446	75	9.84	1153	4	1158	287	-30	40	731	-780	4	-3	1548	2329	140	2161
S29M-10S	70	16.310	75	9.84	1272	6	1278	307	-27	41	769	-838	6	-4	1697	2532	177	2343
S29M-11S	74	17.242	75	9.84	1373	6	1380	309	-17	40	749	-812	6	-4	1801	2648	291	2471
S29M-12S	76	17.708	91	11.02	1506	5	1511	305	-15	38	857	-716	5	-4	1935	2930	504	2631
S29M-13S	85	19.805	91	11.02	1641	2	1643	339	-35	42	978	-782	2	-2	2106	3225	550	2883
S29M-14S	92	21.436	109	12.40	1753	-5	1748	373	-71	46	992	-837	3	-5	2249	3383	565	3124
S29M-15S	99	23.067	109	12.40	1888	-16	1872	409	-121	52	1043	-850	7	-14	2432	3615	628	3232
S30M-15S	99	23.067	109	12.40	1880	-16	1864	409	-121	52	1258	-891	7	-14	2450	3831	578	3222
S30M-14S	92	21.436	109	12.40	1747	-5	1742	373	-71	46	1172	-892	3	-5	2266	3565	503	3117
S30M-13S	85	19.805	91	11.02	1638	2	1640	339	-35	42	1019	-817	2	-2	2107	3264	510	2877
S30M-12S	76	17.708	91	11.02	1504	5	1509	305	-15	38	830	-783	5	-4	1930	2900	433	2629
S30M-11S	74	17.242	75	9.84	1373	6	1379	309	-17	40	917	-860	6	-4	1820	2824	240	2470
S30M-10S	70	16.310	75	9.84	1272	6	1278	307	-26	41	901	-838	6	-4	1713	2671	178	2344
S30M-9S	62	14.446	75	9.84	1152	4	1156	287	-30	40	779	-724	4	-3	1552	2376	198	2160
S30M-8S	55	12.815	55	7.87	1047	3	1050	263	-29	38	616	-582	3	-2	1401	2060	261	1970
S30M-7S	49	11.417	55	7.87	953	2	955	241	-27	36	459	-521	2	-1	1274	1764	248	1804
S30M-6S	45	10.485	48	7.87	880	1	882	226	-26	34	471	-480	1	0	1178	1677	230	1689
S30M-5S	42	9.786	48	7.87	796	1	797	215	-27	34	454	-404	0	0	1078	1546	240	1581
S30M-4S	39	9.087	48	7.87	732	-1	731	204	-31	33	379	-319	1	-2	999	1377	274	1492
S30M-3S	34	7.922	37	7.09	643	-4	639	183	-38	32	266	-324	4	-5	884	1196	189	1358
S30M-2S	29	6.757	31	6.30	581	-11	570	145	-46	29	156	-246	7	-11	776	1041	211	1183
S30M-1S	23	5.359	27	6.30	509	-19	490	73	-37	18	87	-100	8	-15	614	812	296	842
S30B-1S	23	5.359	27	6.30	501	-16	485	71	-35	17	88	-93	11	-17	605	797	298	823
S30B-2S	30	6.990	31	6.30	610	-11	600	149	-45	30	213	-205	6	-10	815	1093	279	1240
S30B-3S	35	8.155	37	7.09	700	-4	697	189	-39	33	325	-264	3	-4	955	1289	304	1448
S30B-4S	43	10.019	48	7.87	778	0	779	223	-34	35	517	-326	2	-2	1079	1595	306	1626
S30B-5S	49	11.417	55	7.87	863	2	865	243	-24	36	647	-396	2	-2	1195	1846	300	1765
S30B-6S	51	11.883	55	7.87	936	1	937	235	-5	35	640	-409	2	-1	1258	1936	334	1808
S30B-7S	49	11.417	55	7.87	1018	-2	1016	224	-12	31	473	-309	2	-2	1313	1862	494	1806
S30B-8S	51	11.883	55	7.87	1122	-5	1117	229	-26	30	376	-267	4	-4	1424	1922	605	1869
S30B-9S	56	13.048	61	8.86	1219	-9	1210	236	-47	26	474	-267	6	-7	1532	2130	660	1911
S30B-10S	65	15.145	75	9.84	1325	-14	1311	270	-81	29	639	-412	11	-13	1687	2447	569	1942
S30B-11S	73	17.009	75	9.84	1416	-17	1400	315	-121	37	731	-498	14	-18	1840	2666	562	2121
S30B-12S	77	17.941	91	11.02	1535	-15	1520	316	-126	38	729	-505	14	-18	1959	2819	688	2273
S30B-13S	83	19.339	91	11.02	1656	-14	1642	335	-131	40	783	-548	12	-16	2104	3037	755	2453
S30B-14S	88	20.504	91	11.02	1777	-12	1765	352	-133	41	832	-588	10	-14	2245	3248	828	2625
S30B-15S	95	22.135	109	12.40	1907	-10	1897	378	-139	43	906	-645	7	-12	2407	3499	891	2788

NOTES:

1. FOR NOTES, SEE "STAY CABLE - SCHEDULE 1" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

STAY CABLE

SCHEDULE 2

PRELIMINARY

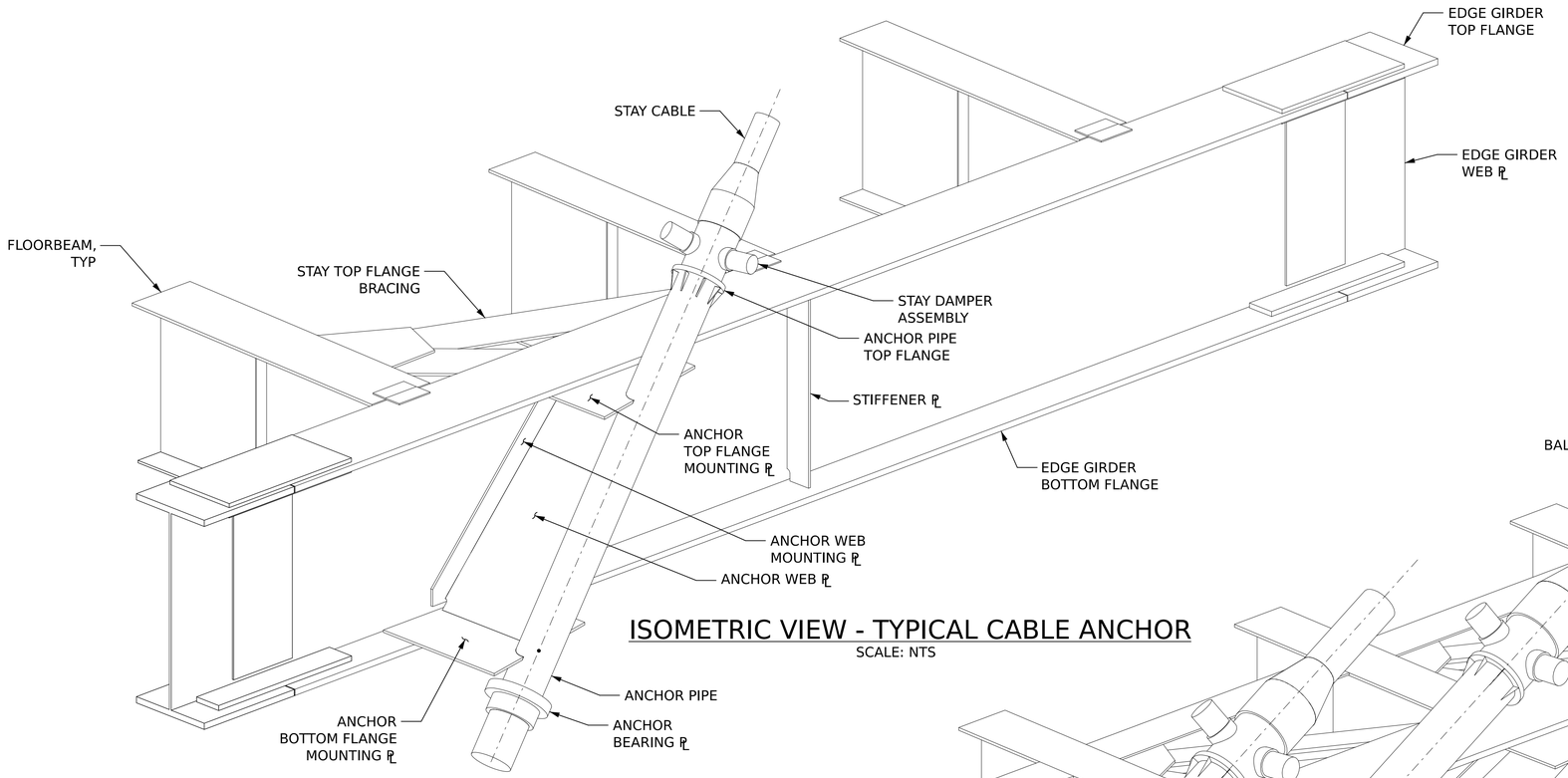
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40637.dgn rweibel 12:00:28 PM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40641

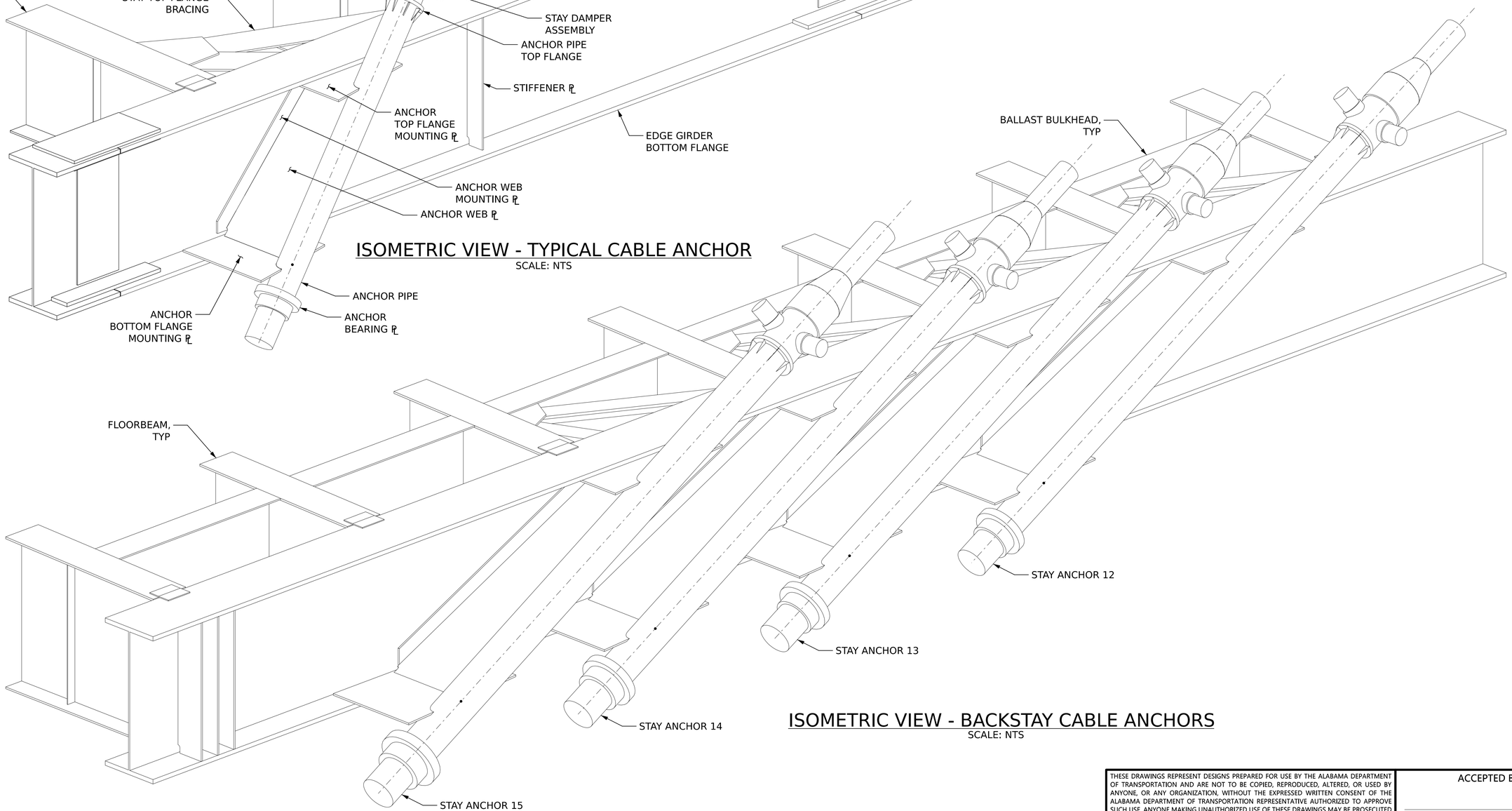
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



ISOMETRIC VIEW - TYPICAL CABLE ANCHOR

SCALE: NTS



ISOMETRIC VIEW - BACKSTAY CABLE ANCHORS

SCALE: NTS

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

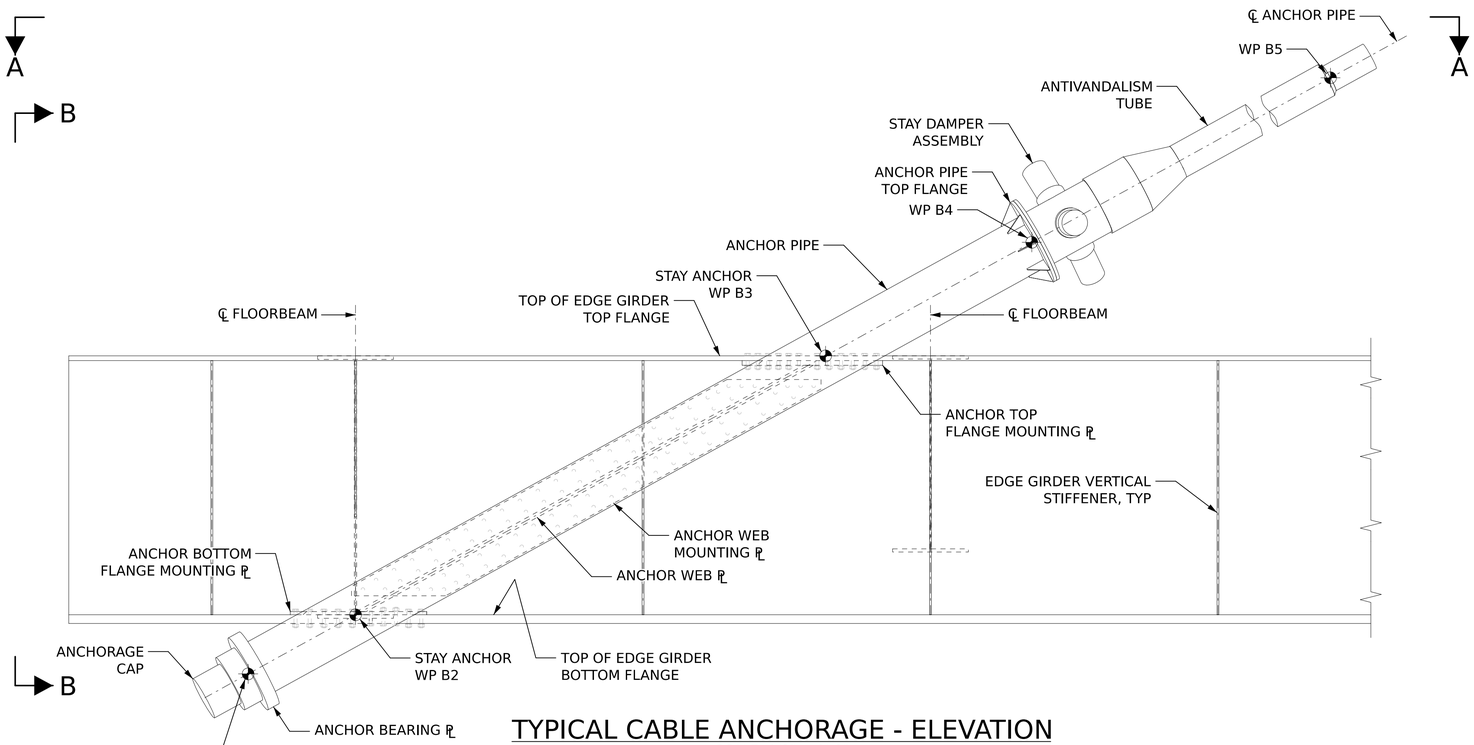
SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR
ISOMETRIC DETAILS

MRB-S04-BR-40641.dgn
rweibel
12:00:36 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40643

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

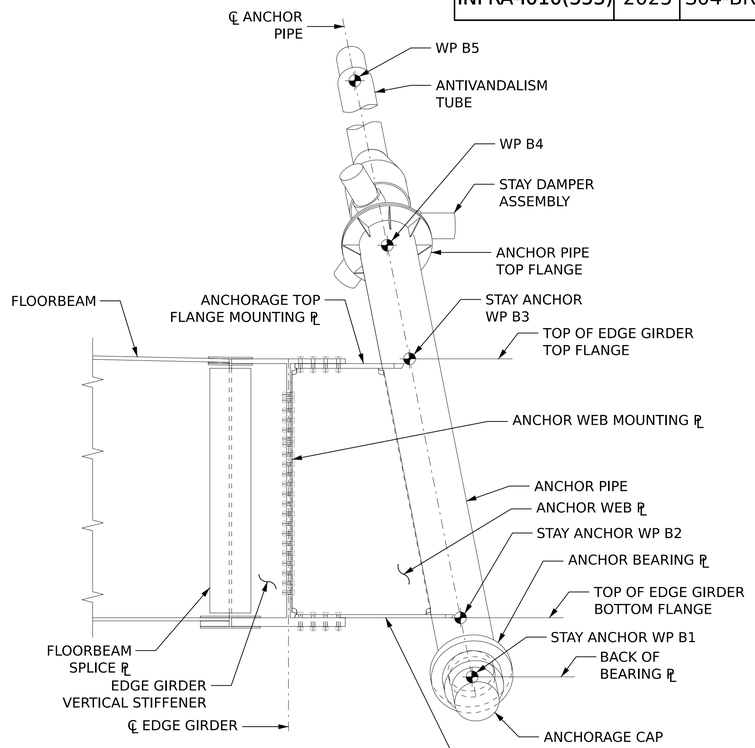
SHEET REFERENCE 0 1" 2"



TYPICAL CABLE ANCHORAGE - ELEVATION

SCALE: 1/2" = 1'-0"

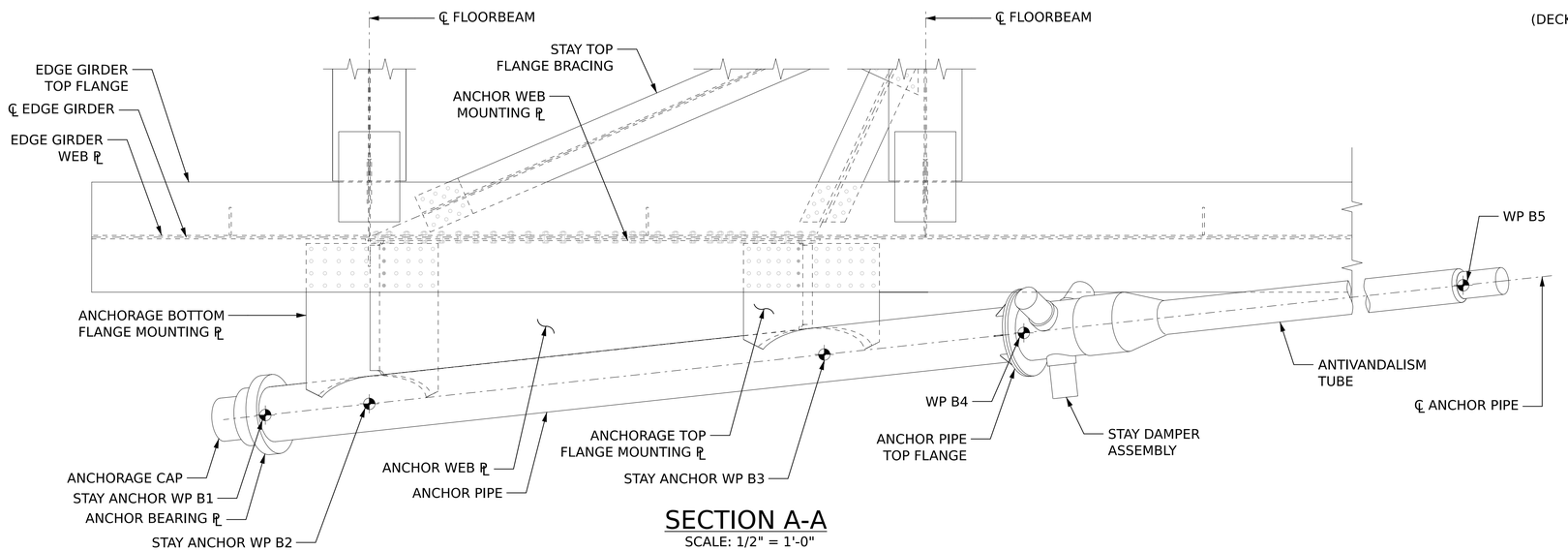
(DECK SHEAR STUDS AND STAY TOP FLANGE BRACING NOT SHOWN FOR CLARITY)



SECTION B-B

SCALE: 1/2" = 1'-0"

(DECK SHEAR STUDS AND STAY TOP FLANGE BRACING NOT SHOWN FOR CLARITY)



SECTION A-A

SCALE: 1/2" = 1'-0"

(DECK ANCHOR LOCATION 29B-9S SHOWN, ANCHOR LOCATION 29B-9N OPPOSITE HANDED ABOUT ℄ BRIDGE)

NOTES:

1. FOR STAY WORK POINTS SEE "STAY CABLE - GEOMETRY" SHEETS.
2. STAY DAMPER ASSEMBLY BY OTHERS, DETAILS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
3. ALL DECK ANCHOR PLATES SHALL BE ASTM A709 HPS 50W STEEL AND MEET THE CHARPY ZONE 2 TOUGHNESS REQUIREMENTS.
4. STAY ANCHOR PIPE SHALL BE IN ACCORDANCE WITH AMERICAN PETROLEUM INSTITUTE API-5L-PSL-2 GRADE X52 SEAMLESS.
5. STAY ANCHOR PLATES ZINC METALLIZED WITH SEAL AND TOP COATS. STAY ANCHOR PIPE AND FLANGE PLATES ZINC METALLIZED OR HOT-DIP GALVANIZED, TBD.
6. ALL BOLTS 1" DIAMETER F3125 GRADE A490. THREADS EXCLUDED FROM SHEAR PLANES.
7. BOLTS, NUTS, WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50.
8. ALL BOLTS SHALL BE TIGHTENED TO SLIP CRITICAL, WITH CLASS B FAYING SURFACES.
9. ALL ANCHORAGES SHALL BE SHOP FIT AND BOLTED, WITH UNIFORM CONTACT BETWEEN ANCHORAGE AND EDGE GIRDER WEB AND FLANGE SURFACES VERIFIED PRIOR TO BOLT TENSIONING.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

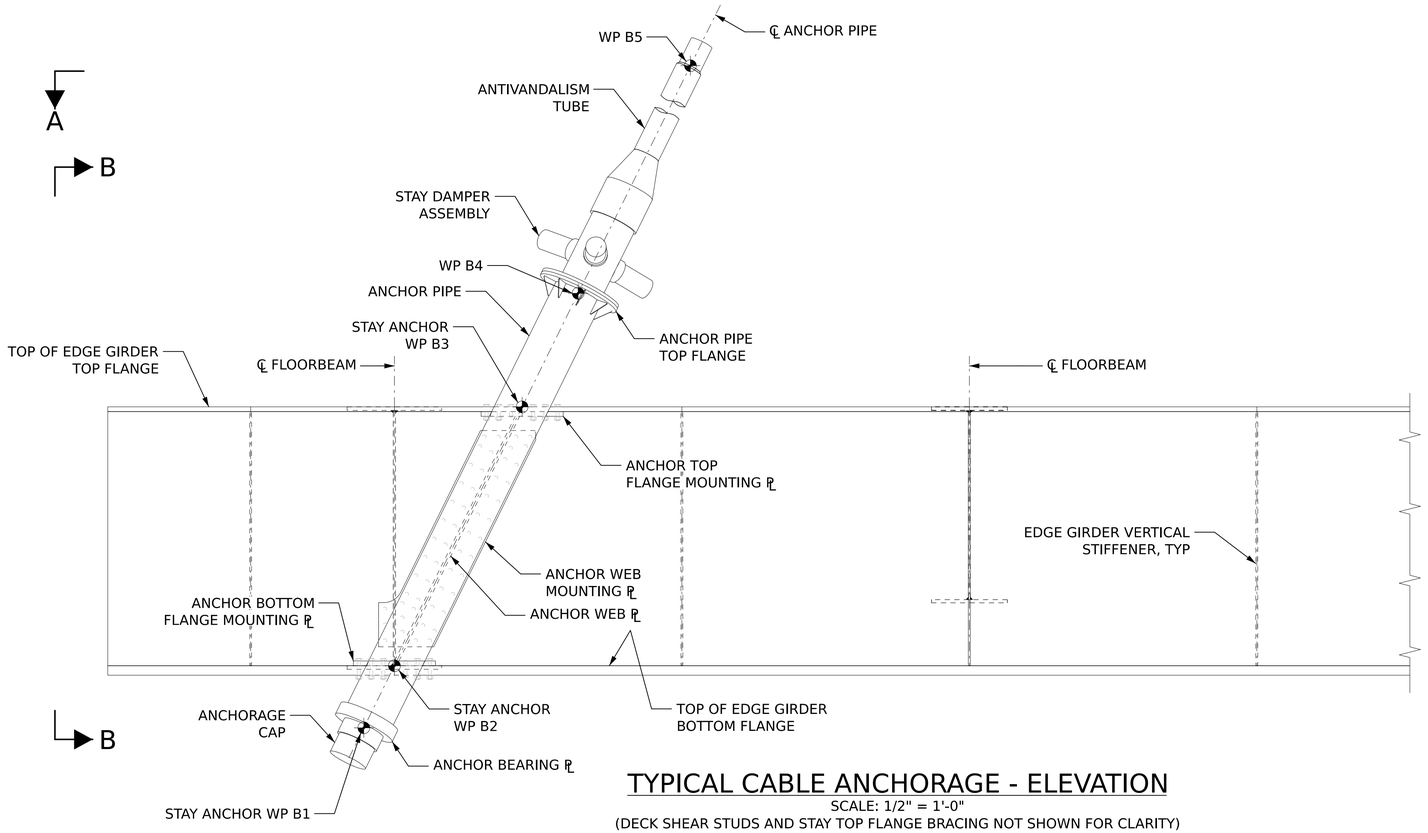
SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR
TYPICAL DECK ANCHOR DETAILS 1

MRB-S04-BR-40643.dgn
rweibel
12:00:43 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40644

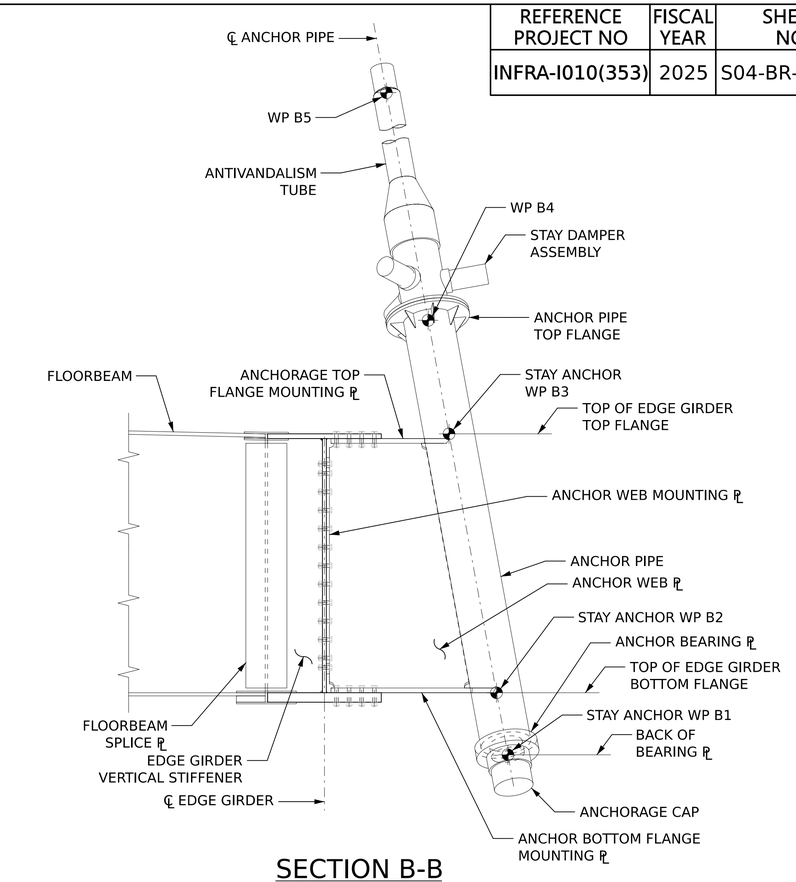
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2" 1" SHEET REFERENCE 0



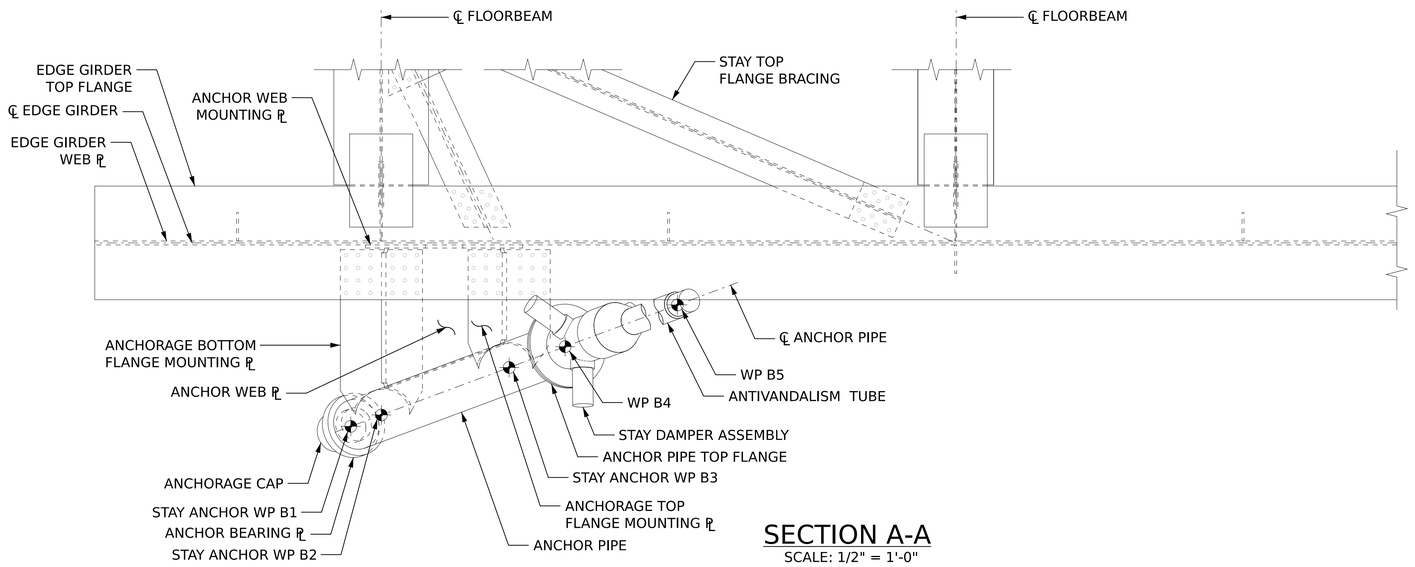
TYPICAL CABLE ANCHORAGE - ELEVATION

SCALE: 1/2" = 1'-0"
(DECK SHEAR STUDS AND STAY TOP FLANGE BRACING NOT SHOWN FOR CLARITY)



SECTION B-B

SCALE: 1/2" = 1'-0"
(DECK SHEAR STUDS AND STAY TOP FLANGE BRACING NOT SHOWN FOR CLARITY)



SECTION A-A

SCALE: 1/2" = 1'-0"
(DECK ANCHOR LOCATION 29B-2S SHOWN, ANCHOR LOCATION 29B-2N OPPOSITE HANDED ABOUT ℄ BRIDGE)

NOTES:

1. FOR NOTES, SEE "TYPICAL DECK ANCHOR DETAILS 1" SHEET.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

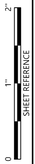
DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

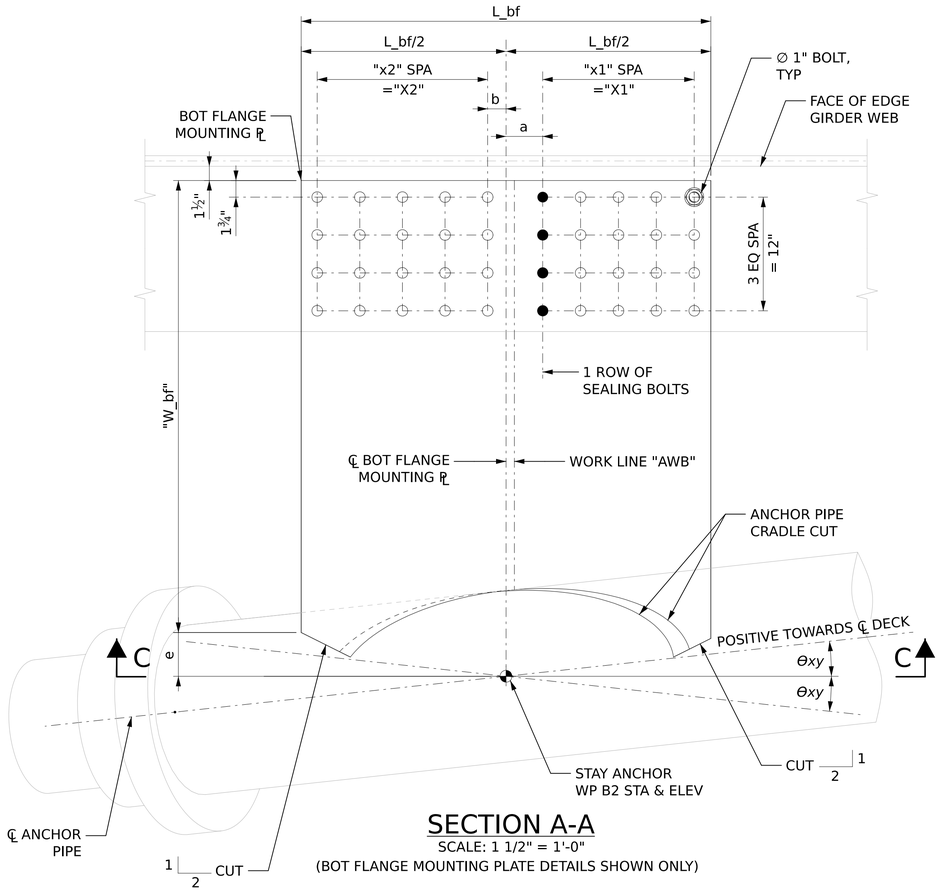
SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR
TYPICAL DECK ANCHOR DETAILS 2

MRB-S04-BR-40644.dgn
rweibel
12:00:51 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40647

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

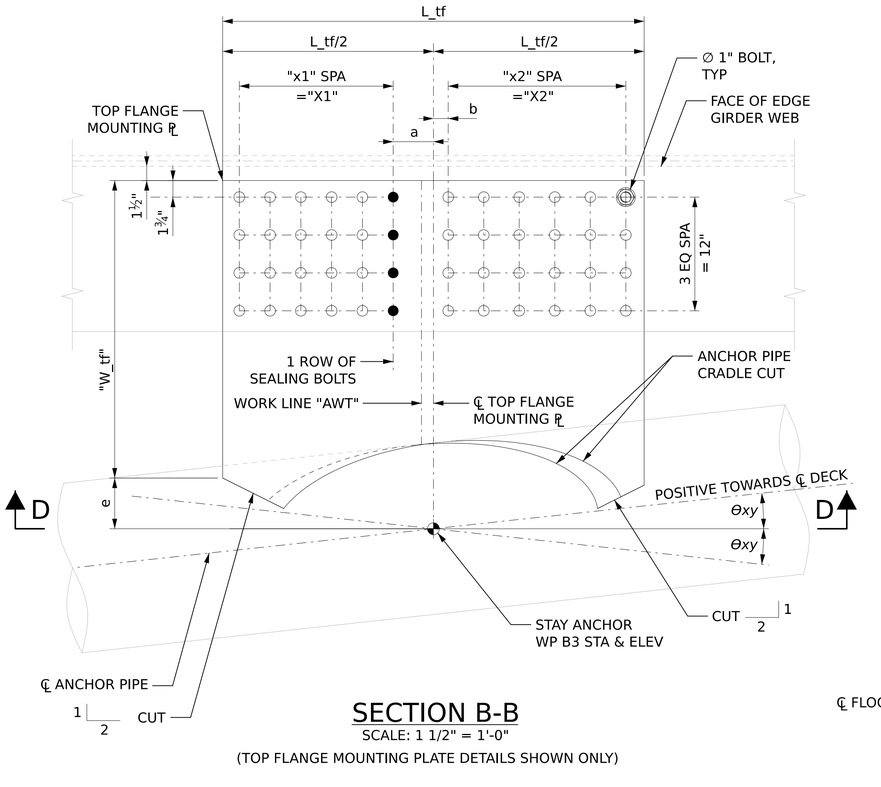




SECTION A-A

SCALE: 1 1/2" = 1'-0"

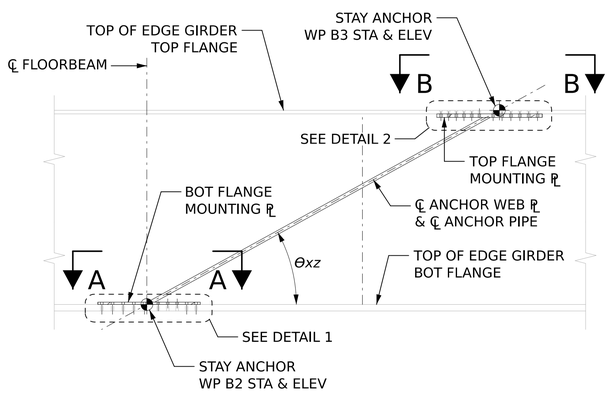
(BOT FLANGE MOUNTING PLATE DETAILS SHOWN ONLY)



SECTION B-B

SCALE: 1 1/2" = 1'-0"

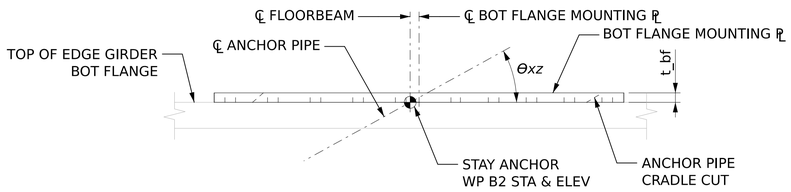
(TOP FLANGE MOUNTING PLATE DETAILS SHOWN ONLY)



ELEVATION - DOWNSTATION ANCHORS (PYLON P29 & P30)

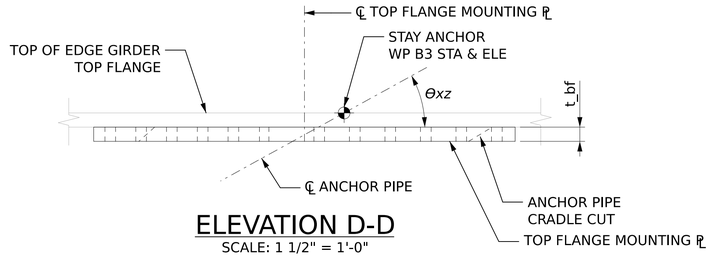
SCALE: 3/8" = 1'-0"

(DECK ANCHOR LOCATION 29B-9S SHOWN, OTHERS SIMILAR)



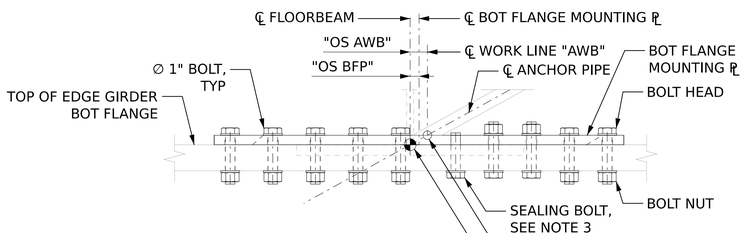
ELEVATION C-C

SCALE: 1 1/2" = 1'-0"



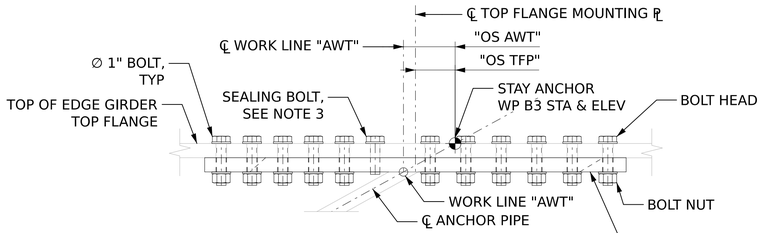
ELEVATION D-D

SCALE: 1 1/2" = 1'-0"



DETAIL 1

SCALE: 1 1/2" = 1'-0"



DETAIL 2

SCALE: 1 1/2" = 1'-0"

NOTES:

1. SOUTH EDGE GIRDER LINE SHOWN, NORTH SIMILAR.
2. FOR STAY WORK POINTS, SEE "STAY CABLE - GEOMETRY" SHEETS.
3. STANDARD HOLE IN EDGE GIRDER FLANGE, TAP AND THREAD FULL DEPTH OF FLANGE MOUNTING PL. BOLTS TO BE TORQUED TO XXX LB-FT W/ LOCTITE OR APPROVED EQUAL.
4. FOR LETTER VALUES, SEE "DECK ANCHOR PIPE AND PLATE SCHEDULE" SHEETS.
5. ANCHOR WEB MOUNTING PLATE AND ANCHOR PIPE NOT SHOWN FOR CLARITY.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

DECK ANCHOR-TOP & BOTT. FLANGE MOUNTING PLATE DETAILS 1

MRB-S04-BR-40647.dgn

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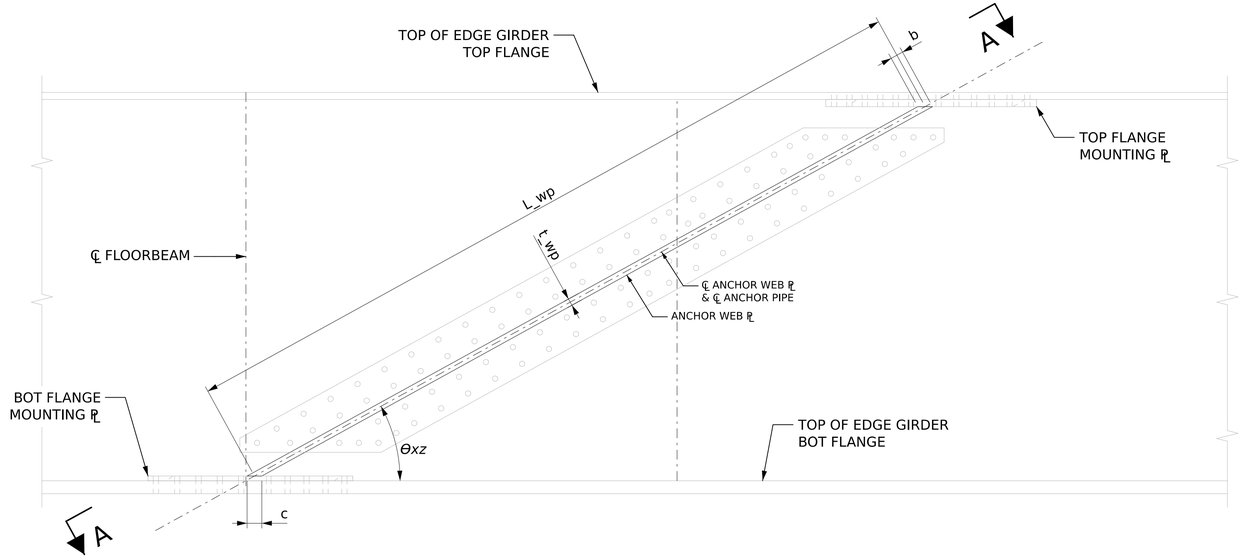
3/14/2025

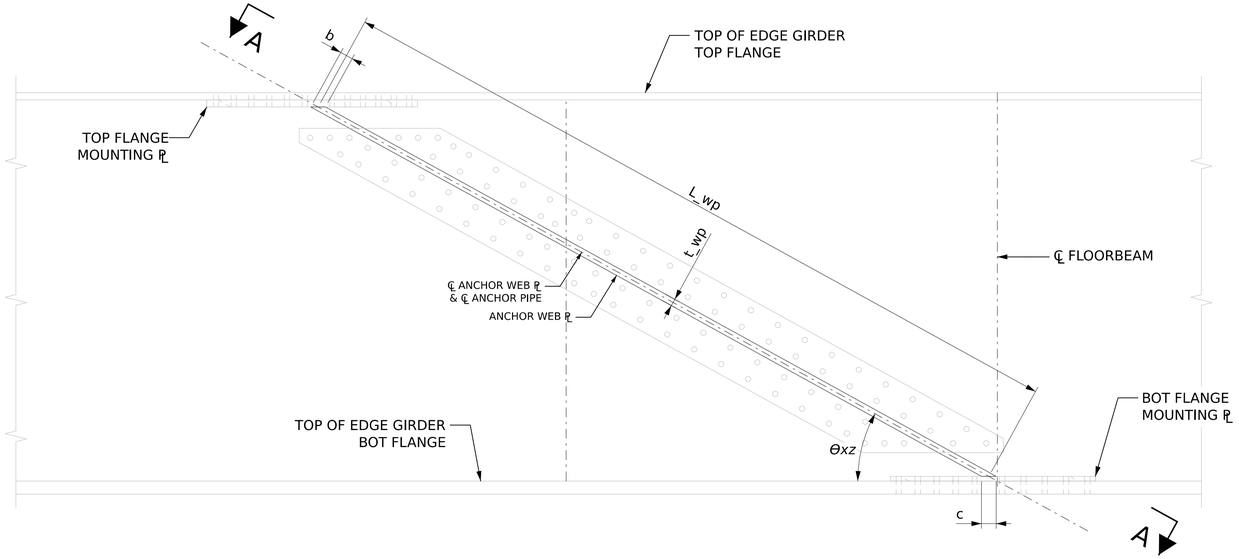
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40648



ELEVATION - WEB PLATE DOWNSTATION ANCHORS (PYLON P29 & P30)

SCALE: 3/4" = 1'-0"

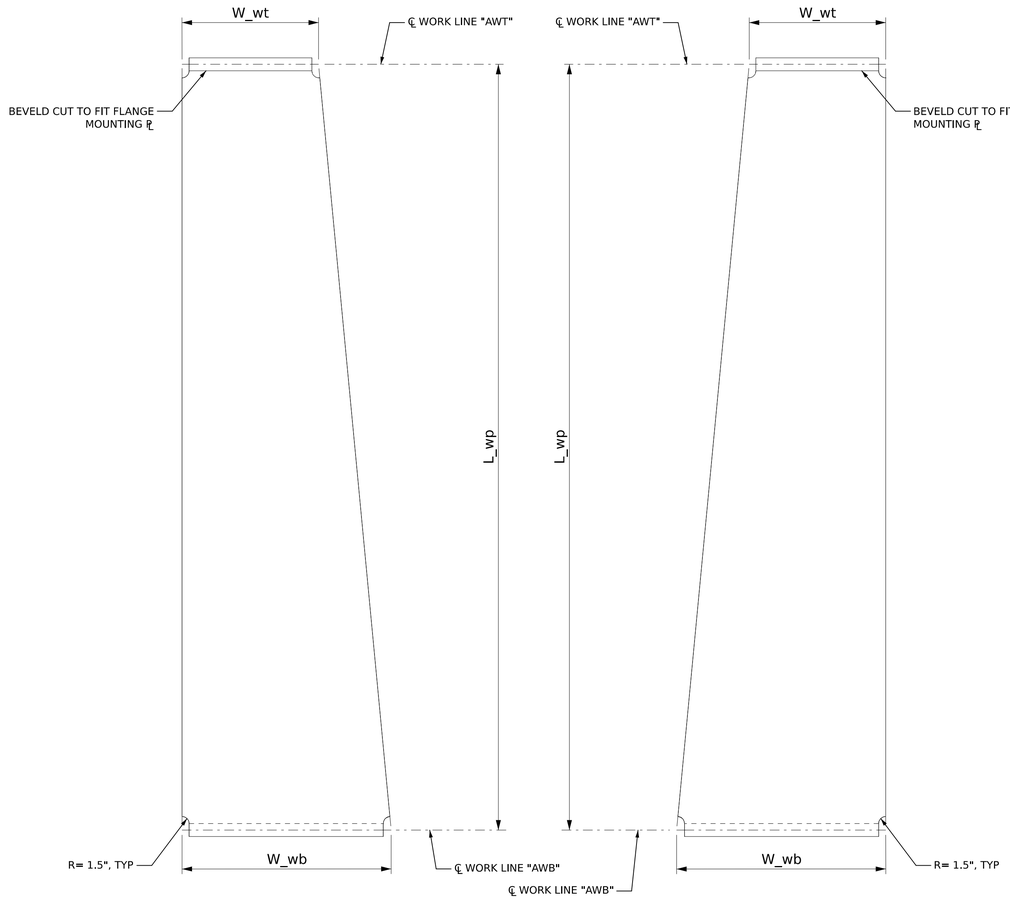
(DECK ANCHOR LOCATION 29B-9S SHOWN, OTHERS SIMILAR)



ELEVATION - WEB PLATE UPSTATION ANCHORS (PYLON P29 & P30)

SCALE: 3/4" = 1'-0"

(DECK ANCHOR LOCATION 29M-9S SHOWN, OTHERS SIMILAR)



SECTION A-A

SCALE: 3/4" = 1'-0"

(SOUTH EDGE GIRDER LINE)

SECTION A-A

SCALE: 3/4" = 1'-0"

(NORTH EDGE GIRDER LINE)

NOTES:

1. SOUTH EDGE GIRDER LINE SHOWN, NORTH SIMILAR.
2. FOR STAY WORK POINTS, SEE "STAY CABLE - GEOMETRY" SHEETS.
3. FOR LETTER VALUES, SEE "DECK ANCHOR - SCHEDULE" SHEETS.
4. ANCHOR PIPE NOT SHOWN FOR CLARITY.

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

DECK ANCHOR-WEB PLATE

DETAILS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40648.dgn

rweibel

12:01:06 PM

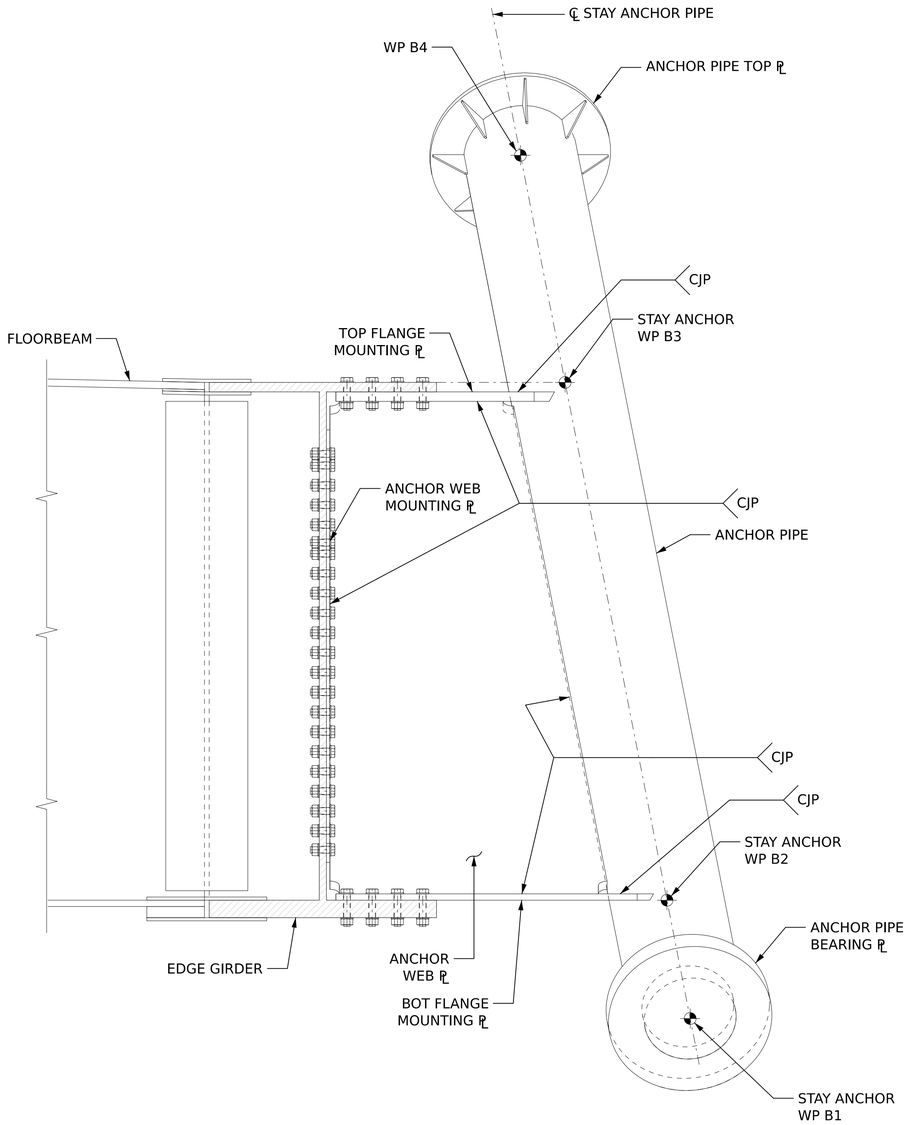
3/14/2025

0 1" SHEET REFERENCE 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40649

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

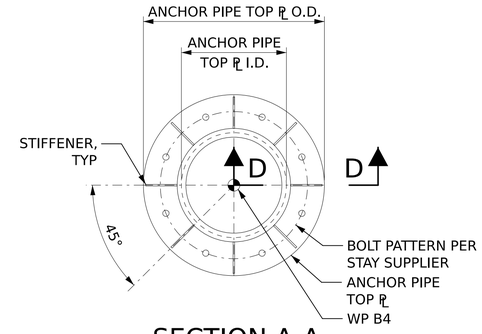
SHEET REFERENCE 0 1" 2"



TYPICAL ELEVATION AT CABLE STAY DECK ANCHOR

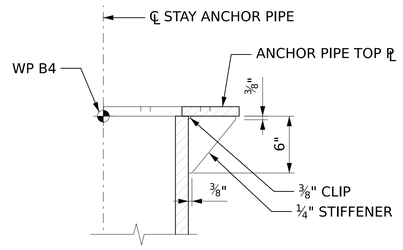
SCALE: 1" = 1'-0"

(DECK ANCHOR LOCATION 29B-9S SHOWN, ANCHOR LOCATION 29B-9N OPPOSITE HANDED.)



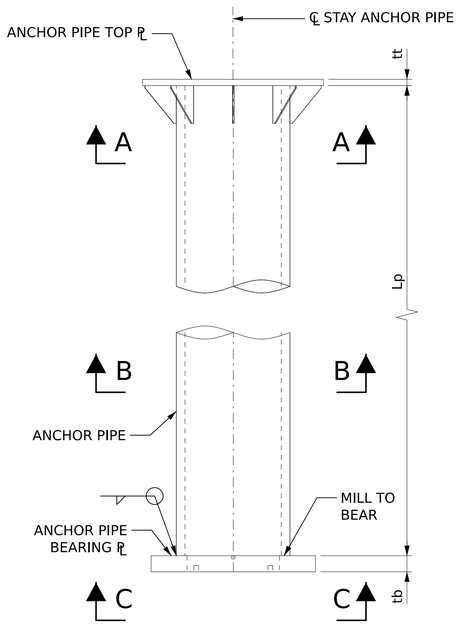
SECTION A-A

SCALE: 1" = 1'-0"



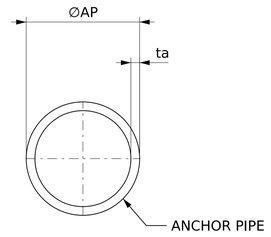
SECTION D-D

SCALE: 1 1/2" = 1'-0"



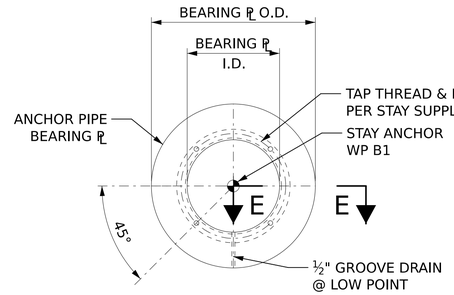
ANCHOR PIPE

SCALE: 1" = 1'-0"



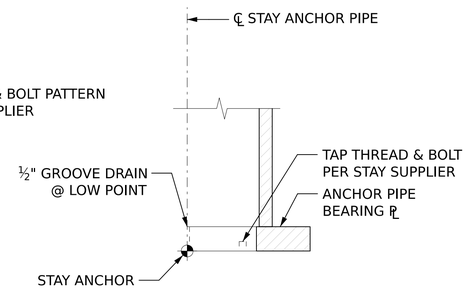
SECTION B-B

SCALE: 1" = 1'-0"



SECTION C-C

SCALE: 1" = 1'-0"



SECTION E-E

SCALE: 1 1/2" = 1'-0"

NOTES:

1. ANCHOR PIPE BEARING PLATE SHALL MEET ALIGNMENT AND FLATNESS REQUIREMENTS OF THE SPECIAL PROVISIONS (UNDER DEVELOPMENT).
2. FOR LETTER VALUES, SEE "DECK ANCHOR - SCHEDULE" SHEETS.
3. FOR STAY WORK POINTS, SEE "STAY CABLE - GEOMETRY" SHEETS.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

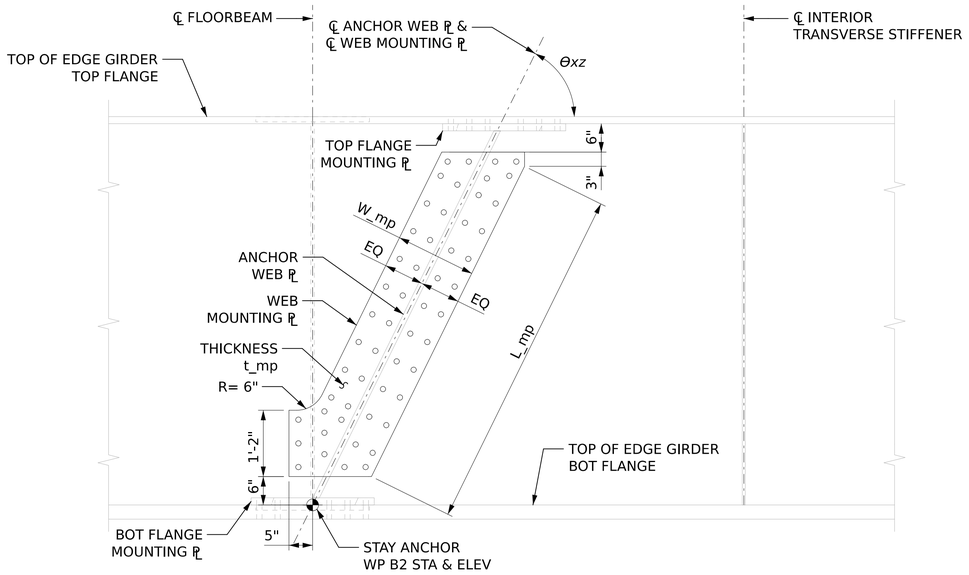
MAIN SPAN BRIDGE

DECK ANCHOR-ANCHOR PIPE

DETAILS

MRB-S04-BR-40649.dgn rweibel 12:01:15 PM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40651



ELEVATION - ANCHOR WEB MOUNTING PLATE DIMENSIONS 29B-2S & 2N

SCALE: 3/4" = 1'-0"
(LOOKING TOWARD ℄ BRIDGE)

NOTES:

1. SOUTH EDGE GIRDER LINE SHOWN, NORTH SIMILAR.
2. FOR STAY WORK POINTS, SEE "STAY CABLE - GEOMETRY" SHEETS.
3. SEE "DECK ANCHOR - TOP & BOTT. FLANGE - MOUNTING PLATE DETAILS" SHEET FOR FLANGE MOUNTING PLATE DETAILS.
4. SEE " DECK ANCHOR - ANCHOR PIPE - DETAILS" SHEET FOR ANCHOR PIPE AND ANCHOR WEB PLATE DETAILS.
5. SEE "DECK ANCHOR PIPE AND PLATE SCHEDULE" SHEETS FOR LETTER VALUE DIMENSIONS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR-WEB MOUNTING PLATE DETAILS 1

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40651.dgn
rweibel
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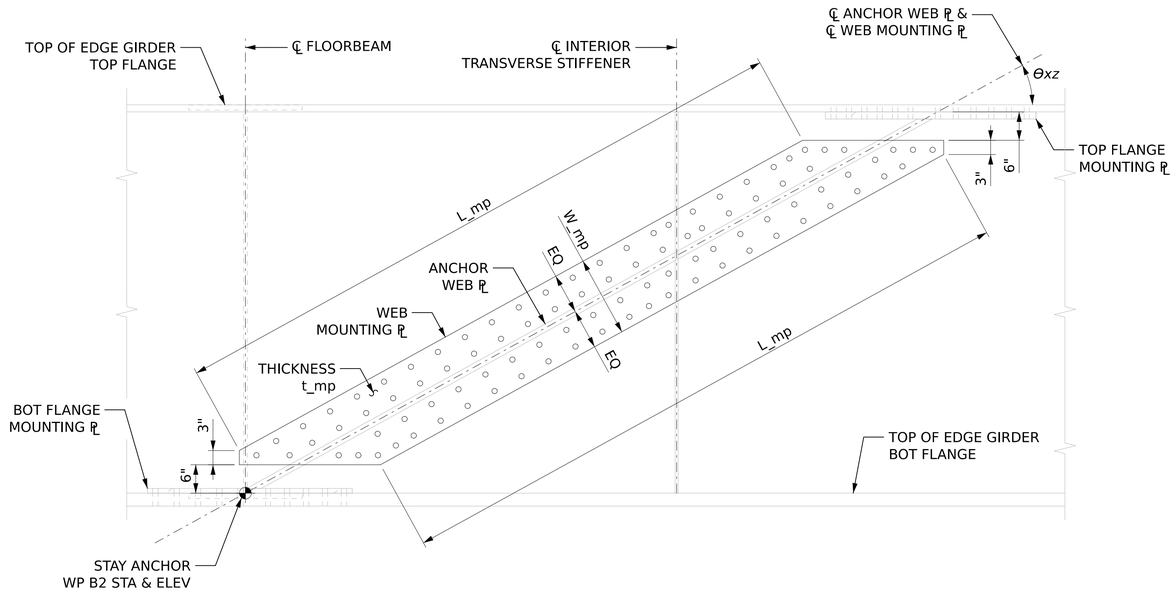
3/14/2025

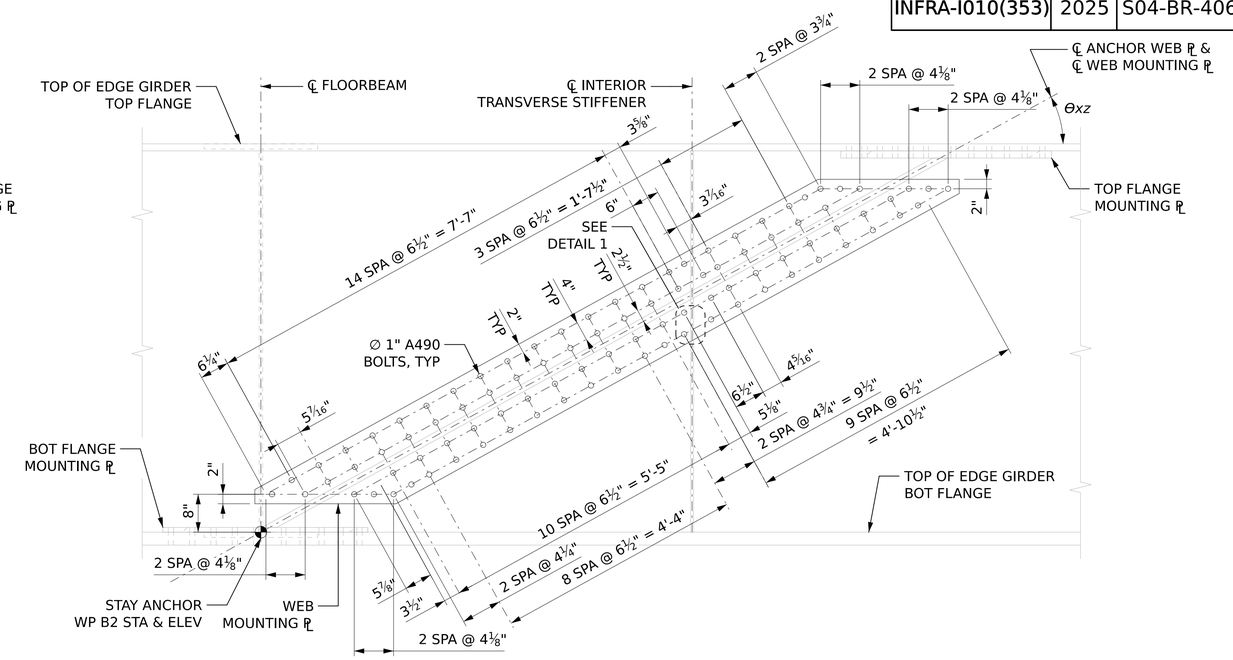
2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40652



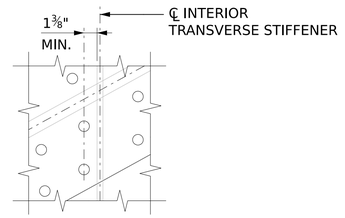
ELEVATION - ANCHOR WEB MOUNTING PLATE DIMENSIONS 29B-9S & 9N

SCALE: 3/4" = 1'-0"
(LOOKING TOWARD ℄ BRIDGE)



ELEVATION - ANCHOR WEB MOUNTING PLATE BOLTING DIAGRAM 29B-9S & 9N

SCALE: 3/4" = 1'-0"
(LOOKING TOWARD ℄ BRIDGE)



DETAIL 1

SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES SEE "DECK ANCHOR-WEB MOUNTING PLATE DETAILS 1" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR-WEB MOUNTING PLATE
DETAILS 2

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40652.dgn
rweibel
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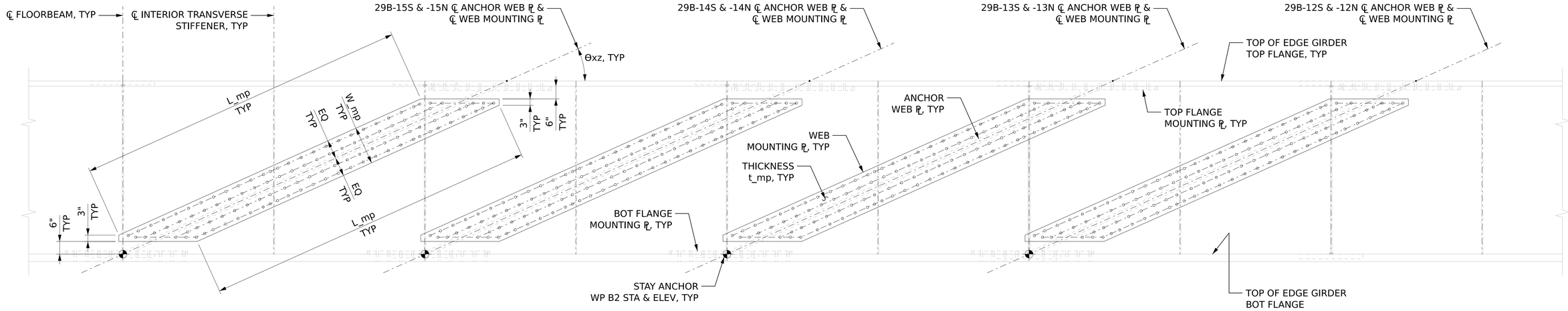
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40653



ELEVATION - ANCHOR WEB MOUNTING PLATE DIMENSIONS 29B-15S & 15N, 29B-14S & 14N, 29B-13S & 13N, 29B-12S &12N

SCALE: 1/2" = 1'-0"
(LOOKING TOWARD ℄ BRIDGE)

NOTES:

1. FOR NOTES SEE "DECK ANCHOR-WEB MOUNTING PLATE DETAILS 1" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK ANCHOR-WEB MOUNTING PLATE
DETAILS 3

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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3/14/2025

NORTH DECK ANCHOR PIPE & PLATE SCHEDULE *

* ANGLES IN DEGREES; PLATE LENGTHS AND THICKNESSES IN INCHES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40666

STAY	ANCHOR ANGLES		ANCHOR PIPE			PIPE BEARING PL.			PIPE TOP FLANGE PL.			ANCHOR WEB PL.				WEB MOUNTING PL.			BOTTOM FLANGE MOUNTING PL.									TOP FLANGE MOUNTING PL.								
	θxz	θyz	DIAM ΦAP	WALL ta	LENGTH Lp	O.D.	I.D.	tb	O.D.	I.D.	tt	L_wp	W_wb	W_wt	t_wp	L_mp	W_mp	t_mp	L_bf	W_bf	e	t_bf	a	b	x1	X1	x2	X2	L_tf	W_tf	e	t_tf	a	b	x1	X1	x2	X2
S29B-15N	24.268	10.734	24.000	1.812	329.166	28.000	18.875	4.000	30.630	21.376	1.000	184.915	39.987	24.388	2.000	156.934	18.000	1.000	58.000	41.833	10.021	1.500	5.000	2.000	4	22.250	4	25.250	58.000	25.875	10.021	2.000	5.000	2.000	4	22.250	4	25.250
S29B-14N	24.226	10.677	24.000	1.812	329.683	28.000	17.688	4.000	30.630	21.376	1.000	185.214	39.990	24.474	2.000	157.189	18.000	1.000	58.000	41.853	10.002	1.500	5.000	2.000	4	22.250	4	25.250	58.000	25.979	10.002	2.000	5.000	2.000	4	22.250	4	25.250
S29B-13N	24.158	10.629	24.000	1.812	330.533	28.000	17.688	4.000	30.630	21.376	1.000	186.312	39.994	24.495	2.000	157.602	18.000	1.000	58.000	41.884	9.972	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.055	9.972	1.750	5.000	2.000	4	22.250	4	25.250
S29B-12N	24.095	10.574	24.000	1.812	331.335	28.000	17.688	4.000	30.630	21.376	1.000	186.774	39.997	24.576	1.750	157.993	18.000	1.000	58.000	41.914	9.942	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.164	9.942	1.750	5.000	2.000	4	22.250	4	25.250
S29B-11N	25.221	10.536	20.000	1.750	317.531	24.000	15.938	4.000	30.630	17.500	1.000	178.946	42.036	26.732	1.750	151.371	18.000	1.000	46.000	43.745	8.113	1.500	5.000	2.000	3	16.250	3	19.250	46.000	28.115	8.113	1.750	5.000	2.000	3	16.250	3	19.250
S29B-10N	26.884	10.486	20.000	1.750	299.314	24.000	15.938	4.000	30.630	17.500	1.000	170.835	42.415	27.066	1.750	144.850	18.000	1.000	44.000	44.080	8.154	1.500	5.000	2.000	3	15.250	3	18.250	44.000	28.408	8.154	1.750	5.000	2.000	3	15.250	3	18.250
S29B-9N	28.848	10.436	20.000	1.750	280.615	24.000	14.750	4.000	29.134	17.500	1.000	160.626	42.420	27.181	1.500	135.755	17.000	1.000	40.000	44.526	7.710	1.500	5.000	2.000	3	13.250	3	16.250	40.000	28.992	7.710	1.500	5.000	2.000	3	13.250	3	16.250
S29B-8N	31.158	10.401	18.000	1.375	261.767	22.000	13.750	4.000	29.134	16.250	1.000	149.786	43.440	28.340	1.500	126.593	17.000	1.000	34.000	45.295	6.942	1.500	4.000	3.000	3	11.250	3	12.250	34.000	29.902	6.942	1.500	4.000	3.000	3	11.250	3	12.250
S29B-7N	33.932	10.380	18.000	1.375	242.722	22.000	13.750	4.000	29.134	16.250	1.000	138.836	43.443	28.464	1.500	117.339	17.000	1.000	32.000	45.287	6.951	1.500	4.000	3.000	3	10.250	3	11.250	32.000	30.018	6.951	1.500	4.000	3.000	3	10.250	3	11.250
S29B-6N	37.348	10.366	18.000	1.375	223.430	22.000	13.750	4.000	29.134	16.250	1.000	127.749	43.446	28.581	1.500	107.968	17.000	1.000	32.000	44.773	7.466	1.500	4.000	3.000	3	10.250	3	11.250	32.000	29.620	7.466	1.500	4.000	3.000	3	10.250	3	11.250
S29B-5N	41.696	10.342	18.000	1.375	203.866	22.000	13.750	4.000	29.134	16.250	1.000	116.509	43.449	28.720	1.500	98.469	17.000	1.000	32.000	44.253	7.988	1.500	4.000	3.000	3	10.250	3	11.250	32.000	29.238	7.988	1.500	4.000	3.000	3	10.250	3	11.250
S29B-4N	47.225	10.306	18.000	1.375	184.845	22.000	13.000	4.000	29.134	16.250	1.000	105.582	43.453	28.881	1.500	89.234	17.000	1.000	32.000	43.747	8.496	1.500	4.000	3.000	3	10.250	3	11.250	32.000	28.892	8.496	1.500	4.000	3.000	3	10.250	3	11.250
S29B-3N	54.384	10.262	16.000	1.031	167.013	20.000	11.438	4.000	26.630	14.938	1.000	95.334	44.474	30.076	1.250	80.572	17.000	1.000	30.000	43.880	8.364	1.500	3.500	3.500	3	9.750	3	9.750	30.000	29.203	8.364	1.500	3.500	3.500	3	9.750	3	9.750
S29B-2N	63.739	10.218	16.000	1.031	151.527	20.000	10.625	4.000	26.630	14.938	1.000	86.420	44.479	30.259	1.250	73.039	17.000	1.000	26.000	44.514	7.732	1.500	3.500	3.500	2	7.750	2	7.750	26.000	30.019	7.732	1.500	3.500	3.500	2	7.750	2	7.750
S29B-1N	75.992	10.175	16.000	1.031	140.206	20.000	10.250	4.000	26.630	14.938	1.000	79.360	44.359	30.422	1.250	66.992	17.000	1.000	24.000	44.620	7.502	1.500	3.500	3.500	2	6.750	2	6.750	24.000	30.413	7.502	1.500	3.500	3.500	2	6.750	2	6.750
S29M-1N	79.782	10.357	16.000	1.031	138.561	20.000	10.250	4.000	26.630	14.938	1.000	78.241	44.353	30.373	1.250	66.048	17.000	1.000	24.000	44.573	7.548	1.500	3.500	3.500	2	6.750	2	6.750	24.000	30.321	7.548	1.500	3.500	3.500	2	6.750	2	6.750
S29M-2N	66.921	10.571	16.000	1.031	148.428	20.000	10.625	4.000	26.630	14.938	1.000	84.242	44.344	30.078	1.250	71.198	17.000	1.000	26.000	44.298	7.822	1.500	3.500	3.500	2	7.750	2	7.750	26.000	29.757	7.822	1.500	3.500	3.500	2	7.750	2	7.750
S29M-3N	56.865	10.770	16.000	1.031	163.252	20.000	11.438	4.000	26.630	14.938	1.000	92.550	44.460	30.000	1.250	78.220	17.000	1.000	30.000	43.765	8.479	1.500	3.500	3.500	3	9.750	3	9.750	30.000	29.025	8.479	1.500	3.500	3.500	3	9.750	3	9.750
S29M-4N	49.131	10.947	18.000	1.375	180.958	22.000	13.000	4.000	29.134	16.250	1.000	102.485	43.433	28.789	1.250	86.616	17.000	1.000	30.000	44.102	8.139	1.500	4.000	3.000	3	9.250	3	10.250	30.000	29.174	8.139	1.500	4.000	3.000	3	9.250	3	10.250
S29M-5N	43.140	11.106	18.000	1.375	200.306	22.000	13.000	4.000	29.134	16.250	1.000	113.341	43.424	28.604	1.500	95.791	17.000	1.000	30.000	44.605	7.635	1.500	4.000	3.000	3	9.250	3	10.250	30.000	29.498	7.635	1.500	4.000	3.000	3	9.250	3	10.250
S29M-6N	38.413	11.247	18.000	1.375	220.606	22.000	13.000	4.000	29.134	16.250	1.000	124.733	43.417	28.428	1.500	105.420	17.000	1.000	28.000	45.632	6.606	1.500	4.000	3.000	2	8.250	2	9.250	28.000	30.353	6.606	1.500	4.000	3.000	2	8.250	2	9.250
S29M-7N	34.647	11.385	18.000	1.375	241.242	22.000	13.750	4.000	29.134	16.250	1.000	136.319	43.409	28.240	1.500	115.211	17.000	1.000	30.000	45.669	6.568	1.500	4.000	3.000	2	9.250	2	10.250	30.000	30.206	6.568	1.500	4.000	3.000	2	9.250	2	10.250
S29M-8N	31.591	11.519	18.000	1.375	261.928	22.000	13.750	4.000	29.134	16.250	1.000	147.942	43.401	28.043	1.500	125.035	17.000	1.000	34.000	45.207	7.028	1.500	4.000	3.000	3	11.250	3	12.250	34.000	29.551	7.028	1.500	4.000	3.000	3	11.250	3	12.250
S29M-9N	29.054	11.654	20.000	1.750	282.625	24.000	15.938	4.000	30.630	17.500	1.000	159.587	42.371	26.807	1.750	134.877	18.000	1.000	40.000	44.469	7.763	1.500	5.000	2.000	3	13.250	3	16.250	40.000	28.604	7.763	1.500	5.000	2.000	3	13.250	3	16.250
S29M-10N	26.933	11.778	20.000	1.750	303.048	24.000	15.938	4.000	30.630	17.500	1.000	171.101	42.363	26.591	1.750	144.608	18.000	1.000	44.000	44.061	8.169	1.500	5.000	2.000	3	15.250	3	18.250	44.000	27.985	8.169	1.500	5.000	2.000	3	15.250	3	18.250
S29M-11N	25.152	11.885	20.000	1.750	322.934	24.000	15.938	4.000	30.630	17.500	1.000	182.341	42.355	26.387	1.750	154.107	18.000	1.000	46.000	44.140	8.089	1.500	5.000	2.000	3	16.250	3	19.250	46.000	27.862	8.089	1.500	5.000	2.000	3	16.250	3	19.250
S29M-12N	23.641	11.972	24.000	1.812	342.198	28.000	17.688	4.000	30.630	21.376	1.000	193.262	40.304	24.150	1.750	163.338	18.000	1.000	58.000	42.497	9.730	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.030	9.730	1.500	5.000	2.000	4	22.250	4	25.250
S29M-13N	22.277	12.083	24.000	1.812	361.862	28.000	17.688	4.000	30.630	21.376	1.000	203.776	40.294	23.964	2.000	172.781	18.000	1.000	62.000	42.186	10.038	1.500	5.000	2.000	4	24.250	4	27.250	62.000	25.513	10.038	1.750	5.000	2.000	4	24.250	4	27.250
S29M-14N	21.064	12.194	24.000	1.812	381.496	28.000	18.875	4.000	30.630	21.376	1.000	214.235	40.347	23.826	2.000	182.239	18.000	1.000	66.000	41.940	10.345	1.500	5.000	2.000	4	26.250	5	29.250	66.000	25.043	10.345	2.000	5.000	2.000	4	26.250	5	29.250
S29M-15N	20.005	12.289	24.000	1.812	400.577	28.000	18.875	4.000	30.630	21.376	1.000	225.084	40.338	23.583	2.000	191.468	18.000	1.000	70.000	41.614	10.669	1.500	5.000	2.000	5	28.250	5	31.250	70.000	24.478	10.669	2.000	5.000	2.000	5	28.250	5	31.250
S30M-15N	20.016	12.369	24.000	1.812	400.740	28.000	18.875	4.000	30.630	21.376	1.000	224.961	40.334	23.576	2.000	191.363	18.000	1.000	70.000	41.606	10.676	1.500	5.000	2.000	5	28.250	5	31.250	70.000	24.467	10.676	2.000	5.000	2.000	5	28.250	5	31.250
S30M-14N	21.078	12.269	24.000	1.812	381.601	28.000	18.875	4.000	30.630	21.376	1.000	214.100	40.343	23.819	2.000	182.124	18.000	1.000	66.000	41.931	10.353	1.500	5.000	2.000	4	26.250	5	29.250	66.000	25.032	10.353	2.000	5.000	2.000	4	26.250	5	29.250
S30M-13N	22.294	12.152	24.000	1.812	361.917	28.000	17.688	4.000	30.630	21.376	1.000	203.632	40.291	23.959	2.000	172.659	18.000	1.000	62.000	42.177	10.047	1.500	5.000	2.000	4	24.250	4	27.250	62.000	25.502	10.047	1.750	5.000	2.000	4	24.250	4	27.250
S30M-12N	23.661	12.037	24.000	1.812	342.212	28.000	17.688	4.000	30.630	21.376	1.000	193.113	40.301	24.146	1.750	163.212	18.000	1.000	58.000	42.487	9.739	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.020	9.739	1.500	5.000	2.000	4	22.250	4	25.250
S30M-11N	25.175	11.945	20.000	1.750	322.914	24.000	15.938	4.000	30.630	17.500	1.000	182.191	42.353	26.383	1.750	153.981	18.000	1.000	46.000	44.132	8.097	1.500	5.000	2.000	3	16.250	3	19.250	46.000	27.853	8.097	1.500	5.000	2.000	3	16.250	3	19.250
S30M-10N	26.958	11.834	20.000	1.750	302.997	24.000	15.938	4.000	30.630	17.500	1.000	170.952	42.361	26.588	1.750	144.482	18.000	1.000	44.000	44.054	8.177	1.500	5.000	2.000	3	15.250	3	18.250	44.000	27.976	8.177	1.500	5.000	2.000	3	15.250	3	18.250
S30M-9N	29.082	11.704	20.000	1.750	282.560	24.000	15.938	4.000	30.630	17.500	1.000	159.447	42.369	26.803	1.750	134.759	18.000	1.000	40.000	44.462	7.770	1.500	5.000	2.000	3	13.250	3	16.250	40.000	28.594	7.770	1.500	5.000	2.000	3	13.250	3	16.250
S30M-8N	31.624	11.564	18.000	1.375	261.836	22.000	13.750	4.000	29.134	16.250	1.000	147.804	43.399	28.040	1.500	124.918	17.000	1.000	34.000	45.200	7.034	1.500	5.000	2.000	3	10.250	3	13.250	34.000	29.543	7.034	1.500	5.000	2.000	3	10.250	3	13.250
S30M-7N	34.686	11.425	18.000	1.375	241.128	22.000	13.750	4.000	29.134	16.250	1.000	136.184	43.407	28.237	1.500	115.097	17.000	1.000	30.000	45.662	6.574	1.500	5.000	2.000	2	8.250	2	11.250	30.000	30.198	6.574	1.500	5.000	2.000	2	8.250	2	11.250
S30M-6N	38.459	11.282	18.000	1.375	220.481	22.000	13.000	4.000	29.134	16.250	1.000	124.607	43.416	28.425	1.500	105.313	17.000	1.000	28.000	45.626	6.612	1.500	5.000	2.000	2	7.250	2	10.250	28.000	30.345	6.612	1.500	5.000	2.000	2	7.250	2	10.250
S30M-5N	43.196	11.135	18.000	1.375	200.169	22.000	13.000	4.000	29.134	16.250	1.000	113.221	43.424	28.601	1.500	95.690	17.000	1.000	30.000	44.599	7.641	1.500	5.000	2.000	3	8.250	3	11.250	30.000	29.490	7.641	1.500	5.000	2.000	3	8.250	3	11.250
S30M-4N	49.202	10.971	18.000	1.375	180.820	22.000	13.000	4.000	29.134	16.250	1.000	102.376	43.432	28.786	1.250	86.524	17.000	1.000	30.000	44.097	8.144	1.500	5.000	2.000	3	8.250	3	11.250	30.000	29.167	8.144	1.500	5.000	2.000	3	8.250	3	11.250
S30M-3N	56.953	10.788	16.000	1.031	163.125	20.000	11.438	4.000	26.630	14.938	1.000	92.458	44.459	29.997	1.250	78.142	17.000	1.000	30.000	43.761	8.482	1.500	5.000	2.000	3	8.250	3	11.250	30.000	29.018	8.482	1.500	5.000	2.000	3	8.250	3	11.250
S30M-2N	67.029	10.584	16.000	1.031	148.330	20.000	10.625	4.000	26.630	14.938	1.000	84.175	44.343	30.075	1.250	71.141	17.000	1.000	26.000	44.296	7.824	1.500	5.000	2.000	2	6.250	2	9.250	26.000	29.751	7.824	1.500	5.000	2.000	2	6.250	2	9.250
S30M-1N	79.909	10.363	16.000	1.031	138.513	20.000	10.250	4.000	26.630	14.938	1.000	78.210	44.353	30.370	1.250	66.021	17.000	1.000	24.000	44.572	7.550	1.500	5.000	2.000	2	5.250	2	8.250	24.000	30.317	7.550	1.500	5.000	2.000	2	5.250	2	8.250
S30B-1N	75.865	10.169	16.000	1.031	140.268	20.000	10.250	4.000	26.630	14.938	1.000	79.404	44.359	30.423	1.250	67.030	17.000	1.000	24.000	44.622	7.500	1.500	5.000	2.000	2	5.250	2	8.250	24.000	30.415	7.500	1.500	5.000	2.000	2	5.250	2	8.250
S30B-2N	63.629	10.207	16.000	1.031	151.642	20.000	10.625	4.000	26.630	14.938	1.000	86.502	44.479	30.260	1.250	73.108	17.000	1.000	26.000	44.517	7.728	1.500	5.000	2.000	2	6.250	2	9.250	26.000	30.022	7.728	1.500	5.000	2.000	2	6.250	2	9.250
S30B-3N	54.292	10.245	16.000	1.031	167.160	20.000	11.438	4.000	26.630	14.938	1.000	95.443	44.475	30.076	1.250	80.664	17.000	1.000	30.000	43.885	8.359	1.500	5.000	2.000	3	8.250	3	11.250	30.000	29.207	8.359	1.500	5.000	2.000	3	8.250	3	11.250
S30B-4N	47.150	10.285	18.000	1.375	185.010	22.000	13.000	4.000	29.134	16.250	1.000	105.710	43.454	28.881	1.500	89.342	17.000	1.000	32.000	43.752	8.490	1.500	5.000	2.000	3	9.250	3	12.250	32.000	28.897	8.490	1.500	5.000	2.000	3	9.250	3	12.250
S30B-5N	41.634	10.316	18.000	1.375	204.037	22.000	13.750	4.000	29.134	16.250	1.000	116.651	43.450	28.721	1.500	98.589	17.000	1.000	32.000	44.259	7.981	1.500	5.000	2.000	3	9.250	3	12.250	32.000	29.245	7.981	1.500	5.000	2.000	3	9.250	3	12.250
S30B-6N	37.297	10.337	18.000	1.375	223.599	22.000	13.750	4.000	29.134	16.250	1.000	127.900	43.447	28.582	1.500	108.097	17.000	1.000	32.000	44.780	7.459	1.500	5.000	2.000	3	9.250	3	12.250	32.000	29.627	7.459	1.500	5.000	2.000	3	9.250	3	12.250
S30B-7N	33.887	10.347	18.000	1.375	242.888	22.000	13.750	4.000	29.134	16.250	1.000	138.998	43.444	28.465	1.500	117.476	17.000	1.000	32.000	45.295	6.943	1.500	5.000	2.000	3	9.250	3	12.250	32.000	30.025	6.943	1.500	5.000	2.000	3	9.250	3	12.250
S30B-8N	31.120	10.364	18.000	1.375	261.922	22.000	13.750	4.000	29.134	16.250	1.000	149.953	43.442	28.341	1.500	126.735	17.000	1.000	34.000	45.303	6.934	1.500	5.000	2.000	3	10.250	3	13.250	34.000	29.910	6.934	1.500	5.000	2.000	3	10.250	3	13.250
S30B-9N	28.814	10.396	20.000	1.750	280.755	24.000	14.750	4.000	29.134	17.500	1.000	160.798	42.421	27.182	1.500	135.900	17.000	1.000	40.000	44.535	7.701	1.500	5.000	2.000	3	13.250	3	16.250	40.000	29.001	7.701	1.500	5.000	2.000	3	13.250	3	16.250
S30B-10N	26.853	10.443	20.000	1.750	299.450	24.000	15.938	4.000	30.630	17.500	1.000	171.017	42.417	27.067	1.750	145.005	18.000	1.000	44.000	44.089	8.145	1.500	5.000	2.000	3	15.250	3	18.250	44.000	28.417	8.145	1.750	5.000	2.000	3	15.250	3	18.250
S30B-11N	25.193	10.489	20.000	1.750	317.654	24.000	15.938	4.000	30.630	17.500	1.000	179.132	42.037	26.732	1.750	151.528	18.000	1.000	46.000	43.755	8.103	1.500	5.000	2.000	3	16.250	3	19.250	46.000	28.123	8.103	1.750	5.000	2.000	3	16.250	3	19.250
S30B-12N	24.069	10.525	24.000	1.812	331.446	28.000	17.688	4.000	30.630	21.376	1.000	186.964	39.999	24.577	1.750	158.153	18.000	1.000	58.000	41.926	9.930	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.175	9.930	1.750	5.000	2.000	4	22.250	4	25.250
S30B-13N	24.132	10.579	24.000	1.812	330.645	28.000	17.688	4.000	30.630	21.376	1.000	186.502	39.996	24.496	2.000	157.762	18.000	1.000	58.000	41.896	9.960	1.500	5.000	2.000	4	22.250	4	25.250	58.000	26.066	9.960	1.750	5.000	2.000	4	22.250	4	25.250
S30B-14N	24.200	10.628	24.000	1.812	329.797	28.000	17.688	4.000	30.630	21.376	1.000	185.404	39.992	24.474	2.000	157.349	18.000	1.000	58.000	41.865	9.990	1.500	5.000	2.000	4	22.250	4	25.250	58.000	25.989	9.990	2.000	5.000	2.000	4	22.250	4	25.250
S30B-15N	24.241	10.685	24.000	1.812	329.282	28.000	18.875	4.000	30.630	21.376	1.000	185.104	39.988	24.388	2.000	157.095	18.000	1.000	58.000	41.845	10.009	1.500	5.000	2.000	4	22.250	4	25.250	58.000	25.886	10.009	2.000	5.000	2.000	4	22.250	4	25.250

NOTES:

1. SEE "DECK ANCHOR - TYPICAL DECK ANCHOR" SHEET NOTES.
2. NORTH STAYS SHOWN, SOUTH SIMILAR.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

DECK ANCHOR

PIPE & PLATE - SCHEDULE 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40666.dgn

rweibel

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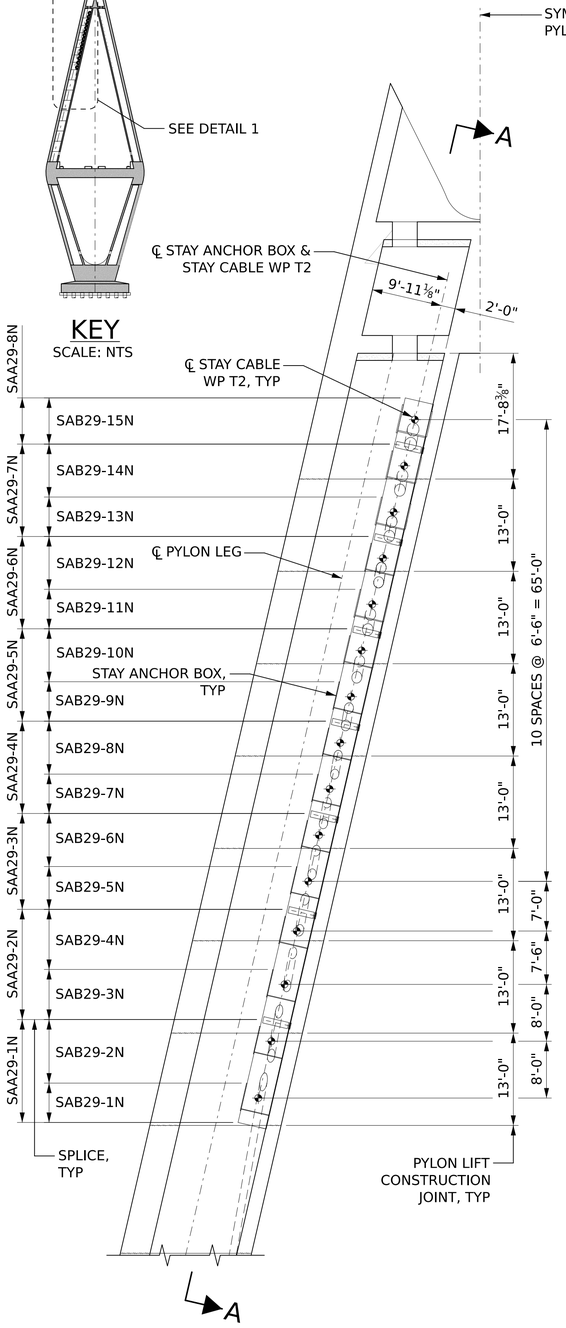
3/14/2025

2" 1" SHEET REFERENCE 0

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40671

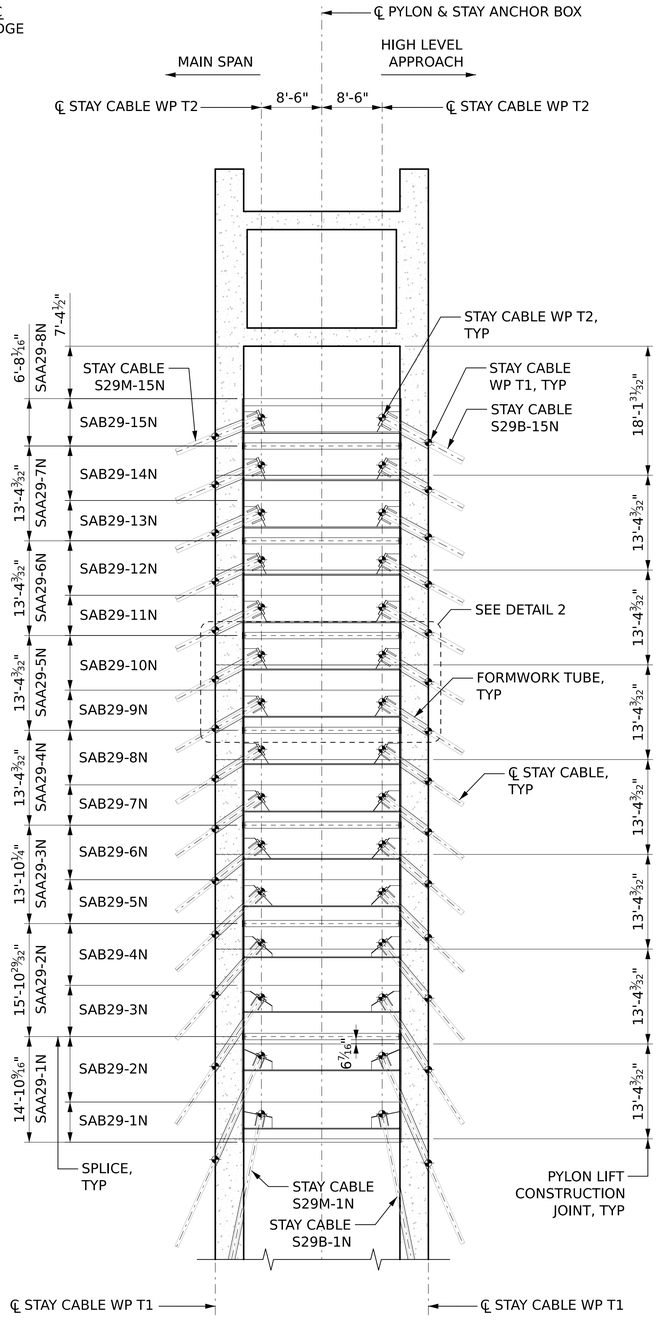
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



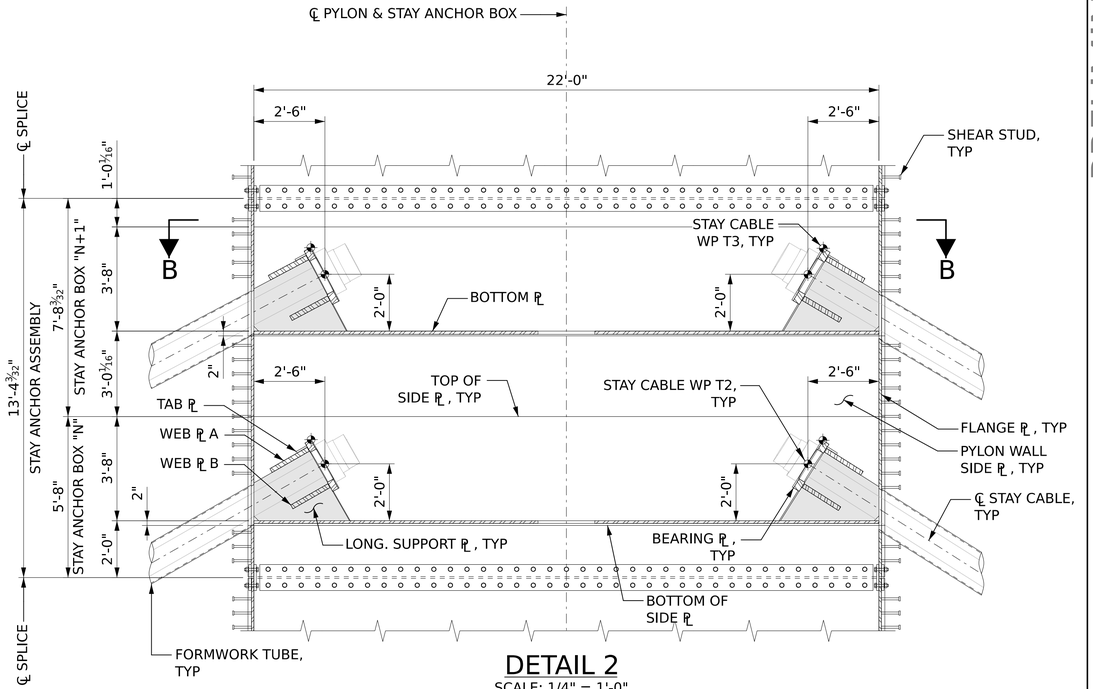
DETAIL 1 - TRANSVERSE HALF SECTION UPPER PYLON

SCALE: 3/32" = 1'-0"
LOOKING AHEAD STATION. NORTH PYLON SHOWN, SOUTH PYLON SIMILAR.



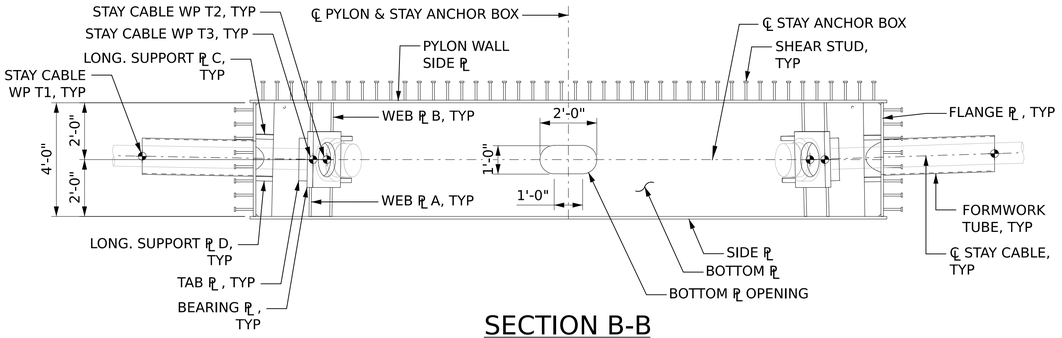
SECTION A-A

SCALE: 3/32" = 1'-0"



DETAIL 2

SCALE: 1/4" = 1'-0"
(PYLON CONCRETE NOT SHOWN FOR CLARITY)



SECTION B-B

SCALE: 1/4" = 1'-0"
(PYLON CONCRETE NOT SHOWN FOR CLARITY)

LEGEND:

SAB 29 - 1N

- SAA: STAY ANCHOR ASSEMBLY
- SAB: STAY ANCHOR BOX
- 29: PYLON 29
- 30: PYLON 30
- ANCHOR ASSEMBLY / ANCHOR BOX NUMBER
- N: NORTH
- S: SOUTH

NOTES:

1. STAY ANCHOR BOXES ARE SHOWN SCHEMATICALLY ON THIS DRAWING.
2. ACCESS PLATFORMS AND LADDERS ARE NOT SHOWN FOR CLARITY.
3. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 - STAY ANCHOR BOX - ISOMETRIC VIEW" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 - STAY ANCHOR BOX LAYOUT

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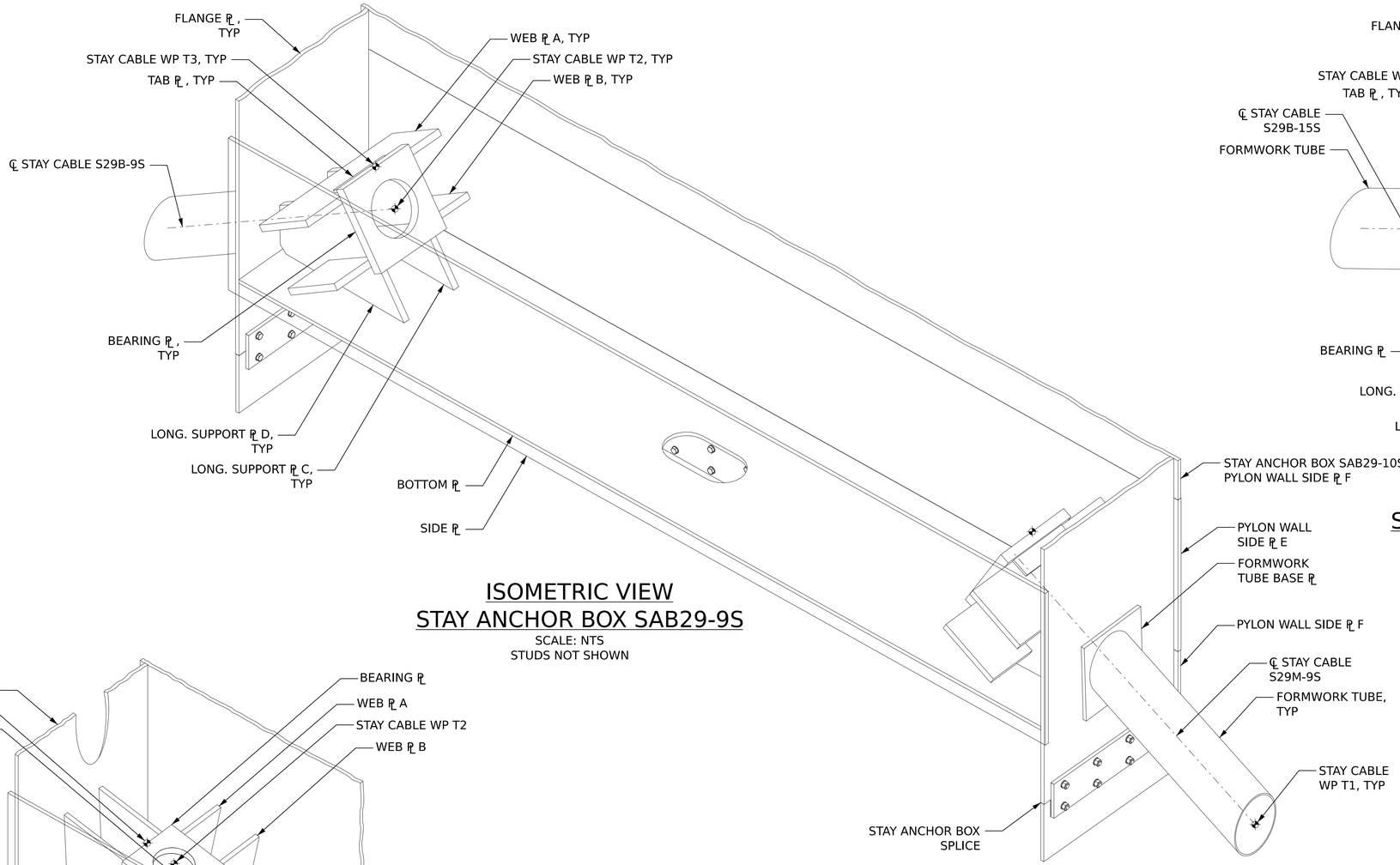
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40673

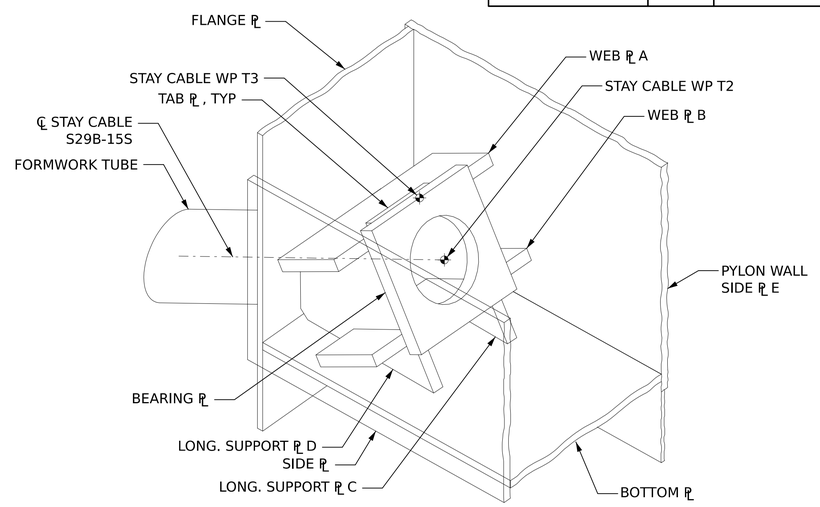
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2"
1"
SHEET REFERENCE
0



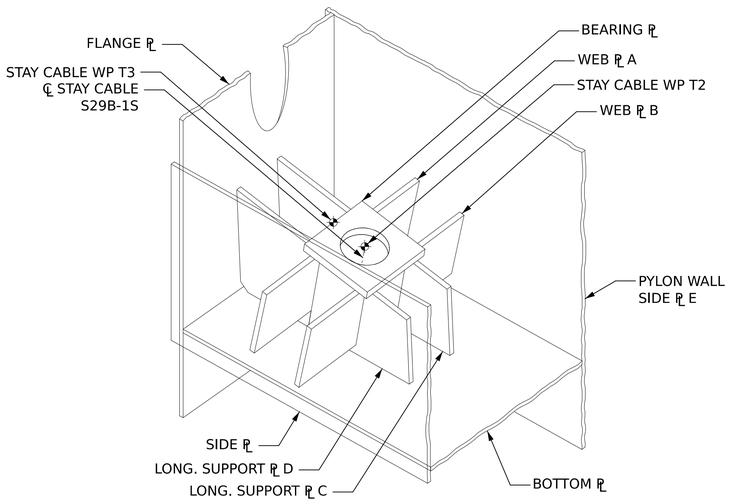
ISOMETRIC VIEW
STAY ANCHOR BOX SAB29-9S

SCALE: NTS
STUDS NOT SHOWN



ISOMETRIC VIEW
STAY ANCHOR BOX SAB29-15S

SCALE: NTS
STUDS NOT SHOWN



ISOMETRIC VIEW
STAY ANCHOR BOX SAB29-1S

SCALE: NTS
STUDS NOT SHOWN

NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50W.
2. ALL EXPOSED STEEL SURFACES SHALL BE PAINTED WITH A TWO-COAT SYSTEM (ZINC PRIMER AND EPOXY TOP COAT). STEEL SURFACES IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH A ZINC PRIMER COAT. PAINTED SURFACES SHALL BE TOUCHED UP AT END OF CONSTRUCTION AS NEEDED.
3. STEEL PLATES AND WELD METAL IN TENSION SHALL MEET CHARPY V-NOTCH IMPACT REQUIREMENTS FOR NON-FRACTURE CRITICAL PRIMARY TENSION MEMBERS IN TEMPERATURE ZONE 2 IN ACCORDANCE WITH AASHTO LRFD.
4. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325 TYPE 1 HOT-DIPPED GALVANIZED HIGH STRENGTH BOLTS. THE DIAMETER OF THE BOLT HOLES SHALL BE 1/16" GREATER THAN THE NOMINAL BOLT DIAMETER, UNLESS NOTED OTHERWISE.
5. ALL SHEAR STUD CONNECTORS SHALL CONFORM TO AASHTO M169 GRADES 1015, 1018, OR 1020, EITHER SEMI OR FULLY KILLED, AND SHALL HAVE A SPECIFIED MINIMUM YIELD STRENGTH OF 50 ksi AND TENSILE STRENGTH OF 60 ksi.
6. FOR STAY CABLE WORK POINT COORDINATES, SEE "STAY CABLE - GEOMETRY" SHEETS.
7. FOR STAY ANCHOR BOX DETAILS, SEE "STAY ANCHOR BOX TYPES A & B DETAIL" SHEETS.
8. FOR ANCHOR BOX SHEAR STUD CONNECTOR DETAILS, SEE "STAY ANCHOR BOX - DETAIL 1 THROUGH 5" SHEETS.
9. FOR STAY ANCHOR BOX SPLICE AND FORMWORK TUBE DETAILS, SEE "STAY ANCHOR BOX - DETAIL 6" SHEET.
10. TEMPORARY ANCHOR BOX STIFFENERS AND BRACING REQUIRED TO CONTROL DEFORMATIONS AND STRESSES DUE TO HYDROSTATIC CONCRETE PRESSURE AND HANDLING SHALL BE PROVIDED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP
DATE

PE STAMP
DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - ISOMETRIC VIEW

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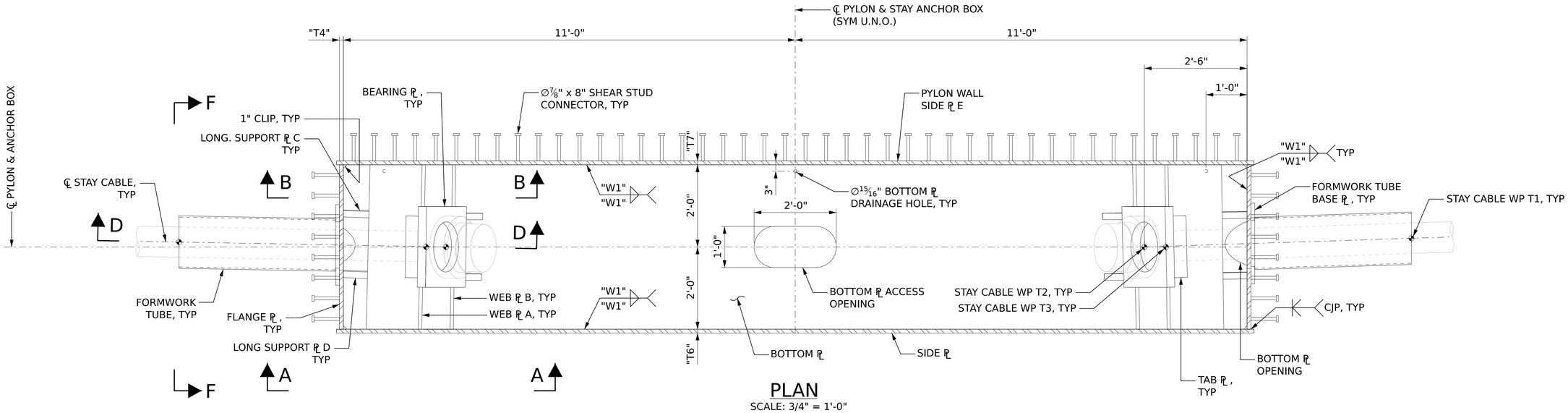
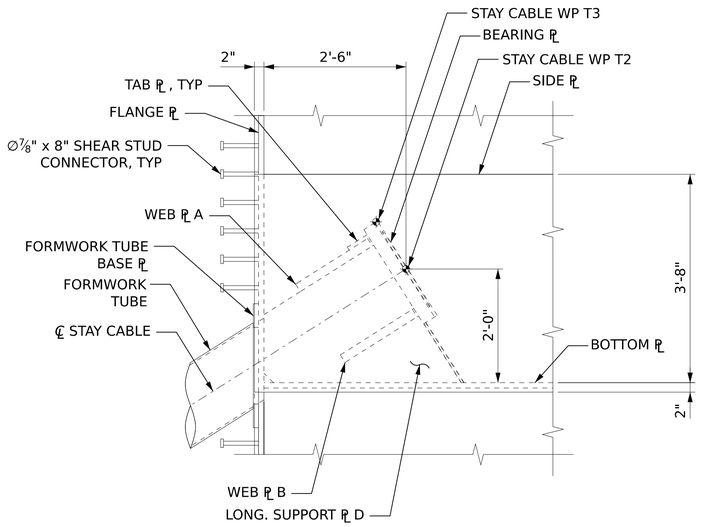
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40677

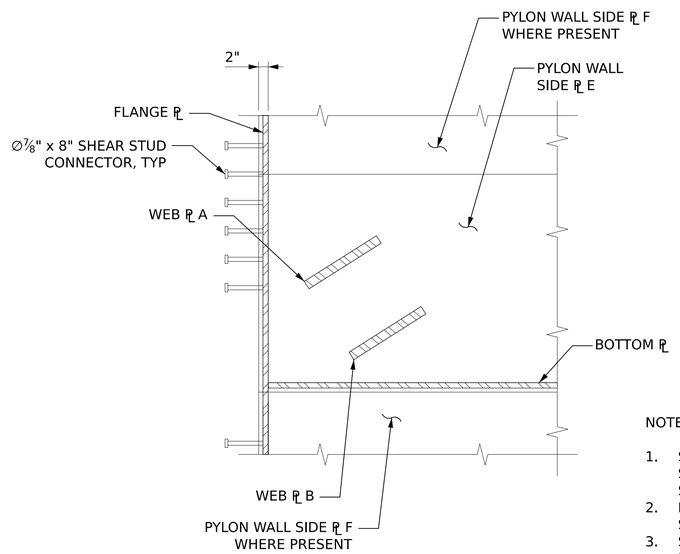
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



PLAN
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"

NOTES:

1. STAY CABLE ANCHOR BOX TYPE B INCLUDES THE FOLLOWING BOXES: SAB29-5N THROUGH SAB29-15N AND SAB29-5S THROUGH SAB29-15S, SAB30-5N THROUGH SAB30-15N AND SAB30-5S THROUGH SAB30-15S.
2. FOR VARIABLE PLATE DIMENSIONS AND WELD SIZES, SEE "STAY ANCHOR BOX - SCHEDULE" SHEETS.
3. SHEAR STUD CONNECTORS ARE SHOWN SCHEMATICALLY ON THIS DRAWING. FOR SHEAR STUD CONNECTOR DETAILS, SEE "STAY ANCHOR BOX - DETAILS" SHEETS.
4. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 - STAY ANCHOR BOX - ISOMETRIC VIEW" SHEET.

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A	SIBT	04/04/2025	60% SUBMITTAL

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX TYPE B - DETAILS 1

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rweibel
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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40678

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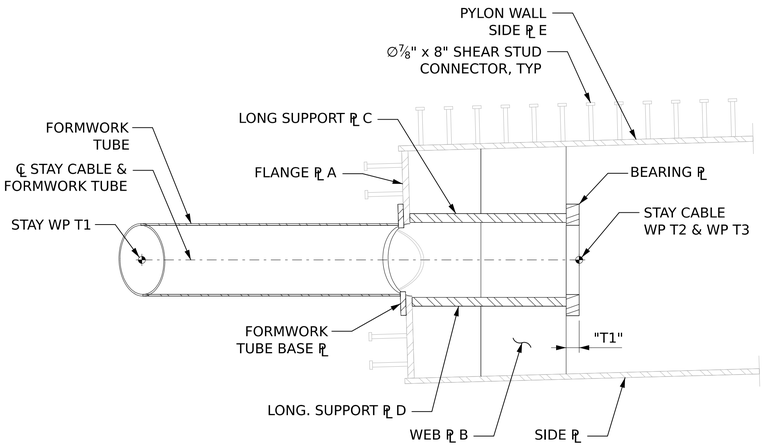
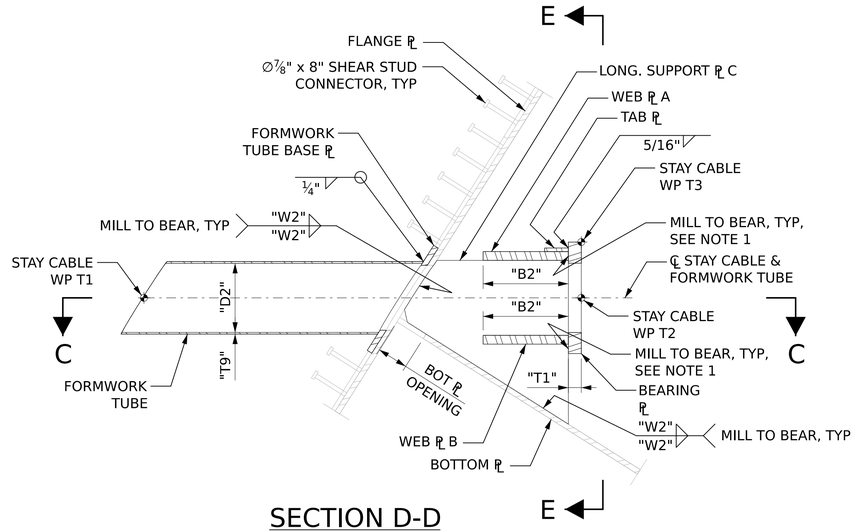
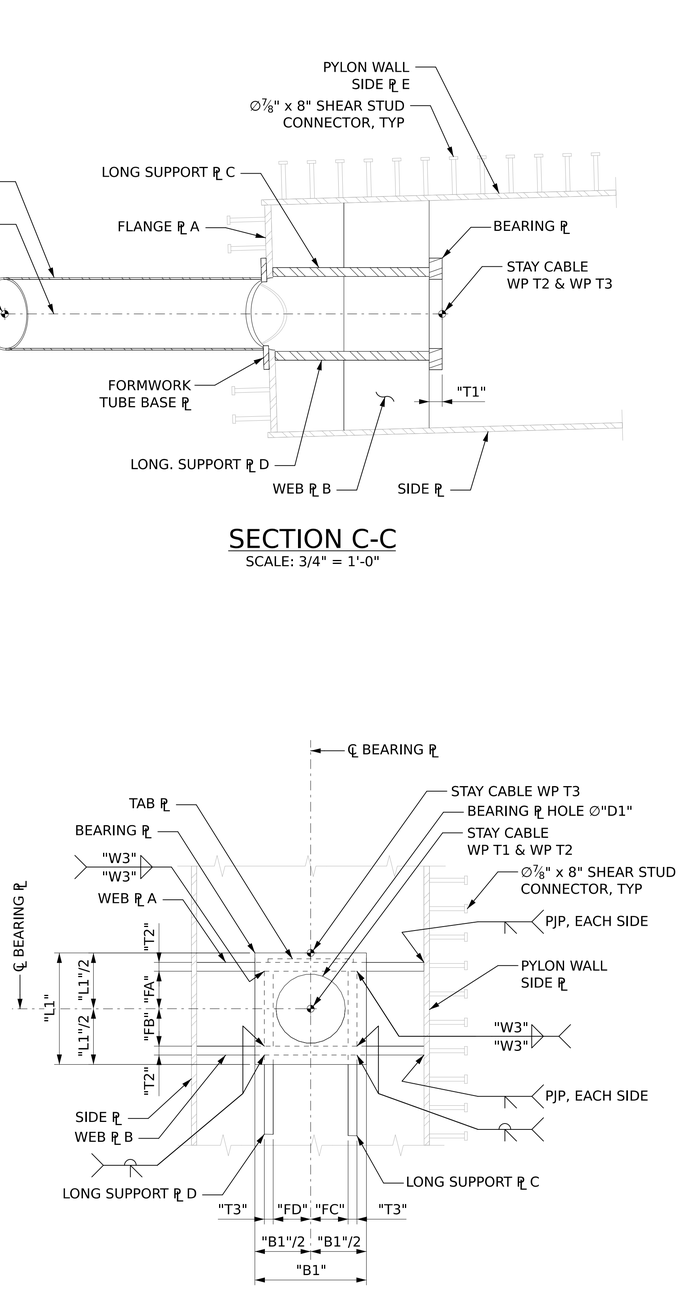


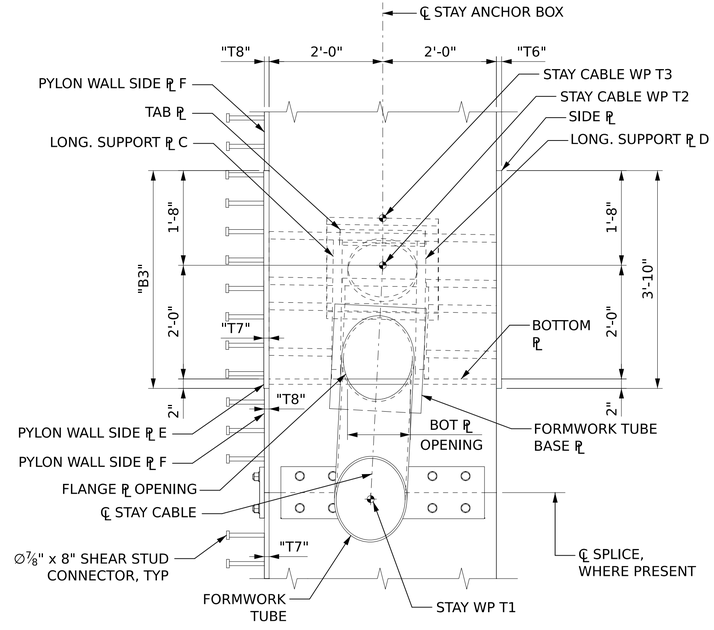
SECTION C-C
SCALE: 3/4" = 1'-0"



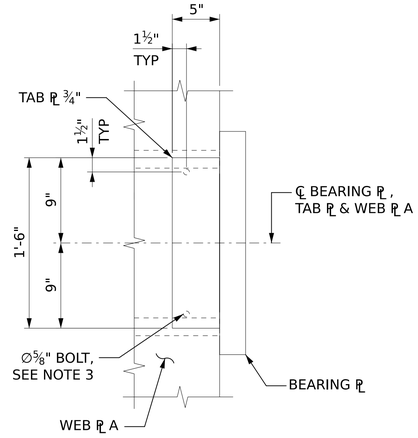
SECTION D-D
SCALE: 3/4" = 1'-0"
(SECTION THROUGH PLANE PASSING THROUGH STAY CABLE WP3, WP4, WP5)



SECTION E-E
SCALE: 3/4" = 1'-0"



SECTION F-F
SCALE: 3/4" = 1'-0"



DETAIL PLAN - TAB PLATE
SCALE: 1 1/2" = 1'-0"

NOTES:

1. CONTACT SURFACES BETWEEN THE BEARING PLATE, WEB PLATES, AND LONGITUDINAL SUPPORT PLATES SHALL BE MILLED TO BEAR SO THAT THE FOUR CONTACT SURFACES ARE COPLANAR IN THE FINAL ASSEMBLY.
2. THE INTERIOR FACE OF THE BEARING PLATE SHALL BE PERPENDICULAR TO THE CENTERLINE OF STAY CABLE, WHICH IS DEFINED BY WORK POINTS WP T1 & T2. THE ROTATION OF THE BEARING PLATE ABOUT THIS CENTERLINE IS SET BY WORK POINT WP T3, WHICH IS LOCATED AT THE CENTER OF THE TOP EDGE OF THE BEARING PLATE, AS SHOWN.
3. FOR TAB PLATE DETAILS, SEE DETAIL. PROVIDE OVERSIZED HOLES IN THE TAB PLATE AND 1" DEEP TAPPED HOLES IN WEB PLATE A FOR 5/8" BOLTS. BOLTS TO BE INSTALLED SNUG TIGHT.
4. FOR ADDITIONAL NOTES, SEE NOTES ON "PYLON P29 & P30 - STAY ANCHOR BOX TYPE B - DETAILS 1" SHEET.
5. FOR FORMWORK TUBE DETAILS, SEE "STAY ANCHOR BOX - DETAILS 6" SHEETS.

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX TYPE B - DETAILS 2

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40683

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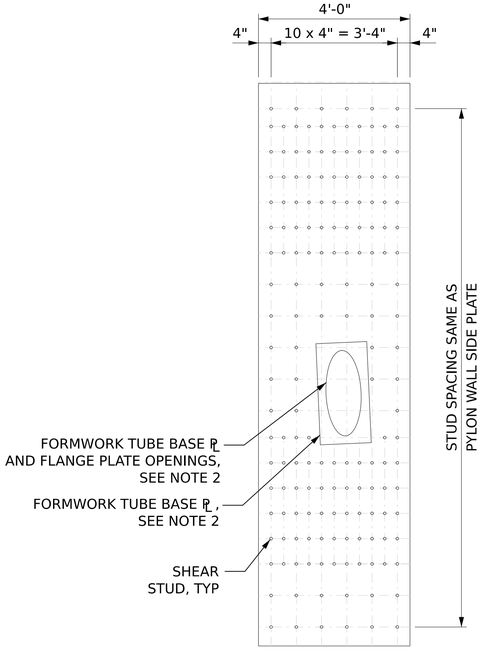
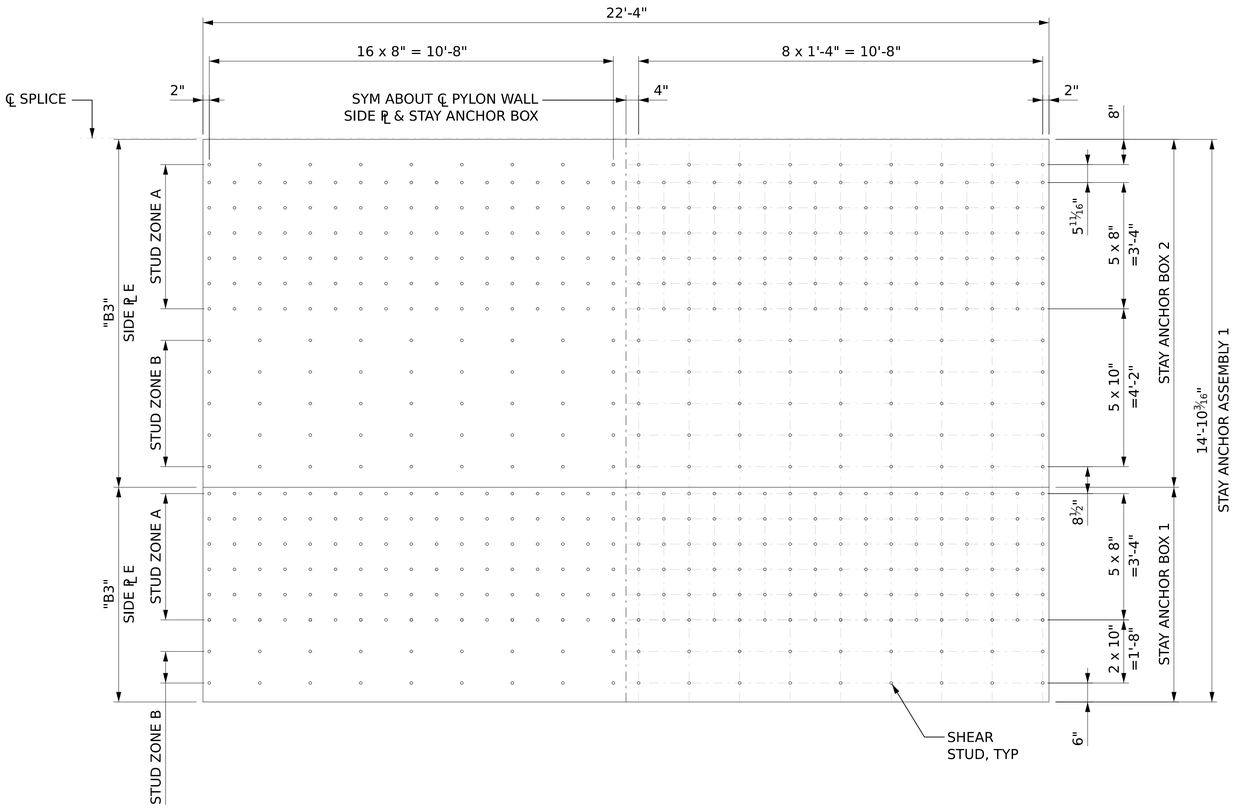


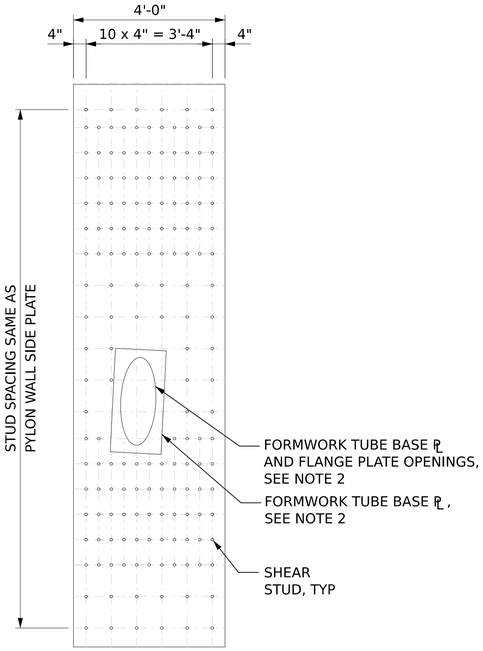
FLANGE PLATE - STAY ANCHOR ASSEMBLY 1

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 1

SCALE: 1/2" = 1'-0"



FLANGE PLATE - STAY ANCHOR ASSEMBLY 1

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)

NOTES:

1. WORK THIS DRAWING WITH "STAY ANCHOR BOX - SCHEDULES" SHEETS.
2. FOR FORMWORK TUBE DETAILS, SEE "STAY ANCHOR BOX - DETAILS 6".
3. STAY ANCHOR ASSEMBLY SAA29-1S THROUGH SAA29-8S SHOWN. OTHER STAY ANCHOR ASSEMBLIES SIMILAR.
4. FOR ADDITIONAL NOTES, SEE "PYLON P29 & P30 - STAY ANCHOR BOX - ISOMETRIC VIEWS" SHEET.

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DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 1

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40684

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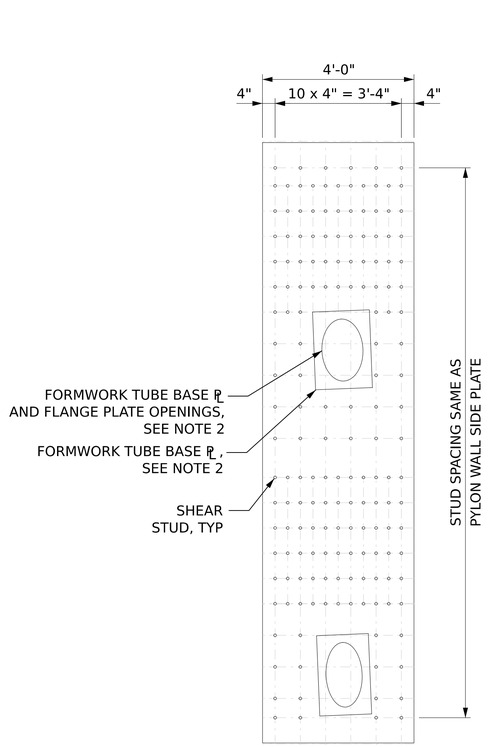
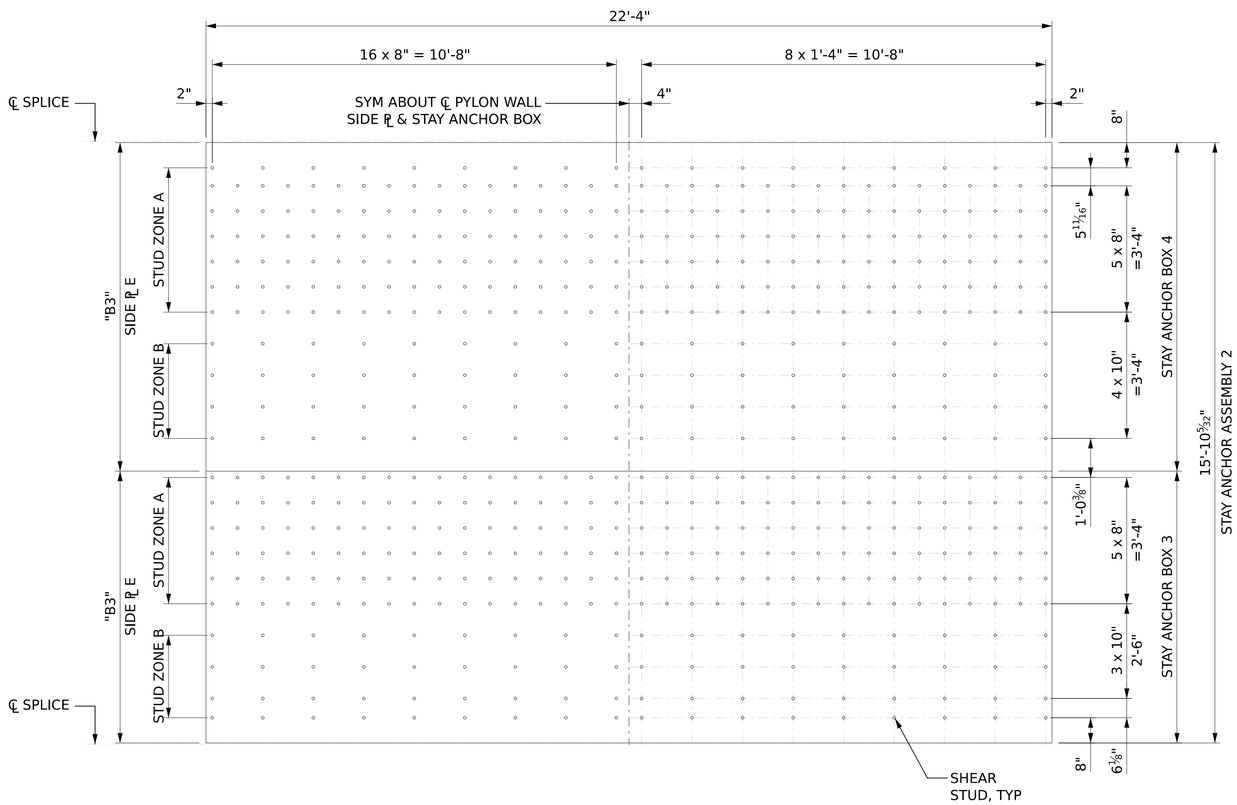


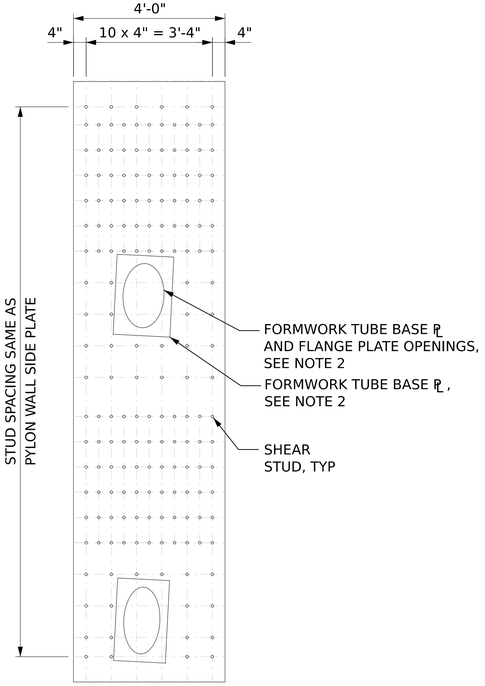
FLANGE PLATE - STAY ANCHOR ASSEMBLY 2

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 2

SCALE: 1/2" = 1'-0"



FLANGE PLATE - STAY ANCHOR ASSEMBLY 2

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - DETAILS 1" SHEET.

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 2

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SHEET REFERENCE
0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40685

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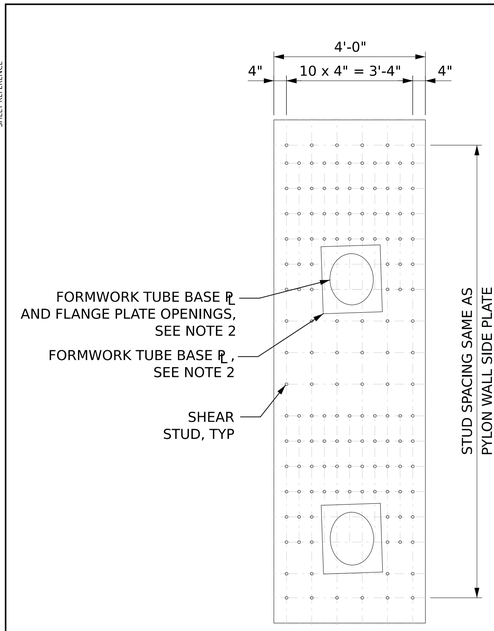
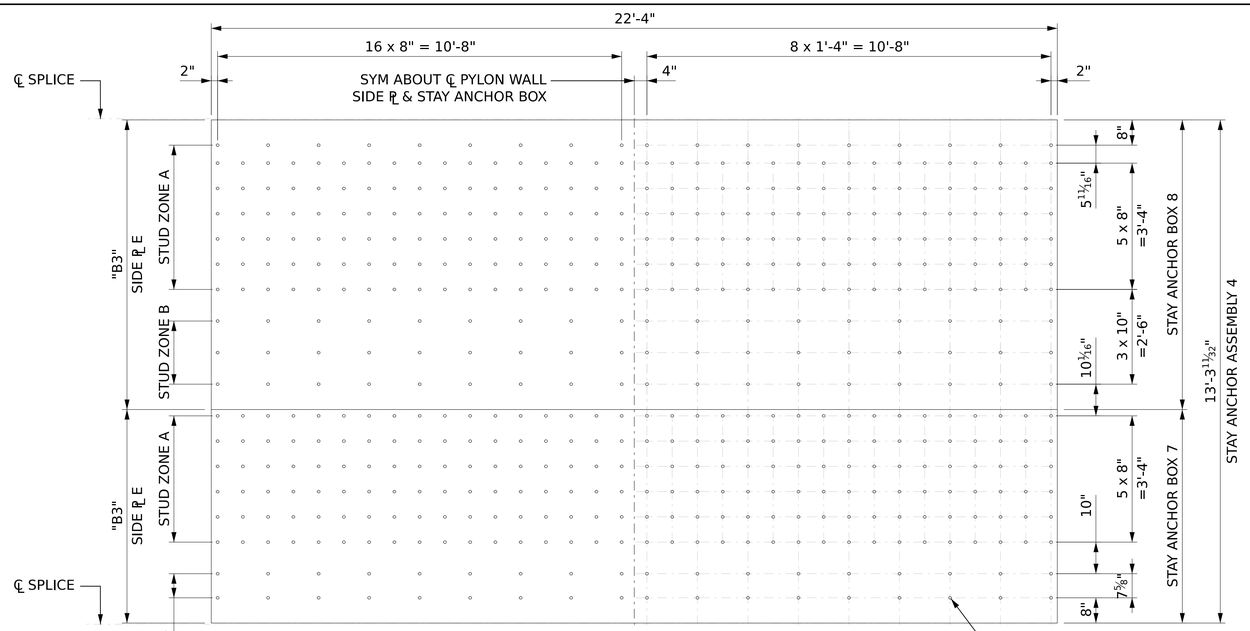


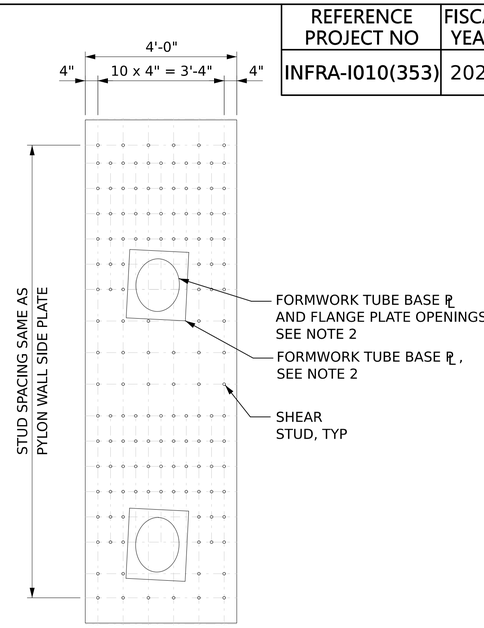
FLANGE PLATE - STAY ANCHOR ASSEMBLY 4

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



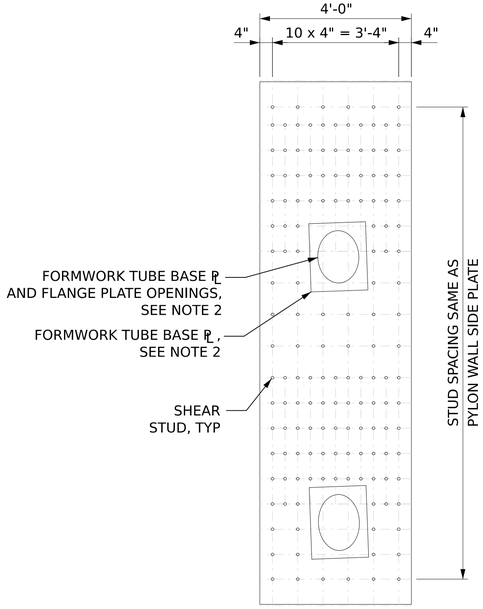
PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 4

SCALE: 1/2" = 1'-0"



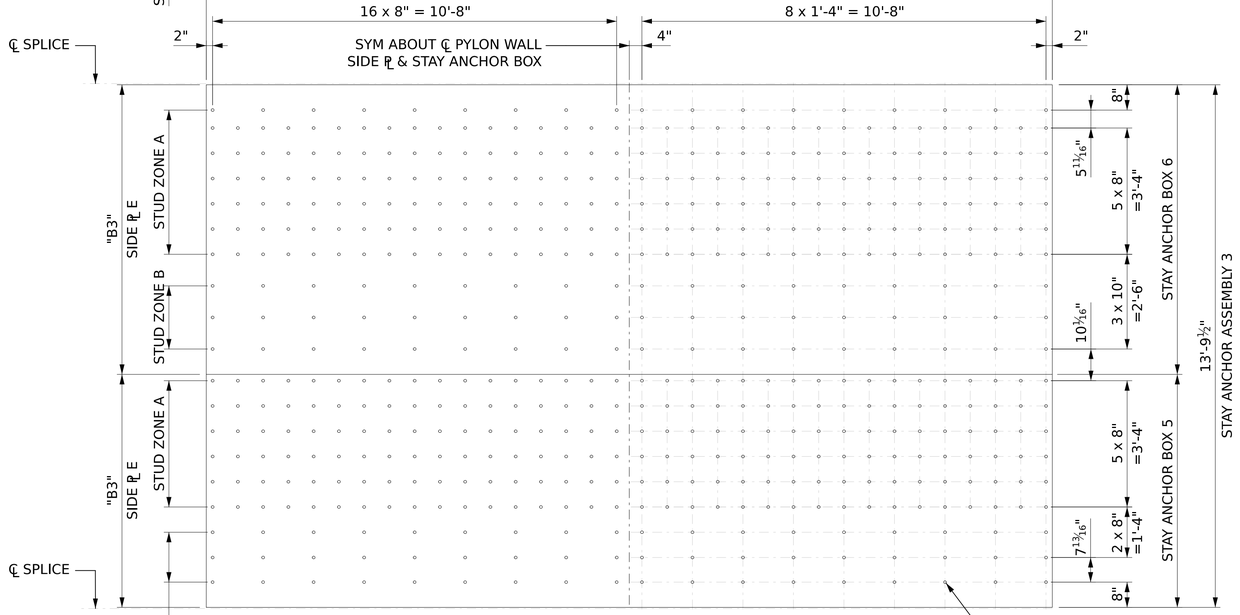
FLANGE PLATE - STAY ANCHOR ASSEMBLY 4

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)



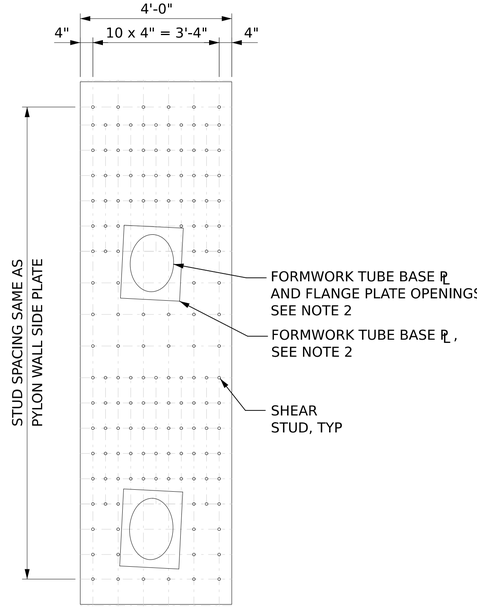
FLANGE PLATE - STAY ANCHOR ASSEMBLY 3

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 3

SCALE: 1/2" = 1'-0"



FLANGE PLATE - STAY ANCHOR ASSEMBLY 3

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - DETAILS 1" SHEET.

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BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 3

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INFRA-I010(353)	2025	S04-BR-40686

PRELIMINARY
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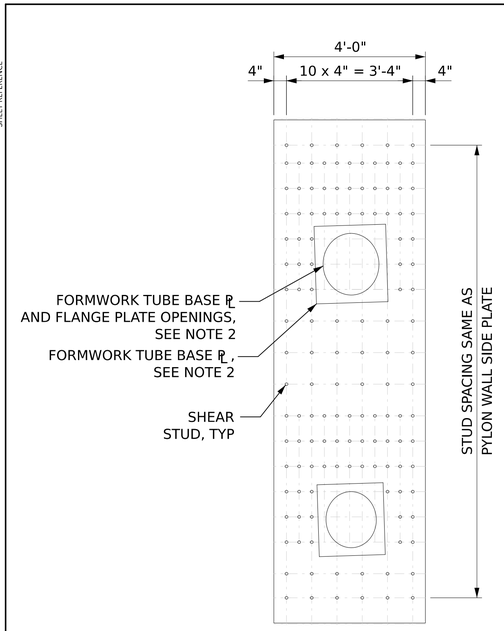
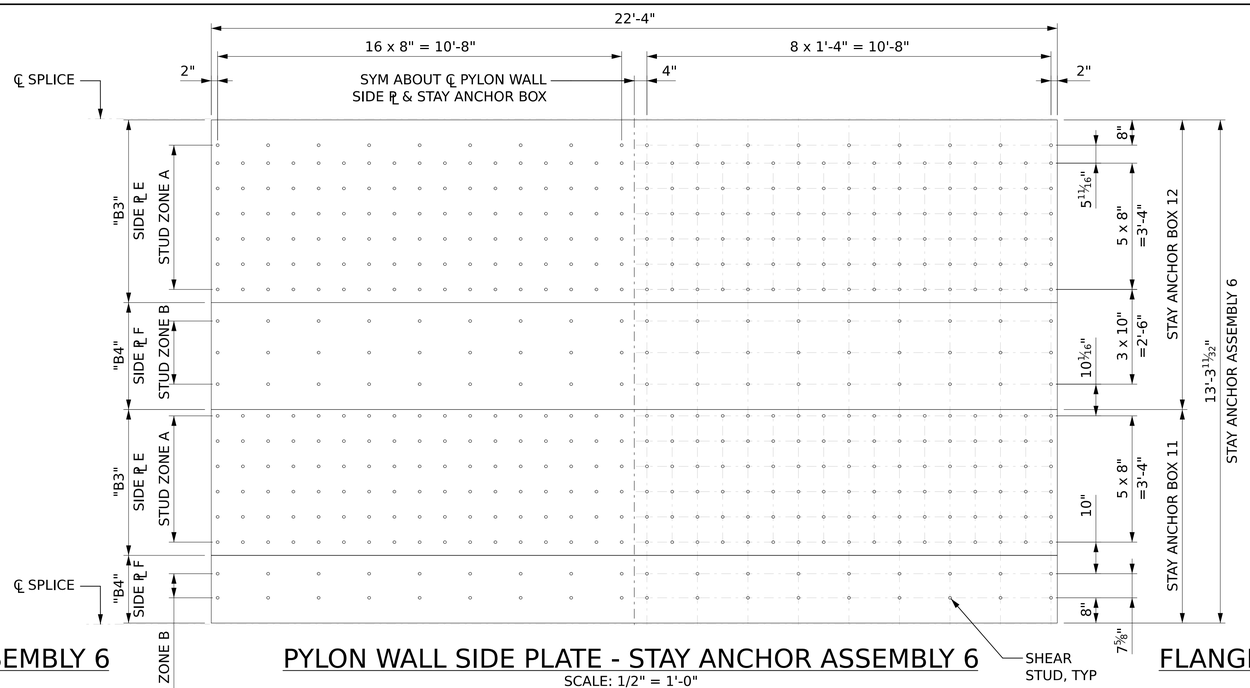
SHEET REFERENCE 0 1" 2"



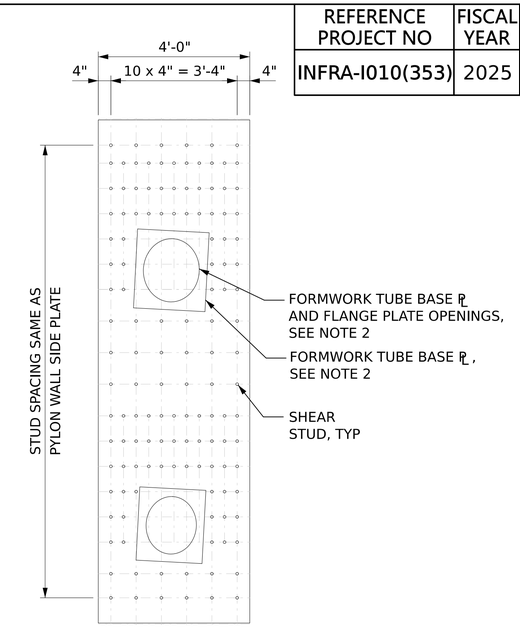
FLANGE PLATE - STAY ANCHOR ASSEMBLY 6

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



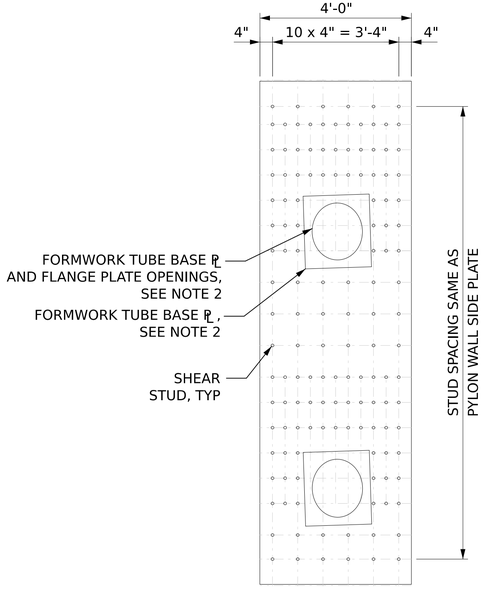
PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 6

SCALE: 1/2" = 1'-0"



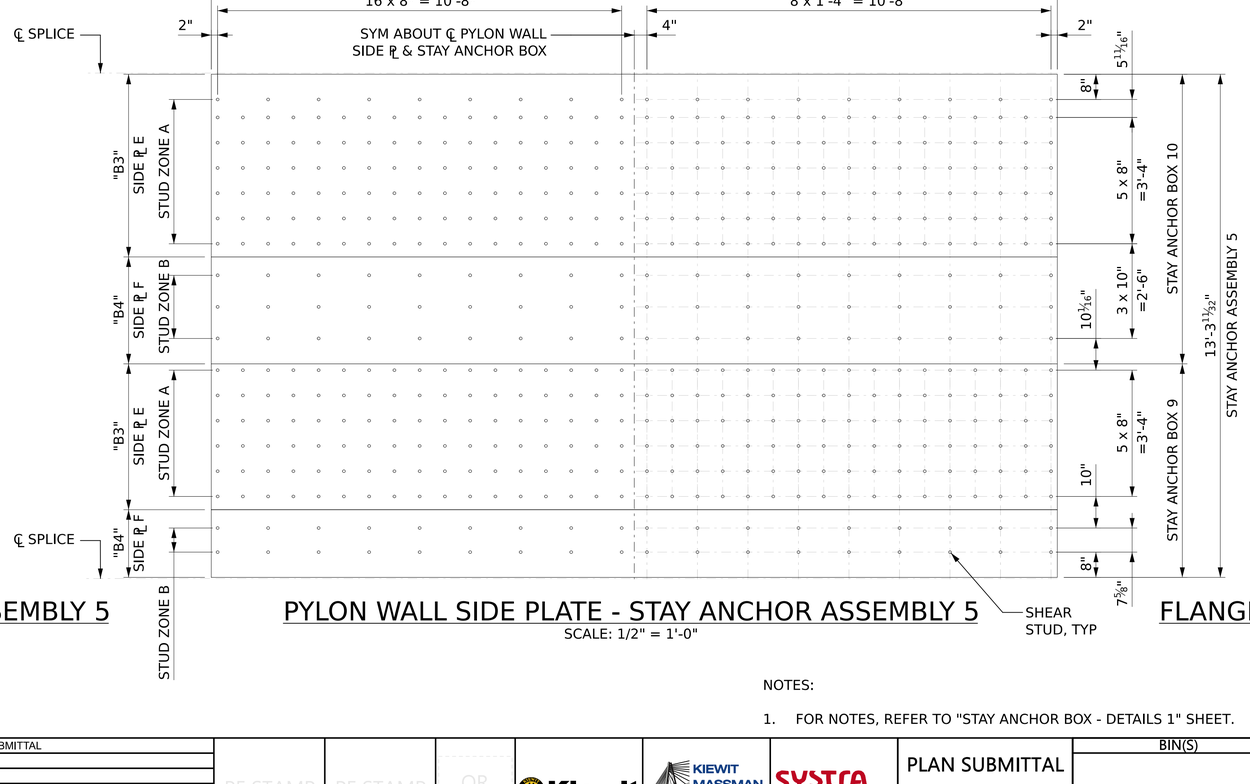
FLANGE PLATE - STAY ANCHOR ASSEMBLY 6

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)



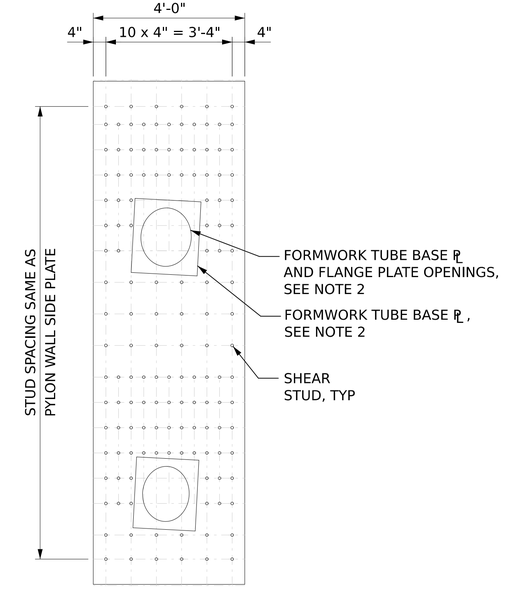
FLANGE PLATE - STAY ANCHOR ASSEMBLY 5

SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)



PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 5

SCALE: 1/2" = 1'-0"



FLANGE PLATE - STAY ANCHOR ASSEMBLY 5

SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - DETAILS 1" SHEET.

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BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 4

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40687

PRELIMINARY
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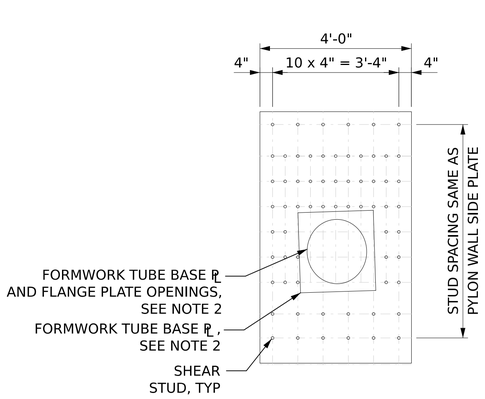
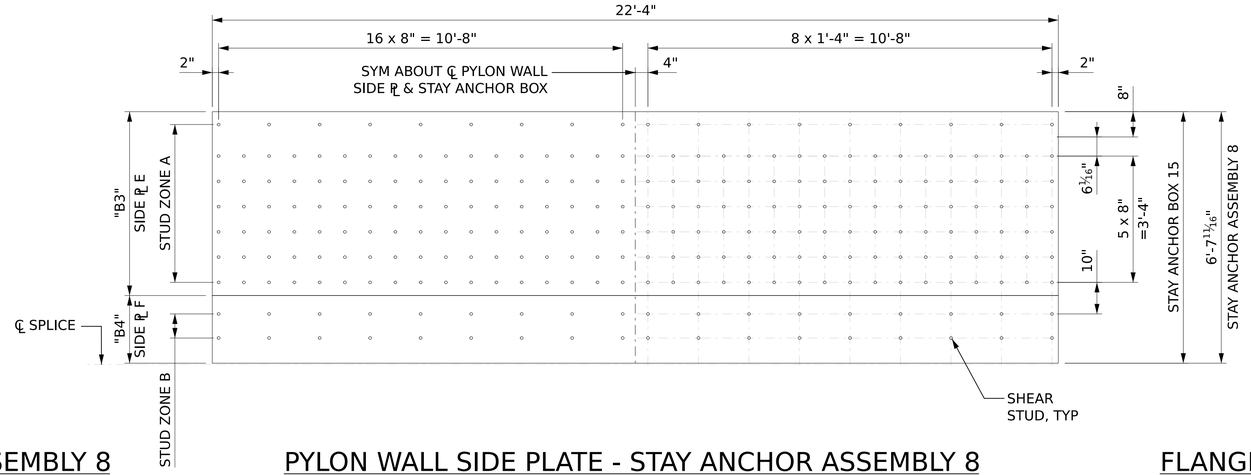
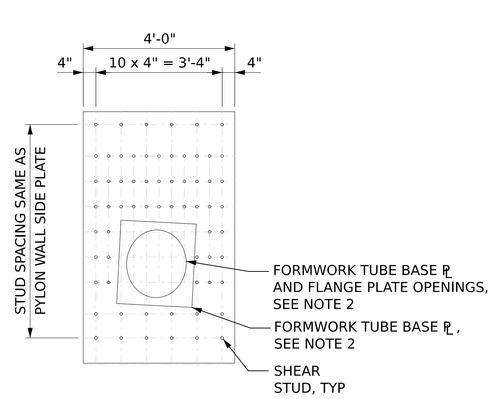
SHEET REFERENCE 0 1" 2"



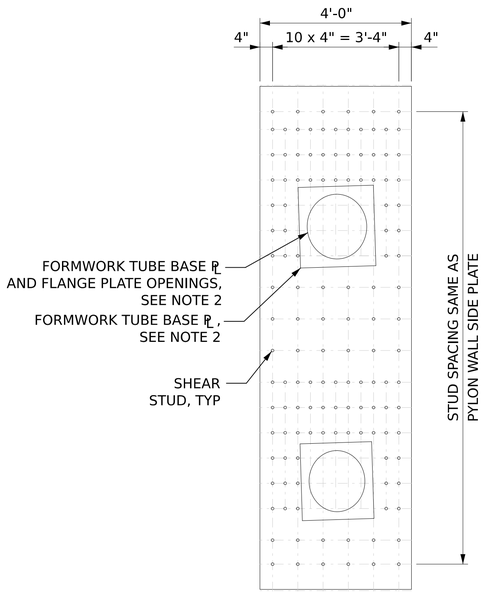


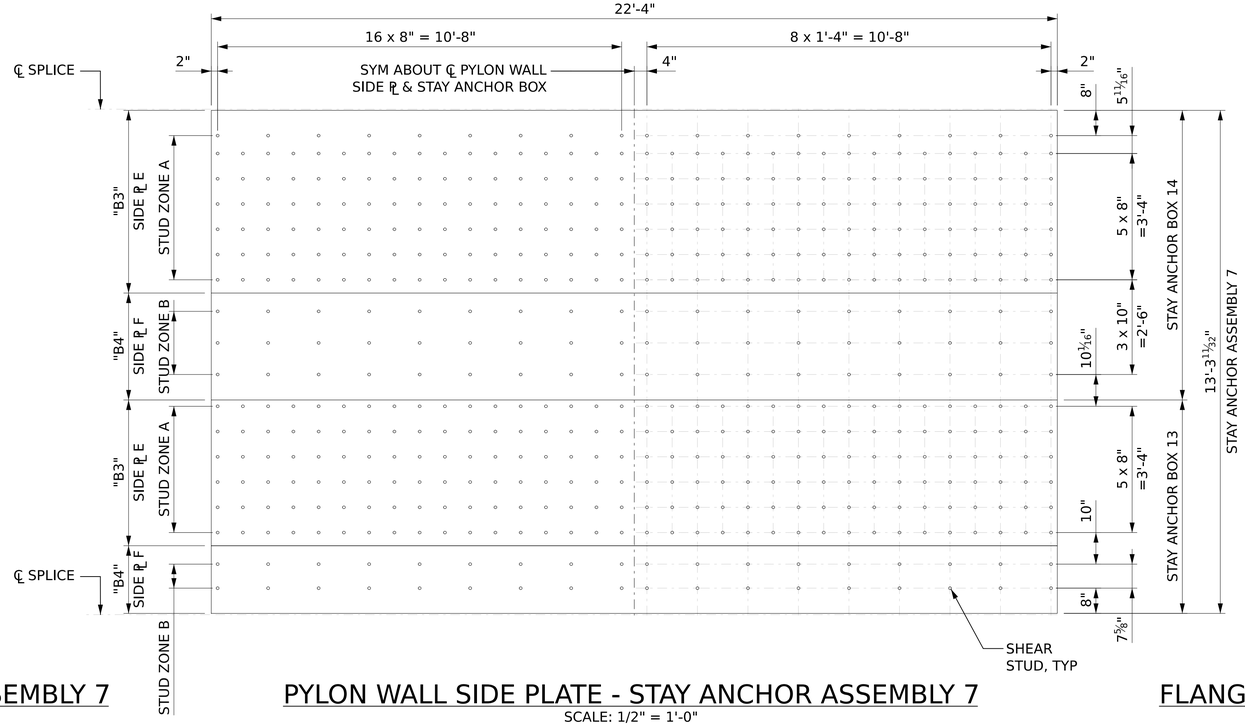


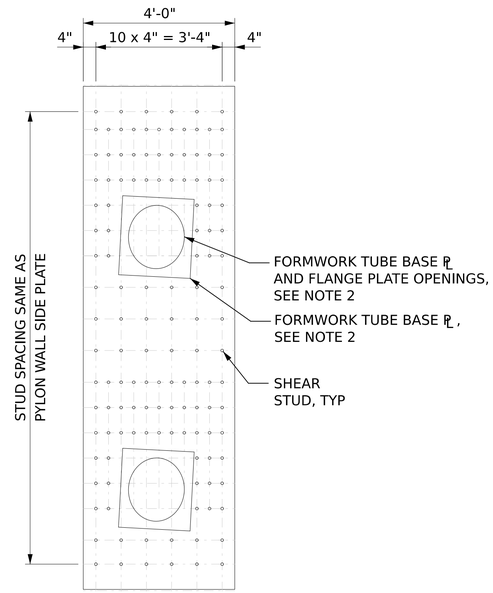
FLANGE PLATE - STAY ANCHOR ASSEMBLY 8
SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)

PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 8
SCALE: 1/2" = 1'-0"

FLANGE PLATE - STAY ANCHOR ASSEMBLY 8
SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)







FLANGE PLATE - STAY ANCHOR ASSEMBLY 7
SCALE: 1/2" = 1'-0"
(MAIN SPAN SIDE)

PYLON WALL SIDE PLATE - STAY ANCHOR ASSEMBLY 7
SCALE: 1/2" = 1'-0"

FLANGE PLATE - STAY ANCHOR ASSEMBLY 7
SCALE: 1/2" = 1'-0"
(BACK SPAN SIDE)

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - DETAILS 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
PE STAMP DATE
QR CODE

Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

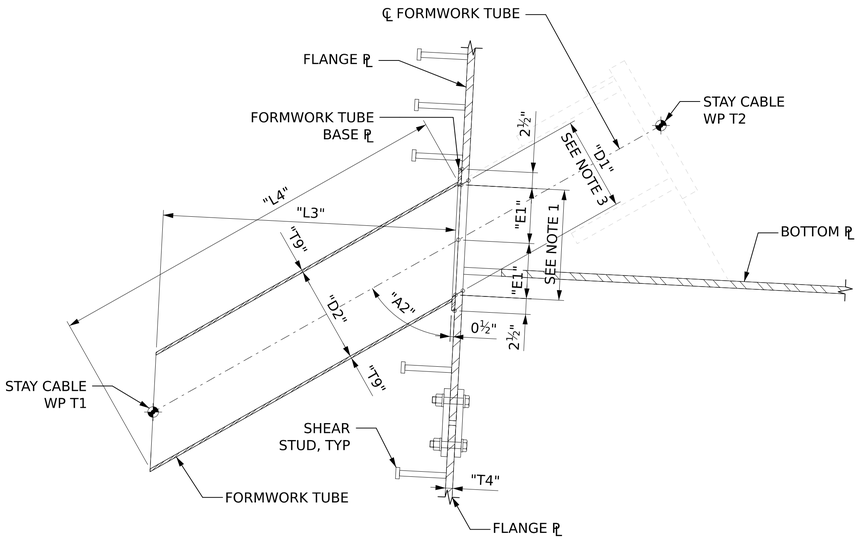
DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 5

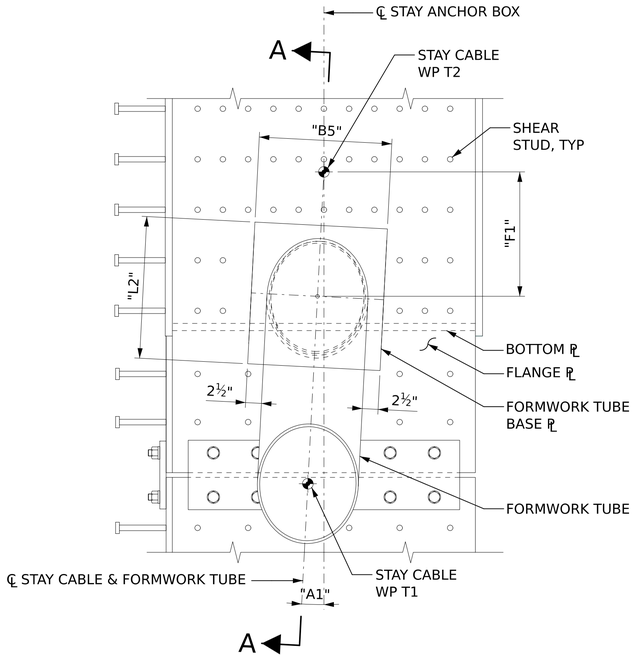
MRB-S04-BR-40687.dgn
rweibel
12:03:12 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40688

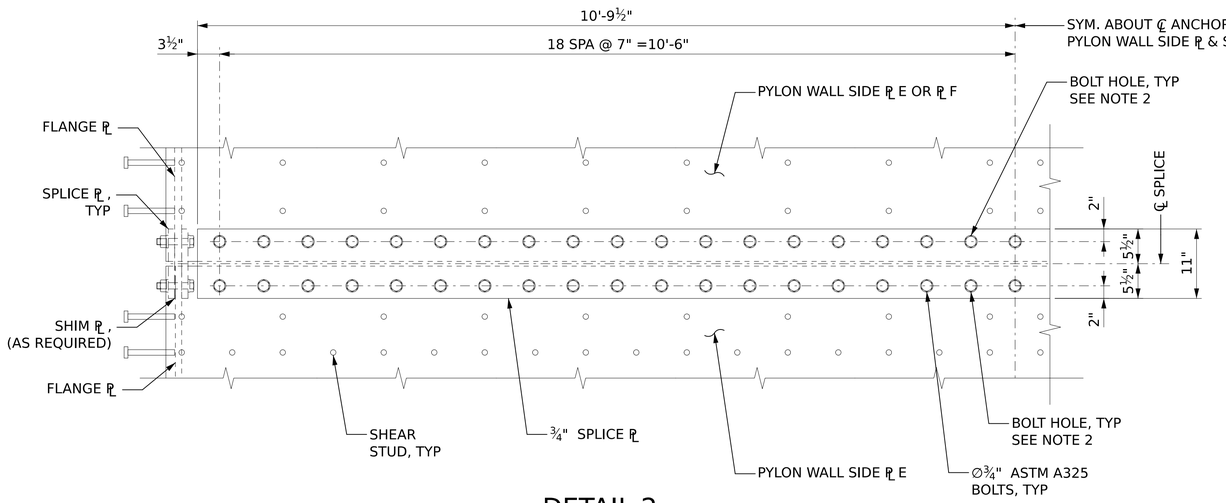
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



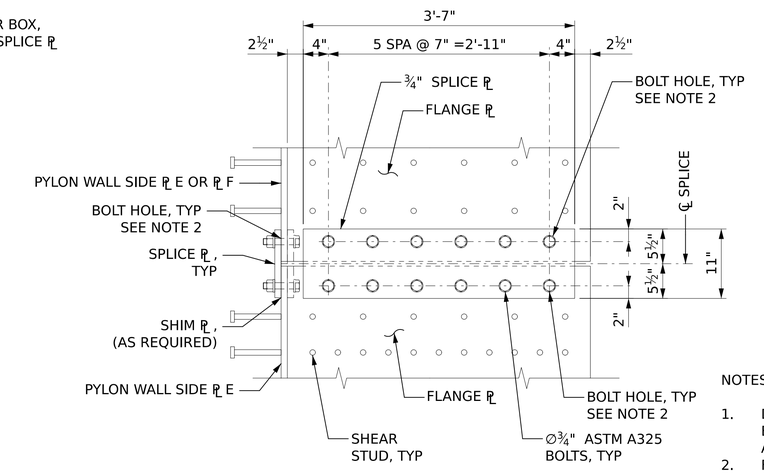
SECTION A-A
SCALE: 1" = 1'-0"



DETAIL 1
SCALE: 1" = 1'-0"
DETAIL FOR STAY CABLE S29B-9S SHOWN.
FORMWORK TUBE FOR OTHER STAY CABLES SIMILAR.



DETAIL 2
SCALE: 1" = 1'-0"



DETAIL 3
SCALE: 1" = 1'-0"

NOTES:

1. DIMENSION "E1" IS THE SEMI-MAJOR AXIS OF THE ELLIPTICAL OPENING OF THE FORMWORK TUBE BASE PLATE AND FLANGE PLATE.
2. FOR SPLICE PLATE HOLES ABOVE CL SPLICE, SIZE SHALL BE OVERSIZED. FOR SPLICE PLATE HOLES BELOW CL SPLICE, SIZE SHALL BE STANDARD. ALL BOLT HOLES ON PYLON WALL SIDE PLATE AND FLANGE PLATE SHALL BE STANDARD.
3. DIAMETER "D1" IS THE PROJECTION OF THE BEARING PLATE HOLE FROM STAY CABLE WP T2 TO WP T1.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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Kiewit
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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - DETAILS 6

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rweibel
12:03:21 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40689

STAY ANCHOR BOX - SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX		STAY CABLE	ANCHOR SIZE	BEARING PLATE				WEB PLATES A & B				LONG. SUPPORT PL. C & D			STAY ANCHOR BOX PLATES						
																				PYLON WALL SIDE PLATE			
					PLATE THICK. (IN)	PLATE WIDTH (IN)	PLATE LENGTH (IN)	HOLE DIAM. (IN)	PLATE THICK. (IN)	PLATE WIDTH (IN)	℄ A OFFSET (IN)	℄ B OFFSET (IN)	PLATE THICK. (IN)	℄ C OFFSET (IN)	℄ D OFFSET (IN)	FLANGE ℄ THICK. (IN)	BOTTOM ℄ THICK. (IN)	SIDE ℄ THICK. (IN)	℄ E THICK. (IN)	℄ E WIDTH (IN)	℄ F THICK. (IN)	℄ F WIDTH (IN)
DESIG.	DESIG.	TYPE	DESIG.		"T1"	"B1"	"L1"	"D1"	"T2"	"B2"	"FA"	"FB"	"T3"	"FC"	"FD"	"T4"	"T5"	"T6"	"T7"	"B3"	"T8"	"B4"
SAA29-8N	SAB29-15N	B	S29B-15N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S29M-15N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
SAA29-7N	SAB29-14N	B	S29B-14N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	2.000	2.000	2.000		1.000	
			S29M-14N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
	SAB29-13N	B	S29B-13N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**	1.750	1.750	1.750		1.000	
			S29M-13N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**						
SAA29-6N	SAB29-12N	B	S29B-12N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	1.750	1.750	1.750		1.000	
			S29M-12N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB29-11N	B	S29B-11N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S29M-11N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA29-5N	SAB29-10N	B	S29B-10N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250	1.500	1.500	1.500		1.000	
			S29M-10N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250						
	SAB29-9N	B	S29B-9N	61	2.750	24.250	23.250	14.7500	2.000	18.000	7.6250	7.6250	2.000	8.1250	8.1250	**	1.500	1.500	1.500		1.000	
			S29M-9N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA29-4N	SAB29-8N	B	S29B-8N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29M-8N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-7N	B	S29B-7N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S29M-7N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA29-3N	SAB29-6N	B	S29B-6N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29M-6N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-5N	B	S29B-5N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S29M-5N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA29-2N	SAB29-4N	A	S29B-4N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29M-4N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-3N	A	S29B-3N	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**	1.000	1.000	1.000		–	–
			S29M-3N	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**						
SAA29-1N	SAB29-2N	A	S29B-2N	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000	1.000	1.000	1.000		–	–
			S29M-2N	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000						
	SAB29-1N	A	S29B-1N	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**	1.000	1.000	1.000		–	–
			S29M-1N	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**						
SAA29-8S	SAB29-15S	B	S29M-15S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S29B-15S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
SAA29-7S	SAB29-14S	B	S29M-14S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S29B-14S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB29-13S	B	S29M-13S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**	1.750	1.750	1.750		1.000	
			S29B-13S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**						
SAA29-6S	SAB29-12S	B	S29M-12S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	1.750	1.750	1.750		1.000	
			S29B-12S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB29-11S	B	S29M-11S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S29B-11S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA29-5S	SAB29-10S	B	S29M-10S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250	1.500	1.500	1.500		1.000	
			S29B-10S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250						
	SAB29-9S	B	S29M-9S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S29B-9S	61	2.750	24.250	23.250	14.7500	2.000	18.000	7.6250	7.6250	2.000	8.1250	8.1250	**						
SAA29-4S	SAB29-8S	B	S29M-8S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29B-8S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-7S	B	S29M-7S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S29B-7S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA29-3S	SAB29-6S	B	S29M-6S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29B-6S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-5S	B	S29M-5S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S29B-5S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA29-2S	SAB29-4S	A	S29M-4S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S29B-4S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB29-3S	A	S29M-3S	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**	1.000	1.000	1.000		–	–
			S29B-3S	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**						
SAA29-1S	SAB29-2S	A	S29M-2S	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000	1.000	1.000	1.000		–	–
			S29B-2S	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000						
	SAB29-1S	A	S29M-1S	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**	1.000	1.000	1.000		–	–
			S29B-1S	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**						

** SAME AS STAY ANCHOR BOX "N+1"

NOTES:

1. FOR DIMENSION DEFINITIONS, SEE "STAY ANCHOR BOX DETAILS" SHEETS.

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BRIDGE ENGINEER DATE

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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12:03:38 PM
3/14/2025

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - SCHEDULE 1

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40690

STAY ANCHOR BOX - SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX		STAY CABLE	ANCHOR SIZE	BEARING PLATE				WEB PLATES A & B				LONG. SUPPORT PL. C & D			STAY ANCHOR BOX PLATES						
																		PYLON WALL SIDE PLATE					
					PLATE THICK. (IN)	PLATE WIDTH (IN)	PLATE LENGTH (IN)	HOLE DIAM. (IN)	PLATE THICK. (IN)	PLATE WIDTH (IN)	℄ A OFFSET (IN)	℄ B OFFSET (IN)	PLATE THICK. (IN)	℄ C OFFSET (IN)	℄ D OFFSET (IN)	FLANGE ℄ THICK. (IN)	BOTTOM ℄ THICK. (IN)	SIDE ℄ THICK. (IN)	℄ E THICK. (IN)	℄ E WIDTH (IN)	℄ F THICK. (IN)	℄ F WIDTH (IN)
DESIG.	DESIG.	TYPE	DESIG.		"T1"	"B1"	"L1"	"D1"	"T2"	"B2"	"FA"	"FB"	"T3"	"FC"	"FD"	"T4"	"T5"	"T6"	"T7"	"B3"	"T8"	"B4"
SAA30-8N	SAB30-15N	B	S30M-15N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S30B-15N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
SAA30-7N	SAB30-14N	B	S30M-14N	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S30B-14N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB30-13N	B	S30M-13N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**	1.750	1.750	1.750		1.000	
			S30B-13N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**						
SAA30-6N	SAB30-12N	B	S30M-12N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	1.750	1.750	1.750		1.000	
			S30B-12N	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB30-11N	B	S30M-11N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S30B-11N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA30-5N	SAB30-10N	B	S30M-10N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250	1.500	1.500	1.500		1.000	
			S30B-10N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250						
	SAB30-9N	B	S30M-9N	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S30B-9N	61	2.750	24.250	23.250	14.7500	2.000	18.000	7.6250	7.6250	2.000	8.1250	8.1250	**						
SAA30-4N	SAB30-8N	B	S30M-8N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30B-8N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-7N	B	S30M-7N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S30B-7N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA30-3N	SAB30-6N	B	S30M-6N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30B-6N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-5N	B	S30M-5N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S30B-5N	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA30-2N	SAB30-4N	A	S30M-4N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30B-4N	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-3N	A	S30M-3N	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**	1.000	1.000	1.000		–	–
			S30B-3N	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**						
SAA30-1N	SAB30-2N	A	S30M-2N	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000	1.000	1.000	1.000		–	–
			S30B-2N	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000						
	SAB30-1N	A	S30M-1N	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**	1.000	1.000	1.000		–	–
			S30B-1N	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**						
SAA30-8S	SAB30-15S	B	S30B-15S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500	2.000	2.000	2.000		1.000	
			S30M-15S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
SAA30-7S	SAB30-14S	B	S30B-14S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	2.000	2.000	2.000		1.000	
			S30M-14S	109	3.750	30.875	29.875	18.8750	3.000	18.000	9.9375	9.9375	3.000	10.4375	10.4375	1.500						
	SAB30-13S	B	S30B-13S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**	1.750	1.750	1.750		1.000	
			S30M-13S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	**						
SAA30-6S	SAB30-12S	B	S30B-12S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500	1.750	1.750	1.750		1.000	
			S30M-12S	91	3.500	28.125	27.125	17.6875	2.500	18.000	9.0625	9.0625	2.500	9.5625	9.5625	1.500						
	SAB30-11S	B	S30B-11S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**	1.500	1.500	1.500		1.000	
			S30M-11S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA30-5S	SAB30-10S	B	S30B-10S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250	1.500	1.500	1.500		1.000	
			S30M-10S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	1.250						
	SAB30-9S	B	S30B-9S	61	2.750	24.250	23.250	14.7500	2.000	18.000	7.6250	7.6250	2.000	8.1250	8.1250	**	1.500	1.500	1.500		1.000	
			S30M-9S	75	3.250	26.250	25.250	15.9375	2.250	18.000	8.3750	8.3750	2.250	8.8750	8.8750	**						
SAA30-4S	SAB30-8S	B	S30B-8S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30M-8S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-7S	B	S30B-7S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S30M-7S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA30-3S	SAB30-6S	B	S30B-6S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30M-6S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-5S	B	S30B-5S	55	2.750	22.375	21.375	13.7500	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**	1.000	1.000	1.000		–	–
			S30M-5S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	**						
SAA30-2S	SAB30-4S	A	S30B-4S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000	1.000	1.000	1.000		–	–
			S30M-4S	48	2.500	22.375	21.375	13.0000	1.750	18.000	6.9375	6.9375	1.750	7.4375	7.4375	1.000						
	SAB30-3S	A	S30B-3S	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**	1.000	1.000	1.000		–	–
			S30M-3S	37	2.250	20.125	19.125	11.4375	1.500	18.000	6.0625	6.0625	1.500	6.5625	6.5625	**						
SAA30-1S	SAB30-2S	A	S30B-2S	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000	1.000	1.000	1.000		–	–
			S30M-2S	31	2.250	18.625	17.625	10.6250	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	1.000						
	SAB30-1S	A	S30B-1S	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**	1.000	1.000	1.000		–	–
			S30M-1S	27	2.000	18.625	17.625	10.2500	1.250	18.000	5.5625	5.5625	1.250	6.0625	6.0625	**						

** SAME AS STAY ANCHOR BOX "N+1"

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - SCHEDULE 1" SHEET.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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ACCEPTED BY

BRIDGE ENGINEER DATE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40691

STAY ANCHOR BOX - SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX		STAY CABLE	WELDS			FORMWORK TUBE AND BASE PLATE								
				FILLET WELD SIZE (IN)	FILLET WELD SIZE (IN)	FILLET WELD SIZE (IN)	ORIEN-TATION ANGLE (DEG)	FORMWORK TUBE BASE PLATE				FORMWORK TUBE				
								OFFSET (IN)	WIDTH (IN)	LENGTH (IN)	SEMI-MAJOR AXIS (IN)	ANGLE (DEG)	THICK. (IN)	INNER DIAM. (IN)	SKEW LENGTH (IN)	UNCUT LENGTH (IN)
DESIG.	DESIG.	TYPE	DESIG.	"W1"	"W2"	"W3"	"A1"	"F1"	"B5"	"L2"	"E1"	"A2"	"T9"	"D2"	"L3"	"L4"
SAA29-8N	SAB29-15N	B	S29B-15N				2.917	16.926	25.875	26.433	10.717	61.719	0.500	19.875	46.000	63.466
			S29M-15N				1.821	12.863	25.875	25.389	10.195	67.778	0.500	19.875	46.000	58.219
SAA29-7N	SAB29-14N	B	S29B-14N				2.949	16.856	24.000	25.067	10.033	61.817	0.438	18.125	46.000	62.368
			S29M-14N				1.805	13.387	25.875	25.510	10.255	66.965	0.500	19.875	46.000	58.861
	SAB29-13N	B	S29B-13N				2.993	16.800	24.000	25.052	10.026	61.895	0.438	18.125	46.000	62.296
			S29M-13N				1.784	13.989	24.000	24.355	9.677	66.043	0.438	18.125	46.000	58.779
SAA29-6N	SAB29-12N	B	S29B-12N				3.036	16.736	24.000	25.035	10.018	61.985	0.438	18.125	46.000	62.215
			S29M-12N				1.778	14.714	24.000	24.524	9.762	64.952	0.438	18.125	46.000	59.655
	SAB29-11N	B	S29B-11N				3.024	17.488	22.500	23.235	9.117	60.928	0.375	16.750	46.000	62.360
			S29M-11N				1.807	15.621	22.500	22.791	8.896	63.611	0.375	16.750	46.000	60.033
SAA29-5N	SAB29-10N	B	S29B-10N				2.984	18.439	22.500	23.512	9.256	59.423	0.375	16.750	46.250	64.060
			S29M-10N				1.835	16.576	22.500	23.043	9.021	62.045	0.375	16.750	46.250	61.647
	SAB29-9N	B	S29B-9N				2.943	19.781	21.000	22.463	8.732	57.632	0.375	15.250	46.250	64.899
			S29M-9N				1.862	17.896	22.500	23.368	9.184	60.188	0.375	16.750	46.250	63.331
SAA29-4N	SAB29-8N	B	S29B-8N				2.916	21.331	19.500	21.698	8.349	55.433	0.313	13.875	46.500	66.459
			S29M-8N				1.897	19.409	19.500	21.225	8.113	57.935	0.313	13.875	46.500	63.954
	SAB29-7N	B	S29B-7N				2.903	23.578	19.500	22.283	8.642	52.709	0.313	13.875	46.500	69.491
			S29M-7N				1.954	21.588	19.500	21.759	8.379	55.131	0.313	13.875	46.500	66.779
SAA29-3N	SAB29-6N	B	S29B-6N				2.899	26.622	19.500	23.134	9.067	49.309	0.313	13.875	46.500	73.795
			S29M-6N				2.027	24.547	19.500	21.586	8.293	51.609	0.313	13.875	46.500	70.816
	SAB29-5N	B	S29B-5N				2.884	30.901	19.500	24.427	9.713	45.055	0.313	13.875	46.500	80.170
			S29M-5N				2.121	28.776	19.500	22.743	8.872	47.111	0.313	13.875	46.500	76.935
SAA29-2N	SAB29-4N	A	S29B-4N				2.872	37.326	19.500	25.362	10.181	39.675	0.313	13.875	46.500	90.316
			S29M-4N				2.234	35.158	19.500	24.665	9.832	41.382	0.313	13.875	46.500	86.796
	SAB29-3N	A	S29B-3N				2.867	48.206	17.750	26.165	10.582	32.711	0.313	12.125	46.500	105.898
			S29M-3N				2.371	45.997	17.750	25.477	10.239	33.956	0.313	12.125	46.500	102.185
SAA29-1N	SAB29-2N	A	S29B-2N				2.884	71.013	16.750	31.585	13.293	23.557	0.313	11.125	46.500	143.300
			S29M-2N				2.534	68.685	16.750	30.849	12.925	24.270	0.313	11.125	46.500	139.187
	SAB29-1N	A	S29B-1N				2.907	150.229	16.750	55.782	25.391	11.645	0.313	11.125	46.500	287.390
			S29M-1N				2.724	147.604	16.750	54.923	24.962	11.848	0.313	11.125	46.500	282.491
SAA29-8S	SAB29-15S	B	S29M-15S				1.821	12.863	25.875	25.389	10.195	67.778	0.500	19.875	46.000	58.219
			S29B-15S				2.916	16.925	25.875	26.433	10.717	61.719	0.500	19.875	46.000	63.466
SAA29-7S	SAB29-14S	B	S29M-14S				1.805	13.387	25.875	25.510	10.255	66.965	0.500	19.875	46.000	58.861
			S29B-14S				2.949	16.856	24.000	25.066	10.033	61.817	0.438	18.125	46.000	62.367
	SAB29-13S	B	S29M-13S				1.785	13.989	24.000	24.355	9.677	66.043	0.438	18.125	46.000	58.779
			S29B-13S				2.993	16.799	24.000	25.052	10.026	61.896	0.438	18.125	46.000	62.296
SAA29-6S	SAB29-12S	B	S29M-12S				1.778	14.714	24.000	24.524	9.762	64.952	0.438	18.125	46.000	59.655
			S29B-12S				3.036	16.736	24.000	25.035	10.018	61.985	0.438	18.125	46.000	62.214
	SAB29-11S	B	S29M-11S				1.807	15.621	22.500	22.791	8.896	63.611	0.375	16.750	46.000	60.033
			S29B-11S				3.024	17.488	22.500	23.235	9.117	60.928	0.375	16.750	46.000	62.360
SAA29-5S	SAB29-10S	B	S29M-10S				1.835	16.576	22.500	23.043	9.021	62.045	0.375	16.750	46.250	61.647
			S29B-10S				2.984	18.439	22.500	23.511	9.256	59.424	0.375	16.750	46.250	64.059
	SAB29-9S	B	S29M-9S				1.862	17.896	22.500	23.368	9.184	60.188	0.375	16.750	46.250	63.331
			S29B-9S				2.943	19.781	21.000	22.463	8.732	57.633	0.375	15.250	46.250	64.899
SAA29-4S	SAB29-8S	B	S29M-8S				1.897	19.409	19.500	21.225	8.113	57.935	0.313	13.875	46.500	63.954
			S29B-8S				2.916	21.331	19.500	21.698	8.349	55.433	0.313	13.875	46.500	66.459
	SAB29-7S	B	S29M-7S				1.954	21.588	19.500	21.759	8.379	55.131	0.313	13.875	46.500	66.779
			S29B-7S				2.903	23.578	19.500	22.283	8.642	52.709	0.313	13.875	46.500	69.491
SAA29-3S	SAB29-6S	B	S29M-6S				2.027	24.547	19.500	21.586	8.293	51.609	0.313	13.875	46.500	70.816
			S29B-6S				2.899	26.622	19.500	23.134	9.067	49.309	0.313	13.875	46.500	73.795
	SAB29-5S	B	S29M-5S				2.121	28.776	19.500	22.743	8.872	47.111	0.313	13.875	46.500	76.935
			S29B-5S				2.884	30.901	19.500	24.427	9.713	45.055	0.313	13.875	46.500	80.170
SAA29-2S	SAB29-4S	A	S29M-4S				2.234	35.158	19.500	24.665	9.832	41.382	0.313	13.875	46.500	86.796
			S29B-4S				2.872	37.326	19.500	25.362	10.181	39.675	0.313	13.875	46.500	90.316
	SAB29-3S	A	S29M-3S				2.371	45.997	17.750	25.477	10.239	33.956	0.313	12.125	46.500	102.185
			S29B-3S				2.867	48.206	17.750	26.165	10.582	32.711	0.313	12.125	46.500	105.898
SAA29-1S	SAB29-2S	A	S29M-2S				2.534	68.685	16.750	30.849	12.925	24.270	0.313	11.125	46.500	139.187
			S29B-2S				2.884	71.013	16.750	31.585	13.293	23.557	0.313	11.125	46.500	143.300
	SAB29-1S	A	S29M-1S				2.724	147.604	16.750	54.923	24.962	11.848	0.313	11.125	46.500	282.491
			S29B-1S				2.907	150.229	16.750	55.782	25.391	11.645	0.313	11.125	46.500	287.390

NOTES:

1. FOR DIMENSION DEFINITIONS, SEE "STAY ANCHOR BOX DETAILS" SHEETS.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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ACCEPTED BY

BRIDGE ENGINEER DATE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40692

STAY ANCHOR BOX - SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX		STAY CABLE	WELDS			FORMWORK TUBE AND BASE PLATE								
				FILLET WELD SIZE (IN)	FILLET WELD SIZE (IN)	FILLET WELD SIZE (IN)	ORIEN-TATION ANGLE (DEG)	FORMWORK TUBE BASE PLATE				FORMWORK TUBE				
								OFFSET (IN)	WIDTH (IN)	LENGTH (IN)	SEMI-MAJOR AXIS (IN)	ANGLE (DEG)	THICK. (IN)	INNER DIAM. (IN)	SKEW LENGTH (IN)	UNCUT LENGTH (IN)
DESIG.	DESIG.	TYPE	DESIG.	"W1"	"W2"	"W3"	"A1"	"F1"	"B5"	"L2"	"E1"	"A2"	"T9"	"D2"	"L3"	"L4"
SAA30-8N	SAB30-15N	B	S30M-15N				1.758	12.791	25.875	25.373	10.187	67.890	0.500	19.875	46.000	58.132
			S30B-15N				2.961	17.000	25.875	26.455	10.727	61.613	0.500	19.875	46.000	63.568
SAA30-7N	SAB30-14N	B	S30M-14N				1.743	13.315	25.875	25.493	10.247	67.078	0.500	19.875	46.000	58.772
			S30B-14N				2.994	16.930	24.000	25.086	10.043	61.711	0.438	18.125	46.000	62.465
	SAB30-13N	B	S30M-13N				1.725	13.916	24.000	24.338	9.669	66.155	0.438	18.125	46.000	58.691
			S30B-13N				3.038	16.874	24.000	25.072	10.036	61.790	0.438	18.125	46.000	62.393
SAA30-6N	SAB30-12N	B	S30M-12N				1.721	14.640	24.000	24.506	9.753	65.062	0.438	18.125	46.000	59.564
			S30B-12N				3.081	16.810	24.000	25.055	10.027	61.879	0.438	18.125	46.000	62.311
	SAB30-11N	B	S30M-11N				1.753	15.547	22.500	22.775	8.887	63.720	0.375	16.750	46.000	59.944
			S30B-11N				3.067	17.562	22.500	23.253	9.127	60.824	0.375	16.750	46.000	62.455
SAA30-5N	SAB30-10N	B	S30M-10N				1.784	16.502	22.500	23.025	9.013	62.152	0.375	16.750	46.250	61.554
			S30B-10N				3.024	18.513	22.500	23.531	9.265	59.322	0.375	16.750	46.250	64.157
	SAB30-9N	B	S30M-9N				1.815	17.823	22.500	23.350	9.175	60.290	0.375	16.750	46.250	63.235
			S30B-9N				2.981	19.854	21.000	22.482	8.741	57.536	0.375	15.250	46.250	64.995
SAA30-4N	SAB30-8N	B	S30M-8N				1.854	19.336	19.500	21.208	8.104	58.033	0.313	13.875	46.500	63.861
			S30B-8N				2.951	21.404	19.500	21.716	8.358	55.341	0.313	13.875	46.500	66.556
	SAB30-7N	B	S30M-7N				1.915	21.514	19.500	21.740	8.370	55.224	0.313	13.875	46.500	66.680
			S30B-7N				2.935	23.651	19.500	22.303	8.652	52.622	0.313	13.875	46.500	69.593
SAA30-3N	SAB30-6N	B	S30M-6N				1.994	24.473	19.500	21.567	8.283	51.693	0.313	13.875	46.500	70.712
			S30B-6N				2.927	26.695	19.500	23.156	9.078	49.231	0.313	13.875	46.500	73.901
	SAB30-5N	B	S30M-5N				2.093	28.702	19.500	22.722	8.861	47.185	0.313	13.875	46.500	76.824
			S30B-5N				2.908	30.975	19.500	24.450	9.725	44.986	0.313	13.875	46.500	80.284
SAA30-2N	SAB30-4N	A	S30M-4N				2.211	35.082	19.500	24.641	9.820	41.444	0.313	13.875	46.500	86.676
			S30B-4N				2.892	37.401	19.500	25.387	10.193	39.618	0.313	13.875	46.500	90.438
	SAB30-3N	A	S30M-3N				2.353	45.920	17.750	25.453	10.227	34.000	0.313	12.125	46.500	102.058
			S30B-3N				2.883	48.282	17.750	26.189	10.594	32.670	0.313	12.125	46.500	106.027
SAA30-1N	SAB30-2N	A	S30M-2N				2.522	68.606	16.750	30.824	12.912	24.295	0.313	11.125	46.500	139.047
			S30B-2N				2.895	71.091	16.750	31.610	13.305	23.533	0.313	11.125	46.500	143.439
	SAB30-1N	A	S30M-1N				2.717	147.515	16.750	54.894	24.947	11.855	0.313	11.125	46.500	282.325
			S30B-1N				2.913	150.316	16.750	55.810	25.405	11.638	0.313	11.125	46.500	287.552
SAA30-8S	SAB30-15S	B	S30B-15S				2.961	17.000	25.875	26.455	10.727	61.614	0.500	19.875	46.000	63.567
			S30M-15S				1.758	12.791	25.875	25.373	10.187	67.890	0.500	19.875	46.000	58.132
SAA30-7S	SAB30-14S	B	S30B-14S				2.994	16.930	24.000	25.086	10.043	61.711	0.438	18.125	46.000	62.464
			S30M-14S				1.743	13.315	25.875	25.493	10.247	67.078	0.500	19.875	46.000	58.772
	SAB30-13S	B	S30B-13S				3.037	16.874	24.000	25.072	10.036	61.790	0.438	18.125	46.000	62.392
			S30M-13S				1.725	13.916	24.000	24.338	9.669	66.155	0.438	18.125	46.000	58.691
SAA30-6S	SAB30-12S	B	S30B-12S				3.081	16.810	24.000	25.055	10.027	61.879	0.438	18.125	46.000	62.311
			S30M-12S				1.721	14.640	24.000	24.506	9.753	65.062	0.438	18.125	46.000	59.564
	SAB30-11S	B	S30B-11S				3.067	17.562	22.500	23.253	9.127	60.824	0.375	16.750	46.000	62.455
			S30M-11S				1.753	15.547	22.500	22.775	8.887	63.720	0.375	16.750	46.000	59.944
SAA30-5S	SAB30-10S	B	S30B-10S				3.024	18.512	22.500	23.531	9.265	59.323	0.375	16.750	46.250	64.157
			S30M-10S				1.784	16.502	22.500	23.025	9.013	62.152	0.375	16.750	46.250	61.554
	SAB30-9S	B	S30B-9S				2.980	19.854	21.000	22.482	8.741	57.536	0.375	15.250	46.250	64.995
			S30M-9S				1.815	17.823	22.500	23.350	9.175	60.290	0.375	16.750	46.250	63.235
SAA30-4S	SAB30-8S	B	S30B-8S				2.951	21.404	19.500	21.716	8.358	55.341	0.313	13.875	46.500	66.556
			S30M-8S				1.854	19.336	19.500	21.208	8.104	58.033	0.313	13.875	46.500	63.861
	SAB30-7S	B	S30B-7S				2.935	23.651	19.500	22.303	8.652	52.623	0.313	13.875	46.500	69.593
			S30M-7S				1.915	21.514	19.500	21.740	8.370	55.224	0.313	13.875	46.500	66.680
SAA30-3S	SAB30-6S	B	S30B-6S				2.927	26.695	19.500	23.156	9.078	49.231	0.313	13.875	46.500	73.901
			S30M-6S				1.994	24.473	19.500	21.567	8.283	51.693	0.313	13.875	46.500	70.712
	SAB30-5S	B	S30B-5S				2.908	30.975	19.500	24.450	9.725	44.986	0.313	13.875	46.500	80.284
			S30M-5S				2.093	28.702	19.500	22.722	8.861	47.185	0.313	13.875	46.500	76.824
SAA30-2S	SAB30-4S	A	S30B-4S				2.892	37.401	19.500	25.387	10.193	39.618	0.313	13.875	46.500	90.438
			S30M-4S				2.211	35.082	19.500	24.641	9.820	41.444	0.313	13.875	46.500	86.676
	SAB30-3S	A	S30B-3S				2.883	48.282	17.750	26.189	10.594	32.670	0.313	12.125	46.500	106.027
			S30M-3S				2.353	45.920	17.750	25.453	10.227	34.000	0.313	12.125	46.500	102.058
SAA30-1S	SAB30-2S	A	S30B-2S				2.895	71.091	16.750	31.610	13.305	23.533	0.313	11.125	46.500	143.439
			S30M-2S				2.522	68.606	16.750	30.824	12.912	24.295	0.313	11.125	46.500	139.047
	SAB30-1S	A	S30B-1S				2.913	150.316	16.750	55.810	25.405	11.638	0.313	11.125	46.500	287.552
			S30M-1S				2.717	147.515	16.750	54.894	24.947	11.855	0.313	11.125	46.500	282.325

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - SCHEDULE 3" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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3/14/2025

2" 1" 0 SHEET REFERENCE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

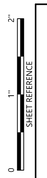
BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - SCHEDULE 4



REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40693

STAY ANCHOR BOX - SHEAR STUD SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX	STAY CABLE	FLANGE PLATE STUD ZONE A			FLANGE PLATE STUD ZONE B			PYLON WALL SIDE PLATE STUD ZONE A			PYLON WALL SIDE PLATE STUD ZONE B		
			MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS
SAA29-8N	SAB29-15N	S29B-15N	11	7	56	6	2	12	34	7	238	18	2	36
		S29M-15N	11	7	56	6	2	12						
SAA29-7N	SAB29-14N	S29B-14N	11	7	56	6	3	18	34	7	238	18	3	54
		S29M-14N	11	7	56	6	3	18						
	SAB29-13N	S29B-13N	11	6	45	6	2	12	34	6	204	18	2	36
		S29M-13N	11	6	45	6	2	12						
SAA29-6N	SAB29-12N	S29B-12N	11	7	59	6	3	18	34	7	238	18	3	54
		S29M-12N	11	7	59	6	3	18						
	SAB29-11N	S29B-11N	11	6	48	6	2	12	34	6	204	18	2	36
		S29M-11N	11	6	48	6	2	12						
SAA29-5N	SAB29-10N	S29B-10N	11	7	59	6	3	18	34	7	238	18	3	54
		S29M-10N	11	7	59	6	3	18						
	SAB29-9N	S29B-9N	11	6	51	6	2	12	34	6	204	18	2	36
		S29M-9N	11	6	51	6	2	12						
SAA29-4N	SAB29-8N	S29B-8N	11	7	67	6	3	18	34	7	238	18	3	54
		S29M-8N	11	7	67	6	3	18						
	SAB29-7N	S29B-7N	11	6	56	6	2	9	34	6	204	18	2	36
		S29M-7N	11	6	56	6	2	9						
SAA29-3N	SAB29-6N	S29B-6N	11	7	67	6	3	18	34	7	238	18	3	54
		S29M-6N	11	7	67	6	3	18						
	SAB29-5N	S29B-5N	11	6	61	6	3	15	34	6	204	18	3	54
		S29M-5N	11	6	61	6	3	15						
SAA29-2N	SAB29-4N	S29B-4N	11	7	72	6	4	24	34	7	238	18	4	72
		S29M-4N	11	7	72	6	4	24						
	SAB29-3N	S29B-3N	11	6	66	6	4	18	34	6	204	18	4	72
		S29M-3N	11	6	66	6	4	18						
SAA29-1N	SAB29-2N	S29B-2N	11	7	77	6	5	30	34	7	238	18	5	90
		S29M-2N	11	7	77	6	5	30						
	SAB29-1N	S29B-1N	11	6	56	6	2	3	34	6	204	18	2	36
		S29M-1N	11	6	56	6	2	3						
SAA29-8S	SAB29-15S	S29M-15S	11	7	56	6	2	12	34	7	238	18	2	36
		S29B-15S	11	7	56	6	2	12						
SAA29-7S	SAB29-14S	S29M-14S	11	7	56	6	3	18	34	7	238	18	3	54
		S29B-14S	11	7	56	6	3	18						
	SAB29-13S	S29M-13S	11	6	45	6	2	12	34	6	204	18	2	36
		S29B-13S	11	6	45	6	2	12						
SAA29-6S	SAB29-12S	S29M-12S	11	7	59	6	3	18	34	7	238	18	3	54
		S29B-12S	11	7	59	6	3	18						
	SAB29-11S	S29M-11S	11	6	48	6	2	12	34	6	204	18	2	36
		S29B-11S	11	6	48	6	2	12						
SAA29-5S	SAB29-10S	S29M-10S	11	7	59	6	3	18	34	7	238	18	3	54
		S29B-10S	11	7	59	6	3	18						
	SAB29-9S	S29M-9S	11	6	51	6	2	12	34	6	204	18	2	36
		S29B-9S	11	6	51	6	2	12						
SAA29-4S	SAB29-8S	S29M-8S	11	7	67	6	3	18	34	7	238	18	3	54
		S29B-8S	11	7	67	6	3	18						
	SAB29-7S	S29M-7S	11	6	56	6	2	9	34	6	204	18	2	36
		S29B-7S	11	6	56	6	2	9						
SAA29-3S	SAB29-6S	S29M-6S	11	7	67	6	3	18	34	7	238	18	3	54
		S29B-6S	11	7	67	6	3	18						
	SAB29-5S	S29M-5S	11	6	61	6	3	15	34	6	204	18	3	54
		S29B-5S	11	6	61	6	3	15						
SAA29-2S	SAB29-4S	S29M-4S	11	7	72	6	4	24	34	7	238	18	4	72
		S29B-4S	11	7	72	6	4	24						
	SAB29-3S	S29M-3S	11	6	66	6	4	18	34	6	204	18	4	72
		S29B-3S	11	6	66	6	4	18						
SAA29-1S	SAB29-2S	S29M-2S	11	7	77	6	5	30	34	7	238	18	5	90
		S29B-2S	11	7	77	6	5	30						
	SAB29-1S	S29M-1S	11	6	56	6	2	3	34	6	204	18	2	36
		S29B-1S	11	6	56	6	2	3						

NOTES:

1. FOR DIMENSION DEFINITIONS, SEE "STAY ANCHOR BOX DETAILS" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - SCHEDULE 5

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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40694

STAY ANCHOR BOX - SHEAR STUD SCHEDULE

STAY ANCHOR ASSEMBLY	STAY ANCHOR BOX	STAY CABLE	FLANGE PLATE STUD ZONE A			FLANGE PLATE STUD ZONE B			PYLON WALL SIDE PLATE STUD ZONE A			PYLON WALL SIDE PLATE STUD ZONE B		
			MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS	MAX STUDS PER ROW	NO. OF ROWS	NO. OF STUDS
SAA30-8N	SAB30-15N	S30M-15N	11	7	56	6	2	12	34	7	238	18	2	36
		S30B-15N	11	7	56	6	2	12						
SAA30-7N	SAB30-14N	S30M-14N	11	7	56	6	3	18	34	7	238	18	3	54
		S30B-14N	11	7	56	6	3	18						
	SAB30-13N	S30M-13N	11	6	45	6	2	12	34	6	204	18	2	36
		S30B-13N	11	6	45	6	2	12						
SAA30-6N	SAB30-12N	S30M-12N	11	7	59	6	3	18	34	7	238	18	3	54
		S30B-12N	11	7	59	6	3	18						
	SAB30-11N	S30M-11N	11	6	48	6	2	12	34	6	204	18	2	36
		S30B-11N	11	6	48	6	2	12						
SAA30-5N	SAB30-10N	S30M-10N	11	7	59	6	3	18	34	7	238	18	3	54
		S30B-10N	11	7	59	6	3	18						
	SAB30-9N	S30M-9N	11	6	51	6	2	12	34	6	204	18	2	36
		S30B-9N	11	6	51	6	2	12						
SAA30-4N	SAB30-8N	S30M-8N	11	7	67	6	3	18	34	7	238	18	3	54
		S30B-8N	11	7	67	6	3	18						
	SAB30-7N	S30M-7N	11	6	56	6	2	9	34	6	204	18	2	36
		S30B-7N	11	6	56	6	2	9						
SAA30-3N	SAB30-6N	S30M-6N	11	7	67	6	3	18	34	7	238	18	3	54
		S30B-6N	11	7	67	6	3	18						
	SAB30-5N	S30M-5N	11	6	61	6	3	15	34	6	204	18	3	54
		S30B-5N	11	6	61	6	3	15						
SAA30-2N	SAB30-4N	S30M-4N	11	7	72	6	4	24	34	7	238	18	4	72
		S30B-4N	11	7	72	6	4	24						
	SAB30-3N	S30M-3N	11	6	66	6	4	18	34	6	204	18	4	72
		S30B-3N	11	6	66	6	4	18						
SAA30-1N	SAB30-2N	S30M-2N	11	7	77	6	5	30	34	7	238	18	5	90
		S30B-2N	11	7	77	6	5	30						
	SAB30-1N	S30M-1N	11	6	56	6	2	3	34	6	204	18	2	36
		S30B-1N	11	6	56	6	2	3						
SAA30-8S	SAB30-15S	S30B-15S	11	7	56	6	2	12	34	7	238	18	2	36
		S30M-15S	11	7	56	6	2	12						
SAA30-7S	SAB30-14S	S30B-14S	11	7	56	6	3	18	34	7	238	18	3	54
		S30M-14S	11	7	56	6	3	18						
	SAB30-13S	S30B-13S	11	6	45	6	2	12	34	6	204	18	2	36
		S30M-13S	11	6	45	6	2	12						
SAA30-6S	SAB30-12S	S30B-12S	11	7	59	6	3	18	34	7	238	18	3	54
		S30M-12S	11	7	59	6	3	18						
	SAB30-11S	S30B-11S	11	6	48	6	2	12	34	6	204	18	2	36
		S30M-11S	11	6	48	6	2	12						
SAA30-5S	SAB30-10S	S30B-10S	11	7	59	6	3	18	34	7	238	18	3	54
		S30M-10S	11	7	59	6	3	18						
	SAB30-9S	S30B-9S	11	6	51	6	2	12	34	6	204	18	2	36
		S30M-9S	11	6	51	6	2	12						
SAA30-4S	SAB30-8S	S30B-8S	11	7	67	6	3	18	34	7	238	18	3	54
		S30M-8S	11	7	67	6	3	18						
	SAB30-7S	S30B-7S	11	6	56	6	2	9	34	6	204	18	2	36
		S30M-7S	11	6	56	6	2	9						
SAA30-3S	SAB30-6S	S30B-6S	11	7	67	6	3	18	34	7	238	18	3	54
		S30M-6S	11	7	67	6	3	18						
	SAB30-5S	S30B-5S	11	6	61	6	3	15	34	6	204	18	3	54
		S30M-5S	11	6	61	6	3	15						
SAA30-2S	SAB30-4S	S30B-4S	11	7	72	6	4	24	34	7	238	18	4	72
		S30M-4S	11	7	72	6	4	24						
	SAB30-3S	S30B-3S	11	6	66	6	4	18	34	6	204	18	4	72
		S30M-3S	11	6	66	6	4	18						
SAA30-1S	SAB30-2S	S30B-2S	11	7	77	6	5	30	34	7	238	18	5	90
		S30M-2S	11	7	77	6	5	30						
	SAB30-1S	S30B-1S	11	6	56	6	2	3	34	6	204	18	2	36
		S30M-1S	11	6	56	6	2	3						

NOTES:

1. FOR NOTES, REFER TO "STAY ANCHOR BOX - SCHEDULE 5" SHEET.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON P29 & P30

STAY ANCHOR BOX - SCHEDULE 6

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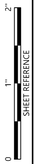

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40695

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

STAY ANCHOR BOX - SPLICE SCHEDULE

STAY ANCHOR ASSEMBLY ABOVE SPLICE	STAY ANCHOR ASSEMBLY BELOW SPLICE	SPLICE LOCATION	NO. OF BOLTS	SHIM PLATE THICK. (IN)
SAA29-8N	SAA29-7N	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA29-7N	SAA29-6N	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA29-6N	SAA29-5N	BACK SPAN FLANGE PLATE	12	0.250
		MAIN SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.750
SAA29-5N	SAA29-4N	BACK SPAN FLANGE PLATE	12	0.250
		MAIN SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.500
SAA29-4N	SAA29-3N	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA29-3N	SAA29-2N	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA29-2N	SAA29-1N	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA29-8S	SAA29-7S	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA29-7S	SAA29-6S	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA29-6S	SAA29-5S	MAIN SPAN FLANGE PLATE	12	0.250
		BACK SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.750
SAA29-5S	SAA29-4S	MAIN SPAN FLANGE PLATE	12	0.250
		BACK SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.500
SAA29-4S	SAA29-3S	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA29-3S	SAA29-2S	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA29-2S	SAA29-1S	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-

STAY ANCHOR BOX - SPLICE SCHEDULE

STAY ANCHOR ASSEMBLY ABOVE SPLICE	STAY ANCHOR ASSEMBLY BELOW SPLICE	SPLICE LOCATION	NO. OF BOLTS	SHIM PLATE THICK. (IN)
SAA30-8N	SAA30-7N	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA30-7N	SAA30-6N	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA30-6N	SAA30-5N	MAIN SPAN FLANGE PLATE	12	0.250
		BACK SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.750
SAA30-5N	SAA30-4N	MAIN SPAN FLANGE PLATE	12	0.250
		BACK SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.500
SAA30-4N	SAA30-3N	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA30-3N	SAA30-2N	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA30-2N	SAA30-1N	MAIN SPAN FLANGE PLATE	12	-
		BACK SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA30-8S	SAA30-7S	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA30-7S	SAA30-6S	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	1.000
SAA30-6S	SAA30-5S	BACK SPAN FLANGE PLATE	12	0.250
		MAIN SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.750
SAA30-5S	SAA30-4S	BACK SPAN FLANGE PLATE	12	0.250
		MAIN SPAN FLANGE PLATE	12	0.250
		PYLON WALL SIDE PLATE	74	0.500
SAA30-4S	SAA30-3S	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA30-3S	SAA30-2S	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-
SAA30-2S	SAA30-1S	BACK SPAN FLANGE PLATE	12	-
		MAIN SPAN FLANGE PLATE	12	-
		PYLON WALL SIDE PLATE	74	-

NOTES:

1. FOR DIMENSION DEFINITIONS, SEE "STAY ANCHOR BOX DETAILS" SHEETS.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

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BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
STAY ANCHOR BOX - SCHEDULE 7

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40696

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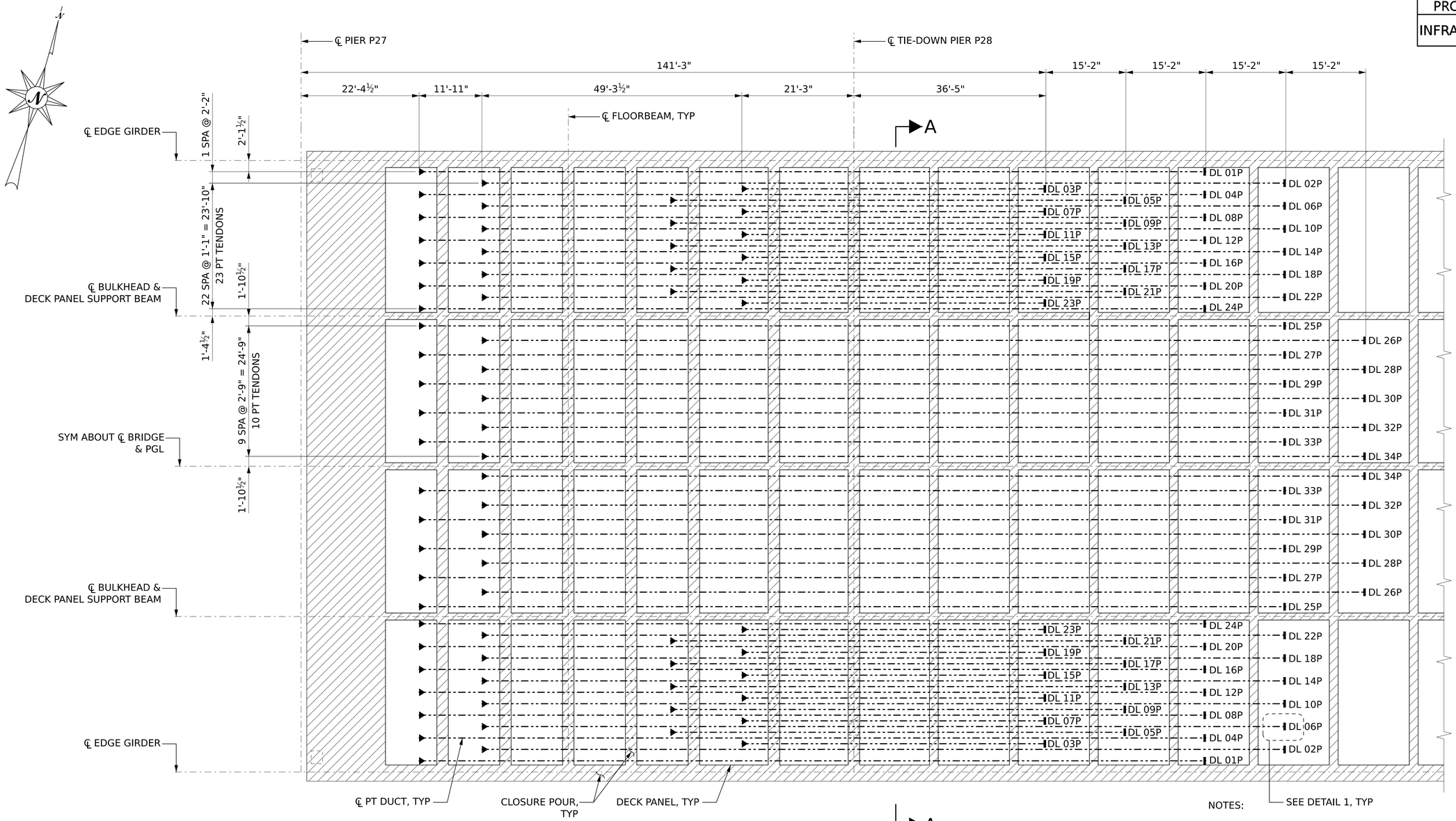

PT LAYOUT AT PIER P27

SCALE: 1" = 10'-0"

LEGEND:

- ▶---- INDICATES STRESSING END
- ┣---- INDICATES NON STRESSING END

DL 1 P
- P: PIER
  M: MAIN SPAN
- NUMBER
- LONGITUDINAL
  DECK TENDON

NOTES:

1. FOR SECTION A-A, SEE "DECK POST-TENSIONING - DETAILS 1" SHEET.
2. SHOWING PT LAYOUT AT PIER P27, PT LAYOUT AT PIER P32 IS SIMILAR.
3. P.T. DUCT SHALL BE FLAT DUCT; EACH P.T. TENSION SHALL CONSIST OF 4-0.60"Φ STRANDS CONFORMING TO REQUIREMENTS OF ASTM A416, GRADE 270.
4. STRESSING FORCE = 174 KIPS PER TENDON; P.T. TENDONS TO BE STRESSED AFTER CIP CLOSURE POURS ARE CAST.
5. FOR DETAIL 1, SEE "DECK POST-TENSIONING - DETAILS 2" SHEET.

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PLAN SUBMITTAL
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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK POST-TENSIONING
LAYOUT 1

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40697

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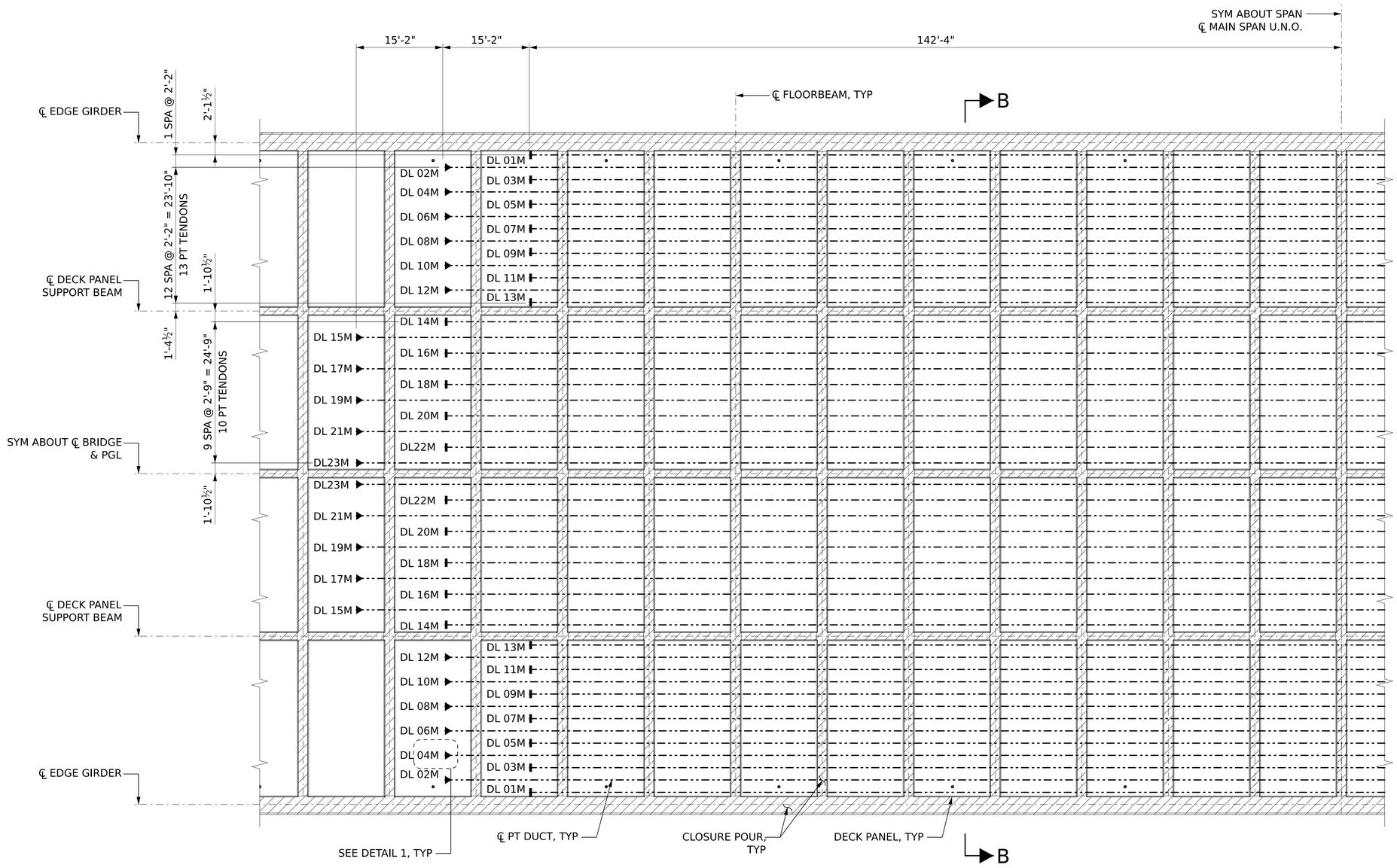

PT LAYOUT AT MAIN SPAN

SCALE: 1" = 10'-0"

LEGEND:

▶---- INDICATES STRESSING END

▌---- INDICATES NON STRESSING END

DL 1 M
- P: PIER
- M: MAIN SPAN
- NUMBER
- LONGITUDINAL DECK TENDON

NOTES:

1. WORK THIS DRAWING WITH "DECK POST-TENSIONING - LAYOUT 1" SHEET.
2. FOR SECTION B-B, SEE "DECK POST-TENSIONING - DETAILS 1" SHEET.
3. FOR DETAIL 1, SEE "DECK POST-TENSIONING - DETAILS 2" SHEET.

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK POST-TENSIONING
LAYOUT 2

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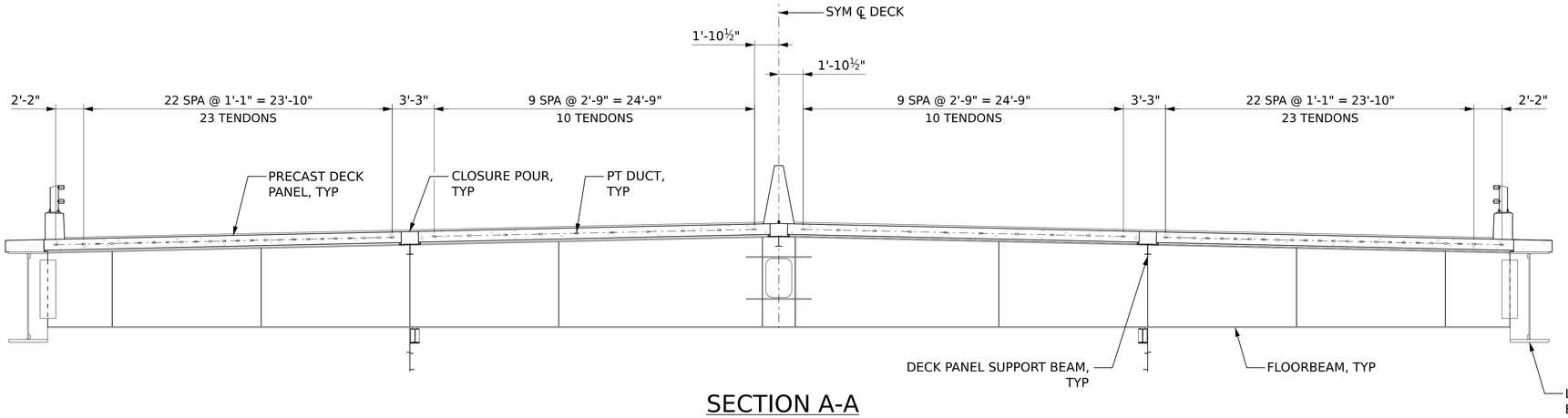
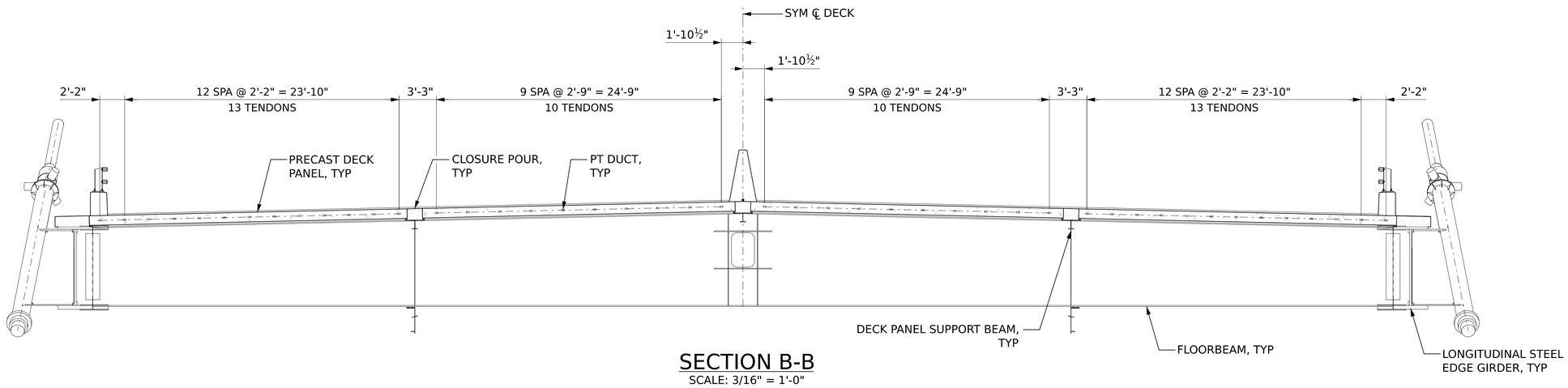
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40698



SECTION A-A

SCALE: 3/16" = 1'-0"
(SHOWING FLOORBEAM FB2, FB3 SIMILAR)



SECTION B-B

SCALE: 3/16" = 1'-0"
(SHOWING FLOORBEAM FB3, FB2 SIMILAR)

NOTES:

1. FOR SECTION A-A AND B-B, SEE "DECK POST-TENSIONING - LAYOUT" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
DECK POST-TENSIONING
DETAILS 1

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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rweibel
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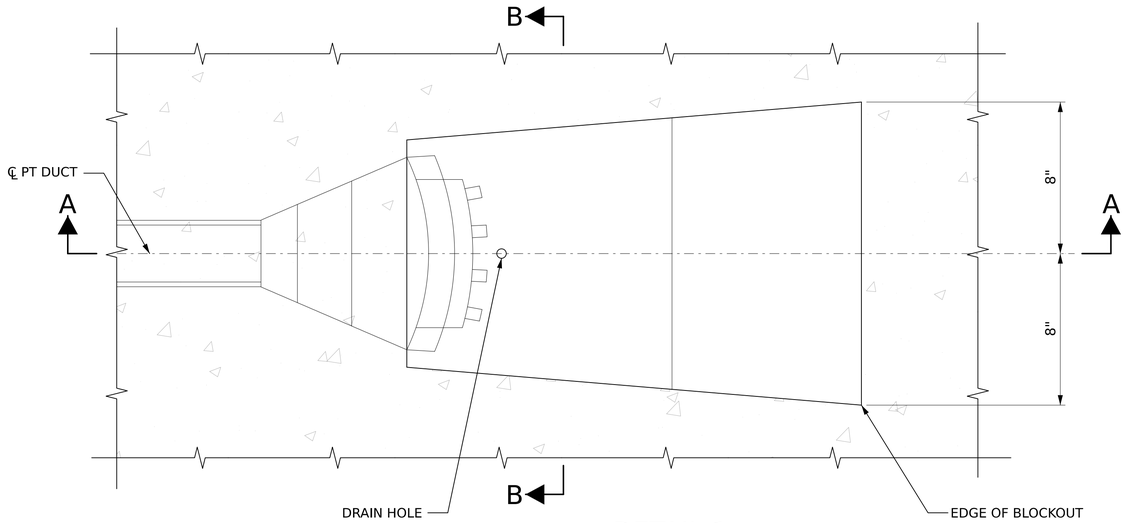
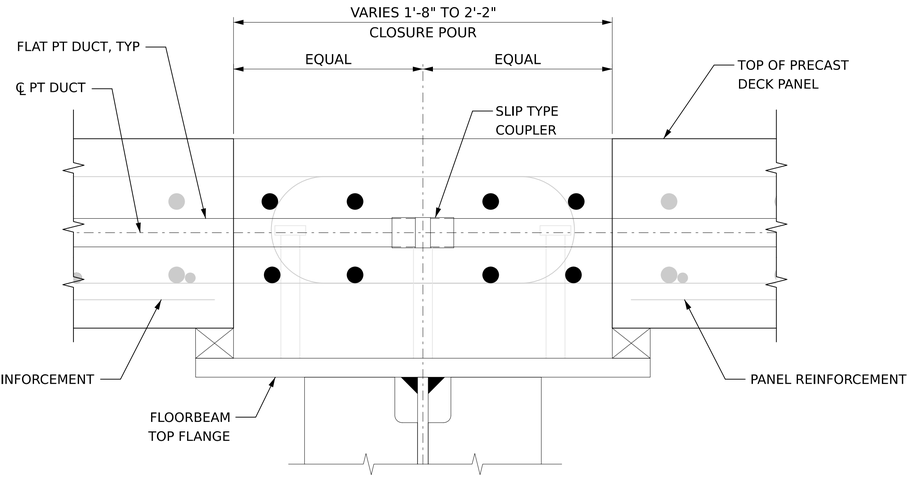
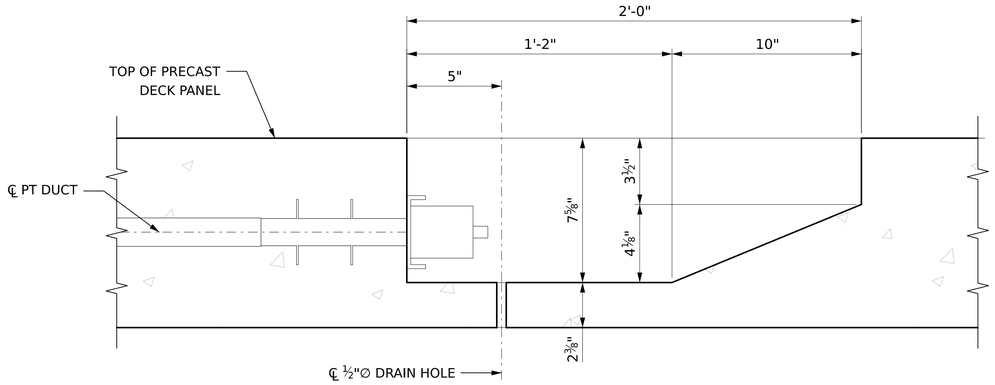
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40699



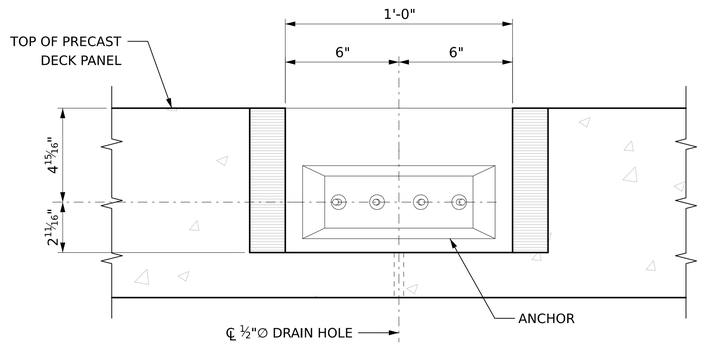
DETAIL 1
SCALE: 3" = 1'-0"



TYPICAL SECTION AT CLOSURE POUR
SCALE: 3" = 1'-0"



SECTION A-A
SCALE: 3" = 1'-0"



SECTION B-B
SCALE: 3" = 1'-0"

NOTES:

1. ALL BLOCKOUT SURFACES TO BE CLEAN, FREE OF LAITANCE AND PRESSURE WASHED TO EXPOSED AGGREGATE.
2. PRIOR TO FILLING THE BLOCKOUT, ALL SURFACES SHALL BE COATED WITH AN APPROVED EPOXY BONDING AGENT.
3. AFTER ALL STRESSING AND GROUTING OPERATIONS ARE COMPLETED, BLOCKOUTS SHALL BE FILLED WITH NON-SHRINK CONCRETE WITH f'c = 8,000 PSI.
4. ALL VERTICAL CONSTRUCTION JOINTS BETWEEN THE DECK PANELS AND BLOCKOUT CONCRETE THAT WILL NOT BE COMPLETELY COVERED BY THE PPC OVERLAY SHALL BE TREATED WITH A LOW VISCOSITY EPOXY OR METHACRYLATE RESIN PENETRATING SEALER FORMULATED FOR REPAIRING CRACKS IN CONCRETE.
5. FOR REINFORCEMENT AROUND THE PT BLOCKOUT, SEE "TYPICAL REINFORCEMENT DETAILS 1".

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A	SIBT	04/04/2025	60% SUBMITTAL

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

DECK POST-TENSIONING

DETAILS 2

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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3/14/2025

2" 1" 0 SHEET REFERENCE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40705

PRELIMINARY
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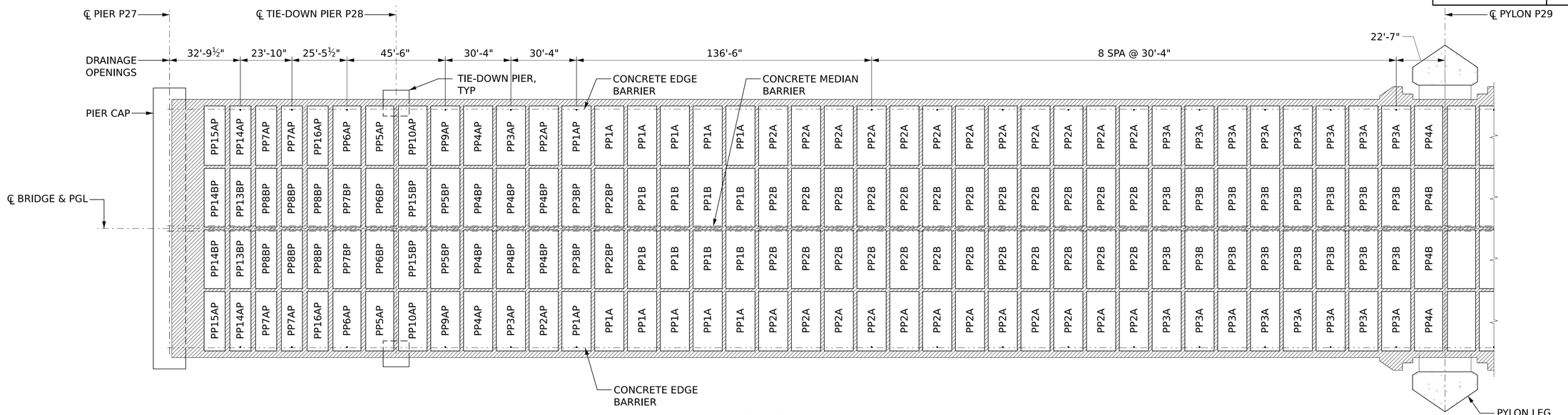
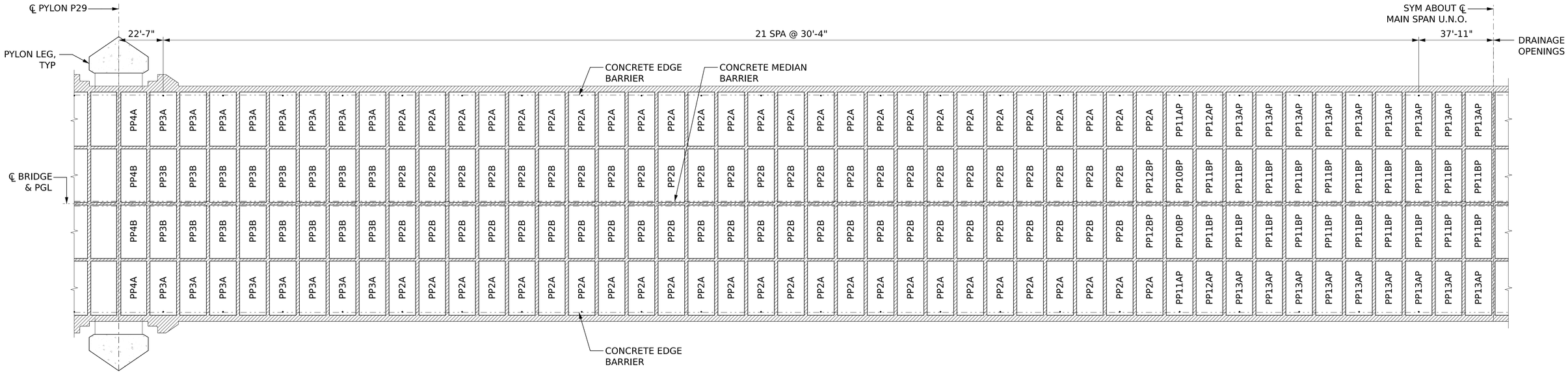


BACK SPAN - PLAN VIEW

SCALE: NTS



MAIN SPAN - PLAN VIEW

SCALE: NTS

LEGEND:

- PRECAST DECK PANEL
- CAST-IN-PLACE CONCRETE

PRECAST PANEL DESIGNATION:

PP 1 A P
- P — PRECAST PANEL
- PP — PRECAST PANEL
- 1 — TYPE NUMBER
- A — VARIATION
- P — POST- TENSIONED

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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
LAYOUT 1

MRB-S04-BR-40705.dgn
rweibel
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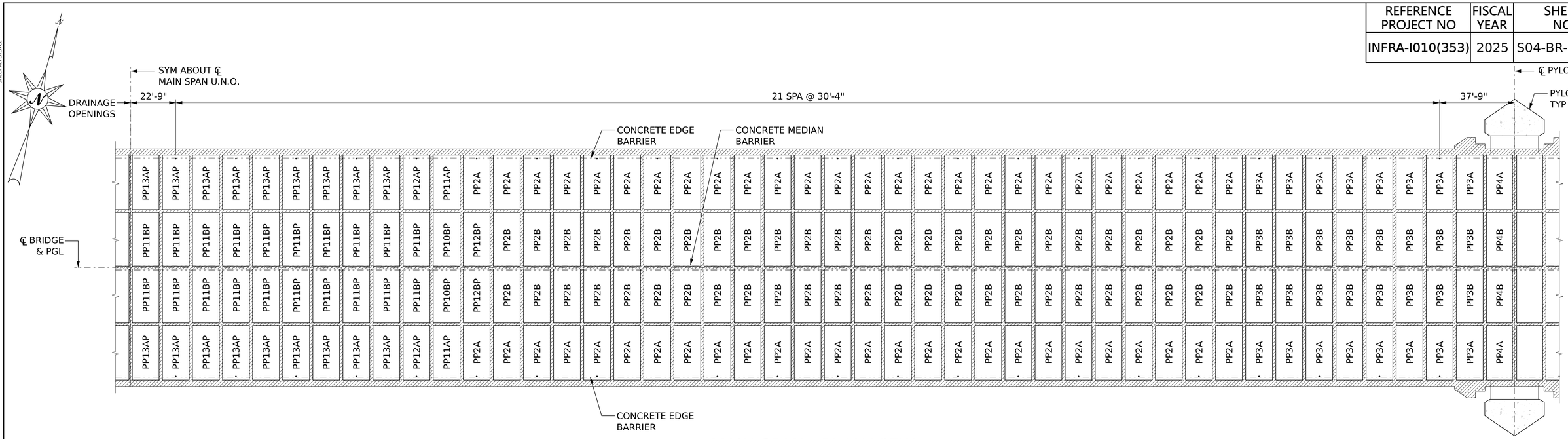
4/1/2025

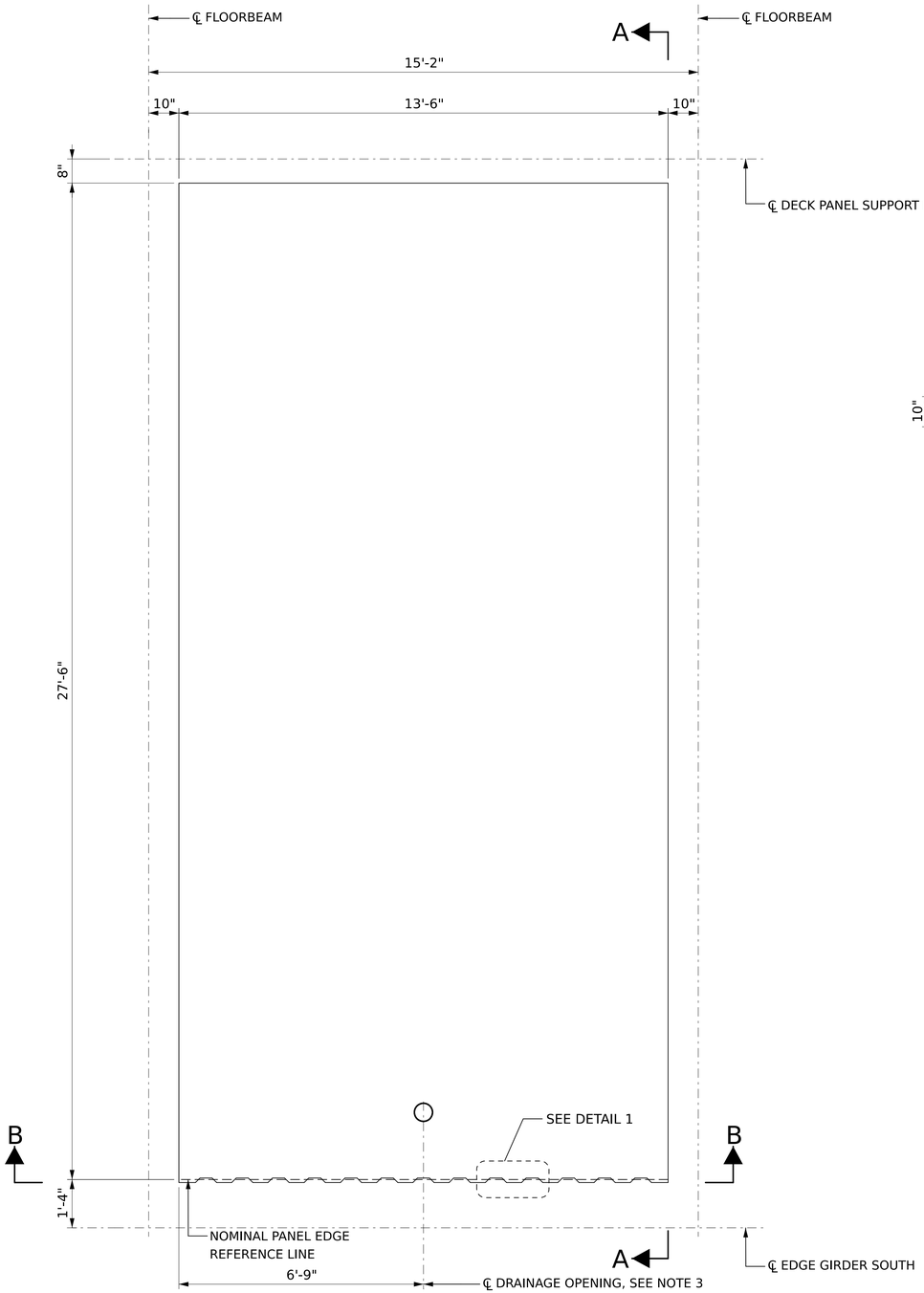
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40706

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"


SYM ABOUT ℄ MAIN SPAN U.N.O.
DRAINAGE OPENINGS
22'-9"
21 SPA @ 30'-4"
37'-9"
℄ PYLON P30
PYLON LEG, TYP
CONCRETE EDGE BARRIER
CONCRETE MEDIAN BARRIER
CONCRETE EDGE BARRIER
℄ BRIDGE & PGL
PP13AP PP13AP PP13AP PP13AP PP13AP PP13AP PP13AP PP13AP PP13AP PP12AP PP11AP PP2A PP2A PP2A

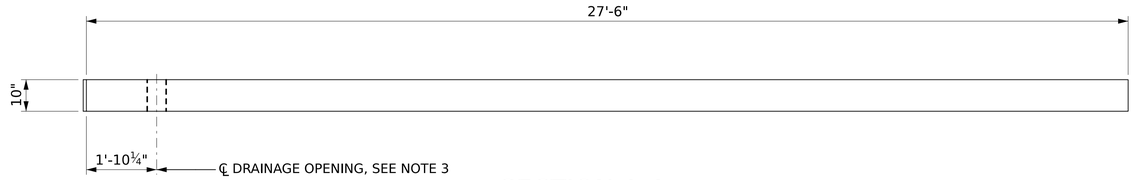
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40711



PLAN - PP1A, PP1AP, PP2A, PP3A, PP2AP, PP3AP, PP4AP, PP9AP, PP11AP, PP12AP & PP13AP

SCALE: 1/2" = 1'-0"

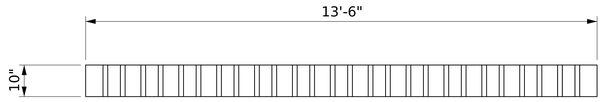
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

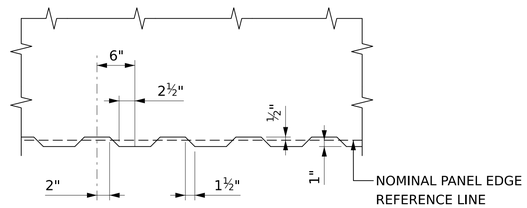
SCALE: 1/2" = 1'-0"

(LOOKING DOWNSTATION)



SECTION B-B

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.
3. FOR DRAIN LOCATIONS, SEE "PRECAST DECK PANEL LAYOUT" SHEET.

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

DETAILS 1 - DIMENSIONS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40712

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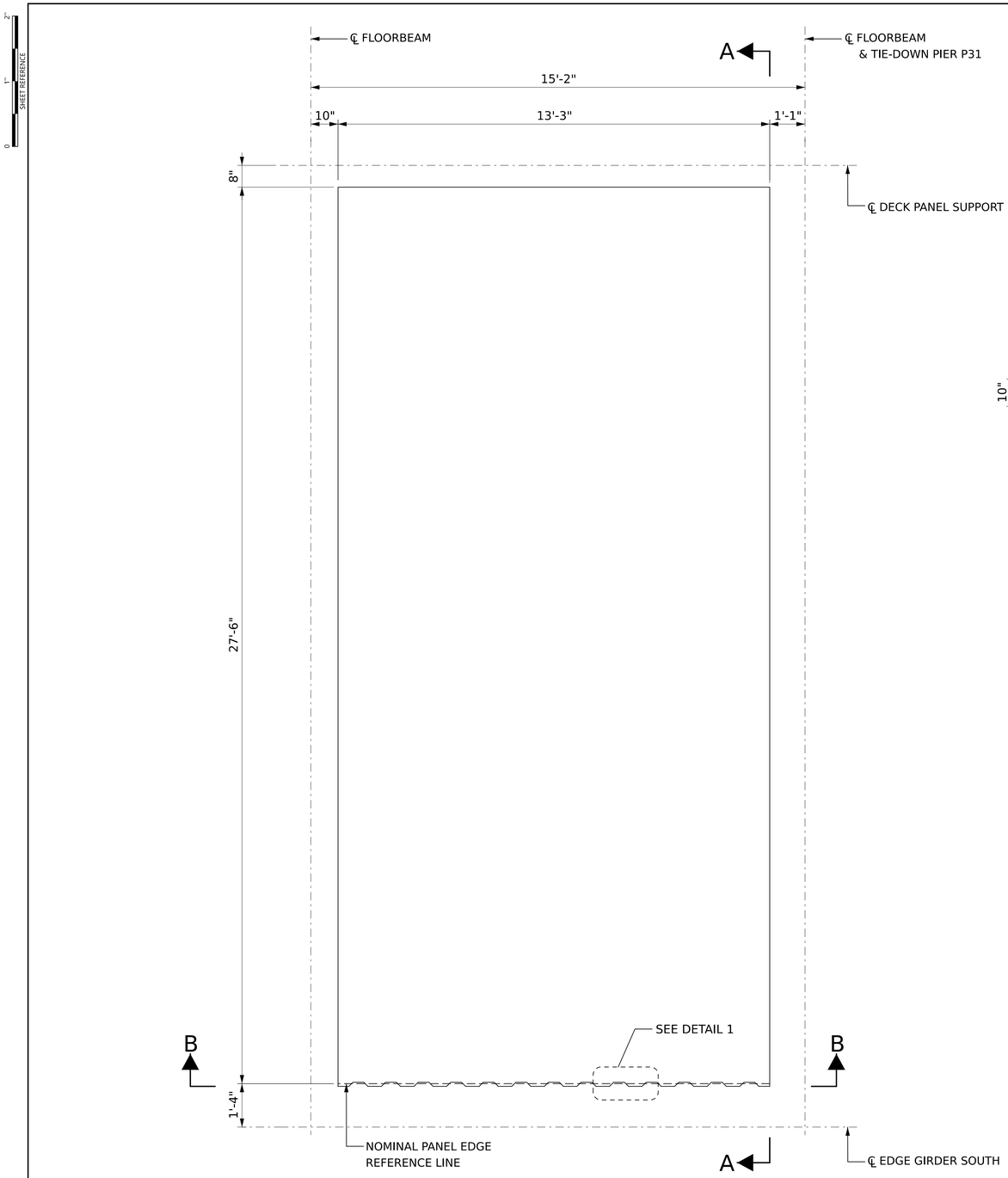
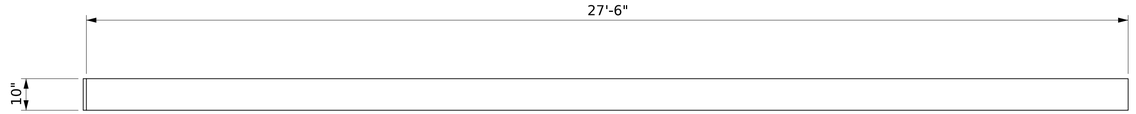


PLAN - PP10AP

SCALE: 1/2" = 1'-0"

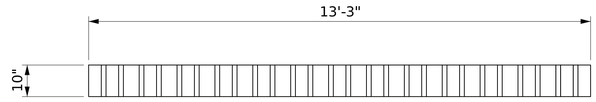
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

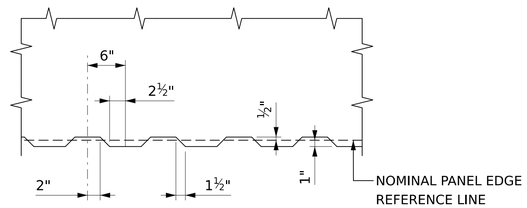
SCALE: 1/2" = 1'-0"

(LOOKING DOWNSTATION)



SECTION B-B

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEETS.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PRECAST DECK PANEL
DETAILS 2 - DIMENSIONS

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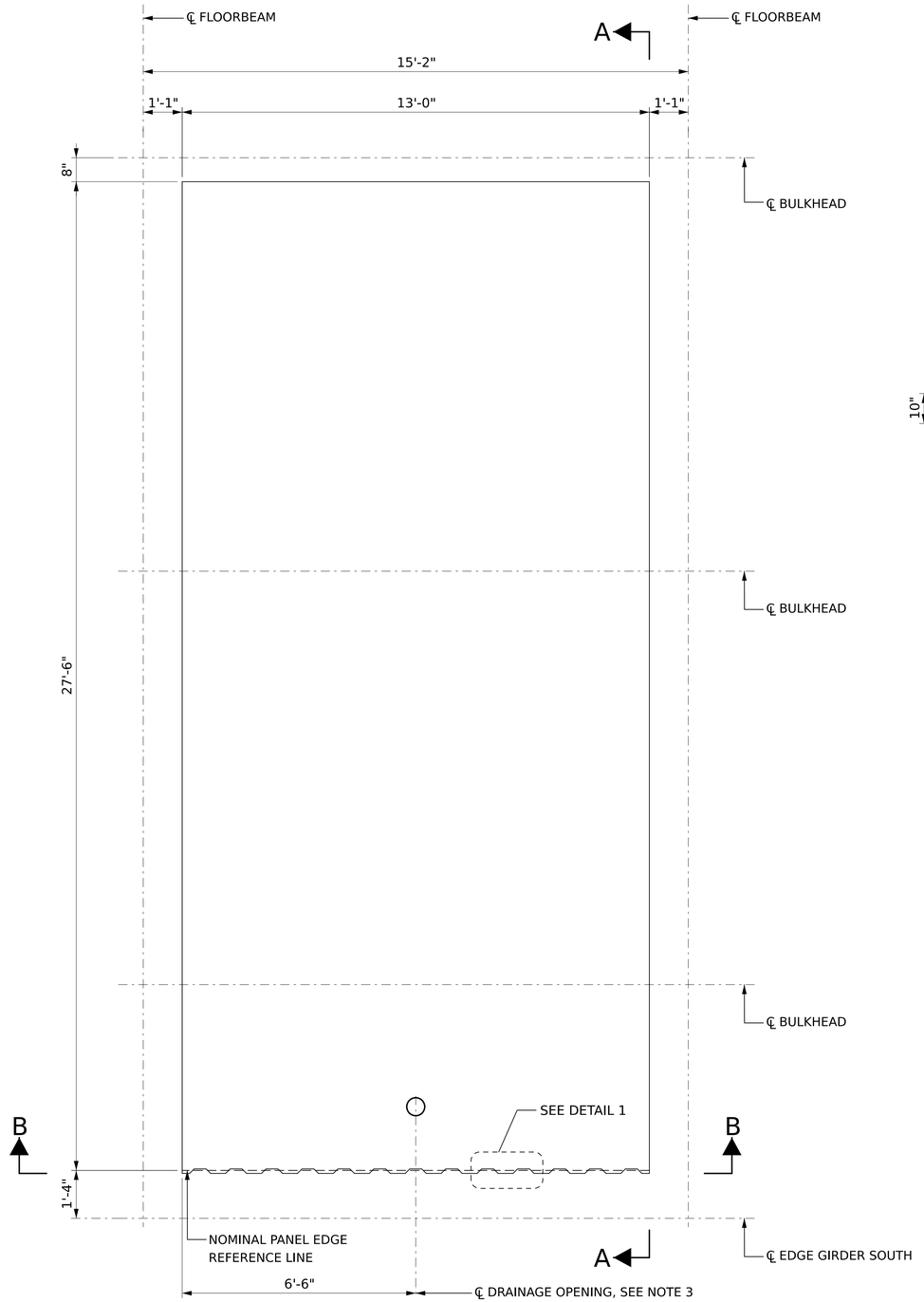
3/14/2025

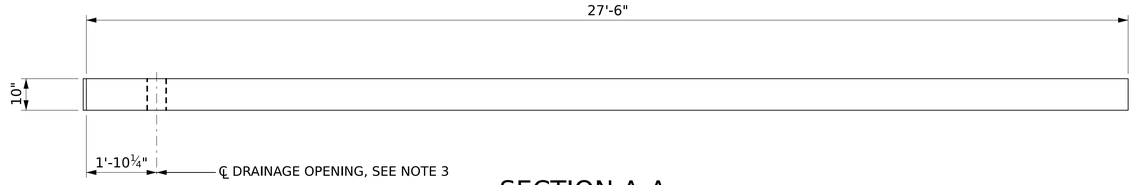
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40713



PLAN - PP5AP, PP6AP

SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



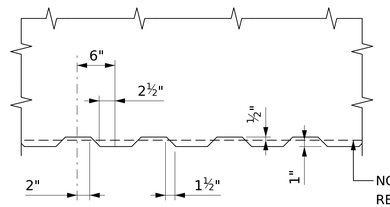
SECTION A-A

SCALE: 1/2" = 1'-0"

(LOOKING DOWNSTATION)

SECTION B-B

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.
3. FOR DRAIN LOCATIONS, SEE "PRECAST DECK PANEL LAYOUT" SHEET.

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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

DETAILS 3 - DIMENSIONS

PRELIMINARY

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40714

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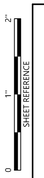
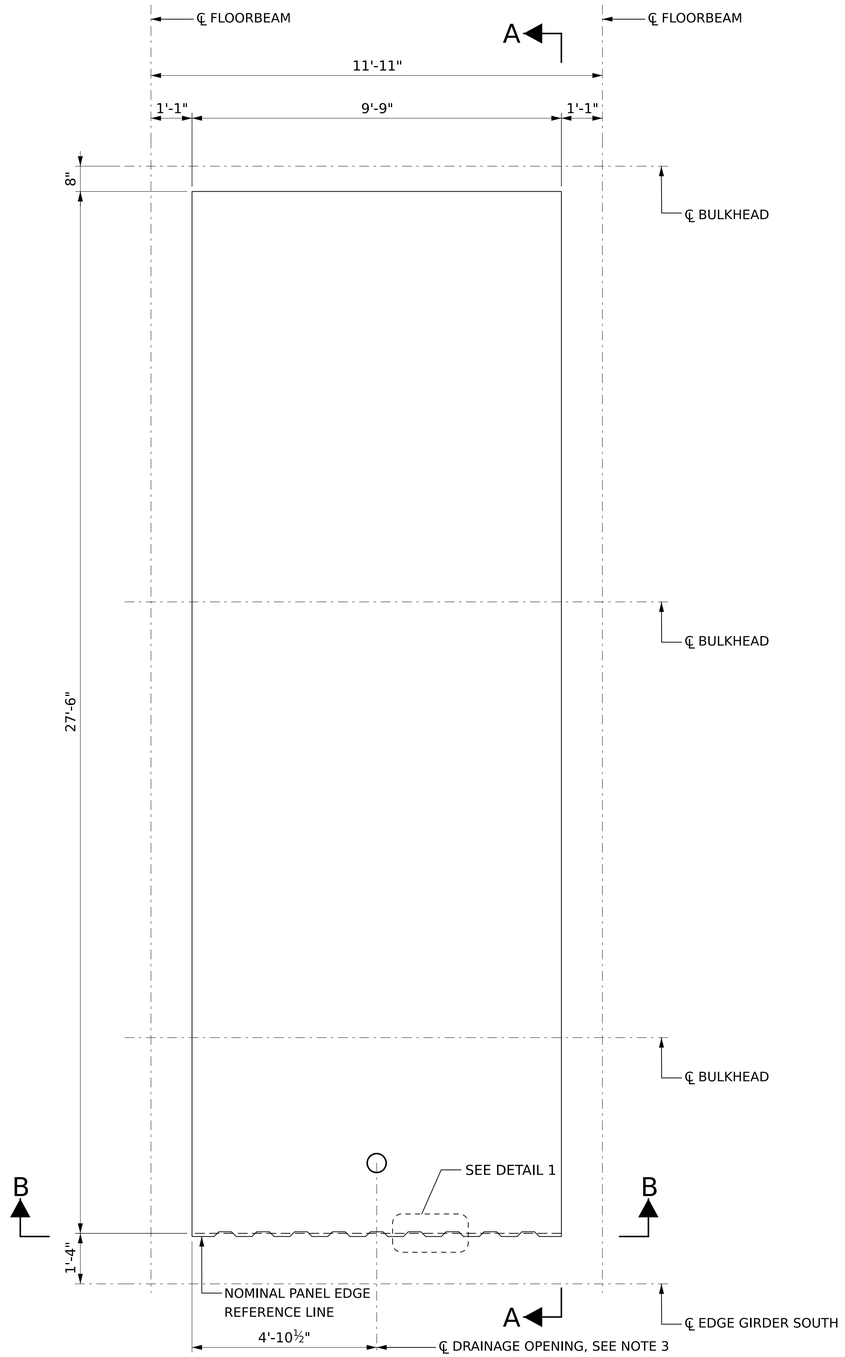
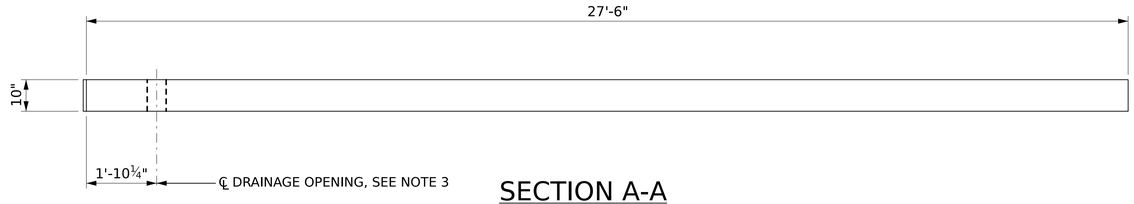




PLAN - PP7AP, PP14AP, PP15AP & PP16AP

SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



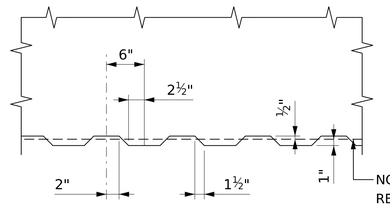
SECTION A-A

SCALE: 1/2" = 1'-0"

(LOOKING DOWNSTATION)

SECTION B-B

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.
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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

DETAILS 4 - DIMENSIONS

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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40715

PRELIMINARY
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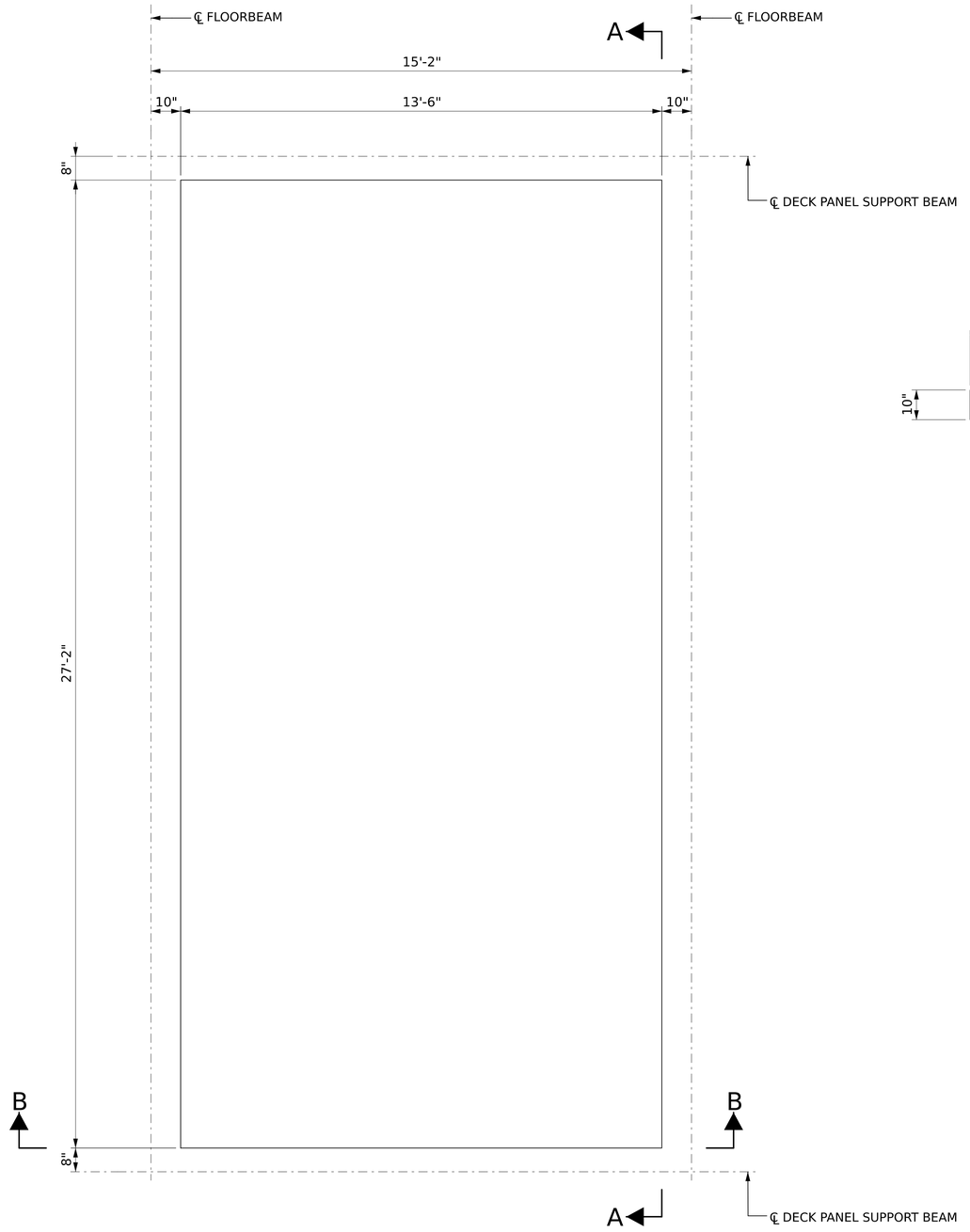
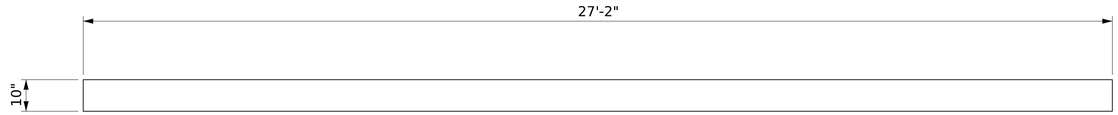


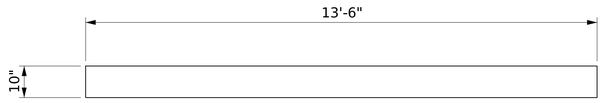
PLAN - PP1B, PP2B, PP3B, PP2BP, PP3BP, PP4BP, PP5BP, PP10BP, PP11BP & PP12BP

SCALE: 1/2" = 1'-0"



SECTION A-A

SCALE: 1/2" = 1'-0"



SECTION B-B

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
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PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
DETAILS 5 - DIMENSIONS

MRB-S04-BR-40715.dgn rweibel 12:06:26 PM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40716

PRELIMINARY
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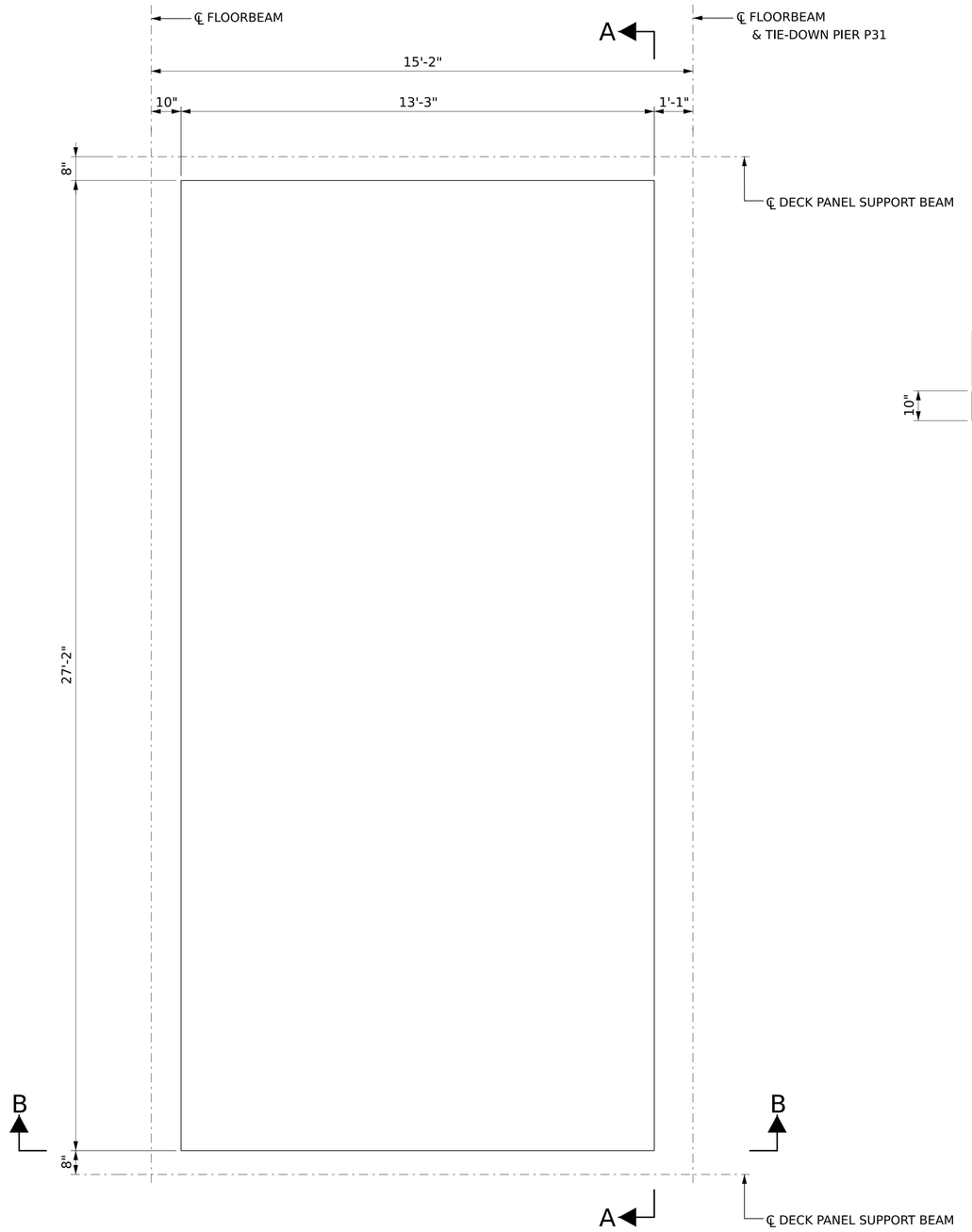
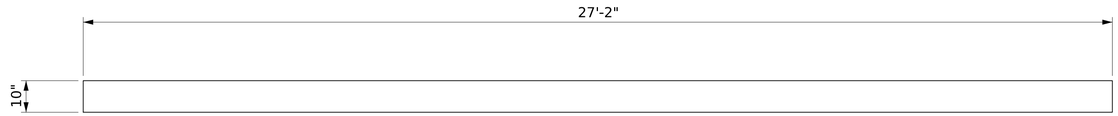


PLAN - PP15BP

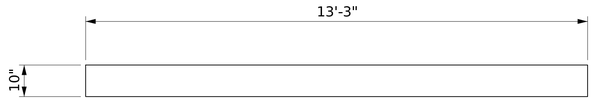
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

SCALE: 1/2" = 1'-0"



SECTION B-B

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEETS.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

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BIN(S)

COUNTY(S)
MOBILE

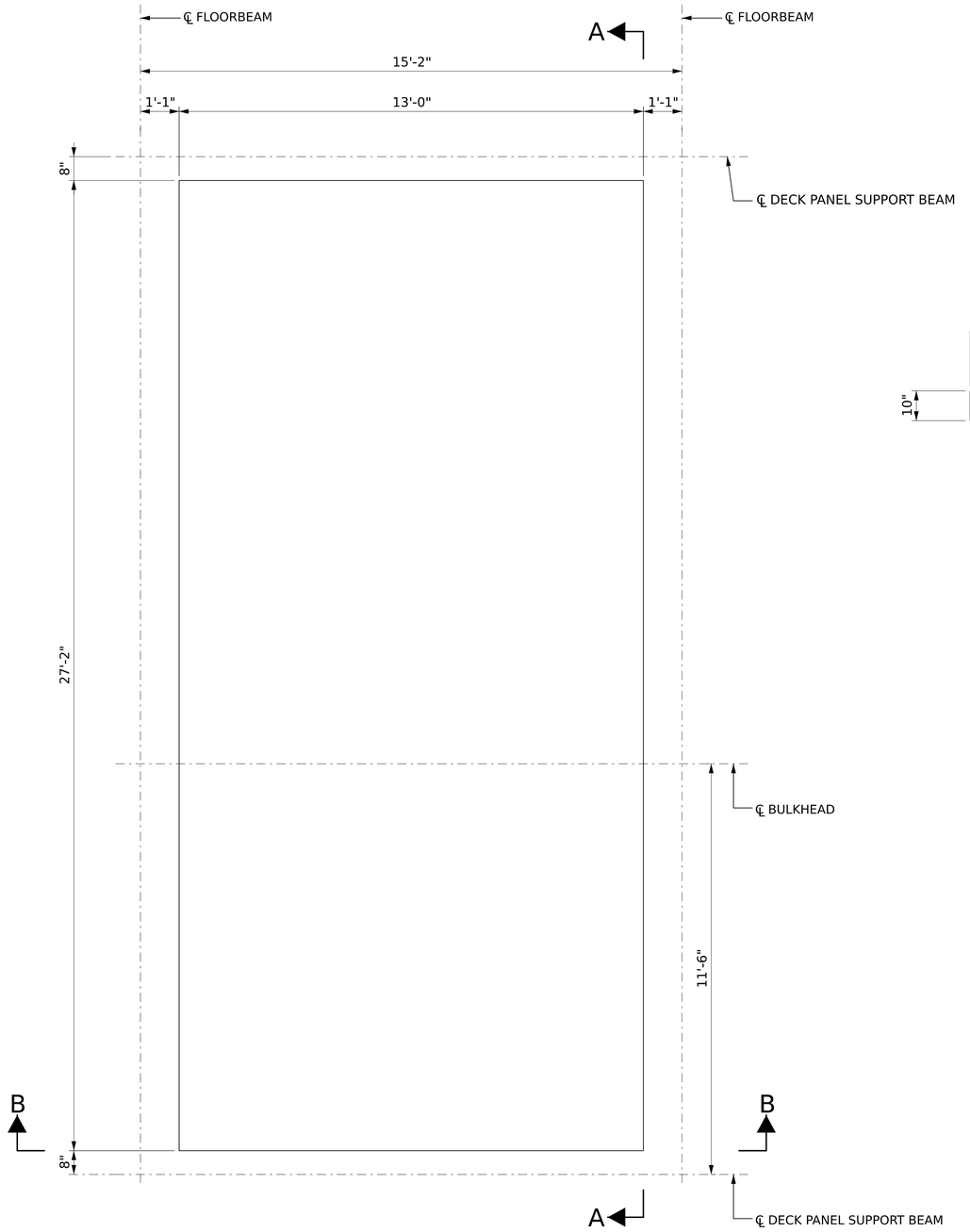
DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

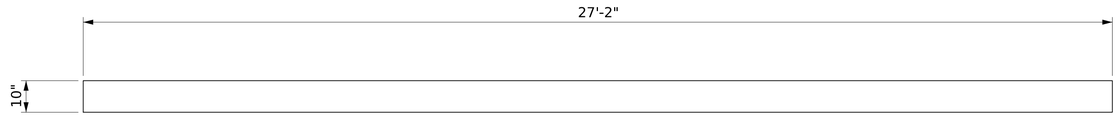
SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
DETAILS 6 - DIMENSIONS

MRB-S04-BR-40716.dgn rweibel 12:06:34 PM 3/14/2025

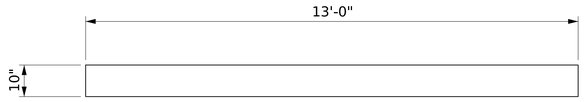
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40717



PLAN - PP6BP & PP7BP
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

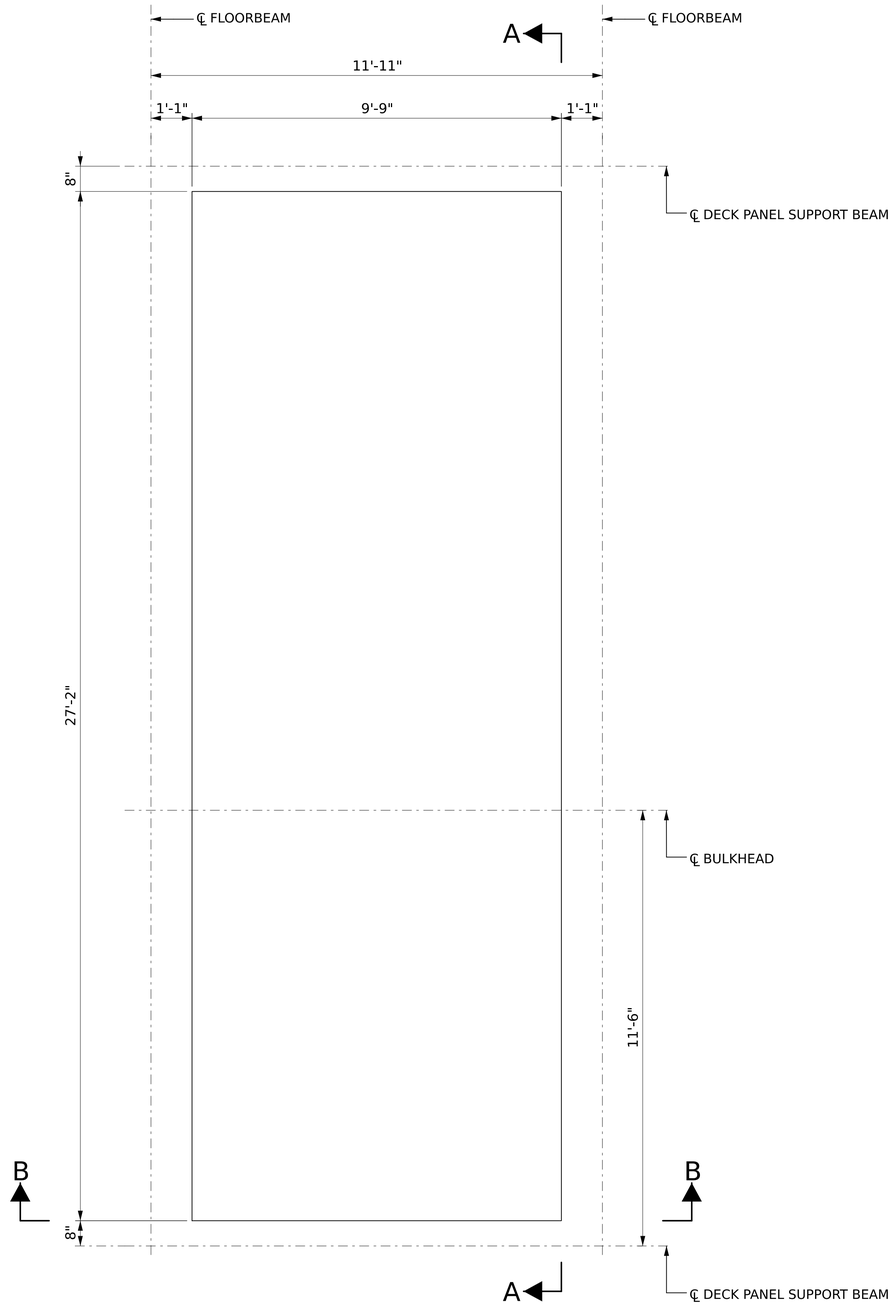
DETAILS 7 - DIMENSIONS

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

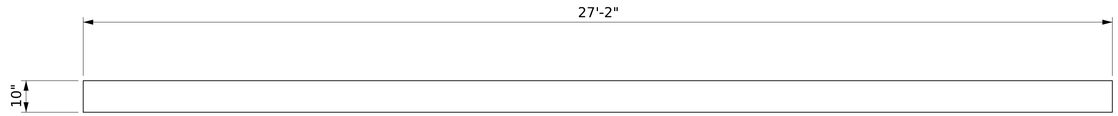
MRB-S04-BR-40717.dgn rweibel 12:06:47 PM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40718

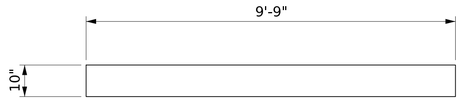
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



PLAN - PP8BP, PP13BP & PP14BP
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEET.
2. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING LAYOUT" AND "DECK POST-TENSIONING DETAILS" SHEETS.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
DETAILS 8 - DIMENSIONS

MRB-S04-BR-40718.dgn
rweibel
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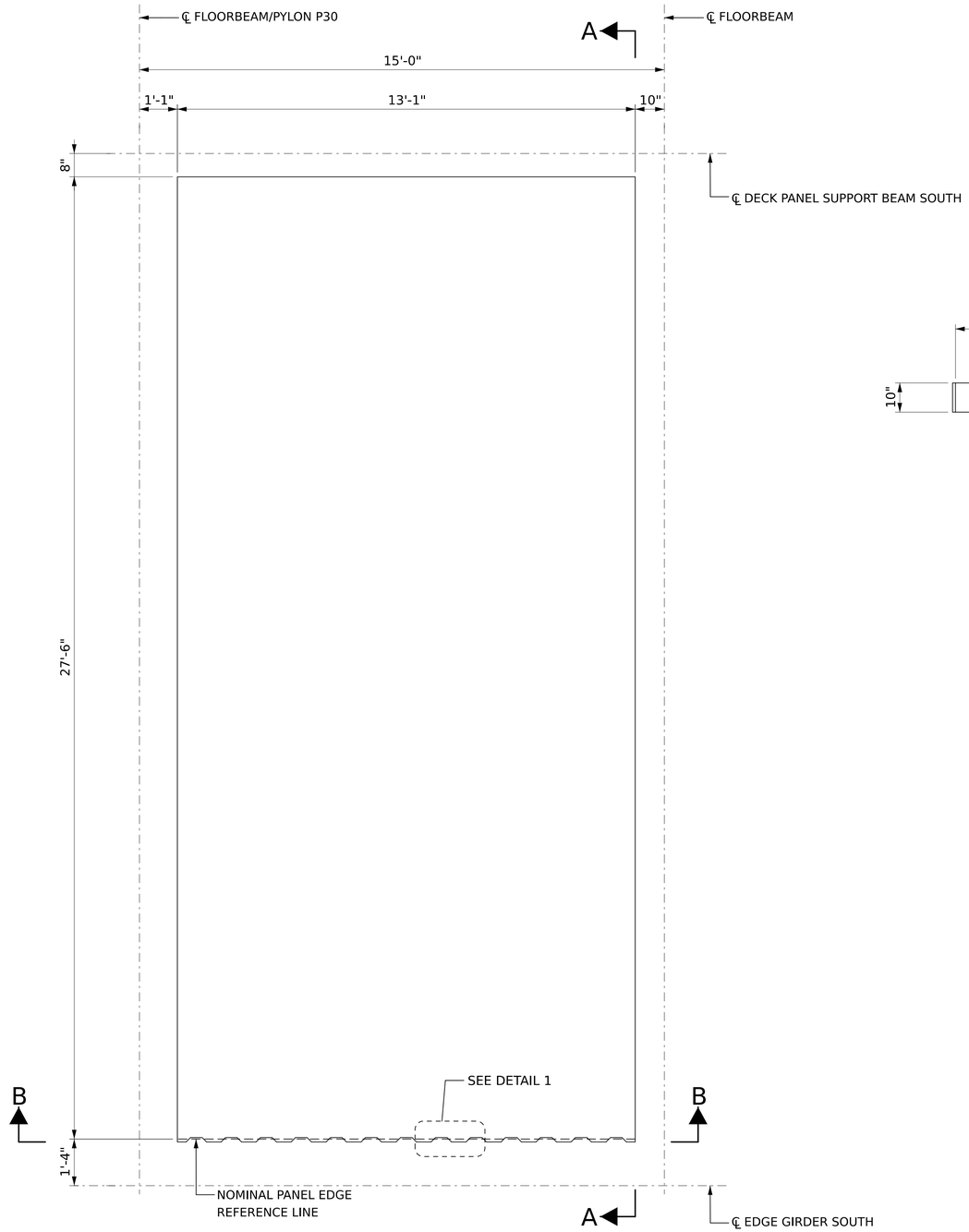
3/14/2025

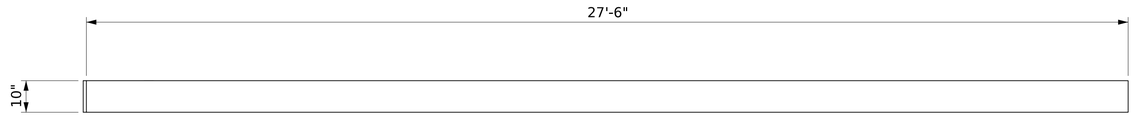
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40720



PLAN - PP4A

SCALE: 1/2" = 1'-0"

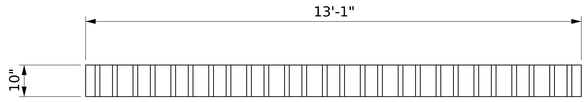
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

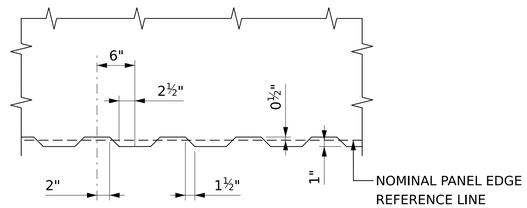
SCALE: 1/2" = 1'-0"

(LOOKING DOWNSTATION)



SECTION B-B

SCALE: 1/2" = 1'-0"



DETAIL 1

SCALE: 1" = 1'-0"

NOTES:

1. FOR PRECAST DECK PANEL LAYOUT, SEE "PRECAST DECK PANEL LAYOUT" SHEETS.

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PLAN SUBMITTAL

60%

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COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

DETAILS 10 - DIMENSIONS

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40720.dgn

rweibel

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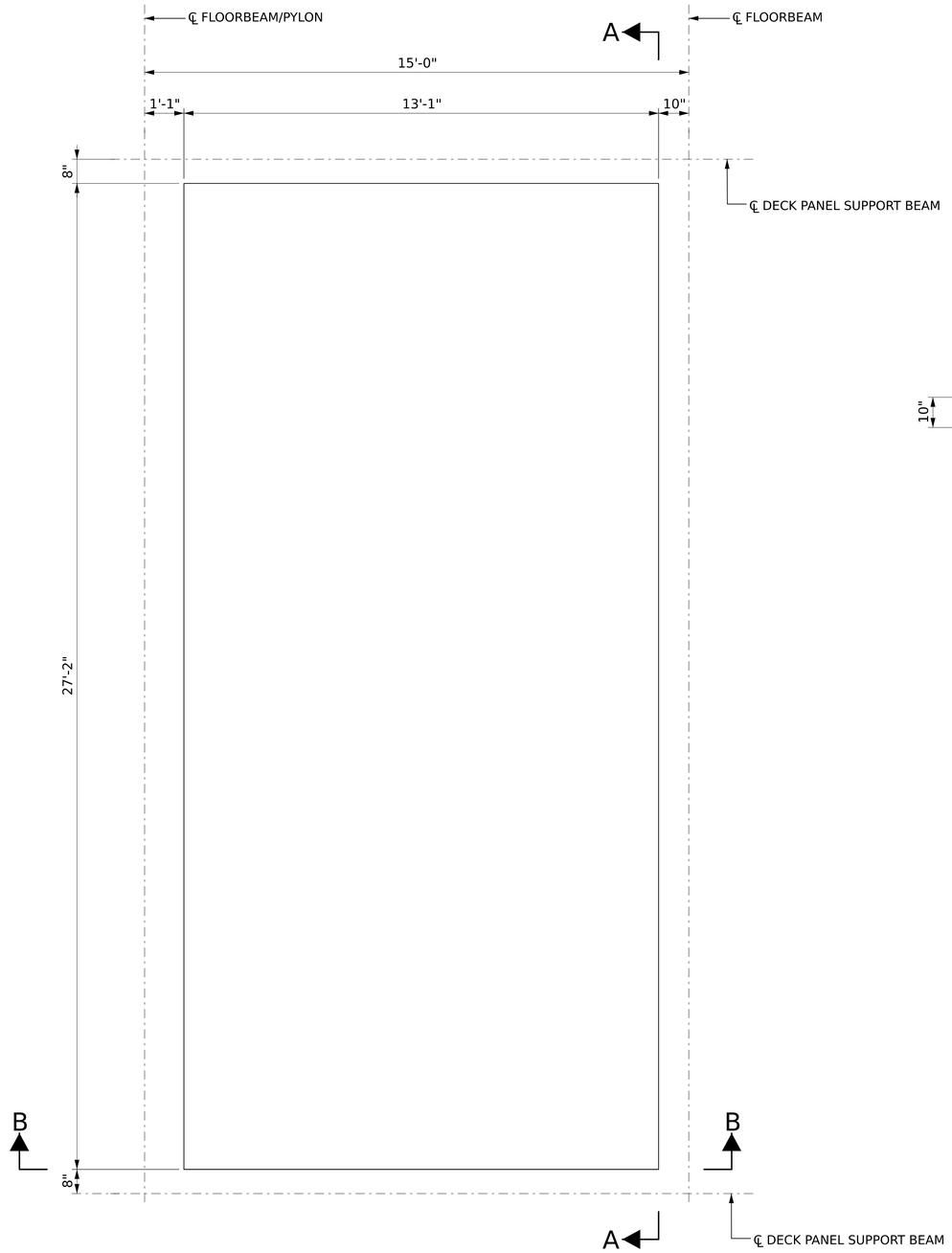
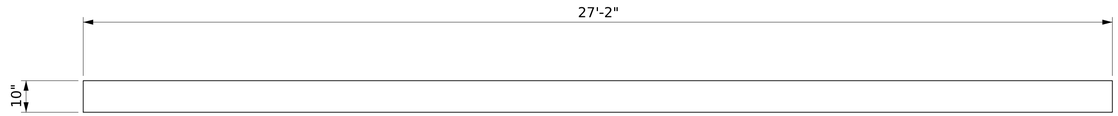
3/14/2025

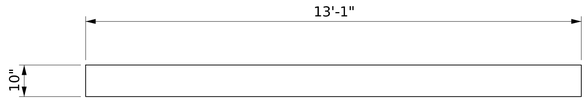
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40721



PLAN - PP4B
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

PRELIMINARY
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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

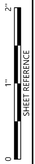
BRIDGE SHEET NO. OF

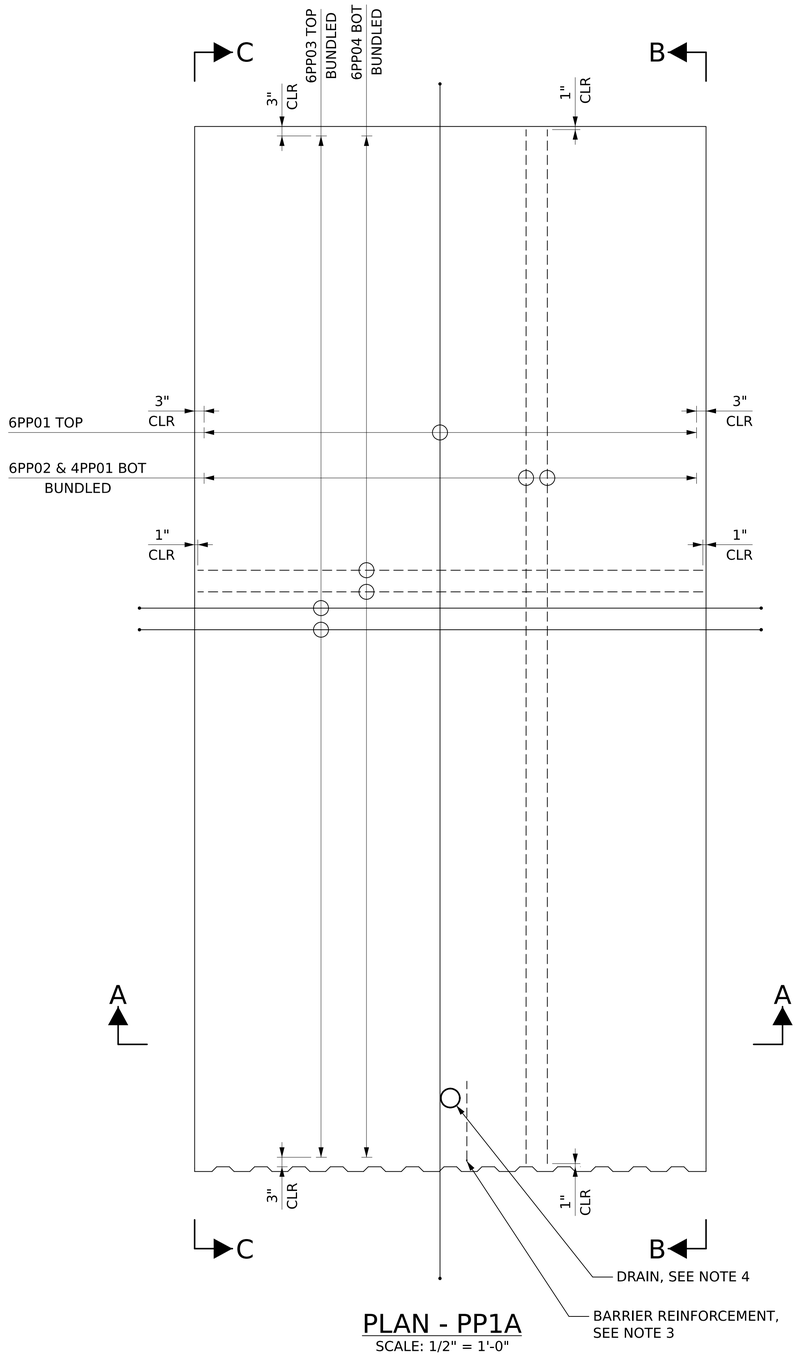
SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
DETAILS 11 - DIMENSIONS

MRB-S04-BR-40721.dgn
rweibel
12:07:08 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40741

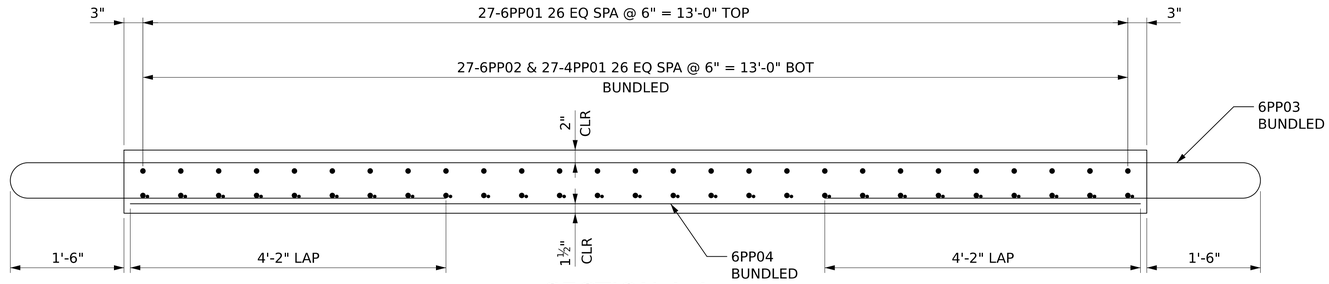
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



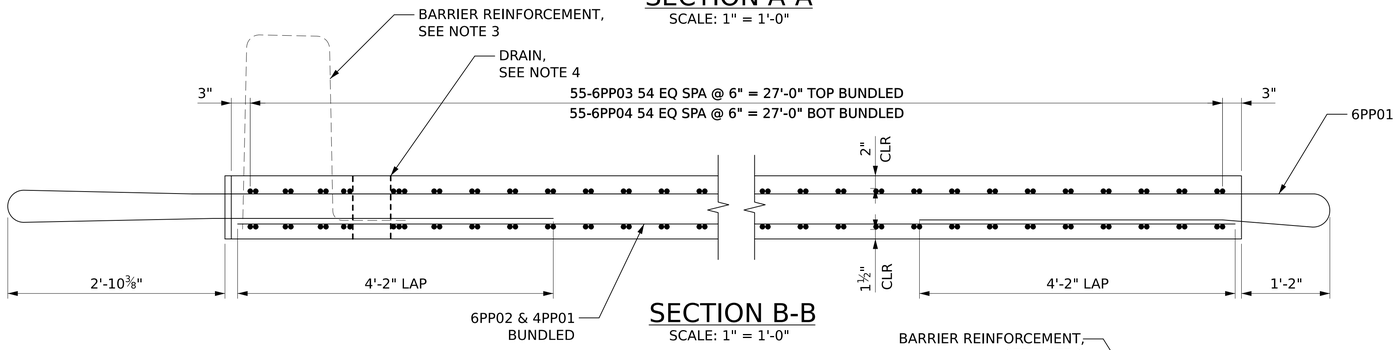


PLAN - PP1A
SCALE: 1/2" = 1'-0"

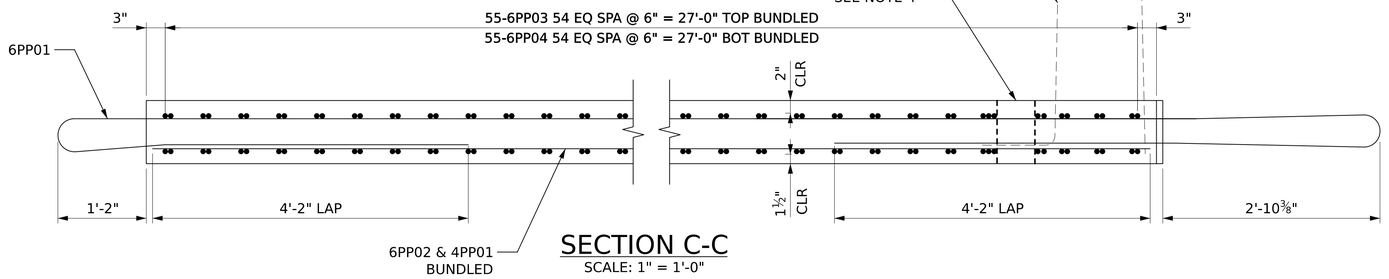
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 1 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).
3. FOR BARRIER DETAILS AND REINFORCEMENT, SEE "CONCRETE BARRIER - DETAILS" SHEET (UNDER DEVELOPMENT).
4. FOR DRAIN SCUPPER DETAILS, SEE "DRAINAGE SCUPPER DETAILS" SHEET.
5. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING DETAILS" AND "TYPICAL REINFORCEMENT DETAILS 1" SHEETS.

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60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PRECAST DECK PANEL
TYPE PP1A - REINFORCEMENT

MRB-S04-BR-40741.dgn
rweibel
12:07:15 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40742

PRELIMINARY
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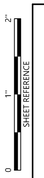
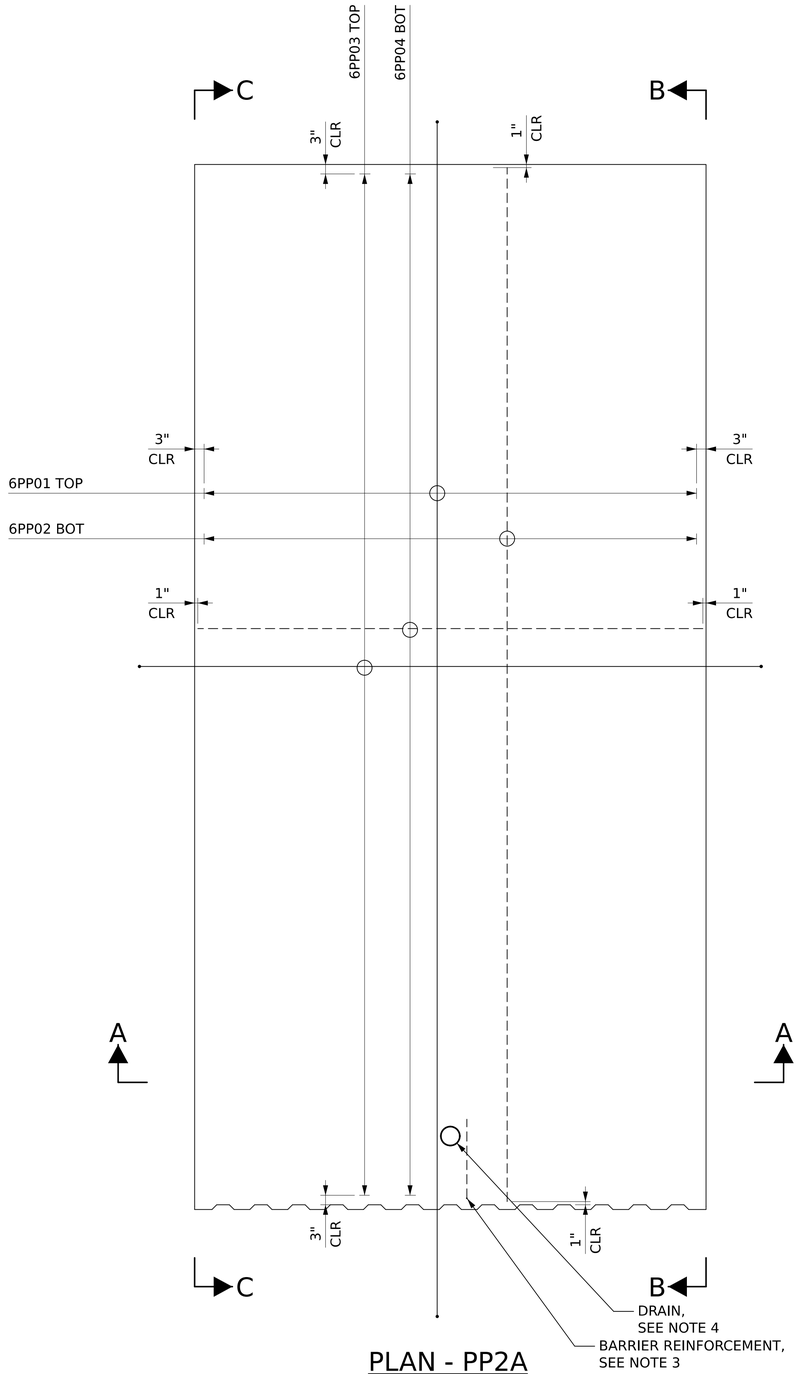
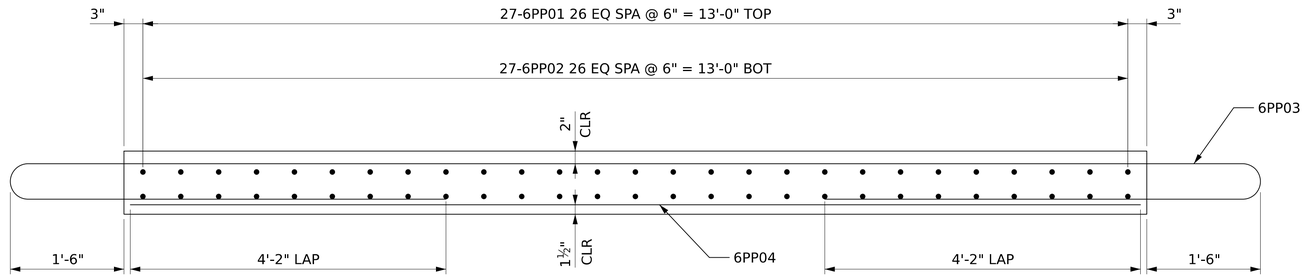


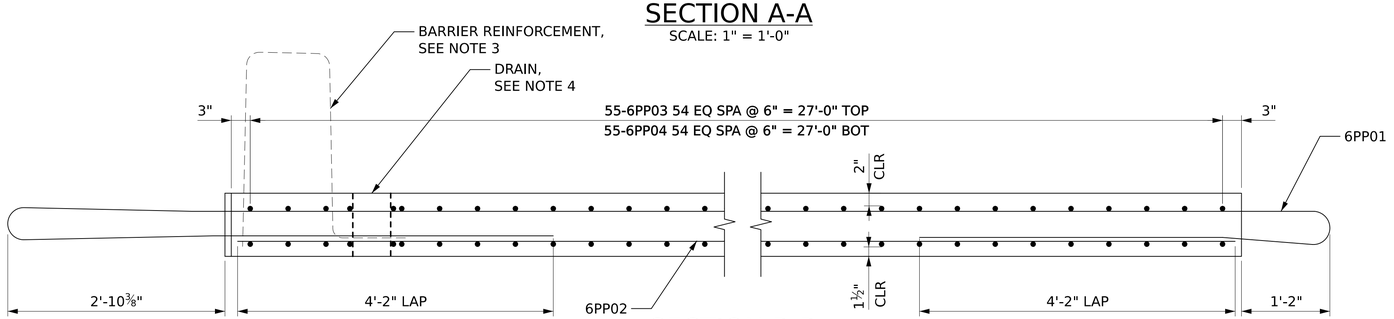


PLAN - PP2A
SCALE: 1/2" = 1'-0"

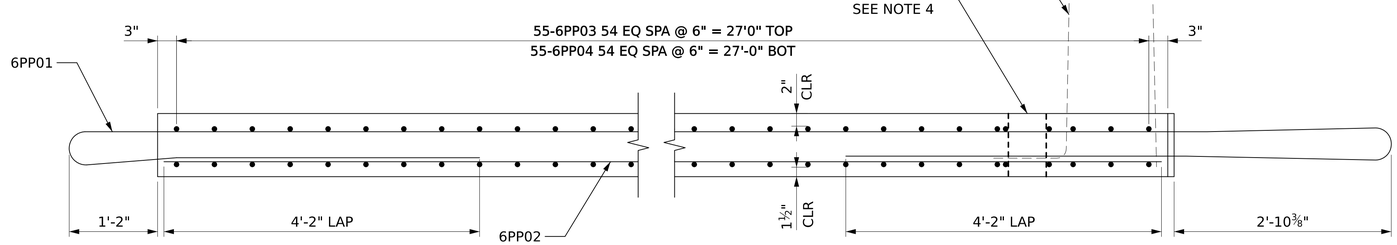
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES SEE "PRECAST DECK PANEL - TYPE PP1A - REINFORCEMENT" SHEET.

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

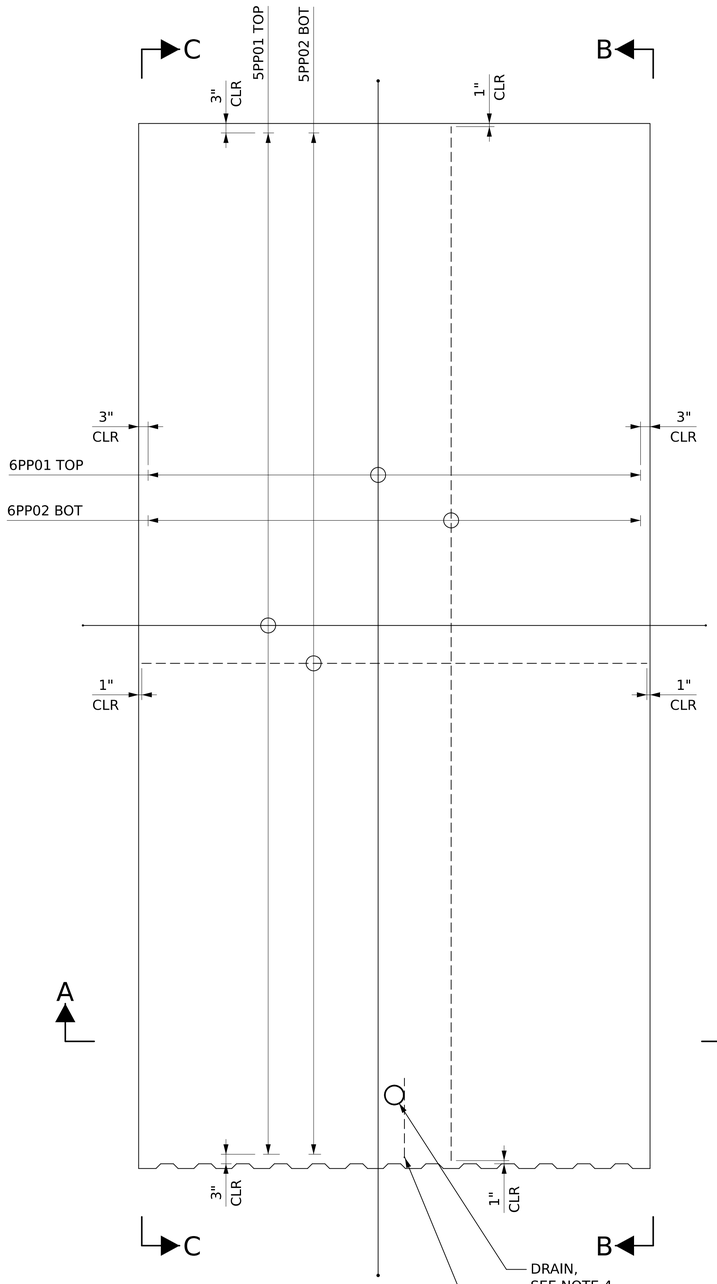
DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
TYPE PP2A - REINFORCEMENT

MRB-S04-BR-40742.dgn
rweibel
12:07:23 PM
3/14/2025

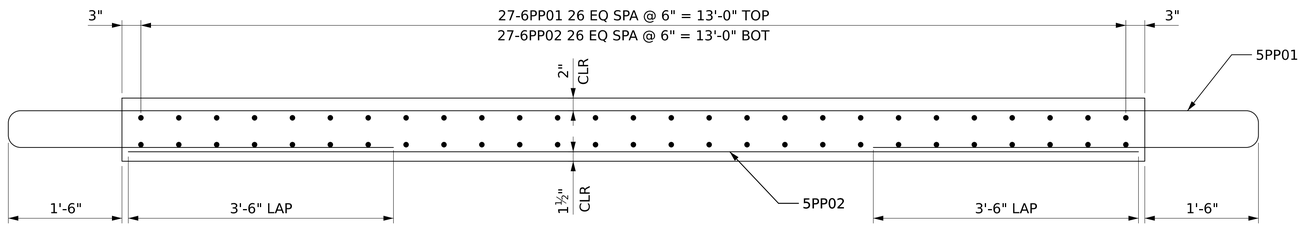
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40743



PLAN - PP3A

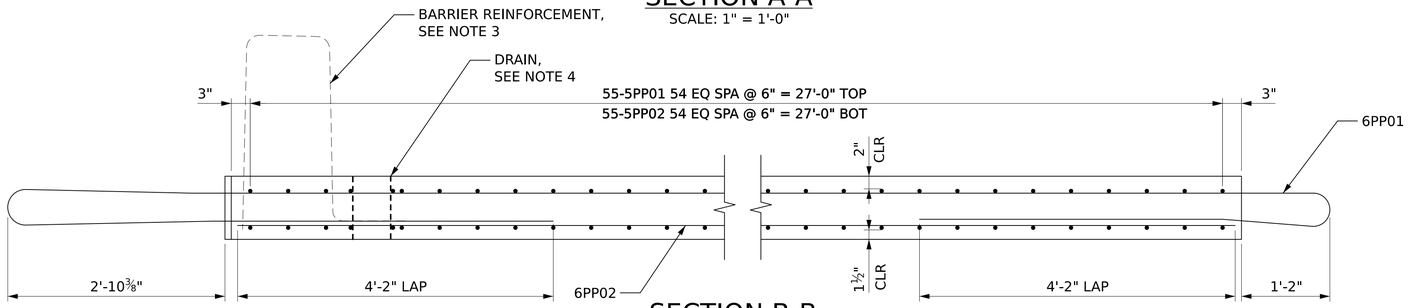
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



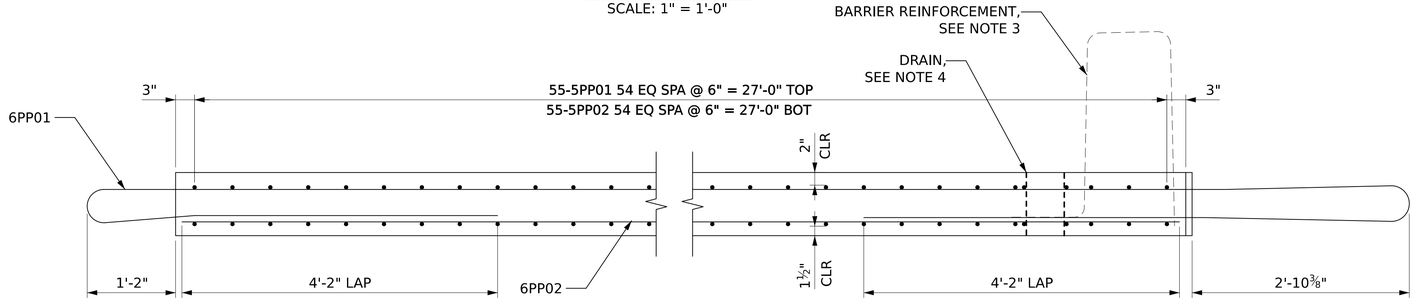
SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"



SECTION C-C

SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES SEE "PRECAST DECK PANEL - TYPE PP1A - REINFORCEMENT" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

TYPE PP3A - REINFORCEMENT

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40743.dgn

rweibel

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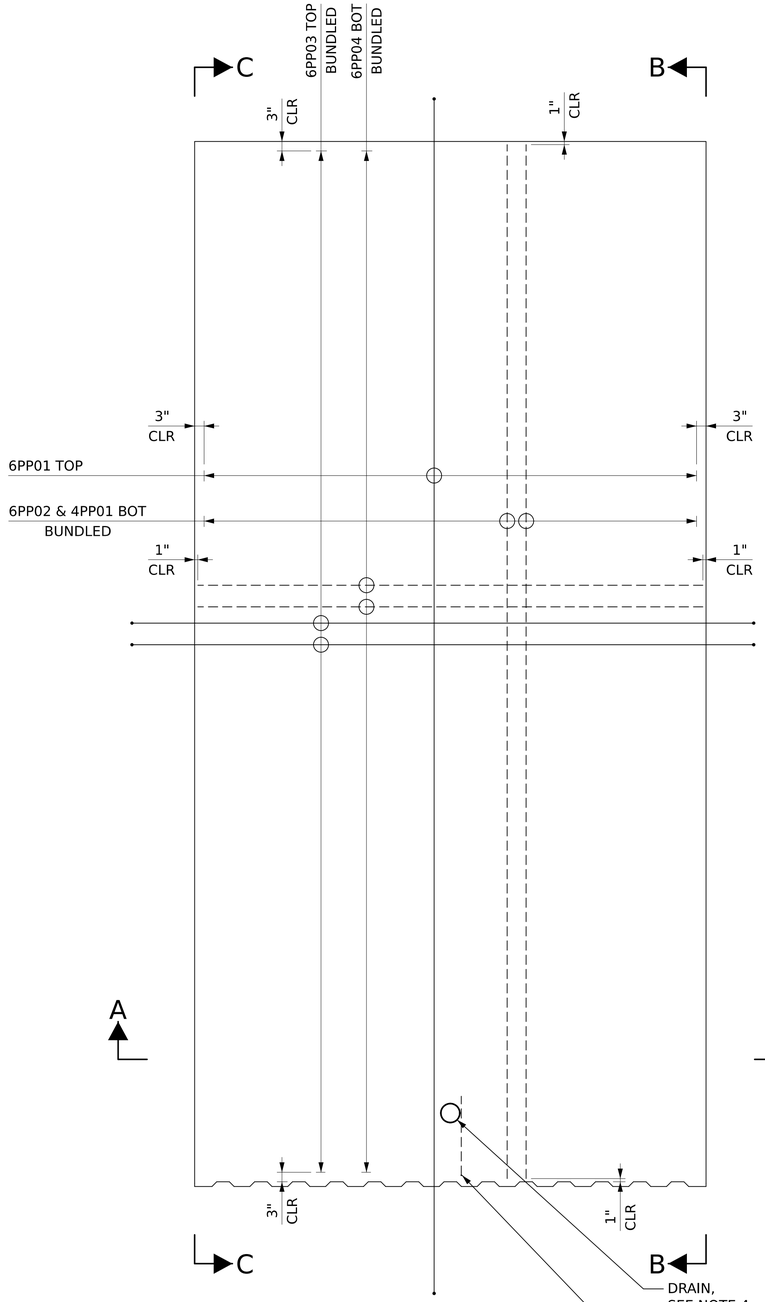
3/14/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40744

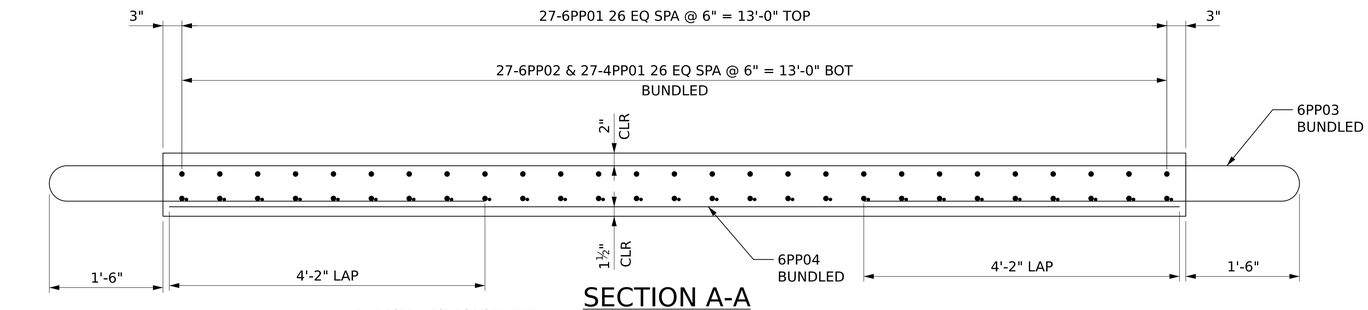
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



PLAN - PP4AP & PP9AP

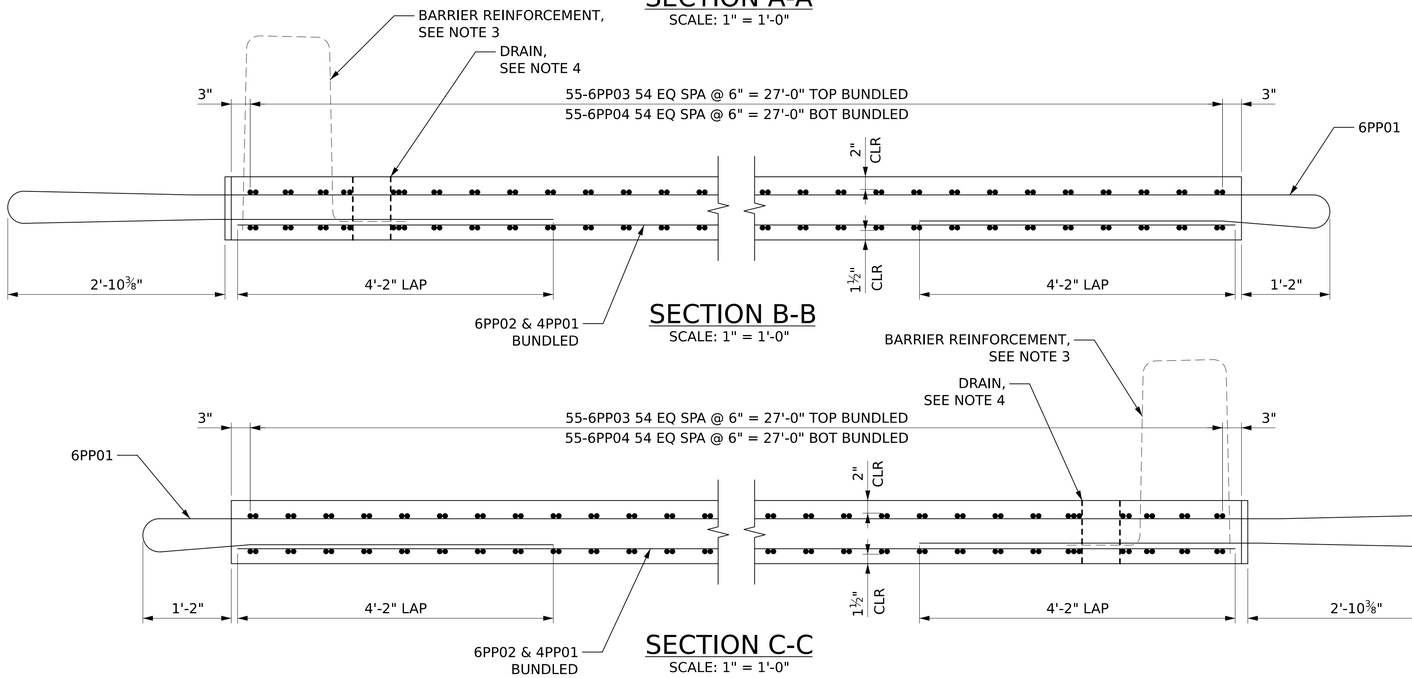
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"

SECTION C-C

SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES SEE "PRECAST DECK PANEL - TYPE PP1A - REINFORCEMENT" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

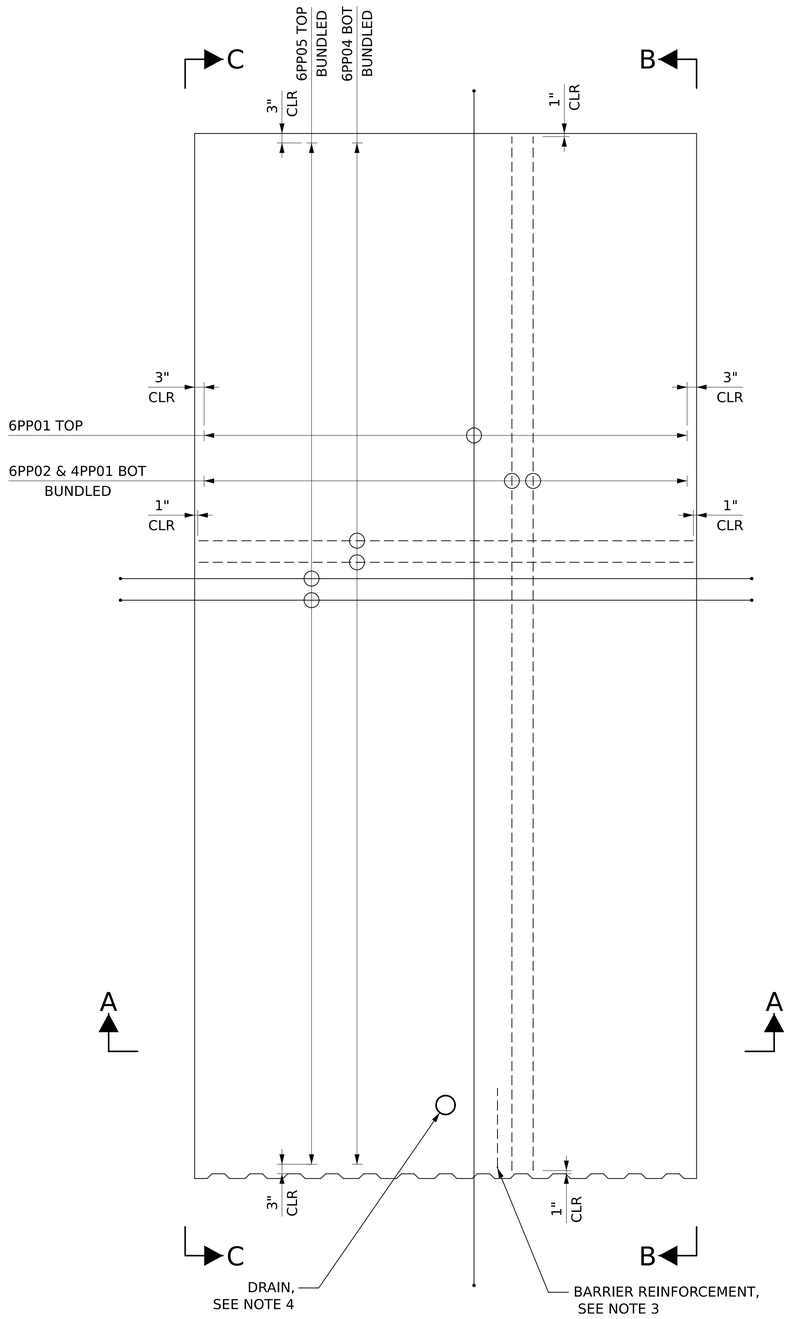
BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PRECAST DECK PANEL
TYPE PP4AP REINFORCEMENT

MRB-S04-BR-40744.dgn
rweibel
12:07:40 PM
3/14/2025

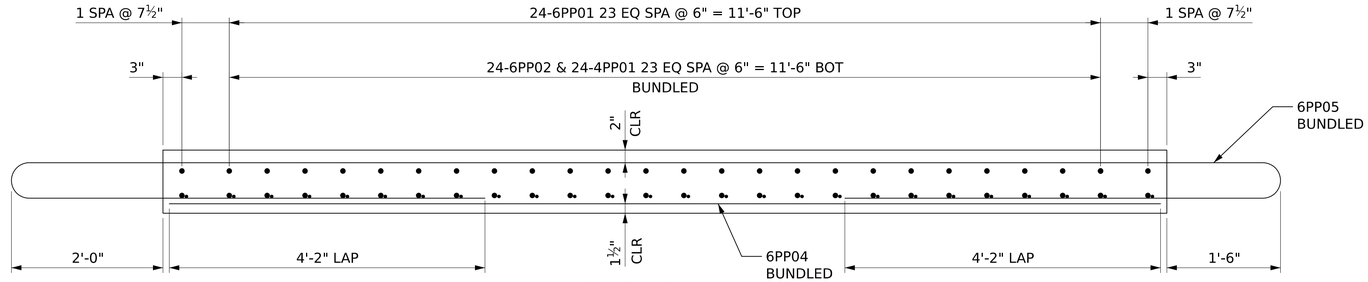
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40745



PLAN - PP5AP

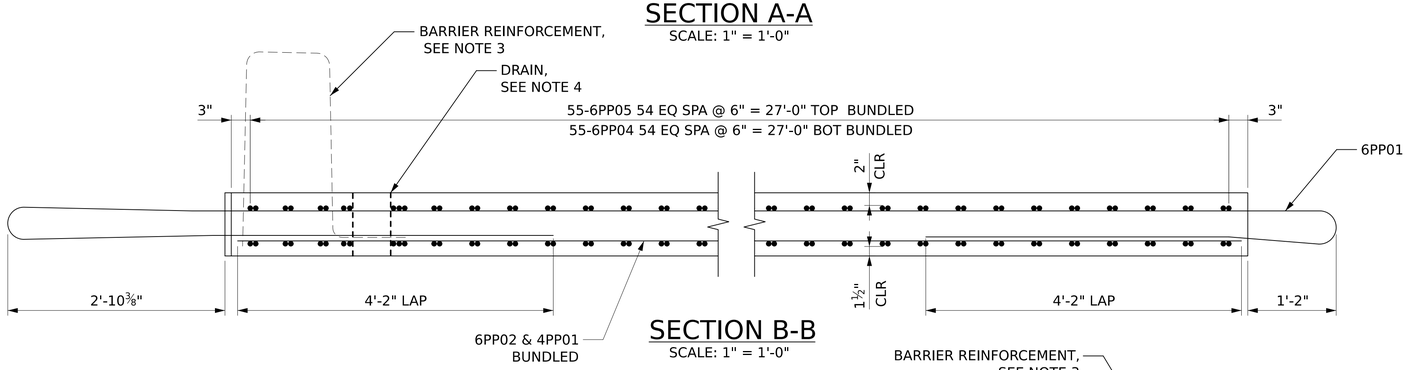
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



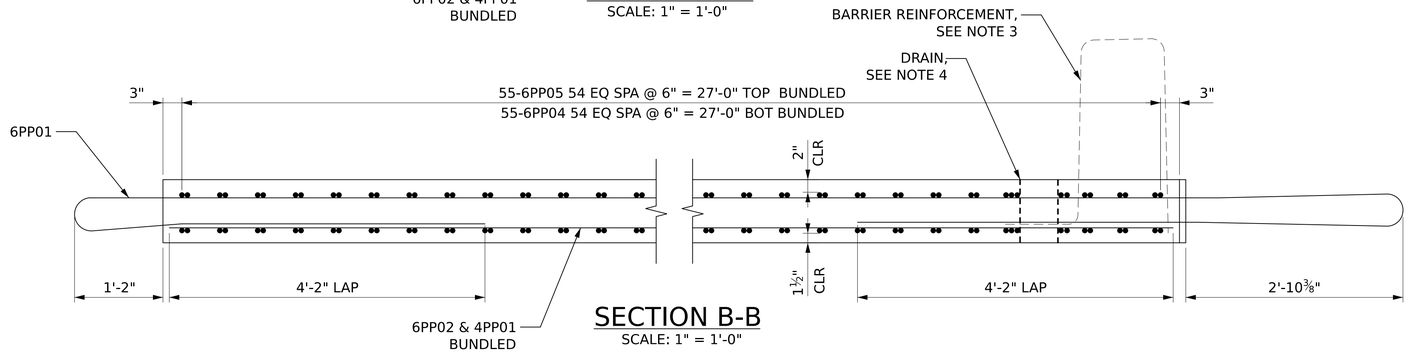
SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 2 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).
3. FOR BARRIER DETAILS AND REINFORCEMENT, SEE "CONCRETE BARRIER - DETAILS" SHEET (UNDER DEVELOPMENT).
4. FOR DRAIN SCUPPER DETAILS, SEE "DRAINAGE SCUPPER DETAILS" SHEET.
5. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING DETAILS" AND "TYPICAL REINFORCEMENT DETAILS 1" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

TYPE PP5AP REINFORCEMENT

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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psserrano

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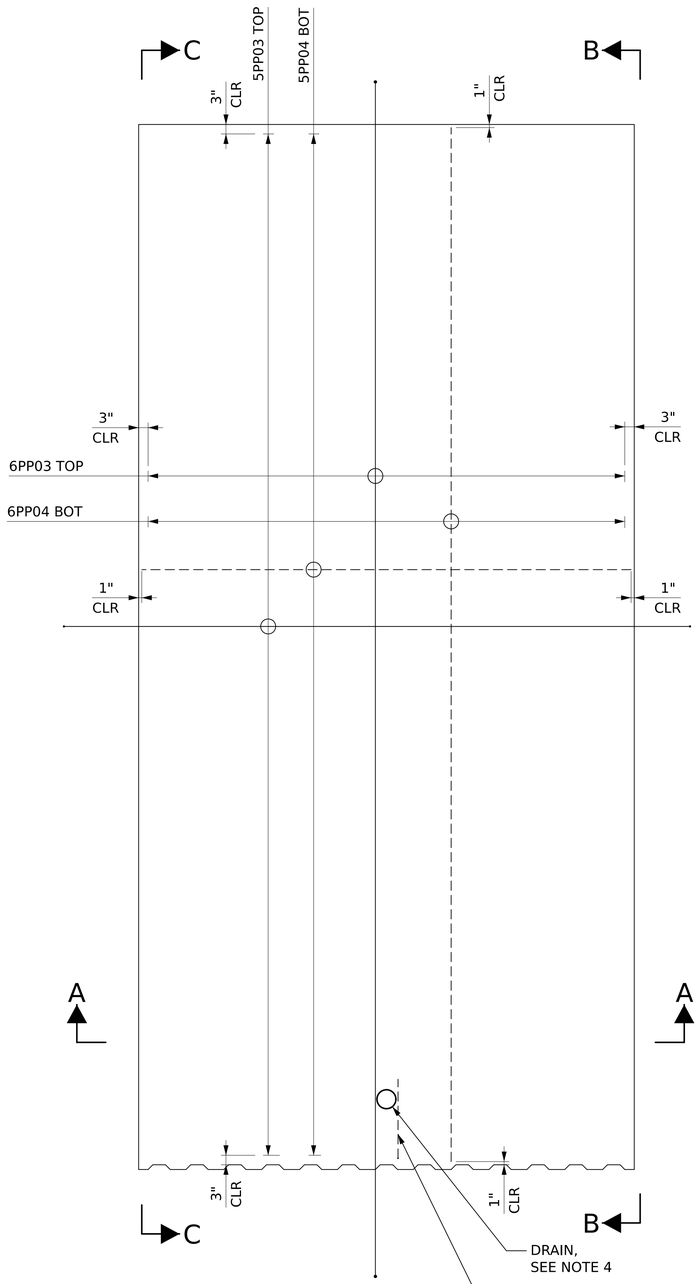
3/14/2025

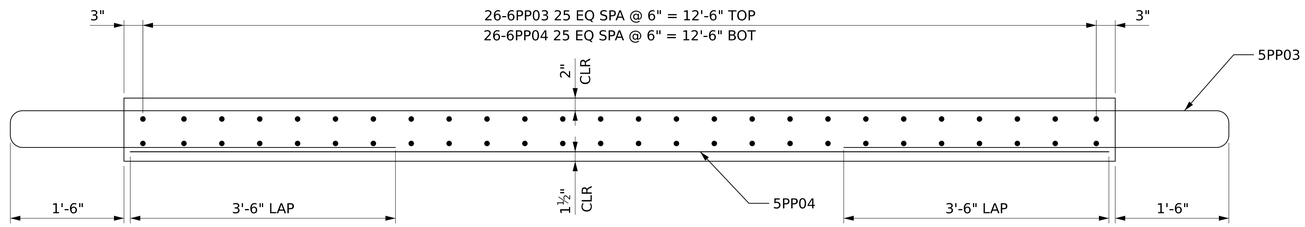
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40746

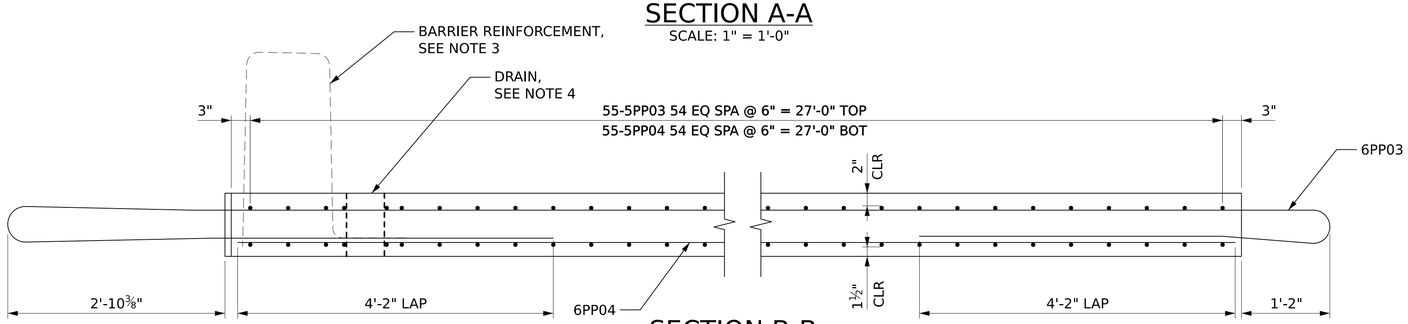


PLAN - PP4A
SCALE: 1/2" = 1'-0"

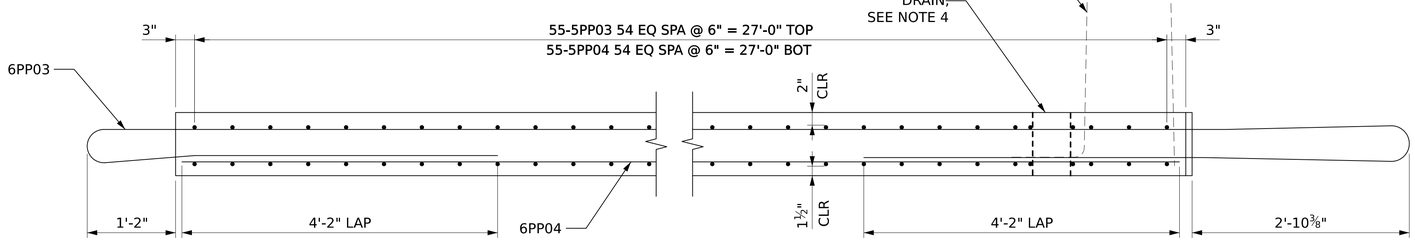
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 2 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).
3. FOR BARRIER DETAILS AND REINFORCEMENT, SEE "CONCRETE BARRIER - DETAILS" SHEET (UNDER DEVELOPMENT).
4. FOR DRAIN SCUPPER DETAILS, SEE "DRAINAGE SCUPPER DETAILS" SHEET.
5. P.T. BLOCKOUT NOT SHOWN. SEE "DECK POST-TENSIONING DETAILS" AND "TYPICAL REINFORCEMENT DETAILS 1" SHEETS.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

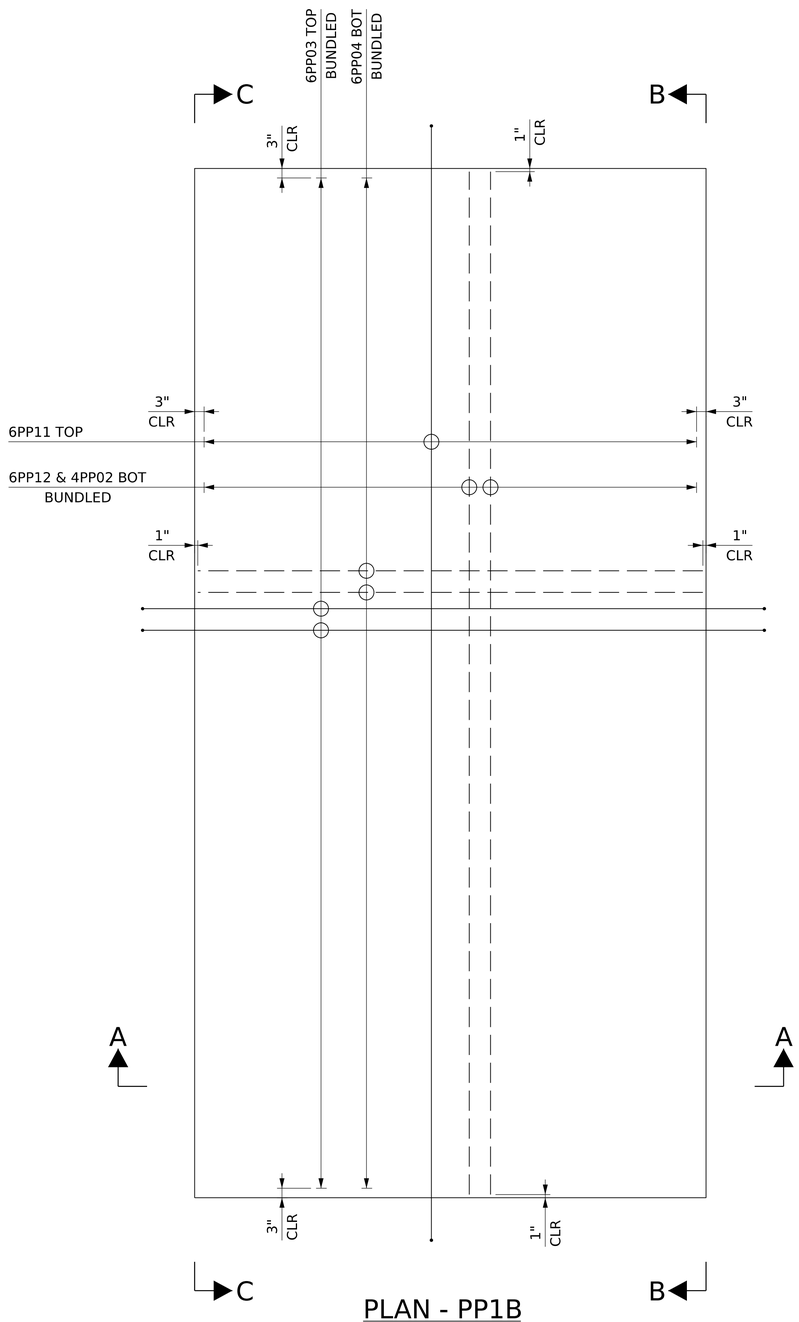
SHEET TITLE
MAIN SPAN BRIDGE
PRECAST DECK PANEL
TYPE PP4A - REINFORCEMENT

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40746.dgn
pserrano
10:32:01 AM
3/13/2025

SHEET REFERENCE 0 1" 2"

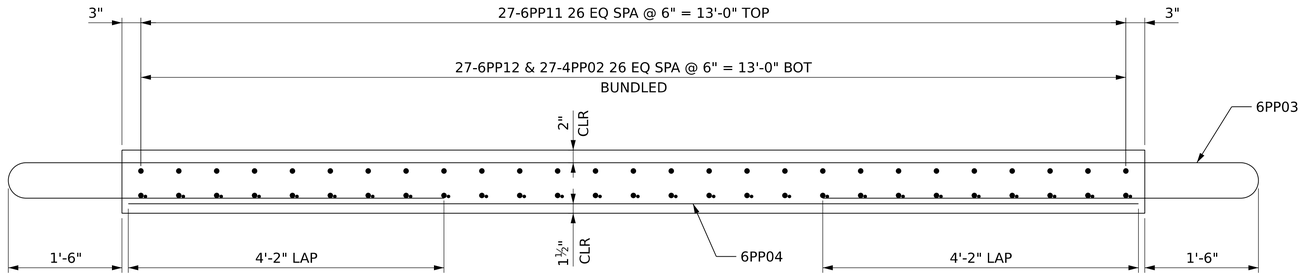
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40748



PLAN - PP1B

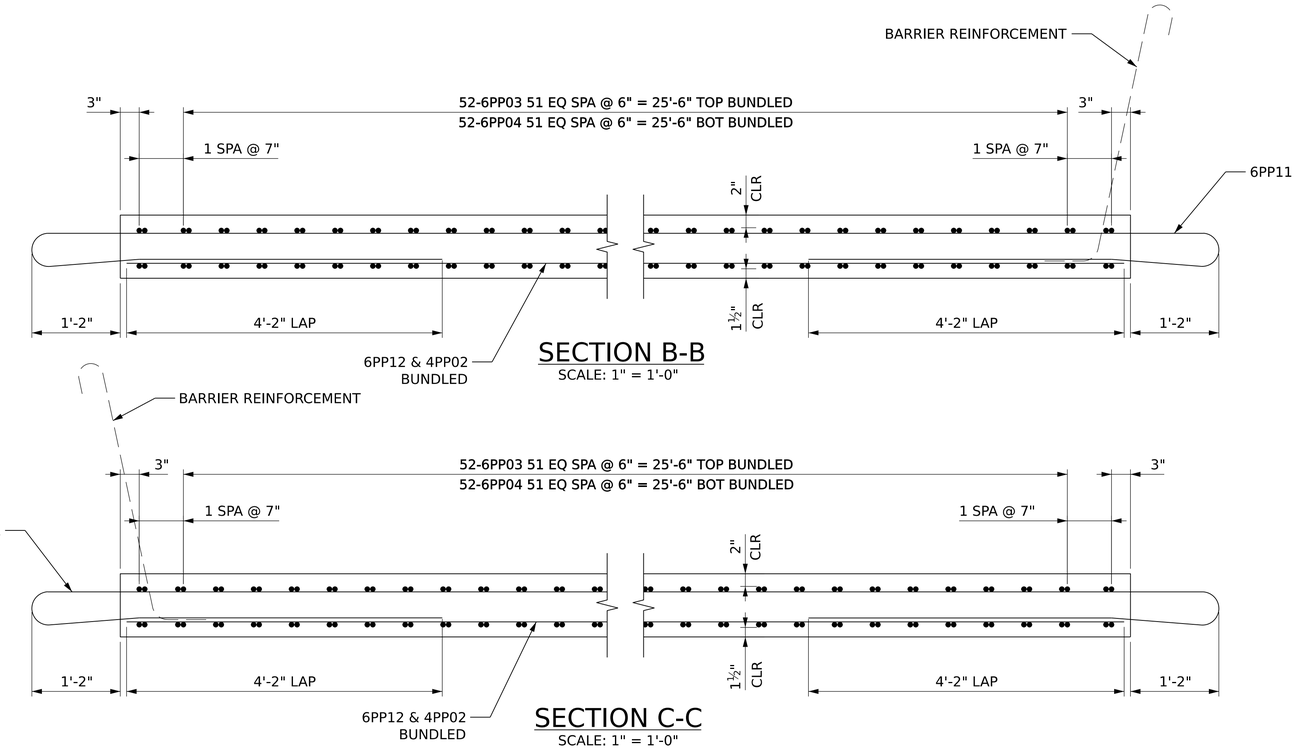
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"

SECTION C-C

SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 5 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

TYPE PP1B - REINFORCEMENT

$FILES$

$USER NAME$

9:40:38 AM

4/2/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
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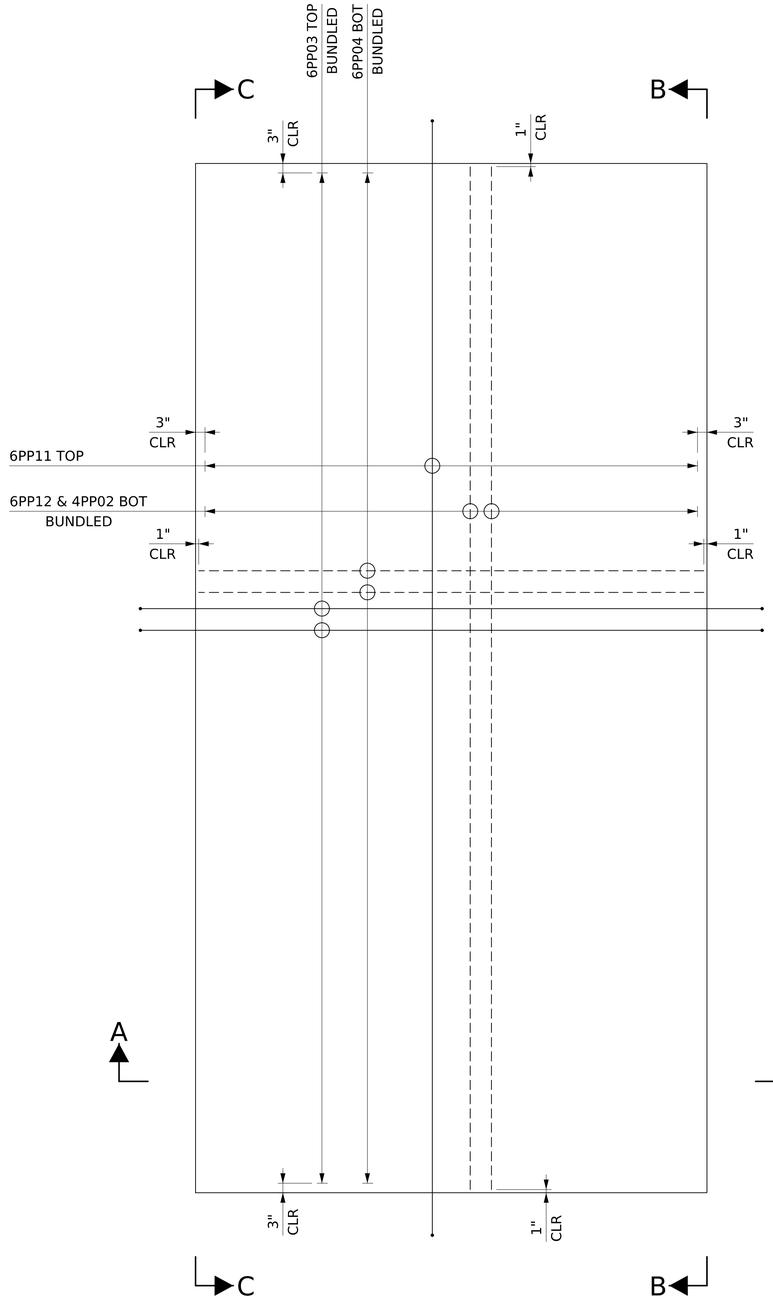
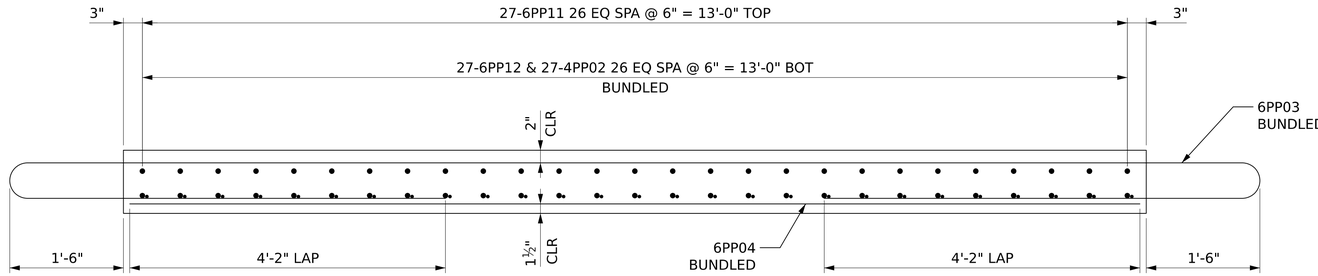


PLAN - PP2BP, PP3BP, PP4BP & PP5BP

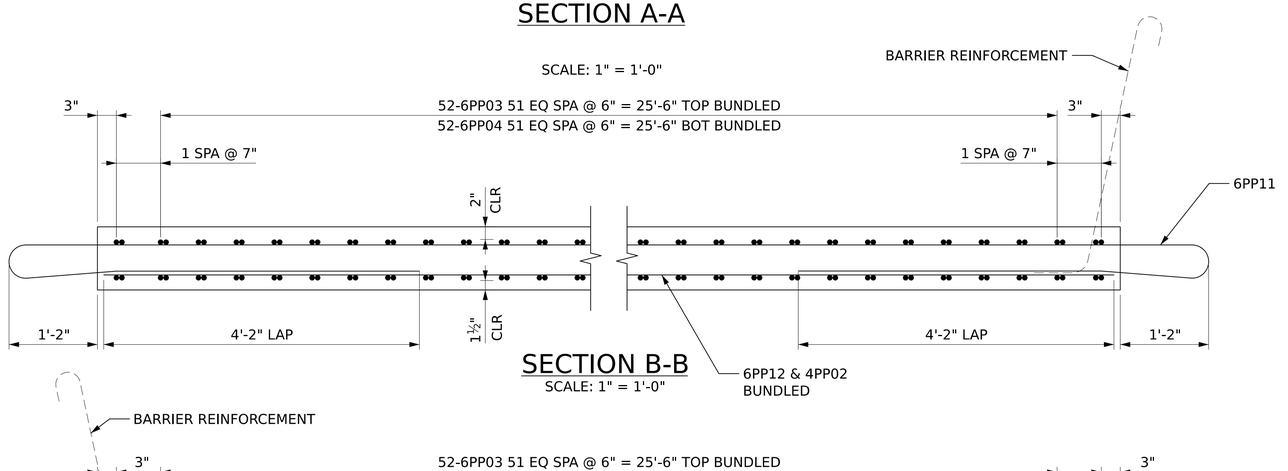
SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



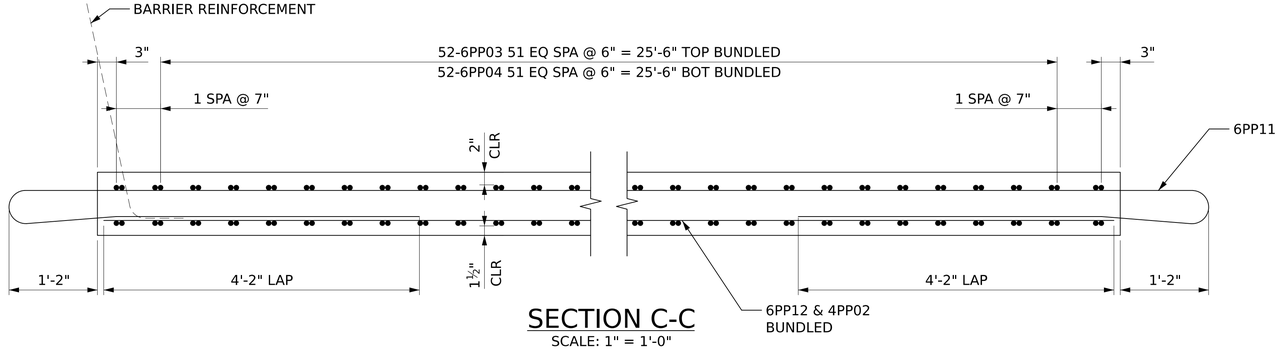
SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"



SECTION C-C

SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 5 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

TYPE PP4BP - REINFORCEMENT

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40751.dgn

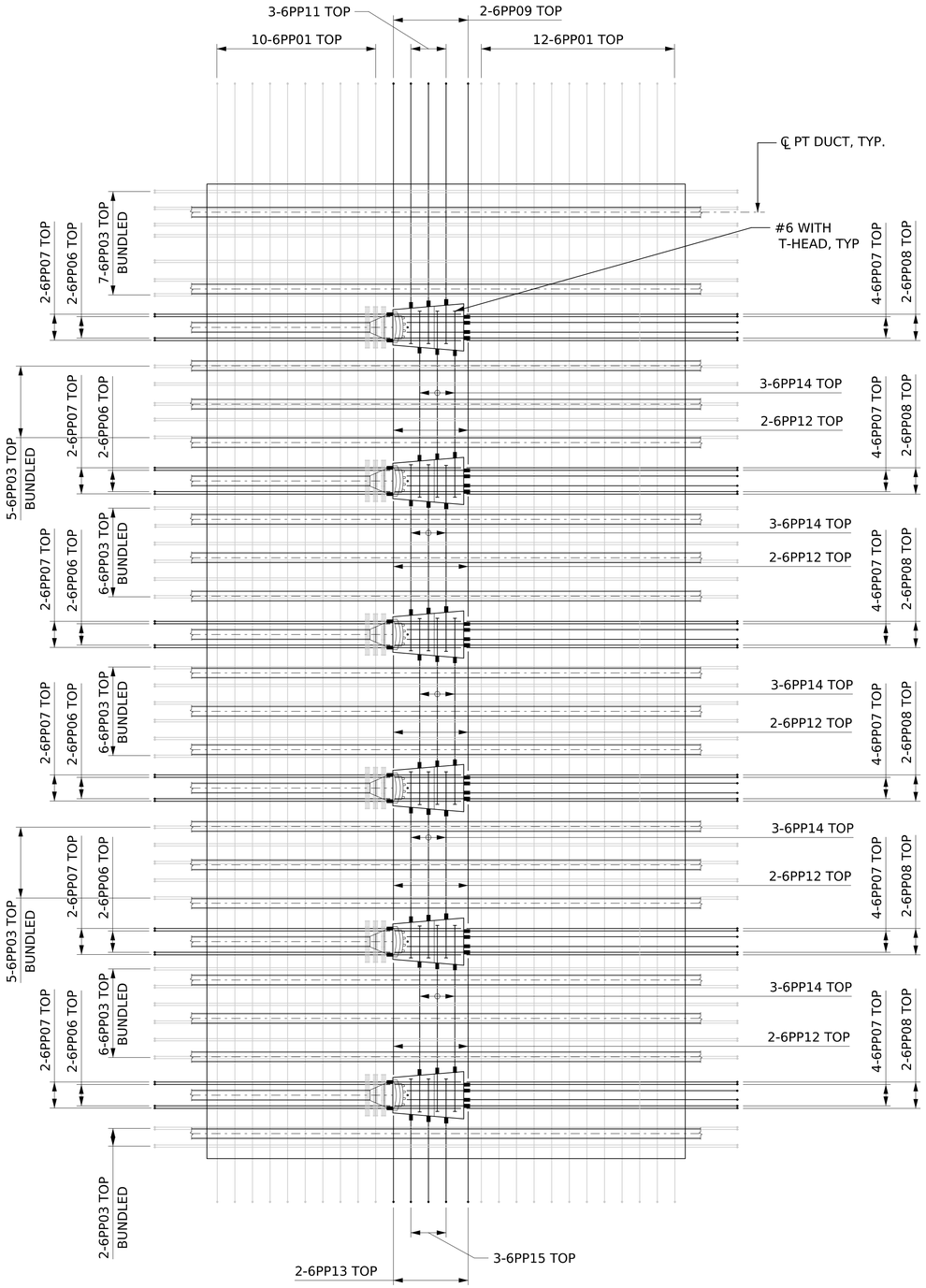
pserrano

9:32:44 AM

4/1/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40761

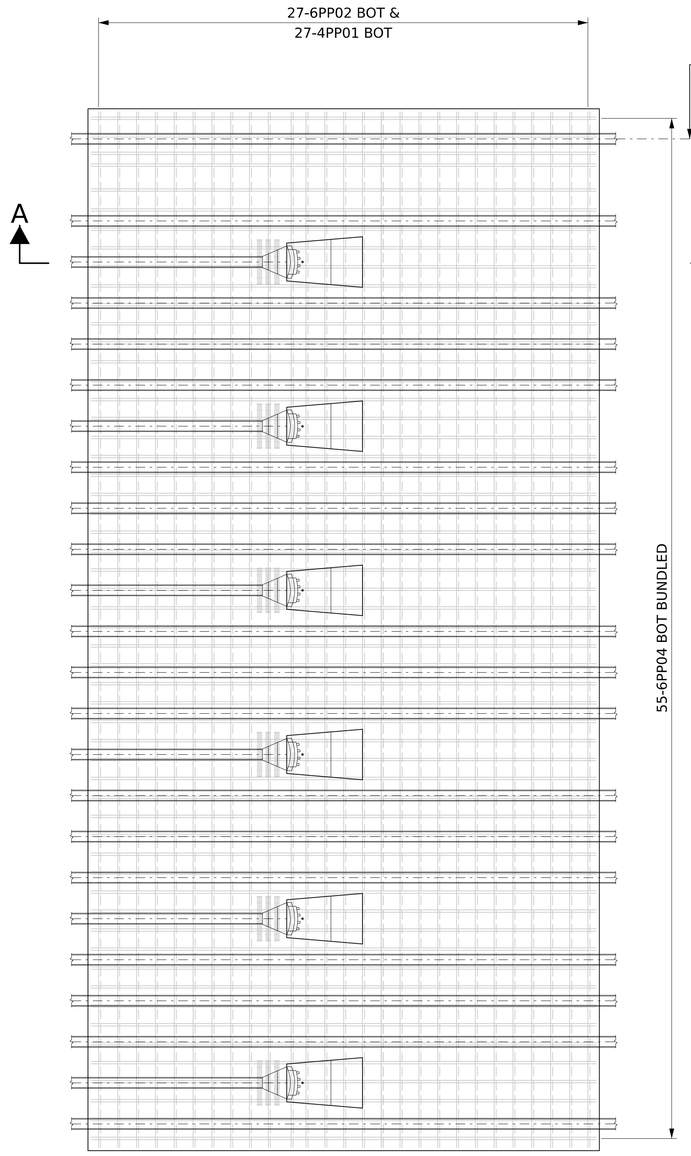
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



PLAN - PP4AP TOP MAT

SCALE: 1/2" = 1'-0"

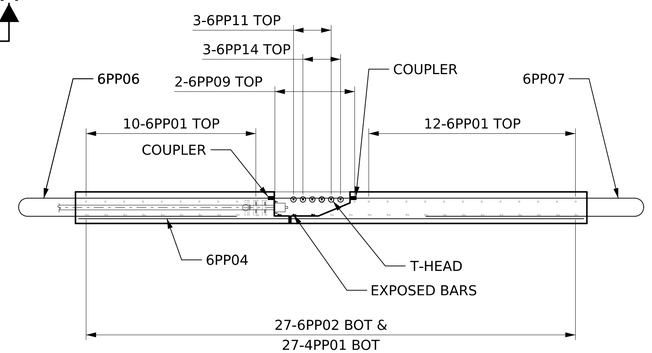
(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



PLAN - PP4AP BOTTOM MAT

SCALE: 1/2" = 1'-0"

(PANEL AT SOUTH EDGE GIRDER SHOWN, PANEL AT NORTH EDGE GIRDER OPPOSITE HAND)



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL - DETAILS 1 - DIMENSIONS" SHEET.
2. WORK THIS REINFORCEMENT WITH BAR TABLES, SEE DRAWING "PRECAST PANEL - TYPICAL REINFORCEMENT DETAILS" SHEET (UNDER DEVELOPMENT).
3. CONFINEMENT REINFORCEMENT SHALL BE PROVIDED WITH POST-TENSIONING SYSTEM.
4. TOP LEG OF THE HAIRPINS TO BE CUT 1" BEFORE BLOCKOUT AT LOCATIONS WHERE THEY WOULD OTHERWISE CONFLICT WITH PLACEMENT OF COUPLERS AND/OR CONFINEMENT REINFORCEMENT.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PRECAST DECK PANEL

TYPICAL REINFORCEMENT DETAILS 1

MRB-S04-BR-40761.dgn

rweibel

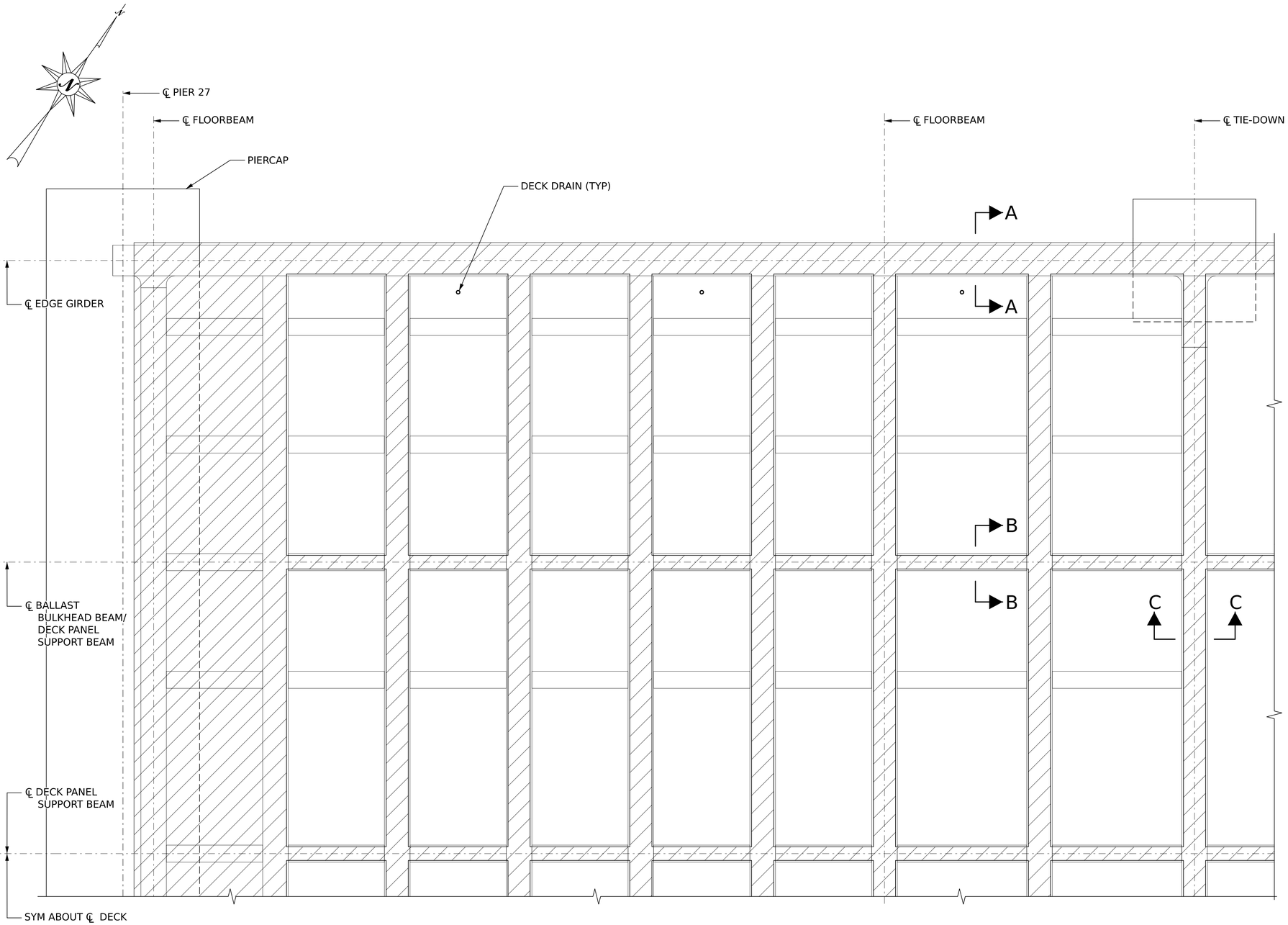
12:08:29 PM

3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40781

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

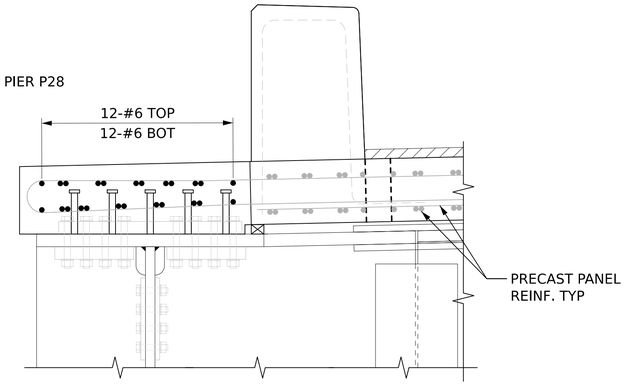
2" 1" 0 SHEET REFERENCE



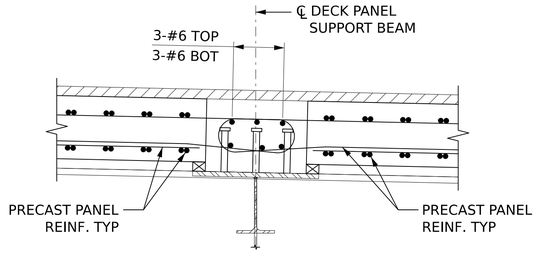
LEGEND:

CAST-IN-PLACE CONCRETE

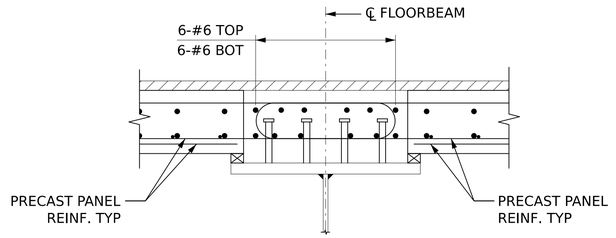
DECK - PARTIAL PLAN
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL REINFORCEMENT" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

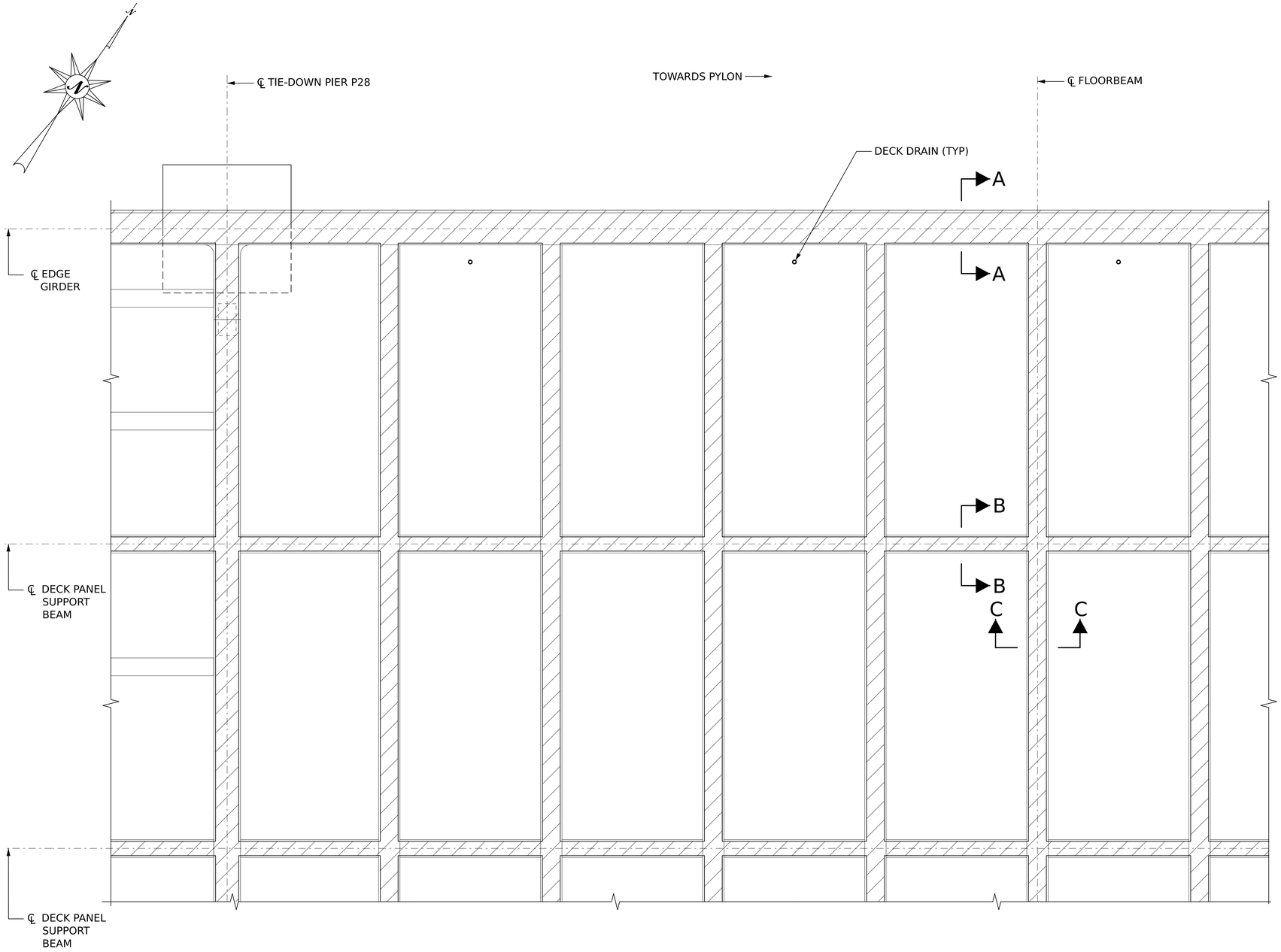
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
CIP STITCH REINFORCEMENT
DETAILS 1

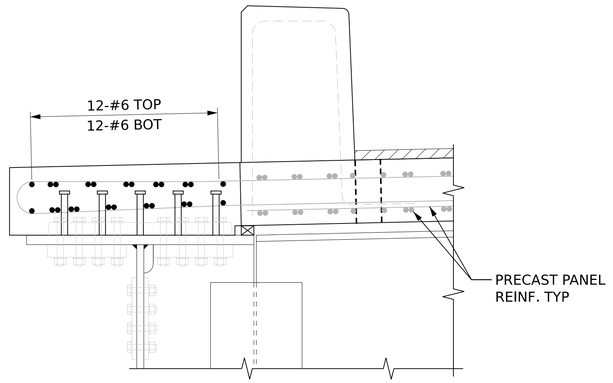
MRB-S04-BR-40781.dgn
rweibel
12:08:38 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40782

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



DECK - PARTIAL PLAN
SCALE: 3/16" = 1'-0"



SECTION A-A
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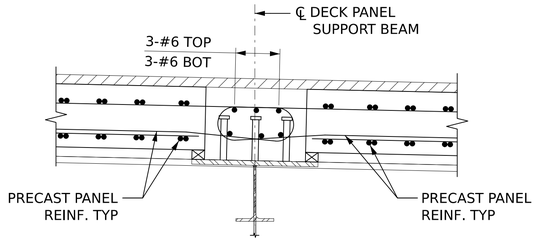

SECTION B-B
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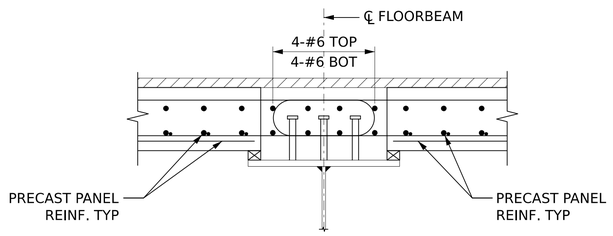

SECTION C-C
SCALE: 1" = 1'-0"

LEGEND:

CAST-IN-PLACE CONCRETE

NOTES:

1. WORK THIS SHEET WITH "PRECAST DECK PANEL REINFORCEMENT" SHEETS.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

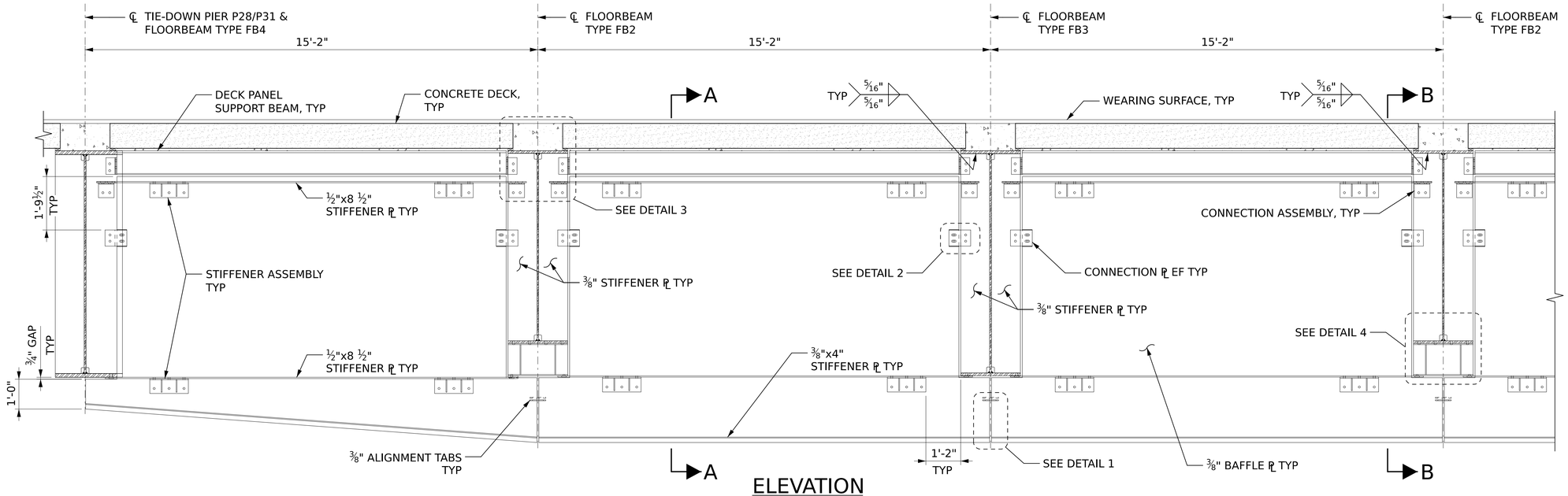
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
CIP STITCH REINFORCEMENT
DETAILS 2

MRB-S04-BR-40782.dgn
rweibel
12:08:49 PM
3/14/2025

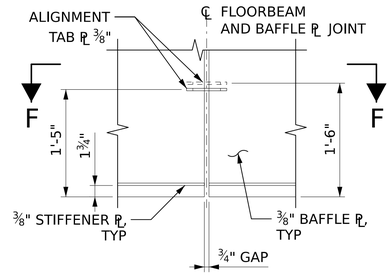
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40791

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



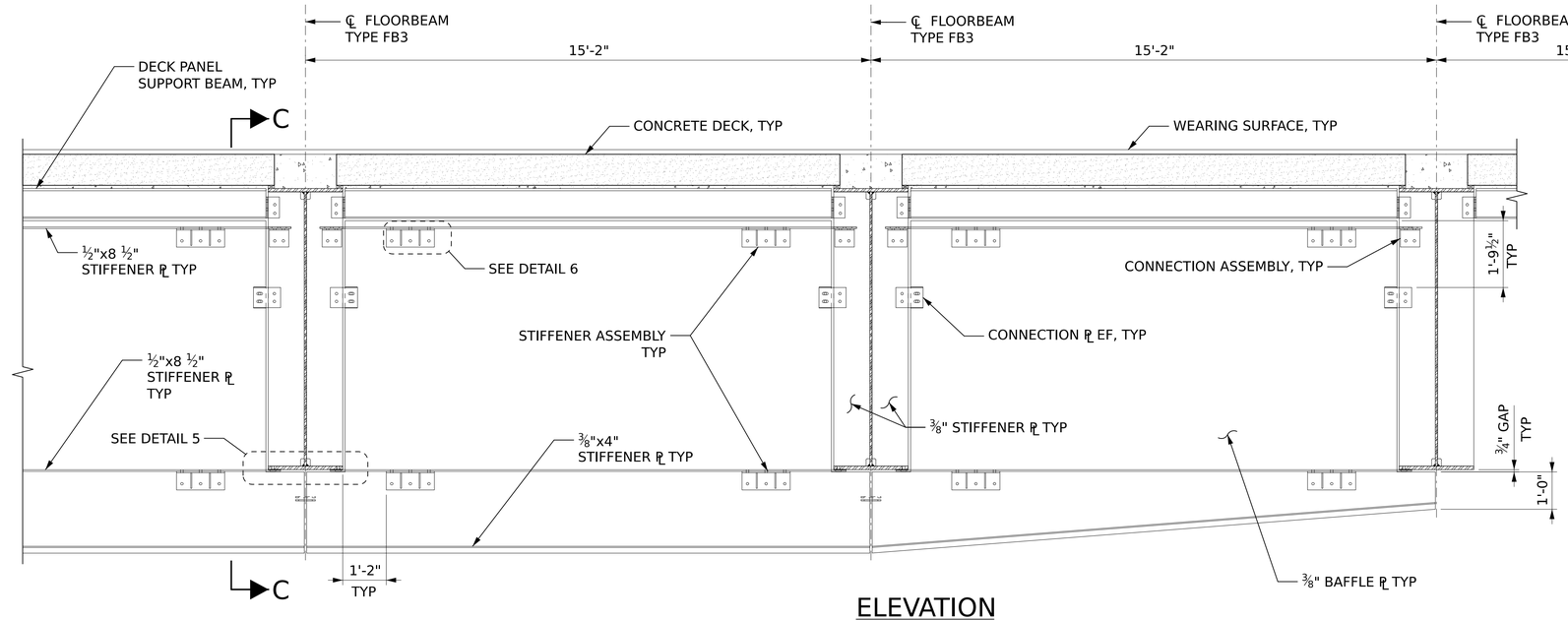
ELEVATION

SCALE: ½" = 1'-0"
(BACK SPAN TERMINATION AND TYPICAL FIELD SECTION)



DETAIL 1

SCALE: 1 = 1'-0"



ELEVATION

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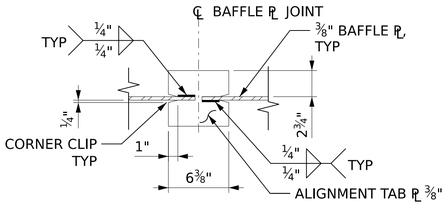
(NEAR PYLONS)



SECTION F-F

SCALE: 1 1/2" = 1'-0"

NOTES:

1. SEE "STEEL FRAMING LAYOUT" SHEETS FOR EXTENTS OF BAFFLE PLATES.
2. ALL WIND BAFFLE PLATE STEEL SHALL BE ASTM A709 GRADE 50W.
3. ALL WIND BAFFLE PLATE STEEL SHALL BE PAINTED WITH 3 COAT SYSTEM, BEGINNING WITH ZINC PRIMER.
4. STIFFENER TO WEB WELD SHALL BE TERMINATED 1" ± ¼" FROM CLIP. STIFFENER TO FLANGE WELDS SHALL BE TERMINATED ½" ± ¼" FROM THE CLIP AND EDGES OF THE STIFFENER PLATE.
5. ALL BAFFLE PLATE CONNECTION BOLTS SHALL BE ASTM A325 TYPE 3.
6. WIND BAFFLES SHALL BE INSTALLED DURING THE COURSE OF CANTILEVER ERECTION, WITH BOLTS AT SLOTTED CONNECTIONS INSTALLED FINGER TIGHT WITH LOCKNUT. LOCKNUTS REMOVED AND BOLTS TORQUED AT END OF CANTILEVER CONSTRUCTION.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
WIND BAFFLE
DETAILS 1

MRB-S04-BR-40791.dgn
rweibel
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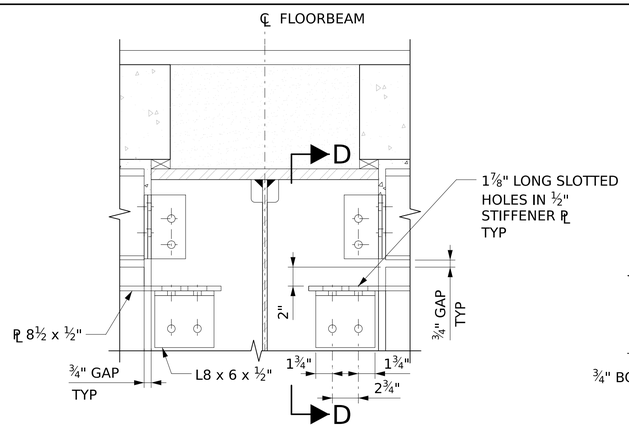
3/14/2025

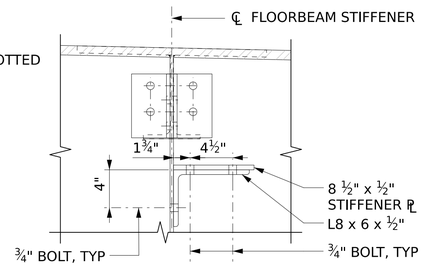
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40792

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

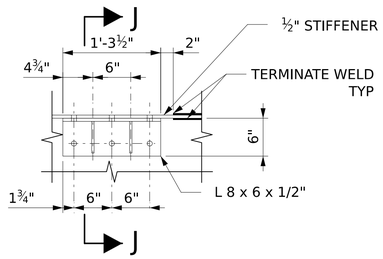
SHEET REFERENCE 0 1" 2"



DETAIL 3
SCALE: 1 1/2" = 1'-0"



SECTION D-D
SCALE: 1 1/2" = 1'-0"



DETAIL 6
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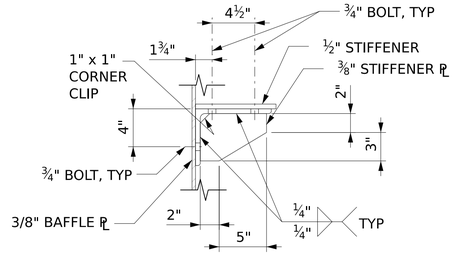
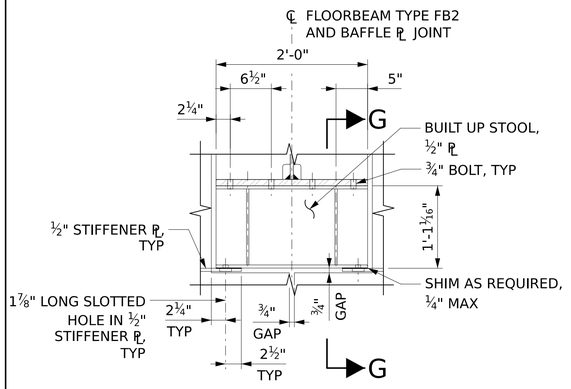
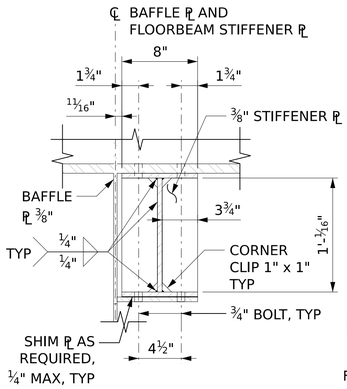


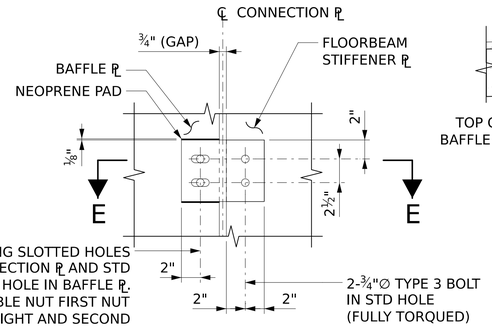
SECTION J-J
SCALE: 1 1/2" = 1'-0"



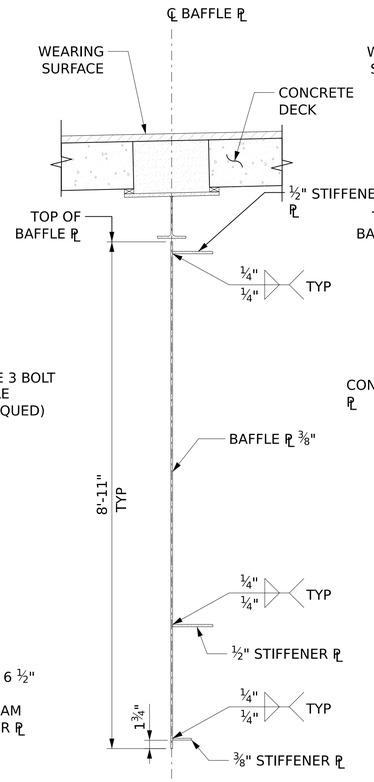
DETAIL 4
SCALE: 1" = 1'-0"



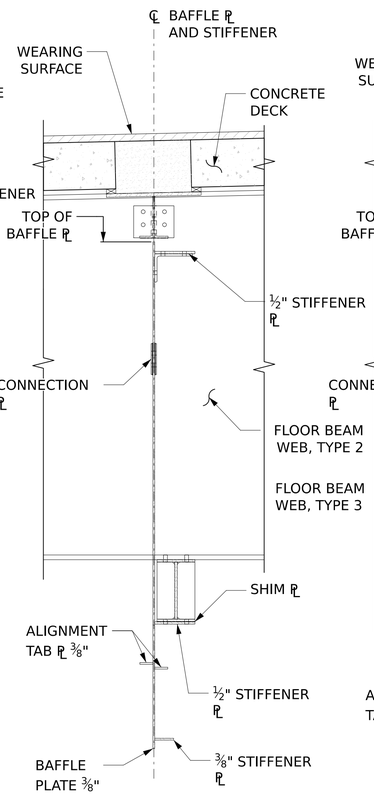
SECTION G-G
SCALE: 1 1/2" = 1'-0"



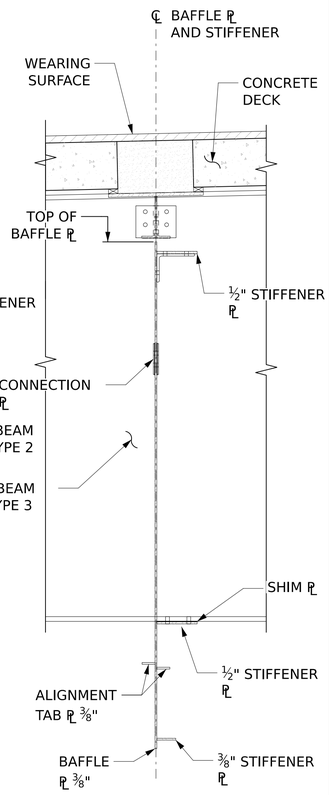
DETAIL 2
SCALE: 1 1/2" = 1'-0"



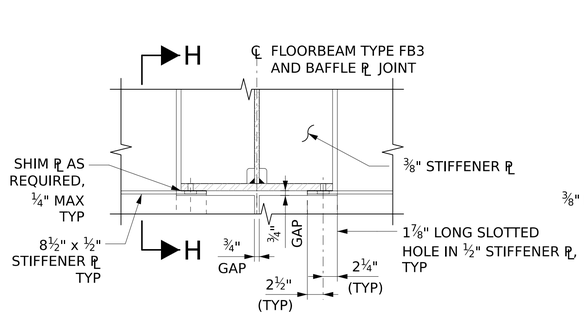
SECTION A-A
SCALE: 3/4" = 1'-0"



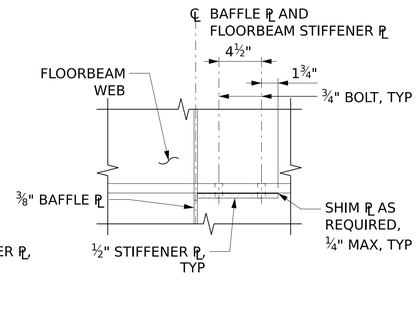
SECTION B-B
SCALE: 3/4" = 1'-0"



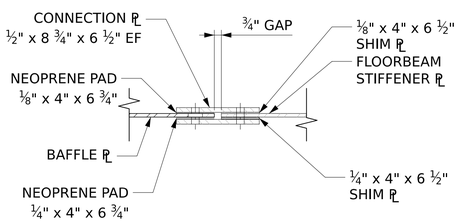
SECTION C-C
SCALE: 3/4" = 1'-0"



DETAIL 5
SCALE: 1" = 1'-0"



SECTION H-H
SCALE: 1 1/2" = 1'-0"



SECTION E-E
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FOR NOTES, SEE "WIND BAFFLES DETAILS 1" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
WIND BAFFLE
DETAILS 2

MRB-S04-BR-40792.dgn
mrisip
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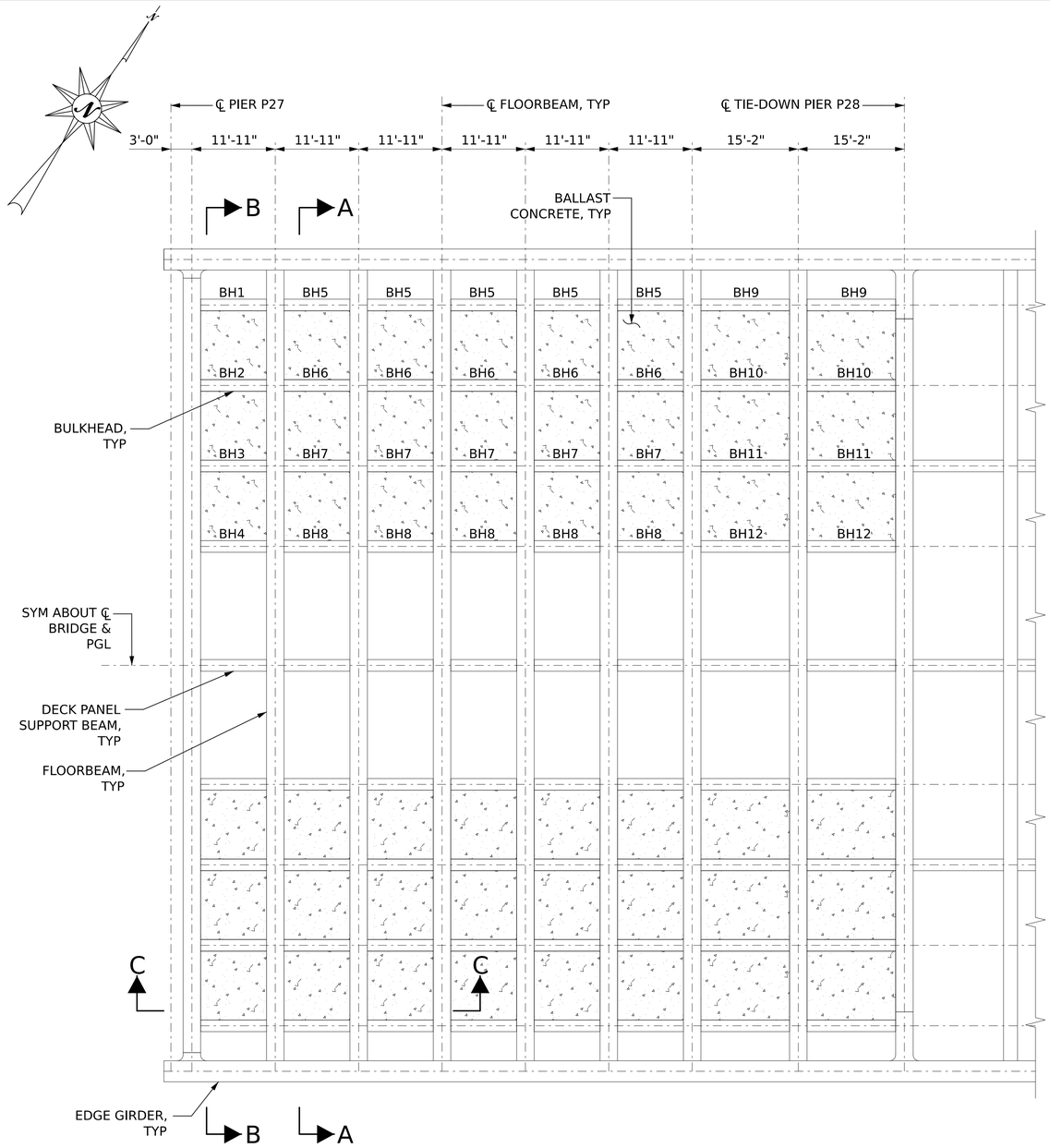
4/1/2025

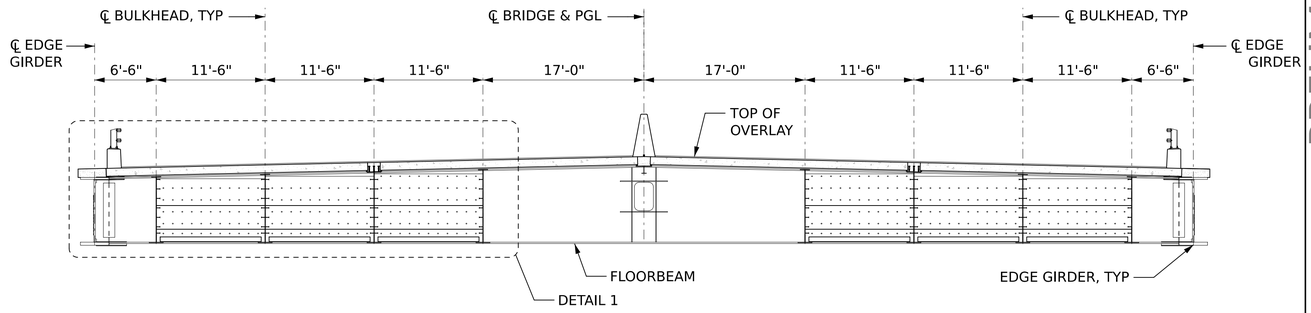
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40801



BULKHEAD LAYOUT AT PIER P27

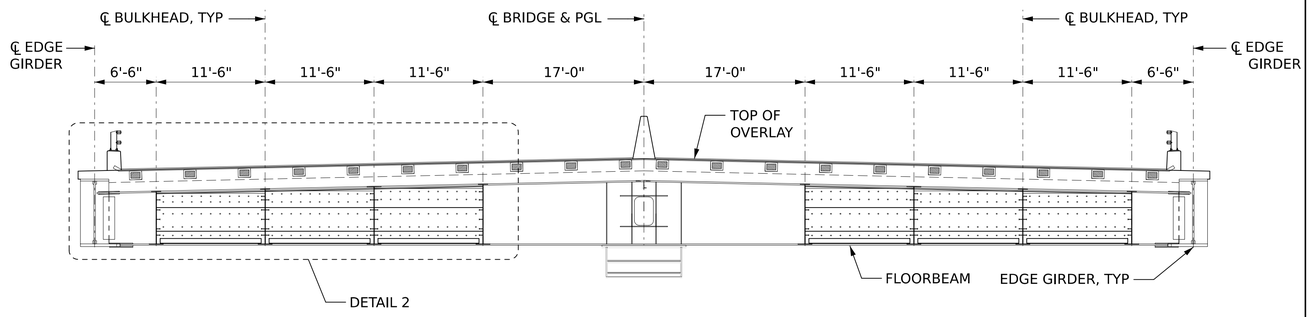
SCALE: 1" = 10'-0"

(SHOWING BALLAST AT PIER P27, BALLAST AT PIER P32 SIMILAR)



SECTION A-A

SCALE: 1/8" = 1'-0"



SECTION B-B

SCALE: 1/8" = 1'-0"

NOTES:

1. ALL BALLAST BULKHEAD STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50W.
2. EXTERIOR FACES BULKHEAD BEAMS SHALL BE ZINC METALLIZED WITH SEAL AND TOP COAT. INTERIOR PORTIONS IN CONTACT WITH BALLAST CONCRETE SHALL HAVE ZINC PRIMER MIST COAT.
3. ALL BOLTS 1" DIAMETER F3125 GRADE A490. THREADS EXCLUDED FROM SHEAR PLANES.
4. THE VOID BETWEEN THE BALLAST AND PRECAST PANELS SHALL BE GROUTED WITH SUFFICIENT PRESSURE AND USING METHODS THAT WILL COMPLETELY FILL VOID. GROUTING SHALL TAKE PLACE AFTER STRESSING LONGITUDINAL DECK POST-TENSIONING.
5. FOR FLOORBEAM DETAILS, SEE "TRANSVERSE FLOORBEAM TYPE FB5/FB6/FB7" SHEETS.
6. FOR DETAILS 1 AND DETAILS 2, SEE "PIER P27 & P32 BALLAST - DETAILS 2" SHEET.
7. FOR BALLAST PRECAST PANEL DETAILS, SEE "P27 & P32 BALLAST PANEL - DETAILS" SHEET. FOR CAST-IN-PLACE BALLAST REINFORCEMENT DETAILS, SEE "PIER 27 & P32 BALLAST DETAILS 4" SHEET.

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P27 & P32 BALLAST

DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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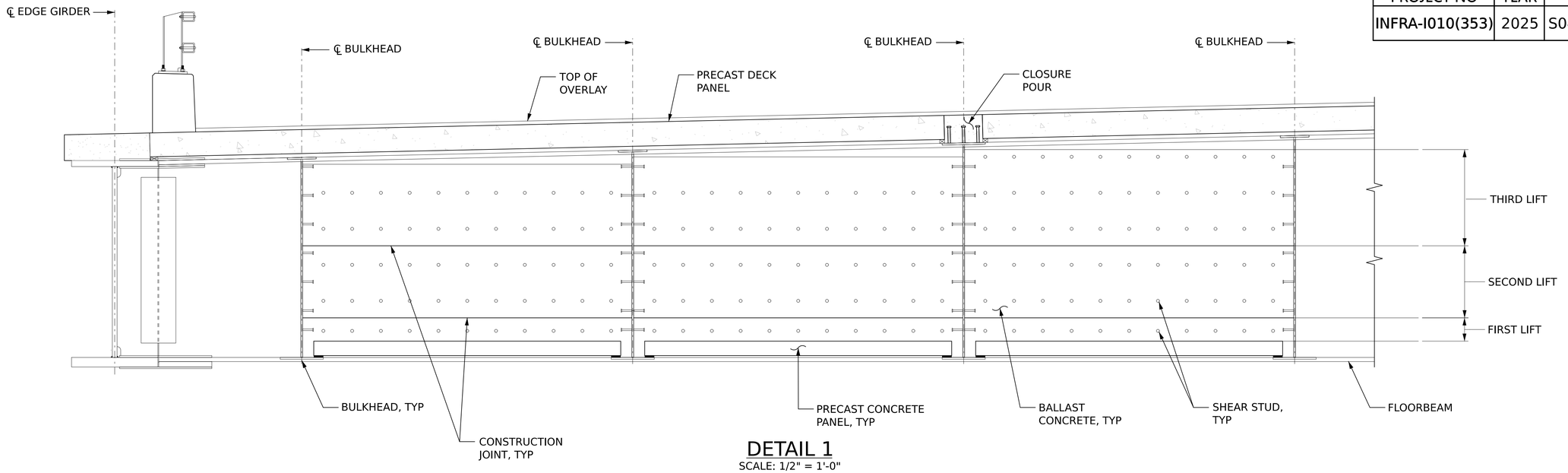
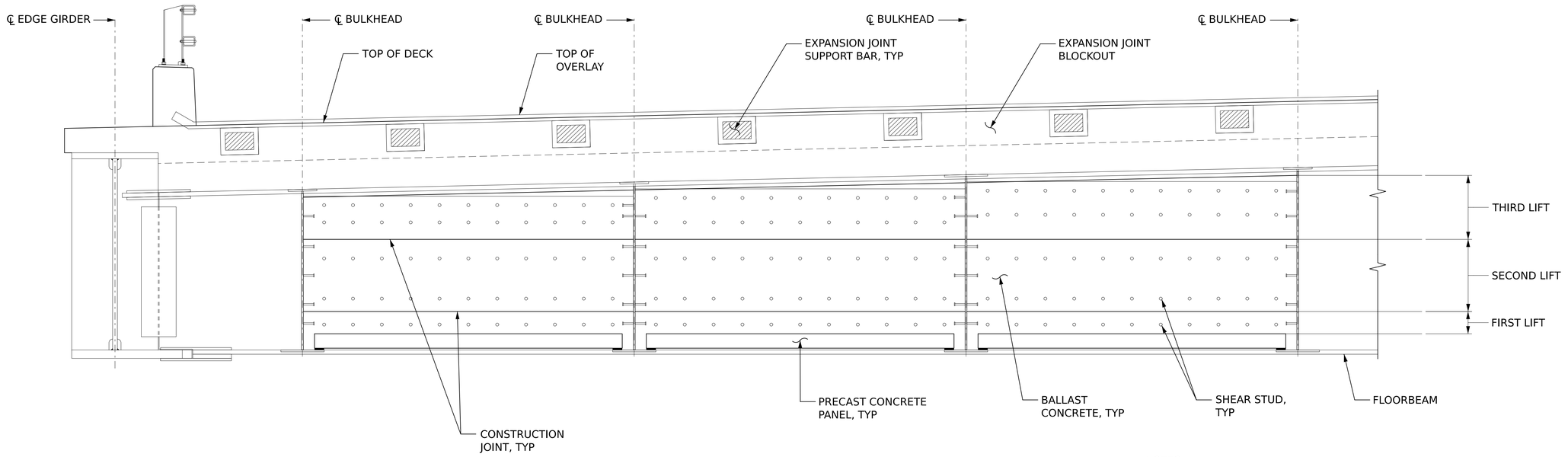
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40802



DETAIL 1
SCALE: 1/2" = 1'-0"



DETAIL 2
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES SEE "PIER P27 & PIER P32 BALLAST DETAILS 1" SHEET.
2. WORK THIS SHEET WITH ALL "PIER P27 & PIER P32 BALLAST - DETAILS X" SHEETS.

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COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P27 & P32 BALLAST

DETAILS 2

PRELIMINARY

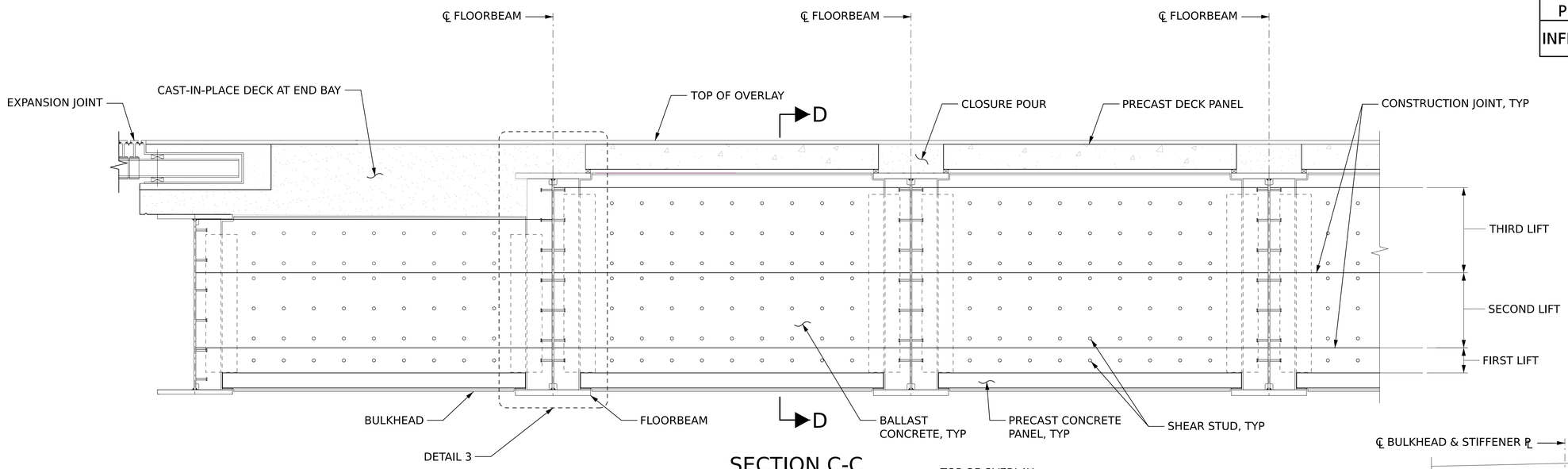
NOT TO BE USED FOR CONSTRUCTION

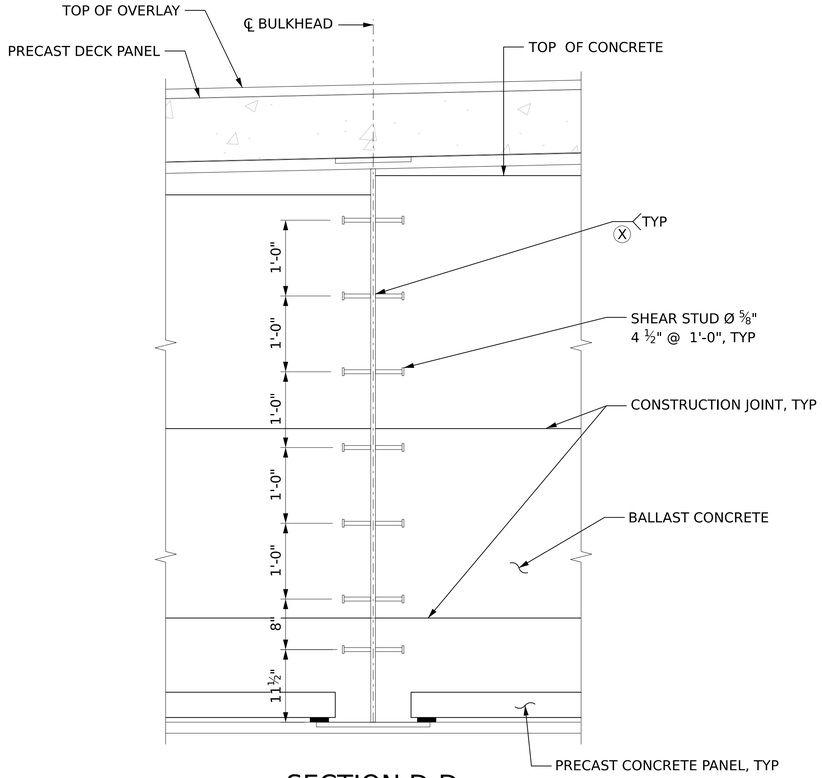
MRB-S04-BR-40802.dgn rweibel 12:09:33 PM 3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40803

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

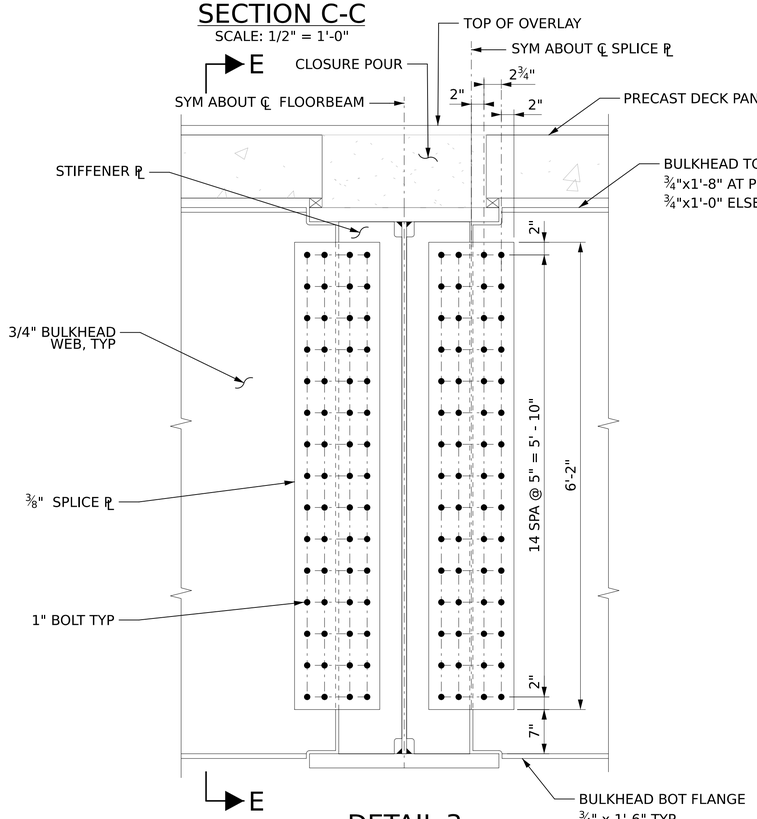
SHEET REFERENCE 0 1" 2"



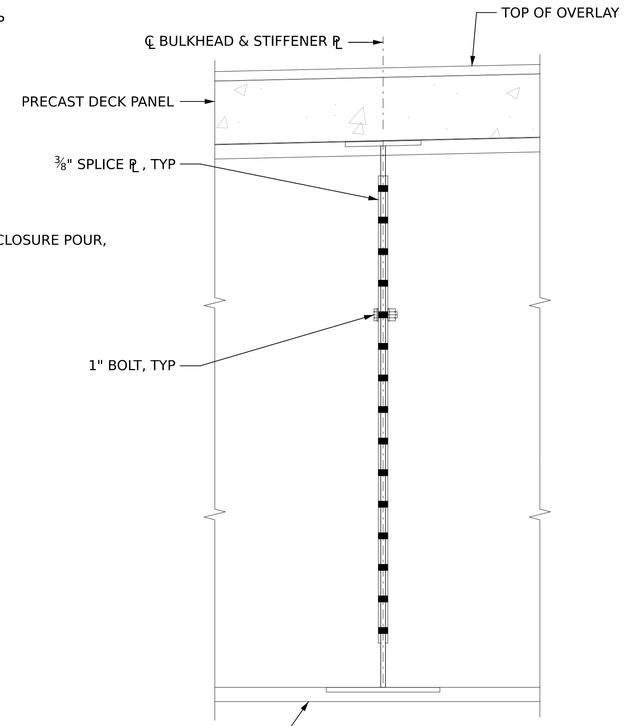


SECTION D-D
SCALE: 1" = 1'-0"

SECTION C-C
SCALE: 1/2" = 1'-0"



DETAIL 3
SCALE: 1" = 1'-0"



SECTION E-E
SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES SEE "PIER 27 & P32 BALLAST DETAILS 1" SHEET.
2. WORK THIS SHEET WITH ALL "PIER P27 & P32 BALLAST - DETAILS X" SHEETS.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 BALLAST
DETAILS 3

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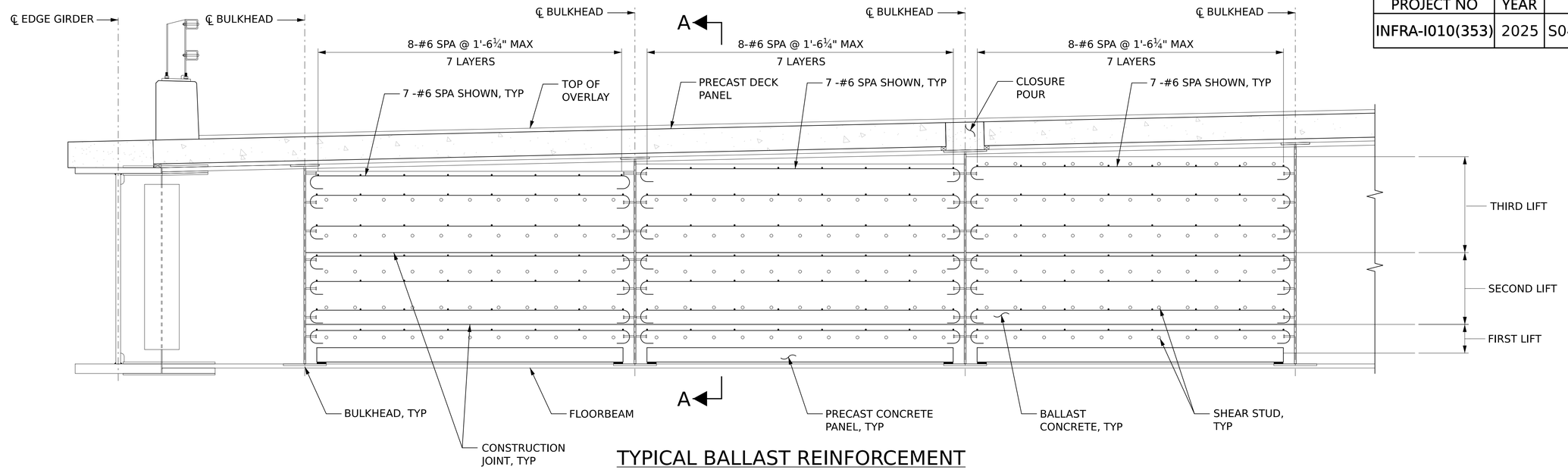
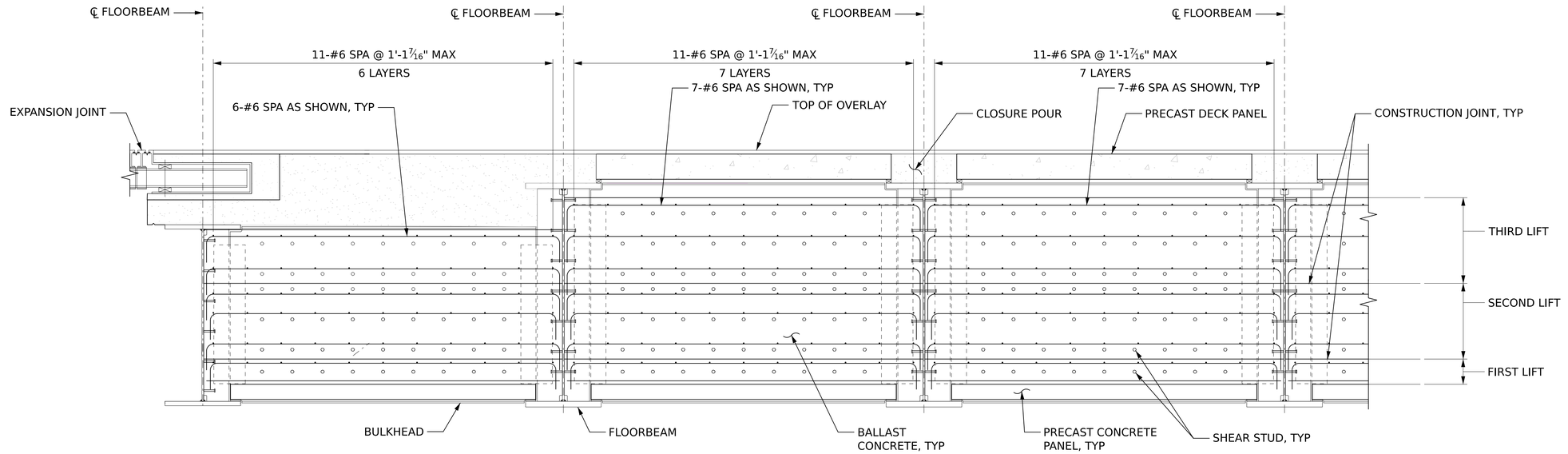
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40804



TYPICAL BALLAST REINFORCEMENT

SCALE: 1/2" = 1'-0"



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES SEE "PIER 27 & P32 BALLAST DETAILS 1" SHEET.
2. WORK THIS SHEET WITH ALL "PIER P27 & P32 BALLAST - DETAILS X" SHEETS.

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ACCEPTED BY

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ALABAMA DEPARTMENT OF TRANSPORTATION

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P27 & P32 BALLAST

DETAILS 4

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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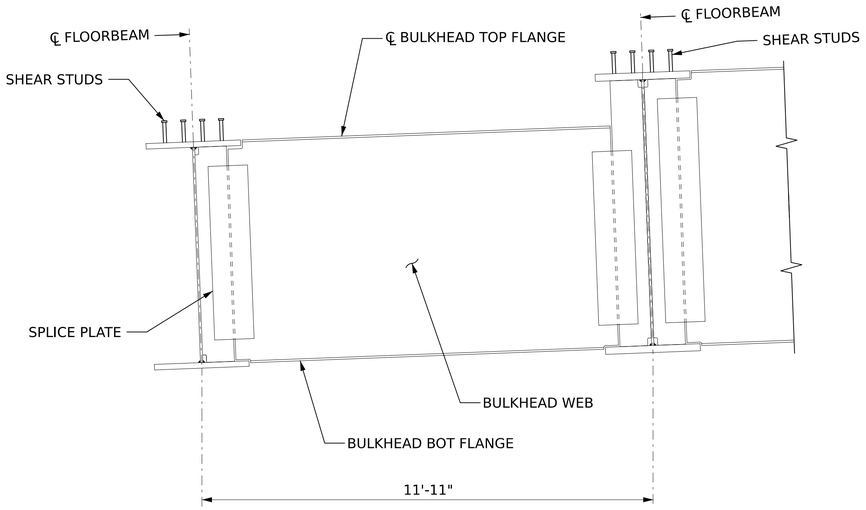
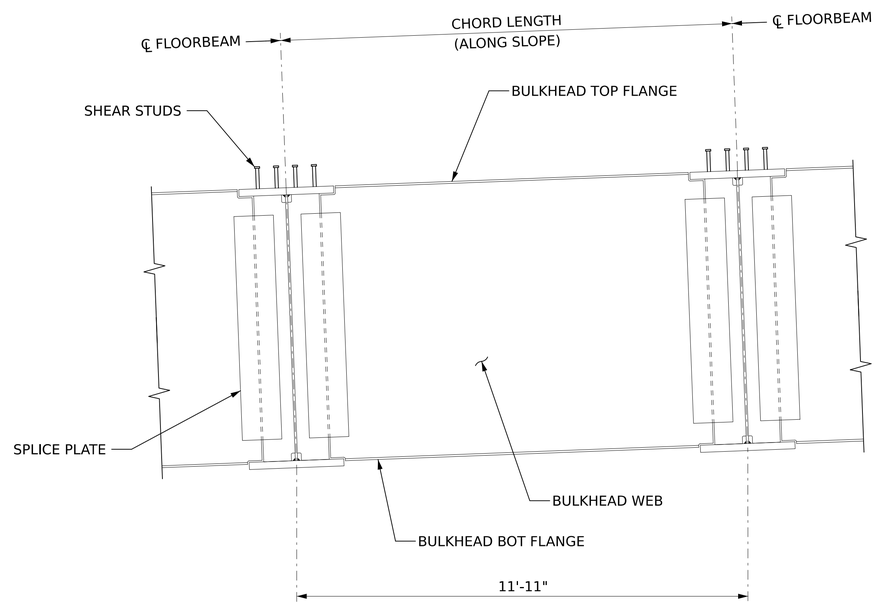
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40805



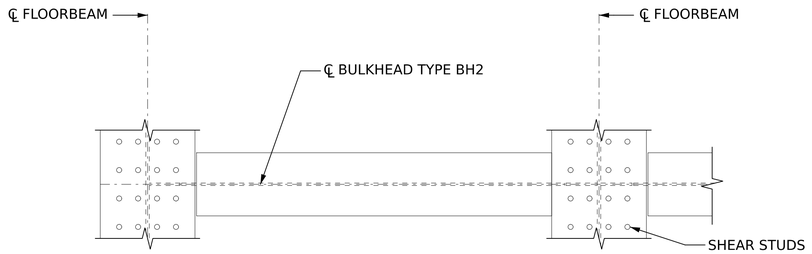
BALLAST BULKHEAD TYPE BH2 - ELEVATION

SCALE: 1/2" = 1'-0"



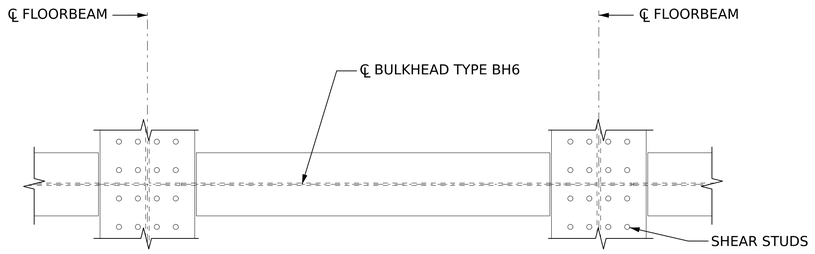
BALLAST BULKHEAD TYPE BH6 - ELEVATION

SCALE: 1/2" = 1'-0"



BALLAST BULKHEAD TYPE BH2 - TOP PLAN VIEW

SCALE: 1/2" = 1'-0"



BALLAST BULKHEAD TYPE BH6 - TOP PLAN VIEW

SCALE: 1/2" = 1'-0"

NOTES:

1. FOR NOTES SEE "PIER 27 & P32 BALLAST DETAILS 1" SHEET.
2. WORK THIS SHEET WITH ALL "PIER 27 & P32 BALLAST - DETAILS X" SHEETS.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P27 & P32 BALLAST

BULKHEAD DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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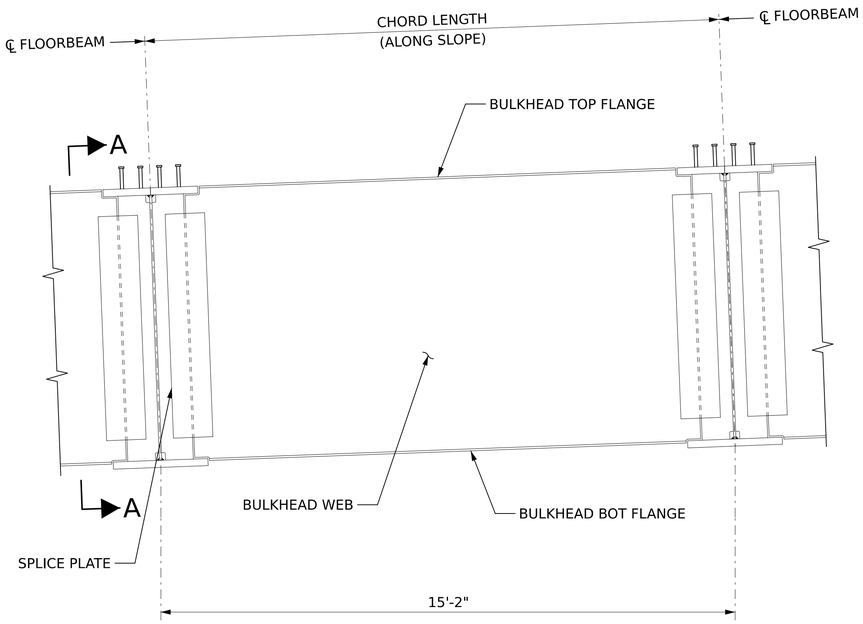
3/14/2025

2" 1" 0 SHEET REFERENCE

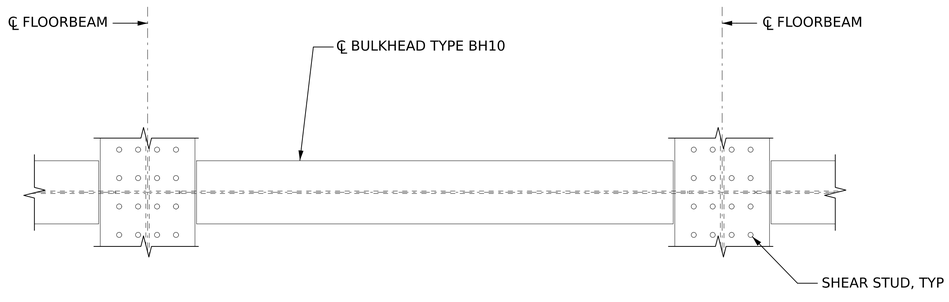
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40806

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



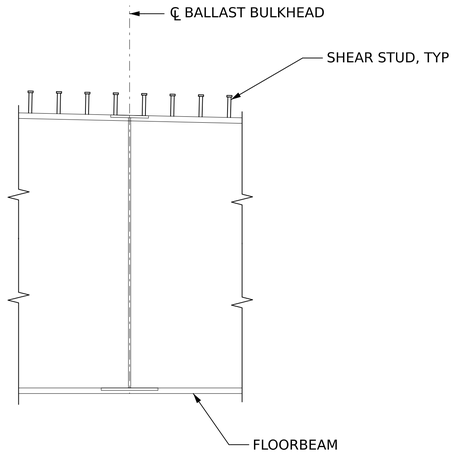
BALLAST BULKHEAD TYPE BH10 - ELEVATION

SCALE: 1/2" = 1'-0"



BALLAST BULKHEAD TYPE BH10 - TOP PLAN VIEW

SCALE: 1/2" = 1'-0"



SECTION A-A

SCALE: 1" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "PIER P27 & P32 BALLAST - DETAILS 1" SHEET.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 BALLAST
BULKHEAD DETAILS 2

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rweibel
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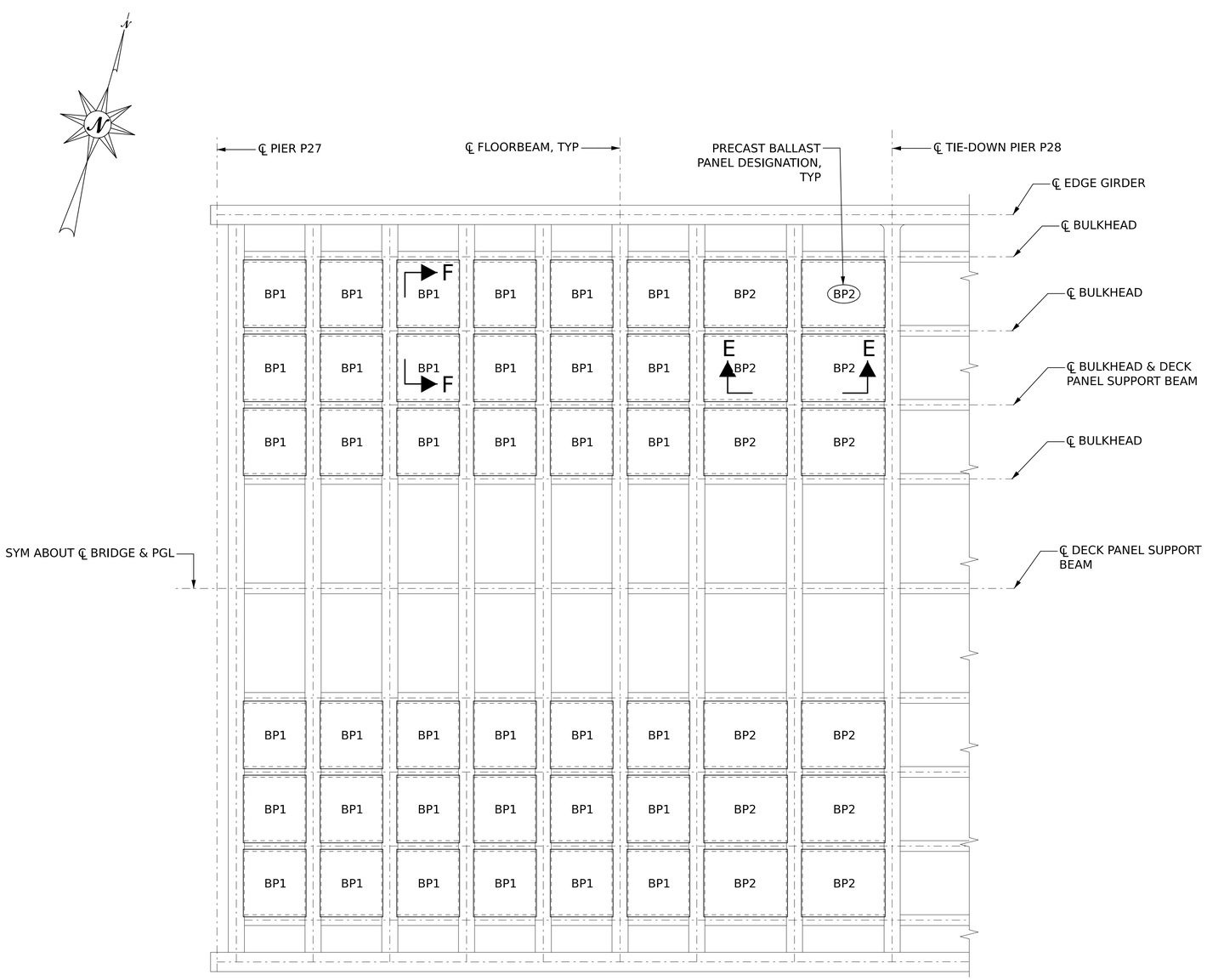
3/14/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40811

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

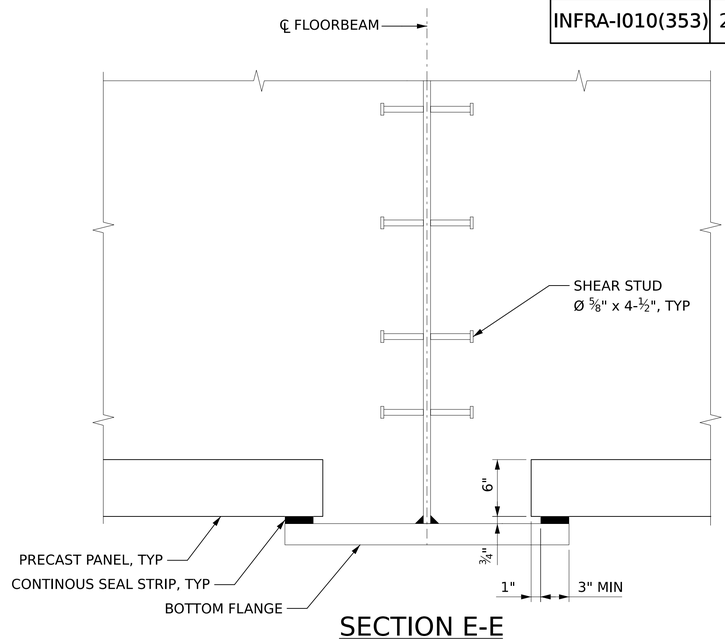
SHEET REFERENCE 0 1" 2"



BALLAST PRECAST PANEL LAYOUT

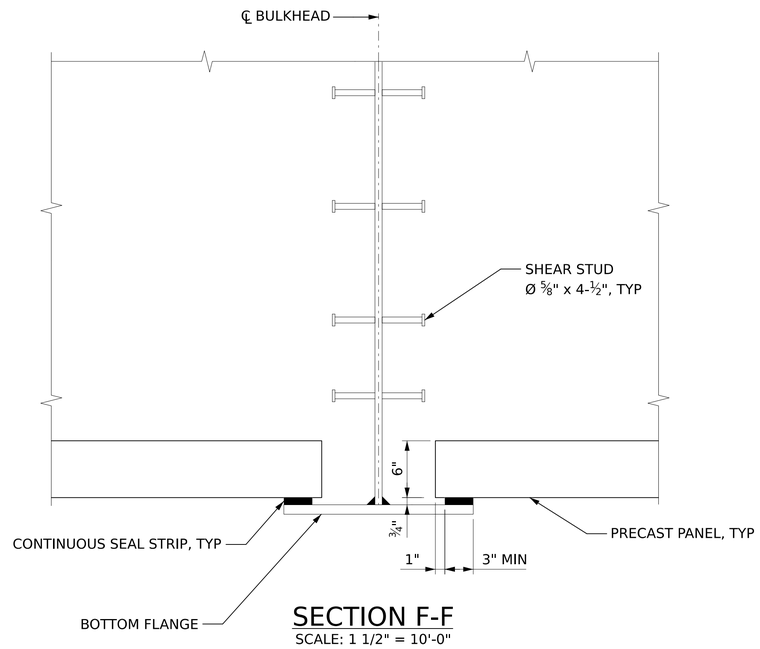
SCALE: 1" = 10'-0"

(SHOWING LAYOUT AT PIER P27, LAYOUT AT PIER P32 SIMILAR)



SECTION E-E

SCALE: 1 1/2" = 10'-0"



SECTION F-F

SCALE: 1 1/2" = 10'-0"

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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 BALLAST
PANEL LAYOUT

MRB-S04-BR-40811.dgn
rweibel
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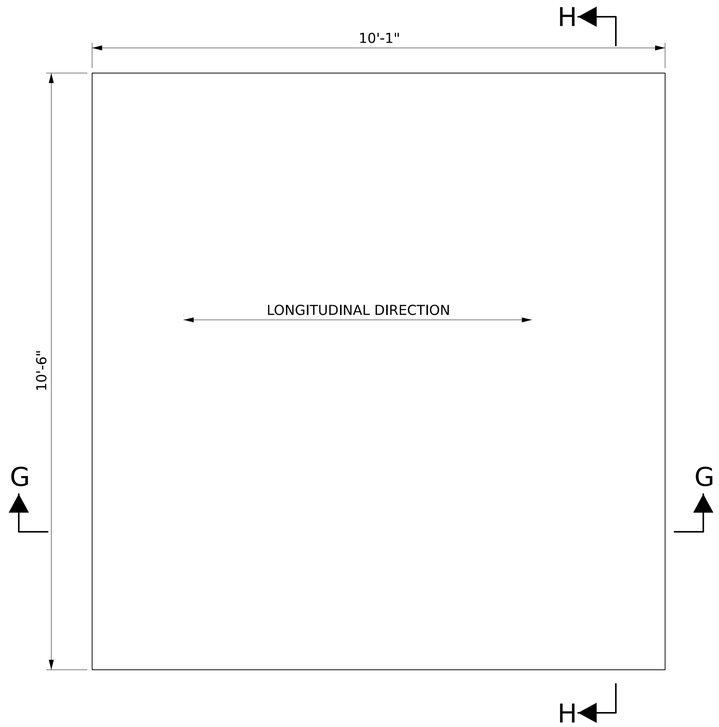
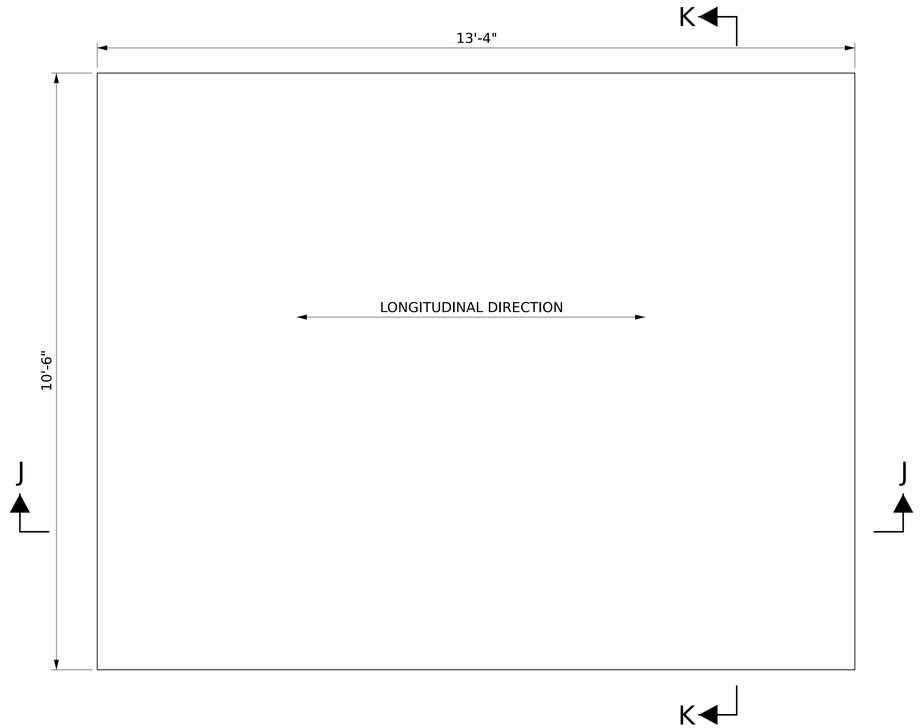
3/14/2025

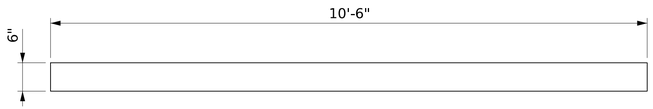
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40812



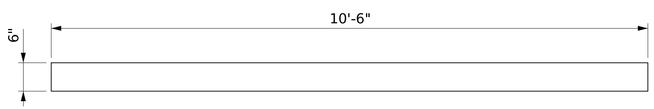
PLAN - PRECAST PANEL BP1
SCALE: 3/4" = 1'-0"



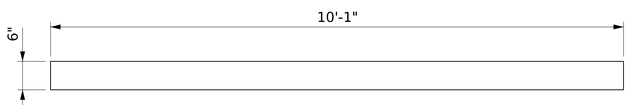
PLAN - PRECAST PANEL BP2
SCALE: 3/4" = 1'-0"



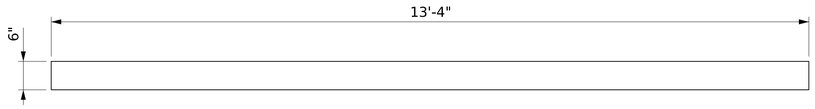
ELEVATION H-H
SCALE: 3/4" = 1'-0"



ELEVATION K-K
SCALE: 3/4" = 1'-0"



ELEVATION G-G
SCALE: 3/4" = 1'-0"



ELEVATION J-J
SCALE: 3/4" = 1'-0"

PRELIMINARY
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ALABAMA DEPARTMENT OF TRANSPORTATION

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BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 BALLAST
PANEL DIMENSIONS

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rweibel
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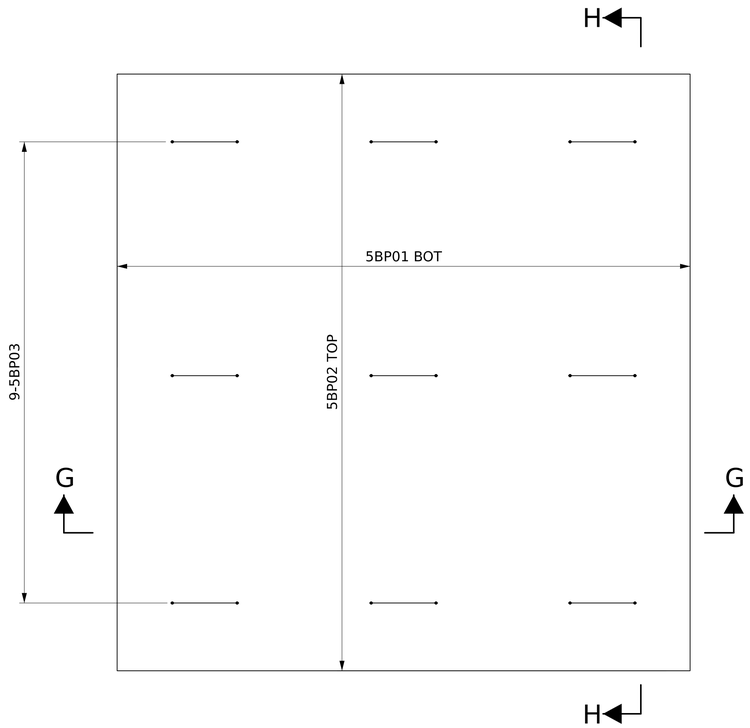
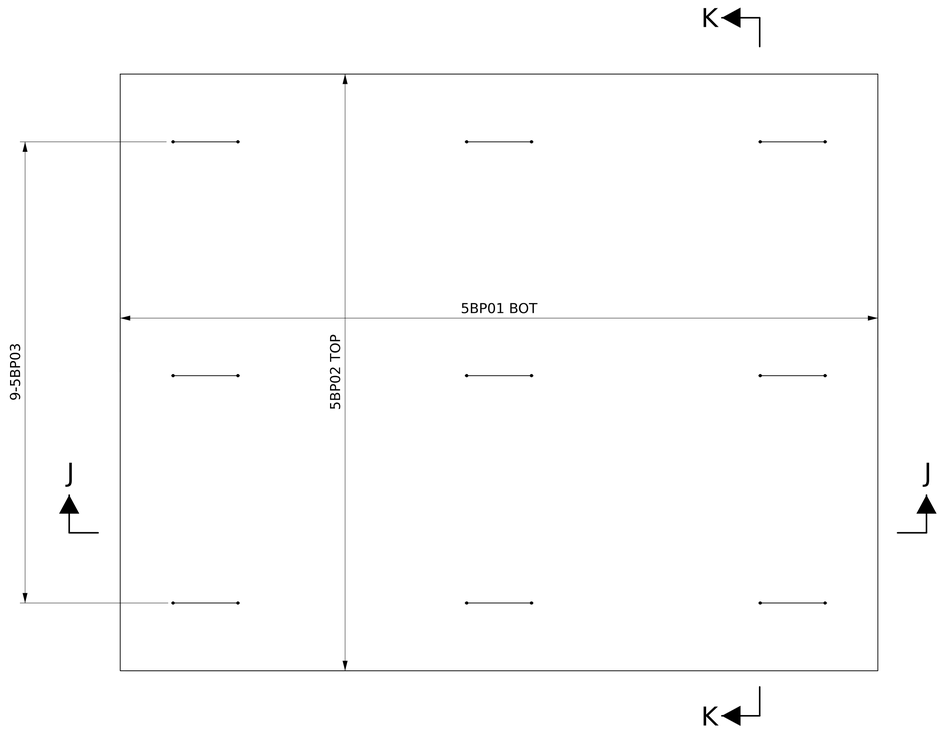
3/14/2025

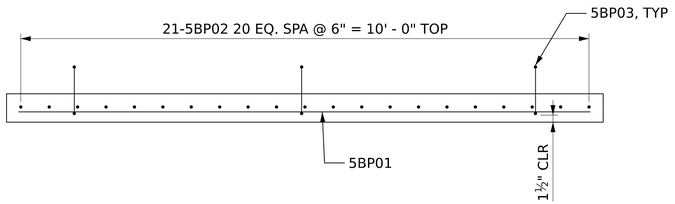
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40813



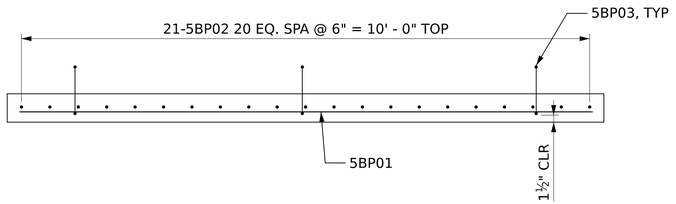
PLAN - PRECAST PANEL BP1
SCALE: 3/4" = 1'-0"



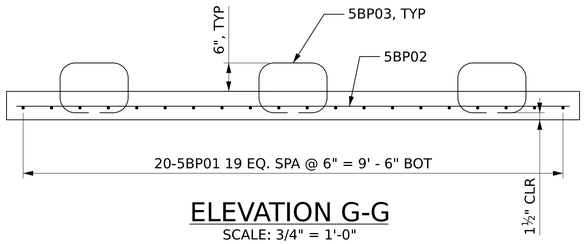
PLAN - PRECAST PANEL BP2
SCALE: 3/4" = 1'-0"



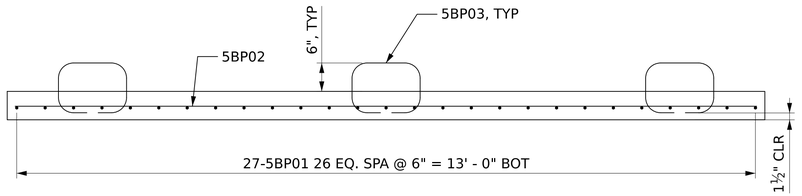
ELEVATION H-H
SCALE: 3/4" = 1'-0"



ELEVATION K-K
SCALE: 3/4" = 1'-0"



ELEVATION G-G
SCALE: 3/4" = 1'-0"



ELEVATION J-J
SCALE: 3/4" = 1'-0"

NOTES:

1. WORK THIS DRAWING WITH "PIER P27 & P32 BALLAST PANEL DIMENSIONS" SHEET.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 BALLAST
PANEL REINFORCEMENT

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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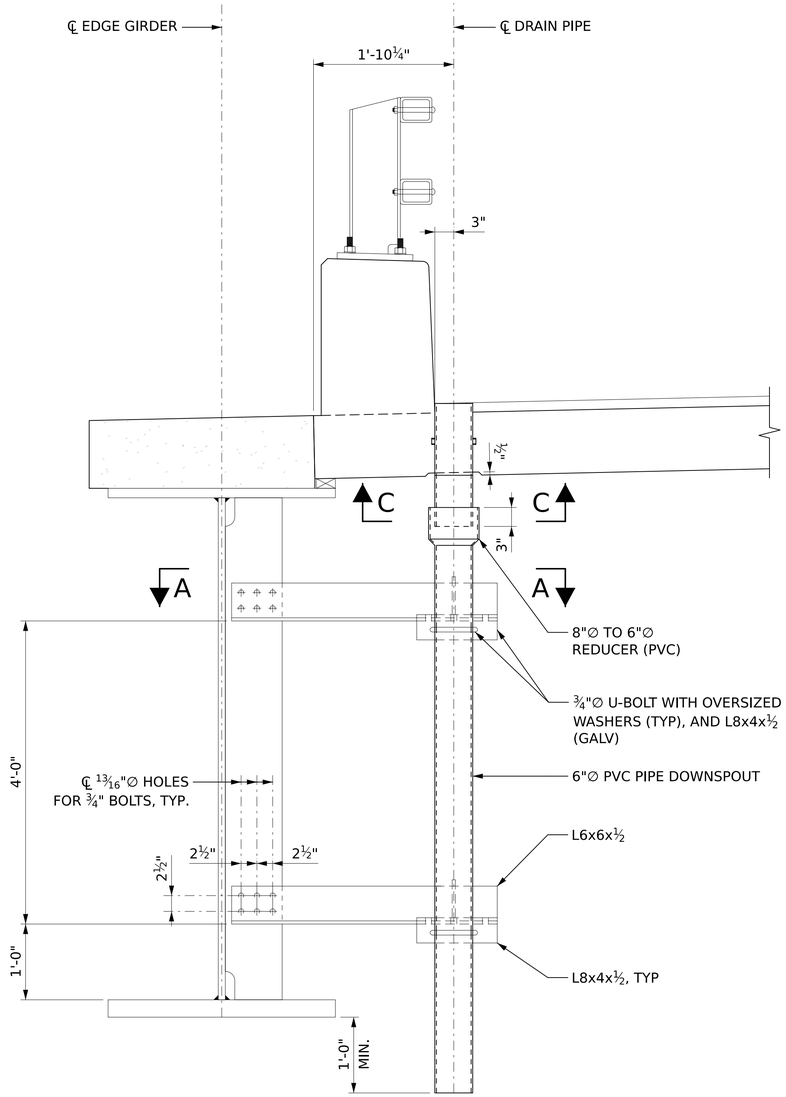
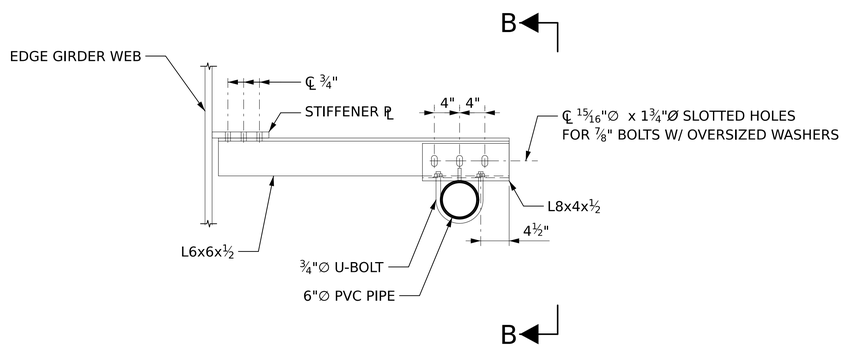
SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40831



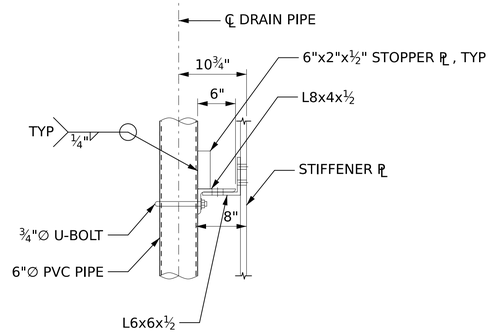
TYPICAL SECTION SHOWING DRAIN AND DOWNSPOUT

SCALE: 1" = 1'-0"



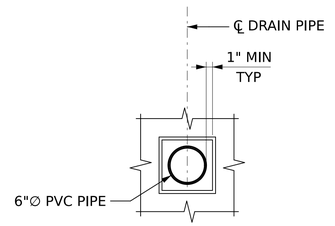
SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"



SECTION C-C

SCALE: 1" = 1'-0"

NOTES:

1. ANGLE AND PLATE STEEL SHALL CONFORM TO A709 GRADE 50W AND BE HOT-DIP GALVANIZED.
2. BOLTS SHALL BE ASTM A325 TYPE 3.
3. GALVANIZED SURFACES TO BE PAINTED TO MATCH TYPICAL STEEL TOP COAT FINISH.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

DRAINAGE SCUPPER

DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40831.dgn

nweibel

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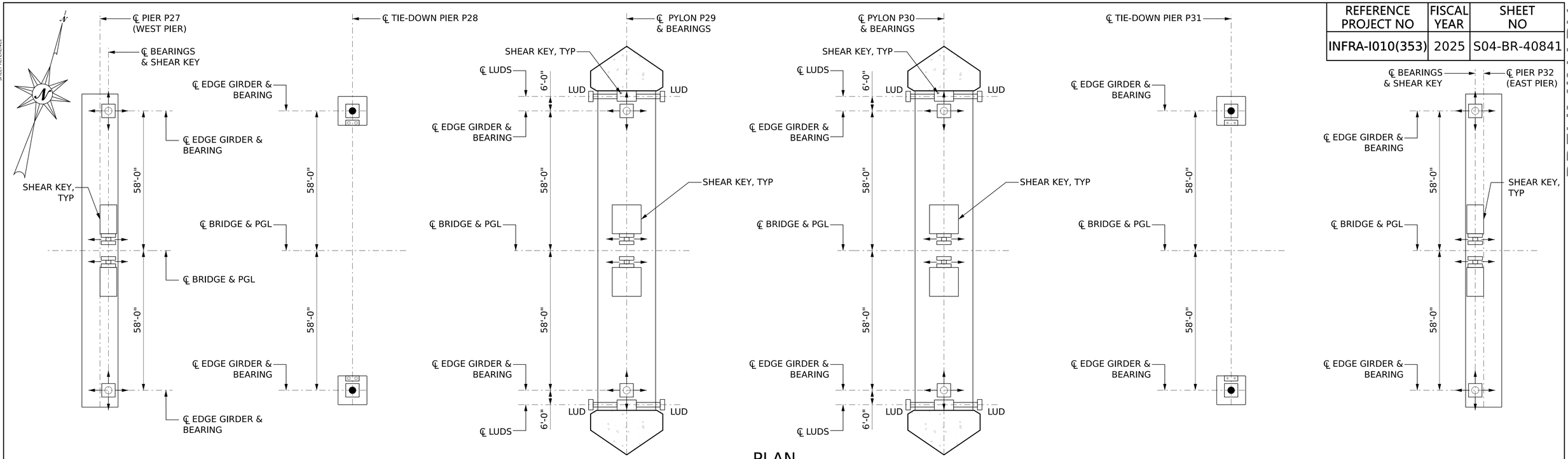
3/14/2025

SHEET REFERENCE 0 1" 2"



PLAN

SCALE: 1" = 20'-0"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40841

PRELIMINARY
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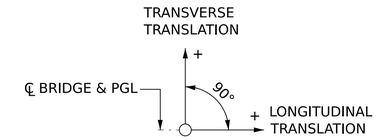
DISC BEARING FORCE AND MOVEMENT SCHEDULE

LOADS AND MOVEMENTS BY CASE			PIER P27			PIER P28		PIER P29			PIER P30			PIER P31		PIER P32		
			NORTH	CENTER	SOUTH	NORTH	SOUTH	NORTH	CENTER	SOUTH	NORTH	CENTER	SOUTH	NORTH	SOUTH	NORTH	CENTER	SOUTH
QUANTITY / DISC TYPE		QUANTITY	1	2	1	1	1	1	2	1	1	2	1	1	1	1	2	1
		MOVEMENT TYPE	FREE	FREE	FREE	FIXED	FIXED	FREE	FREE	FREE	FREE	FREE	FREE	FIXED	FIXED	FREE	FREE	FREE
DISC BEARING FORCES (KIPS)	DEAD LOAD EOC (END OF CONSTRUCTION)	VERTICAL	1028	-	1028	2294	2294	807	-	807	807	-	807	2296	2295	1030	-	1030
		TRANSVERSE	-	0	-	34	-34	-	0	-	-	0	-	34	-34	-	0	-
		LONGITUDINAL	-	-	-	-37	-38	-	-	-	-	-	-	37	38	-	-	-
	DEAD LOAD DAY 10000	VERTICAL	1027	-	1028	2336	2335	856	-	856	856	-	856	2337	2336	1030	-	1030
		TRANSVERSE	-	-1	-	35	-34	-	1	-	-	1	-	34	-34	-	-1	-
		LONGITUDINAL	-	-	-	24	24	-	-	-	-	-	-	-25	-25	-	-	-
	SERVICE	VERTICAL MAX	1504	-	1504	3534	3545	1612	-	1612	1611	-	1611	3571	3592	1481	-	1481
		VERTICAL MIN	650	-	637	1271	1270	657	-	631	640	-	619	1273	1273	653	-	634
		TRANSVERSE (ABS VAL MAX)	-	247	-	53	62	-	769	-	-	759	-	54	59	-	236	-
		LONGITUDINAL (ABS VAL MAX)	-	-	-	298	293	-	-	-	-	-	-	300	296	-	-	-
	STRENGTH	VERTICAL MAX	1993	-	1993	4717	4799	2180	-	2180	2179	-	2179	5025	5196	1960	-	1960
		VERTICAL MIN	346	-	320	391	118	297	-	74	153	-	-24	593	177	349	-	270
		TRANSVERSE (ABS VAL MAX)	-	1593	-	130	211	-	2969	-	-	2890	-	135	181	-	1522	-
		LONGITUDINAL (ABS VAL MAX)	-	-	-	318	319	-	-	-	-	-	-	321	321	-	-	-
	EXTREME	VERTICAL MAX	2537	-	2538	4170	4171	2293	-	2293	2293	-	2293	4170	4171	2524	-	2199
		VERTICAL MIN	531	-	533	1434	1433	730	-	730	730	-	730	1489	1436	534	-	536
		TRANSVERSE (ABS VAL MAX)	-	114	-	45	44	-	728	-	-	726	-	44	43	-	110	-
		LONGITUDINAL (ABS VAL MAX)	-	-	-	129	130	-	-	-	-	-	-	130	130	-	-	-
LONGITUDINAL MOVEMENT (IN)	DEAD LOAD EOC	LONGITUDINAL	-1.0	-1.0	-1.0	0.0	0.0	-1.6	-1.6	-1.6	1.6	1.6	1.6	0.0	0.0	1.0	1.0	1.0
	DEAD LOAD DAY 10000	LONGITUDINAL	1.4	1.4	1.4	0.0	0.0	-1.0	-1.0	-1.0	1.0	1.0	1.0	0.0	0.0	-1.4	-1.4	-1.4
	SERVICE MAX	LONGITUDINAL	11.7	11.7	11.7	0.0	0.0	5.9	5.9	5.9	11.8	11.9	11.8	0.0	0.0	11.0	11.0	11.0
	SERVICE MIN	LONGITUDINAL	-11.1	-11.0	-11.0	0.0	0.0	-11.9	-11.9	-11.9	-5.9	-5.9	-5.9	0.0	0.0	-11.7	-11.7	-11.7
	STRENGTH MAX	LONGITUDINAL	15.3	15.9	16.7	0.0	0.0	8.1	8.1	8.2	15.1	15.2	15.1	0.0	0.0	15.7	15.2	14.6
	STRENGTH MIN	LONGITUDINAL	-16.5	-16.0	-15.4	0.0	0.0	-15.1	-15.2	-15.1	-8.2	-8.1	-8.2	0.0	0.0	-14.5	-14.9	-15.4
ROTATION, RADIANS (x10^-3, ABS VAL MAX)	SERVICE	ABOUT BRIDGE LONGIT. AXIS	4.5	0.3	4.3	14.9	14.6	2.9	1.1	2.7	2.9	1.1	2.7	14.8	14.5	4.5	0.3	4.3
	SERVICE	ABOUT BRIDGE TRANS. AXIS	3.8	4.3	3.8	9.4	9.5	6.3	6.6	6.3	6.3	6.6	6.3	9.1	9.3	3.6	4.1	3.6
	SERVICE	ABOUT BRIDGE VERT AXIS	0.3	0.2	0.2	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.3	0.2	0.2
	STRENGTH	ABOUT BRIDGE LONGIT. AXIS	6.5	1.8	5.7	22.0	19.2	5.6	4.5	3.6	5.6	4.4	3.6	21.6	19.1	6.5	1.7	5.7
	STRENGTH	ABOUT BRIDGE TRANS. AXIS	7.0	8.0	7.3	14.9	16.6	8.2	8.5	8.2	8.2	8.6	8.2	12.6	14.3	4.8	5.6	4.9
	STRENGTH	ABOUT BRIDGE VERT AXIS	1.5	1.3	1.4	2.3	1.1	1.0	1.0	1.0	1.1	1.1	1.1	2.2	1.1	1.5	1.3	1.4



LEGEND:

- VERTICAL-ONLY DISC BEARING
- TRANSVERSE DISC BEARING (VERTICAL DISC ORIENTATION)
- FIXED DISC BEARING (LONGITUDINAL AND TRANSVERSE)
- DIRECTION OF FREE MOVEMENT
- LONGITUDINAL LOCK-UP DEVICE (LUD, 2 EACH LOCATION)
- TIE-DOWN CABLES

NOTES:

1. POSITIVE VERTICAL LOADS DENOTE DISC COMPRESSION. VERTICAL LOADS AT P28 AND P31 INCLUDE COMPRESSION FROM THE STRESSING OF THE TIE-DOWN CABLES.
2. LONGITUDINAL LOADS AT PYLONS P29 AND P30 DO NOT INCLUDE RESTRAINT FORCES FROM LOCK-UP DEVICES (LUD'S). THESE ARE PROVIDED SEPARATELY IN "LUD RESTRAINT - DETAILS" SHEET.
3. STRENGTH LOAD COMBINATION FORCE AND MOVEMENT DEMANDS INCLUDE AN OPERATIONAL IMPORTANCE FACTOR = 1.05 (1/1.05 FOR MINIMUM FORCES AND MOVEMENTS).
4. ROTATIONAL DEMANDS DO NOT INCLUDE TOLERANCE FOR FABRICATION AND INSTALLATION. ADDITIONAL ROTATION FROM THESE EFFECTS SHOULD NOT BE TAKEN LESS THAN 0.005 RADIANS.
5. BEARINGS AT P28 AND P31 ARE FIXED, ALL OTHERS ARE NON-GUIDED.
6. MINIMUM LATERAL LOAD FOR BEARING DESIGN IS 10% OF NORMAL LOAD, BUT NOT LESS THAN LOADS IN TABLE FOR FIXED BEARINGS.
7. BEARINGS SHOWN IN PLAN DETAILS ARE SCHEMATIC. ACTUAL DIMENSION SHALL BE PROVIDED BY SUPPLIER, BASED OF THE LOADS AND DEFORMATIONS PROVIDED.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
BEARING & RESTRAINT
LAYOUT

MRB-S04-BR-40841.dgn
rweibel
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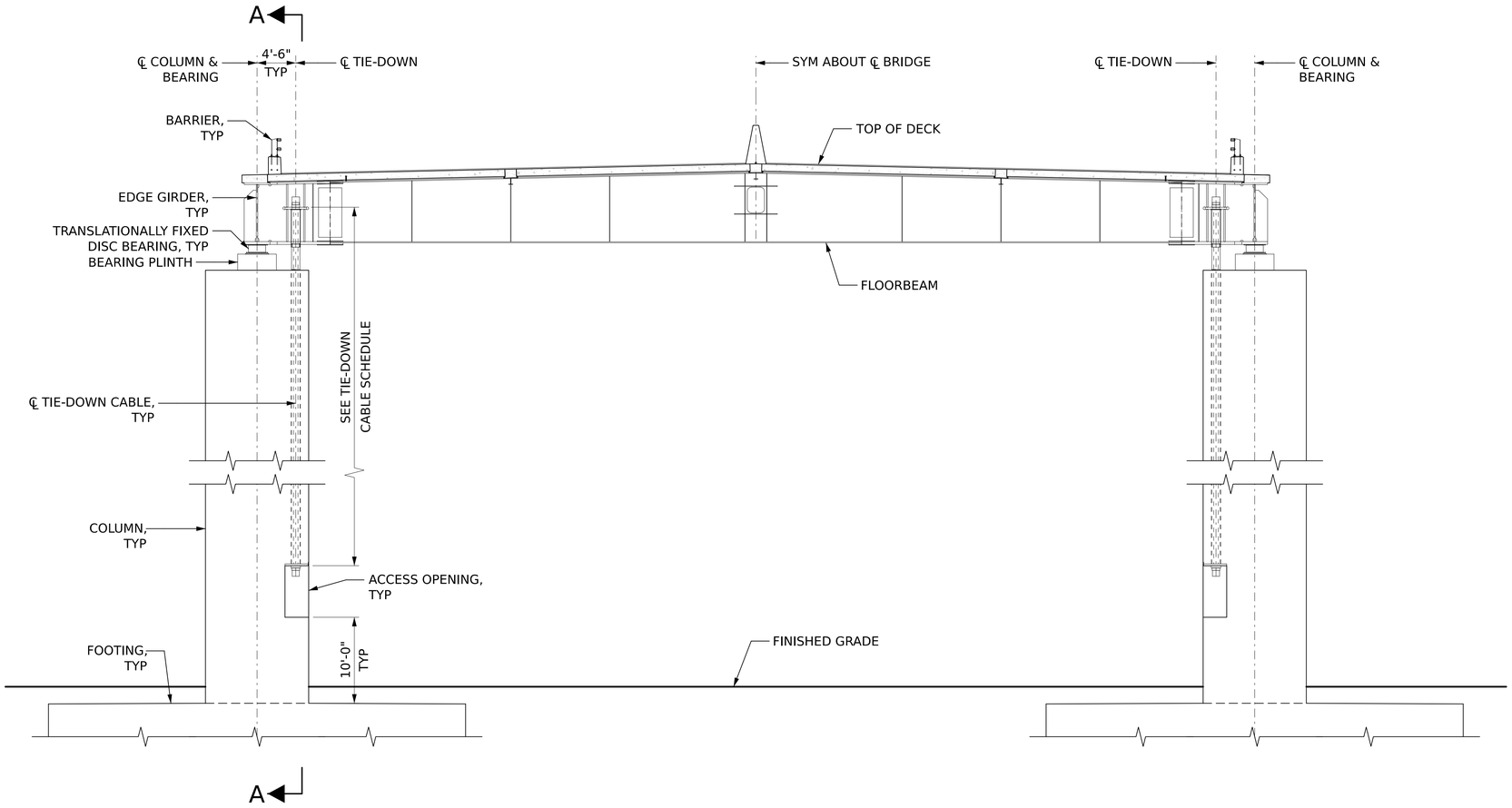
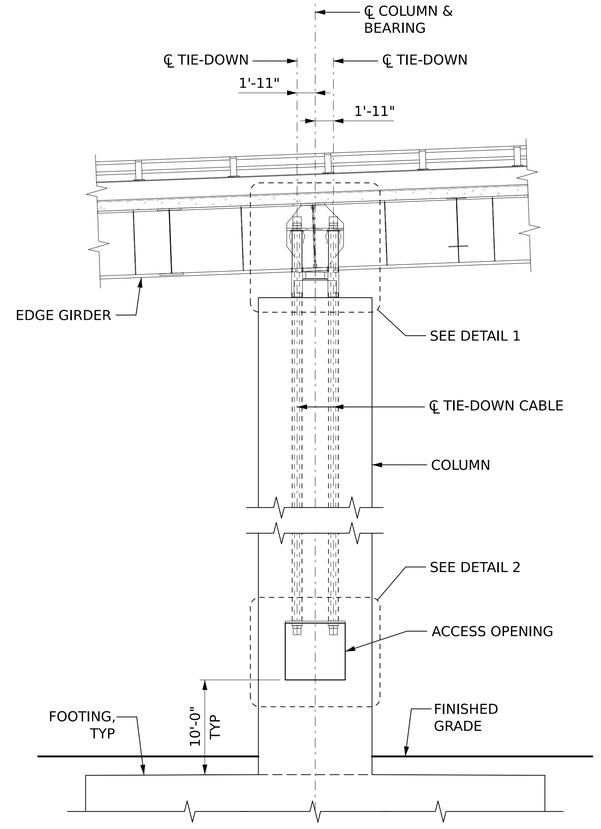
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40844



TRANSVERSE ELEVATION

SCALE: 1/8" = 1'-0"
(LOOKING UPSTATION)



SECTION A-A

SCALE: 1/8" = 1'-0"

TIE-DOWN CABLE SCHEDULE

PIER - COLUMN	DOWNSTATION / UPSTATION CABLE	NUMBER OF STRANDS	STEEL $_2$ AREA (IN2)	ANCHOR SIZE	GUIDE PIPE O.D. (IN)	CABLE LENGTH (FT)	DEAD LOADS (KIPS)			LIVE LOAD W/ IMPACT (KIPS, UNFACTORED)			WIND ON STRUCTURE (KIPS, 1400 YR, LF = 1.0)		THERMAL (KIPS, UNFACTORED)		LOAD COMBINATIONS (KIPS)			
							EOC	CR + SH	DAY 10000	MAX	MIN	FATIGUE RANGE	MAX	MIN	MAX	MIN	SERVICE	STRENGTH MAX	STRENGTH MIN	EXTREME 1 STAY LOSS
P28 - NORTH	DOWNSTATION	24	5.592	27	11.75	186.2	499	-1	498	9	-10	0	15	-17	12	-21	523	678	398	581
P28 - NORTH	UPSTATION	24	5.592	27	11.75	186.2	500	0	499	12	-14	0	25	-29	13	-22	528	688	382	583
P28 - SOUTH	DOWNSTATION	24	5.592	27	11.75	186.2	499	-1	498	9	-10	0	23	-11	12	-21	523	686	398	581
P28 - SOUTH	UPSTATION	24	5.592	27	11.75	186.2	500	0	499	12	-14	0	36	-25	13	-22	529	700	385	583
P31 - NORTH	DOWNSTATION	24	5.592	27	11.75	183.4	499	0	499	12	-14	0	18	-34	13	-22	528	684	376	583
P31 - NORTH	UPSTATION	24	5.592	27	11.75	183.4	499	-1	498	9	-10	0	11	-23	12	-21	523	678	391	581
P31 - SOUTH	DOWNSTATION	24	5.592	27	11.75	183.4	499	0	499	12	-14	0	32	-29	13	-22	528	695	381	583
P31 - SOUTH	UPSTATION	24	5.592	27	11.75	183.4	499	-1	498	9	-10	0	18	-15	12	-21	523	680	397	581

NOTES:

1. NUMBER OF STRANDS SHOWN IN TABLE INCLUDES (2) ADDITIONAL REFERENCE STRANDS PER CABLE. CABLE DESIGN CAPACITIES DO NOT CONSIDER THESE STRANDS.
2. STRENGTH LOAD COMBINATION DEMANDS INCLUDE AN OPERATIONAL IMPORTANCE FACTOR = 1.05 (1/1.05 FOR MINIMUM DEMANDS).
3. CABLE SIZES ARE BASED ON USING 0.62 IN STRAND (A = 0.233 SQ IN) AND STANDARD ANCHORAGE AND GUIDE PIPE SIZES.
4. CABLE LENGTHS ARE STRESSED LENGTHS TAKEN BETWEEN TOP AND BOTTOM BEARING PLATES, AND DO NOT INCLUDE STRAND TAILS.
5. TIE-DOWN CABLES TO BE INSTALLED USING A MONOSTRAND JACK AT THE LOWER ANCHORAGE, WITH A MAXIMUM 2 STRAND OUT-OF-BALANCE ACROSS THE FLOORBEAM. INSTALLATION FORCE AND SEQUENCE TO BE PROVIDED IN THE ERECTION MANUAL.
6. TIE-DOWN CABLES CAN ACCOMODATE UP TO 3" JACKING VERTICAL MOVEMENT FOR FUTURE BEARING REPLACEMENT.
7. FOR DETAILS 1 AND 2, SEE "PIER P28 & P31 TIE-DOWN - DETAILS 2" SHEET.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P28 & P31 TIE-DOWN
DETAILS 1

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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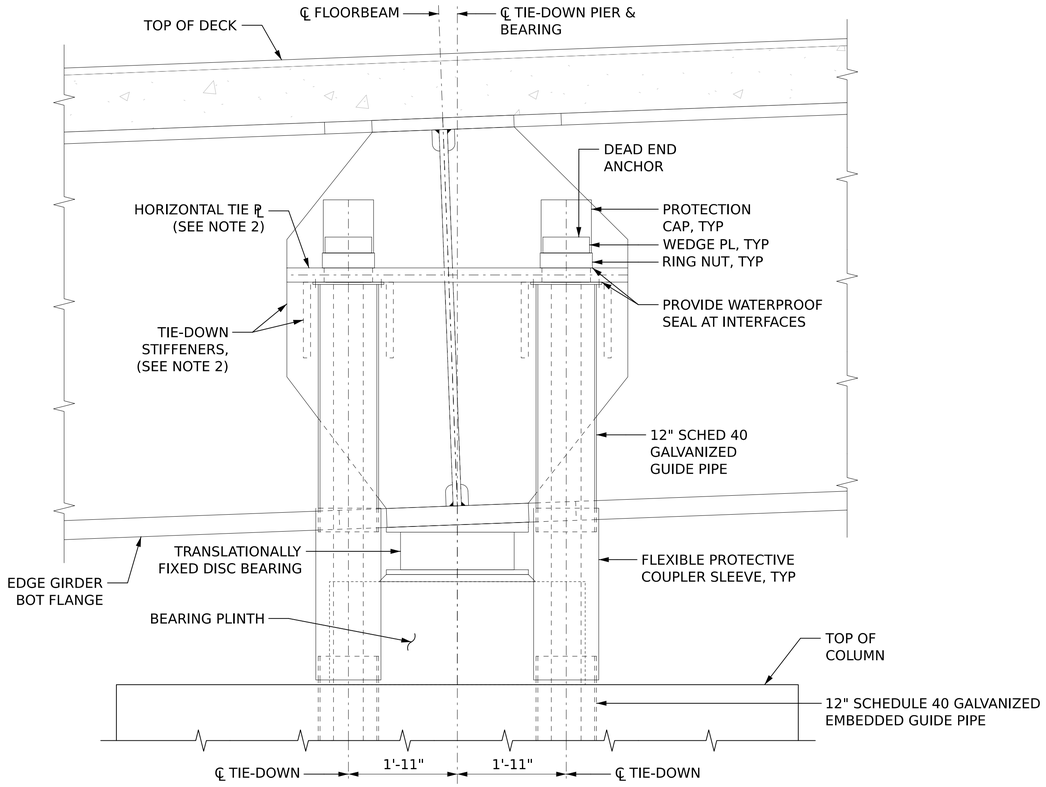
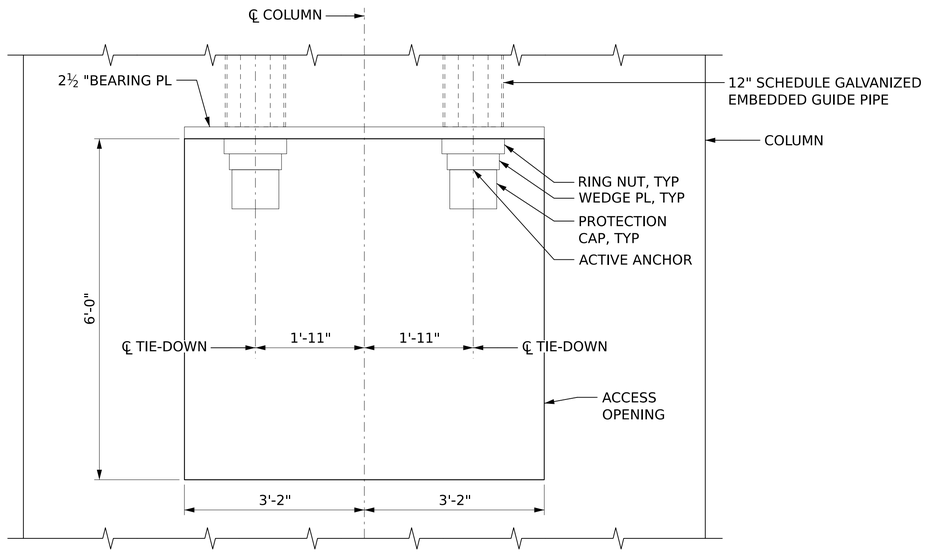
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40845



DETAIL 1

SCALE: 3/4" = 1'-0"



DETAIL 2

SCALE: 3/4" = 1'-0"

NOTES:

1. WORK THIS DRAWING WITH "PIER P28 & P31 TIE-DOWN - DETAILS 1" SHEET.
2. REFER TO DRAWINGS "LONGITUDINAL EDGE GIRDER FIELD SECTION TYPE 2 - DETAILS 1" AND "LONGITUDINAL EDGE GIRDER FIELD SECTION TYPE 2 - DETAILS 2" FOR TIE-DOWN BRACKET STEEL DETAILS.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PIER P28 & P31 TIE-DOWN

DETAILS 2

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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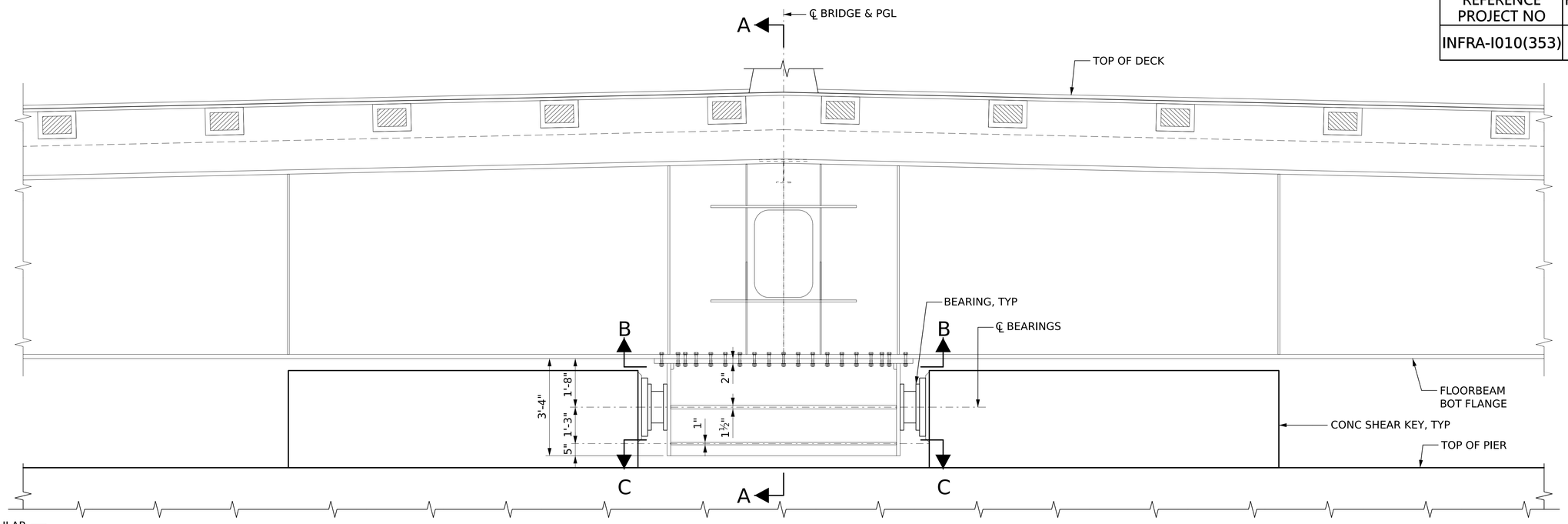
3/14/2025

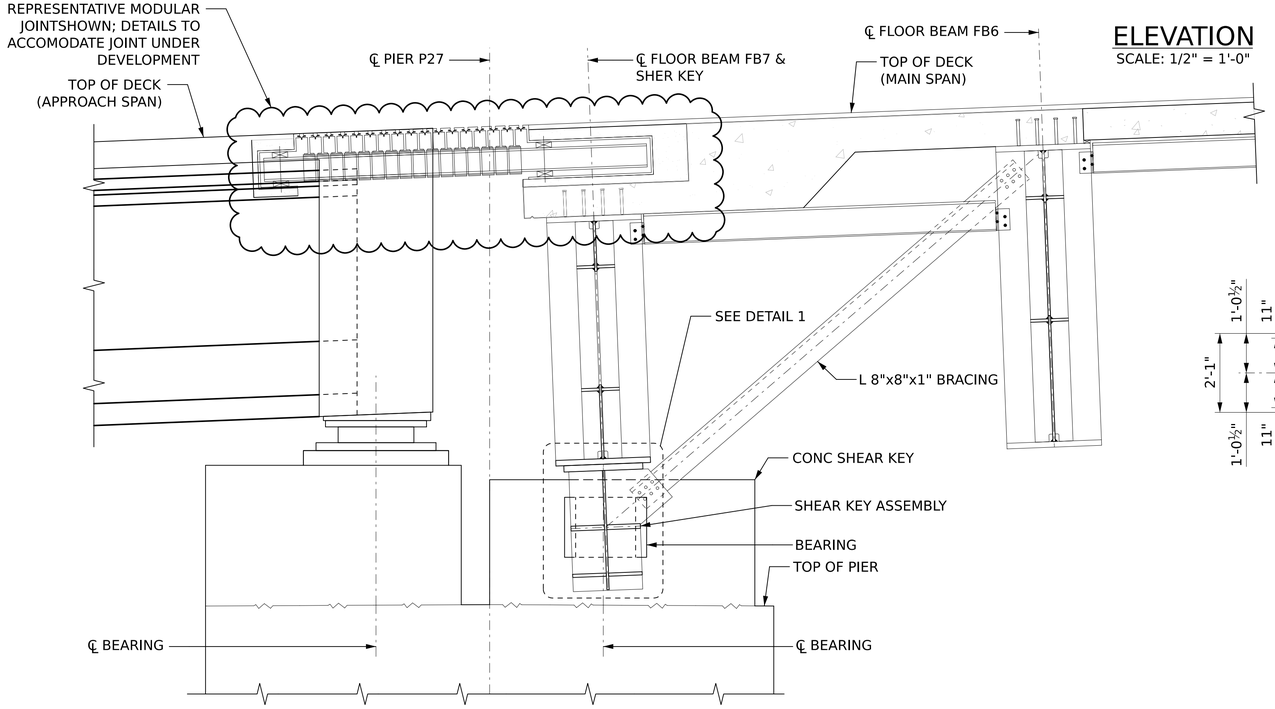
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40861

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

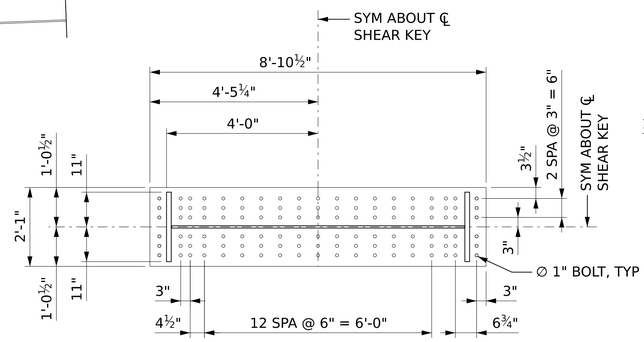
SHEET REFERENCE 0 1" 2"



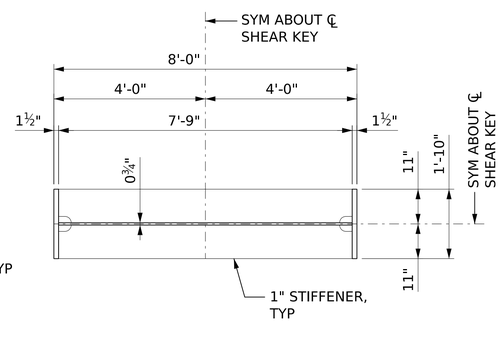
ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"
(SHEAR KEY AT PIER P27 SHOWN, SHEAR KEY AT PIER P32 SIMILAR)



SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

NOTES:

1. DISC BEARINGS ARE SCHEMATIC; DETAILS TO COME FROM THE SUPPLIER.
2. DISC BEARINGS TO BE DESIGNED TO ACCOMODATE THE FORCES AND MOVEMENTS PROVIDED IN THE SHEET S04-BR-40841.

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PIER P27 & P32 TRANSV. SHEAR KEY DETAILS

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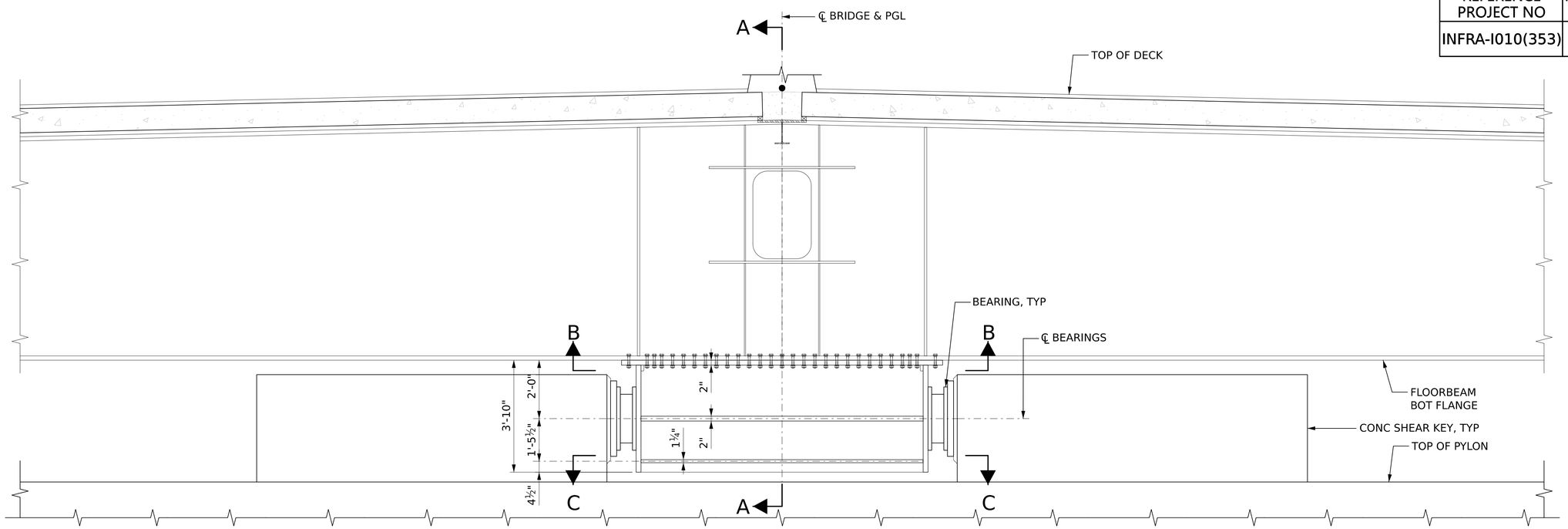
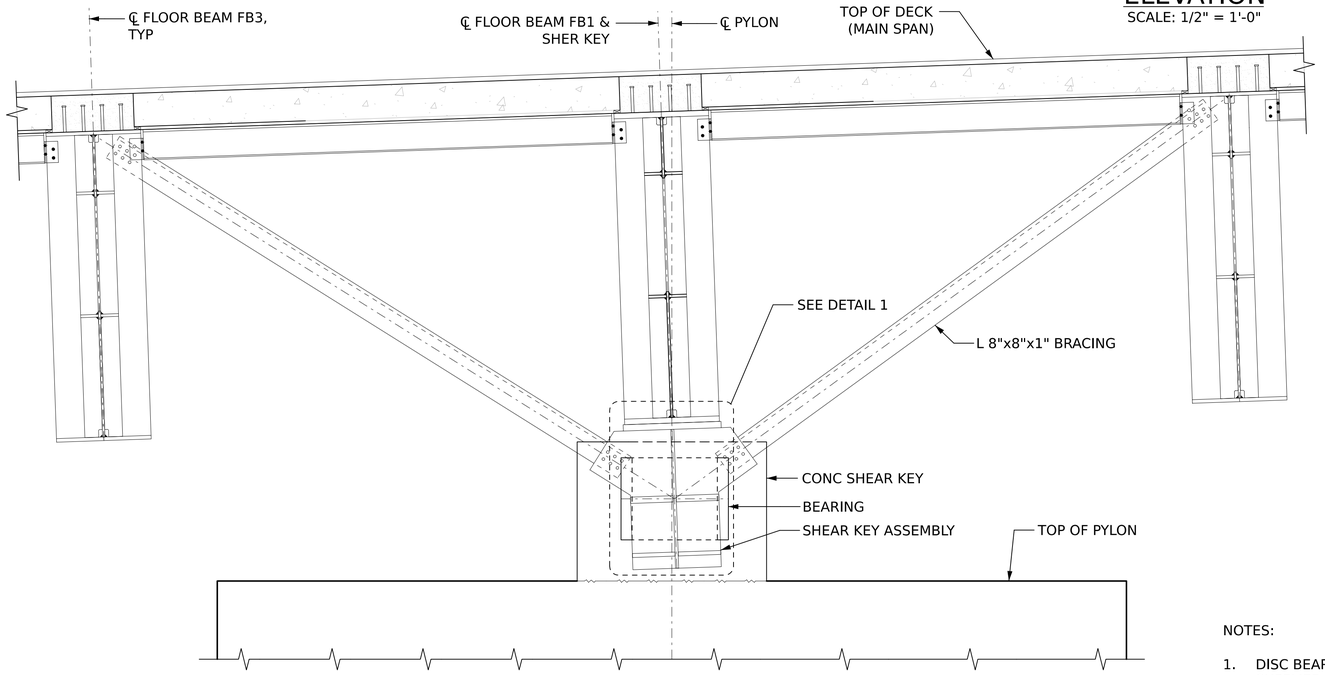
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40862

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

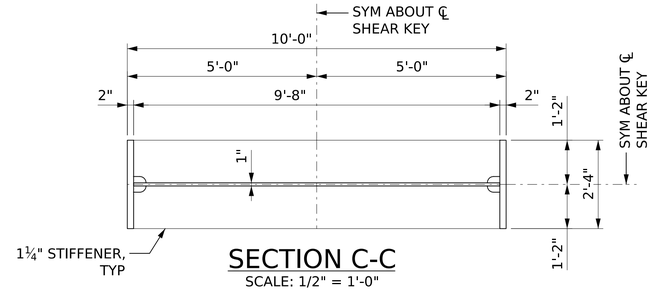
2" 1" 0 SHEET REFERENCE



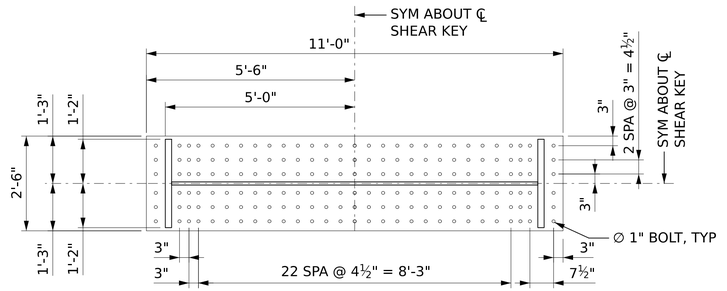
ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"
(SHEAR KEY AT PYLON P29 SHOWN, SHEAR KEY AT PYLON P30 SIMILAR)



SECTION C-C
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

1. DISC BEARINGS ARE SCHEMATIC; DETAILS TO COME FROM THE SUPPLIER.
2. DISC BEARINGS TO BE DESIGNED TO ACCOMODATE THE FORCES AND MOVEMENTS PROVIDED IN THE SHEET S04-BR-40841.

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ACCEPTED BY
BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE
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Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

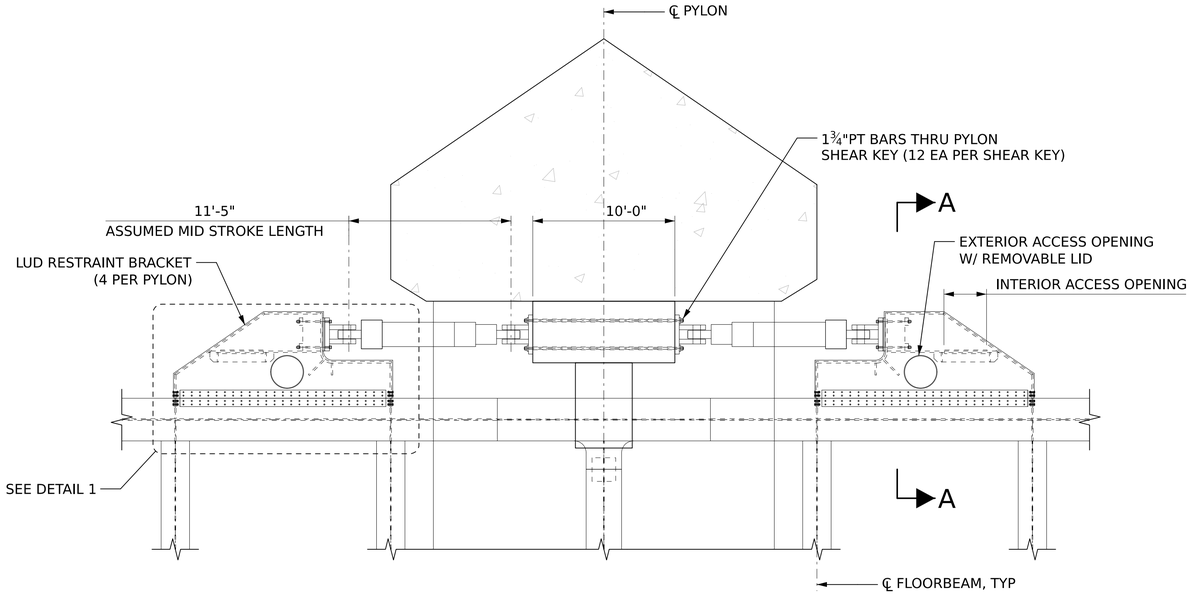
DESIGNER: B. TETZLAFF DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30 TRANSV. SHEAR KEY DETAILS

MRB-S04-BR-40862.dgn
rweibel
12:11:57 PM
3/14/2025

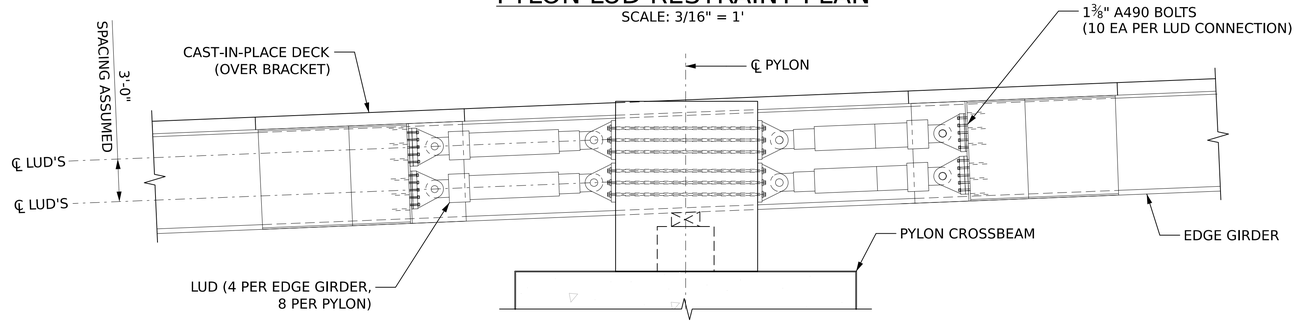
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40863

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



PYLON LUD RESTRAINT PLAN

SCALE: 3/16" = 1'

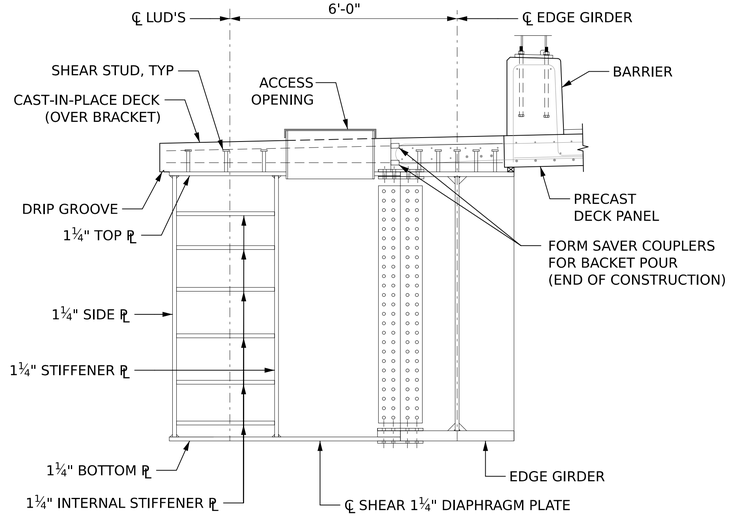


PYLON LUD RESTRAINT ELEVATION

SCALE: 3/16" = 1'
(SHOWN AT ℄ LUD'S, LOOKING TOWARDS ℄ BRIDGE,
DECK NOT SHOWN FOR CLARITY)

LUD FORCE AND MOVEMENT SCHEDULE

PIER	EDGE GIRDER / LOCATION	UPPER/ LOWER LUD	SERVICE LOADS (KIPS)		STRENGTH LOADS (KIPS)		EXTREME LOADS (KIPS)		SERVICE MOVEMENTS (IN)		STRENGTH MOVEMENTS (IN)	
			MAX COMPRESSION	MAX TENSION	MAX COMPRESSION	MAX TENSION	MAX COMPRESSION	MAX TENSION	MAX SHORTENING	MAX ELONGATION	MAX SHORTENING	MAX ELONGATION
P29	NORTH / DOWNSTATION	LOWER	-82	125	-705	1068	-243	192	-6.0	11.6	-8.2	14.7
P29	NORTH / DOWNSTATION	UPPER	-76	123	-657	1039	-188	191	-5.9	11.4	-8.0	14.4
P29	NORTH / UPSTATION	LOWER	-145	82	-1192	709	-260	190	-11.7	5.6	-14.9	7.8
P29	NORTH / UPSTATION	UPPER	-131	76	-1091	652	-198	193	-11.5	5.4	-14.6	7.6
P29	SOUTH / DOWNSTATION	LOWER	-116	94	-1001	805	-244	245	-6.0	11.6	-8.2	14.7
P29	SOUTH / DOWNSTATION	UPPER	-113	90	-973	756	-246	248	-5.9	11.4	-8.0	14.4
P29	SOUTH / UPSTATION	LOWER	-121	111	-984	955	-260	248	-11.7	5.6	-14.9	7.8
P29	SOUTH / UPSTATION	UPPER	-103	110	-846	951	-257	252	-11.5	5.4	-14.6	7.6
P30	NORTH / DOWNSTATION	LOWER	-96	127	-825	1089	-399	399	-11.6	6.0	-14.7	8.2
P30	NORTH / DOWNSTATION	UPPER	-89	124	-763	1049	-404	406	-11.4	5.9	-14.4	8.0
P30	NORTH / UPSTATION	LOWER	-149	111	-1223	952	-403	396	-5.6	11.7	-7.8	14.9
P30	NORTH / UPSTATION	UPPER	-136	98	-1130	841	-405	400	-5.4	11.5	-7.6	14.6
P30	SOUTH / DOWNSTATION	LOWER	-127	111	-1095	955	-528	529	-11.6	6.0	-14.7	8.2
P30	SOUTH / DOWNSTATION	UPPER	-115	106	-990	895	-532	535	-11.4	5.9	-14.4	8.0
P30	SOUTH / UPSTATION	LOWER	-137	143	-1118	1234	-535	528	-5.6	11.7	-7.8	14.9
P30	SOUTH / UPSTATION	UPPER	-120	130	-996	1119	-538	532	-5.4	11.5	-7.6	14.6



SECTION A-A

SCALE: 1/2" = 1'-0"

NOTES:

1. LUD DETAILS ARE SCHEMATIC; DETAILS TO COME FROM SUPPLIER.
2. LUD'S SHALL BE DESIGNED TO ACCOMMODATE THE FORCES AND MOVEMENTS PROVIDED ON THIS SHEET.
3. ASSUMED LUD CL-CL PIN LENGTH ASSUMED TO BE 11'-5" FOR BRACKET AND FRAMING LAYOUT. THIS DIMENSION SHALL COME FROM THE LUD SUPPLIER, AND COORDINATION WITH DESIGN ENGINEER WILL BE REQUIRED.
4. ASSUMED VERTICAL LUD SPACING IS 3'-0", WHICH LIMITS THE MAXIMUM LUD DIAMETER.
5. ALL LUD RESTRAINT BRACKET STEEL SHALL BE ASTM A709 50W.
6. EXTERIOR SIDES AND BOTTOM SHALL BE ZINC METALLIZED, WITH SEAL AND FINISH COATS. EXTERIOR TOP TO HAVE ZINC PRIMER MIST COAT (TO PREVENT BLEED). INTERIOR SHALL BE PAINTED WITH 2 COAT SYSTEM, STARTING WITH ZINC PRIMER.
7. LUD RESTRAINT BRACKETS TO BE SHOP FIT WITH EDGE GIRDERS PRIOR TO DRILLING FLANGE AND STIFFENER SPLICE BOLTS.
8. FOR DETAIL 1, SEE "PYLON LUD BRACKET DETAILS 2" SHEET.

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

PE STAMP DATE

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KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

PYLON LUD BRACKET

DETAILS 1

MRB-S04-BR-40863.dgn
rweibel
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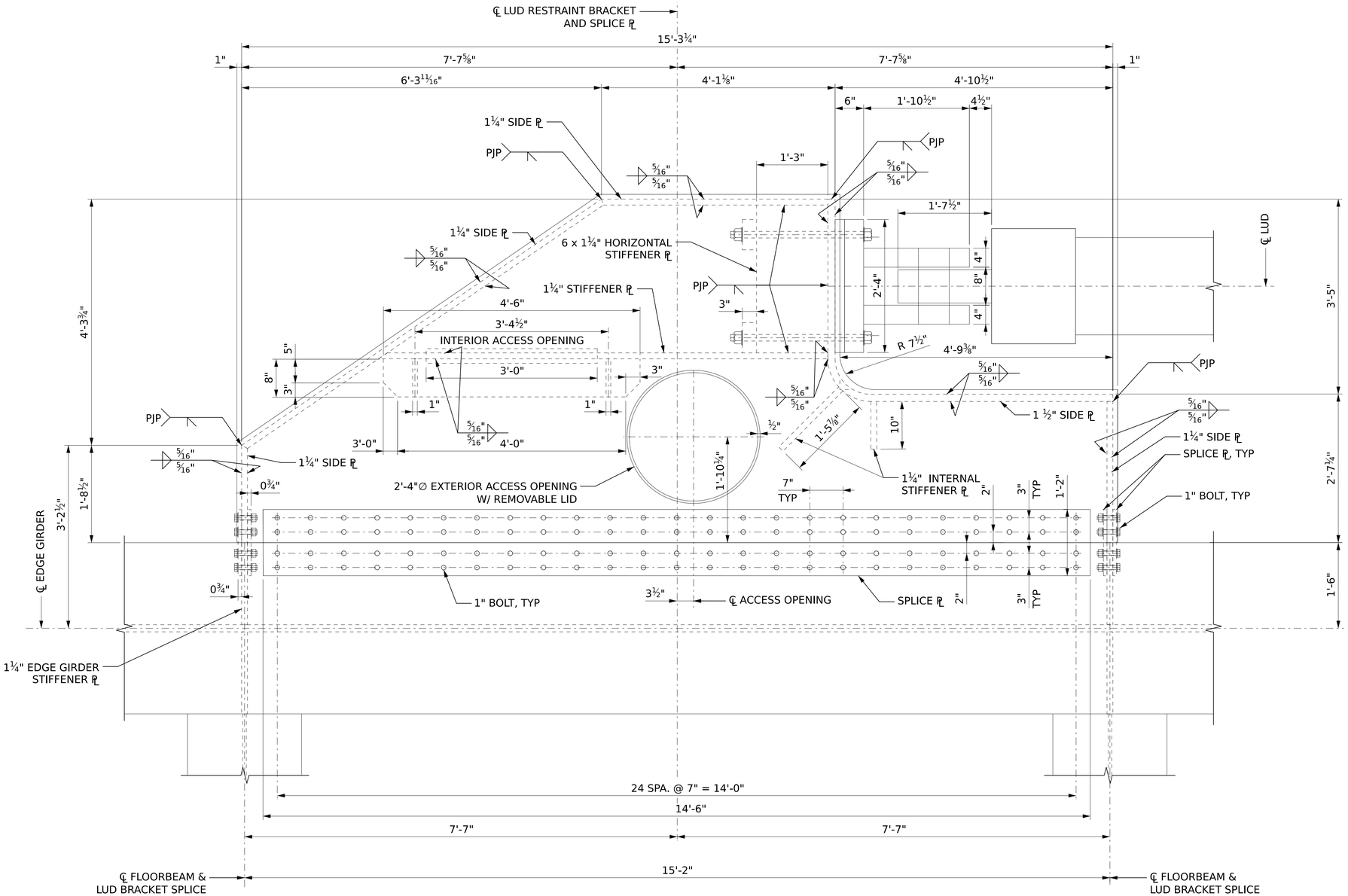
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40864

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



DETAIL 2

SCALE: 1" = 1'-0"

NOTES:

1. FOR NOTES SEE "PYLON LUD BRACKET DETAILS 1" SHEET.
2. DETAILS ON THIS SHEET ARE UNDER DEVELOPMENT.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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A	SIBT	04/04/2025	60% SUBMITTAL

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60%

BIN(S)

COUNTY(S)
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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON LUD BRACKET
DETAILS 2

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nweibel
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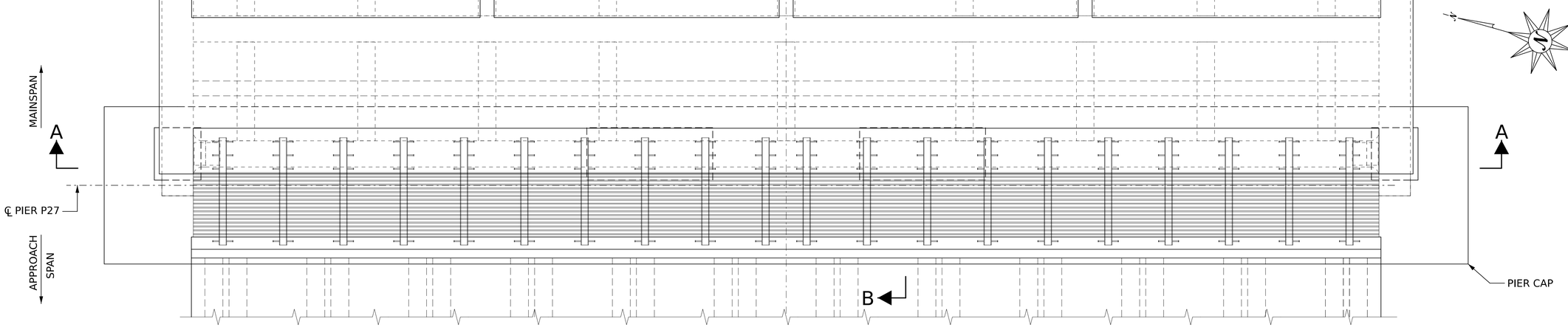
3/14/2025

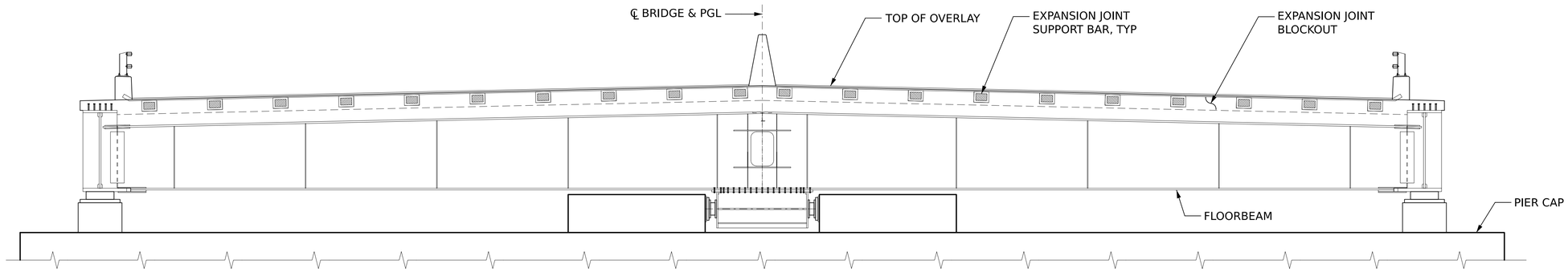
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40883

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



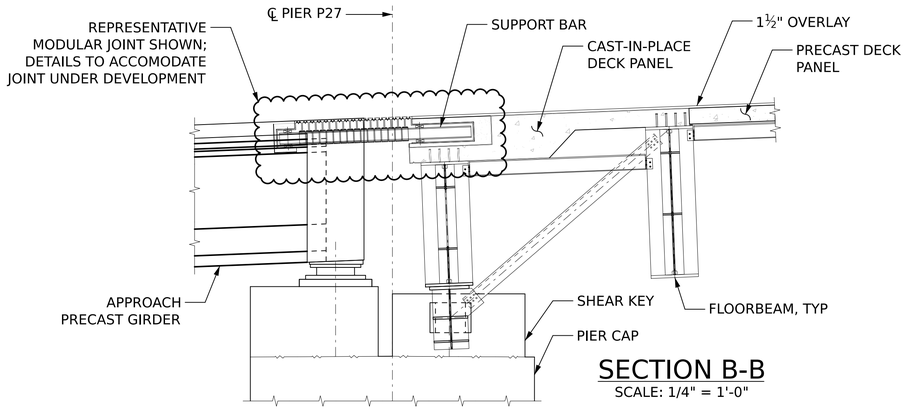
LAYOUT AT PIER P27

SCALE: 1" = 10'-0"
(SHOWING EXPANSION JOINT AT PIER P27, EXPANSION JOINT AT PIER P32 SIMILAR)



SECTION A-A

SCALE: 3/16" = 1'-0"



SECTION B-B

SCALE: 1/4" = 1'-0"

FACTORED MOVEMENT SCHEDULE

PIER	EXP JOINT TYPE	HORIZONTAL MOVEMENT (INCHES) *			VERTICAL ROTATION (RADS)			LATERAL ROTATION (RADS)		
		MIN	MAX	RANGE	MIN	MAX	RANGE	MIN	MAX	RANGE
P27	MODULAR	-20.9	22.7	43.6	-0.0063	0.0033	0.0096	-0.0020	0.0002	0.0022
P32	MODULAR	-22.3	19.7	42.1	-0.0031	0.0065	0.0096	-0.0001	0.0021	0.0022

* POSITIVE HORIZONTAL MOVEMENTS TOWARDS EAST

NOTES:

1. EXPANSION JOINT DETAILS ARE SCHEMATIC; DETAILS TO COME FROM SUPPLIER.
2. DRAWING IS SCHEMATIC AND MEANT TO CONVEY JOINT TYPE AND MOVEMENTS.
3. ASSUMED TEMPERATURE AT TIME OF JOINT INSTALLATION IS 70°F.

THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

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BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
EXPANSION JOINT
DETAILS

MRB-S04-BR-40883.dgn
rweibel
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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40931

PRELIMINARY
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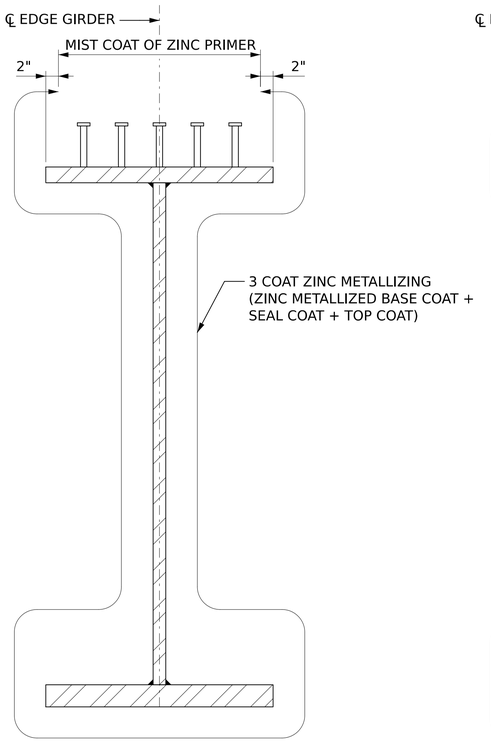
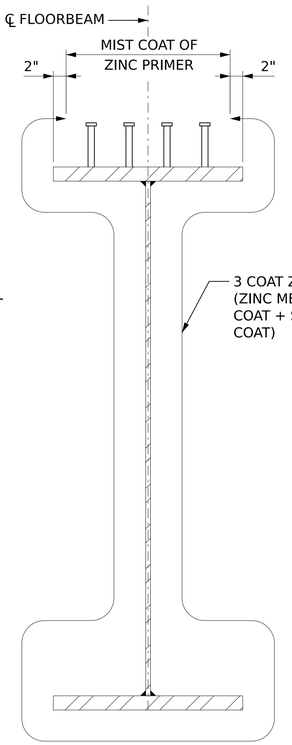
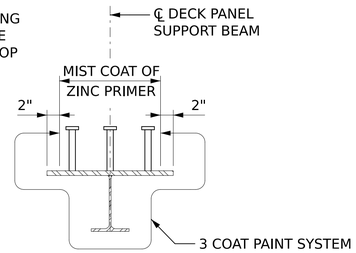
0 1" SHEET REFERENCE 2"



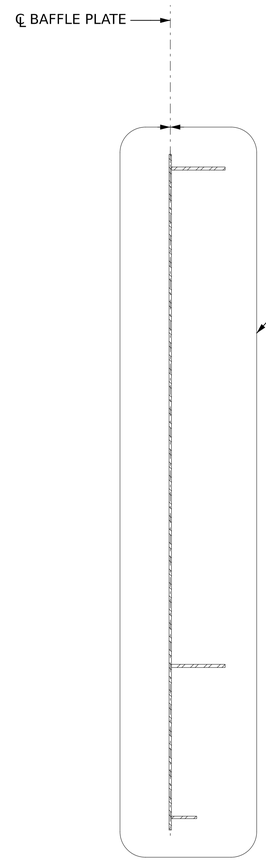
EDGE GIRDER COATING SYSTEM
SCALE: 1" = 1'-0"



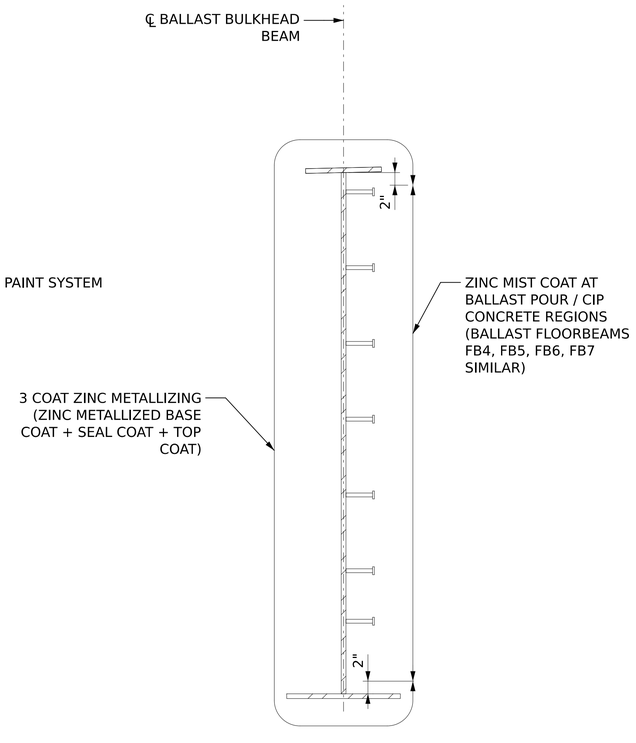
FLOORBEAM COATING SYSTEM
SCALE: 1" = 1'-0"



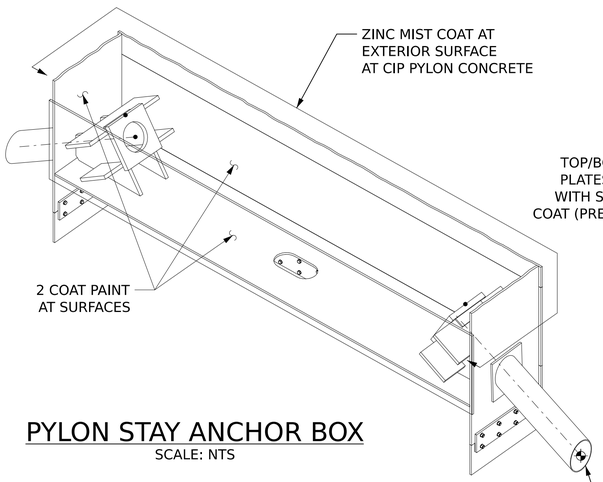
DECK PANEL SUPPORT BEAM
SCALE: 1" = 1'-0"



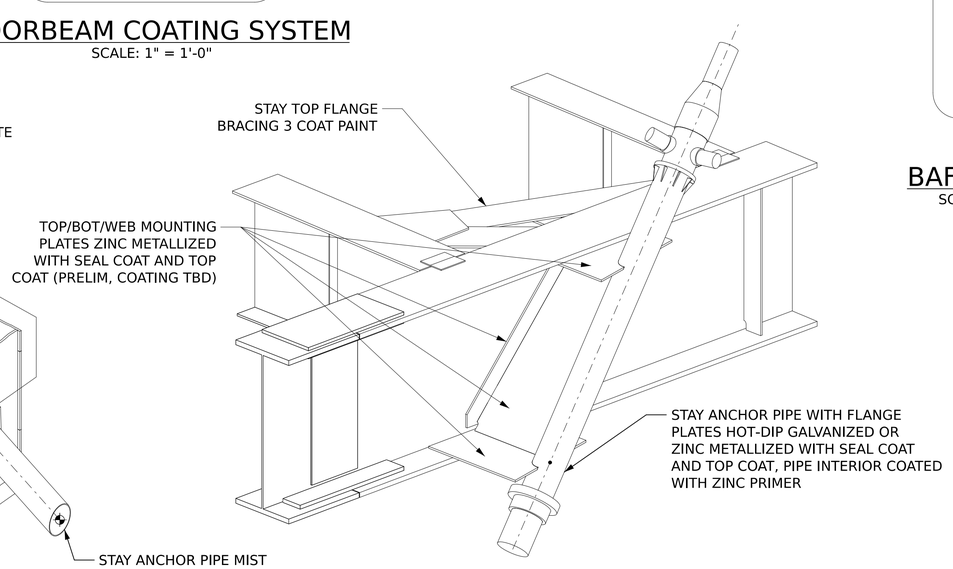
BAFFLE PLATE
SCALE: 1" = 1'-0"



BALLAST BULKHEAD BEAM
SCALE: 1" = 1'-0"



PYLON STAY ANCHOR BOX
SCALE: NTS



DECK STAY ANCHOR
SCALE: NTS

NOTES:

1. ALL STEEL COMPONENTS SHALL BE COATED PER THE PROJECT SPECIAL PROVISIONS.
2. STEEL SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS.
3. CUT/ROUGH EDGES SHALL BE GROUND PRIOR TO CLEANING.
4. FAYING SURFACES SHALL RECEIVE ZINC PRIMER COAT ONLY THAT MEETS CLASS B REQUIREMENTS.
5. STEEL EMBEDDED IN CONCRETE SHALL RECEIVE ZINC PRIMER MIST COAT ONLY THAT PREVENTS RUST BLEED ON TO FINISHED SURFACES PRIOR TO CASTING.

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A	SIBT	04/04/2025	60% SUBMITTAL

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Kiewit
KIEWIT MASSMAN TRAYLOR A JOINT VENTURE
SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

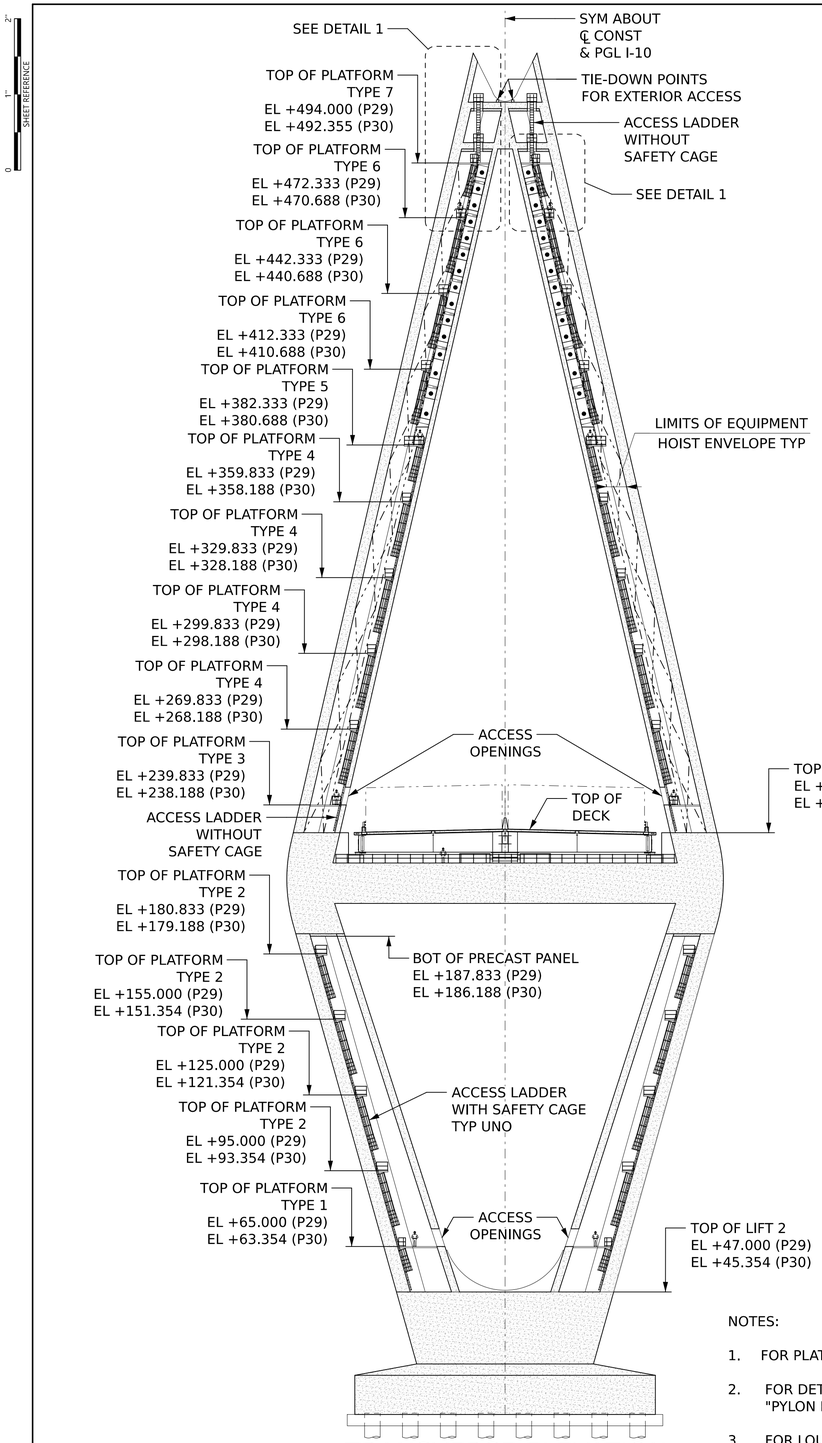
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
STRUCTURAL STEEL
COATING LIMITS

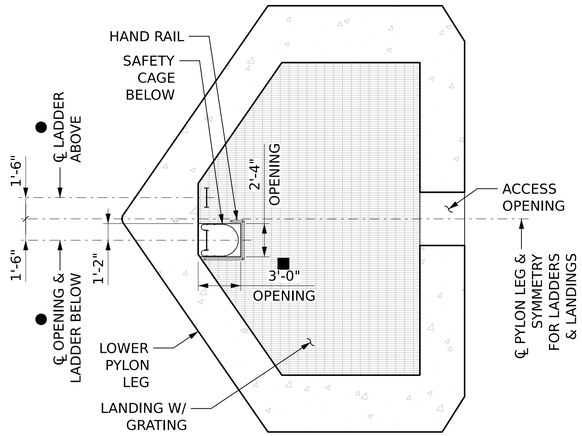
MRB-S04-BR-40931.dgn
rweibel
12:12:49 PM
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40935

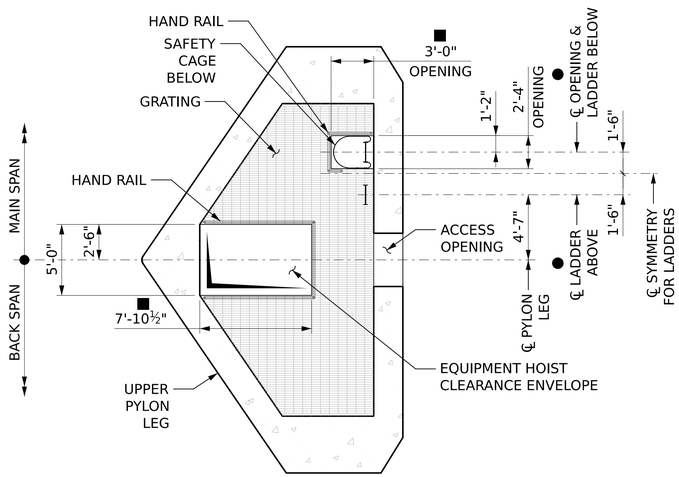
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



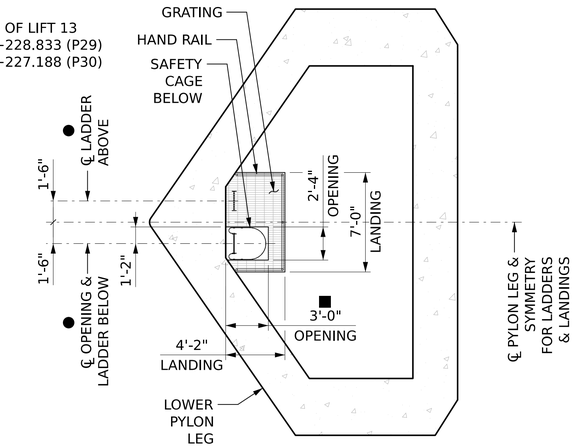
TRANSVERSE ELEVATION
SCALE: 1" = 30'-0"



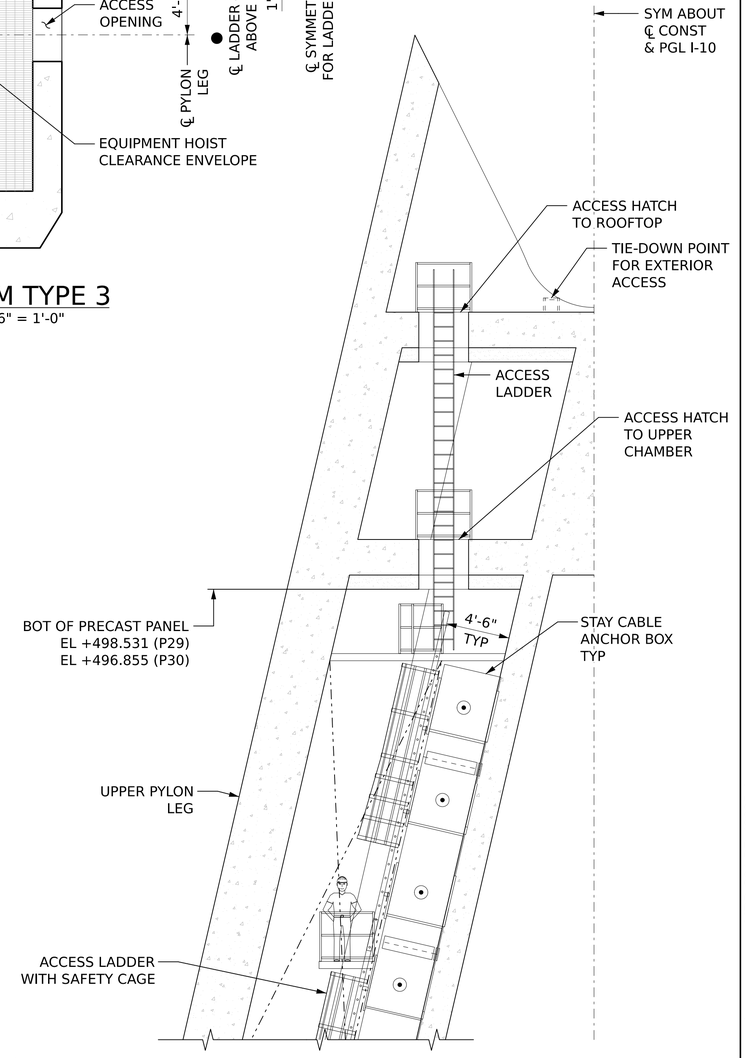
PLATFORM TYPE 1
SCALE: 3/16" = 1'-0"



PLATFORM TYPE 3
SCALE: 3/16" = 1'-0"



PLATFORM TYPE 2
SCALE: 3/16" = 1'-0"



DETAIL 1
SCALE: 3/16" = 1'-0"

NOTES:

1. FOR PLATFORM TYPES 4, 5, 6 AND 7, SEE "PYLON P29 & P30 ACCESS DETAILS 2" SHEET.
2. FOR DETAILS OF ACCESS OPENING AT PYLON LOWER AND UPPER LEG, SEE "PYLON P29 AND P30 ACCESS OPENING DETAILS" SHEET.
3. FOR LOUVER DETAILS, SEE "PYLON P29 AND P30 LOWER LEG MISCELLANEOUS DETAILS" SHEET.

LEGEND:

- ■ DIMENSION SHOWN IS A PROJECTION IN TRUE HORIZONTAL.
- ● ALTERNATE LOCATION AT EACH PLATFORM.

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ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	04/04/2025	60% SUBMITTAL

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BIN(S)
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DESIGNER: M. AYDEMIR DATE: 04/04/2025
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
PYLON P29 & P30
ACCESS DETAILS 1

MRB-S04-BR-40935.dgn
Brad.Shepard
1:36:59 PM
3/27/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40936

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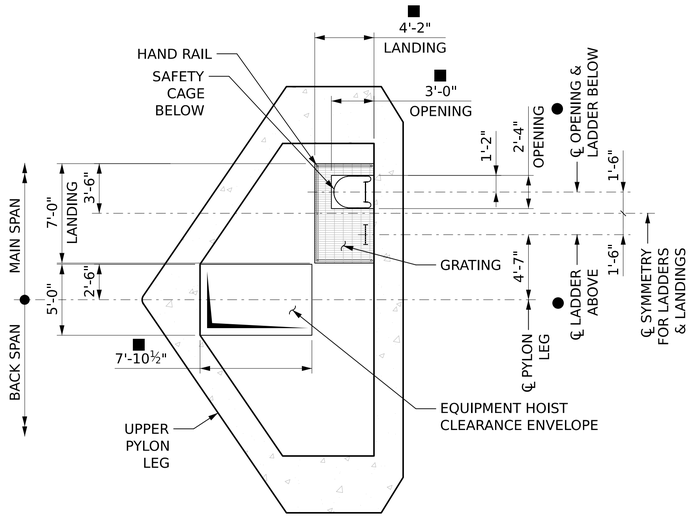

PLATFORM TYPE 4

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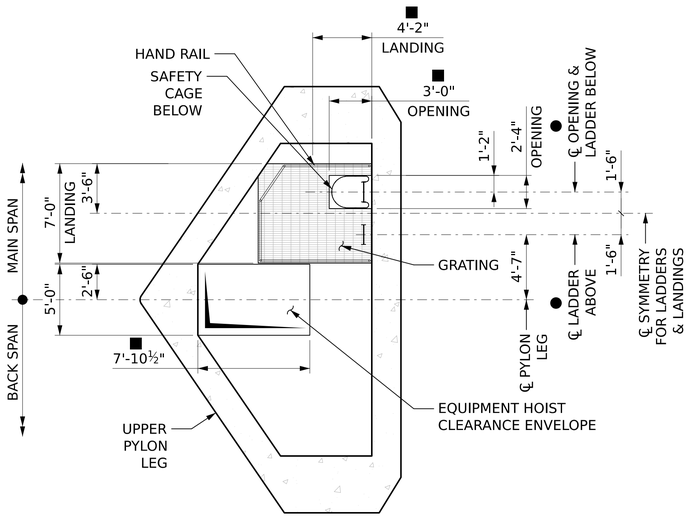

PLATFORM TYPE 5

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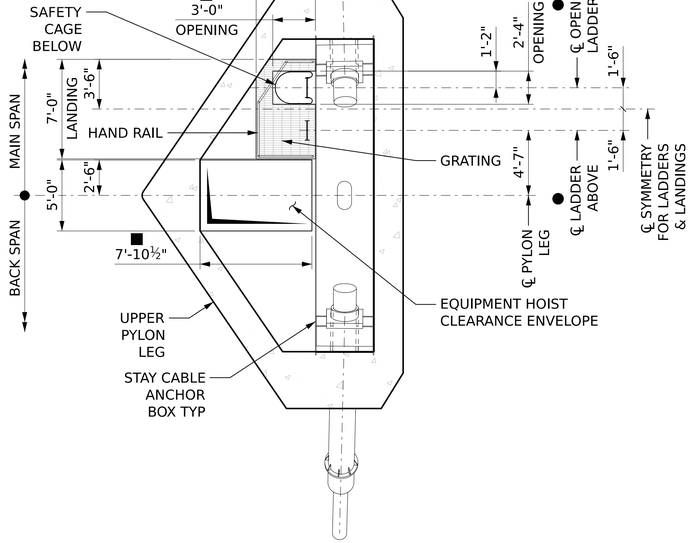

PLATFORM TYPE 6

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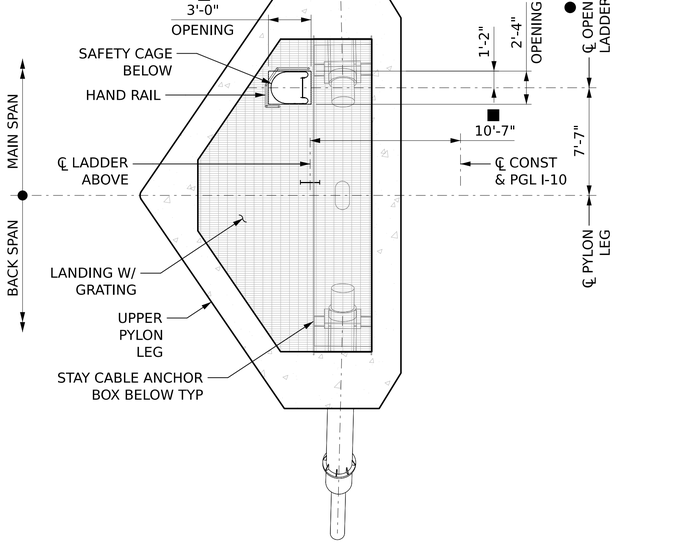

PLATFORM TYPE 7

SCALE: 3/16" = 1'-0"

LEGEND:

■ DIMENSION SHOWN IS A PROJECTION IN TRUE HORIZONTAL.

● ALTERNATE LOCATION AT EACH PLATFORM.

NOTES:

1. FOR FOR LOCATION OF PLATFORM TYPES 4, 5, 6 AND 7, SEE "PYLON P29 & P30 ACCESS DETAILS 1" SHEET.

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BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
PYLON P29 & P30
ACCESS DETAILS 2

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3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40951

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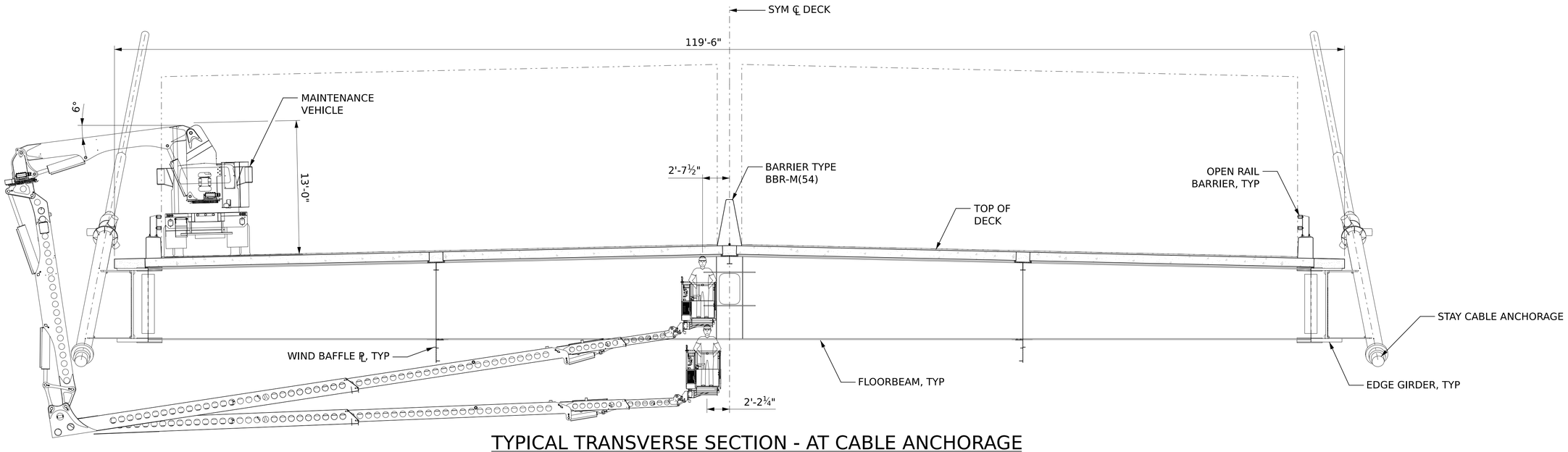
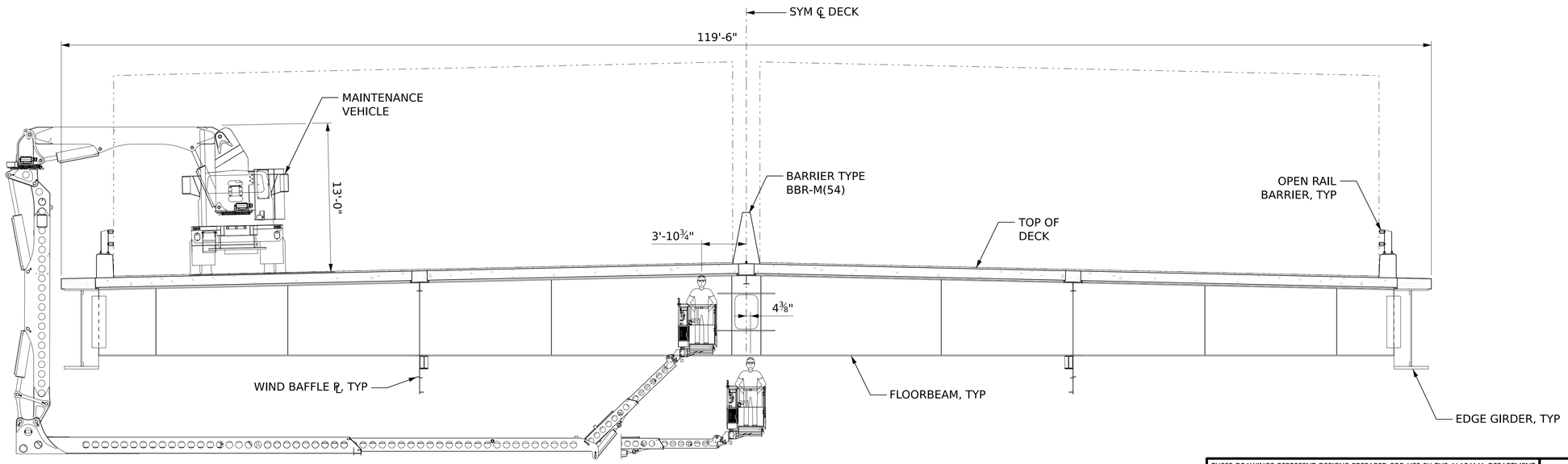


TYPICAL TRANSVERSE SECTION - AT CABLE ANCHORAGE

SCALE: 3/16" = 1'-0"



TYPICAL TRANSVERSE SECTION - BETWEEN CABLE ANCHORAGES

SCALE: 3/16" = 1'-0"

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COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
MAINTENANCE SCHEMATICS
DETAILS 1

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rweibel
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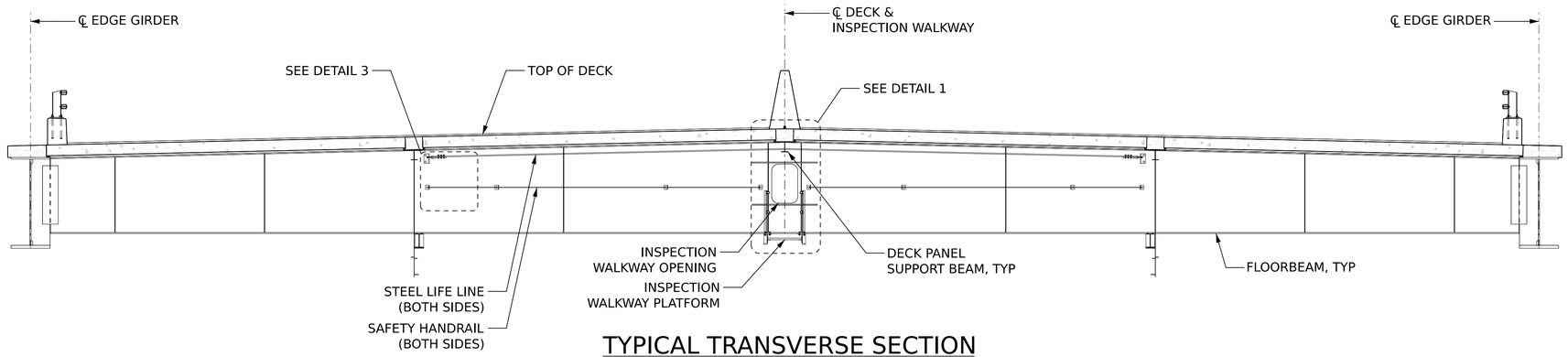
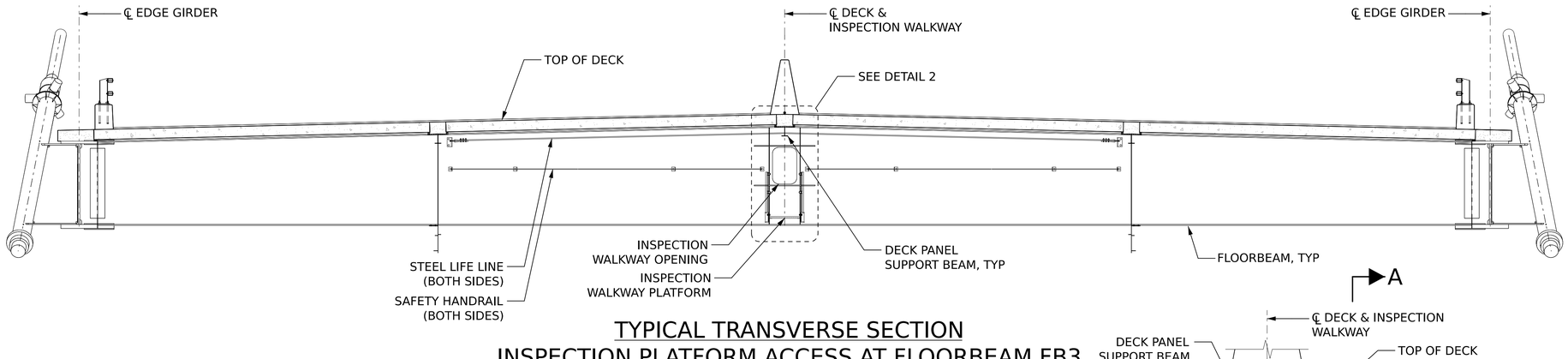
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40953



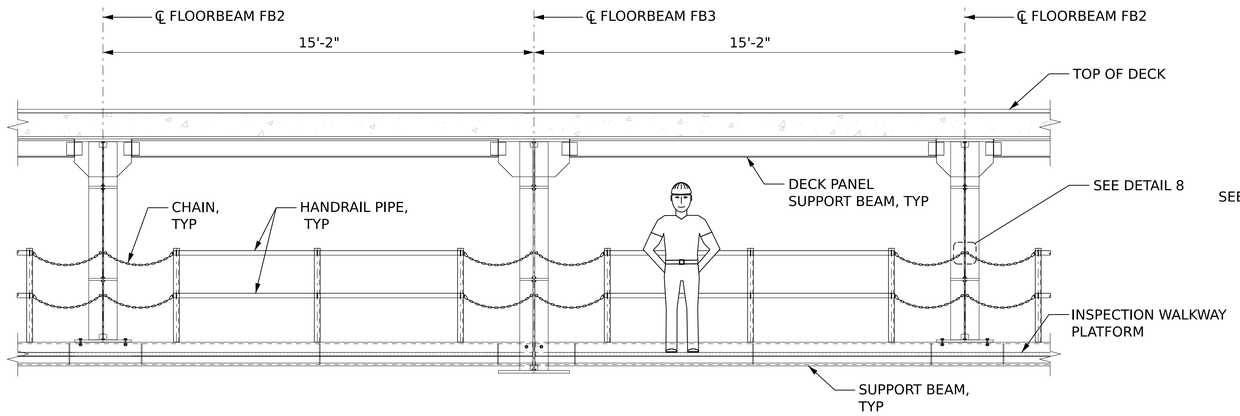
TYPICAL TRANSVERSE SECTION
INSPECTION PLATFORM ACCESS AT FLOORBEAM FB2

SCALE: 3/16" = 1'-0"



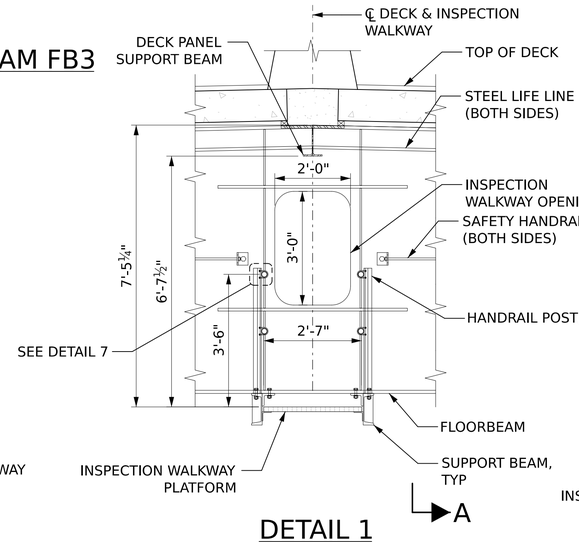
TYPICAL TRANSVERSE SECTION
INSPECTION PLATFORM ACCESS AT FLOORBEAM FB3

SCALE: 3/16" = 1'-0"



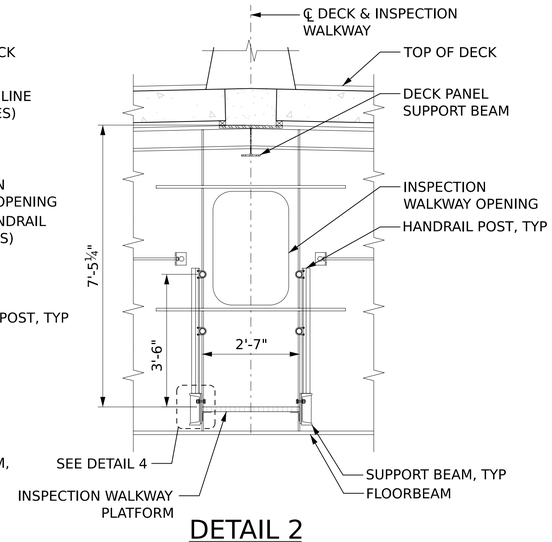
LONGITUDINAL SECTION AT CENTERLINE OF DECK

SCALE: 3/8" = 1'-0"



DETAIL 1

SCALE: 1/2" = 1'-0"



DETAIL 2

SCALE: 1/2" = 1'-0"

NOTES:

1. WORK THIS SHEET WITH "INSPECTION PLATFORM - DETAILS 2."

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2" 1" 0 SHEET REFERENCE

ALABAMA DEPARTMENT OF TRANSPORTATION

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
INSPECTION PLATFORM
DETAILS 1

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rweibel
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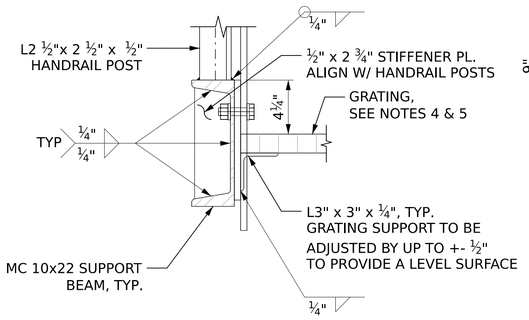
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40954

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

SHEET REFERENCE 0 1" 2"



DETAIL 4
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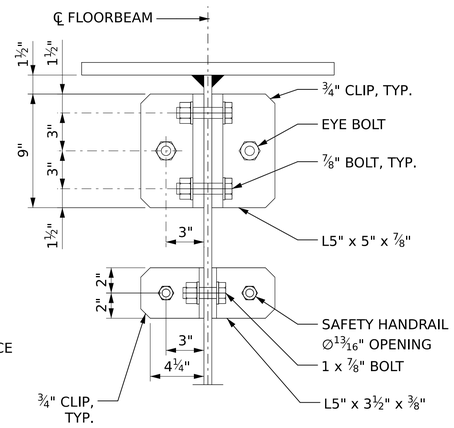
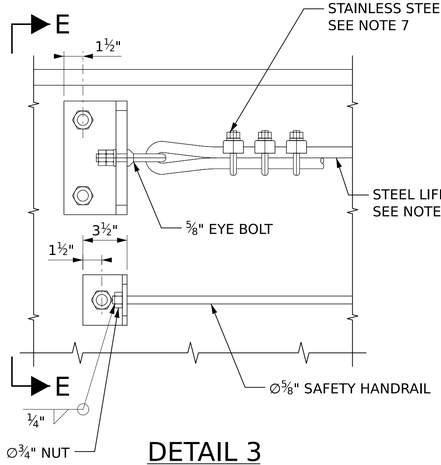


SECTION E-E
SCALE: 2" = 1'-0"



DETAIL 3
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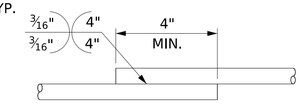
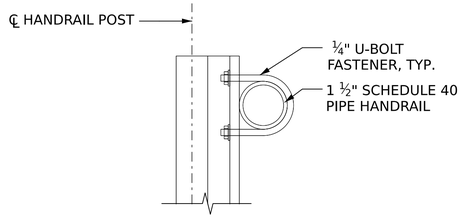
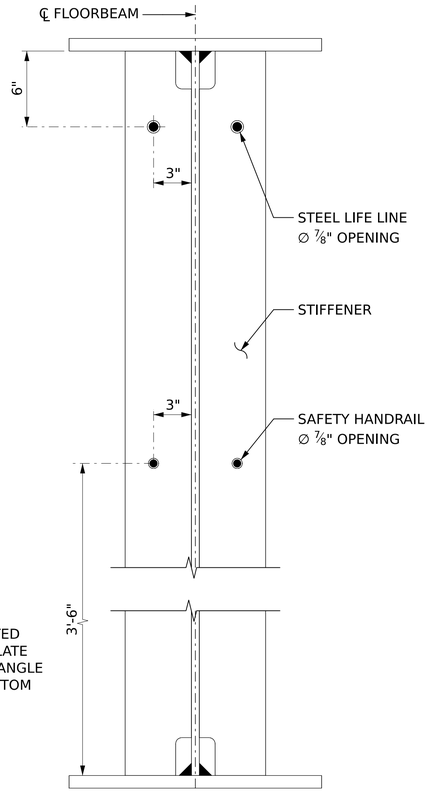


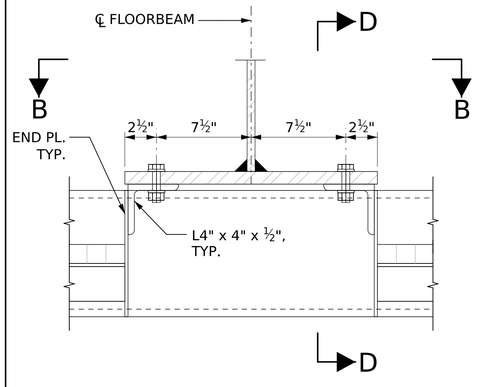
SAFETY HANDRAIL WELDED SPLICE DETAIL
SCALE: 4" = 1'-0"



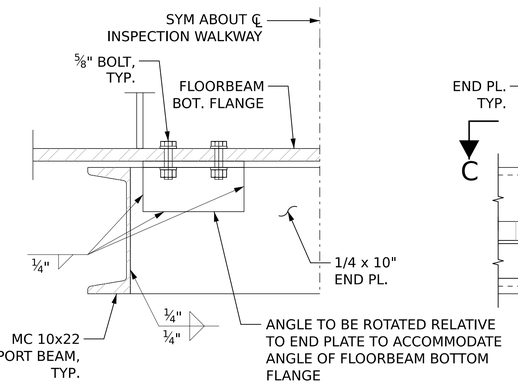
DETAIL 7
SCALE: 4" = 1'-0"



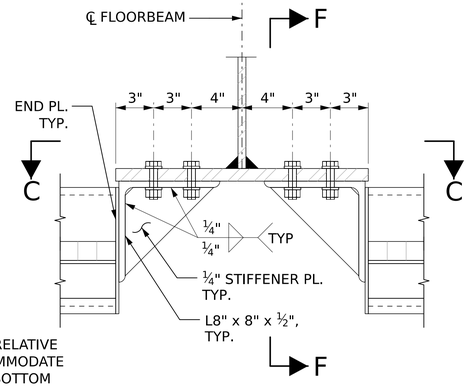
SECTION A-A
SCALE: 2" = 1'-0"



DETAIL 5
SCALE: 2" = 1'-0"



SECTION D-D
SCALE: 2" = 1'-0"



DETAIL 6
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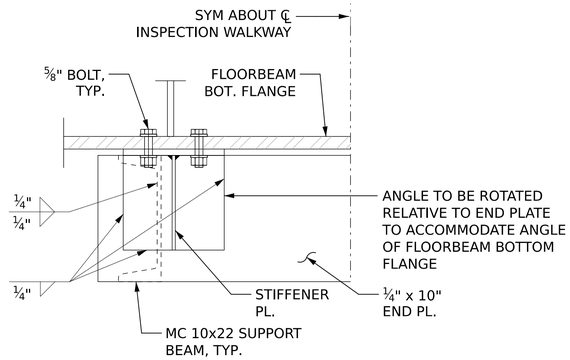

SECTION F-F
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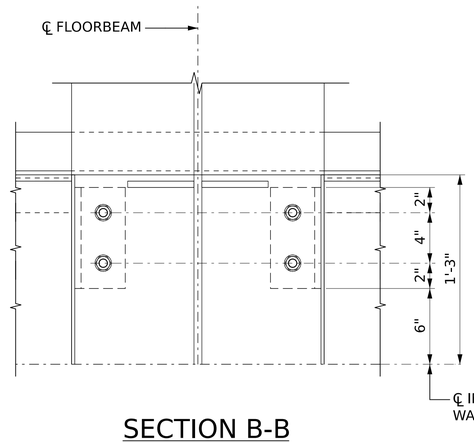

SECTION B-B
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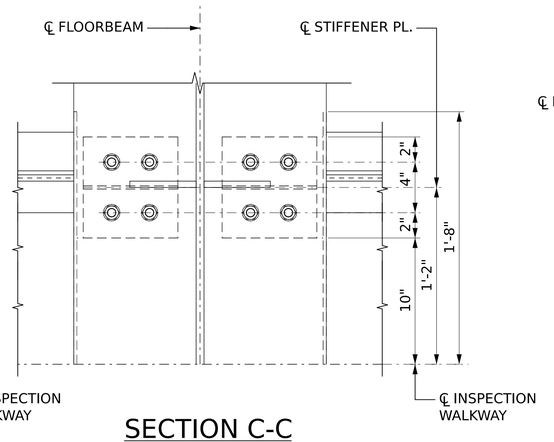
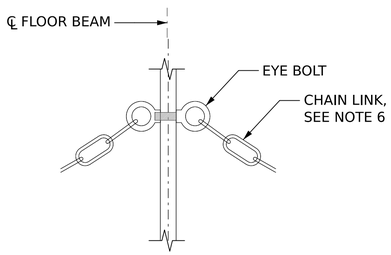


SECTION C-C
SCALE: 2" = 1'-0"



DETAIL 8
SCALE: 4" = 1'-0"

NOTES:

1. ALL CATWALK SHAPE AND PLATE STRUCTURAL STEEL SHALL BE WEATHERING STEEL ASTM A588 GRADE 50 HOT-DIP GALVANIZED EXCEPT AS NOTED OTHERWISE. ALL STEEL PIPE HANDRAILS SHALL BE ASTM A53, GALVANIZED.
2. ALL BOLTS SHALL BE AASHTO M164 (ASTM 325) TYPE 3 HIGH STRENGTH BOLTS, SIZE INDICATED ON DRAWINGS.
3. SUPPORT BEAM LENGTH SHALL OCCUR AT 45'-0" MAXIMUM INTERVALS.
4. METAL GRATING SHALL BE GALVANIZED AND CAPABLE OF WITHSTANDING A LIVE LOAD OF EITHER 60 PSF OR A CONCENTRATED LOAD OF 300 LBS, WHICHEVER PRODUCES THE GREATER EFFECT. GRATING SHALL BE INSTALLED LEVEL IN THE TRANSVERSE DIRECTION, AND SHALL FOLLOW THE BRIDGE GRADE IN THE LONGITUDINAL DIRECTION.
5. METAL GRATING FASTENERS SHALL BE HOT-DIP GALVANIZED AND INTEGRATED WITH THE METAL GRATING. FASTENER SPACING SHALL BE PER THE GRATING MANUFACTURER.
6. SAFETY CHAIN SHALL BE ¼" GALVANIZED STEEL COIL CHAIN APPROXIMATELY 12 LINKS PER FOOT. CHAIN SHALL BE EQUIPPED WITH A GALVANIZED CLASP TO ALLOW PASSAGE AND SHALL BE ATTACHED TO A STAINLESS STEEL EYEBOLT ON EITHER END.
7. STEEL LIFE LINE SHALL BE GRADE 304 STAINLESS STEEL WIRE ROPE. THE WIRE ROPE AND CLAMPING CONNECTIONS SHALL PROVIDE A MINIMUM BREAKING LOAD OF 12 KIPS. STEEL LIFE LINE SHALL BE INSTALLED WITH A TOTAL LENGTH BETWEEN EYE BOLTS EQUAL TO THE NOMINAL LENGTH PLUS 1-½". THE EXCESS SLACK SHALL BE EVENLY DISTRIBUTED BETWEEN POINTS OF SUPPORT.

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ALABAMA DEPARTMENT OF TRANSPORTATION

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DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
INSPECTION PLATFORM
DETAILS 2

MRB-S04-BR-40954.dgn
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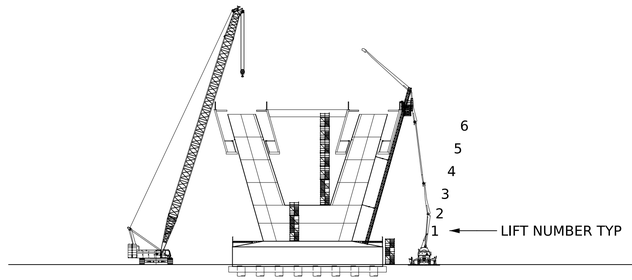
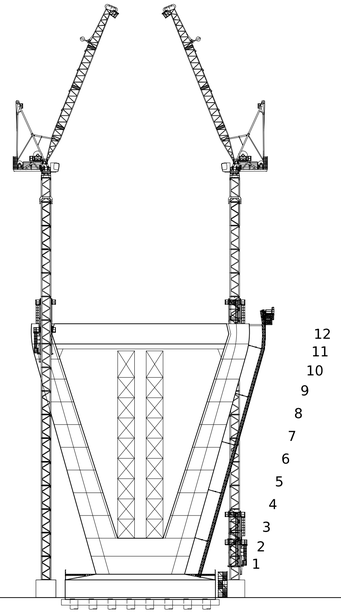
3/14/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40961



STAGE 1

- CONSTRUCT FOUNDATION
- CONSTRUCT TOWER BASE LIFT 1 AND 2
- INSTALL LOWER TOWER FORMWORK
- JUMP FORMWORK WITH CRANE
- CONSTRUCT LIFT 3
- INSTALL SELF CLIMBING SYSTEM
- CONSTRUCT LIFT 4 THROUGH 6



STAGE 2

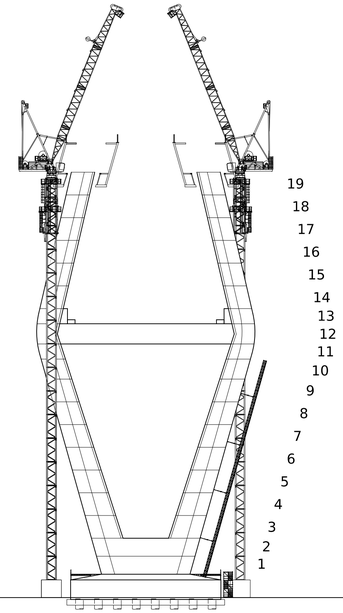
* REFINED FALSEWORK AND CROSS BEAM CONSTRUCTION STAGING TO BE PROVIDED IN THE ERECTION MANUAL

- COMMISSION TOWER CRANE
- CONSTRUCT LIFT 7 TO 11
- INSTALL CRANE TIE-IN 1 AT LIFT 9. ELEVATION TO BE DETERMINED
- REMOVE FORMWORK SELF CLIMBING SYSTEM
- INSTALL CROSSBEAM FALSEWORK
- INSTALL TEMPORARY EXTERNAL PT AT TOP OF LIFTS 11 AND STRESS TO 1,080 KIPS
- POUR CROSSBEAM (LIFT 12), STRESS AND GROUT PT, REMOVE FALSEWORK

NOTES:

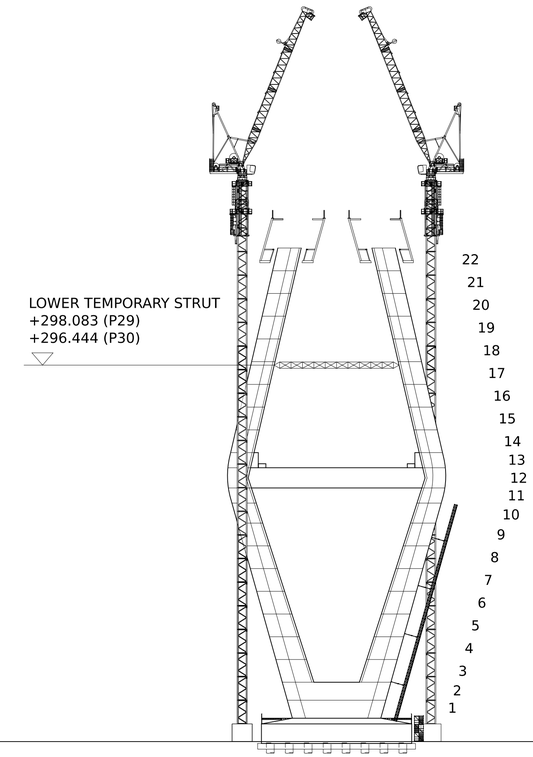
HIP SECTION WILL REQUIRE THE REMOVAL OF THE FORMWORK SELF CLIMBING SYSTEM. FORMWORK WILL BE MODIFIED AND PLACED IN SECTIONS BY CRANE FOR EACH LIFT, ALL OR SOME FORMWORK WILL BE REMOVED DURING CROSSBEAM CONSTRUCTION.

TEMPORARY EXTERNAL POST-TENSIONING REQUIRED FOR CROSS BEAM FALSEWORK SHALL BE REMOVED AFTER CROSS BEAM PT IS STRESSED AND GROUTED.



STAGE 3

- JUMP TOWER CRANE
- CONSTRUCT LIFTS 13 AND 14
- INSTALL SELF LAUNCHING SYSTEM
- CONSTRUCT LIFT 15 TO 19



STAGE 4

- CONSTRUCT LOWER TEMPORARY STRUT AND JACK
- JUMP TOWER CRANE AND INSTALL TIE-IN 2 AT LIFT 16 ELEVATION TO BE DETERMINED
- CONSTRUCT LIFT 20 TO 22

ESTIMATED TEMPORARY STRUT TOTAL FORCE TABLE

STRUT LOCATION	ACTIVE JACKING [KIPS]	MAXIMUM UNFACTORED COMPRESSION FORCE [KIPS]	MAXIMUM STRENGTH LIMIT STATE COMPRESSION [KIPS]
LOWER	730	2,248	2,824
MIDDLE	710	1,878	2,357
UPPER	600	680	845

TABLE NOTES

1. ALL FORCES ARE IN COMPRESSION
2. VALUES ARE THE TOTAL PER STRUT CONSISTING OF TWO MEMBERS

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: M. AYDEMIR DATE: 09/01/2023

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE ERECTION SCHEMATICS DETAILS 1

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-BR-40961.dgn

Adriana.Albarano

2:48:57 PM

3/27/2025

0 1" SHEET REFERENCE 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40962

PRELIMINARY
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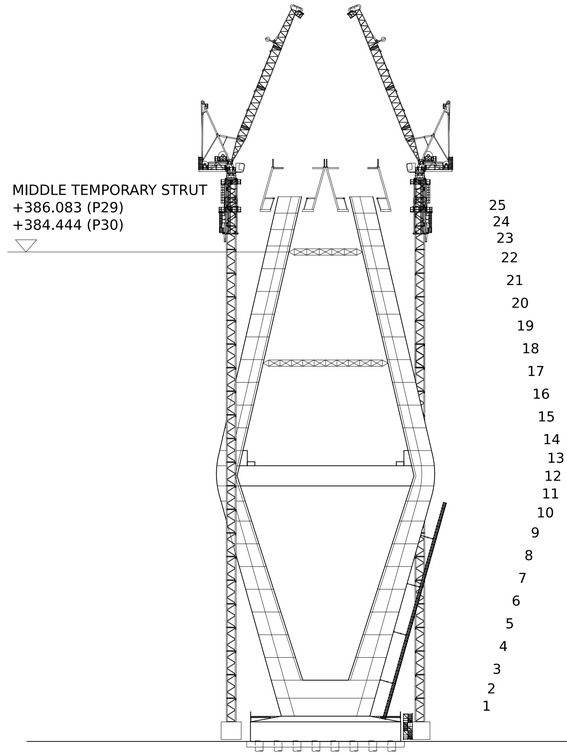
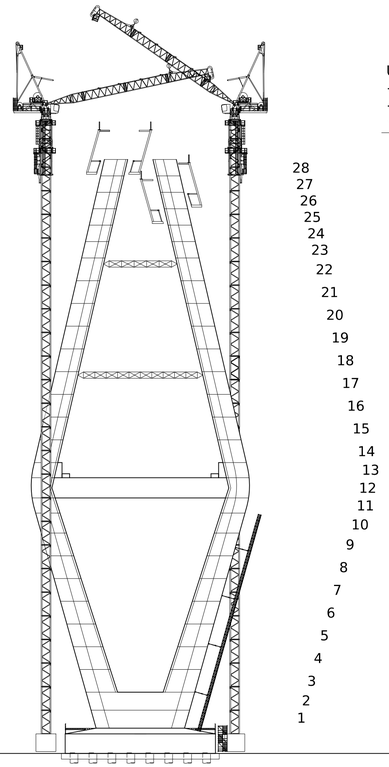


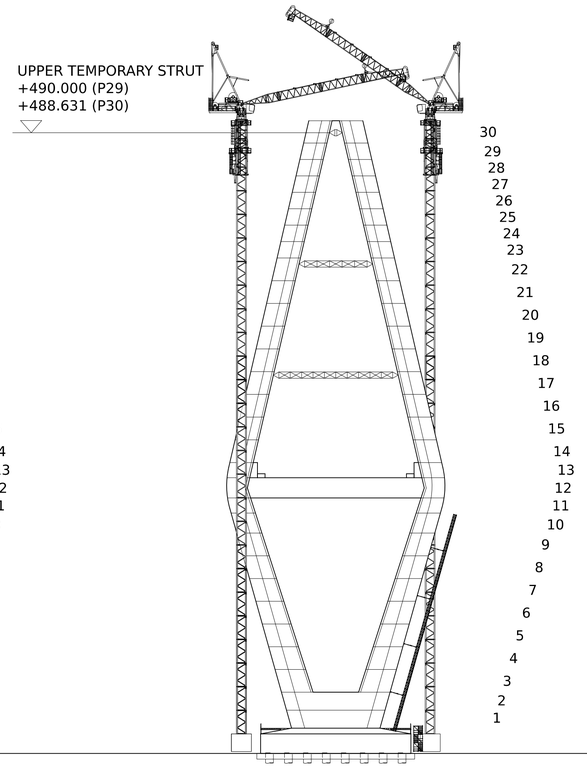
STAGE 5

- JUMP TOWER CRANE
- CONSTRUCT LIFTS 23 TO 25
- CONSTRUCT MIDDLE TEMPORARY STRUT AND JACK
- INSTALL CRANE TIE-IN 3 AT LIFT 23. ELEVATION TO BE DETERMINED



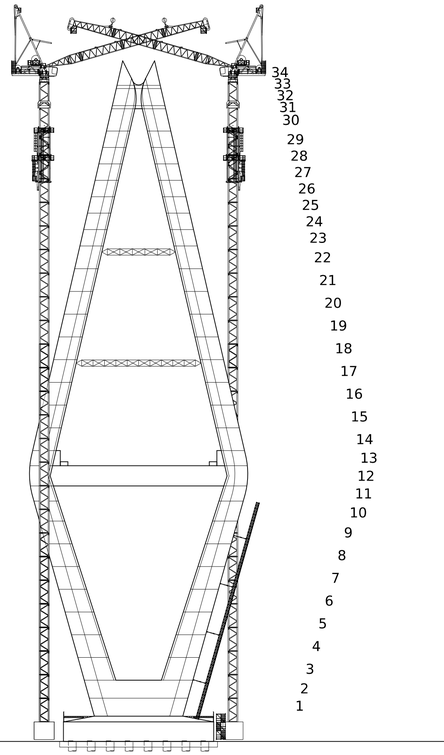
STAGE 6

- JUMP TOWER CRANE
- CONSTRUCT LIFTS 26 TO 28



STAGE 7

- JUMP NORTH LEG FORMWORK TO LIFT 29
- CONSTRUCT NORTH LEG LIFT 29
- JUMP NORTH LEG FORMWORK TO LIFT 30
- CONSTRUCT NORTH LEG LIFT 30
- MODIFY/REMOVE CONFLICTING NORTH LEG FORMWORK
- JUMP SOUTH LEG FORMWORK TO LIFT 29
- CONSTRUCT SOUTH LEG LIFT 29
- MODIFY/REMOVE CONFLICTING SOUTH LEG FORMWORK
- JUMP SOUTH LEG FORMWORK TO LIFT 30
- MODIFY/JOIN NORTH AND SOUTH LEG FORMWORK
- CONSTRUCT LIFT 30
- CONSTRUCT UPPER TEMPORARY STRUT AND JACK



STAGE 8

- MODIFY AND INSTALL LIFT 31 FORMWORK
- CONSTRUCT LIFT 31
- MODIFY AND INSTALL LIFT 32 FORMWORK
- CONSTRUCT LIFT 32
- MODIFY AND INSTALL LIFT 33 FORMWORK
- CONSTRUCT LIFT 33
- MODIFY AND INSTALL LIFT 34 FORMWORK AND CONSTRUCT LIFT 34 ERECTING THE PYLON TOP AS A PRECAST ELEMENT IS OPTIONAL
- REMOVE ALL TEMPORARY STRUTS. LIFT 33 SHALL BE COMPLETE AND HAVE A CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI PRIOR TO REMOVAL

NOTE:
AT COMPLETION OF DECK AND STAY INSTALLATION.
THE TOP SPIRE WILL BE ERECTED, PRIOR TO THE CRANE DECONSTRUCTION. THE MASKING WALL FOR THE TOWER BASE WILL BE CONSTRUCTED AT THIS TIME AS WELL.

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COUNTY(S)
MOBILE

DESIGNER: M. AYDEMIR DATE: 09/01/2023

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
ERECTION SCHEMATICS
DETAILS 2

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40966

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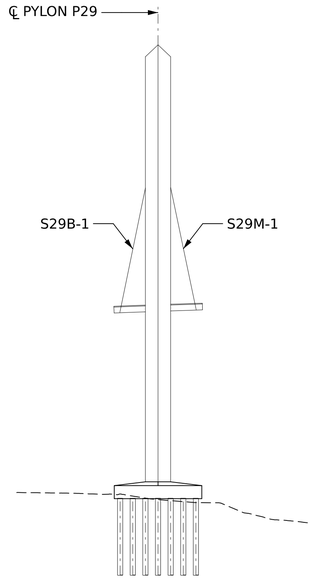
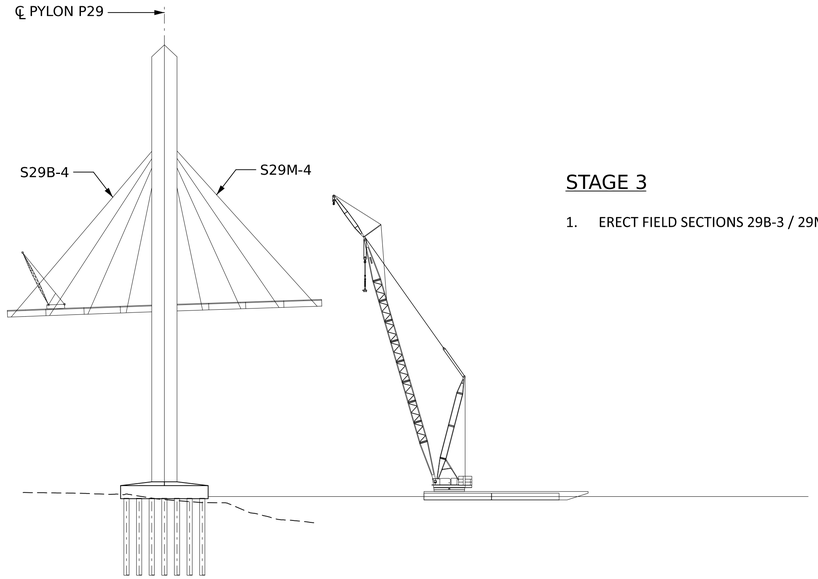


STAGE 1

1. ERECT PYLONS.
2. SPLICE GIRDERS 29B-1, 29B-0 AND 29M-1 ON GROUND. ERECT NORTH AND SOUTH EDGE GIRDERS ON TEMPORARY BLOCKING ON PYLON CROSSBEAM AND STRESS TEMPORARY TIE-DOWNS.
3. INSTALL PIER TABLE FLOORBEAMS IN BALANCED FASHION.
4. INSTALL LUD BRACKETS, AND INSTALL TEMPOARY LONGITUDINAL RESTRAINT PIPES BETWEEN LUD BRACKETS AND PYLON LUD SHEAR KEY.
5. ENGAGE TRANSVERSE RESTRAINT.
6. PLACE MIDDLE 4 ROWS OF PRECAST PANELS.
7. INSTALL STAYS S29B-1 AND S29M-1.
8. PLACE LAST 2 ROWS OF PANELS.
9. PERFORM TUNING ADJUSTMENT OF STAYS.
10. CAST FLOORBEAM AND EDGE GIRDER CLOSURE POURS.
11. PERFORM STAY ADJUSTMENT ON COMPOSITE DECK.

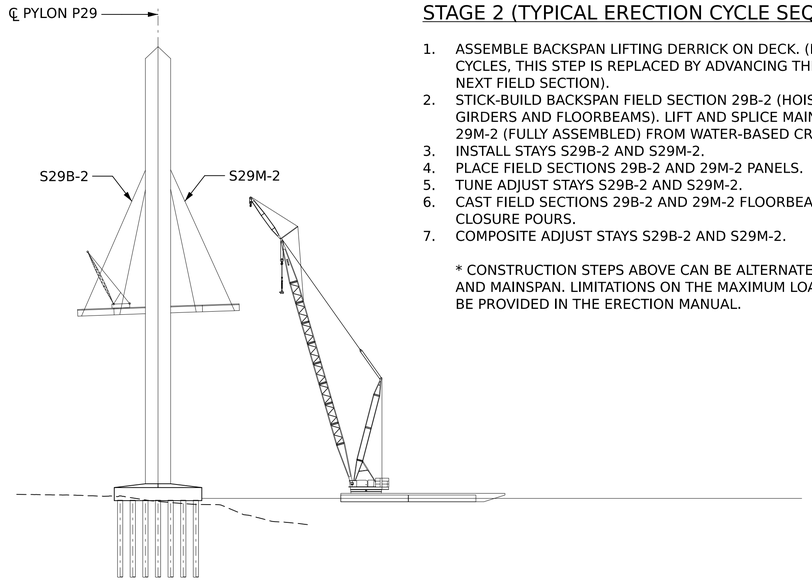
STAGE 1



STAGE 3

1. ERECT FIELD SECTIONS 29B-3 / 29M-3 AND 29B-4 / 29M-4 PER TYPICAL SEQUENCE.

STAGE 3

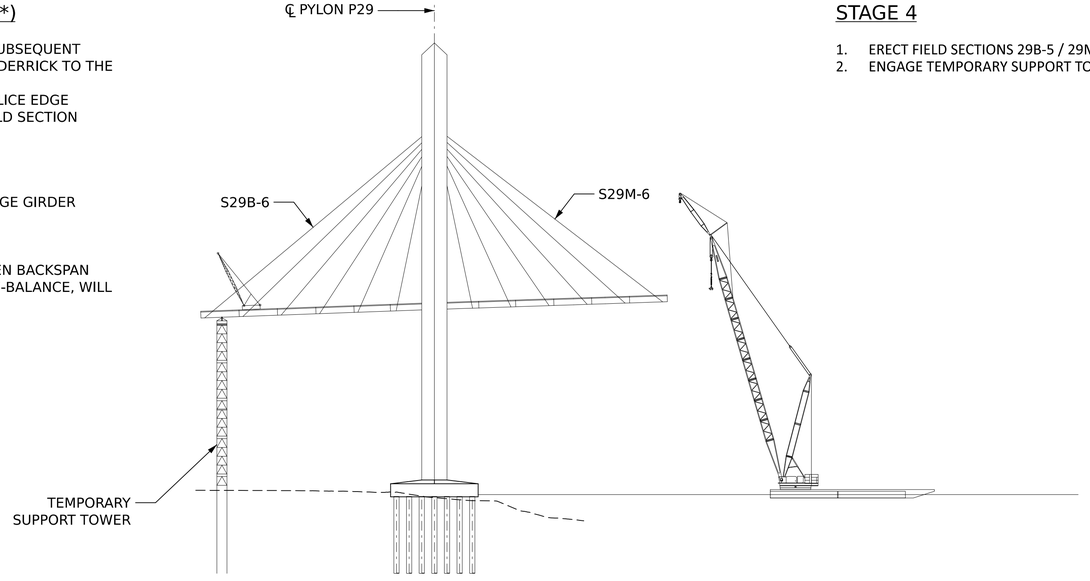


STAGE 2 (TYPICAL ERECTION CYCLE SEQUENCE*)

1. ASSEMBLE BACKSPAN LIFTING DERRICK ON DECK. (NOTE IN SUBSEQUENT CYCLES, THIS STEP IS REPLACED BY ADVANCING THE LIFTING DERRICK TO THE NEXT FIELD SECTION).
2. STICK-BUILD BACKSPAN FIELD SECTION 29B-2 (HOIST AND SPLICE EDGE GIRDERS AND FLOORBEAMS). LIFT AND SPLICE MAINSPAN FIELD SECTION 29M-2 (FULLY ASSEMBLED) FROM WATER-BASED CRANE.
3. INSTALL STAYS S29B-2 AND S29M-2.
4. PLACE FIELD SECTIONS 29B-2 AND 29M-2 PANELS.
5. TUNE ADJUST STAYS S29B-2 AND S29M-2.
6. CAST FIELD SECTIONS 29B-2 AND 29M-2 FLOORBEAM AND EDGE GIRDER CLOSURE POURS.
7. COMPOSITE ADJUST STAYS S29B-2 AND S29M-2.

* CONSTRUCTION STEPS ABOVE CAN BE ALTERNATED BETWEEN BACKSPAN AND MAINSPAN. LIMITATIONS ON THE MAXIMUM LOAD OUT-OF-BALANCE, WILL BE PROVIDED IN THE ERECTION MANUAL.

STAGE 2



STAGE 4

1. ERECT FIELD SECTIONS 29B-5 / 29M-5 AND 29B-6 AND 29M-6 PER TYPICAL SEQUENCE.
2. ENGAGE TEMPORARY SUPPORT TOWER.

STAGE 4

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BRIDGE ENGINEER DATE

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BIN(S)

COUNTY(S)

MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
ERECTION SCHEMATICS
DETAILS 6

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
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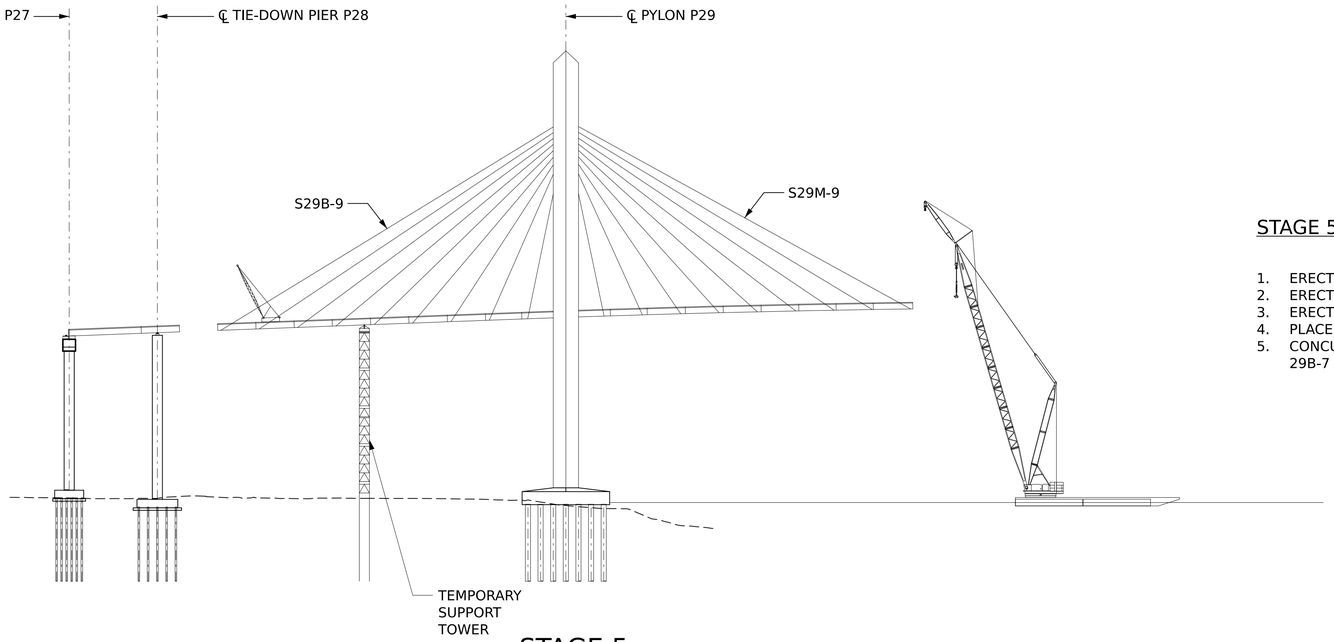
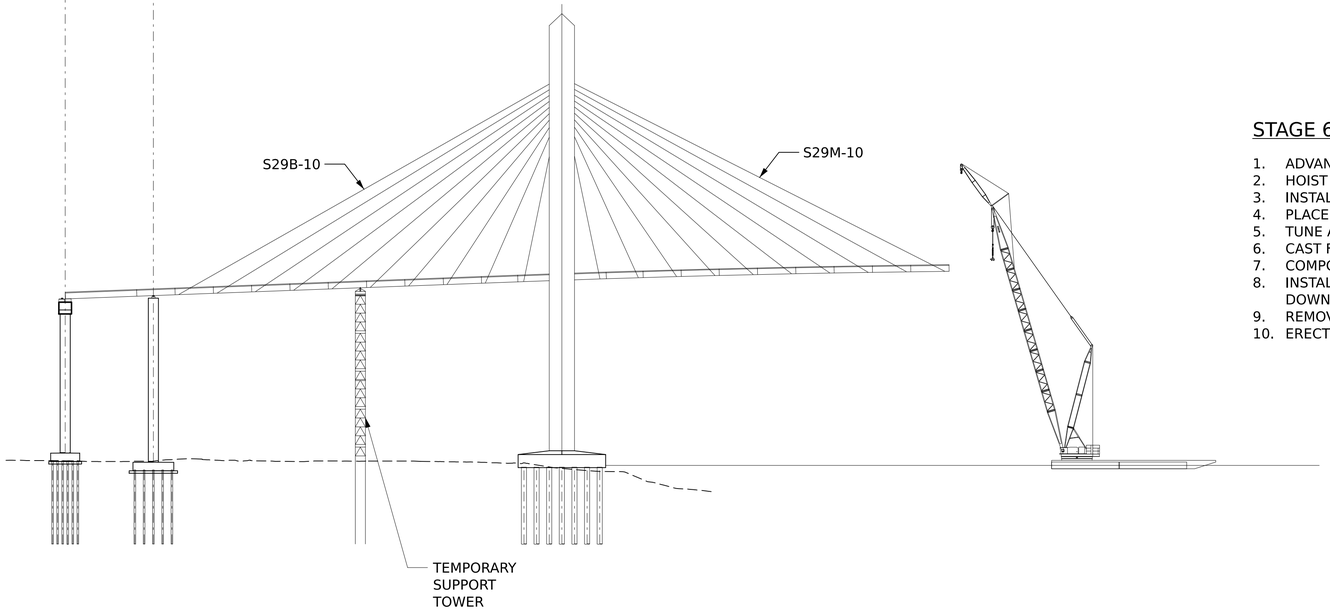


STAGE 5

STAGE 5

1. ERECT BACKSPAN PIERS P27 AND P28.
2. ERECT BALLAST SPAN EDGE GIRDERS S29B-12/S29B-11 (SPLICED ON GROUND).
3. ERECT BALLAST SPAN FLOORBEAMS, BULKHEAD BEAMS AND BRACING.
4. PLACE BALLAST SOFFIT PRECAST PANELS.
5. CONCURRENT WITH BALLAST SPAN CONSTRUCTION, ERECT FIELD SECTIONS 29B-7 / 29M-7 THRU 29B-9 / 29M-9 PER TYPICAL SEQUENCE.



STAGE 6

STAGE 6

1. ADVANCE BACKSPAN LIFTING EQUIPMENT TO FIELD SECTION 29B-9.
2. HOIST AND SPLICE BACKSPAN CLOSURE EDGE GIRDERS 29B-10, AND INSTALL FLOORBEAMS.
3. INSTALL STAYS S29B-10.
4. PLACE FIELD SECTION 29B-10 PRECAST PANELS.
5. TUNE ADJUST STAYS S29B-10.
6. CAST FIELD SECTION 29B-10 FLOORBEAM AND EDGE GIRDER CLOSURE POURS.
7. COMPOSITE ADJUST STAYS S29B-10.
8. INSTALL AND ENGAGE ALL PERMANENT BEARINGS AT PIERS P27 AND P28, AND STRESS TIE-DOWN CABLES AT P28.
9. REMOVE BACKSPAN LIFTING DERRICKS.
10. ERECT MAINSPAN FIELD SECTION 29M-10 PER TYPICAL SEQUENCE.

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60%

BIN(S)

COUNTY(S)
MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
ERECTION SCHEMATICS
DETAILS 7

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4/1/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-BR-40968

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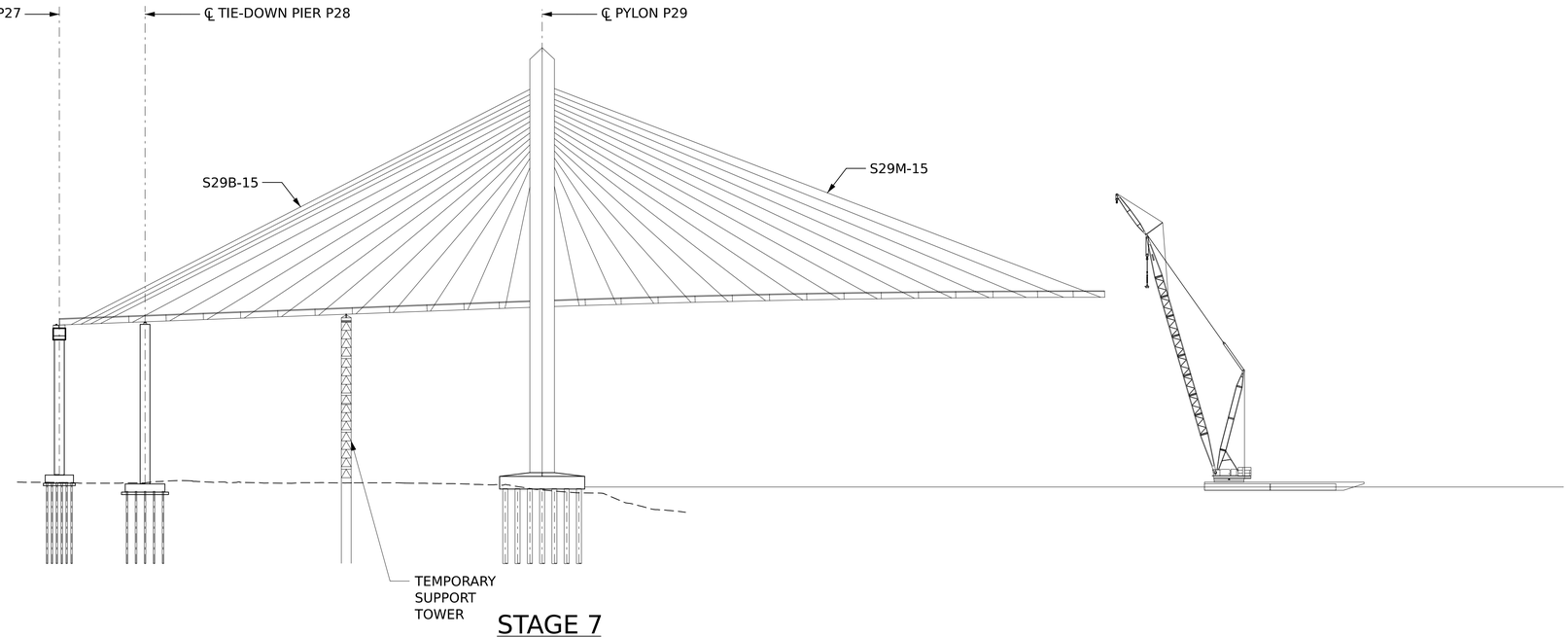
SHEET REFERENCE 0 1" 2"

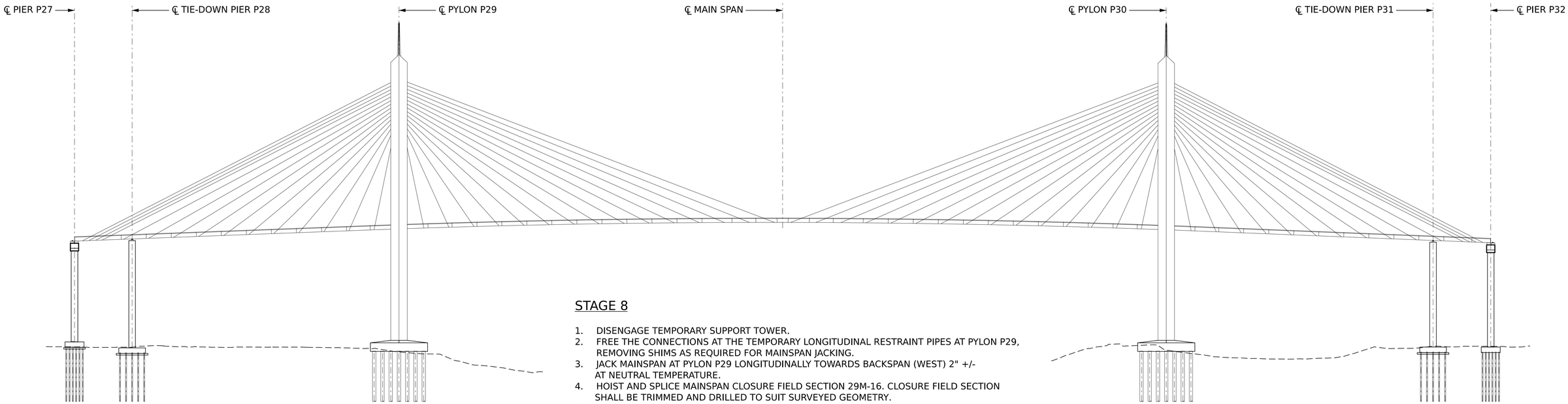


STAGE 7

STAGE 7 *

* REFINED BACKSPAN BALLAST POUR AND DECK SEQUENCING WITH MAINSPAN TO BE PROVIDED IN THE ERECTION MANUAL.

1. ERECT MAINSPAN FIELD SECTION 29M-11 STEEL.
2. INSTALL BACKSPAN AND MAINSPAN STAYS S29B-11 AND S29M-11.
3. POUR 2 TRANSVERSE ROWS OF BALLAST (1 ROW BEYOND STAY S29B-11) AND INSTALL BACKSPAN PRECAST PANELS TO STAY S29B-11.
4. INSTALL MAINSPAN 29M-11 PRECAST PANELS.
5. TUNE ADJUST STAYS S29B-11 AND S29M-11.
6. CAST BACKSPAN (TO END OF ERECTED PANELS) AND MAINSPAN FIELD SECTION 29M-11 FLOORBEAM AND EDGE GIRDER CLOSURE POURS.
7. COMPOSITE ADJUST STAYS S29B-11 AND S29M-11.
8. ANDVANCE MAINSPAN DERRICKS.
9. INSTALL BACKSPAN STAY S29-B12.
10. ERECT MAINSPAN FIELD SECTION 29-M12 STEEL.
11. INSTALL MAINSPAN STAY S29-M12.
12. POUR 2 TRANSVERSE ROWS OF BALLAST (TO STAY S29-B12) AND INSTALL BACKSPAN PRECAST PANELS TO STAY S29-B12.
13. INSTALL 29-M12 PRECAST PANELS.
14. TUNE ADJUST STAYS S29-B12 AND S29-M12.
15. CAST BACKSPAN (TO END OF ERECT PANELS) AND MAINSPAN FIELD SECTION M29-M12 FLOORBEAM AND EDGE GIRDER CLOSURE POURS.
16. COMPOSITE ADJUST STAYS S29-B12 AND S29-M12.
17. CONTINUE TO ERECT BACKSPAN AND MAINSPAN PER THE GENERAL SEQUENCING IN STEPS ABOVE UNTIL COMPLETION OF THE COMPOSITE ADJUSTMENT OF STAYS S29B-15 AND S29M-15.
18. STRESS BACKSPAN LONGITUDINAL DECK PT.



STAGE 8

STAGE 8

1. DISENGAGE TEMPORARY SUPPORT TOWER.
2. FREE THE CONNECTIONS AT THE TEMPORARY LONGITUDINAL RESTRAINT PIPES AT PYLON P29, REMOVING SHIMS AS REQUIRED FOR MAINSPAN JACKING.
3. JACK MAINSPAN AT PYLON P29 LONGITUDINALLY TOWARDS BACKSPAN (WEST) 2" +/- AT NEUTRAL TEMPERATURE.
4. HOIST AND SPLICE MAINSPAN CLOSURE FIELD SECTION 29M-16. CLOSURE FIELD SECTION SHALL BE TRIMMED AND DRILLED TO SUIT SURVEYED GEOMETRY.
5. PLACE MAINSPAN CLOSURE PANELS.
6. CAST MAINSPAN CLOSURE FIELD SECTION 29M-16 FLOORBEAM AND EDGE GIRDER POURS.
7. STRESS MAINSPAN LONGITUDINAL DECK PT.
8. RELEASE JACKS AT PYLON P29.
9. PERFORM FINAL STAY ADJUSTMENTS, AS NECESSARY, FOR STRESS AND GEOMETRY CONTROL.
10. INSTALL PERMANENT LUD'S PER DETAILED SEQUENCE TO BE PROVIDED IN THE ERECTION MANUAL.
11. POUR BARRIERS, OVERLAY, AND PERFORM FINISH WORK.

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MOBILE

DESIGNER: B. TETZLAFF DATE: 04/04/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE
ERECTION SCHEMATICS
DETAILS 8

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1002

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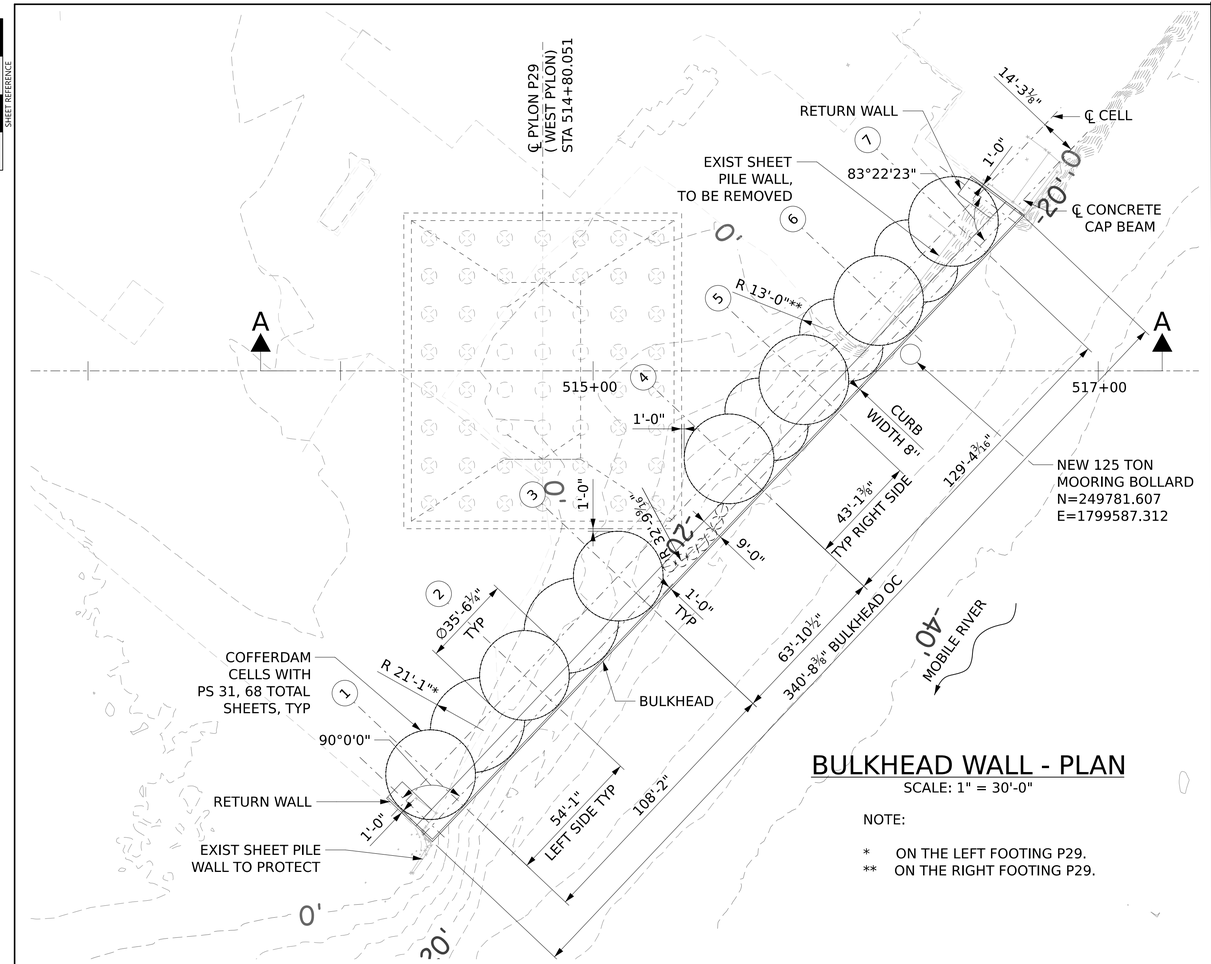
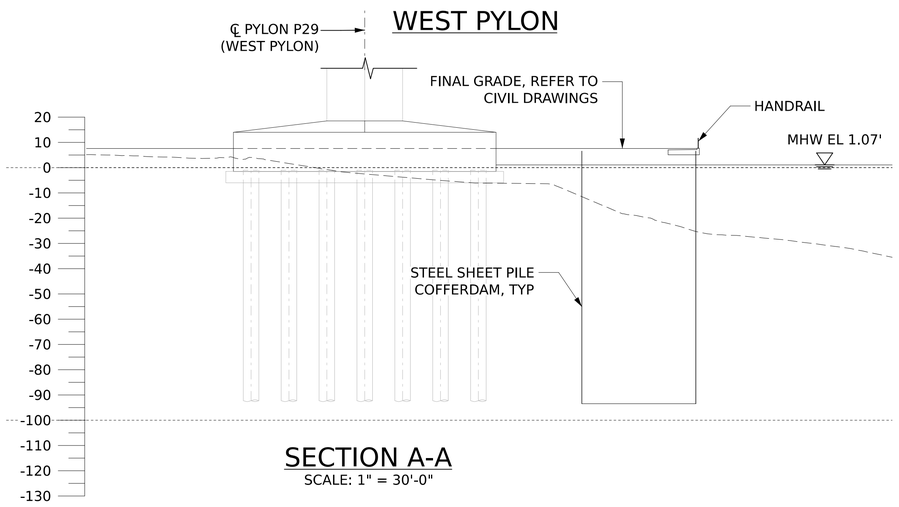


BULKHEAD WALL - PLAN

SCALE: 1" = 30'-0"

NOTE:

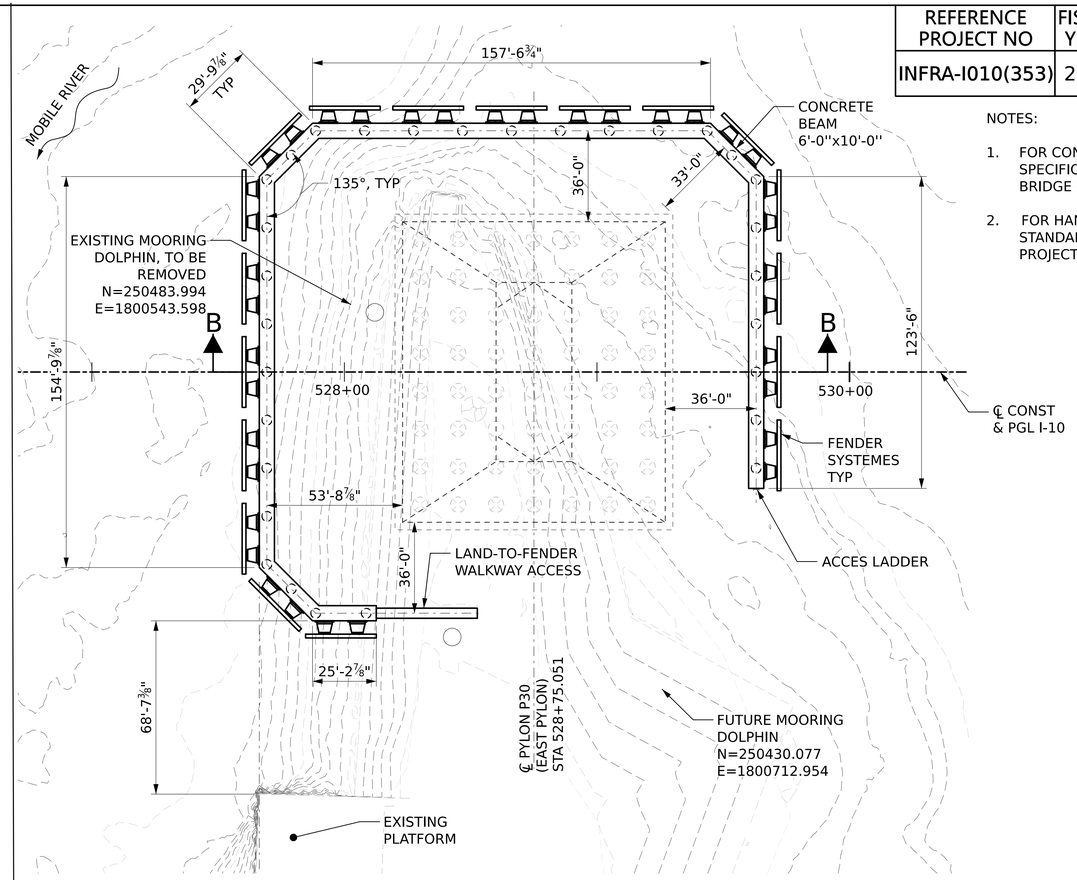
* ON THE LEFT FOOTING P29.
** ON THE RIGHT FOOTING P29.



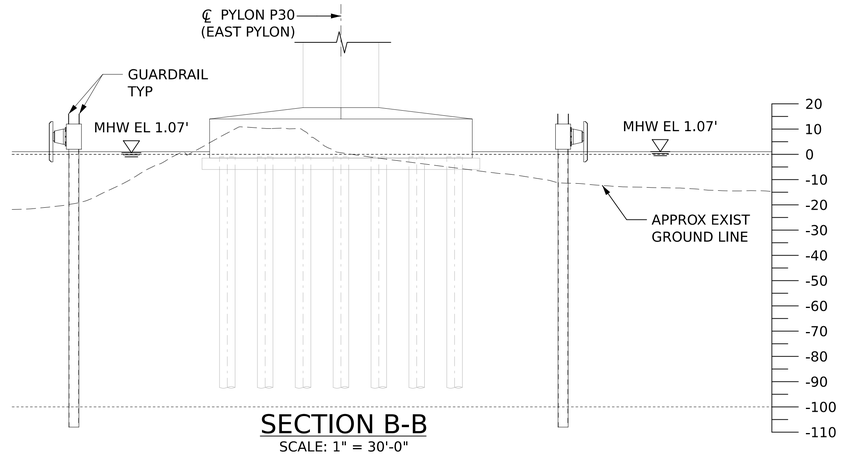
WEST PYLON

SECTION A-A

SCALE: 1" = 30'-0"



EAST PYLON



SECTION B-B

SCALE: 1" = 30'-0"

NOTES:

1. FOR CONCRETE AND STEEL SPECIFICATIONS, SEE MAIN SPAN BRIDGE GENERAL NOTES SHEET.
2. FOR HANDRAIL DETAILS, SEE STANDARD IFS-4 BRIDGE SPECIAL PROJECT DRAWING.

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A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

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DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
FENDER AND BULKHEAD
PLANS AND SECTIONS

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1003

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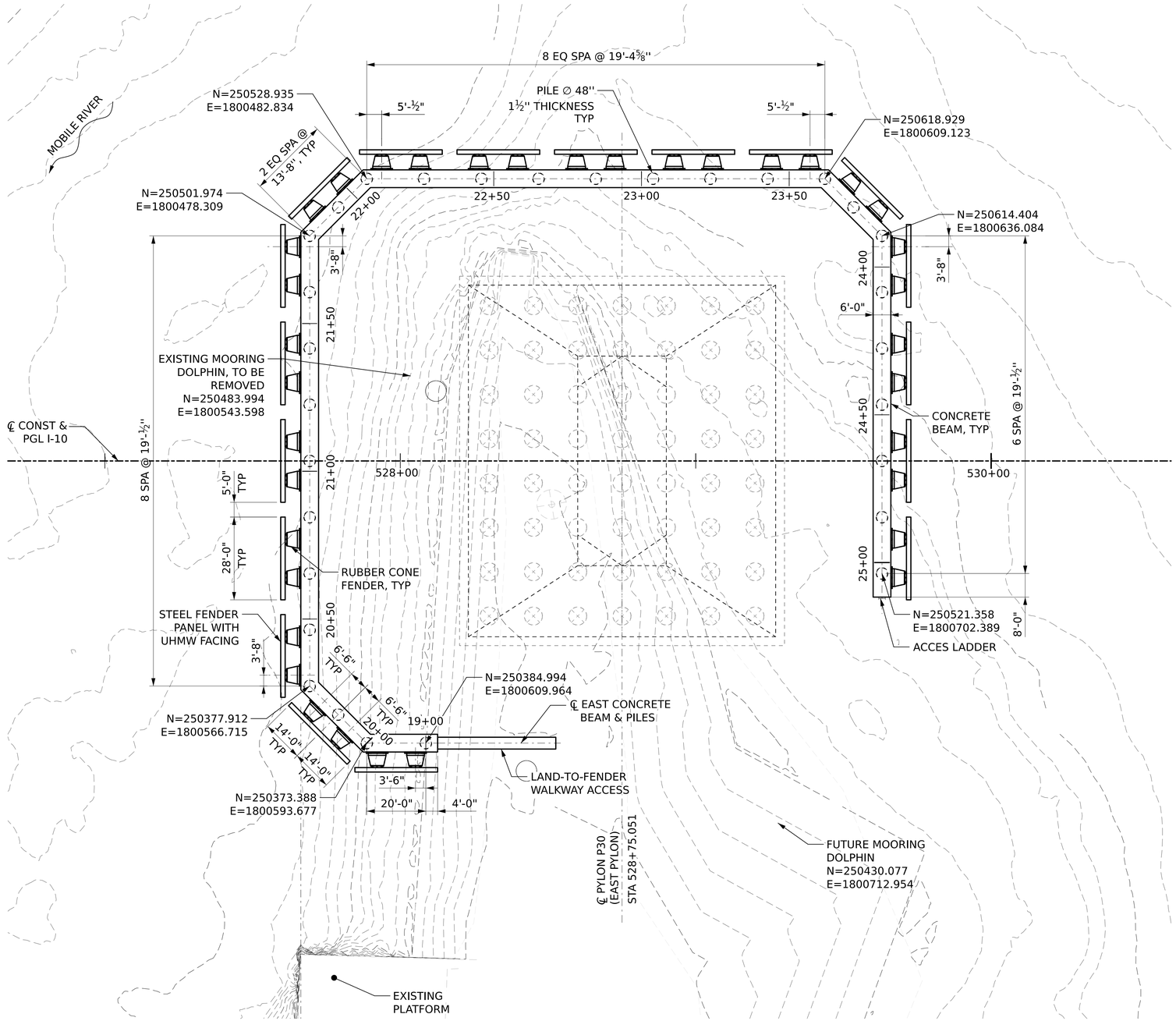

PROTECTION WALL PLAN (EAST PYLON)

SCALE: 1" = 20'-0"

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A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

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COUNTY(S)

DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

FENDER SYSTEM

EAST PYLON P30

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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1004

PRELIMINARY
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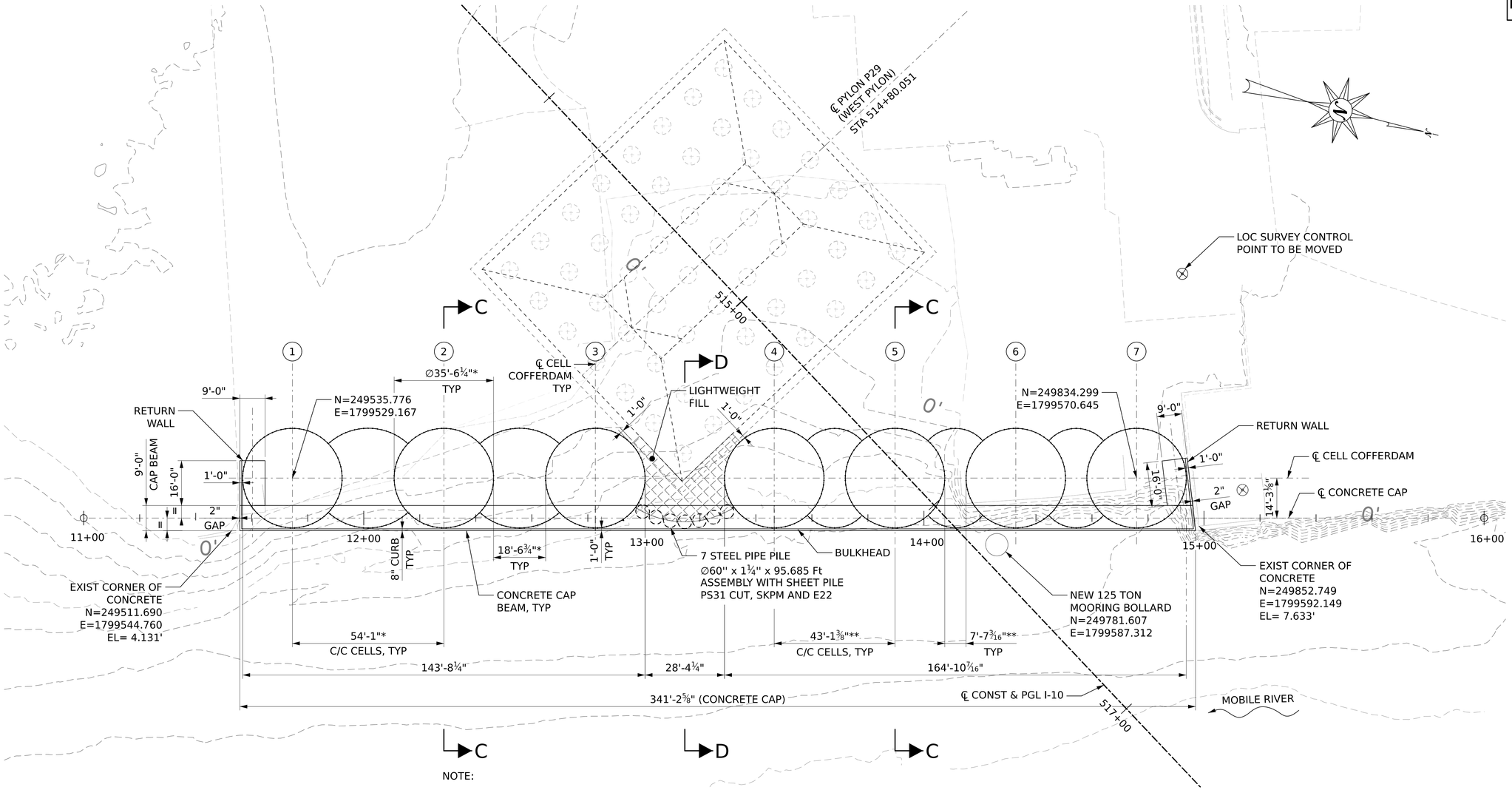

NOTE:

* ON THE LEFT FOOTING P29.
** ON THE RIGHT FOOTING P29.

BULKHEAD WALL PLAN (WEST PYLON P29)

SCALE: 1" = 20'-0"

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	05/16/2025	INTERIM 60% SUBMITTAL

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PE STAMP DATE | PE STAMP DATE | QR CODE

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BIN(S)

COUNTY(S)
MOBILE

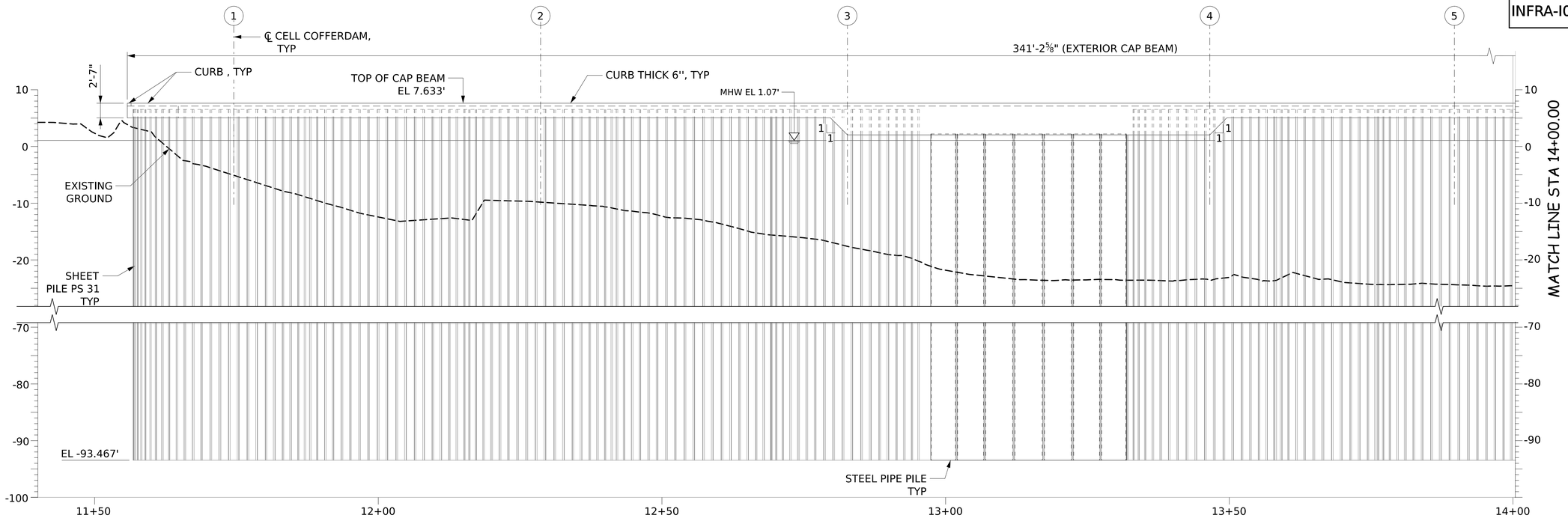
DESIGNER: K. JACOBSON DATE: 05/16/2025

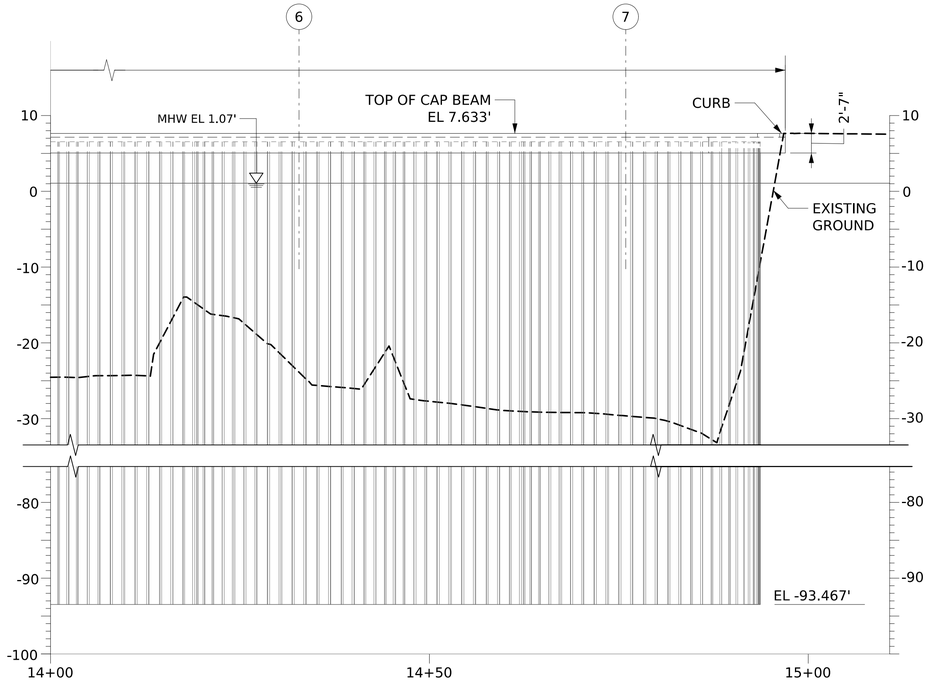
BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
BULKHEAD
WEST PYLON P29

2025-05-13 14:10:22 Siyoucef.Sitayeb MRB-S04-PP-1004.dgn

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1010





NOTE:

1. FOR CLARTY NEW 125 TON MOORING BOLLARD AND HANDRAIL ARE NOT SHOWN ON ELEVATION.
2. EXTEND MARINE COATING FROM TOP OF SHEET PILE TO ELEVATION -60FT.

PROFILE ALONG ℄ BULKHEAD

SCALE: 1" = 10'-0"

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	05/16/2025	INTERIM 60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: K. JACOBSON DATE: 05/16/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
BULKHEAD
PROFILE WEST BULKHEAD

MRB-S04-PP-1010.dgn
Siyoucef.Sitayeb
14:19:31
2025-05-13

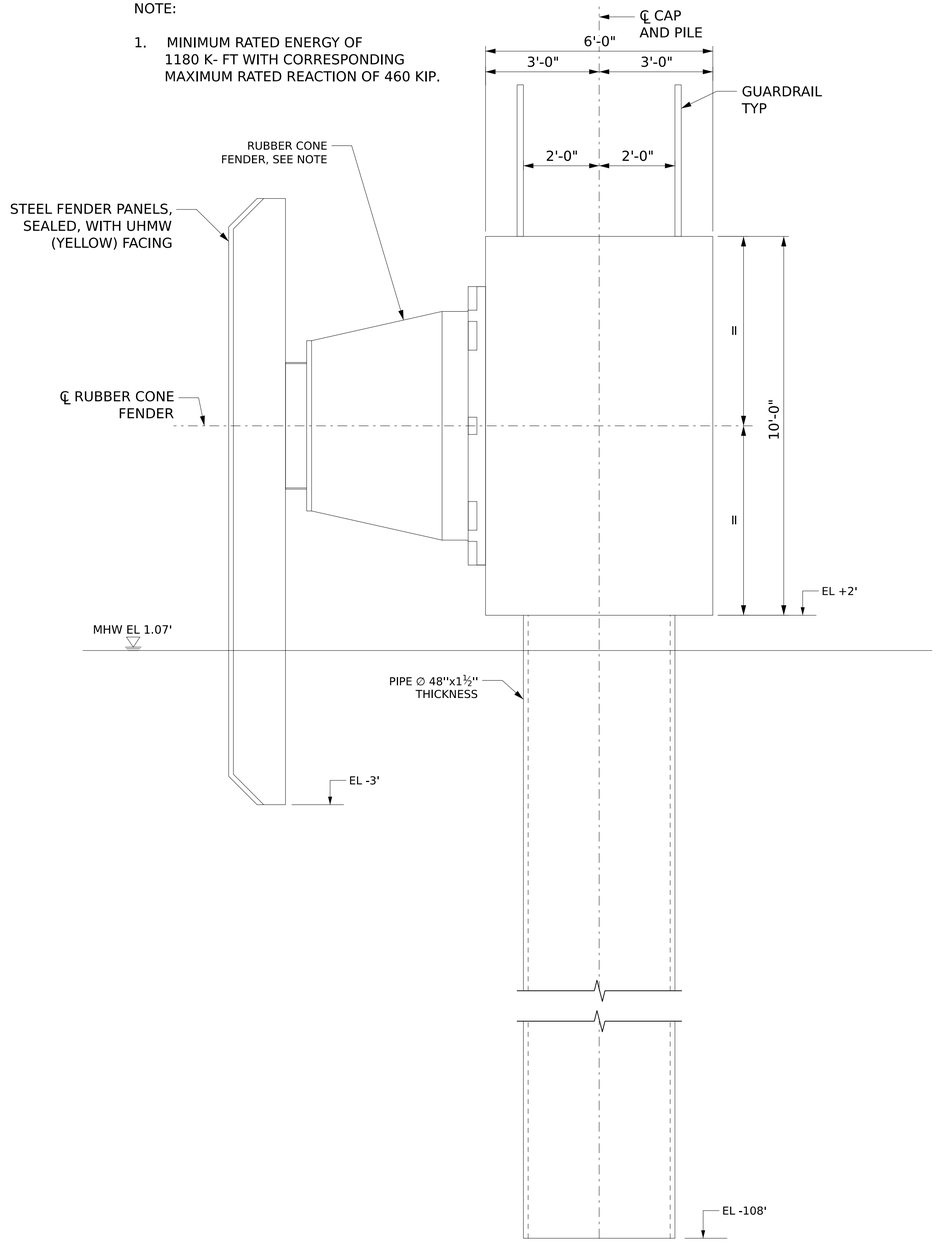
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1011

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

2"
1"
0
SHEET REFERENCE

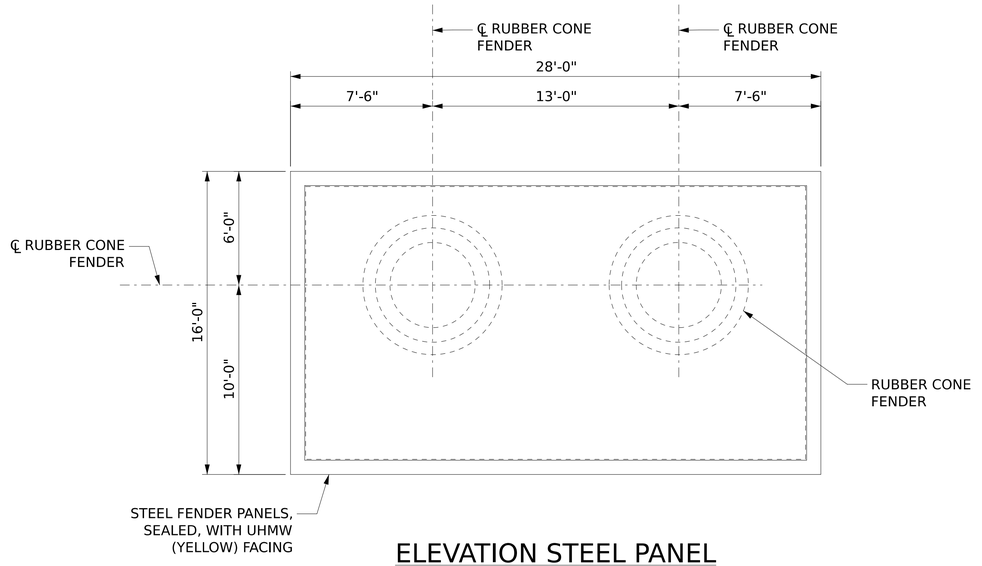
NOTE:

1. MINIMUM RATED ENERGY OF 1180 K- FT WITH CORRESPONDING MAXIMUM RATED REACTION OF 460 KIP.



TYPICAL SECTION AT THE FENDER

SCALE: 1/2" = 1'-0"



ELEVATION STEEL PANEL

SCALE: 1/4" = 1'-0"

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

PE STAMP DATE

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QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)
MOBILE

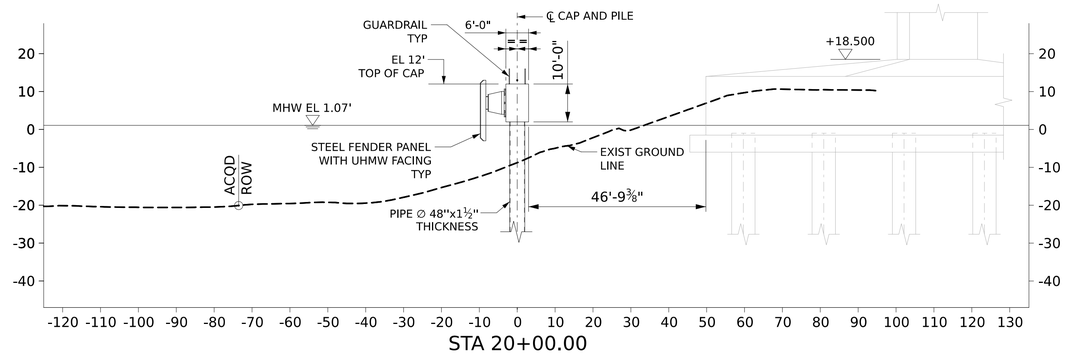
DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
FENDER SYSTEM
TYPICAL SECTION

MRB-S04-PP-1011.dgn
Siyoucef.Sltayeb
1:20:11 PM
2/6/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1012



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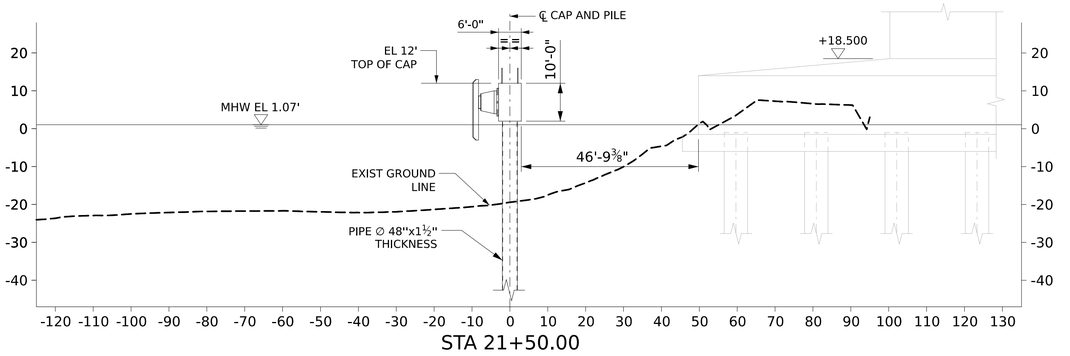

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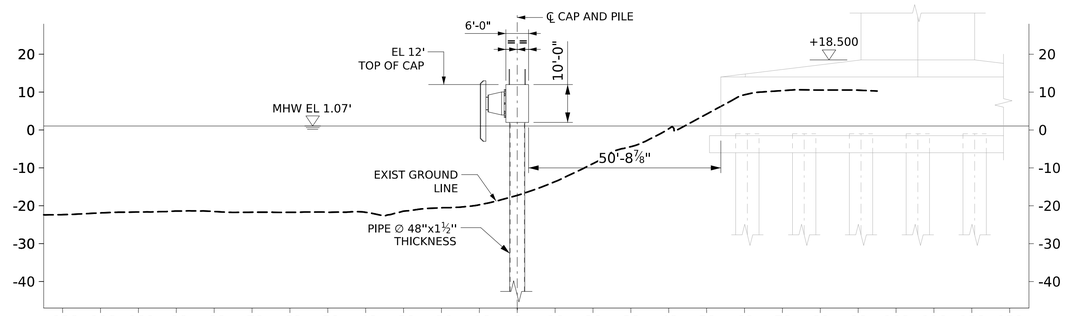

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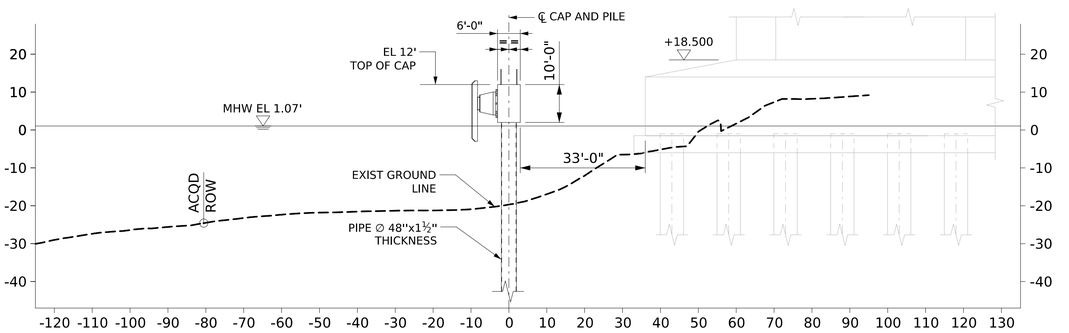

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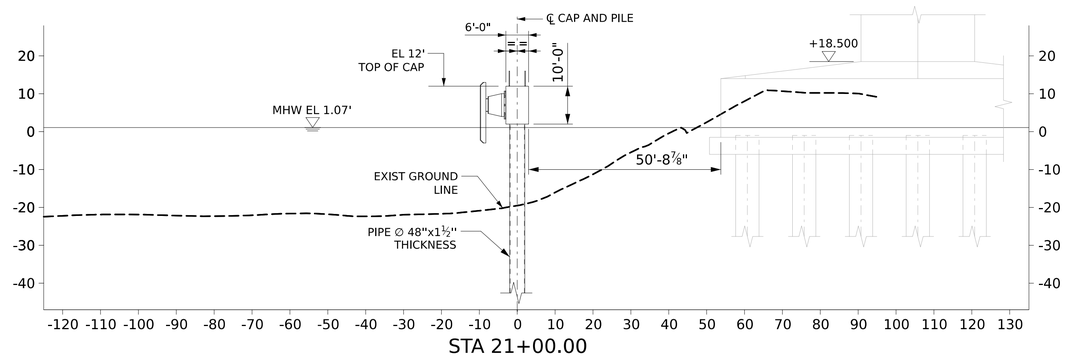

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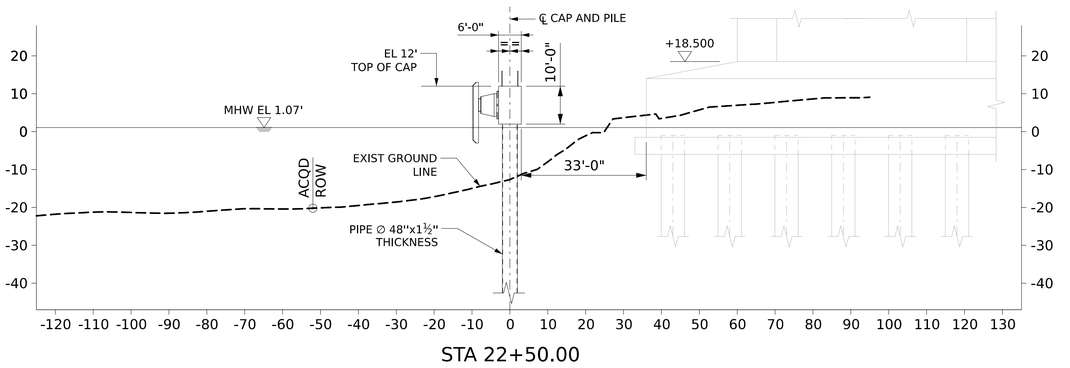

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SECTIONS AT THE FENDER

SCALE: 1" = 20'-0"

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

SHEET TITLE

MAIN SPAN BRIDGE

FENDER SYSTEM

SECTIONS (1 OF 2)

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

MRB-S04-PP-1012.dgn

Siyoucef.Sitayeb

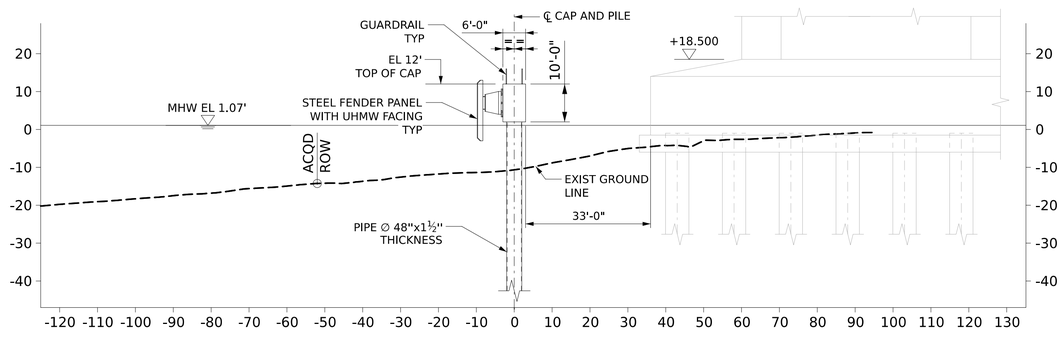
10:34:31 AM

2/6/2025

SHEET REFERENCE 0 1" 2"

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1013

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION



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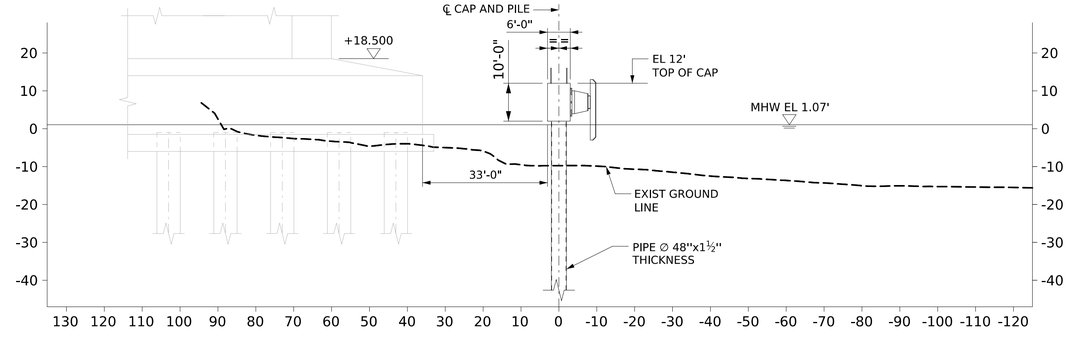

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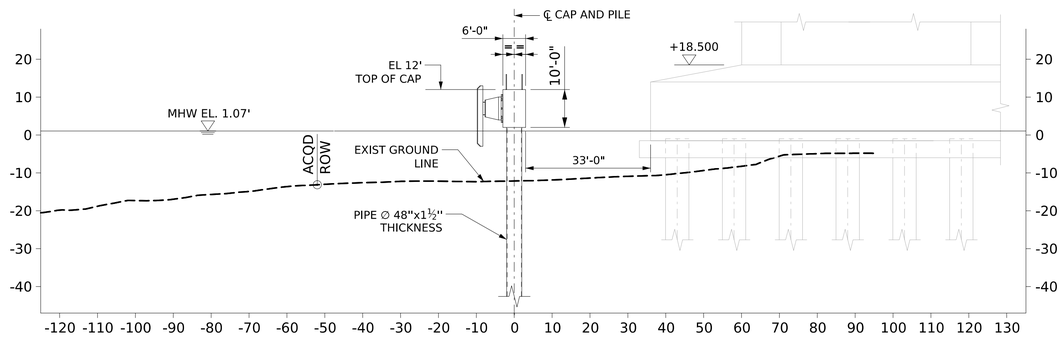

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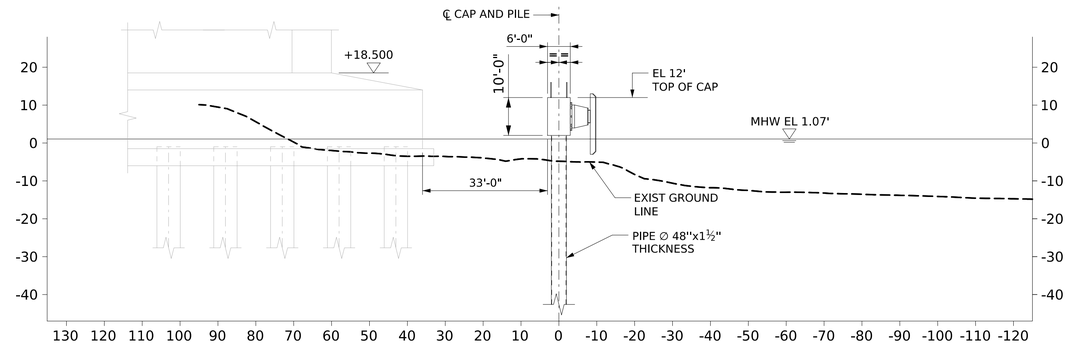

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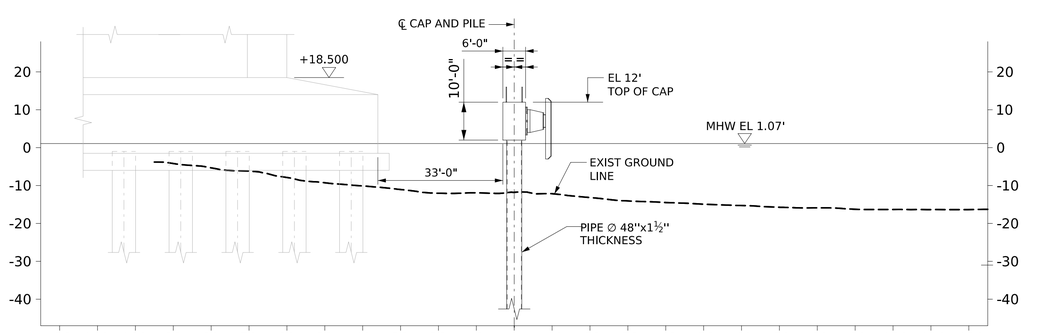

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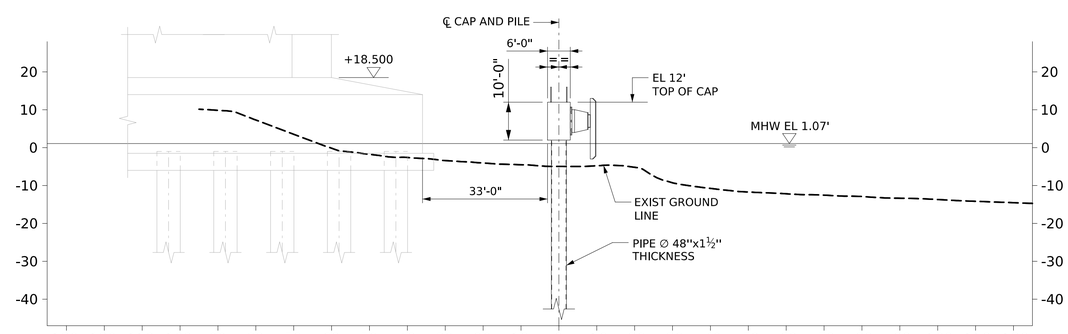

STA 25+20.00

SECTIONS AT THE FENDER '' CONTINUED''

SCALE: 1" = 20'-0"

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

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Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

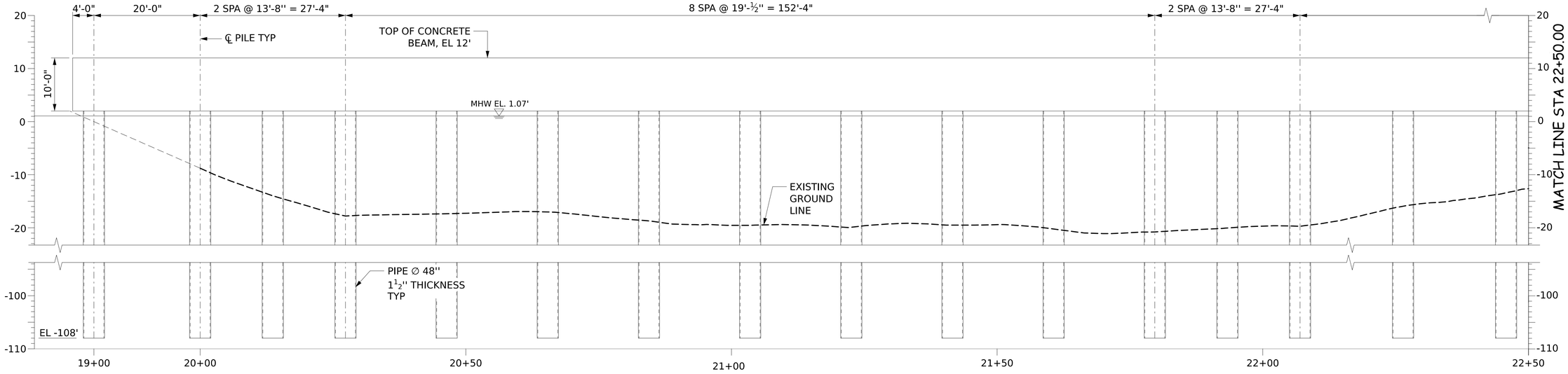
SHEET TITLE

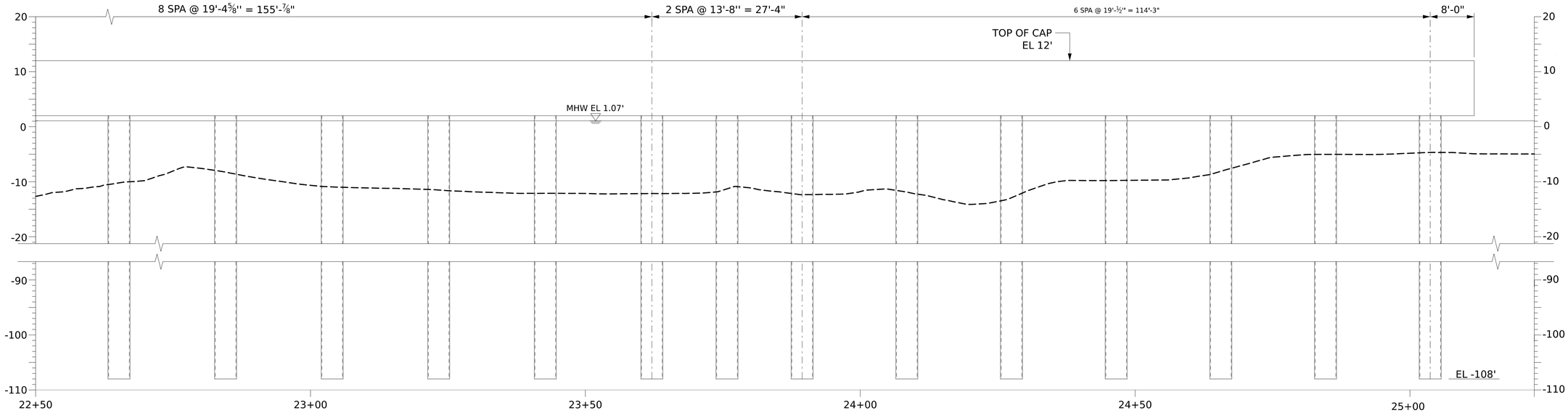
MAIN SPAN BRIDGE
FENDER SYSTEM
SECTIONS (2 OF 2)

MRB-S04-PP-1013.dgn
Siyoucef.Sitayeb
10:36:57 AM
2/6/2025

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1014

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION





PROFILE ALONG ℄ EAST CONCRETE BEAM

SCALE: 1" = 10'-0"

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ACCEPTED BY

BRIDGE ENGINEER DATE

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	01/24/2025	INTERIM 60% SUBMITTAL

PE STAMP DATE

PE STAMP DATE

QR CODE

Kiewit

KIEWIT MASSMAN TRAYLOR A JOINT VENTURE

SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL

60%

BIN(S)

COUNTY(S)

MOBILE

DESIGNER: K. JACOBSON DATE: 01/24/2025

BRIDGE SHEET NO. OF

SHEET TITLE

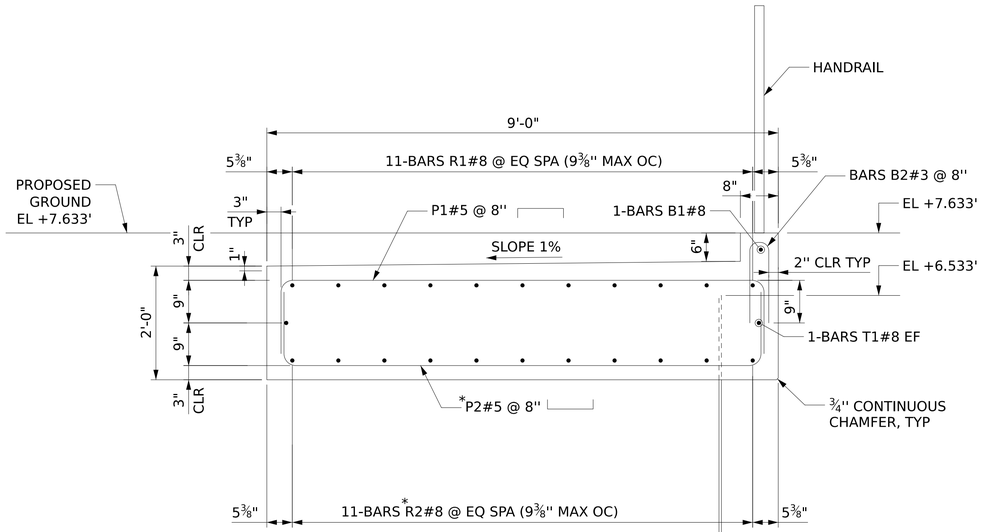
MAIN SPAN BRIDGE
FENDER SYSTEM
PROFILE EAST FENDER

MRB-S04-PP-1014.dgn
Siyoucef.Sitayeb
10:39:03 AM
2/6/2025

SHEET REFERENCE 0 1" 2"

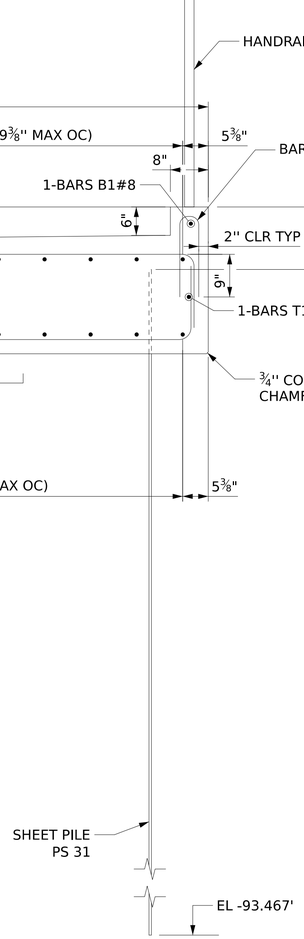
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
INFRA-I010(353)	2025	S04-PP-1015

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

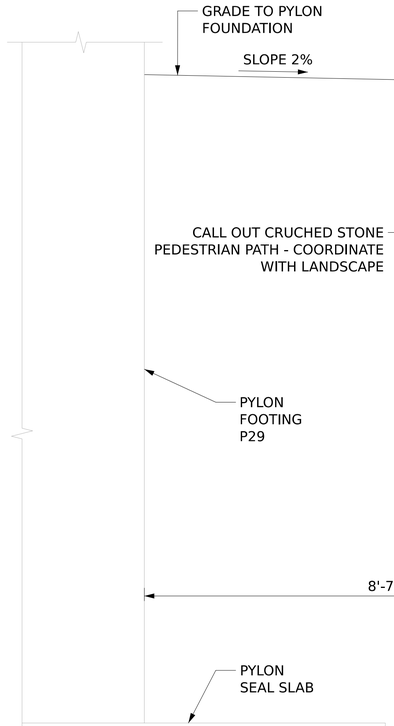


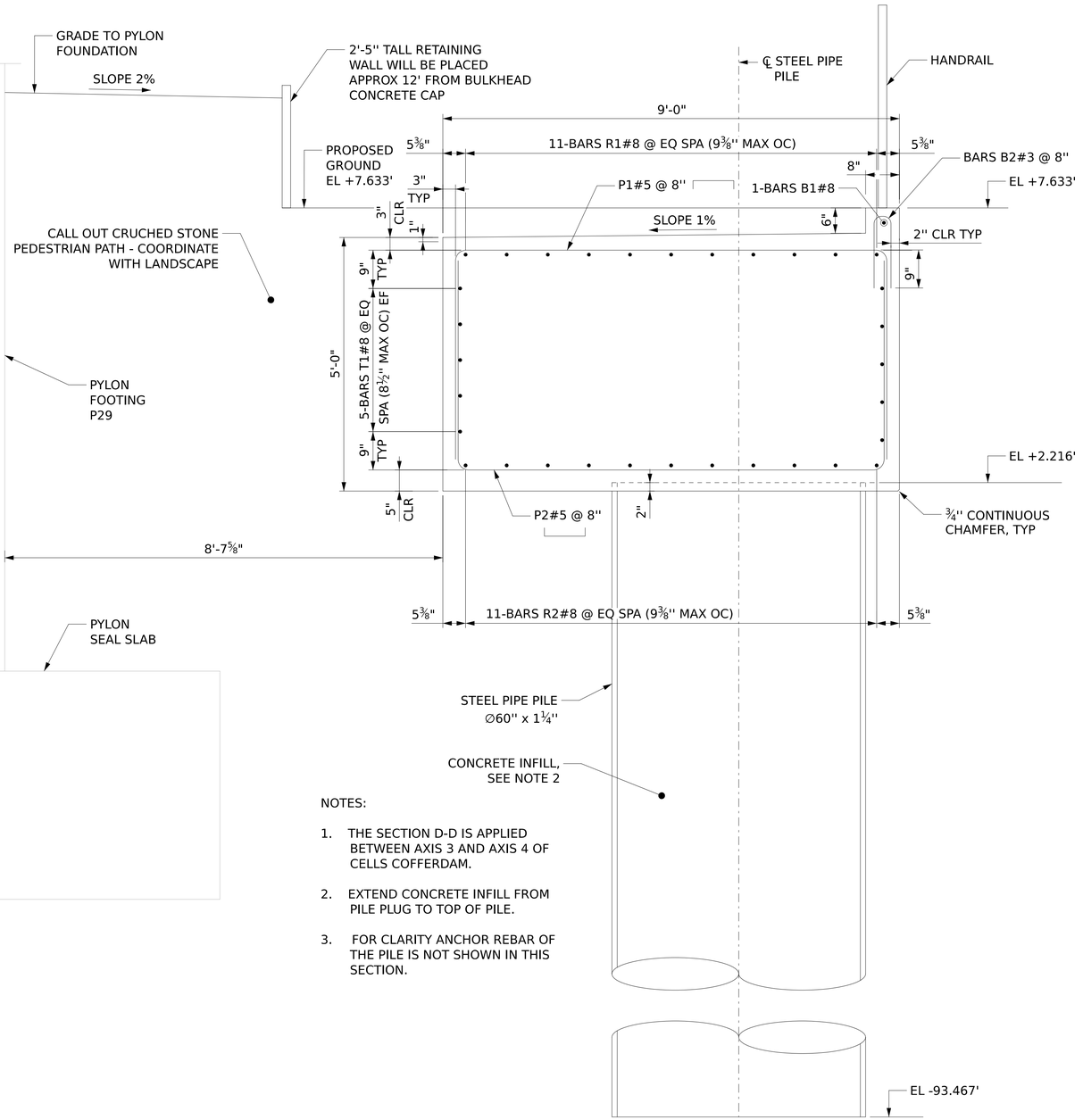
NOTE:

(*) BURN HOLES IN SHEET PILE TO PASS REINFORCEMENT THROUGH.



SECTION C-C
SCALE: 3/4" = 1'-0"





NOTES:

1. THE SECTION D-D IS APPLIED BETWEEN AXIS 3 AND AXIS 4 OF CELLS COFFERDAM.
2. EXTEND CONCRETE INFILL FROM PILE PLUG TO TOP OF PILE.
3. FOR CLARITY ANCHOR REBAR OF THE PILE IS NOT SHOWN IN THIS SECTION.

SECTION D-D
SCALE: 3/4" = 1'-0"

ALABAMA DEPARTMENT OF TRANSPORTATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
A	KIE	05/16/2025	INTERIM 60% SUBMITTAL

PE STAMP DATE | PE STAMP DATE | QR CODE

Kiewit | KIEWIT MASSMAN TRAYLOR A JOINT VENTURE | SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

PLAN SUBMITTAL
60%

BIN(S)
COUNTY(S)
MOBILE

DESIGNER: K. JACOBSON DATE: 05/16/2025

BRIDGE SHEET NO. OF

SHEET TITLE
MAIN SPAN BRIDGE
BULKHEAD - CAP BEAM
TYPICAL SECTIONS REINFORCEMENT

MRB-S04-PP-1015.dgn
Siyoucef.Sitayeb
17:53:02
2025-05-12