EAST BRIDGE PLANS FOR

PARAGON STAR DEVELOPMENT - LEE'S SUMMIT, MO

View High Dr, View High Pkwy, River Rd Sections 33 & 34-Township 48-Range 32

Summary of Quantities

_				
	Item No.	Description	Unit	Unit Quantity
Ī	1	East Bridge	L.S.	1

PROJECT BENCHMARK

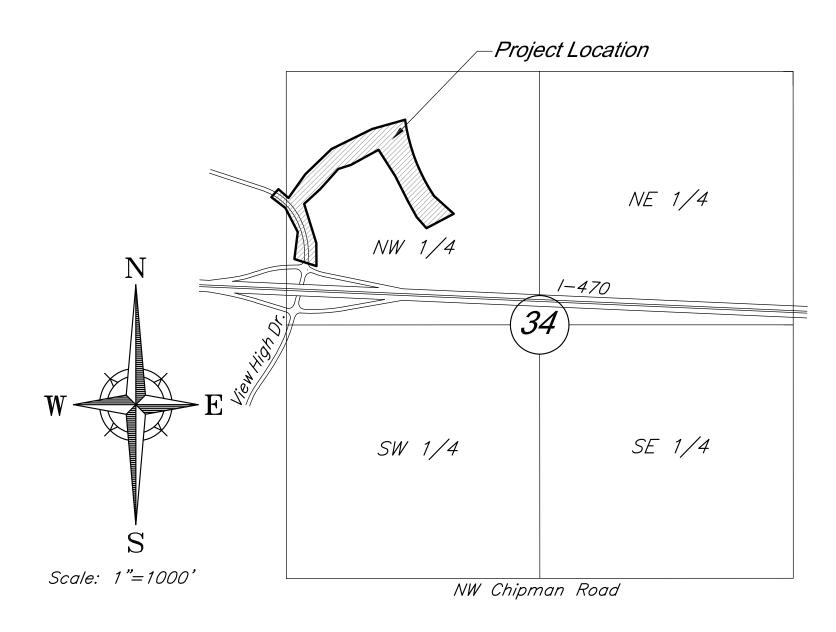
BM #11 — Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive. FI = 8.3.3.80

UTILITY CONTACTS

Sanitary Sewers	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 (816) 969–1922 email: jeff.thorn@cityofLS.net	Gas	Mr. Donnie Richards Missouri Gas Energy 7500 E 35th Terrace Kansas City, MO 64129 (816) 472–9464 Fax (816) 472–3488 email: donnie.richards@sug.com
	Mr. Jeff Shook Little Blue Valley Sewer District 21101 East 78 Highway Independence, MO 64057 (816) 285–1522 email: jshook@lbvsd.net	Cable Television	Mr. Greg Thomas Time Warner Cable 8221 W. 119th Street Overland Park, KS 66213 (913) 643–1950
Water	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 (816) 969–1922 email: jeff.thorn@cityofLS.net	Telephone	`email: greg.thomas@twcable.com Ms. Glenda Charles AT&T 1425 Oak Street Kansas City, MO 64106 (816) 365–1669
Electric Service	Mr. Nathan Michael Evergy P.O. Box 418679 Kansas City, MO 64141 (816) 220—5210 Fax (816) 245—3623 email: Nathan.Michael@kcpl.com		Fax (816) 275—1109 email: gc6954@att.com

City of Lee's Summit Jackson County, Missouri

Design Speed = 40 mph



VICINITY MAP

Section 33 & 34-T48N-R32W

DEVELOPED AND OWNED BY:
PARAGON STAR LLC
801 NORTHWEST COMMERCE CENTER
LEE'S SUMMIT, MISSOURI 64086
PHONE: (816) 802-6801
CONTACT: Mr. Flip Short
EMAIL: fshort@legacytouch.com

PREPARED & SUBMITTED BY:
GEORGE BUTLER ASSOCIATES, INC.
9801 RENNER BOULEVARD
LENEXA, KANSAS 66219
PHONE: 913-492-0400
FAX: 913-577-8312
CONTACT: BRAD BURTON P.E.
EMAIL: BBURTON@GBATEAM.COM

INDEX OF SHEETS

Sht. No.	Description
1	GENERAL PLAN AND ELEVATION
2	GENERAL NOTES
<i>3-5</i>	DETAILS OF END BENT NO. 1
6	VERTICAL DRAIN AT END BENTS
<i>7-8</i>	DETAILS OF INTERMEDIATE BENT NO. 2
9-10	DETAILS OF INTERMEDIATE BENT NO. 3
<i>11-13</i>	DETAILS OF END BENT NO. 4
<i>14-15</i>	GIRDER DETAILS
<i>16</i>	DETAILS OF CONCRETE DIAPHRAMS AT
	INTERMEDIATE BENTS 2 & 3
<i>17</i>	DETAILS OF PRESTRESSED PANELS
<i>18</i>	SLAB DETAILS
<i>19</i>	PLAN OF SLAB SHOWING REINFORCING
20	SLAB DETAILS
21	CONVENTIONAL-FORMED BARRIER CURB
22	CONVENTIONAL-FORMED LEFT BARRIER CURB AT
	END BENTS ON CONCRETE APPROACH SLAB
23	CONVENTIONAL-FORMED RIGHT BARRIER CURB
	AT END BENTS ON WING
24	GENERAL PLAN AND ELEVATION OF
	AESTHETIC DETAILS, LIGHTING AND CONDUIT
<i>25</i>	MEDIAN AND CURB DETAILS
26-27	CONDUIT DETAILS
28	DETAILS OF BRIDGE APPROACH SLAB (MAJOR ROAD)
29	AS-BUILT PILE DATA
<i>30</i>	BORING DATA
<i>A01.00</i>	GENERAL-SITE PLAN
<i>A01.10</i>	PLANS
A03.20	EAST BRIDGE - NORTH RAIL RUN
<i>A03.21</i>	EAST BRIDGE - SOUTH RAIL RUN
A03.22	EAST BRIDGE - MIDDLE RAIL RUN
<i>A05.20</i>	RAIL DETAILS
<i>A05.21</i>	RAIL DETAILS
A05.30	LIGHT MOUNT DETAILS
<i>A06.10</i>	RAIL VERT TYPES
<i>A6.14</i>	SCHEDULE -EAST BRIDGE NORTH RAIL RUN
<i>A6.15</i>	SCHEDULE -EAST BRIDGE SOUTH RAIL RUN
<i>A6.16</i>	SCHEDULE - EAST BRIDGE MIDDLE RAIL RUN



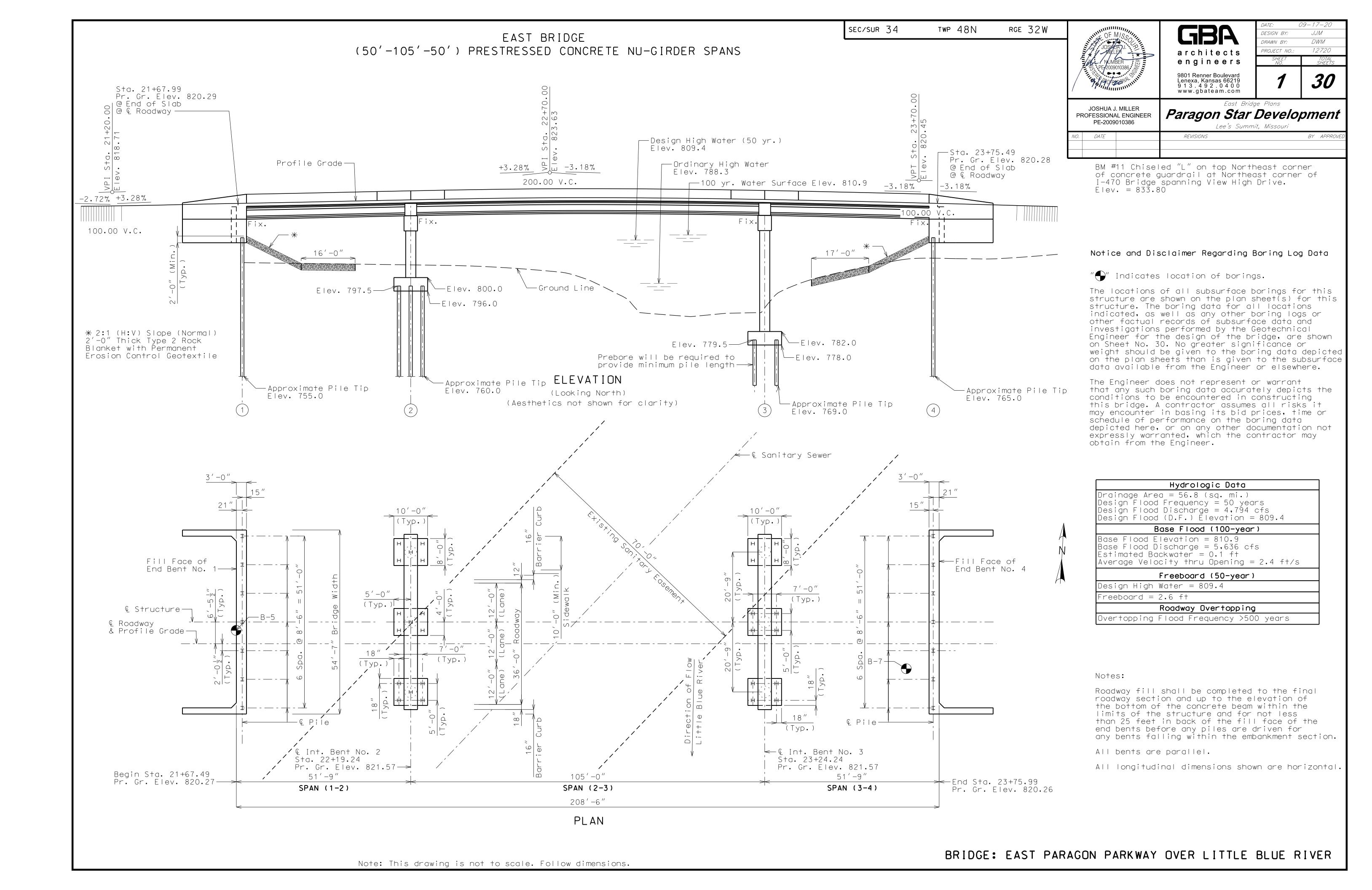
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PROJECT ENGINEER:

9/17/20 DATE:

Missouri One Call System 1-800-344-7483 (DIG-RITE)

9/17/20 - FOR CONSTRUCTION



General Notes: Design Specifications: 2012 AASHTO LRFD Bridge Design Specifications (6th Ed.) and 2013 Interim Revisions. Seismic Design Category = A All referenced specifications shall refer to Missouri Standard Specifications for Highway Construction unless otherwise noted. Construction of the bridge shall conform to the MoDOT standard specificiation. Payment for construction of the bridge shall be completely covered by the lump sum. Design Loading: Vehicular = HL-93 Future Wearing Surface = 35 lb/sf Earth = 120 lb/cfEquivalent Fluid Pressure = 70 lb/cf Design Unit Stresses: f'c = 4,000 psiClass B Concrete (Substructure) f'c = 4.000 psiClass B-1 Concrete (Barrier Curb) Class B-2 Concrete (Superstructure except f'c = 4,000 psiBarrier Curb Reinforcing Steel (Grade 60) fy = 60,000 psiStructural Steel HP Pile (ASTM A709 Grade 50S) fy = 50,000 psiFor Precast Prestressed Panel Stresses, see Sheet No. 17. For Prestressed Girder Stresses, See Sheets No. 14 & 15. Neoprene Pads: Plain and Laminated Neoprene Bearing Pads shall be 60 durometer and shall be in accordance with Sec 716. Joint Filler: All joint filler shall be in accordance with Section 1057 for preformed sponge rubber expansion and partition joint filler, except as noted. Reinforcing Steel: Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown. All reinforcement shall be epoxy coated. Minimum clearance between galvanized piles and uncoated (plain) bar supports shall be 1 1/2". Nylon, PVC, or other polyethylene spacers shall be used to maintain clearance. Nylon cable ties shall be used to bind the spacers to the reinforcement. Miscellaneous: City Construction personnel will indicate the type of joint filler option used under the precast panels for this structure: ☐ Constant Joint Filler

	FOUNDATION DATA										
TYPE	DESIGN		BENT NUMBER								
1116	DATA	1	2	3	4						
	Pile Type and Size		HP12×53	HP12×53	HP12×53	HP12x53					
	Number	ea	7	15	12	7					
	Approximate Length per Each	f+	55	38	10	45					
	Pile Point Reinforcement	ea	7	15	12	7					
Load Bearing	Min. Galvanized Penetration (Elev.)	f+	full depth	full depth	full depth	full depth					
Pile	Est. Max. Scour Depth 500 (Elev.)	++	794	790	792	786					
	Pile Driving Verification Method		WEAP	DT	DT	WEAP					
	Resistance Factor		0.5	0.65	0.65	0.5					
	Minimum Nominal Axial Compressive Resistance	kip	428	512	540	434					

WEAP = Wave Equation Analysis of Piles

☐ Variable Joint Filler

Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor

Prebore for piles at Bent No. 3 to elevation 769.0.

HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702.

All piles shall be galvanized to the full length of pile.

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

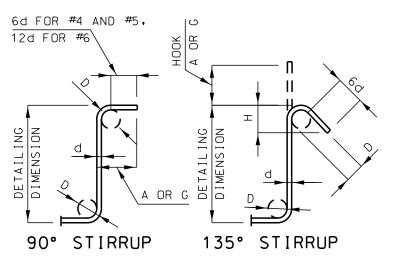
The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviations in penetration less than 5 feet of the minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II, or III.

Contractor to provide shoring plan for piers signed and sealed by a professional engineer licensed in the State of Missouri.

For all drill and grout applications the contractor shall use one of the qualified resin anchor systems in accordance with Sec. 1039

Contractor shall provide rebar shop drawings for review prior to ordering reinforcement.



DETAILING DIMENSION

DETAILING DIMENSION

90°

4d OR 2 1/2" MIN.

STI	STIRRUP HOOK DIMENSIONS							
	GRADES 40 - 50 - 60 KSI							
BAR	D	90° HOOK	135° HOOK					
SIZE	(IN.)	HOOK A OR G	HOOK A OR G	APPROX.				
#4	2"	4 1/2"	4 1/2"	3"				
# 5	2 1/2"	6"	5 1/2"	3 3/4"				
#6	4 1/2"	12"	8"	4 1/2"				
LOTE LINESCO OTHERWISE NOTED								

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.

	END HO	OK DIN	MENSION	IS				
		ALL GRADES						
BAR SIZE	D (IN.)	180°	HOOKS	90° HOOKS				
SIZE	(111.)	A OR G	J	A OR G				
#3	2 1/4"	5″	3"	6"				
#4	3 "	6"	4"	8″				
# 5	3 3/4"	7″	5 "	10"				
#6	4 1/2"	8″	6"	12"				
#7	5 1/4"	10"	7 "	14"				
#8	6"	11"	8"	16"				
#9	9 1/2"	15"	11 3/4"	19"				
# 1 O	10 3/4"	17"	13 1/4"	22"				
#11	12"	19"	14 3/4"	2'-0"				
#14	18 1/4"	2'-3"	21 3/4"	2'-7"				

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/ /	**************************************	1,

JOSHUA J. MILLER

PROFESSIONAL ENGINEER PE-2009010386

DATE

architects engineers 9801 Renner Boulevard Lenexa, Kansas 66219 9 1 3 . 4 9 2 . 0 4 0 0

REVISIONS

DWM DRAWN BY: 12720 PROJECT NO.: 101AL SHFFTS 30

JJM

BY APPROVI

DESIGN BY:

www.gbateam.com East Bridge Plans

Paragon Star Development

[END HO	OK DIN	MENSION	IS				
		ALL GRADES						
BAR	D	180°	180° HOOKS					
SIZE	(IN.)	A OR G	J	A OR G				
#3	2 1/4"	5″	3"	6"				
#4	3"	6"	4"	8"				
#5	3 3/4"	7″	5 "	10"				
#6	4 1/2"	8"	6"	12"				
#7	5 1/4"	10"	7 "	14"				
#8	6"	11"	8"	16"				
#9	9 1/2"	15"	11 3/4"	19"				
#10	10 3/4"	17"	13 1/4"	22"				
#11	12"	19"	14 3/4"	2'-0"				
#14	18 1/4"	2'-3"	21 3/4"	2'-7"				

NOTE:

ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET. E = EPOXY COATED REINFORCEMENT.

S = STIRRUP.

X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.

V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.

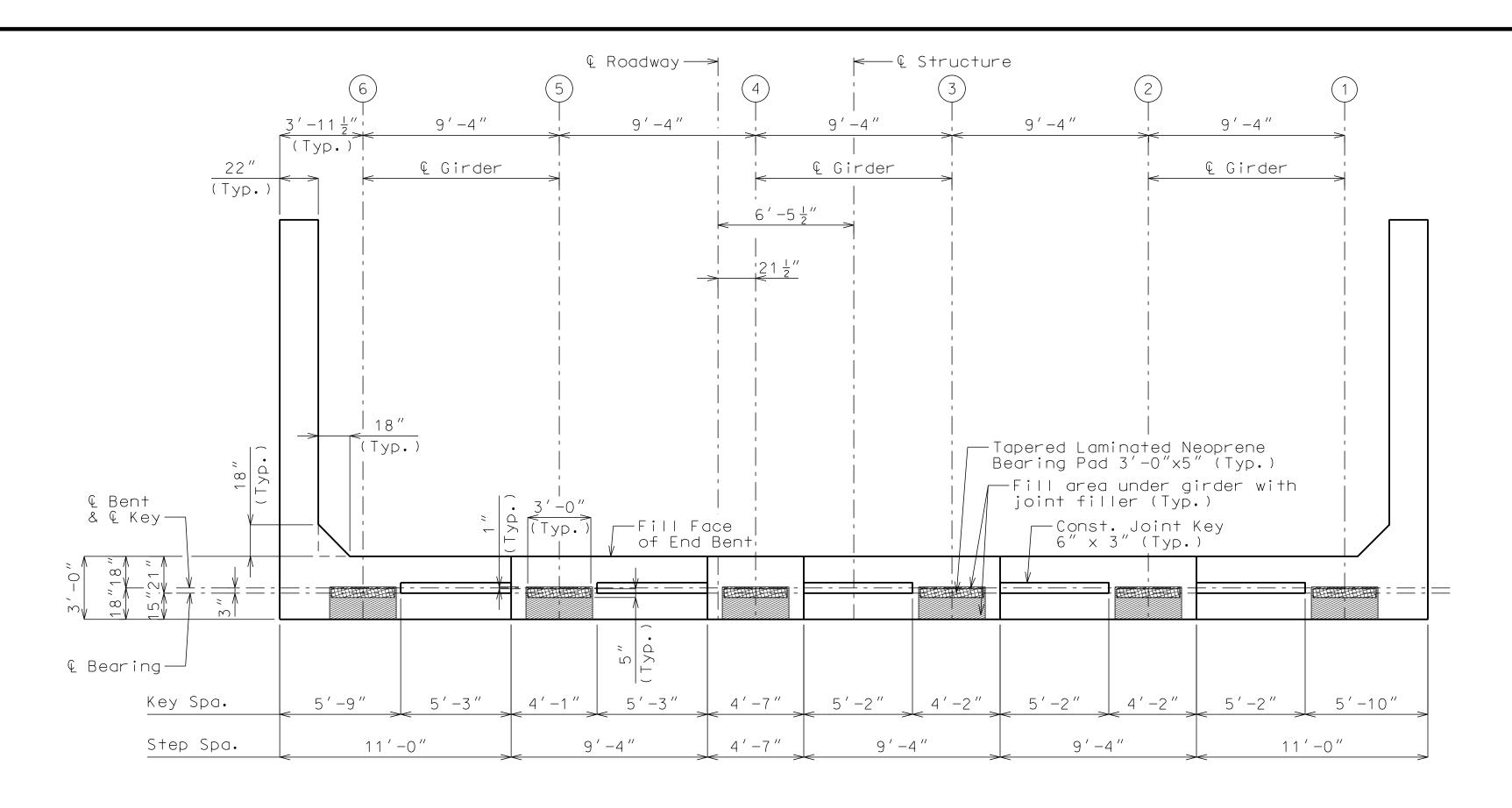
NO. EA. = NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)

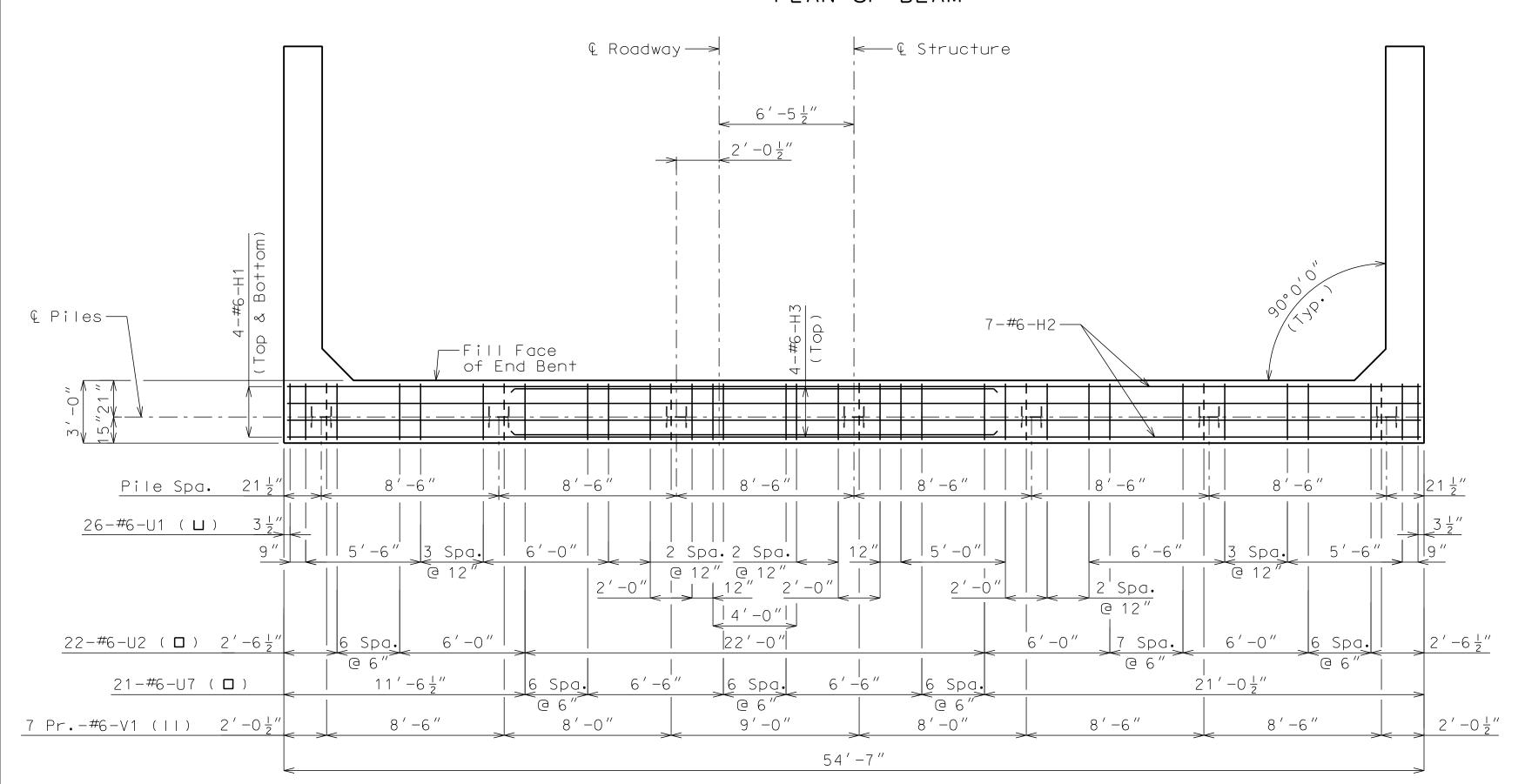
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH. PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS, LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.

REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.



PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT

(Note: Steps and keys not shown for clarity)

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF END BENT NO. 1



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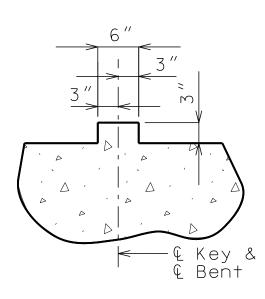
JJM

JOSHUA J. MILLER PROFESSIONAL ENGINEER PE-2009010386

Paragon Star Development

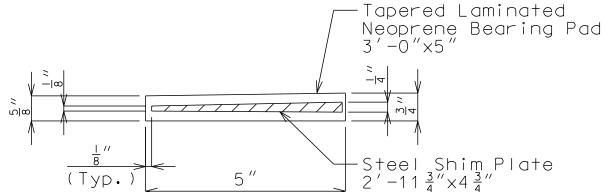
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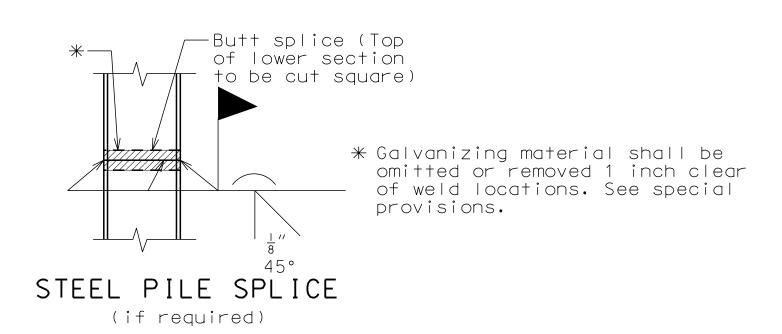


SECTION THRU KEY





BEARING PAD DETAIL

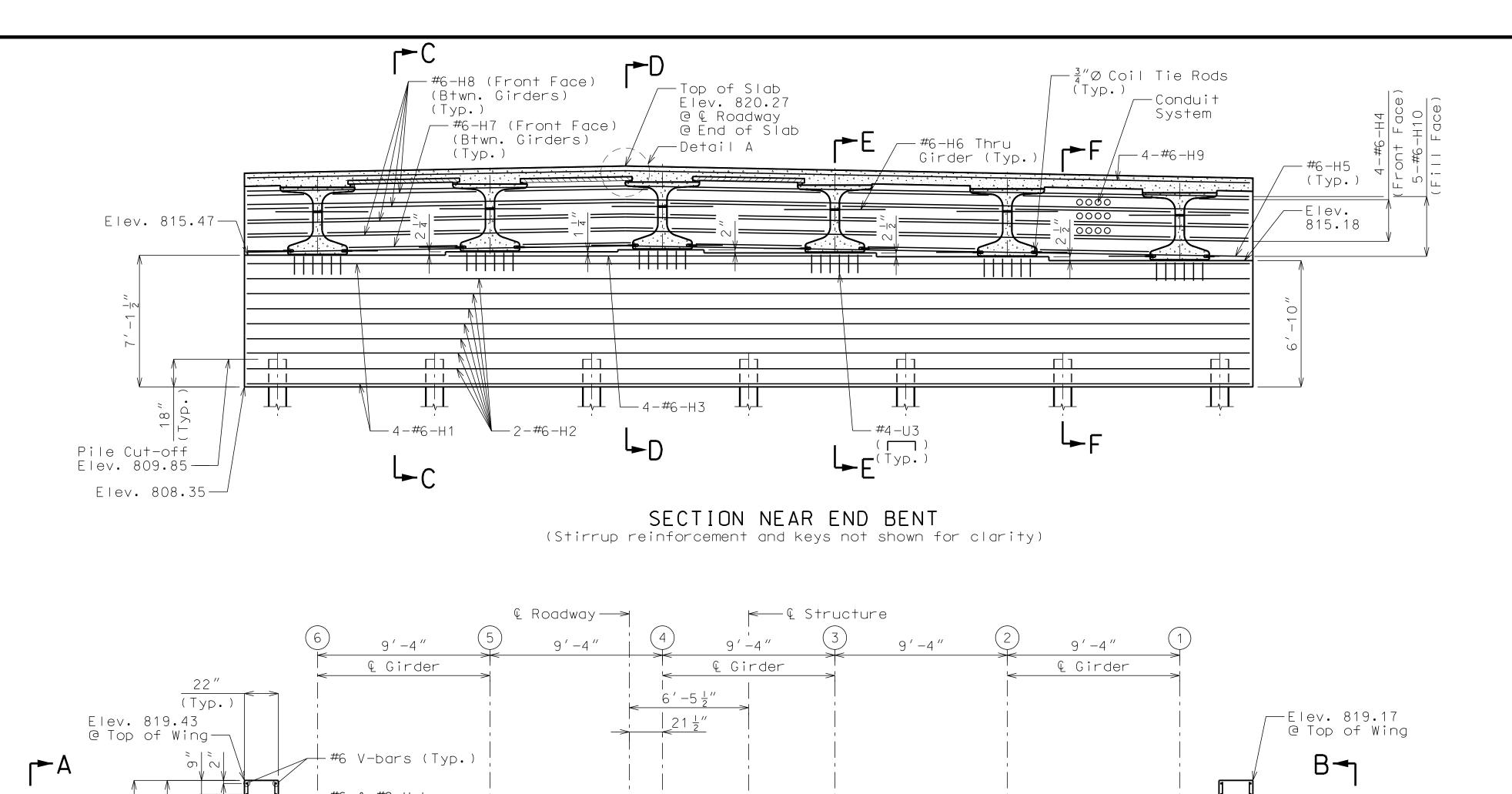


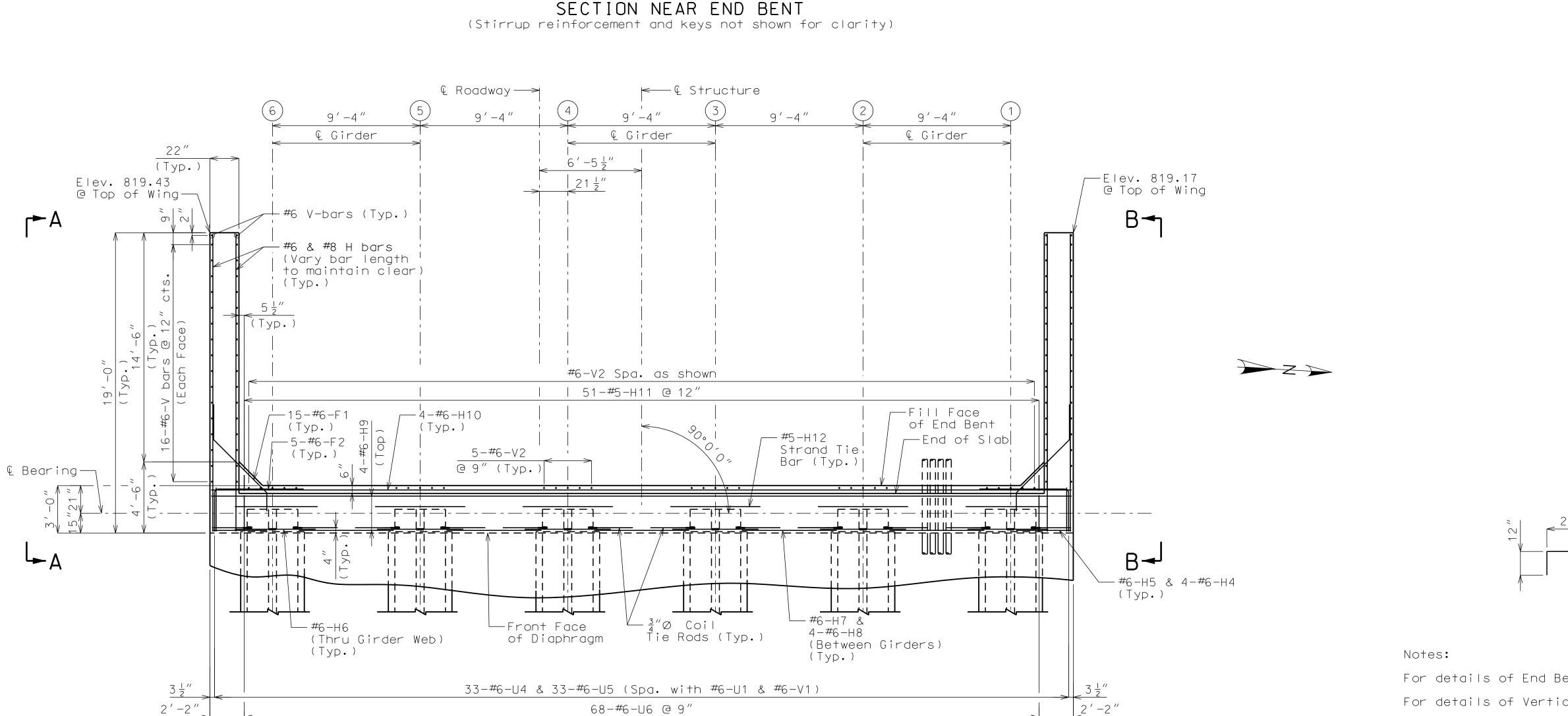
Notes:

For details of End Bent No. 1 not shown, see Sheets No. 4 & 5. For details of Vertical Drain at End Bents, see Sheet No. 6. Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least $1\frac{1}{2}''$.

All concrete in the end bent above top of beam and below top of slab shall be Class $B-2 \cdot$

For reinforcement of Barrier Curb, see Sheets No. 21-23 and 26.



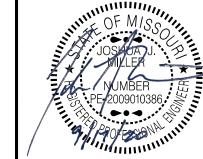


PART PLAN
(Note: Steps and keys not shown for clarity)

DETAILS OF END BENT NO. 1

Note: This drawing is not to scale. Follow dimensions.

54′-7″



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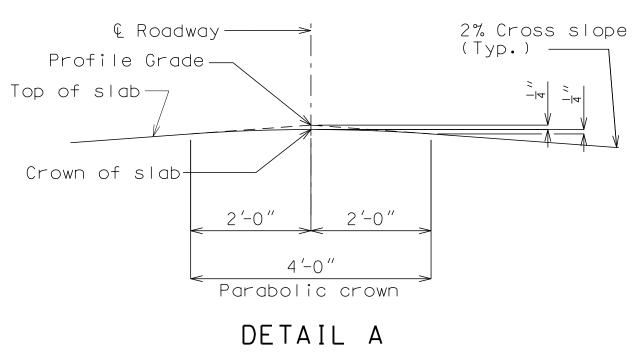
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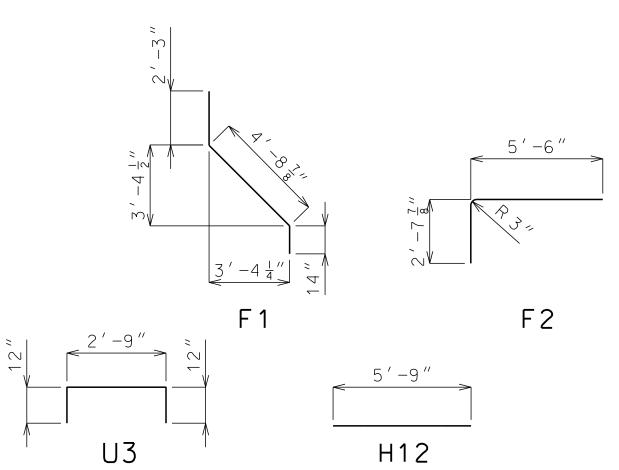
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PROFESSIONAL ENGINEER
PE-2009010386

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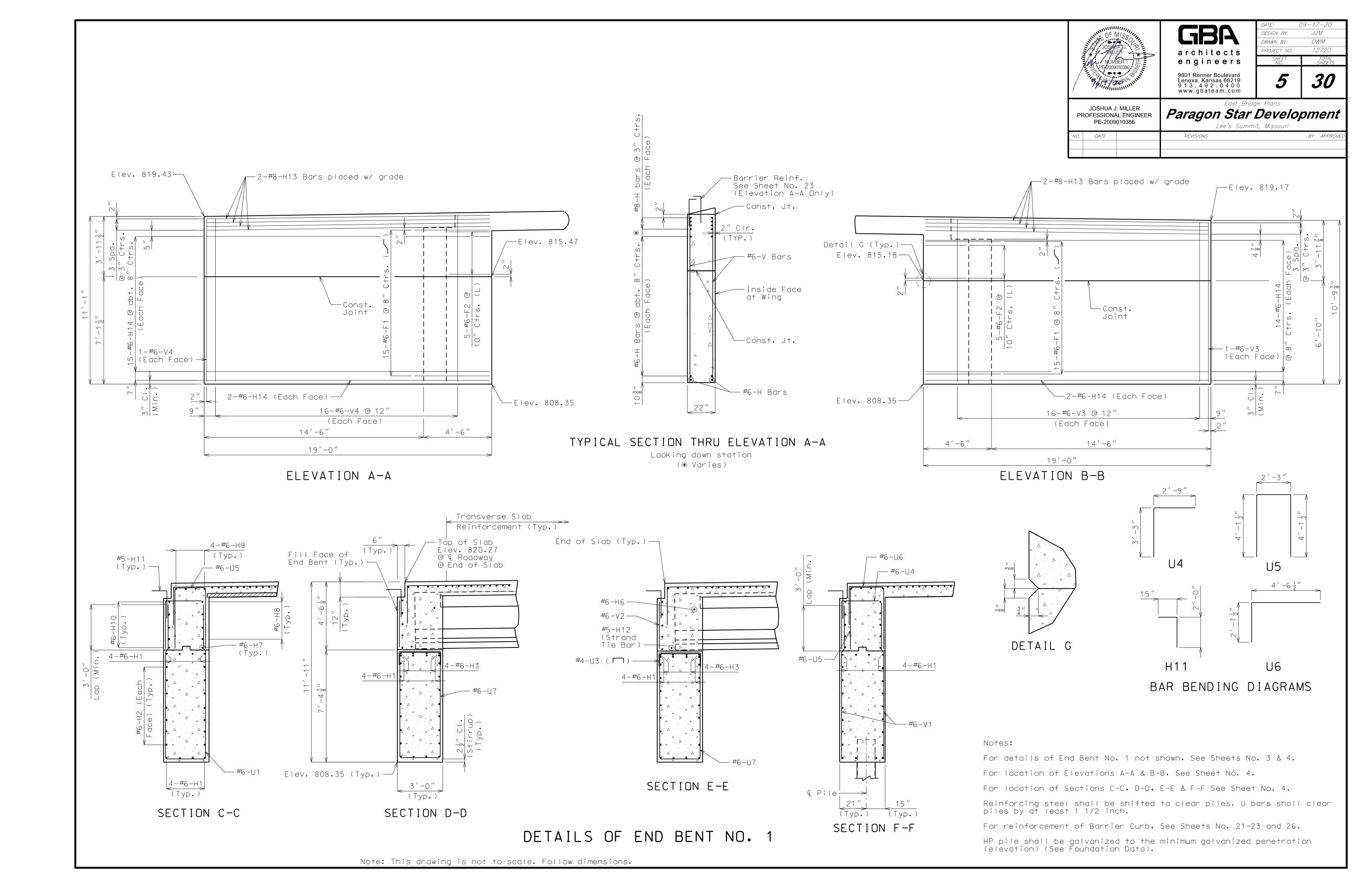
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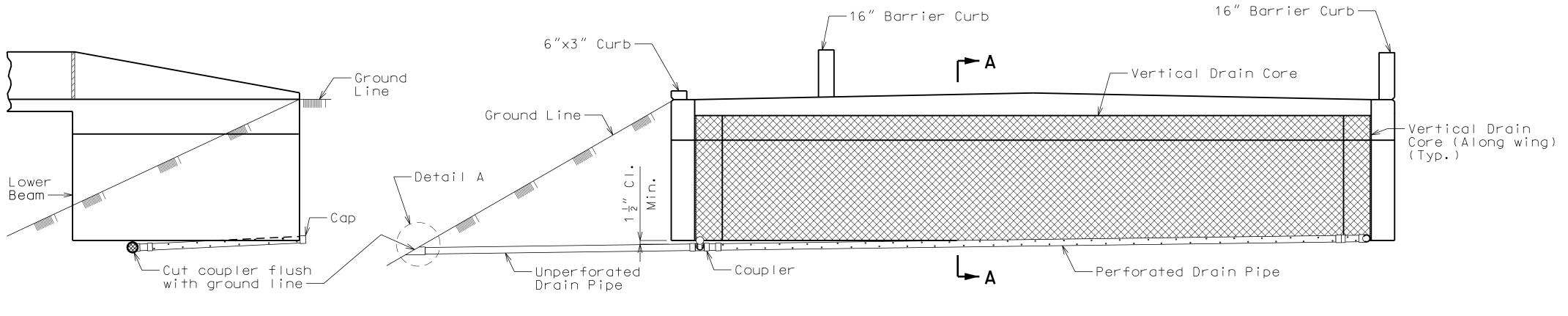




BAR BENDING DIAGRAMS

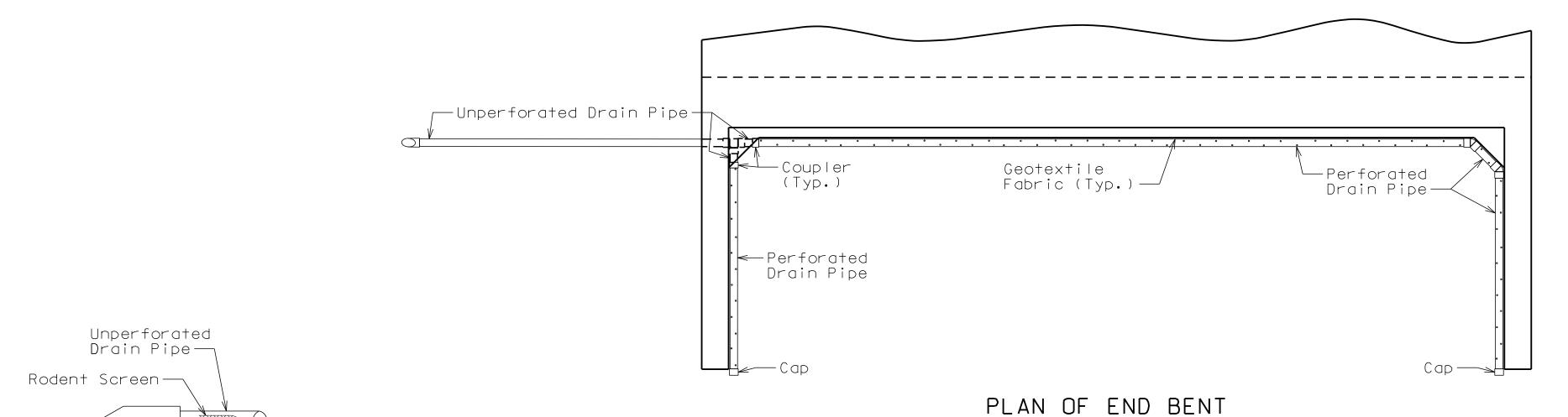
- For details of End Bent No. 1 not shown, see Sheets No. 3 & 5.
- For details of Vertical Drain at End Bents, see Sheet No. 6. Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least $1\frac{1}{2}$ ".
- All concrete in the end bent above top of beam and below top of slab shall be Class $B-2\cdot$
- For reinforcement of Barrier Curb, see Sheets No. 21-23 and 26.
- Reinforcing steel shall be shifted as necessary to miss conduit system.
- For Conduit Details, see Sheet No. 26 and 27.
- For Elevations A-A & B-B, See Sheet No. 5.
- For Sections C-C, D-D, E-E & F-F See Sheet No. 5.





ELEVATION OF SOUTH WING

ELEVATION OF END BENT



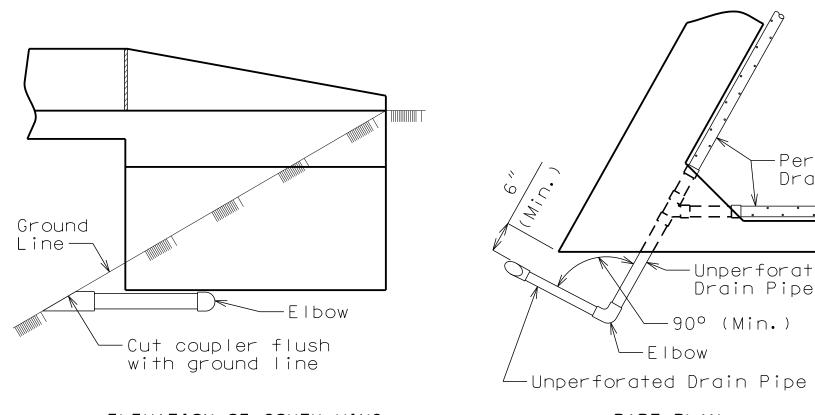
—Perforated

Drain Pipe

— Unperforated Drain Pipe

-90° (Min.)

-Elbow



-Cut coupler to slope of ground line

DETAIL A

PART PLAN ELEVATION OF SOUTH WING OPTIONAL TURNED DRAIN (Only if rock is encountered outside of wing)

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

Note: This drawing is not to scale. Follow dimensions.



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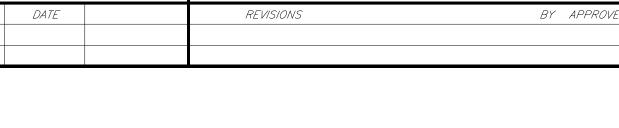
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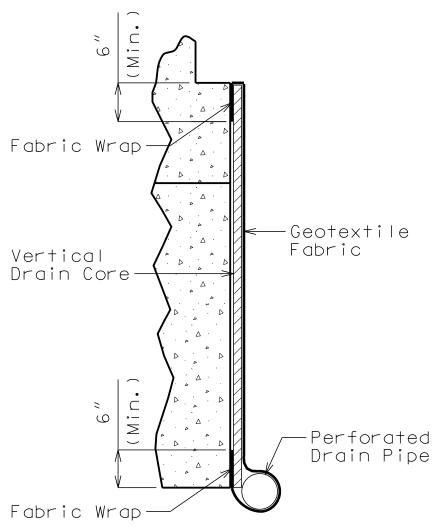
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PART SECTION A-A (Section thru wing similar)

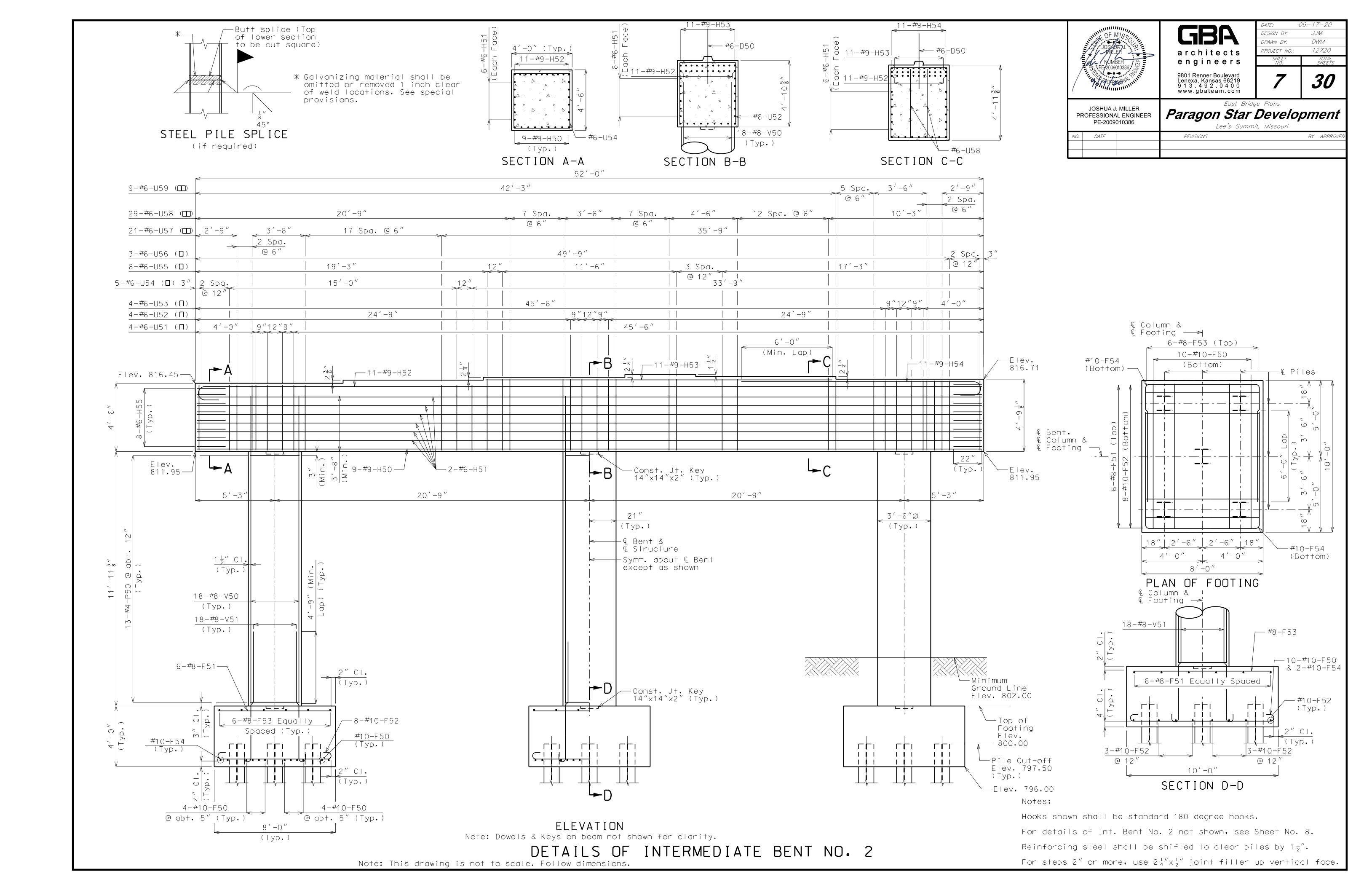
General Notes:

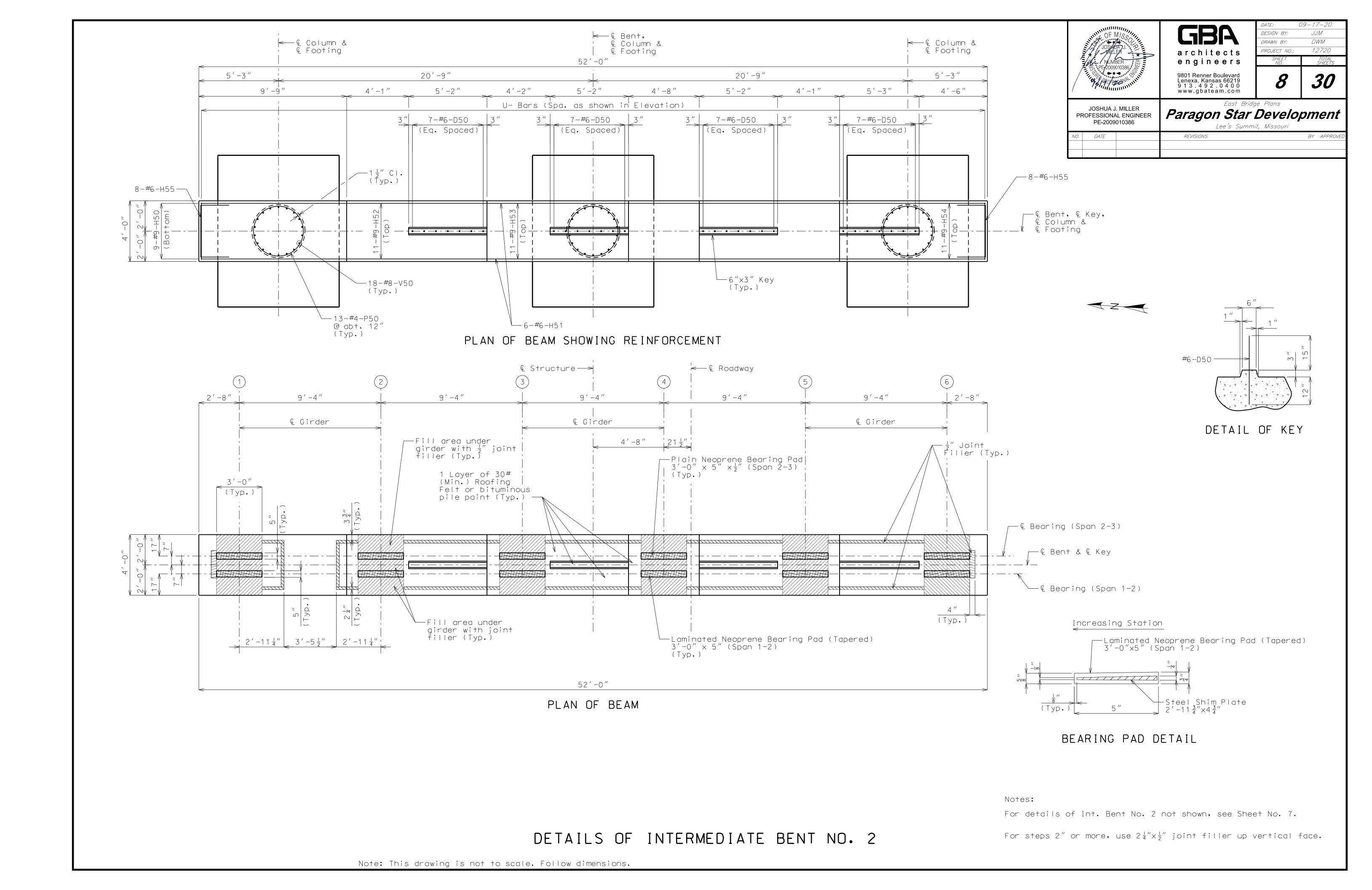
All drain pipe shall be sloped 1 to 2 percent.

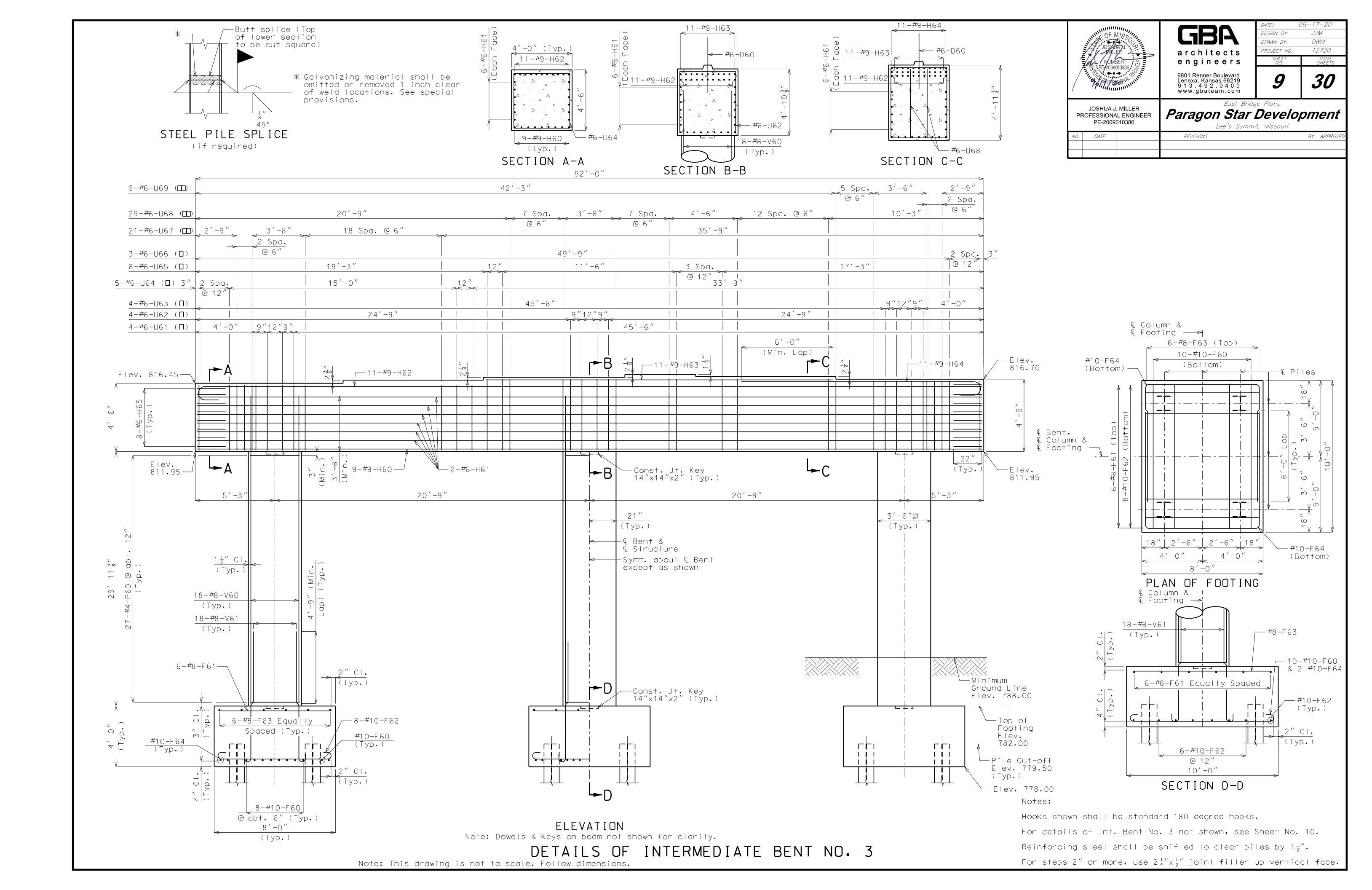
Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underďrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

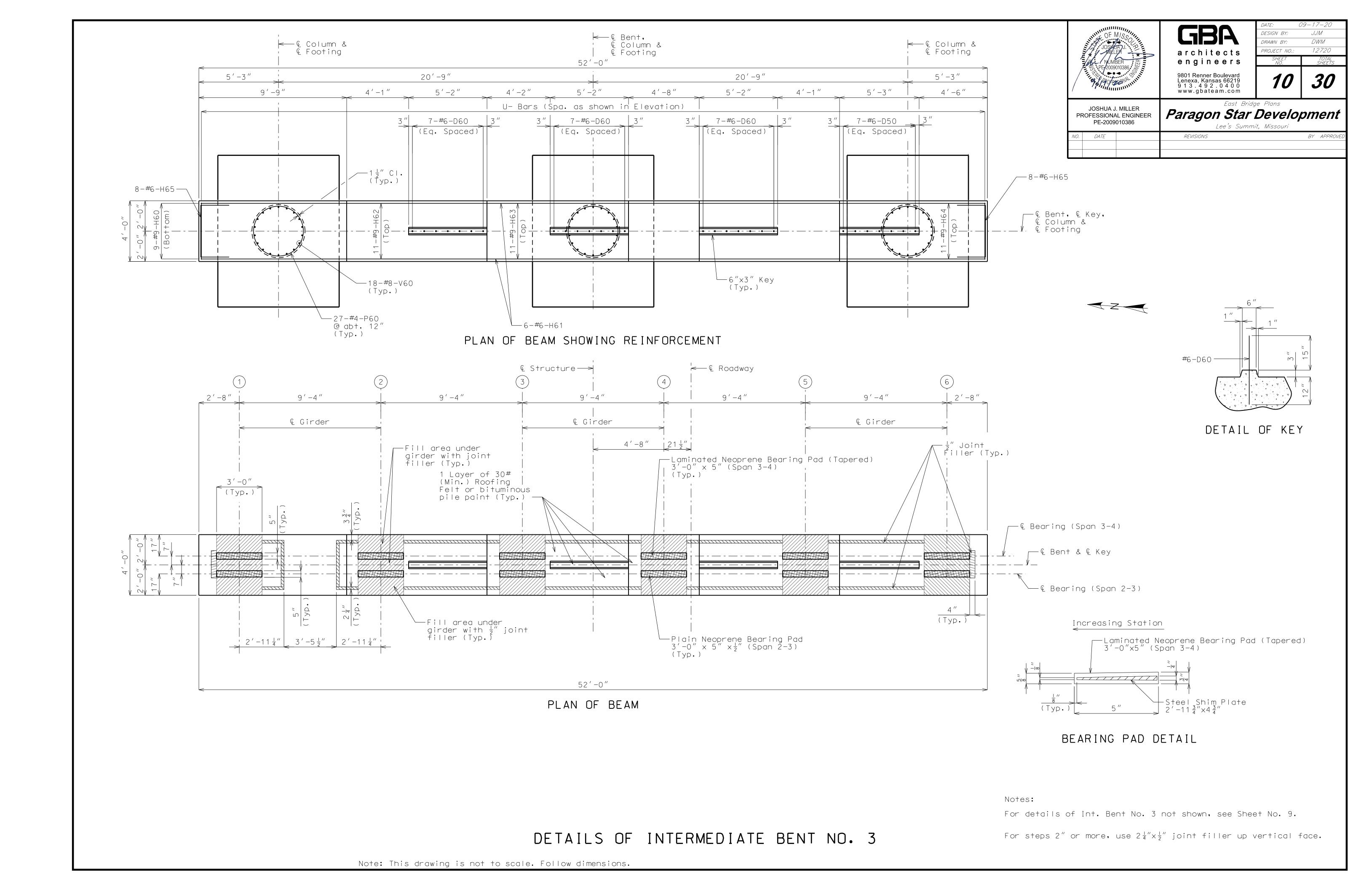
Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

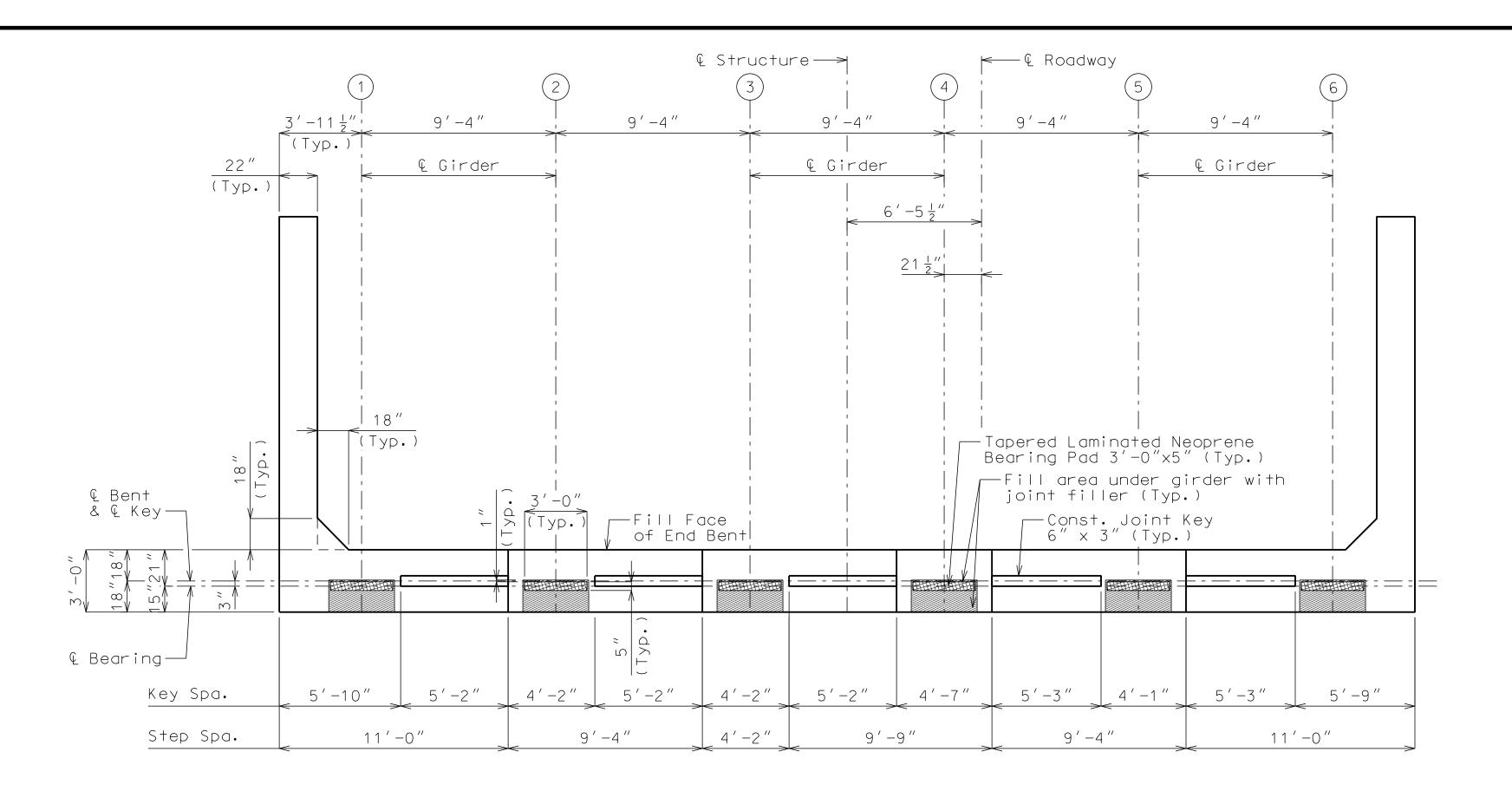
Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



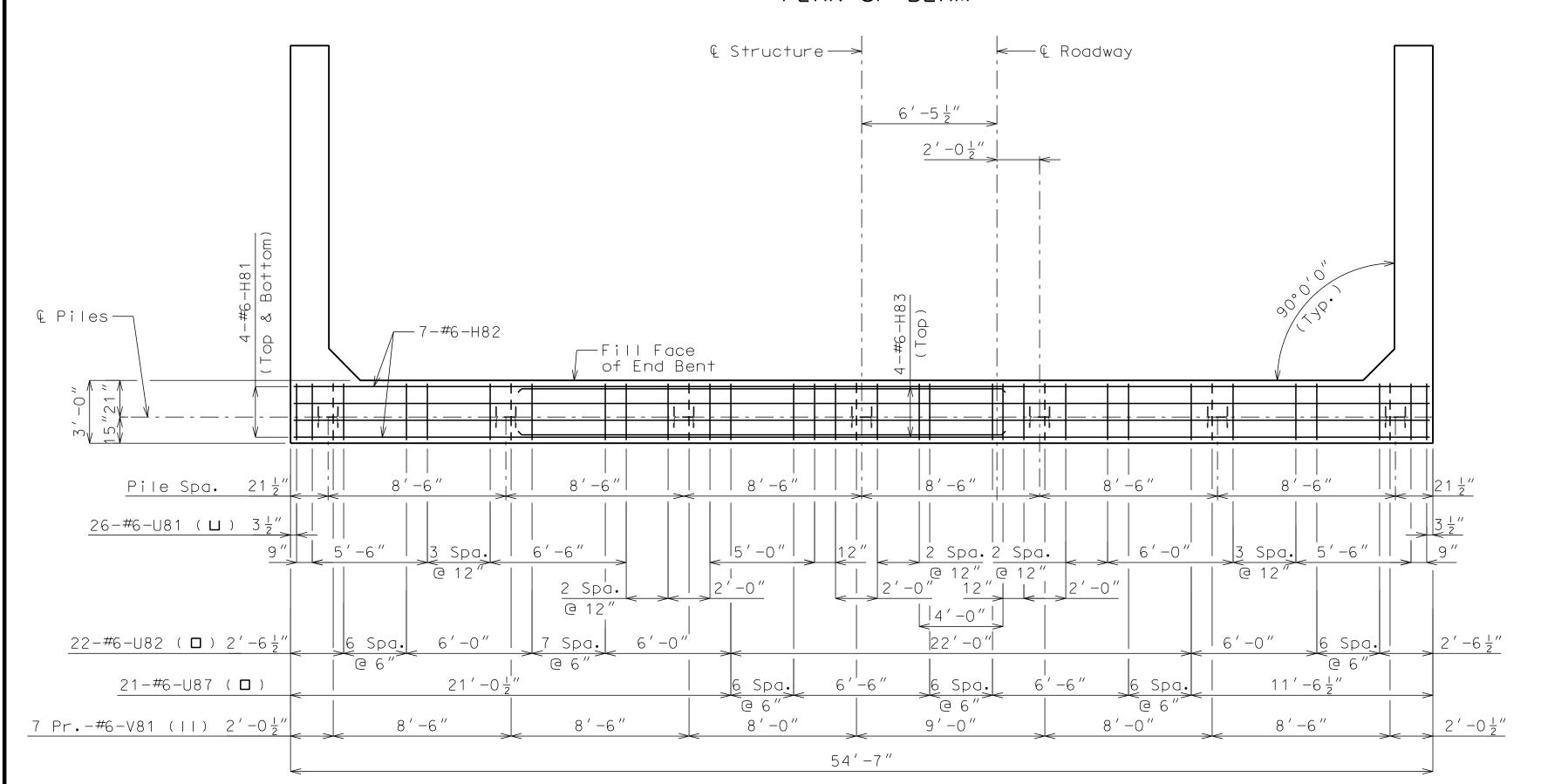








PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT

Note: This drawing is not to scale. Follow dimensions.

(Note: Steps and keys not shown for clarity)

DETAILS OF END BENT NO. 4

DE IMIES SI END BEITH



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DRAWN BY: DWM

PROJECT NO.: 12720

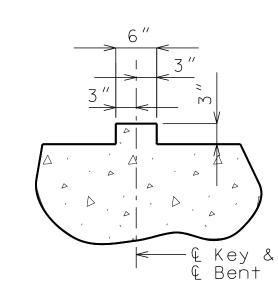
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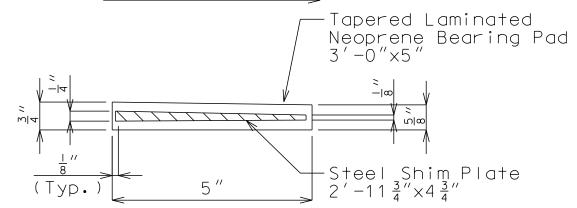
Lee's Summit, Missouri

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SECTION THRU KEY

Increasing Station



BEARING PAD DETAIL

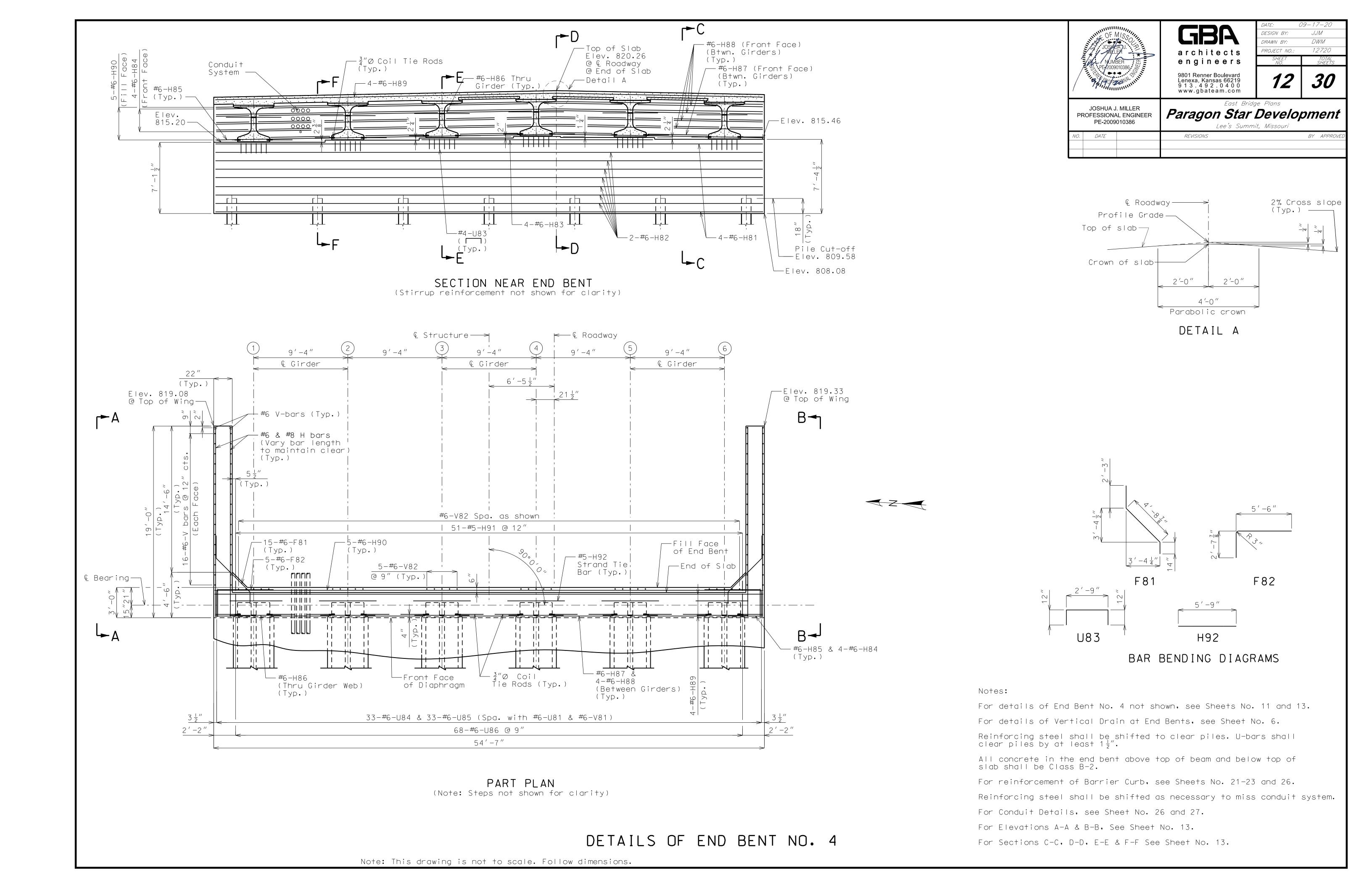
Notes:

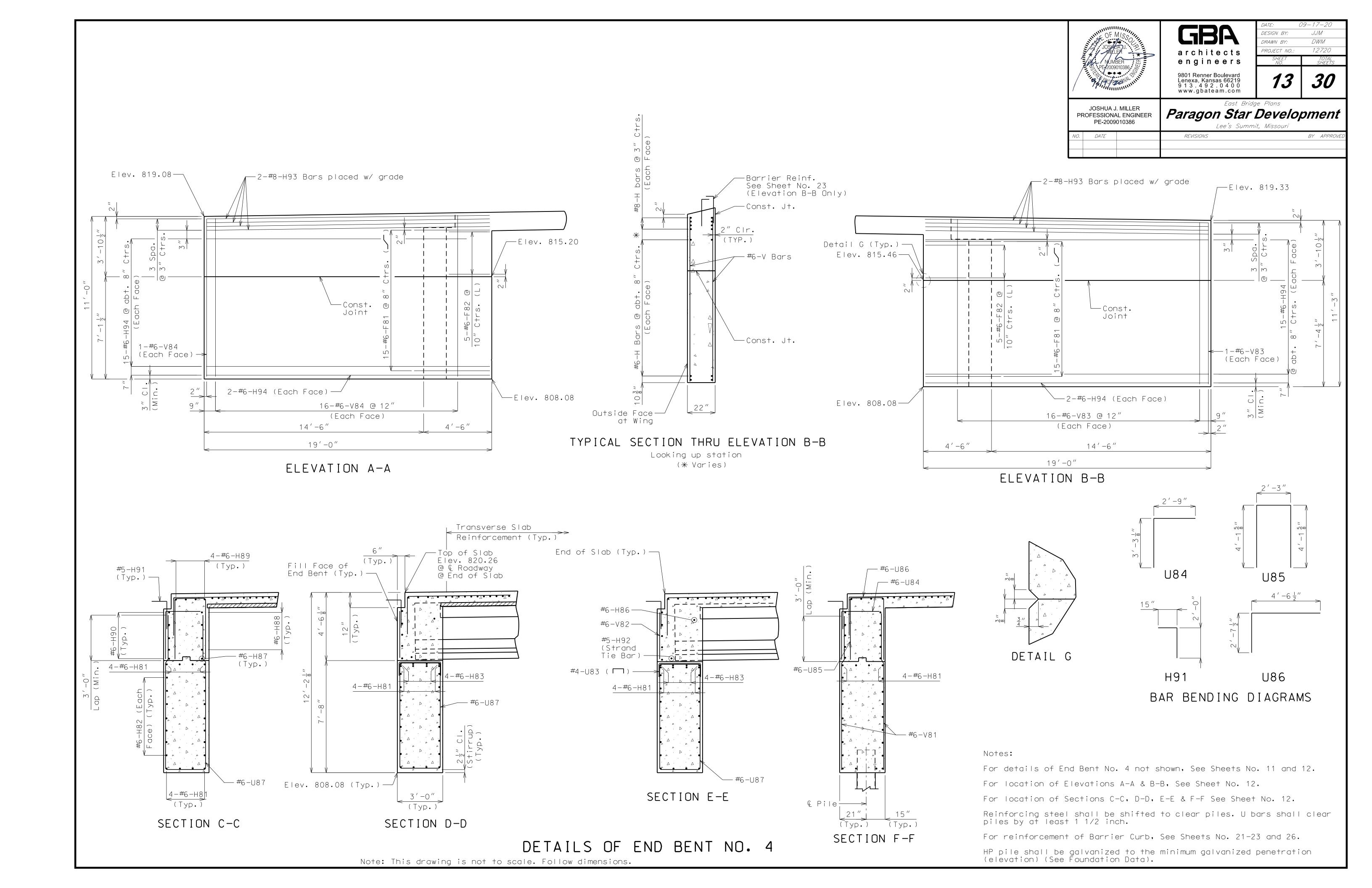
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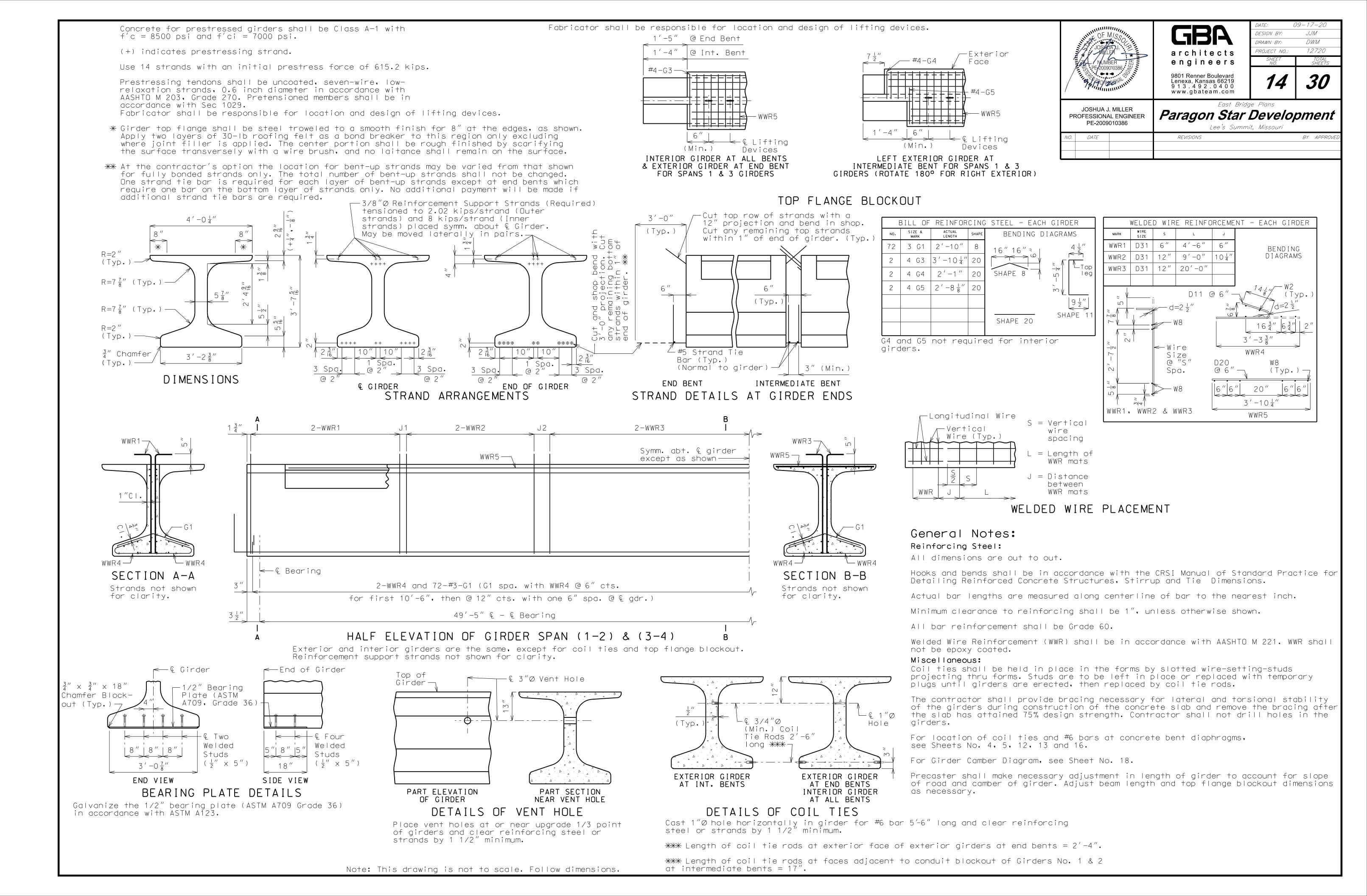
For details of End Bent No. 4 not shown, see Sheets No. 12 and 13. For details of Vertical Drain at End Bents, see Sheet No. 6. Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least $1\frac{1}{2}$ ".

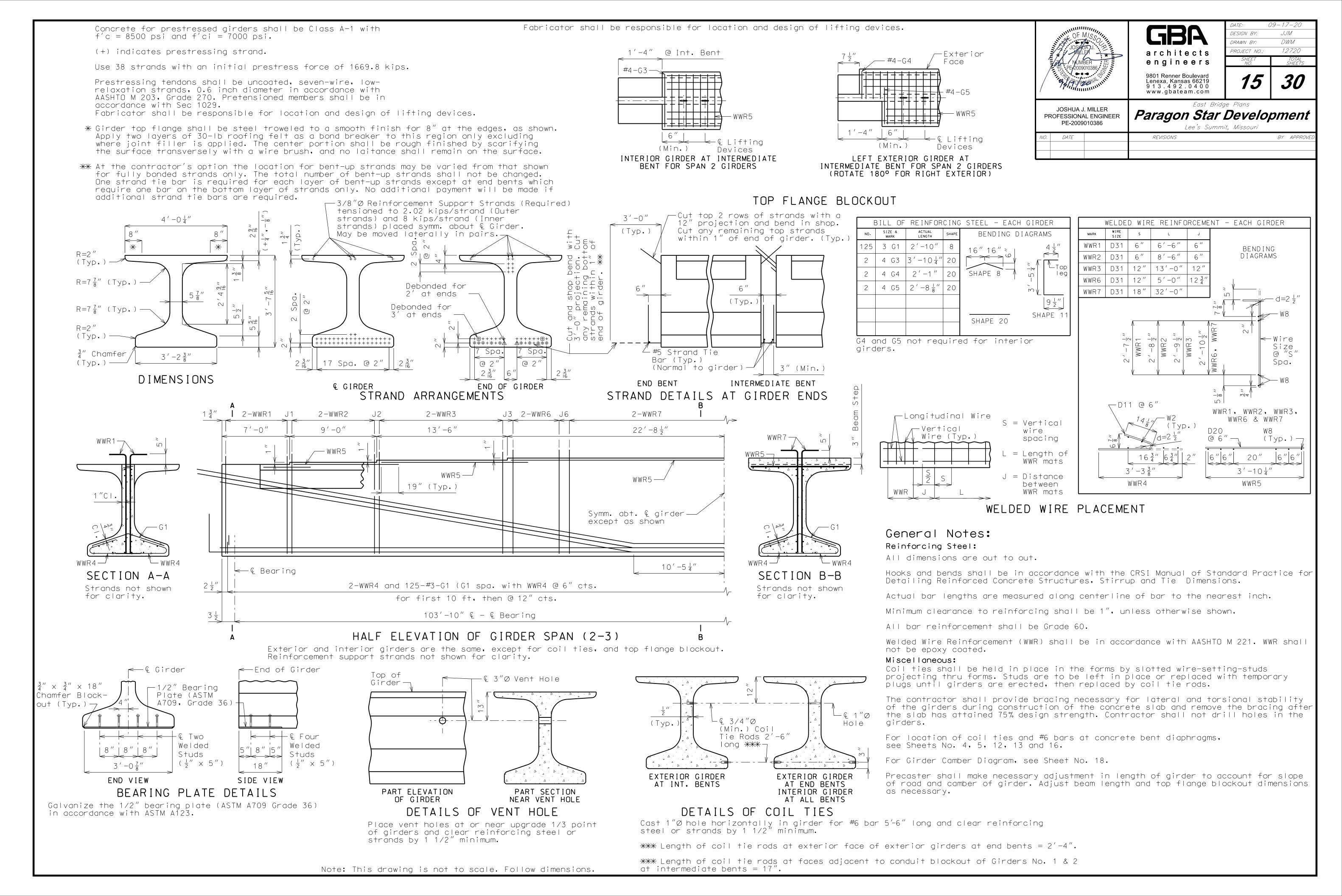
All concrete in the end bent above top of beam and below top of slab shall be Class $B-2 \cdot$

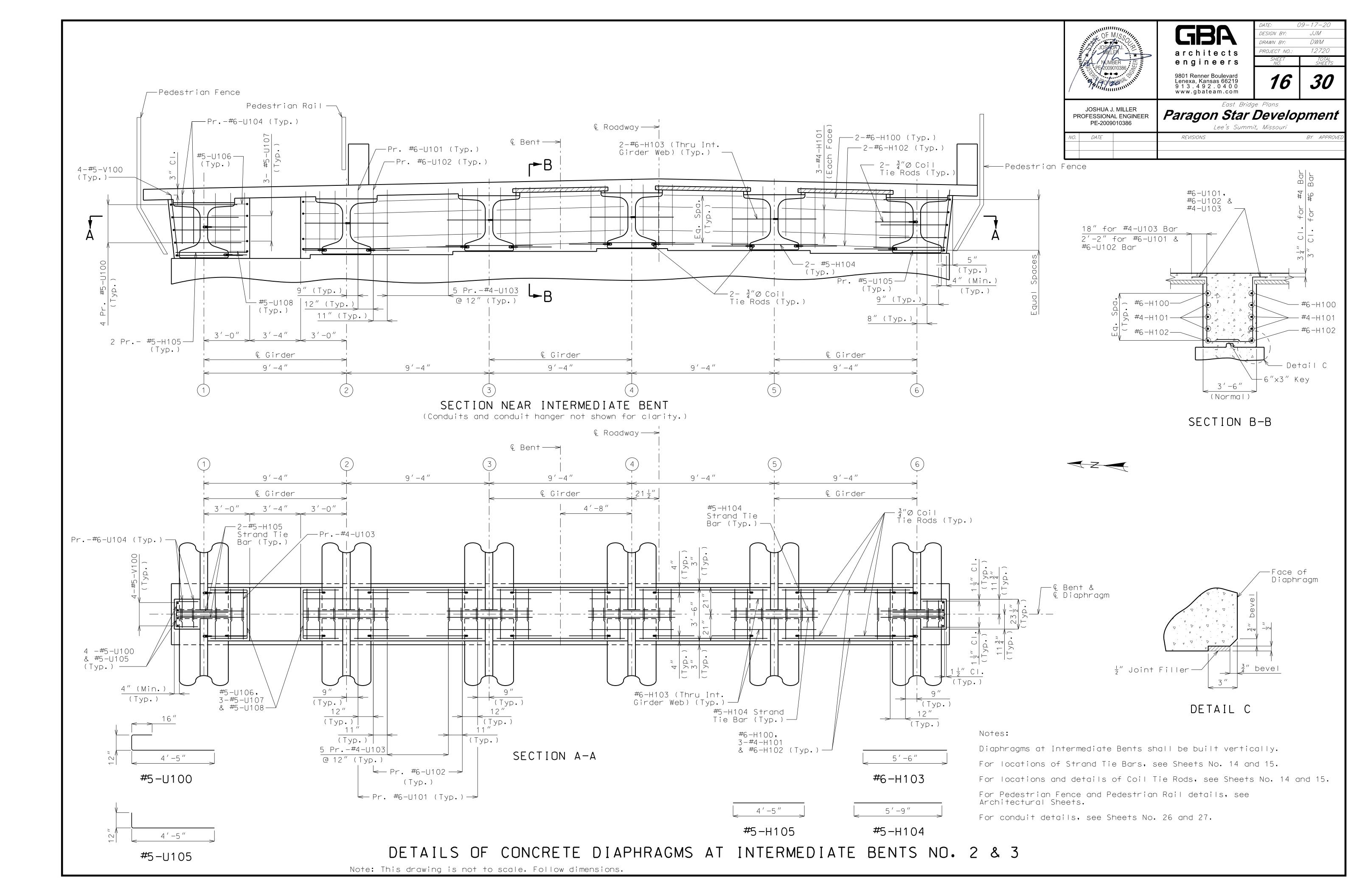
For reinforcement of Barrier Curb, see Sheets No. 21-23 and 26.

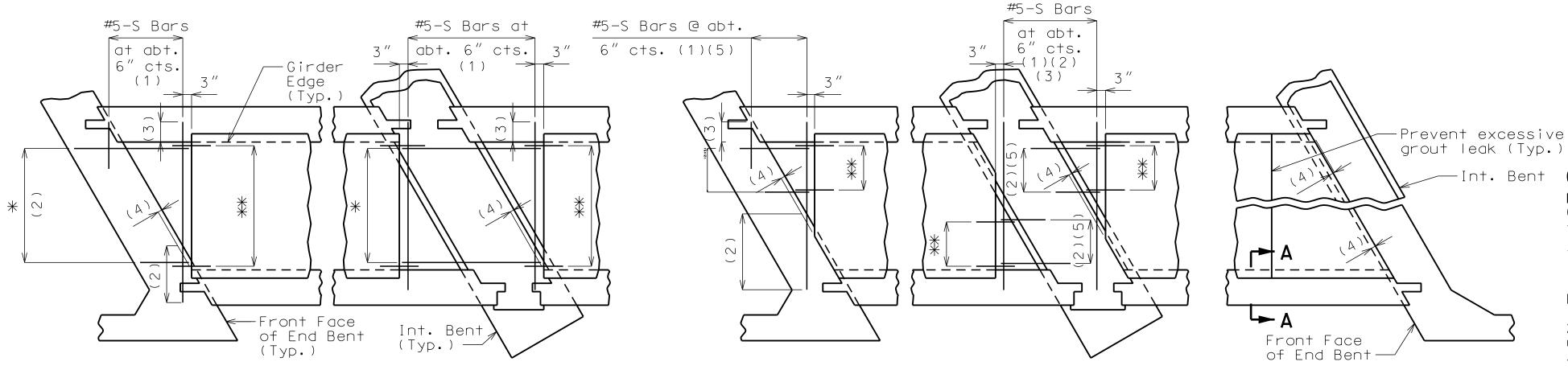












SQUARED END PANELS OR TRUNCATED END PANELS

L/4 : L/4 : L/4 : L/4

© Strand

 $\frac{1}{2}$ " (Min.)

M M X

 ∞ \leftarrow

DW)

 $\frac{1}{2}$ " (Min.)

(Max.)

2/m

BENDING DIAGRAM FOR U1 BAR

U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall

#3-P2 at abt.

6" cts. at top

Panel Width

SECTION B-B

be placed between P1 bars.

5-#3-P3 at 6" cts.

between P2 bars (8)

#3-P1 at 12" cts.

at top (6)

(10) —

#3-P2 at abt.

6" cts. at top

Panel Width

*** 3" (Min.), 6" (Max.)

PLAN OF OPTIONAL TRUNCATED END PANEL

3" (Min.)

(Typ.)

3/8″Ø

Strand—

 $1\frac{1}{2}''$ (Min.

3" (Max.)

May be cast

sawn to skew-

× D X

 $\infty \sqrt{}$

 $1\frac{1}{2}''$ (Min.)

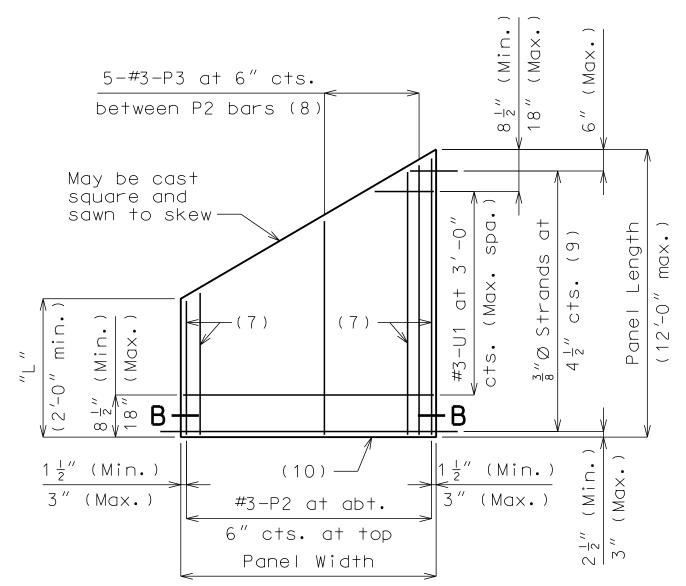
3" (Max.)

B#

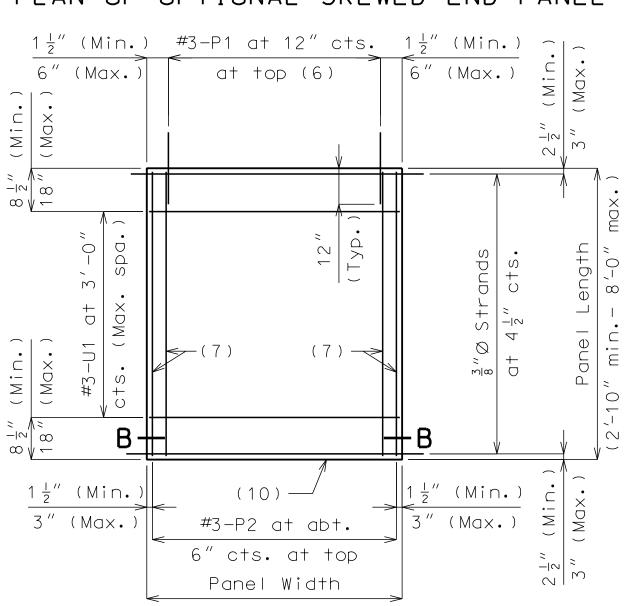
square and

PLAN SHOWING PANELS PLACEMENT

* #5-S Bars at abt. 9" cts. (1)
** #3-P1 at 12" cts. (End panels only)

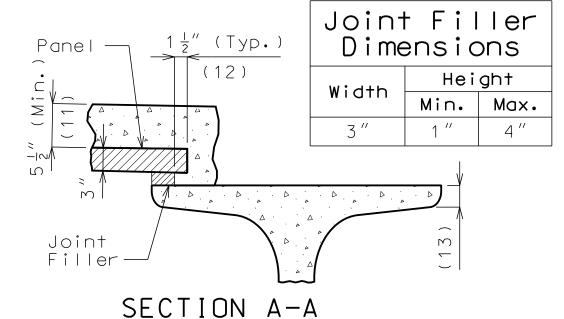


PLAN OF OPTIONAL SKEWED END PANEL



PLAN OF SQUARED PANEL

SKEWED END PANELS



Reference Notes:

Plan of Panels Placement:

(1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.

of end bents and int. bents for squared and truncated end panels only.

(3) Extend S-bars 9 inches beyond edge of girder (Typ.).

(4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.

(5) For truncated end panels, use a min. of #5-S than 2 feet. bars at 6" crossings in openings, or min. $4 \times 4 - W7 \times W7$.

Plans of Panels:

(6) For end panels only, P1 bars shall be 2'-0'' in length and embedded 12". P1 bars will not be

(7) #3-P2 bars near edge of panel at bottom (under strands).

(8) Use #3-P3 bars if panel is skewed 45° or greater.

(9) Any strand 2'-0'' or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then S-bars are not listed in the bill of reinforcing. be debonded at the fabricator's option.

(10) Optional 1/2" x 45° Chamfer one or both sides at bottom.

Section A-A:

(11) Slab thickness over prestressed panels minimum slab thickness, it may be necessary to raise the grade uniformly throughout the

labor or materials required for necessary grade adjustment.

under and between panels.

(13) At the contractor's option, the variation in top of flange. slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the girder top flange thickness. Dimensions shall be shown on the shop drawings.

The method and sequence of releasing the strands shall be shown on the shop drawings. Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing

Support from diaphragm forms is required under the optional skewed end until

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to

The prestressed panel quantities are not included in the table of estimated quantities for the slab. Reinforcing Steel:

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

(2) Extend S-bars 18 inches beyond the front face Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as

perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficien to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less

following maximum spacing in each direction: #3-P2 bars at 16 inches.

WWR at 24 inches.

required for panels at squared integral end bents. The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler: Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

varies due to girder camber. In order to maintain Use Slab Haunching Diagram on Sheet No. 18 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

structure. No payment will be made for additional Thicker material may be used on one or both sides of the girder to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any (12) Contractor shall ensure proper consolidation one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/4 inch. The polystyrene bedding material may be cut with a transition to match haunch height above

> Joint filler shall be glued to the girder. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.

DETAILS OF PRESTRESSED PANELS

Note: This drawing is not to scale. Follow dimensions.



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DWM DRAWN BY: 12720 PROJECT NO.: SHEETS 30

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DESIGN BY

East Bridge Plans JOSHUA J. MILLER

Paragon Star Development PROFESSIONAL ENGINEER PE-2009010386 REVISIONS BY APPROVI DATE

-Int. Bent General Notes:

f'ci = 4.000 psi.

Prestressed Panels:

Concrete for prestressed panels shall be Class A-1 with f'c = 6,000 psi,

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq.in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

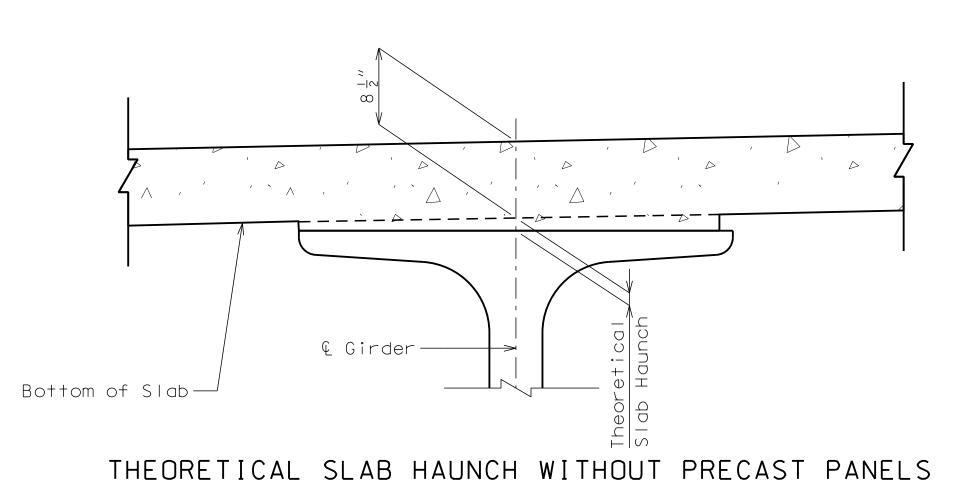
shall be determined by the contractor and shown on the shop drawings.

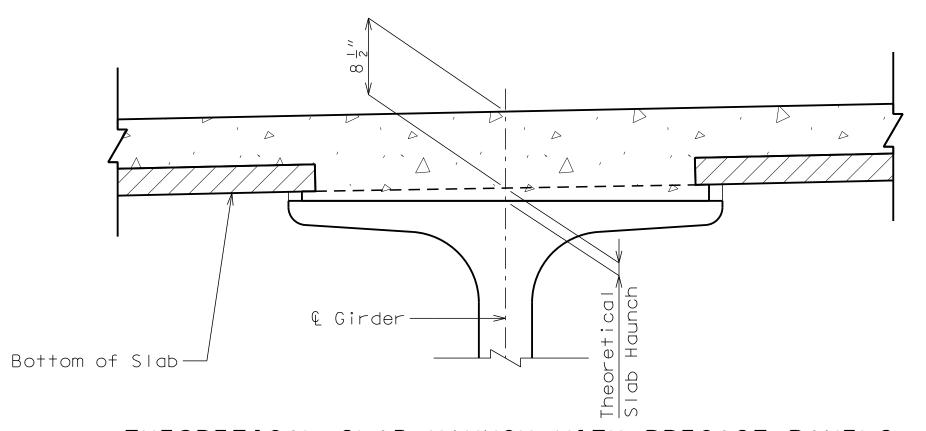
required.

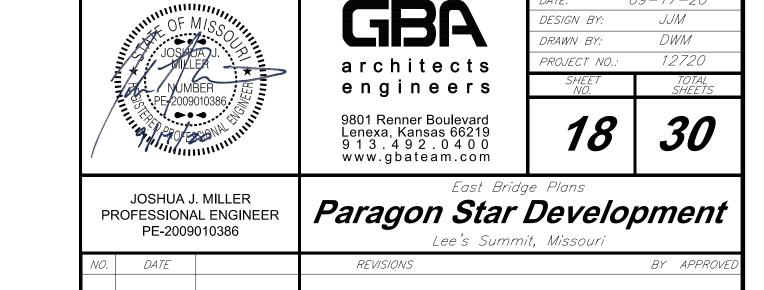
cast-in-place concrete has reached 3,000 psi compressive strength.

necessary, to clear slab steel. Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing

The following reinforcing steel shall be tied securely to the strands with the

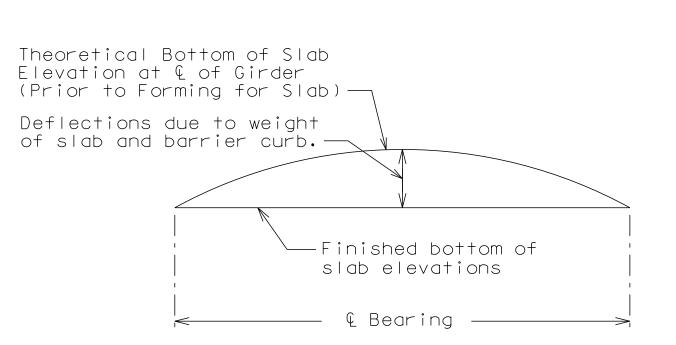






49′-5″

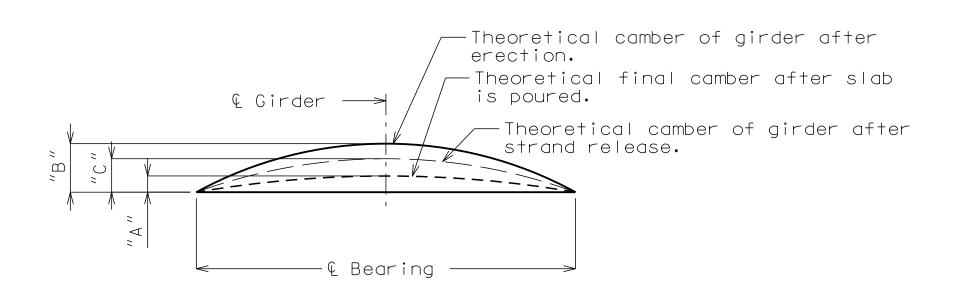
SPAN (3-4)



THEORETICAL SLAB HAUNCH WITH PRECAST PANELS

49′-5″

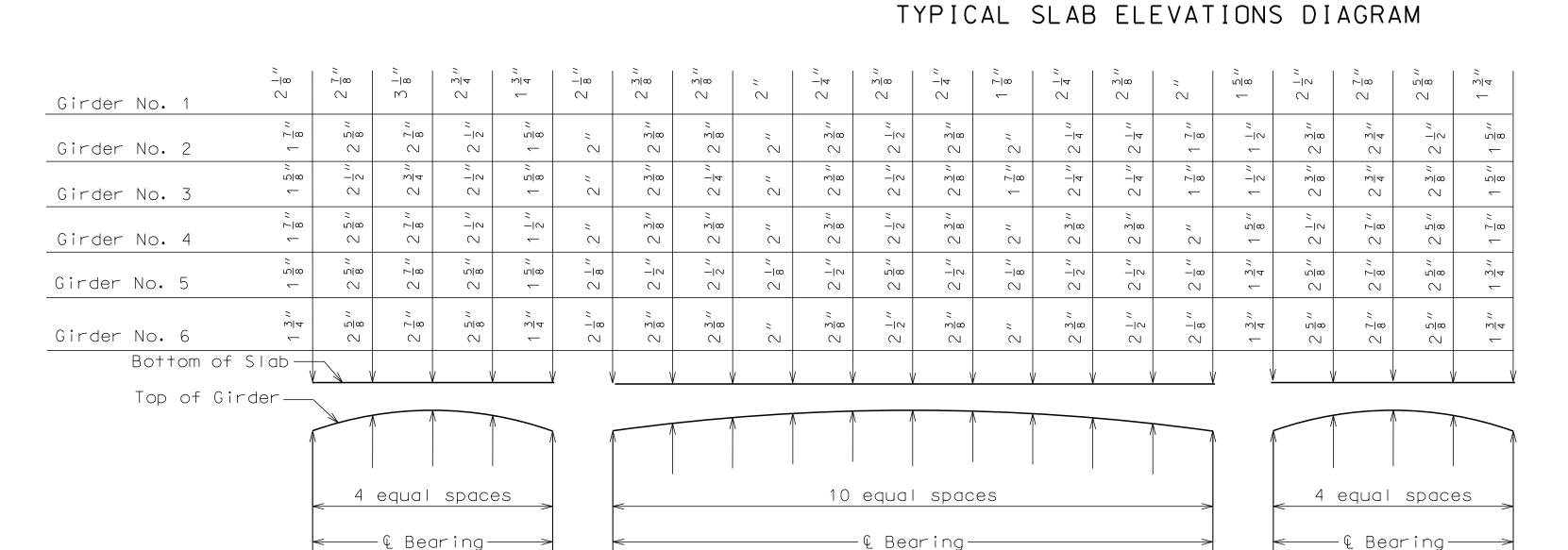
SPAN (1-2)



	S	Span (1-2	2)	S	pan (2-3	3)	Span (3-4)			
	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"	
Ext. Girder	0 "	<u>l</u> //	<u>1</u> //	1 7/8	۲ ″	2 3 "	0 "	<u> </u> //	<u>1</u> //	
Int. Girder	0 "	8	8	1 3 "		<u> </u>	0 "	8	8	

GIRDER CAMBER DIAGRAM

Conversion factors for girder camber. $0.1 \text{ pt.} = 0.314 \times 0.5 \text{ pt.}$ $0.2 \text{ pt.} = 0.593 \times 0.5 \text{ pt.}$ $0.25 \text{ pt.} = 0.7125 \times 0.5 \text{ pt.}$ $0.3 \text{ pt.} = 0.813 \times 0.5 \text{ pt.}$ $0.4 pt. = 0.952 \times 0.5 pt.$



THEORETICAL SLAB HAUNCHING DIAGRAM

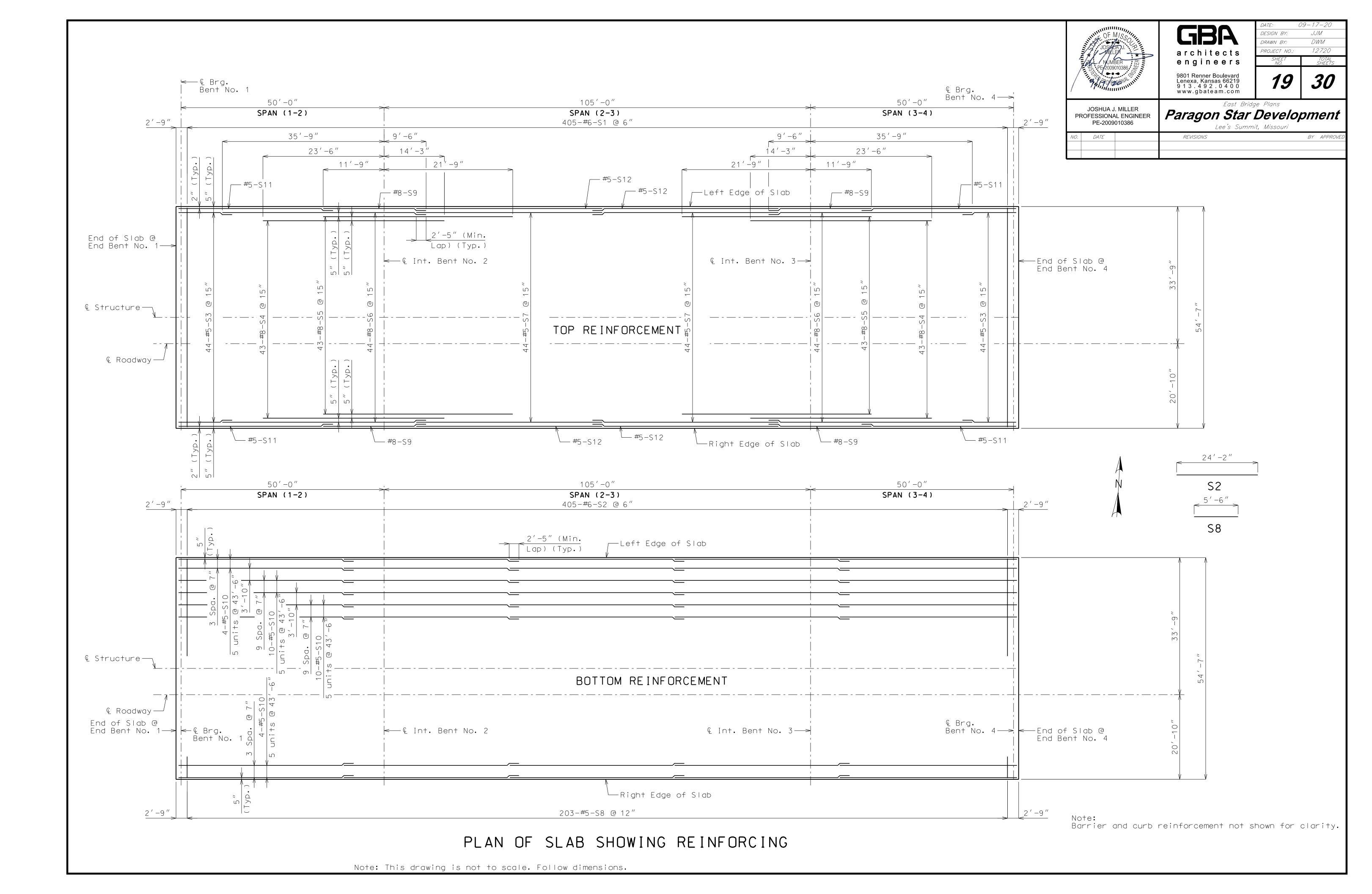
103′-10″

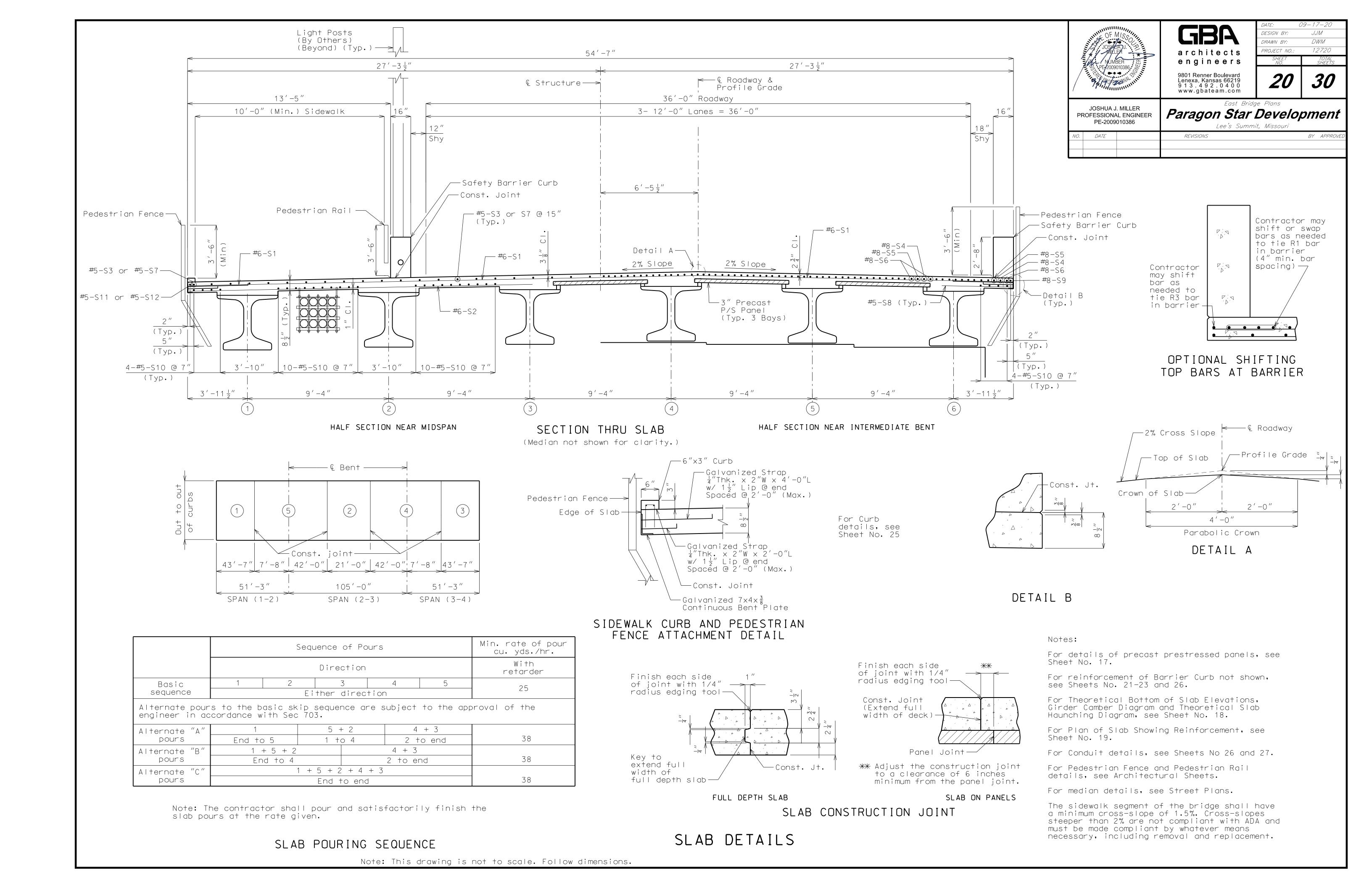
SPAN (2-3)

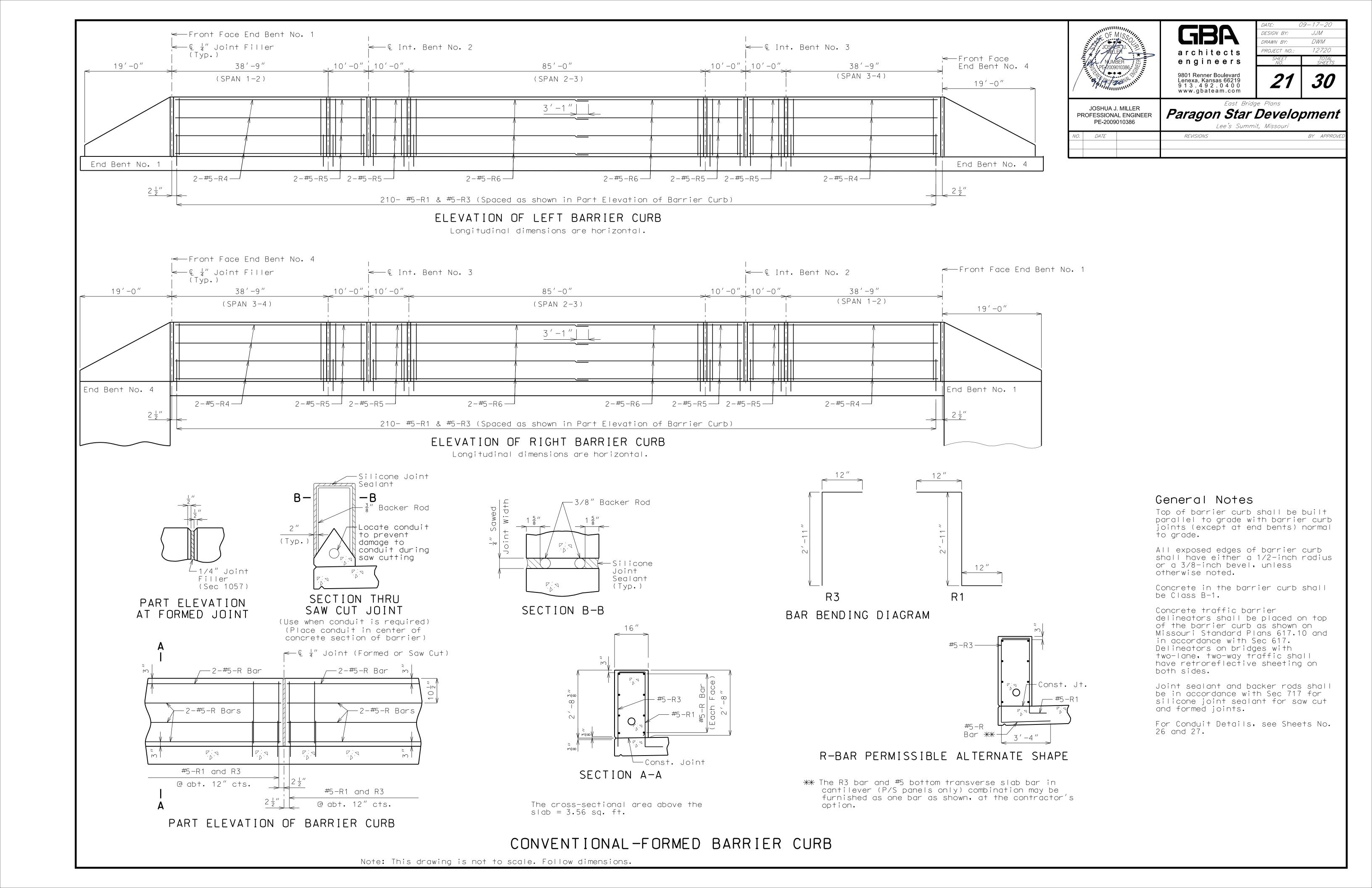
If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

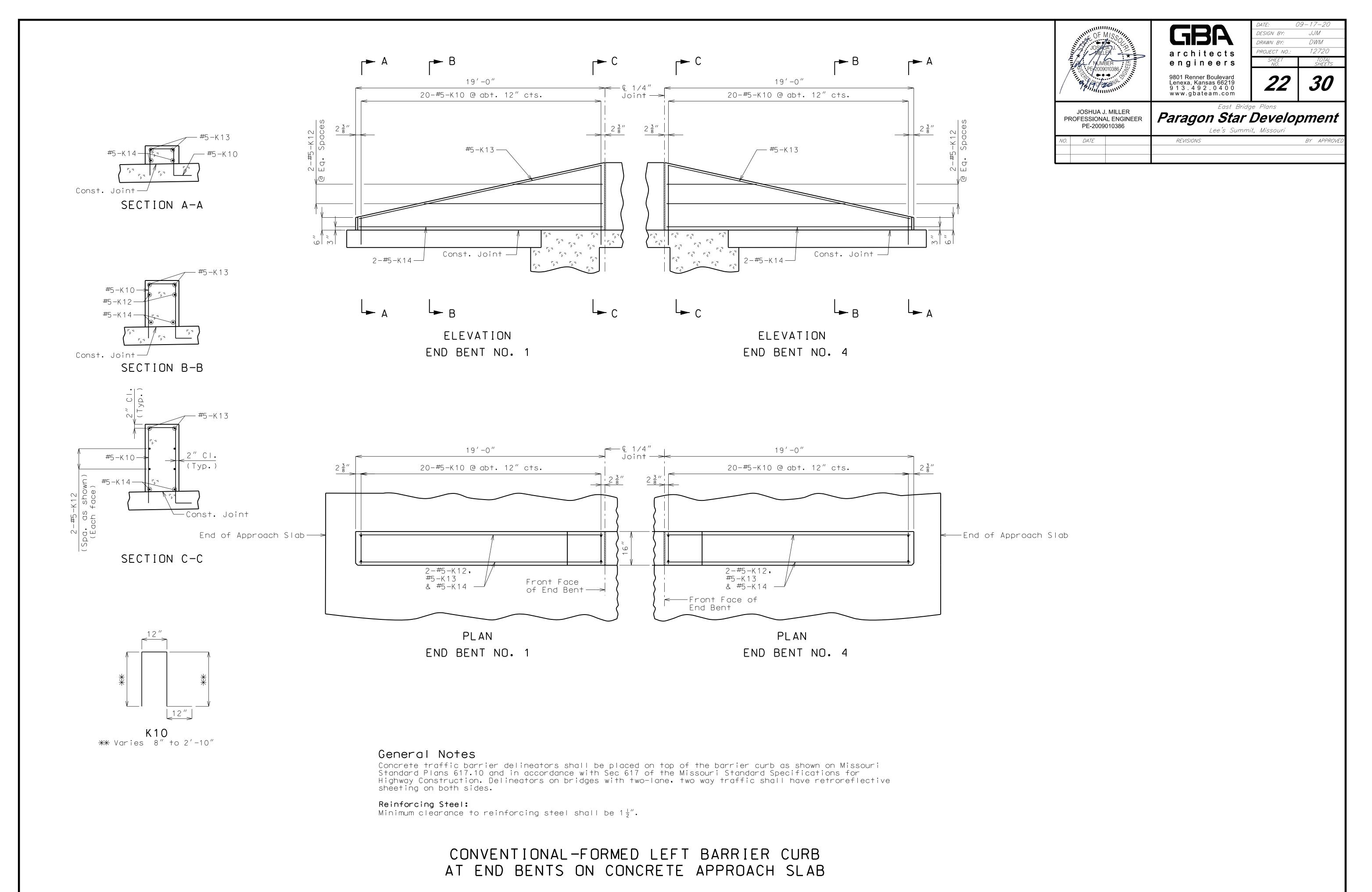
	Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab)																				
	Span ((1-2) (4)	9'-5" & t	org – Ę	brg.)				Span (2-3) (10)3′-10″ (brg – (brg.)				Span	(3-4) (4	9′-5″ Q	brg – Ę	brg.)
	€ brg.	. 25	.50	. 75	& brg.	€ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	€ brg.	€ brg.	.25	.50	.75	€ brg.
Girder No. 1	819.02	819.41	819.75	820.03	820.26	820.28	820.51	820.71	820.85	820.94	820.96	820.93	820.85	820.70	820.51	820.27	820.25	820.02	819.74	819.40	819.01
Girder No. 2	819.21	819.60	819.94	820.22	820.45	820.47	820.71	820.90	821.05	821.14	821.17	821.14	821.05	820.90	820.70	820.46	820.44	820.21	819.93	819.59	819.20
Girder No. 3	819.39	819.79	820.13	820.41	820.63	820.65	820.89	821.09	821.24	821.32	821.35	821.32	821.23	821.09	820.89	820.65	820.63	820.40	820.12	819.78	819.38
Girder No. 4	819.58	819.97	820.31	820.59	820.82	820.84	821.08	821.28	821.42	821.51	821.54	821.51	821.42	821.27	821.07	820.83	820.81	820.59	820.30	819.96	819.57
Girder No. 5	819.47	819.86	820.20	820.48	820.70	820.72	820.97	821.16	821.31	821.40	821.43	821.40	821.30	821.16	820.96	820.72	820.70	820.47	820.19	819.85	819.46
Girder No. 6	819.28	819.67	820.01	820.29	820.52	820.54	820.77	820.97	821.11	821.19	821.22	821.19	821.10	820.96	820.77	820.53	820.51	820.28	820.00	819.66	819.27

Elevations are based on a constant slab thickness of $8\frac{1}{2}$ " and include allowance for theoretical dead load deflections due to weight of slab including precast panel.

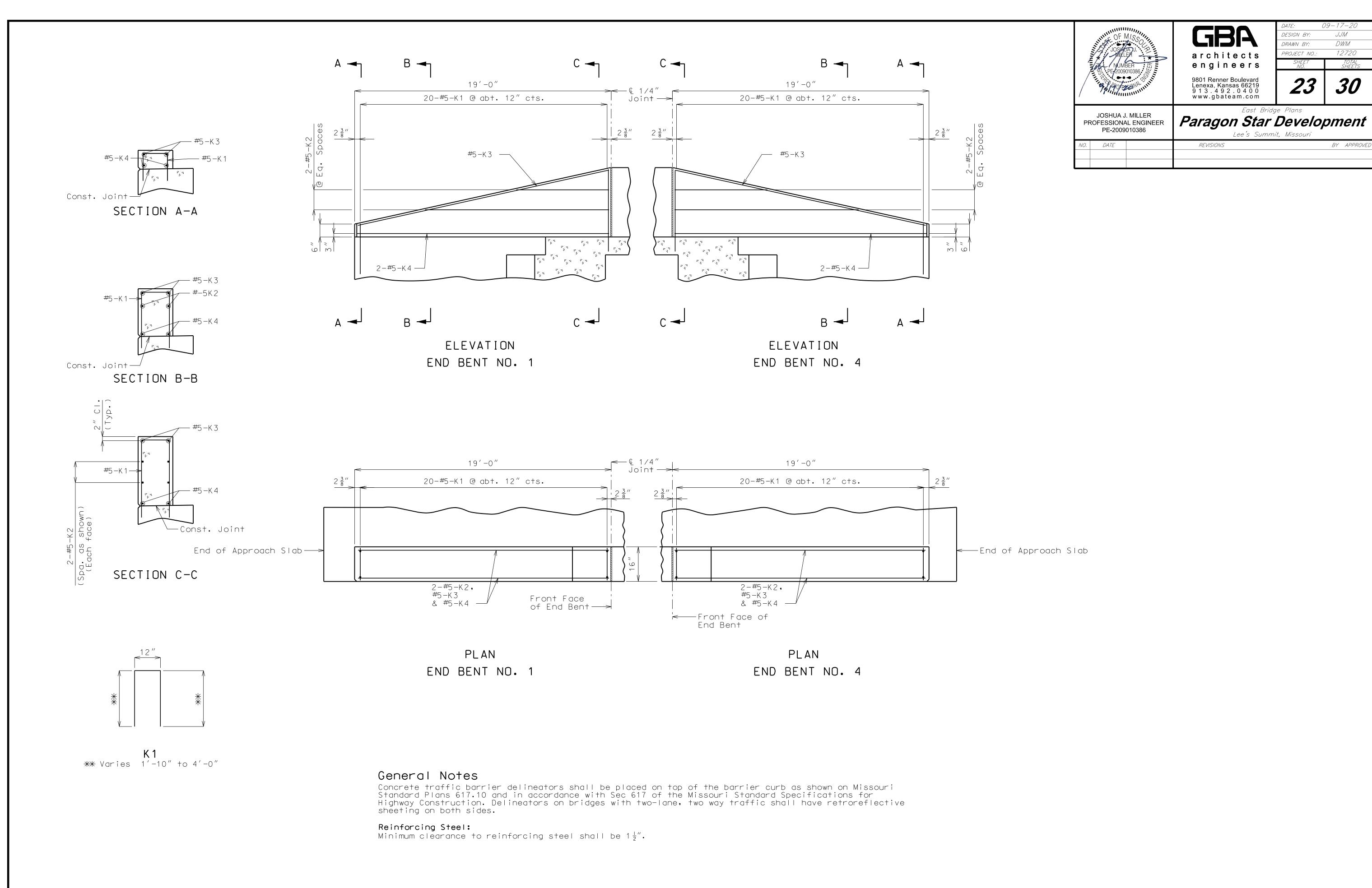








Note: This drawing is not to scale. Follow dimensions.



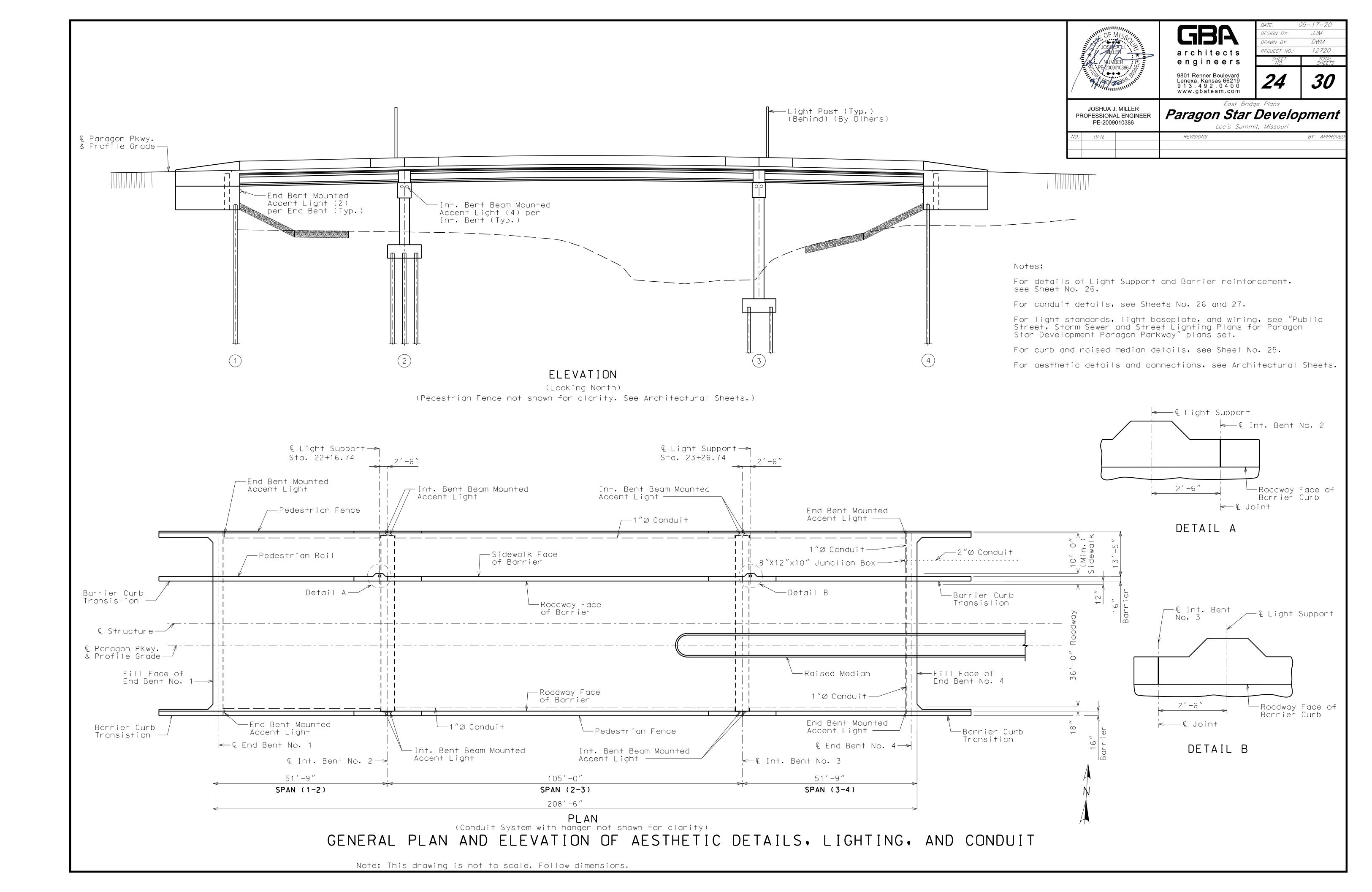
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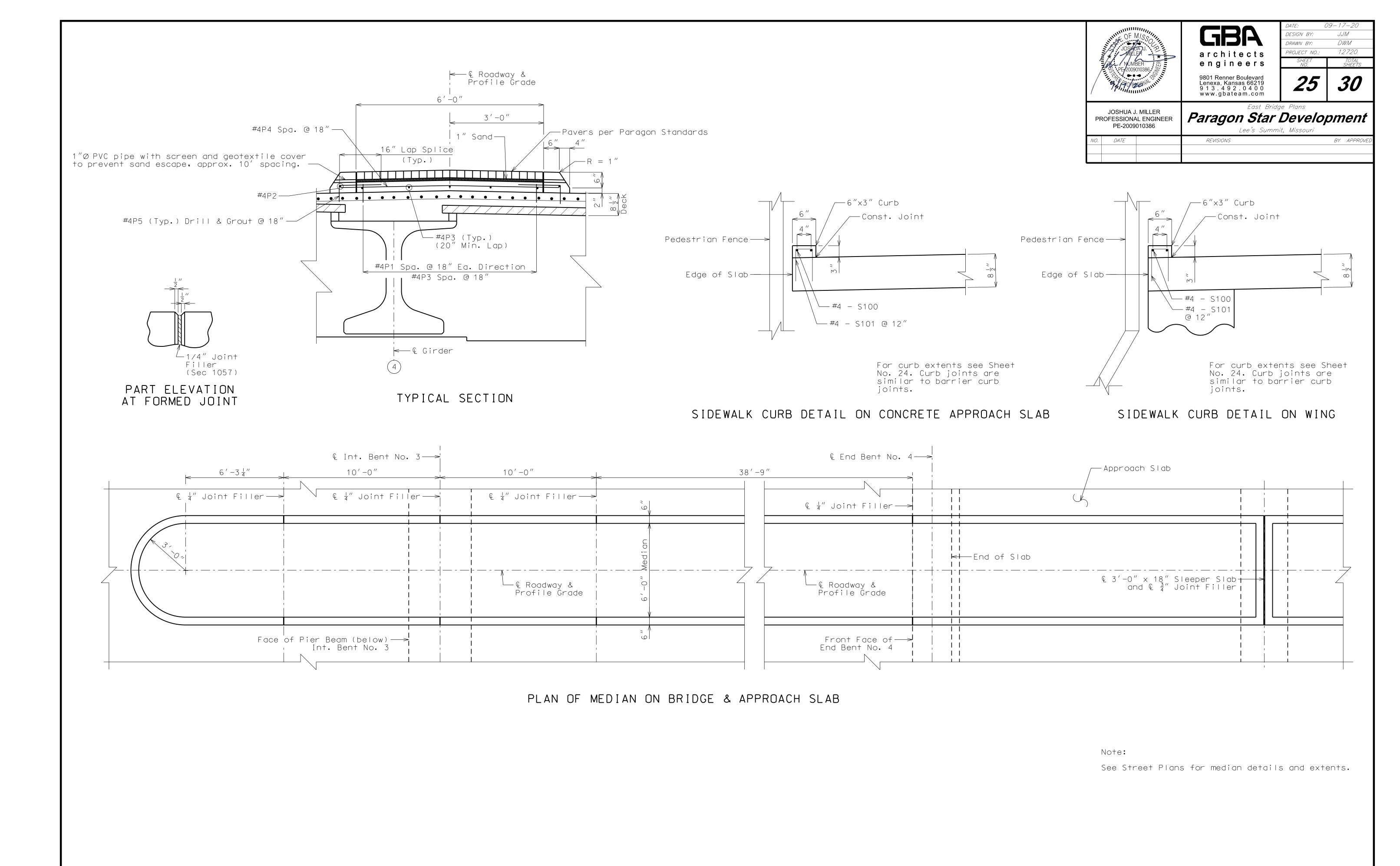
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BY APPROVE

CONVENTIONAL-FORMED RIGHT BARRIER CURB AT END BENTS ON WING

Note: This drawing is not to scale. Follow dimensions.





MEDIAN AND CURB DETAILS

Note: This drawing is not to scale. Follow dimensions.

Notes:

Cost of furnishing and placing anchor bolts for light standard will be considered completely covered by the contract lump sum price for the bridge.

- All conduits shall be rigid nonmetallic schedule 40 heavy wall polyvinyl chloride (PVC) with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.
- All conduit clamps for conduits not encased in concrete shall be commercially-available, nonmetallic conduit clamps and approved by the engineer.

Anchor bolts and nuts shall be ASTM F1554 Grade 55. Anchor bolts, nuts and washers shall be fully galvanized.

- Shift reinforcing steel in field where necessary to clear conduit and junction boxes.
- Light standards, wiring and fixtures shall be furnished and installed by others.
- For details of light standards, light baseplate, and wiring, see Lighting Plans sheet.

Contractor shall verify the bolt size and pattern in accordance with the light pole manufacturer's specifications prior to placing the anchor bolts.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement of 1 inch using a maximum temperature range of 120°F and a maximum temperature of 110°F. Additional expansion fittings beyond what is specified on the bridge plans shall be provided and placed in accordance with the conduit manufacturer's recommendations.

Use "surface" mounting, except adjacent to sidewalks.

- All end bent, intermediate bent, and barrier junction boxes shall be PVC molded in accordance with Sec 1062. The conduit terminations shall be permanentor separable. The terminations and covers shall be of watertight construction and shall meet requirements for NEMA 4 enclosure.
- Placement of junction boxes and covers, complete in place, shall be flush with the pedestrian face of barrier. Junction boxes and covers may be recessed up to $\frac{1}{4}$ ".

Weep holes shall be provided at low points or other critical locations to drain any moisture in the conduit system. Conduit shall be sloped to drain.

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

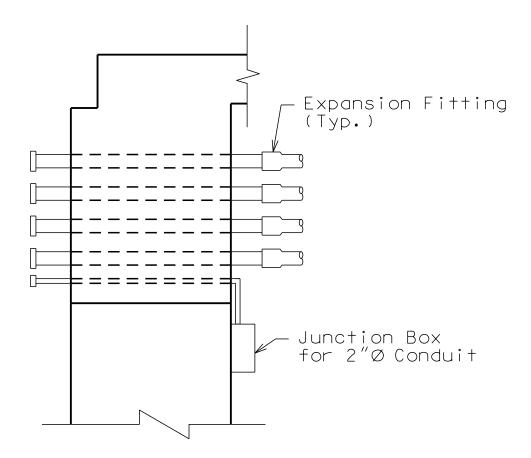
All 1" and 2" diameter conduits shall be secured to concrete with nonmetallic clamps at about 5'-0" cts. Concrete anchors for clamps shall be in accordance with Federal Specification FF-S-325, Group II, Type 4, Class I and shall be galvanized in accordance with ASTM A153, B695-91 Class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

Junction box size shown on plan may require special order. No other size may be substituted.

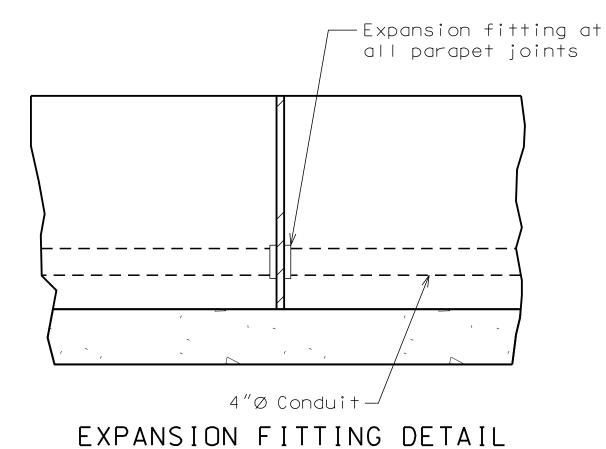
City Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

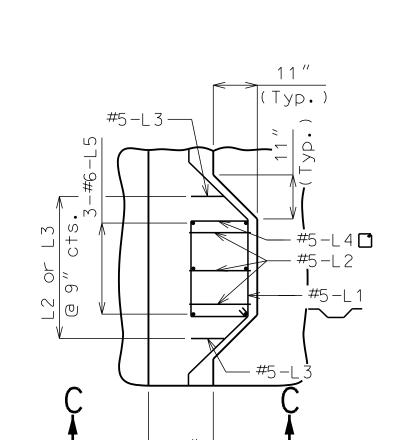
Payment for furnishing and installing light supports, concrete and reinforcing steel, and Conduit System, complete in place, will be considered completely covered by the contract lump sum price for the bridge.

Cast-in-place anchors for the 12-duct conduit system shall be designed per the conduit hanger's engineer and the design shall be signed and sealed by a registerd Professional Engineer in the State of Missouri. The design and details shall be submitted to the owner for review a minimum for four weeks prior to the start of fabrication.



TYPICAL SECTION AT END BENT SHOWING CONDUIT SYSTEM





`**√. →•** → .

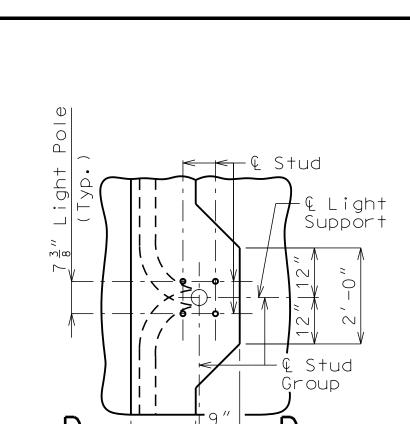
JOSHUA J. MILLER

PROFESSIONAL ENGINEER PE-2009010386

DATE



SECTION C-C



Paragon Star Development

GBA

architects

engineers

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DRAWN BY:

PROJECT NO.:

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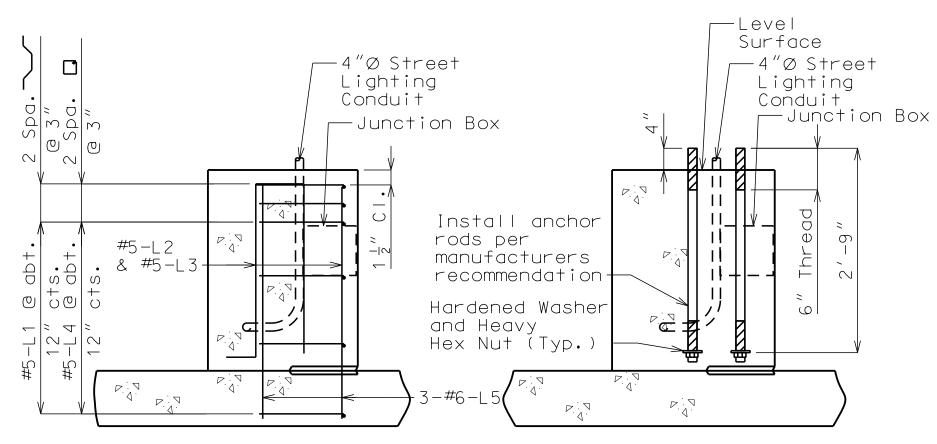
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PART PLAN

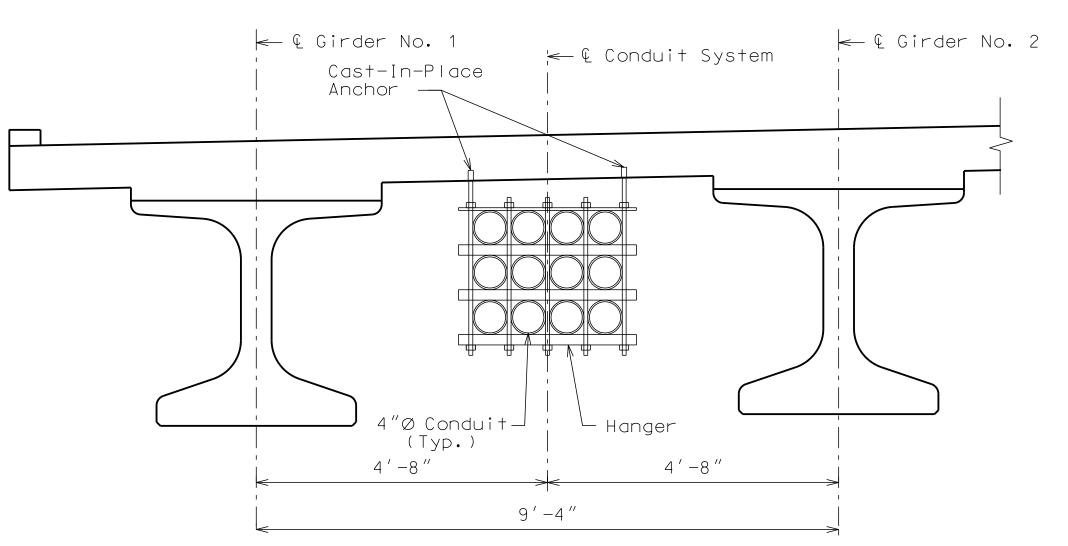
SECTION D-D

L 4

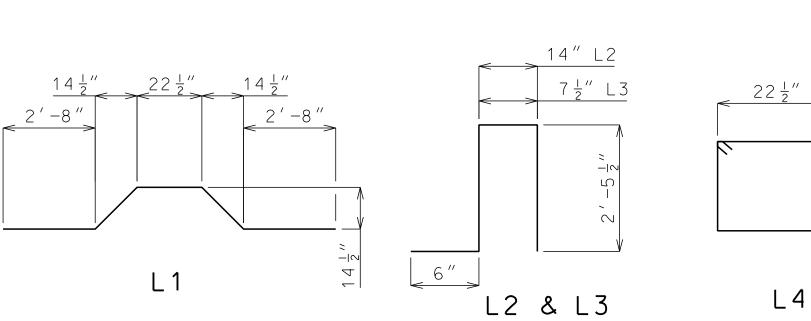


(Conduit not shown for clarity)

LIGHT SUPPORTS ON LEFT BARRIER

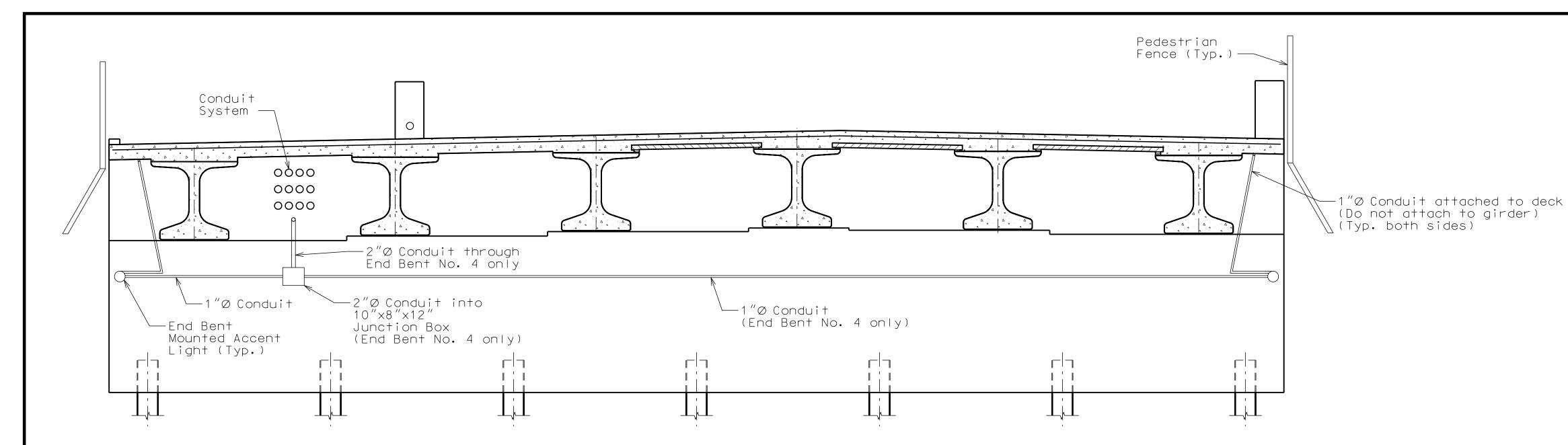


CONDUIT SYSTEM HANGER DETAIL



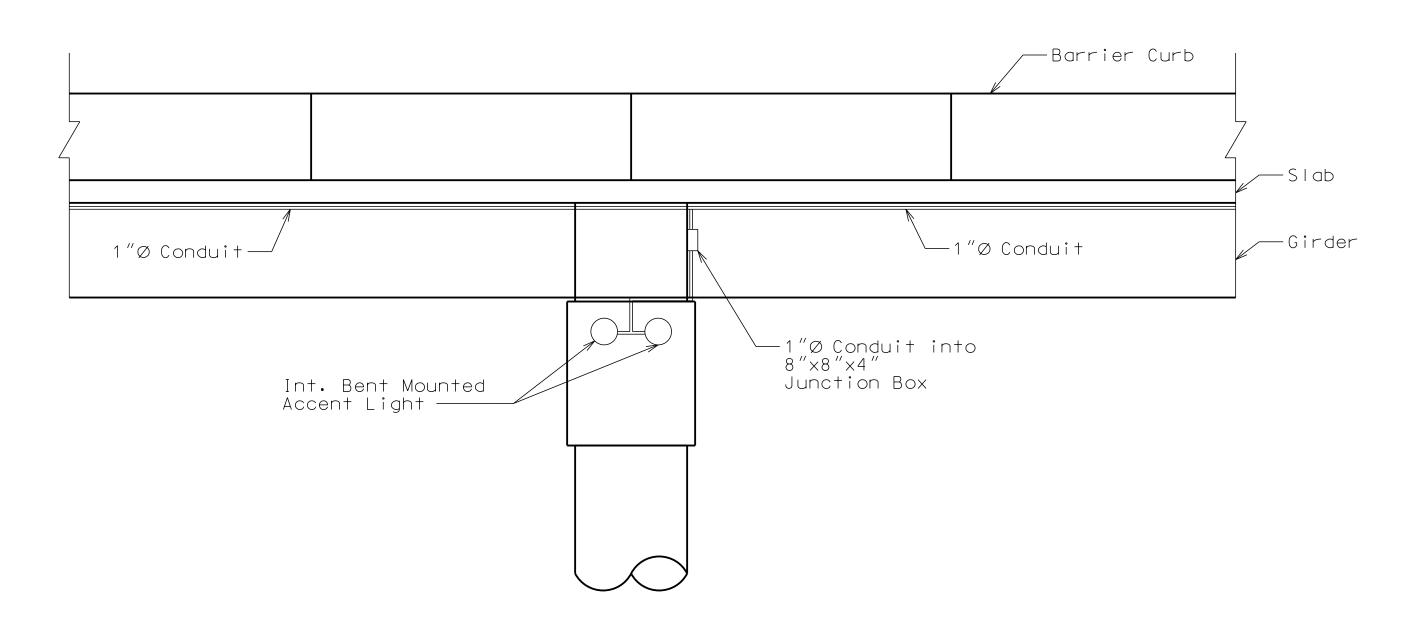
BENDING DIAGRAMS

CONDUIT DETAILS



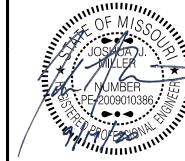
TYPICAL END BENT ELEVATION SHOWING LIGHTING AND CONDUIT

(End Bent No. 4 shown, End Bent No. 1 similar)



TYPICAL INT. BENT ELEVATION SHOWING LIGHTING AND CONDUIT

(Right fascia shown, left fascia similar)



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engineers

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Lenexa, Kansas 66219
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PROJECT NO.:

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SHEETS

707AL
SHEETS

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DESIGN BY:

East Bridge Plans

JOSHUA J. MILLER
PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER

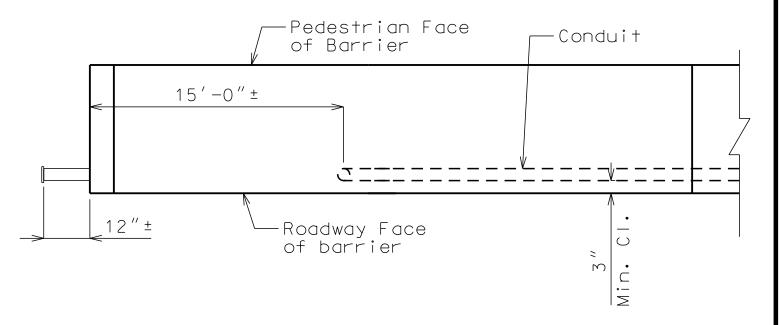
PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER

PE-2009010386

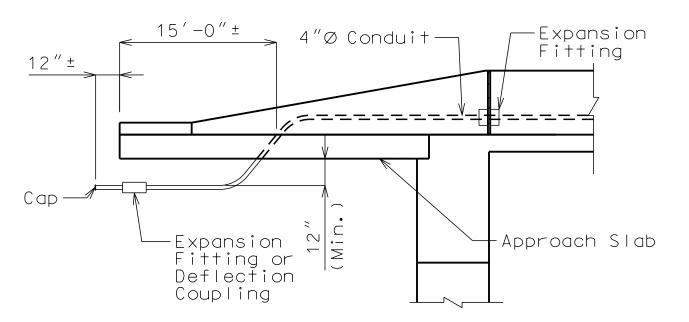
Lee's Summit, Missouri

DATE REVISIONS BY APPROVED



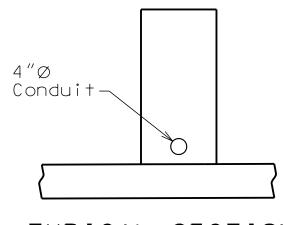
PLAN AT LEFT BARRIER CURB

(Left barrier at End Bent No. 1 shown, left barrier at End Bent No. 4 similar)



ELEVATION SHOWING CONDUITS NEAR END BENTS AT LEFT BARRIER CURB

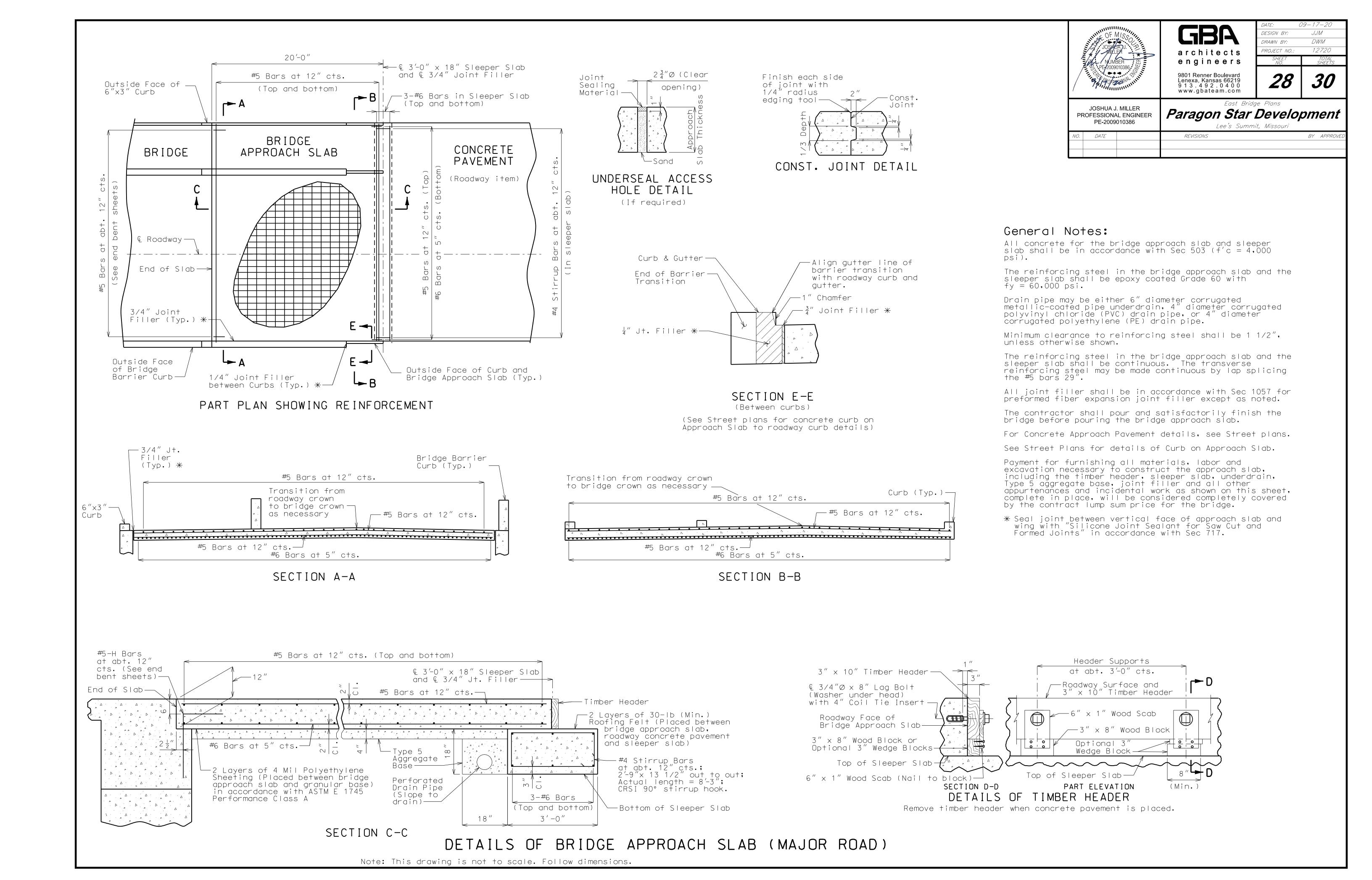
(Left barrier at End Bent No. 1 shown, Left barrier at End Bent No. 4 similar)



TYPICAL SECTION
OF LEFT
BARRIER CURB

CONDUIT DETAILS

Note: This drawing is not to scale. Follow dimensions.





architects engineers

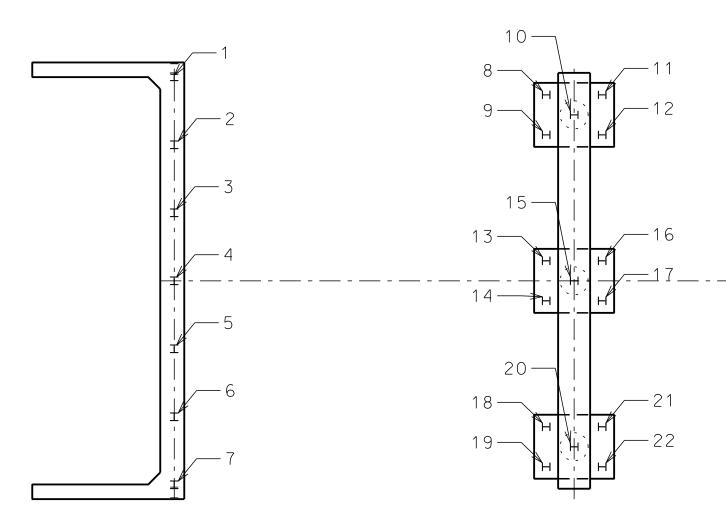
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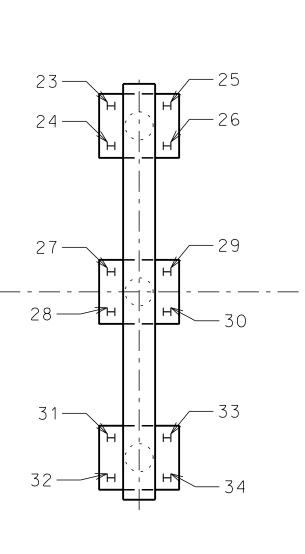
East Bridge Plans

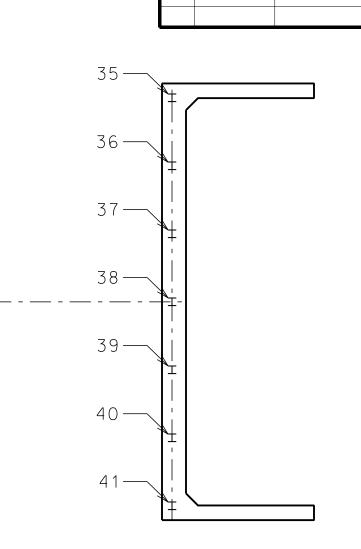
Paragon Star Development

Lee's Summit, Missouri JOSHUA J. MILLER PROFESSIONAL ENGINEER PE-2009010386

REVISIONS







				Pile Do	
Pile No.	Length in Place (ft)	Compressive	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					END BENT NO. 1
1					
2					
3					
4					
5					
6					
7					
					INT. BENT NO. 2
8					
9					
10					
1 1					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

	As-Built Pile Data										
Pile No.	Length in Place (ft)	Compressive Resistance	PDA End of Drive Blow Count (blows/in.)	Count	Remarks						
					INT. BENT NO. 3						
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
					END BENT NO. 4						
35											
36											
37											
38											
39											
40											
41											

Indicate in remarks column:
A. Pile type and grade
B. Batter

C. Driven to practical refusal
D. PDA test pile

E. Minimum tip elevation controlled (Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

This sheet to be completed by City construction personnel.

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	100		SOUN	
		İZLER	*	
700	-/ NC PE/20	JMBER 10901038	36.	
TILL OF		/Eacle N	36. W.	7
		1111111	1111.	

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JJM

JOSHUA J. MILLER PROFESSIONAL ENGINEER

East Bridge Plans

Paragon Star Development

DESIGN BY:

PE-2009010386 REVISIONS DATE

		F	Page 1 of	1
UNCONFINED COMPRESSIVE STRENGTH (tsf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
1.73	25 17	109	41-21-20	
0.29	32 30	97	42-21-21	_
	35			94
	32			
	33			
	37			
	32			95
	19			
	<u>16</u>			
	24			
natic				
019	Borir	ng Com	pleted: 07-01-	-2019
	Drille	er: DB		

BORING LOG NO. B-5

10

15

25—

753.5+/-

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic

15620 W 113th St

Lenexa, KS

Approximate Surface Elev.: 802 (Ft.) +/-

ELEVATION (Ft.)

PROJECT: Paragon Star Bridges

I-470 and View High Drive

LEAN CLAY (CL), brown to gray, medium stiff - with organics to 1.5 feet

- very soft to soft, with fine sand below 8 feet

- stiff with gravel below 38.5 feet

Boring Terminated at 48.7 Feet

Advancement Method:
0 to 10 ft: Continuous Flight Augers
10 to 48.7 ft.: Wash Bore

Boring backfilled with Auger Cuttings

WATER LEVEL OBSERVATIONS

Abandonment Method:

8 ft. while drilling

7 ft. at completion

SHALE, with limestone lenses, gray, highly to moderately weathered

Stratification lines are approximate. In-situ, the transition may be gradual.

Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

Lee's Summit, MO

LOCATION See Exploration Plan

0.5 **6" ROOT ZONE**

Latitude: 38.9389° Longitude: -94.4442°

CLIENT: GBA Lenexa, KS

FIELD TEST RESULTS

2-3-3

N=6

2-2-2 N=4

0-0-0

0-0-0

0-1-1

0-1-1

0-1-1

N=2

5-7-7 N=14

50/5"

50/2"

Hammer Type: Automatic

Boring Started: 07-01-2019

Project No.: 02195051

Drill Rig: 884

N=2

N=2

N=0

N=0

X | 12 |

 \times \mid 12 \mid

X | 12 |

		BOR	ING LO	OG N	10	. В	8-7				F	Page 1 of	1
PI	ROJ	ECT: Paragon Star Bridges		CLIEN			A iexa, l	KS					
SI	ITE:	I-470 and View High Drive Lee's Summit, MO					icxu, i						
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 38.9389° Longitude: -94.4435° Approximate Surface Elever DEPTH	v.: 816 (Ft.) +/- .EVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	UNCONFINED COMPRESSIVE STRENGTH (tsf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
		0.5 6" ROOT ZONE LEAN CLAY (CL), with fine sand, brown to gray, medium stiff	815.5+ <i>l</i>	5 —		\times	10	2-3-3 N=6		21			
		- very soft to soft below 8.5 feet		10-	∇	X	12	0-2-1 N=3	_	29	-		
				15— - -		X	12	0-0-0 N=0		33	-		
2				20-		X	3	0-0-1 N=1		32			99
				25		X	6	0-0-0 N=0		35			
				30-		\times	12	0-0-0 N=0		38			
				35		\times	12	0-0-0 N=0		33			98
		43.5	772.5+/-	40-		\times	12	1-1-1 N=2 50/3"		33			
3		SHALE, gray, highly to moderately weathered 48.7	767.5+/-	45			2	50/2"		21			
		Boring Terminated at 48.7 Feet						00,2					
	Cla ma	ratification lines are approximate. In-situ, the transition may be gradulassification estimated from disturbed samples. Core samples and peay reveal other rock types. ent Method: See Explo	etrographic anal		-1			ammer Type: Au	tomatic	<u> </u>			
0 t 10	to 10 ft) to 48.	:: Continuous Flight Augers 7 ft.: Wash Bore See Supp	oration and Test on of field and la additional data porting Informati and abbreviation	boratory p (If any). on for exp	roceo	dures		ico.					
	oring ba	ackfilled with Auger Cuttings Elevations site plan	s were interpola		a topo	grapl	nic						
∇		WATER LEVEL OBSERVATIONS	erra -	3 C		n	Borii Drill	ng Started: 07-02 Rig: 884	2-2019	+	ng Comp er: DB	oleted: 07-02	-2019
/	QI	5 ft. at completion				_ 4	, 101111				<u>-</u>		

GENERAL NOTES

1. "A" SERIES DRAWINGS PERTAIN TO, BUT ARE NOT LIMITED TO: BRIDGE RAILS, RAIL STRUCTURE, RAIL FINISHES, AND BRIDGE LIGHTING.

2. ALL SPOT ELEVATIONS ARE TO STATE BASE PLANE COORDINATES USED BY THE BRIDGE AND CIVIL

3. ALL SPOT ELEVATIONS ARE FOR GENERAL COORDINATION PURPOSES ONLY. REFERENCE CIVIL AND BRIDGE SCOPES FOR OFFICIAL ELEVATIONS.

4. ALL WELDS ARE TO BE CONTINUOUS AND WATER TIGHT U.N.O.

5. ALL STEEL IS TO BE FULLY GALVANIZED. ANY GALVANIZING REMOVED DURING THE CONSTRUCTION OR INSTALLATION PROCESS SHALL BE REPAIRED WITH A ZINC-RICH PRIMER. BECAUSE ZINC-RICH PRIMER IS UNDERSTOOD TO BE A SHORTER LIVED FINISH AS WELL AS HAVING A DIFFERENT APPEARCE THAN ACTUAL GALVANIZING, EVERY EFFORT SHALL BE MADE TO MINIMIZE RELIANCE UPON ZINC-RICH PRIMER

6. ANY DIMENSIONS BETWEEN PRIMARY STRUCTURAL ELEMENTS (SUCH AS GRIDS) ARE FOR REFERENCE ONLY. REFERENCE BRIDGE STUCTURE DRAWINGS FOR OFFICIAL DIMENSIONS OF BRIDGE STRUCTURE.

7. ALSO FOR REFERENCE ONLY ARE PORTRAYAL OF BRIDGE COMPONENTS, INCLUDING BUT NOT LIMITED TO: BRIDGE DECK, CURB TRANSITION BARRIERS, ROADWAY BARRIERS, GIRDERS, PIER BEAMS, PIERS. ABUTMENTS, ABUTMENT WING WALLS, AND APPROACH SLABS. REFERENCE BRIDGE STUCTURE DRAWINGS FOR OFFICIAL DOCUMENTATION OF BRIDGE COMPONENTS.

8. REFERENCE CIVIL DRAWINGS FOR ADJACENCT CIVIL SCOPE, INCLUDING BUT NOT LIMITED TO: ADJACENT DRIVE PAVING, CURBS, MEDIANS, AND STREET SIGNAGE.

9. REFERENCE BRIDGE ELECTRICAL/LIGHTING PACKAGE FOR ADDITIONAL LIGHTING INFORMATION AT BRIDGE DECK LIGHTING AND AT BRIDGE SIDE LIGHTING.

10. FOR INFORMATION ON CONDUIT ROUTING, REFERENCE ALL OF THE FOLLOWING: BRIDGE RAIL DRAWINGS, BRIDGE DRAWINGS, ELECTRICAL/LIGHTING DRAWINGS.

11. ALL ELECTRICAL CONDUIT SHALL BE WRAPPED TIGHT TO AND ALIGNED WITH ADJACENT SURFACES. RADIUSED CORNERS ARE TO BE KEPT TO BUILDABLE MINIMUM, AND CHANGES IN DIRECTION SHALL BE 90 DEGREES WHERE POSSIBLE.

CODE INFORMATION

IBC 2018 **GUARD RAIL** HEIGHT: 42" MINIMUM WHERE REQUIRED: AT LOCATIONS OF ELEVATION CHANGE > 30". STRUCTURAL RESISTANCE FOR HORIZONTAL FORCES POINT LOAD: 200 LB DESTRIBUTED LOAD: 50 LB / LF MAXIMUM OPENING WIDTH: 4"

PROJECT-SPECIFIC TERMINOLOGY

OFFICIAL TERMS USED THROUGHOUT RAIL SCOPE ARE DENOTED BY ITALICS.

BRIDGE AND CIVIL - (FOR REFERENCE ONLY, SEE BRIDGE AND CIVIL DWGS FOR OFFICIAL TERMINOLOGY PERTAINING TO RESPECTIVE SCOPES)

DRIVE - PAVED PATH INTENDED FOR VEHICULAR TRAVEL. ALSO CALLED A ROAD

APPROACH SLAB - ROADWAY SURFACE TRANSITION SITUATED BETWEEN THE BRIDGE DECK AND DRIVE.

BRIDGE - A STRUCTURE SPANNING A LAND AREA OF RELATIVELY LOWER GRADE ELEVATIONS, TYPICALLY CONNECTING DRIVES AND/OR PEDESTRIAN PATHWAYS ON EITHER SIDE.

ROADWAY - AT A PAVED DRIVE OR BRIDGE, THE PORTION OF CONSTRUCTION INTENDED FOR VEHICULAR TRAVEL.

SIDEWALK - TYPICALLY RUNNING PARALLEL WITH AND IN VICINITY TO A DRIVE, A PAVED GROUND CONSTRUCTION INTENDED FOR TRAVEL BY INHABITANTS ON FOOT (PEDESTRIANS).

PEDESTRIAN PATHWAY - ON A BRIDGE, THE PORTION OF THE BRIDGE DECK INTENTED FOR INHABITANTS ON FOOT (PEDISTRIANS).

BRIDGE DECK - THE CONTINOUS HORIZONTAL CONCRETE SLAB WORKING IN CONCERT WITH THE REST OF THE BRIDGE STRUCTURE. THE DECK'S PRIMARY FUNCTIONS ARE: 1. PROVIDE A FINISH SURFACE FOR VEHICLES AND PEDESTRIANS ON THE BRIDGE. 2. (IN SOME CASES) ACT AS A DIAPHRAGM, PROVIDING STABILITY TO OVERALL STRUCTURAL SYSTEM OF THE BRIDGE (RE: BRIDGE DWGS). 3. THE BRIDGE DECK AND BRIDGE DECK EDGE ANGLE TRANSFER LOADS FROM THE RAIL ASSEMBLIES AND ROADWAY BARRIERS BACK TO THE BRIDGE GIRDERS, PIER BEAMS AND BRIDGE PIERS.

BRIDGE DECK EDGE ANGLE - THE EMBEDDED STEEL SHAPE AT THE BRIDGE DECK EDGE PROVIDING FOR THE RAIL ASSEMBLIES IN-FIELD ATTACHMENT TO THE BRIDGE DECK.

ABUTMENT - AN ASSEMBLY OF VERTICAL CONCRETE WALLS LOCATED AT THE ENDS OF EACH BRIDGE CLEAR SPAN. INCLUDES THE MAIN ABUTMENT AND ABUTMENT WING WALLS.

ABUTMENT (MAIN) - THE PORTION OF THE ABUTMENT RUNNING PERPENDICULAR TO THE DIRECTION OF BRIDGE TRAVEL. MAIN ABUTMENT'S PRIMARY FUNCTIONS ARE TO: 1. SUPPORT THE END RUNS OF BRIDGE GIRDERS AND 2. RETAIN SOIL UNDER THE APPROACH SLAB.

ABUTMENT (WING WALLS) - THE RETURN LEGS OF THE ABUTMENT RUNNING PARALLEL WITH THE DIRECTION OF BRIDGE TRAVEL. THE WING WALLS PRIMARY FUNCTIONS ARE: 1. TO RETAIN SOIL UNDER THE APPROACH SLABS.

ROADWAY BARRIER - A CONCRETE WALL ON TOP OF THE BRIDGE DECK WHOSE PRIMARY FUNCTIONS INCLUDE: KEEPING VEHICLES ON THE ROADWAY 2. KEEPING PEDESTRIANS OFF THE ROADWAY (PEDESTRIAN/ROADWAY **BARRIER** WHEN DOING BOTH).

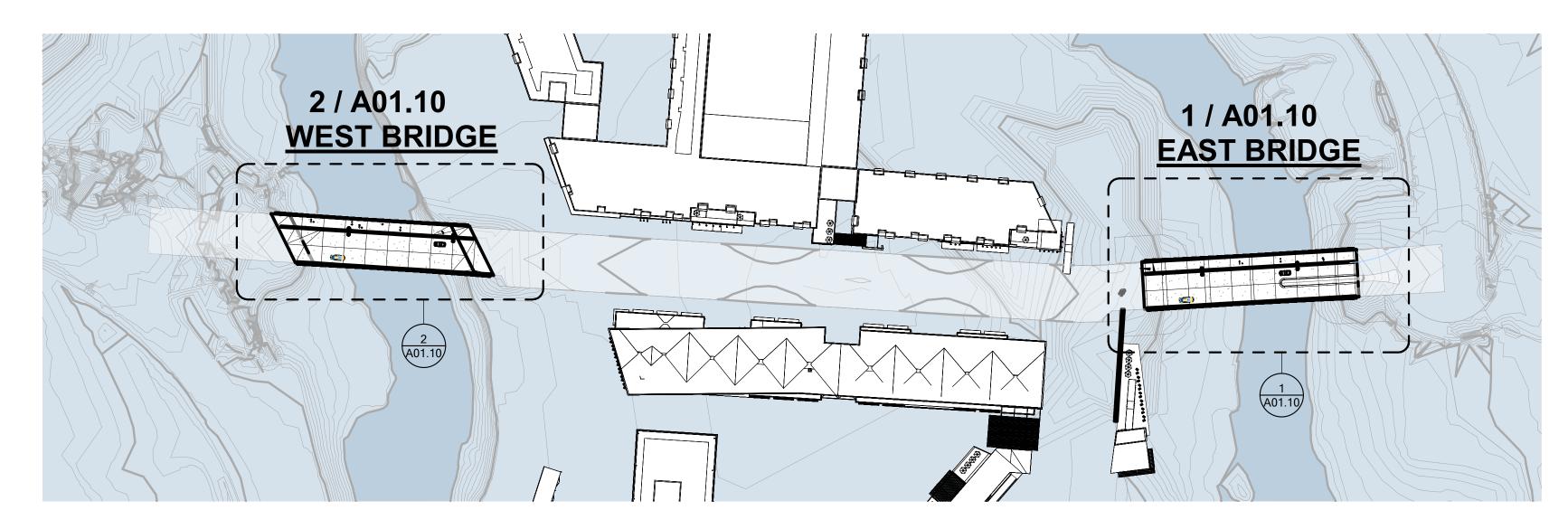
CURB - CONCRETE PROFILE ALONG THE ROADWAY EDGE WHOSE PRIMARY FUNCTIONS INCLUDE: 1. CHANNELING WATER DRAINAGE ALONG DESIGNED PATHWAYS 2. KEEPING STRAY VEHICLES ON THE ROADWAY BY ACTING AS A MINOR PHYSICAL BARRIER AND AS A NOTIFICATION.

CURB TRANSITION BARRIER - CONCRETE WALL WITH A SLOPING TOP SURFACE, ACTING AS A GRADUAL CHANGE IN HEIGHT FROM A ROADWAY CURB TO A BRIDGE ROADWAY BARRIER. PRIMARY FUNCTIONS: 1. ELIMINATE A BLUNT FORCE IMPACT OF STRAY VEHICALS UPON CROSSING A BRIDGE

BRIDGE LONG SPAN GIRDERS - STRUCTURAL MEMBERS THAT SPAN THE OPENING BENEATH THE BRIDGE, SITUATED UNDER THE BRIDGE DECK AND OVER THE BRIDGE PIER BEAMS / BENTS.

BRIDGE PIER BEAMS OR BENTS - CONCRETE GIRDER DIRECTLY ATOP BRIDGE PIERS, THESE MEMBERS COLLECT ALL THE FORCES OF THE LONG SPAN BRIDGE GIRDERS AND "BENDS" (BENT) THE FORCES TO THE PIERS.

BRIDGE PIERS - SITUATED AT INTERMEDIATE BRIDGE BENTS, PIERS ARE VERTICAL CONCRETE COLUMNS WHOSE PRIMARY FUNCTIONS ARE TO: 1. TRANSFER VERTICAL LOADS FROM BRIDGE PIER BEAMS TO PIER FOUNDATION SYSTEMS IN THE GROUND. 2. CREATE A CLEARING UNDER A BRIDGE FOR OTHER ENTITIES (SUCH AS WATER) TO PASS. 3. MAINTAIN A PLAN PROFILE THAT REDUCES FRICTION BETWEEN MOVING WATER PASSING UNDER THE BRIDGE.



SITE PLAN - ARCHITECTURAL

A01.00 SCALE: 1" = 100'-0"





RAIL VERT - A SINGLE VERTICAL STEEL MEMBER OR "PICKET" IN THE RAIL ASSEMBLY. RAIL VERTS MAKE UP THE BULK OF THE MEMBERS IN THE RAIL ASSEMBLIES.

RAIL HORIZONTAL - A CONTINUOUS STEEL MEMBER, MORE OR LESS HORIZONTAL, THAT CONNECTS MULTIPLE RAIL VERTS TO MAKE A RIGID RAIL GUARD.

RAIL GUARD - THE RIGID COLLECTION OF RAIL VERTS AND RAIL HORIZONTALS.

WING WALL FACE PLATE - AT BRIDGE ABUTMENT WING WALLS, A SURFACE APPLIED PLATE PROVIDING FOR THE RAIL ASSEMBLIES' ATTACHMENT TO THE ABUTMENT WING WALL.

RAIL ANCHORAGE - ANY CONNECTIVE STEEL INTERMEDIATE TO THE RAIL GUARD AND EITHER THE BRIDGE DECK EDGE ANGLE (NORTH AND SOUTH RAIL RUNS AT BRIDGE DECK), WING WALL FACE PLATE (NORTH AND SOUTH RAIL RUNS AT WING WALLS), OR ROADWAY/PEDESTRIAN BARRIER (MIDDLE RAIL RUNS).

RAIL ASSEMBLY - A COLLECTION OF RAIL VERTS, RAIL HORIZONTALS, AND RAIL ANCHORAGE TO BE SHOP FABRICATED INTO A SINGLE, RIGID CONSTRUCTION FOR HOT-DIP GALVANIZING AND SHIPPING TO THE SITE. RAIL ASSEMBLY LENGTH SHALL BE DICTATED BY SIZE OF GALVANIZING TANK AVAILABLE TO CONTRACTOR.

RAIL RUN - REFERS TO A CONTINUOS COLLECTION OF SEQUENTIAL RAIL ASSEMBLIES ALONG A SINGLE PATH. BOTH THE WEST AND EAST BRIDGES EACH HAVE A SOUTH, NORTH, AND MIDDLE RAIL RUN.

BASELINE ELEVATION - A THEORETICAL ELEVATION ESTABLISHED FOR EACH RAIL RUN TO: 1. ALLOW COMMUNICATION OF VERTICAL DIMENSIONS USING SMALLER VALUES 2. ASSIST THE METAL FABRICATOR IN ALIGNING RAIL COMPONENTS DURING SHOP ASSEMBLY AND FIELD INSTALLATION. THE BASELINE ELEVATION IS SET AT 1'-0" BELOW THE LOWEST POINT OF THE ENTIRE RAIL RUN.

RAIL BREAK - MITERED JOINT IN RAIL VERT.

WEST BRIDGE - RAIL SHEET LIST

REV# SHEET# DESCRIPTION

GENERAL - SITE PLAN A01.00

A01.10 PLANS

A03.10 WEST BRIDGE - NORTH RAIL RUN WEST BRIDGE - SOUTH RAIL RUN

A03.12 WEST BRIDGE - MIDDLE RAIL RUN RAIL DETAILS

A05.20 A05.21 RAIL DETAILS

A05.30 LIGHT MOUNT DETAILS

RAIL VERT TYPES A06.10 A06.11 SCHEDULE - WEST BRIDGE RAIL VERTS - NORTH RAIL RUN

A06.12 SCHEDULE - WEST BRIDGE RAIL VERTS - SOUTH RAIL RUN SCHEDULE - WEST BRIDGE RAIL VERTS - MIDDLE RAIL RUN

EAST BRIDGE - RAIL SHEET LIST

REV# SHEET# DESCRIPTION

GENERAL - SITE PLAN A01.00 A01.10

EAST BRIDGE - NORTH RAIL RUN A03.20

EAST BRIDGE - SOUTH RAIL RUN A03.21

A03.22 EAST BRIDGE - MIDDLE RAIL RUN

A05.20 RAIL DETAILS

A05.21 RAIL DETAILS

A05.30 LIGHT MOUNT DETAILS A06.10 RAIL VERT TYPES

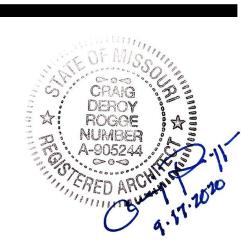
SCHEDULE - EAST BRIDGE RAIL VERTS - NORTH RAIL RUN

A06.15 SCHEDULE - EAST BRIDGE RAIL VERTS - SOUTH RAIL RUN

SCHEDULE - EAST BRIDGE RAIL VERTS - MIDDLE RAIL RUN

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REV DATE DESCRIPTION



PROJECT NUMBER 12720.62

2020.09.17

DATE

ISSUE FOR CONSTRUCTION

DESIGNED: NJC DRAWN: NJC **REVIEWED:** CLR

SHEET TITLE

GENERAL - SITE PLAN

SHEET NUMBER A01.00

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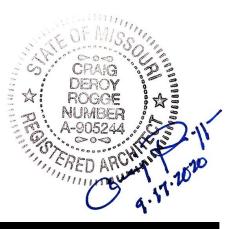
Engineering COA# E-92 Architecture COA# A-45 Land Sureveying COA# LS-8



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IST BRIDGE PLANS

REV	DATE	DESCRIPTION



PROJECT NUMBER 12720.62

DATE

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REVIEWED: CLR

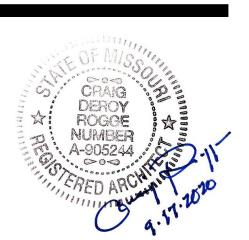
SHEET TITLE

PLANS

SHEET NUMBER

A01.10

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PROJECT NUMBER 12720.62

DATE

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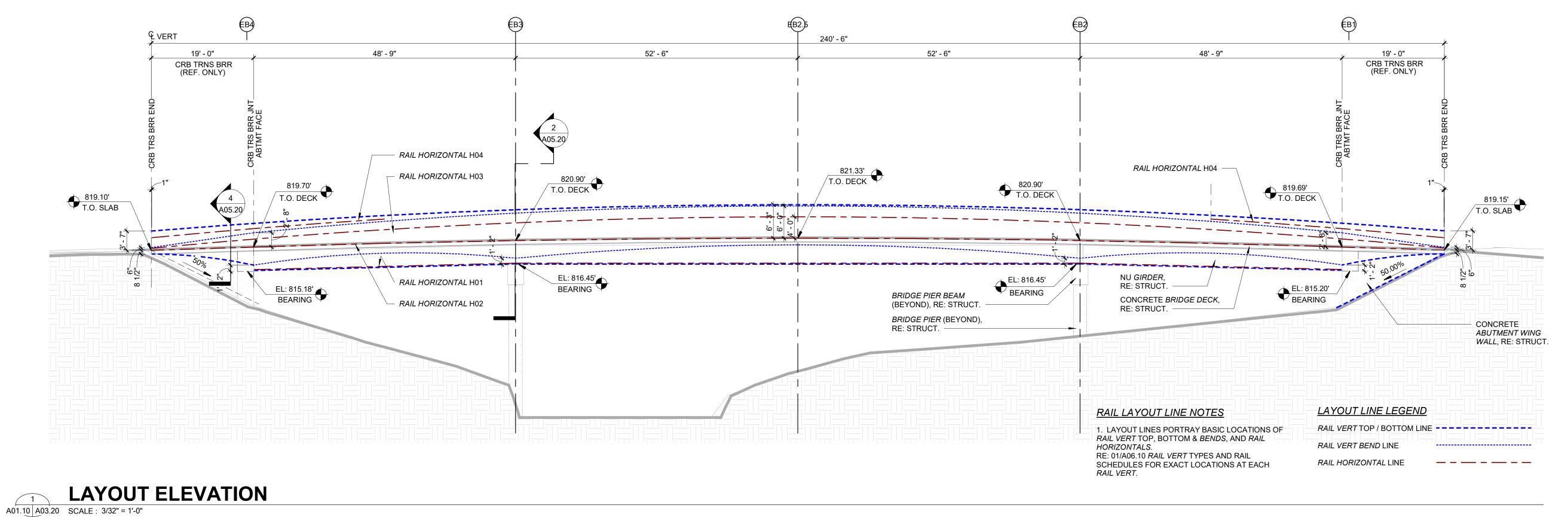
DESIGNED:	NJC
DRAWN:	NJC
REVIEWED:	CLR

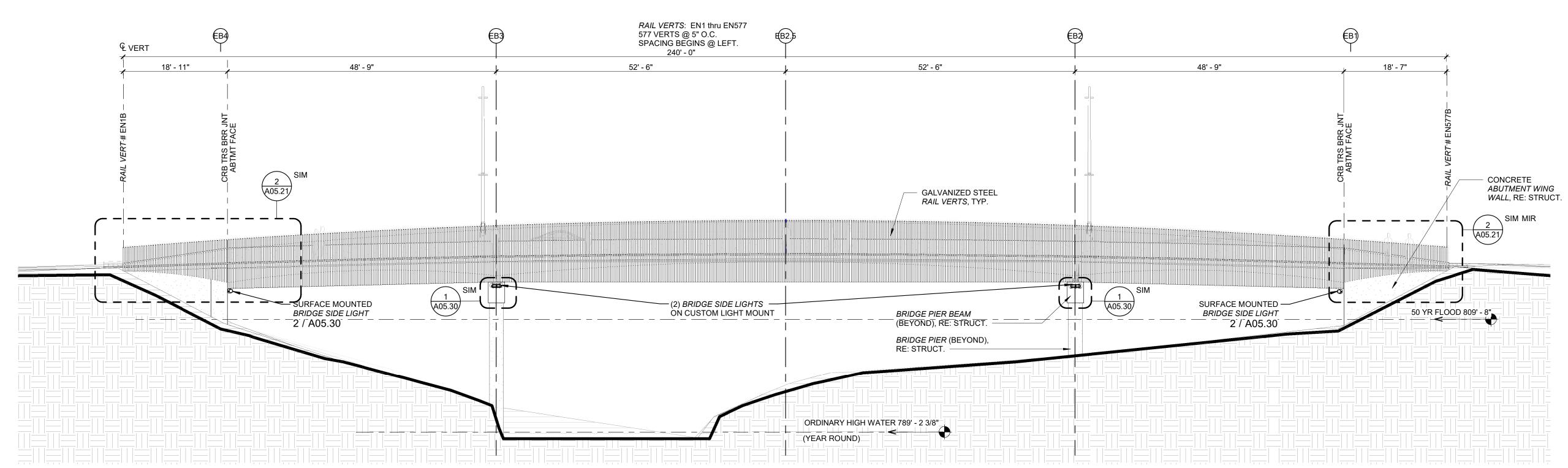
SHEET TITLE EAST BRIDGE - NORTH RAIL RUN

SHEET NUMBER

A03.20

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ELEVATION A01.10 A03.20 SCALE: 3/32" = 1'-0"

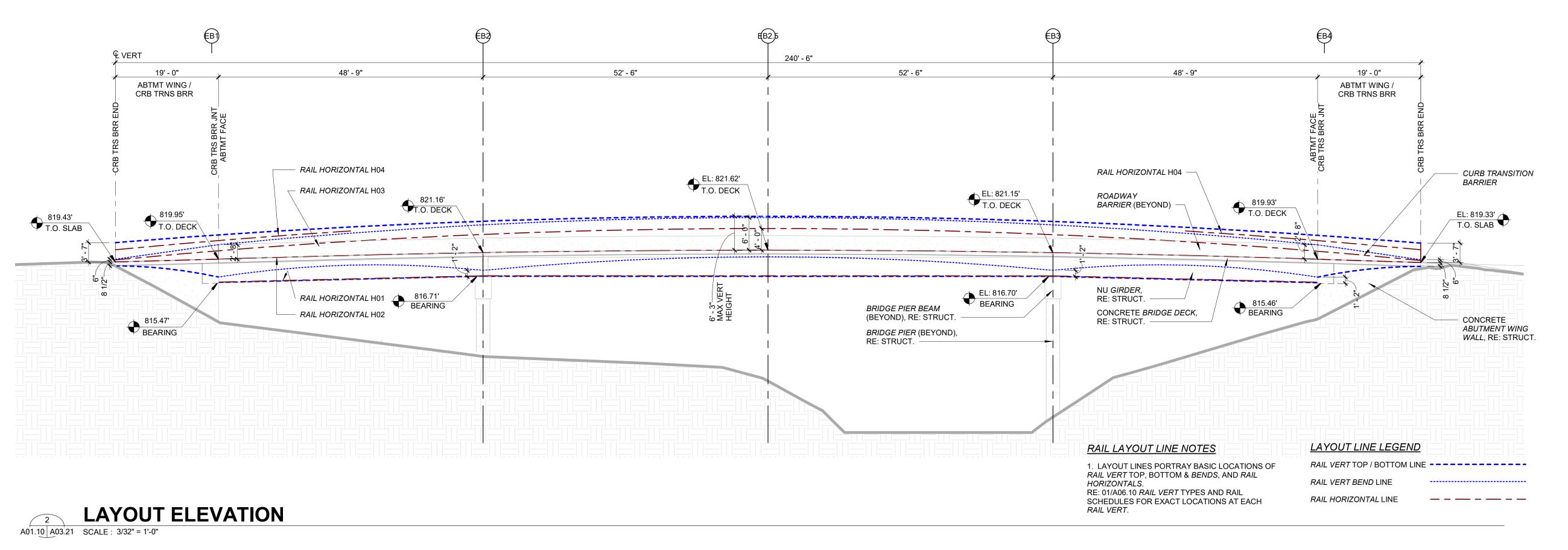
RAIL REFERENCE

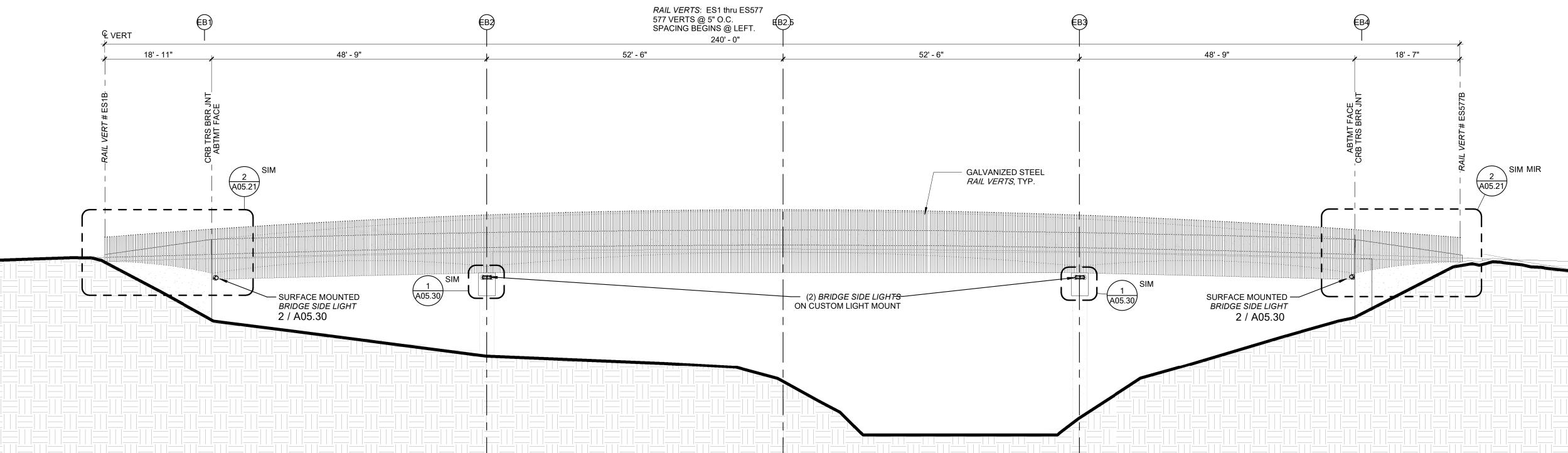
1. RE: A01.00 FOR PROJECT TERMINOLOGY.

2. RE: RAIL ELEVATIONS FOR: a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT c. RAIL VERT BENDS LAYOUT.

3. RE: 1 / A06.10 FOR: a. RAIL VERT CONFIGURATION TYPES.

4. RE: RAIL SCHEDULES FOR:
a. RAIL VERT VERTICAL LOCATION RELATIVE a. RAIL VERT VERTICAL LOCATION RELATIVE
TO EACH RAIL RUN BASELINE ELEVATION
b. RAIL VERT LEG LENGTHS
c. RAIL VERT BEND ANGLES
d. ANCHORAGE LOCATIONS
e. RAIL HORIZONTAL LOCATIONS





ELEVATION A01.10 A03.21 SCALE: 3/32" = 1'-0"

RAIL REFERENCE

1. RE: A01.00 FOR PROJECT TERMINOLOGY.

2. RE: RAIL ELEVATIONS FOR: a. RAIL VERT LAYOUT
b. RAIL HORIZONTAL LAYOUT
c. RAIL VERT BENDS LAYOUT.

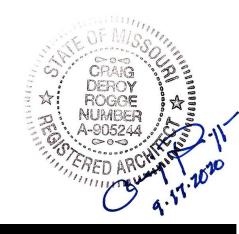
3. RE: 1 / A06.10 FOR: a. RAIL VERT CONFIGURATION TYPES.

4. RE: RAIL SCHEDULES FOR:
a. RAIL VERT VERTICAL LOCATION RELATIVE

a. RAIL VERT VERTICAL LOCATION RELATIVE
TO EACH RAIL RUN BASELINE ELEVATION
b. RAIL VERT LEG LENGTHS
c. RAIL VERT BEND ANGLES
d. ANCHORAGE LOCATIONS
e. RAIL HORIZONTAL LOCATIONS

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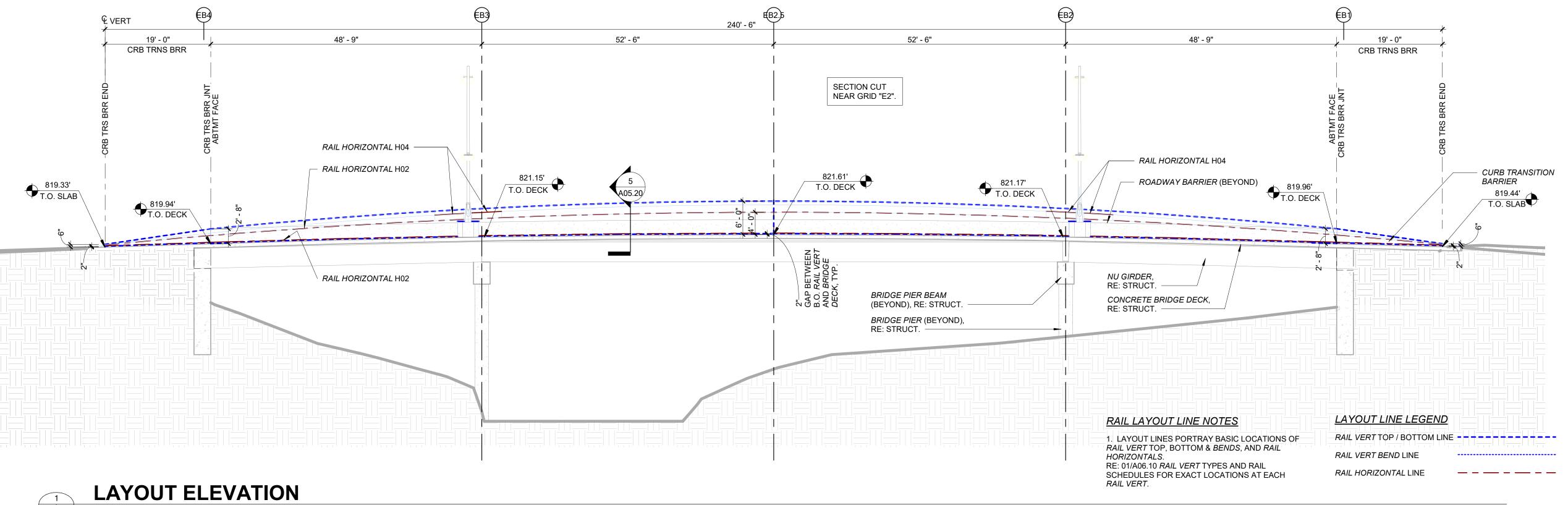
SHEET TITLE EAST BRIDGE - SOUTH RAIL RUN

SHEET NUMBER

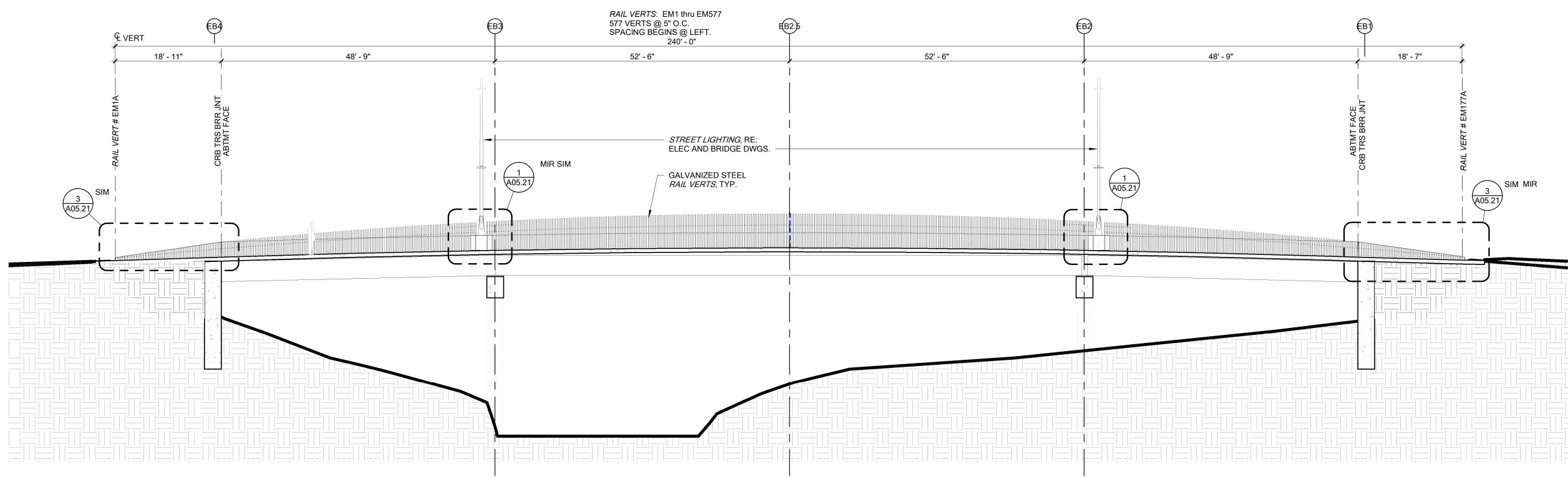
A03.21

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Land Sureveying COA# LS-8



A01.10 A03.22 SCALE: 3/32" = 1'-0"



ELEVATION A01.10 A03.22 SCALE: 3/32" = 1'-0"

RAIL REFERENCE

- 1. RE: A01.00 FOR PROJECT TERMINOLOGY.
- 2. RE: RAIL ELEVATIONS FOR: a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT c. RAIL VERT BENDS LAYOUT.
- 3. RE: 1 / A06.10 FOR: a. RAIL VERT CONFIGURATION TYPES.
- 4. RE: RAIL SCHEDULES FOR:
 a. RAIL VERT VERTICAL LOCATION RELATIVE
 TO EACH RAIL RUN BASELINE ELEVATION
 b. RAIL VERT LEG LENGTHS
 c. RAIL VERT BEND ANGLES
 d. ANCHORAGE LOCATIONS
 e. RAIL HORIZONTAL LOCATIONS



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REV	DATE	DESCRIPTION



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DATE

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DESIGNED: NJC DRAWN: NJC REVIEWED: CLR SHEET TITLE

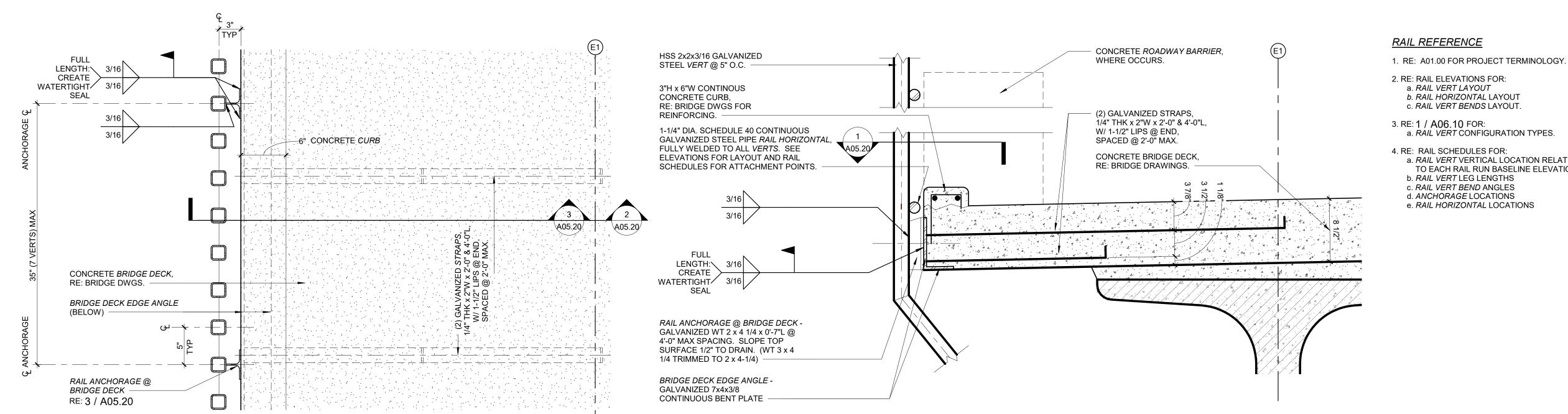
EAST BRIDGE - MIDDLE RAIL

SHEET NUMBER

A03.22

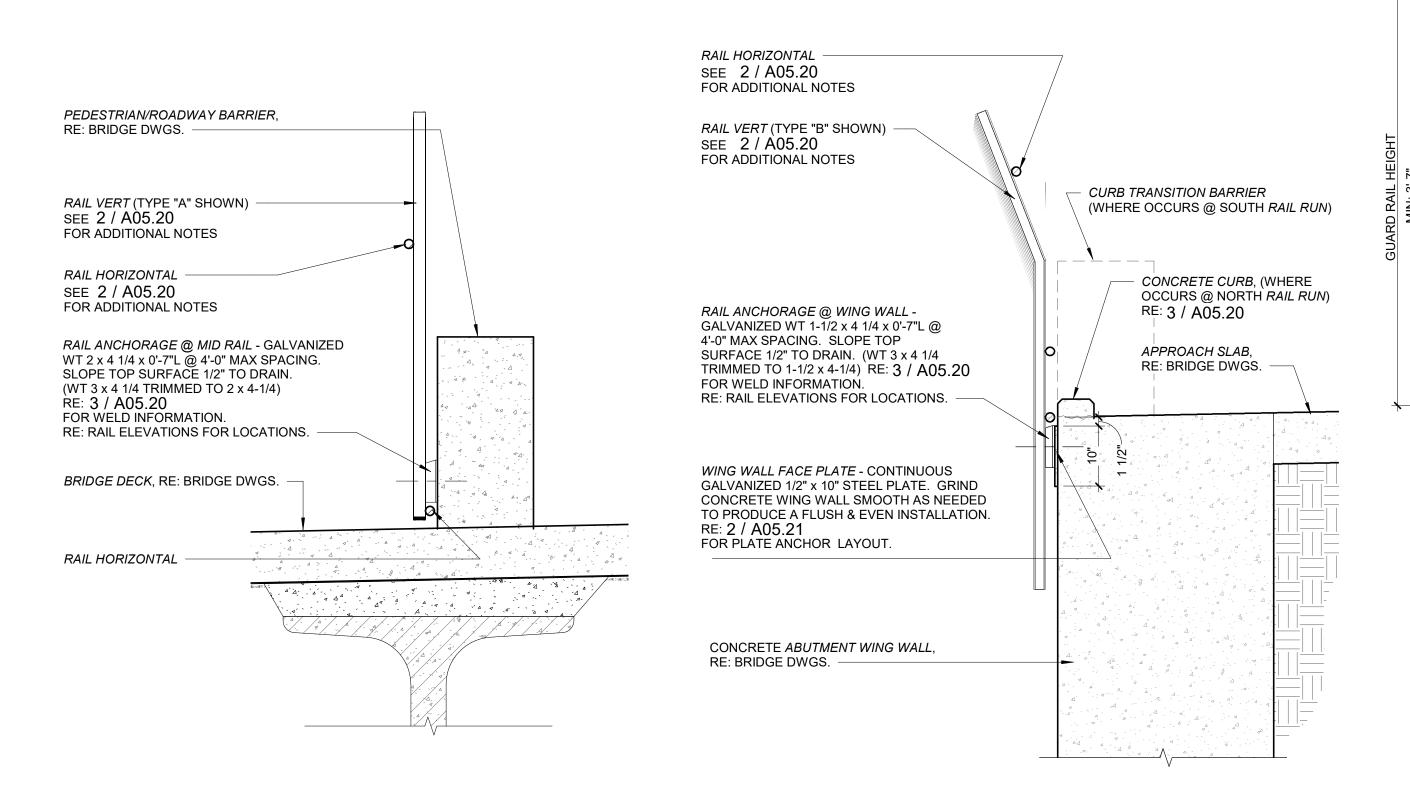
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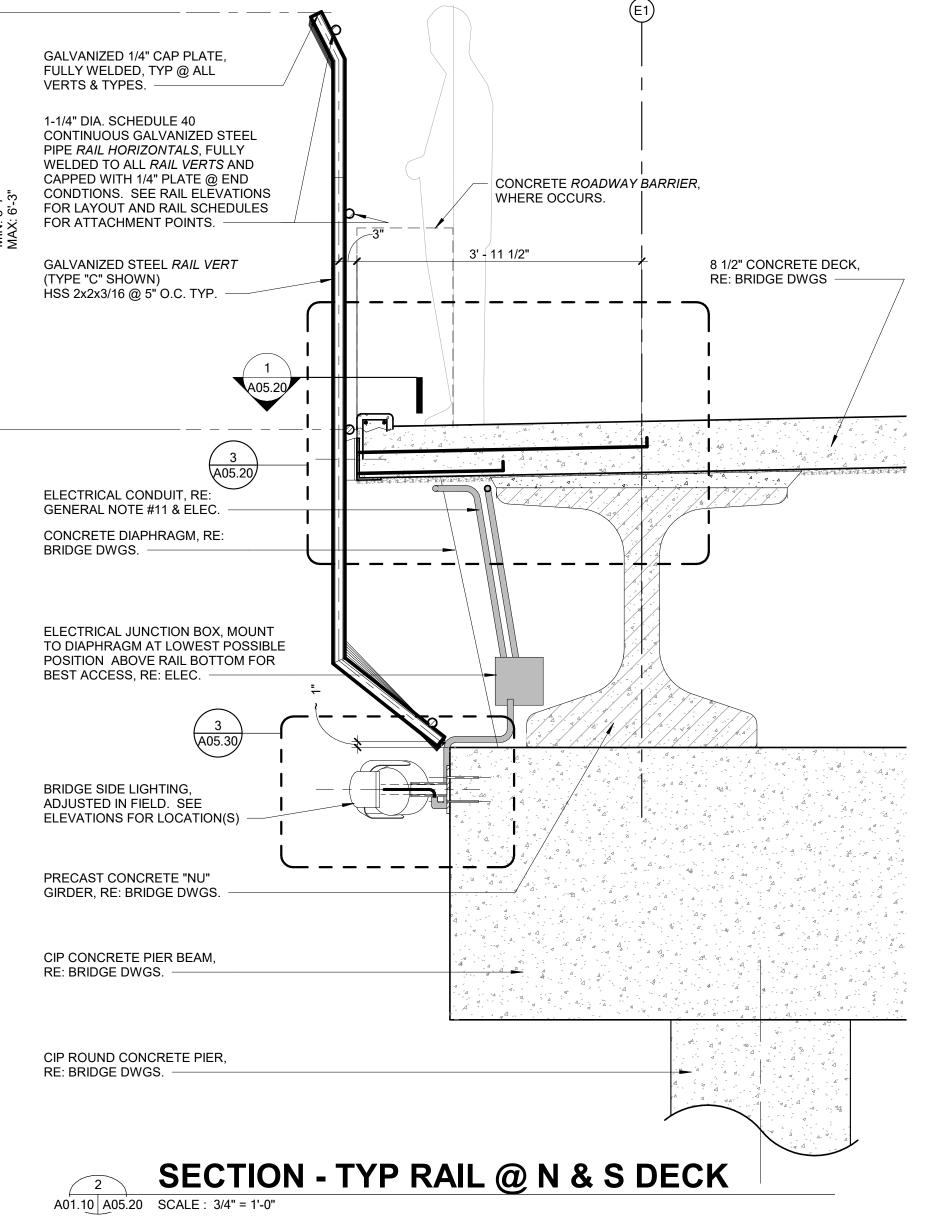
Land Sureveying COA# LS-8



DETAIL - RAIL @ DECK EDGE - TYP

A05.20 A05.20 SCALE: 1 1/2" = 1'-0"







a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT

c. RAIL VERT BENDS LAYOUT.

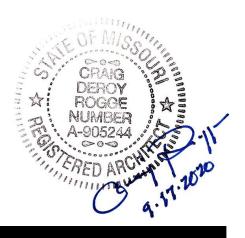
b. RAIL VERT LEG LENGTHS c. RAIL VERT BEND ANGLES d. ANCHORAGE LOCATIONS e. RAIL HORIZONTAL LOCATIONS

a. RAIL VERT VERTICAL LOCATION RELATIVE

TO EACH RAIL RUN BASELINE ELEVATION

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RAIL DETAILS

SHEET NUMBER A05.20

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TYP RAIL SECTION @ MID RAIL A01.10 A05.20 SCALE: 3/4" = 1'-0"

PLAN DETAIL @ TYP. ANCHORAGE

A05.20 A05.20 SCALE: 1 1/2" = 1'-0"

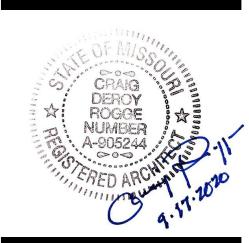
SECTION - TYP RAIL @ N & S ENDS A01.10 A05.20 SCALE: 3/4" = 1'-0"

GBA

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T BRIDGE PLANS

REV DATE DESCRIPTION



PROJECT NUMBER 12720.62

2020.09.17

DATE

DESIGNED:

DRAWN: NJC

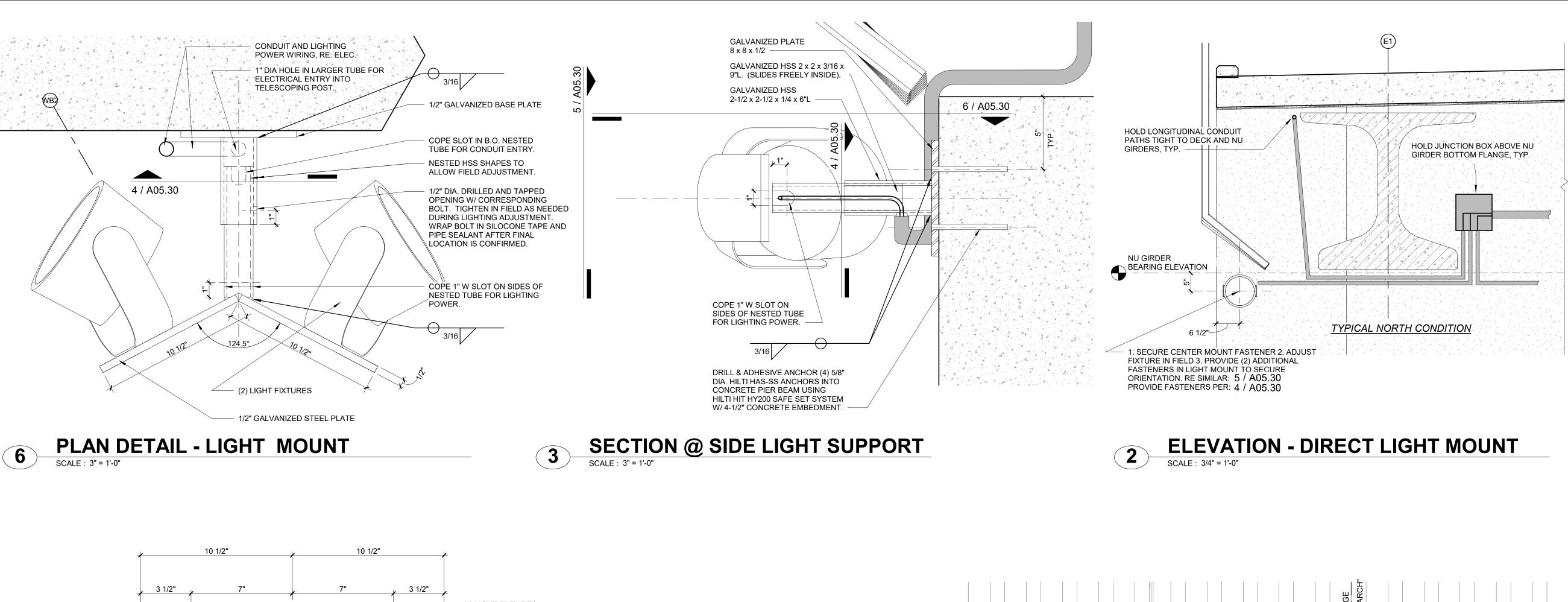
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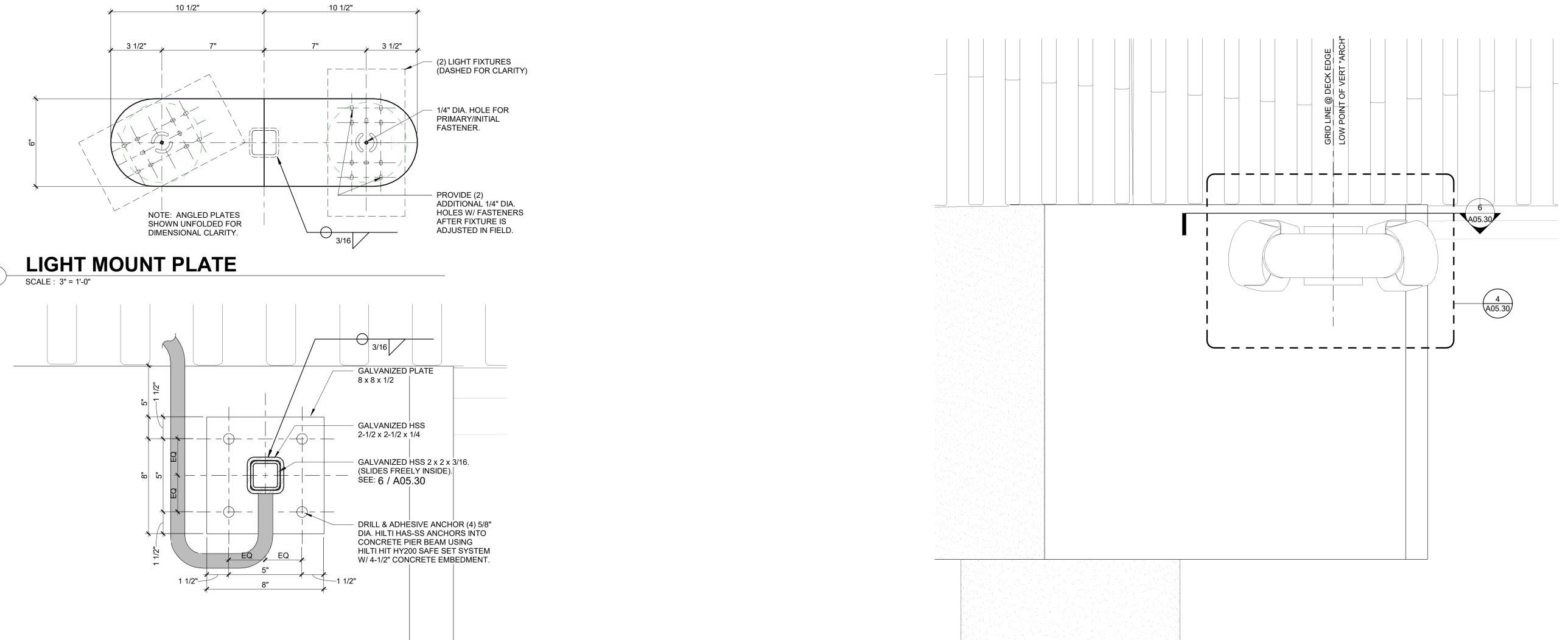
SHEET TITLE

RAIL DETAILS

SHEET NUMBER

A05.21



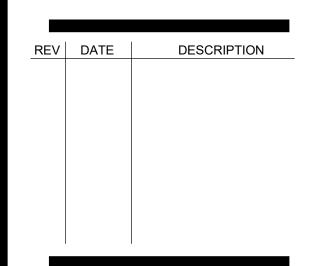


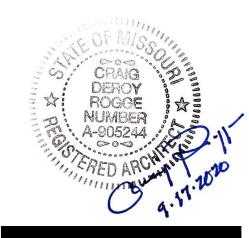
LIGHT MOUNT BASE PLATE

GBA

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AST BRIDGE PLANS





PROJECT NUMBER 12720.62

DATE

2020.09.17
ISSUE FOR CONSTRUCTION

DESIGNED: NJC
DRAWN: NJC
REVIEWED: CLR
SHEET TITLE

LIGHT MOUNT DETAILS

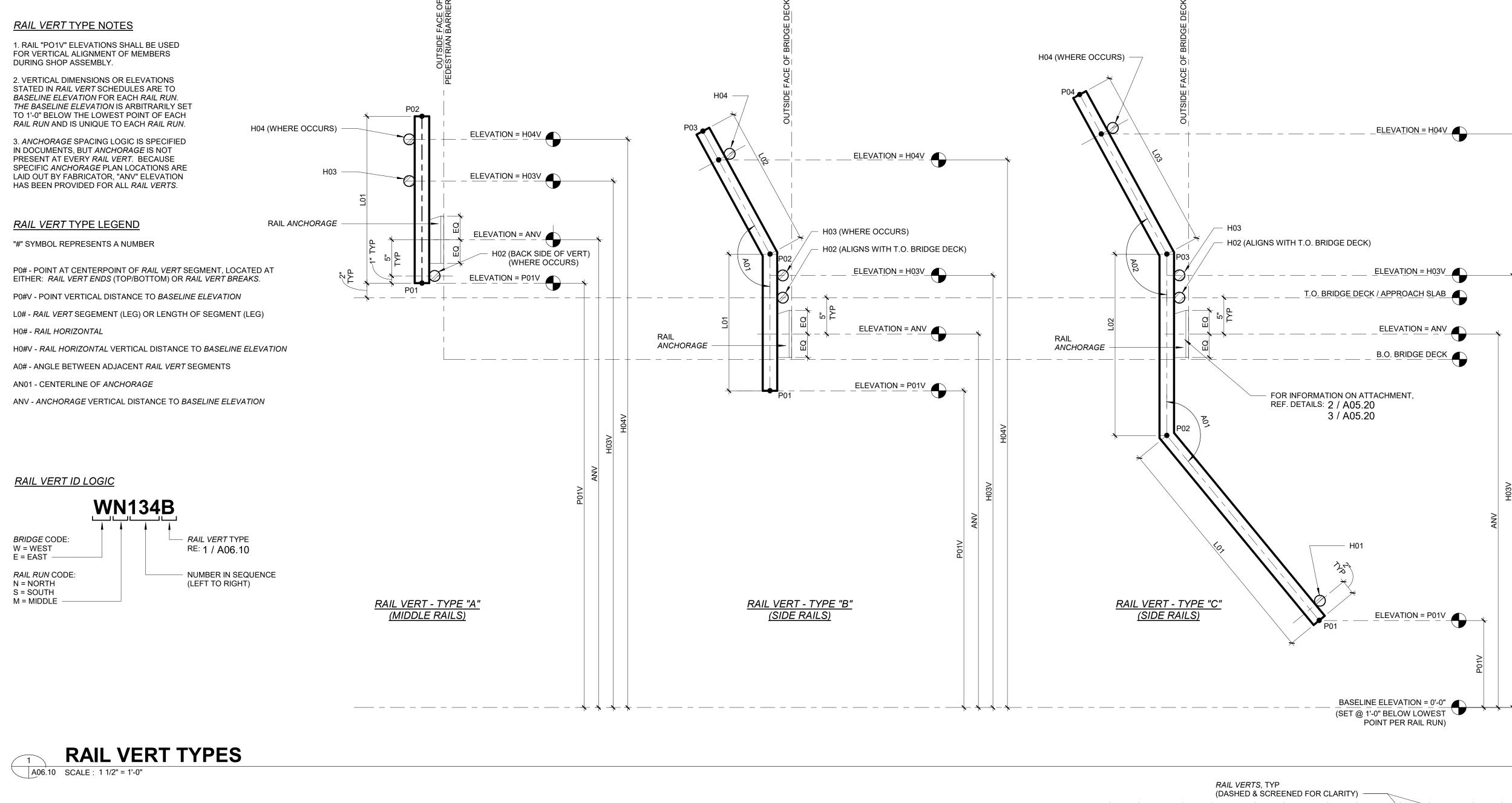
SHEET NUMBER

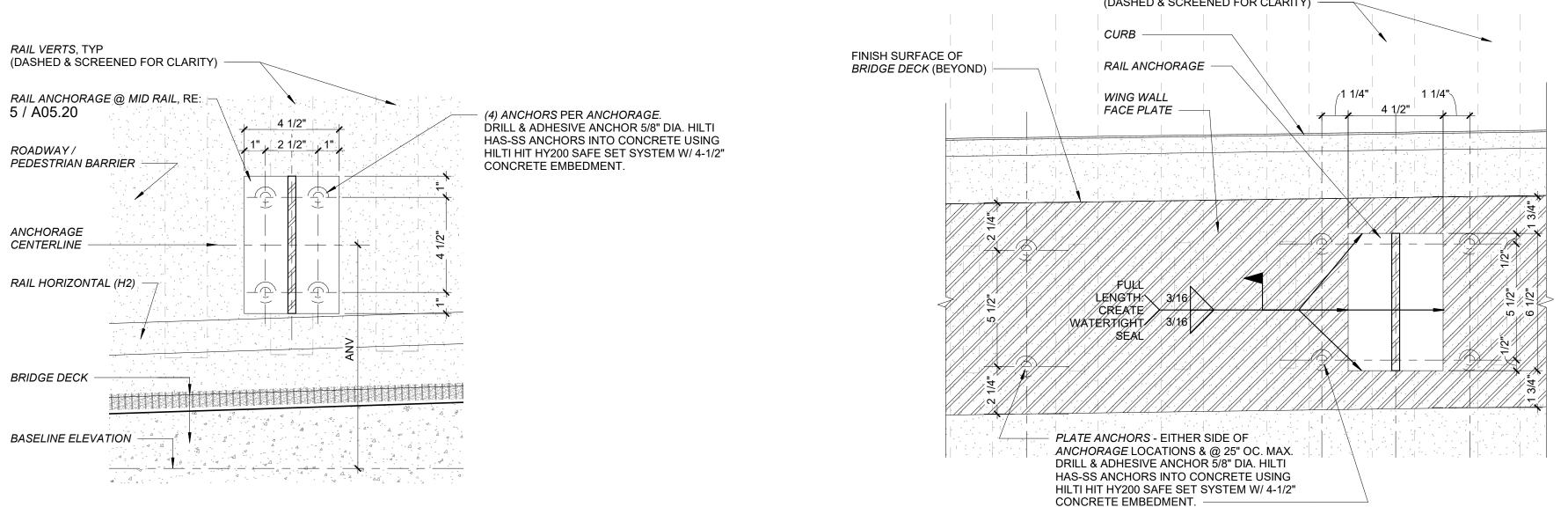
A05.30

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LIGHT MOUNT ELEVATION - W BRIDGE - PIER BEAMS

A03.10 A05.30 SCALE: 1 1/2" = 1'-0"





DETAIL ELEVATION - ANCHORAGE AT MID RAIL RUN

A05.21 A06.10 SCALE: 3" = 1'-0"

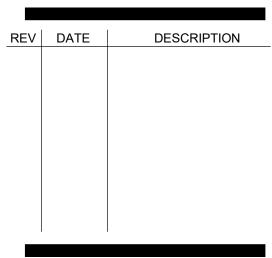
DETAIL ELEVATION - PLATE ANCHORS

A05.21 A06.10 SCALE: 3" = 1'-0"

GBA

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AST BRIDGE PLANS





PROJECT NUMBER 12720.62

2020.09.17

DATE

DESIGNED: NJC

DRAWN: NJC
REVIEWED: CLR
SHEET TITLE

RAIL VERT TYPES

SHEET NUMBER

A06.10

ID	P01V	L01	A01	L02	A02	L03	RTI LTOT	ANV	H03V	H04\
EN1B	4'-0 7/8"	1'-2 1/4"	162.021°	3'-2 7/8"			4'-5 1/8"	4'-4 1/8"	5'-1 5/8"	7'-1 1
EN2B EN3B EN4B	4'-0 7/8" 4'-0 7/8" 4'-0 3/4"	1'-3" 1'-3 7/8" 1'-4 5/8"	161.971° 161.919° 161.866°	3'-2 1/2" 3'-2 1/8" 3'-1 7/8"			4'-5 1/2" 4'-6" 4'-6 1/2"	4'-4 1/4" 4'-4 3/8" 4'-4 1/2"	5'-2 1/8" 5'-2 5/8" 5'-3 1/8"	7'-1 5 7'-2 1 7'-2 5
EN5B EN6B	4'-0 5/8" 4'-0 1/2"	1'-5 1/2" 1'-6 3/8"	161.810° 161.752°	3'-1 1/2" 3'-1 1/8"			4-6 1/2 4'-7" 4'-7 1/2"	4-4 1/2 4'-4 3/4" 4'-4 7/8"	5'-3 5/8" 5'-4"	7'-3 1. 7'-3 1.
EN7B EN8B	4'-0 3/8" 4'-0 1/8"	1'-7 1/4" 1'-8 1/8"	161.692° 161.631°	3'-0 7/8" 3'-0 1/2"			4'-8 1/8" 4'-8 5/8"	4'-5" 4'-5 1/8"	5'-4 1/2" 5'-5"	7'- 7'-4 1
EN9B EN10B EN11B	4'-0" 3'-11 3/4" 3'-11 1/2"	1'-9" 1'-10" 1'-11"	161.567° 161.500° 161.431°	3'-0 1/8" 2'-11 7/8" 2'-11 1/2"			4'-9 1/4" 4'-9 7/8" 4'-10 1/2"	4'-5 3/8" 4'-5 1/2" 4'-5 5/8"	5'-5 1/2" 5'-6" 5'-6 3/8"	7'-5 3 7'-5 7
EN12B EN13B	3'-11 1/4" 3'-11"	2'-0" 2'-1"	161.360° 161.286°	2'-11 1/8" 2'-10 7/8"			4'-11 1/8" 4'-11 3/4"	4'-5 7/8" 4'-6"	5'-6 7/8" 5'-7 3/8"	7'-6 3 7'-6 7
EN14B EN15B EN16B	3'-10 5/8" 3'-10 1/4"	2'-2" 2'-3 1/8"	161.209° 161.130° 161.049°	2'-10 1/2" 2'-10 1/8" 2'-9 3/4"			5'-0 1/2" 5'-1 1/4"	4'-6 1/8" 4'-6 1/4"	5'-7 7/8" 5'-8 1/4"	7'-7 1. 7'-7 3. 7'-8 1.
EN16B EN17B EN18B	3'-10" 3'-9 5/8" 3'-9 1/8"	2'-4 1/8" 2'-5 1/4" 2'-6 3/8"	161.049° 160.964° 160.876°	2'-9 3/4" 2'-9 1/2" 2'-9 1/8"			5'-2" 5'-2 3/4" 5'-3 1/2"	4'-6 1/2" 4'-6 5/8" 4'-6 3/4"	5'-8 3/4" 5'-9 1/4" 5'-9 5/8"	7'-8 1. 7'-8 5. 7'-9 1.
EN19B EN20B	3'-8 3/4" 3'-8 1/4"	2'-7 1/2" 2'-8 3/4"	160.786° 160.692°	2'-8 3/4" 2'-8 3/8"			5'-4 1/4" 5'-5 1/8"	4'-6 7/8" 4'-7 1/8"	5'-10 1/8" 5'-10 5/8"	7'-9 5 <i>i</i> 7'-1
EN21B EN22B EN23B	3'-7 7/8" 3'-7 3/8" 3'-6 7/8"	2'-9 7/8" 2'-11 1/8" 3'-0 3/8"	160.594° 160.494° 160.390°	2'-8" 2'-7 3/4" 2'-7 3/8"			5'-6" 5'-6 7/8" 5'-7 3/4"	4'-7 1/4" 4'-7 3/8" 4'-7 1/2"	5'-11" 5'-11 1/2" 6'-0"	7'-10 1/ 7'-1 7'-11 3/
EN24B EN25B	3'-6 1/4" 3'-5 3/4"	3'-1 5/8" 3'-3"	160.282° 160.170°	2'-7" 2'-6 5/8"			5'-8 5/8" 5'-9 5/8"	4'-7 3/4" 4'-7 7/8"	6'-0 3/8" 6'-0 7/8"	7'-11 7/ 8'-0 1/
EN26B EN27B	3'-5 1/8" 3'-4 1/2"	3'-4 1/4" 3'-5 5/8"	160.054° 159.935°	2'-6 1/4" 2'-5 7/8"			5'-10 1/2" 5'-11 1/2"	4'-8" 4'-8 1/8"	6'-1 1/4" 6'-1 3/4"	8'-0 3 8'-1 1
EN28B EN29B EN30B	3'-3 7/8" 3'-3 1/4" 3'-2 1/2"	3'-7" 3'-8 3/8" 3'-9 3/4"	159.811° 159.682° 159.550°	2'-5 1/2" 2'-5 1/4" 2'-4 7/8"			6'-0 1/2" 6'-1 1/2" 6'-2 5/8"	4'-8 3/8" 4'-8 1/2" 4'-8 5/8"	6'-2 1/8" 6'-2 5/8" 6'-3 1/8"	8'-1 5 8'-2 1 8'-2 1
EN31B EN32B	3'-1 7/8" 3'-1 1/8"	3'-11 1/8" 4'-0 5/8"	159.412° 159.268°	2'-4 1/2" 2'-4 1/8"			6'-3 5/8" 6'-4 3/4"	4'-8 7/8" 4'-9"	6'-3 1/2" 6'-4"	8'-3 3
EN33B EN34B EN35B	3'-0 3/8" 2'-11 5/8" 2'-10 3/4"	4'-2 1/8" 4'-3 5/8" 4'-5 1/8"	159.119° 158.967° 158.807°	2'-3 3/4" 2'-3 3/8" 2'-3"			6'-5 7/8" 6'-7" 6'-8 1/8"	4'-9 1/8" 4'-9 1/4" 4'-9 1/2"	6'-4 3/8" 6'-4 3/4" 6'-5 1/4"	8'-3 3 ₈ '-4 1 ₈ '-4 5
EN36B EN37B	2'-10" 2'-10" 2'-9 1/8"	4'-6 3/4" 4'-8 1/4"	158.642° 158.471°	2'-2 5/8" 2'-2 1/4"			6'-9 3/8" 6'-10 1/2"	4'-9 5/8" 4'-9 3/4"	6'-5 5/8" 6'-6 1/8"	8'-5 1 8'-5 1
EN38B EN39B EN40B	2'-8 1/4" 2'-7 3/8"	4'-9 7/8" 4'-11 1/2"	158.292° 158.106°	2'-1 7/8" 2'-1 1/2" 2'-1 1/8"			6'-11 3/4" 7'-1"	4'-9 7/8" 4'-10 1/8"	6'-6 1/2" 6'-7"	8'-6 3
EN40B EN41B EN42B	2'-6 1/2" 2'-5 1/2" 2'-4 5/8"	5'-1 1/8" 5'-2 3/4" 5'-4 1/2"	157.914° 157.715° 157.507°	2'-0 3/4" 2'-0 3/8"			7'-2 1/4" 7'-3 5/8" 7'-4 7/8"	4'-10 1/4" 4'-10 3/8" 4'-10 1/2"	6'-7 3/8" 6'-7 3/4" 6'-8 1/4"	8'-6 3/ 8'-7 1/ 8'-7 5/
EN43B EN44B	2'-3 5/8" 2'-2 5/8"	5'-6 1/8" 5'-7 7/8"	157.291° 157.067°	2'-0" 1'-11 5/8"			7'-6 1/4" 7'-7 5/8"	4'-10 3/4" 4'-10 7/8"	6'-8 5/8" 6'-9"	8'-8 1.
EN45B EN46B EN47C	2'-1 1/2" 2'-0 1/2" 1'-0"	5'-9 5/8" 5'-11 1/2" 1'-9 1/8"	156.834° 156.590° 126.351°	1'-11 1/4" 1'-10 7/8" 6'-0"	156.481°	1'-10 5/8"	7'-9" 7'-10 3/8" 9'-7 3/4"	4'-11" 4'-11 1/8" 4'-11 3/8"	6'-9 1/2" 6'-9 7/8" 6'-10 1/4"	8'-8 7/ 8'-9 1/ 8'-9 3/
EN48C EN49C	1'-0 1/8" 1'-0 1/4"	1'-9 1/2" 1'-9 7/8"	127.737° 129.054°	5'-11 3/4" 5'-11 1/2"	156.463° 156.447°	1'-10 1/2" 1'-10 3/8"	9'-7 3/4" 9'-7 3/4"	4'-11 1/2" 4'-11 5/8"	6'-10 5/8" 6'-11 1/8"	8'-10 1 8'-10 1
EN50C EN51C	1'-0 3/8" 1'-0 1/2"	1'-10 1/4" 1'-10 3/4"	130.302° 131.483°	5'-11 1/4" 5'-11"	156.429° 156.411°	1'-10 1/4" 1'-10"	9'-7 3/4" 9'-7 5/8"	4'-11 3/4" 4'-11 7/8"	6'-11 1/2" 6'-11 7/8"	8'-10 7 8'-11 3
EN52C EN53C EN54C	1'-0 5/8" 1'-0 3/4" 1'-0 7/8"	1'-11 1/8" 1'-11 1/2" 1'-11 7/8"	132.600° 133.662° 134.667°	5'-10 3/4" 5'-10 1/2" 5'-10 1/4"	156.393° 156.375° 156.357°	1'-9 7/8" 1'-9 3/4" 1'-9 5/8"	9'-7 5/8" 9'-7 3/4" 9'-7 3/4"	5'-0 1/8" 5'-0 1/4" 5'-0 3/8"	7'-0 1/4" 7'-0 3/4" 7'-1 1/8"	8'-11 3 9'-0 1 9'-0 1
EN55C EN56C	1'-1" 1'-1 1/8"	2'-0 1/4" 2'-0 3/4"	135.621° 136.524°	5'-10" 5'-9 7/8"	156.338° 156.319°	1'-9 3/8" 1'-9 1/4"	9'-7 3/4" 9'-7 3/4"	5'-0 1/2" 5'-0 5/8"	7'-1 1/2" 7'-1 7/8"	9'-0 7 9'-1 3
EN57C EN58C EN59C	1'-1 1/4" 1'-1 3/8" 1'-1 1/2"	2'-1 1/8" 2'-1 1/2" 2'-1 7/8"	137.381° 138.195° 138.969°	5'-9 5/8" 5'-9 1/2" 5'-9 1/4"	156.301° 156.282° 156.263°	1'-9 1/8" 1'-9" 1'-8 3/4"	9'-7 7/8" 9'-7 7/8" 9'-8"	5'-0 3/4" 5'-1" 5'-1 1/8"	7'-2 1/4" 7'-2 5/8" 7'-3"	9'-1 3 9'-2 1 9'-2 1
EN60C EN61C	1'-1 5/8" 1'-1 3/4"	2'-2 1/4" 2'-2 5/8"	139.700° 140.399°	5'-9 1/8" 5'-9"	156.244° 156.223°	1'-8 5/8" 1'-8 1/2"	9'-8" 9'-8 1/8"	5'-1 1/4" 5'-1 3/8"	7'-3 1/2" 7'-3 7/8"	9'-2 7 9'-3 1
EN62C EN63C	1'-1 7/8" 1'-2" 1'-2 1/8"	2'-3" 2'-3 3/8"	141.060° 141.691° 142.287°	5'-8 3/4" 5'-8 5/8"	156.203° 156.182°	1'-8 3/8" 1'-8 1/8"	9'-8 1/8" 9'-8 1/4"	5'-1 1/2" 5'-1 5/8"	7'-4 1/4" 7'-4 5/8" 7'-5"	9'-3 5 9'- 9'-4 1
EN64C EN65C EN66C	1'-2 1/4" 1'-2 3/8"	2'-3 3/4" 2'-4 1/8" 2'-4 1/2"	142.856° 143.397°	5'-8 1/2" 5'-8 3/8" 5'-8 1/4"	156.164° 156.143° 156.122°	1'-8" 1'-7 7/8" 1'-7 3/4"	9'-8 3/8" 9'-8 1/2" 9'-8 1/2"	5'-1 7/8" 5'-2" 5'-2 1/8"	7'-5 3/8" 7'-5 3/4"	9'-4 7 9'-5 1
EN67C EN68C	1'-2 1/2" 1'-2 5/8"	2'-4 7/8" 2'-5 1/4"	143.911° 144.399°	5'-8 1/8" 5'-8 1/8"	156.102° 156.079°	1'-7 5/8" 1'-7 3/8"	9'-8 5/8" 9'-8 3/4"	5'-2 1/4" 5'-2 3/8"	7'-6 1/8" 7'-6 1/2"	9'-5 5 9'-
EN69C EN70C EN71C	1'-2 3/4" 1'-2 7/8" 1'-3"	2'-5 1/2" 2'-5 7/8" 2'-6 1/4"	144.864° 145.308° 145.729°	5'-8" 5'-7 7/8" 5'-7 7/8"	156.058° 156.037° 156.014°	1'-7 1/4" 1'-7 1/8" 1'-7"	9'-8 7/8" 9'-9" 9'-9"	5'-2 1/2" 5'-2 3/4" 5'-2 7/8"	7'-6 7/8" 7'-7 1/4" 7'-7 5/8"	9'-6 3 9'-6 3 9'-7 1
EN72C EN73C	1'-3 1/8" 1'-3 1/4"	2'-6 1/2" 2'-6 3/4"	146.127° 146.508°	5'-7 3/4" 5'-7 3/4"	155.993° 155.970°	1'-6 7/8" 1'-6 3/4"	9'-9 1/8" 9'-9 1/4"	5'-3" 5'-3 1/8"	7'-8" 7'-8 3/8"	9'-7 1. 9'-7 7.
EN74C EN75C	1'-3 3/8" 1'-3 1/2" 1'-3 5/8"	2'-7 1/8" 2'-7 3/8" 2'-7 5/8"	146.870° 147.215° 147.541°	5'-7 3/4" 5'-7 5/8"	155.947° 155.925° 155.902°	1'-6 5/8" 1'-6 3/8" 1'-6 1/4"	9'-9 3/8" 9'-9 1/2" 9'-9 5/8"	5'-3 1/4" 5'-3 3/8" 5'-3 1/2"	7'-8 3/4" 7'-9 1/8" 7'-9 3/8"	9'-8 1 9'-8 1 9'-8 7
EN76C EN77C EN78C	1'-3 3/4" 1'-3 7/8"	2'-8" 2'-8 1/4"	147.851° 148.147°	5'-7 5/8" 5'-7 5/8" 5'-7 5/8"	155.879° 155.855°	1'-6 1/8" 1'-6"	9'-9 3/4" 9'-9 7/8"	5'-3 3/4" 5'-3 7/8"	7'-9 3/4" 7'-10 1/8"	9'-9 1 9'-9 5
EN79C EN80C	1'-4" 1'-4 1/8"	2'-8 1/2" 2'-8 3/4"	148.427° 148.692°	5'-7 5/8" 5'-7 5/8"	155.830° 155.807°	1'-5 7/8" 1'-5 3/4"	9'-10" 9'-10 1/8"	5'-4" 5'-4 1/8"	7'-10 1/2" 7'-10 7/8"	9'-1 9'-10 3
EN81C EN82C EN83C	1'-4 1/4" 1'-4 3/8" 1'-4 1/2"	2'-9" 2'-9 1/8" 2'-9 3/8"	148.943° 149.180° 149.406°	5'-7 5/8" 5'-7 3/4" 5'-7 3/4"	155.782° 155.757° 155.732°	1'-5 5/8" 1'-5 1/2" 1'-5 1/4"	9'-10 1/4" 9'-10 3/8" 9'-10 1/2"	5'-4 1/4" 5'-4 3/8" 5'-4 5/8"	7'-11 1/4" 7'-11 1/2" 7'-11 7/8"	9'-10 3 9'-11 1 9'-11 3
EN84C EN85C	1'-4 5/8" 1'-4 5/8"	2'-9 5/8" 2'-9 7/8"	149.618° 149.817°	5'-7 3/4" 5'-7 7/8"	155.706° 155.683°	1'-5 1/8"	9'-10 5/8" 9'-10 3/4"	5'-4 3/4" 5'-4 7/8"	8'-0 1/4" 8'-0 5/8"	9'-11 3 10'-0 1
EN86C EN87C EN88C	1'-4 3/4" 1'-4 7/8" 1'-5"	2'-10" 2'-10 1/4" 2'-10 3/8"	150.006° 150.183° 150.349°	5'-8" 5'-8" 5'-8 1/8"	155.657° 155.629° 155.604°	1'-4 7/8" 1'-4 3/4" 1'-4 5/8"	9'-10 7/8" 9'-11" 9'-11 1/8"	5'-5" 5'-5 1/8" 5'-5 1/4"	8'-1" 8'-1 1/4" 8'-1 5/8"	10'-0 1, 10'-0 7, 10'-1 1,
EN89C EN90C	1'-5 1/8" 1'-5 1/4"	2'-10 5/8" 2'-10 5/8"	150.549 150.503° 150.648°	5'-8 1/4" 5'-8 1/4"	155.504 155.577° 155.550°	1'-4 1/2" 1'-4 3/8"	9'-11 1/4" 9'-11 3/8"	5'-5 1/2" 5'-5 5/8"	8'-2" 8'-2 1/4"	10'-1 1, 10'-1 1, 10'-1 7,
EN91C EN92C	1'-5 3/8" 1'-5 1/2"	2'-10 7/8" 2'-11"	150.782° 150.907°	5'-8 3/8" 5'-8 1/2"	155.523° 155.494°	1'-4 1/4" 1'-4 1/8"	9'-11 1/2" 9'-11 5/8"	5'-5 3/4" 5'-5 7/8"	8'-2 5/8" 8'-3"	10'-2 1 10'-2 1
EN93C EN94C EN95C	1'-5 5/8" 1'-5 3/4" 1'-5 7/8"	2'-11 1/8" 2'-11 1/4" 2'-11 1/4"	151.021° 151.126° 151.222°	5'-8 5/8" 5'-8 7/8" 5'-9"	155.468° 155.439° 155.409°	1'-4" 1'-3 7/8" 1'-3 3/4"	9'-11 3/4" 9'-11 7/8" 10'-0"	5'-6" 5'-6 1/8" 5'-6 3/8"	8'-3 1/4" 8'-3 5/8" 8'-4"	10'-2 7 10'-3 1 10'-3 1
EN96C EN97C	1'-6" 1'-6 1/8"	2'-11 3/8" 2'-11 1/2"	151.308° 151.385°	5'-9 1/8" 5'-9 1/4"	155.381°	1'-3 5/8" 1'-3 1/2"	10'-0 1/8"	5'-6 1/2" 5'-6 5/8"	8'-4 1/4"	10'-3 7 10'-4 1
EN98C EN99C EN100C	1'-6 1/4" 1'-6 3/8" 1'-6 1/2"	2'-11 5/8" 2'-11 5/8" 2'-11 3/4"	151.454° 151.513° 151.565°	5'-9 1/2" 5'-9 5/8" 5'-9 7/8"	155.323° 155.293° 155.261°	1'-3 3/8" 1'-3 1/4" 1'-3"	10'-0 3/8" 10'-0 1/2" 10'-0 5/8"	5'-6 3/4" 5'-6 7/8" 5'-7"	8'-5" 8'-5 1/4" 8'-5 5/8"	10'-4 1, 10'-4 7, 10'-5 1,
EN101C EN102C	1'-6 5/8" 1'-6 3/4"	2'-11 3/4" 2'-11 3/4"	151.606° 151.640°	5'-10 1/8" 5'-10 1/4"	155.233° 155.202°		10'-0 3/4" 10'-0 7/8"	5'-7 1/4" 5'-7 3/8"	8'-5 7/8" 8'-6 1/4"	10'-5 1 10'-5 7
EN103C EN104C EN105C	1'-6 7/8" 1'-7" 1'-7 1/8"	2'-11 7/8" 2'-11 7/8" 2'-11 7/8"	151.665° 151.682° 151.690°	5'-10 1/2" 5'-10 3/4" 5'-11"	155.169° 155.140° 155.107°	1'-2 5/8" 1'-2 5/8" 1'-2 1/2"	10'-1" 10'-1 1/8" 10'-1 1/4"	5'-7 3/8" 5'-7 1/2" 5'-7 5/8"	8'-6 1/2" 8'-6 7/8" 8'-7 1/8"	10'-6 1 10'-6 1
EN106C EN107C	1'-7 1/4" 1'-7 3/8"	2'-11 7/8" 2'-11 7/8"	151.690° 151.681°	5'-11 1/4" 5'-11 1/2"		1'-2 3/8"	10'-1 3/8" 10'-1 1/2"	5'-7 3/4" 5'-7 7/8"	8'-7 1/2" 8'-7 3/4"	
EN108C EN109C	1'-7 1/2" 1'-7 5/8"	2'-11 7/8" 2'-11 3/4"	151.665° 151.639°	5'-11 3/4" 6'-0"	155.008° 154.976°	1'-2 1/8" 1'-2"	10'-1 5/8" 10'-1 3/4"	5'-8" 5'-8 1/8"	8'-8 1/8" 8'-8 3/8"	
EN110C EN111C EN112C	1'-7 3/4" 1'-7 7/8" 1'-8"	2'-11 3/4" 2'-11 3/4" 2'-11 5/8"	151.605° 151.563° 151.512°	6'-0 3/8" 6'-0 5/8" 6'-0 7/8"	154.940° 154.905° 154.871°	1'-1 3/4"	10'-1 7/8" 10'-2" 10'-2 1/8"	5'-8 1/8" 5'-8 1/4" 5'-8 3/8"	8'-8 3/4" 8'-9" 8'-9 1/4"	
EN113C EN114C	1'-8 1/8" 1'-8 1/4"	2'-11 5/8" 2'-11 1/2"	151.451° 151.383°	6'-1 1/4" 6'-1 5/8"	154.837° 154.802°	1'-1 1/2" 1'-1 3/8"	10'-2 1/4" 10'-2 3/8"	5'-8 1/2" 5'-8 5/8"	8'-9 5/8" 8'-9 7/8"	
EN115C EN116C EN117C	1'-8 3/8" 1'-8 1/2" 1'-8 5/8"	2'-11 3/8" 2'-11 1/4" 2'-11 1/4"	151.306° 151.220° 151.123°	6'-1 7/8" 6'-2 1/4" 6'-2 5/8"	154.765° 154.729° 154.691°	1'-1 1/8"	10'-2 1/2" 10'-2 5/8" 10'-2 7/8"	5'-8 3/4" 5'-8 3/4" 5'-8 7/8"	8'-10 1/4" 8'-10 1/2" 8'-10 3/4"	
EN118C EN119C	1'-8 3/4" 1'-8 7/8"	2'-11 1/8" 2'-11"	151.018° 150.903°	6'-3" 6'-3 3/8"	154.654° 154.618°	1'-0 7/8" 1'-0 3/4"	10'-3" 10'-3 1/8"	5'-9" 5'-9 1/8"	8'-11 1/8" 8'-11 3/8"	
EN120C EN121C EN122C	1'-9" 1'-9 1/8" 1'-9 1/4"	2'-10 7/8" 2'-10 5/8" 2'-10 1/2"	150.780° 150.644° 150.500°	6'-3 3/4" 6'-4 1/8" 6'-4 1/2"	154.580° 154.542° 154.501°		10'-3 1/4" 10'-3 3/8" 10'-3 1/2"	5'-9 1/4" 5'-9 3/8" 5'-9 1/2"	8'-11 5/8" 8'-11 7/8" 9'-0 1/4"	
EN123C EN124C	1'-9 3/8" 1'-9 1/2"	2'-10 3/8" 2'-10 1/8"	150.346° 150.181°	6'-4 7/8" 6'-5 1/4"	154.462° 154.422°	1'-0 3/8" 1'-0 1/4"	10'-3 5/8" 10'-3 3/4"	5'-9 1/2" 5'-9 5/8"	9'-0 1/2" 9'-0 3/4"	
EN125C EN126C EN127C	1'-9 5/8" 1'-9 3/4" 1'-9 7/8"	2'-10" 2'-9 3/4" 2'-9 5/8"	150.004° 149.815° 149.616°	6'-5 3/4" 6'-6 1/8" 6'-6 5/8"	154.383° 154.342° 154.301°	1'-0"	10'-3 7/8" 10'-4" 10'-4 1/8"	5'-9 3/4" 5'-9 7/8" 5'-10"	9'-1" 9'-1 3/8" 9'-1 5/8"	
EN127C EN128C EN129C	1'-9 7/8" 1'-10" 1'-10 1/8"	2'-9 5/8" 2'-9 3/8" 2'-9 1/8"	149.616° 149.405° 149.180°	6'-6'5/8" 6'-7" 6'-7 1/2"	154.301° 154.259° 154.217°	0'-11 3/4" 0'-11 3/4"	10'-4 1/4"	5'-10" 5'-10 1/8" 5'-10 1/8"	9'-1 5/8" 9'-1 7/8" 9'-2 1/8"	
EN130C EN131C	1'-10 1/4" 1'-10 3/8"	2'-9" 2'-8 3/4"	148.943° 148.692°	6'-8" 6'-8 1/2"	154.174° 154.129°	0'-11 5/8" 0'-11 1/2"	10'-4 1/2" 10'-4 5/8"	5'-10 1/4" 5'-10 3/8"	9'-2 3/8" 9'-2 5/8"	
EN132C EN133C EN134C	1'-10 1/2" 1'-10 5/8" 1'-10 3/4"	2'-8 1/2" 2'-8 1/4" 2'-8"	148.428° 148.150° 147.856°	6'-9" 6'-9 3/8" 6'-10"	154.087° 154.040° 153.995°	0'-11 1/4"	10'-4 3/4" 10'-4 7/8" 10'-5"	5'-10 1/2" 5'-10 5/8" 5'-10 3/4"	9'-3" 9'-3 1/4" 9'-3 1/2"	
EN135C EN136C	1'-10 7/8" 1'-11"	2'-7 5/8" 2'-7 3/8"	147.546° 147.221°	6'-10 1/2" 6'-11"	153.950° 153.905°	0'-11 1/8" 0'-11"	10'-5 1/4" 10'-5 3/8"	5'-10 7/8" 5'-10 7/8"	9'-3 3/4" 9'-4"	
EN137C EN138C EN139C	1'-11 1/8" 1'-11 1/4" 1'-11 1/4"	2'-7 1/8" 2'-6 7/8" 2'-6 1/2"	146.879° 146.518° 146.140°	6'-11 1/2" 7'-0" 7'-0 5/8"	153.859° 153.811° 153.767°	0'-10 3/4"	10'-5 1/2" 10'-5 5/8" 10'-5 3/4"	5'-11" 5'-11 1/8" 5'-11 1/4"	9'-4 1/4" 9'-4 1/2" 9'-4 3/4"	
EN140C EN141C	1'-11 3/8" 1'-11 1/2"	2'-6 1/4" 2'-5 7/8"	145.742° 145.323°	7'-1 1/8" 7'-1 3/4"	153.717° 153.668°	0'-10 1/2" 0'-10 1/2"	10'-5 7/8" 10'-6 1/8"	5'-11 3/8" 5'-11 1/2"	9'-5" 9'-5 1/4"	
EN142C EN143C EN144C	1'-11 5/8" 1'-11 3/4" 1'-11 7/8"	2'-5 1/2" 2'-5 1/4" 2'-4 7/8"	144.882° 144.421° 143.936°	7'-2 1/4" 7'-2 7/8" 7'-3 1/2"	153.621° 153.568° 153.519°	0'-10 1/4"	10'-6 1/4" 10'-6 3/8" 10'-6 1/2"	5'-11 1/2" 5'-11 5/8" 5'-11 3/4"	9'-5 1/2" 9'-5 3/4" 9'-6"	
EN145C EN146C	2'-0" 2'-0 1/8"	2'-4 1/2" 2'-4 1/8"	143.425° 142.889°	7'-4 1/8" 7'-4 3/4"	153.467° 153.414°	0'-10 1/8" 0'-10"	10'-6 5/8" 10'-6 7/8"	5'-11 7/8" 6'-0"	9'-6 1/4" 9'-6 1/2"	
EN147C EN148C	2'-0 1/4" 2'-0 3/8" 2'-0 1/2"	2'-3 7/8" 2'-3 1/2" 2'-3 1/8"	142.325° 141.732°	7'-5 3/8" 7'-6"	153.361° 153.309° 153.255°	0'-9 3/4"	10'-7" 10'-7 1/8" 10'-7 3/8"	6'-0 1/8" 6'-0 1/4"	9'-6 3/4" 9'-7"	
EN149C EN150C EN151C	2'-0 1/2" 2'-0 5/8" 2'-0 3/4"	2'-3 1/8" 2'-2 3/4" 2'-2 3/8"	141.108° 140.452° 139.761°	7'-6 5/8" 7'-7 1/4" 7'-7 7/8"	153.255° 153.202° 153.147°	0'-9 3/4" 0'-9 5/8" 0'-9 1/2"	10'-7 3/8" 10'-7 1/2" 10'-7 3/4"	6'-0 1/4" 6'-0 3/8" 6'-0 1/2"	9'-7 1/4" 9'-7 1/2" 9'-7 3/4"	
EN152C EN153C	2'-0 7/8" 2'-1"	2'-1 7/8" 2'-1 1/2"	139.035° 138.271°	7'-8 1/2" 7'-9 1/4"	153.092° 153.035°	0'-9 3/8" 0'-9 3/8"	10'-7 7/8" 10'-8 1/8"	6'-0 5/8" 6'-0 3/4"	9'-7 7/8" 9'-8 1/8"	
EN154C EN155C EN156C	2'-1 1/8" 2'-1 1/4" 2'-1 3/8"	2'-1 1/8" 2'-0 3/4" 2'-0 3/8"	137.465° 136.618° 135.723°	7'-9 7/8" 7'-10 5/8" 7'-11 1/4"	152.979° 152.921° 152.863°	0'-9 1/4" 0'-9 1/8" 0'-9 1/8"	10'-8 1/4" 10'-8 1/2" 10'-8 3/4"	6'-0 7/8" 6'-1" 6'-1"	9'-8 3/8" 9'-8 5/8" 9'-8 7/8"	
EN157C EN158C	2'-1 1/2" 2'-1 5/8"	2'-0" 1'-11 1/2"	134.783° 133.789°	8'-0" 8'-0 3/4"	152.803° 152.744°	0'-9" 0'-8 7/8"	10'-9" 10'-9 1/8"	6'-1 1/8" 6'-1 1/4"	9'-9 1/8" 9'-9 1/4"	
EN159C EN160C	2'-1 3/4" 2'-1 7/8" 2'-2"	1'-11 1/8" 1'-10 3/4" 1'-10 3/8"	132.742° 131.639° 130.473°	8'-1 1/2" 8'-2 1/4" 8'-3"	152.686° 152.626° 152.563°	0'-8 3/4" 0'-8 3/4" 0'-8 5/8"	10'-9 3/8" 10'-9 5/8" 10'-9 7/8"	6'-1 3/8" 6'-1 1/2" 6'-1 5/8"	9'-9 1/2" 9'-9 3/4" 9'-10"	
EN161C EN162C EN163C	2'-2" 2'-2 1/8" 2'-2 1/4"	1'-10 3/8" 1'-10" 1'-9 1/2"	130.473° 129.244° 127.947°	8'-3" 8'-3 3/4" 8'-4 1/2"	152.563° 152.501° 152.436°	0'-8 5/8" 0'-8 1/2" 0'-8 1/2"	10'-9 7/8" 10'-10 1/4" 10'-10 1/2"	6'-1 5/8" 6'-1 5/8" 6'-1 3/4"	9'-10" 9'-10 1/8" 9'-10 3/8"	
EN164C EN165C	2'-2 1/4" 2'-2 1/4"	1'-9 5/8" 1'-9 7/8"	128.010° 128.983°	8'-4 5/8" 8'-4 3/8"	152.372° 152.309°	0'-8 3/8" 0'-8 1/4"	10'-10 5/8" 10'-10 5/8"	6'-1 3/4" 6'-1 7/8"	9'-10 5/8" 9'-10 3/4"	
EN166C	2'-2 1/4"	1'-10 1/8"	129.923°	8'-4 1/4"	152.240°	0'-8 1/4"	10'-10 5/8"	6'-1 7/8"	9'-11"	

	EA	ST	BR	IDG	E -	NO	RTI	1R	UN	
<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u>A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	<u>ANV</u>	<u>H03V</u>	<u>H04</u>
EN169C	2'-2 1/4"	1'-11 1/8"	132.556°	8'-3 5/8"	152.043°	0'-8"	10'-10 5/8"	6'-2 1/8"	9'-11 5/8"	
EN170C	2'-2 1/4"	1'-11 3/8"	133.375°	8'-3 3/8"	151.974°	0'-7 7/8"	10'-10 5/8"	6'-2 1/8"	9'-11 7/8"	
EN171C EN172C	2'-2 1/4" 2'-2 1/4"	1'-11 3/4" 2'-0"	134.164° 134.928°	8'-3 1/8" 8'-3"	151.902° 151.836°	0'-7 7/8"	10'-10 5/8" 10'-10 3/4"	6'-2 1/4" 6'-2 1/4"	10'-0" 10'-0 1/4"	
EN173C	2'-2 1/4"	2'-0 3/8"	135.664°	8'-2 3/4"	151.762°	0'-7 5/8"	10'-10 3/4"	6'-2 3/8"	10'-0 3/8"	
EN174C	2'-2 1/4"	2'-0 5/8"	136.376°	8'-2 1/2"	151.694°	0'-7 5/8"	10'-10 3/4"	6'-2 3/8"	10'-0 5/8"	
EN175C	2'-2 1/4"	2'-1"	137.064°	8'-2 3/8"	151.623°	0'-7 1/2"	10'-10 3/4"	6'-2 1/2"	10'-0 7/8"	
EN176C	2'-2 1/4"	2'-1 1/4"	137.728°	8'-2 1/8"	151.549°	0'-7 3/8"	10'-10 7/8"	6'-2 1/2"	10'-1"	
EN177C	2'-2 1/4"	2'-1 5/8"	138.371°	8'-2"	151.477°	0'-7 3/8"	10'-10 7/8"	6'-2 5/8"	10'-1 1/4"	
EN178C	2'-2 1/4"	2'-1 7/8"	138.991°	8'-1 3/4"	151.401°	0'-7 1/4"	10'-11"	6'-2 5/8"	10'-1 3/8"	
EN179C	2'-2 1/4"	2'-2 1/4"	139.594°	8'-1 1/2"	151.326°	0'-7 1/4"	10'-11"	6'-2 3/4"	10'-1 5/8"	
EN180C	2'-2 1/4"	2'-2 1/2"	140.175°	8'-1 3/8"	151.248°	0'-7 1/8"	10'-11"	6'-2 3/4"	10'-1 3/4"	
EN181C EN182C	2'-2 1/4" 2'-2 1/4"	2'-2 7/8" 2'-3 1/8"	140.737° 141.280°	8'-1 1/8" 8'-1"	151.172° 151.092°	0'-7 1/8"	10'-11 1/8" 10'-11 1/8"	6'-2 7/8" 6'-3"	10'-2" 10'-2 1/8"	
EN183C	2'-2 1/4"	2'-3 1/2"	141.807°	8'-0 3/4"	151.014°	0'-6 7/8"	10'-11 1/4"	6'-3"	10'-2 1/4"	
EN184C	2'-2 1/4"	2'-3 3/4"	142.317°	8'-0 5/8"	150.937°	0'-6 7/8"	10'-11 1/4"	6'-3 1/8"	10'-2 1/2"	
EN185C	2'-2 1/4"	2'-4 1/8"	142.811°	8'-0 3/8"	150.857°	0'-6 3/4"	10'-11 3/8"	6'-3 1/8"	10'-2 5/8"	
EN186C EN187C EN188C	2'-2 1/4" 2'-2 1/4"	2'-4 1/2" 2'-4 3/4" 2'-5"	143.288° 143.752°	8'-0 1/4" 8'-0 1/8"	150.774° 150.697°	0'-6 3/4" 0'-6 5/8"	10'-11 3/8" 10'-11 1/2"	6'-3 1/4" 6'-3 1/4"	10'-2 7/8" 10'-3"	
EN189C EN190C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-5 3/8" 2'-5 5/8"	144.201° 144.636° 145.058°	7'-11 7/8" 7'-11 3/4" 7'-11 1/2"	150.606° 150.528° 150.445°	0'-6 5/8" 0'-6 1/2" 0'-6 1/2"	10'-11 1/2" 10'-11 5/8" 10'-11 5/8"	6'-3 3/8" 6'-3 3/8" 6'-3 1/2"	10'-3 1/8" 10'-3 3/8" 10'-3 1/2"	
EN191C	2'-2 1/4"	2'-6"	145.467°	7'-11 3/8"	150.354°	0'-6 3/8"	10'-11 3/4"	6'-3 1/2"	10'-3 3/4"	
EN192C	2'-2 1/4"	2'-6 1/4"	145.863°	7'-11 1/4"	150.276°	0'-6 3/8"	10'-11 7/8"	6'-3 5/8"	10'-3 7/8"	
EN193C	2'-2 1/4"	2'-6 5/8"	146.249°	7'-11"	150.188°	0'-6 1/4"	10'-11 7/8"	6'-3 5/8"	10'-4"	
EN194C EN195C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-6 7/8" 2'-7 1/4"	146.622° 146.985°	7'-10 7/8" 7'-10 3/4"	150.097° 150.008°	0'-6 1/4" 0'-6 1/8"	11'-0" 11'-0"	6'-3 3/4" 6'-3 3/4"	10'-4 1/8" 10'-4 3/8"	
EN196C	2'-2 1/4"	2'-7 1/2"	147.336°	7'-10 1/2"	149.920°	0'-6 1/8"	11'-0 1/8"	6'-3 7/8"	10'-4 1/2"	
EN197C	2'-2 1/4"	2'-7 3/4"	147.678°	7'-10 3/8"	149.829°	0'-6"	11'-0 1/8"	6'-3 7/8"	10'-4 5/8"	
EN198C	2'-2 1/4"	2'-8 1/8"	148.009°	7'-10 1/4"	149.739°	0'-6"	11'-0 1/4"	6'-4"	10'-4 7/8"	
EN199C	2'-2 1/4"	2'-8 3/8"	148.331°	7'-10"	149.652°	0'-5 7/8"	11'-0 3/8"	6'-4"	10'-5"	
EN200C	2'-2 1/4"	2'-8 5/8"	148.644°	7'-9 7/8"	149.561°	0'-5 7/8"	11'-0 3/8"	6'-4 1/8"	10'-5 1/8"	
EN201C	2'-2 1/4"	2'-9"	148.948°	7'-9 3/4"	149.460°	0'-5 3/4"	11'-0 1/2"	6'-4 1/8"	10'-5 1/4"	
EN202C	2'-2 1/4"	2'-9 1/4"	149.243°	7'-9 5/8"	149.373°	0'-5 3/4"	11'-0 1/2"	6'-4 1/4"	10'-5 3/8"	
EN203C	2'-2 1/4"	2'-9 1/2"	149.530°	7'-9 3/8"	149.276°	0'-5 5/8"	11'-0 5/8"	6'-4 1/4"	10'-5 5/8"	
EN204C	2'-2 1/4"	2'-9 3/4"	149.809°	7'-9 1/4"	149.181°	0'-5 5/8"	11'-0 3/4"	6'-4 3/8"	10'-5 3/4"	
EN205C	2'-2 1/4"	2'-10 1/8"	150.080°	7'-9 1/8"	149.089°	0'-5 1/2"	11'-0 3/4"	6'-4 3/8"	10'-5 7/8"	
EN206C	2'-2 1/4"	2'-10 3/8"	150.344°	7'-9"	148.993°	0'-5 1/2"	11'-0 7/8"	6'-4 1/2"	10'-6"	
EN207C	2'-2 1/4"	2'-10 5/8"	150.600°	7'-8 7/8"	148.886°	0'-5 1/2"	11'-0 7/8"	6'-4 1/2"	10'-6 1/8"	
EN208C	2'-2 1/4"	2'-10 7/8"	150.850°	7'-8 3/4"	148.794°	0'-5 3/8"	11'-1"	6'-4 5/8"	10'-6 1/4"	
EN209C	2'-2 1/4"	2'-11 1/8"	151.093°	7'-8 1/2"	148.692°	0'-5 3/8"	11'-1 1/8"	6'-4 5/8"	10'-6 3/8"	
EN210C	2'-2 1/4"	2'-11 3/8"	151.329°	7'-8 3/8"	148.599°	0'-5 1/4"	11'-1 1/8"	6'-4 3/4"	10'-6 1/2"	
EN211C	2'-2 1/4"	2'-11 3/4"	151.558°	7'-8 1/4"	148.502°	0'-5 1/4"	11'-1 1/4"	6'-4 3/4"	10'-6 5/8"	
EN212C	2'-2 1/4"	3'-0"	151.782°	7'-8 1/8"	148.401°	0'-5 1/4"	11'-1 1/4"	6'-4 7/8"	10'-6 7/8"	
EN213C	2'-2 1/4"	3'-0 1/4"	151.999°	7'-8"	148.296°	0'-5 1/8"	11'-1 3/8"	6'-4 7/8"	10'-7"	
EN214C	2'-2 1/4"	3'-0 1/2"	152.211°	7'-7 7/8"	148.193°	0'-5 1/8"	11'-1 3/8"	6'-5"	10'-7 1/8"	
EN215C	2'-2 1/4"	3'-0 3/4"	152.417°	7'-7 3/4"	148.093°	0'-5"	11'-1 1/2"	6'-5"	10'-7 1/4"	
EN216C	2'-2 1/4"	3'-1"	152.617°	7'-7 5/8"	147.989°	0'-5"	11'-1 5/8"	6'-5 1/8"	10'-7 3/8"	
EN217C	2'-2 1/4"	3'-1 1/4"	152.812°	7'-7 1/2"	147.881°	0'-5"	11'-1 5/8"	6'-5 1/8"	10'-7 1/2"	
EN218C	2'-2 1/4"	3'-1 1/2"	153.003°	7'-7 3/8"	147.783°	0'-4 7/8"	11'-1 3/4"	6'-5 1/4"	10'-7 5/8"	
EN219C	2'-2 1/4"	3'-1 3/4"	153.187°	7'-7 1/4"	147.681°	0'-4 7/8"	11'-1 3/4"	6'-5 1/4"	10'-7 3/4"	
EN220C	2'-2 1/4"	3'-1 7/8"	153.367°	7'-7 1/8"	147.582°	0'-4 3/4"	11'-1 7/8"	6'-5 3/8"	10'-7 3/4"	
EN221C	2'-2 1/4"	3'-2 1/8"	153.543°	7'-7"	147.471°	0'-4 3/4"	11'-1 7/8"	6'-5 3/8"	10'-7 7/8"	
EN222C	2'-2 1/4"	3'-2 3/8"	153.713°	7'-6 7/8"	147.364°	0'-4 3/4"	11'-2"	6'-5 1/2"	10'-8"	
EN223C	2'-2 1/4"	3'-2 5/8"	153.879°	7'-6 3/4"	147.260°	0'-4 5/8"	11'-2"	6'-5 1/2"	10'-8 1/8"	
EN224C	2'-2 1/4"	3'-2 7/8"	154.041°	7'-6 5/8"	147.159°	0'-4 5/8"	11'-2 1/8"	6'-5 1/2"	10'-8 1/4"	
EN225C	2'-2 1/4"	3'-3"	154.198°	7'-6 1/2"	147.054°	0'-4 5/8"	11'-2 1/8"	6'-5 1/2"	10'-8 3/8"	
EN226C	2'-2 1/4"	3'-3 1/4"	154.352°	7'-6 3/8"	146.945°	0'-4 1/2"	11'-2 1/4"	6'-5 5/8"	10'-8 1/2"	
EN227C	2'-2 1/4"	3'-3 1/2"	154.501°	7'-6 1/4"	146.848°	0'-4 1/2"	11'-2 1/4"	6'-5 5/8"	10'-8 5/8"	
EN228C	2'-2 1/4"	3'-3 3/4"	154.647°	7'-6 1/4"	146.738°	0'-4 1/2"	11'-2 3/8"	6'-5 5/8"	10'-8 3/4"	
EN229C	2'-2 1/4"	3'-3 7/8"	154.788°	7'-6 1/8"	146.632°	0'-4 3/8"	11'-2 3/8"	6'-5 5/8"	10'-8 3/4"	
EN230C	2'-2 1/4"	3'-4 1/8"	154.926°	7'-6"	146.530°	0'-4 3/8"	11'-2 1/2"	6'-5 3/4"	10'-8 7/8"	
EN231C	2'-2 1/4"	3'-4 3/8"	155.060°	7'-5 7/8"	146.415°	0'-4 3/8"	11'-2 1/2"	6'-5 3/4"	10'-9"	
EN232C	2'-2 1/4"	3'-4 1/2"	155.190°	7'-5 3/4"	146.313°	0'-4 3/8"	11'-2 5/8"	6'-5 3/4"	10'-9 1/8"	
EN233C	2'-2 1/4"	3'-4 3/4"	155.317°	7'-5 5/8"	146.207°	0'-4 1/4"	11'-2 5/8"	6'-5 3/4"	10'-9 1/4"	
EN234C	2'-2 1/4"	3'-4 7/8"	155.441°	7'-5 5/8"	146.105°	0'-4 1/4"	11'-2 3/4"	6'-5 3/4"	10'-9 1/4"	
EN235C	2'-2 1/4"	3'-5 1/8"	155.561°	7'-5 1/2"	145.999°	0'-4 1/4"	11'-2 3/4"	6'-5 7/8"	10'-9 3/8"	
EN236C	2'-2 1/4"	3'-5 1/4"	155.678°	7'-5 3/8"	145.897°	0'-4 1/8"	11'-2 7/8"	6'-5 7/8"	10'-9 1/2"	
EN237C	2'-2 1/4"	3'-5 1/2"	155.792°	7'-5 1/4"	145.791°	0'-4 1/8"	11'-2 7/8"	6'-5 7/8"	10'-9 5/8"	
EN238C	2'-2 1/4"	3'-5 5/8"	155.903°	7'-5 1/4"	145.680°	0'-4 1/8"	11'-3"	6'-5 7/8"	10'-9 5/8"	
EN239C	2'-2 1/4"	3'-5 7/8"	156.010°	7'-5 1/8"	145.584°	0'-4 1/8"	11'-3"	6'-6"	10'-9 3/4"	
EN240C	2'-2 1/4"	3'-6"	156.115°	7'-5"	145.484°	0'-4"	11'-3 1/8"	6'-6"	10'-9 7/8"	
EN241C	2'-2 1/4"	3'-6 1/8"	156.216°	7'-5"	145.379°	0'-4"	11'-3 1/8"	6'-6"	10'-9 7/8"	
EN242C	2'-2 1/4"	3'-6 3/8"	156.315°	7'-4 7/8"	145.280°	0'-4"	11'-3 1/8"	6'-6"	10'-10"	
EN243C	2'-2 1/4"	3'-6 1/2"	156.412°	7'-4 3/4"	145.176°	0'-4"	11'-3 1/4"	6'-6"	10'-10 1/8"	
EN244C	2'-2 1/4"	3'-6 5/8"	156.505°	7'-4 3/4"	145.088°	0'-3 7/8"	11'-3 1/4"	6'-6 1/8"	10'-10 1/8"	
EN245C	2'-2 1/4"	3'-6 3/4"	156.595°	7'-4 5/8"	144.985°	0'-3 7/8"	11'-3 3/8"	6'-6 1/8"	10'-10 1/4"	
EN246C	2'-2 1/4"	3'-7"	156.683°	7'-4 1/2"	144.889°	0'-3 7/8"	11'-3 3/8"	6'-6 1/8"	10'-10 1/4"	
EN247C	2'-2 1/4"	3'-7 1/8"	156.768°	7'-4 1/2"	144.788°	0'-3 7/8"	11'-3 3/8"	6'-6 1/8"	10'-10 3/8"	
EN248C	2'-2 1/4"	3'-7 1/4"	156.851°	7'-4 3/8"	144.693°	0'-3 7/8"	11'-3 1/2"	6'-6 1/4"	10'-10 1/2"	
EN249C	2'-2 1/4"	3'-7 3/8"	156.932°	7'-4 3/8"	144.604°	0'-3 3/4"	11'-3 1/2"	6'-6 1/4"	10'-10 1/2"	
EN250C	2'-2 1/4"	3'-7 1/2"	157.010°	7'-4 1/4"	144.511°	0'-3 3/4"	11'-3 1/2"	6'-6 1/4"	10'-10 5/8"	
EN251C	2'-2 1/4"	3'-7 5/8"	157.085°	7'-4 1/4"	144.425°	0'-3 3/4"	11'-3 5/8"	6'-6 1/4"	10'-10 5/8"	
EN252C	2'-2 1/4"	3'-7 3/4"	157.158°	7'-4 1/8"	144.334°	0'-3 3/4"	11'-3 5/8"	6'-6 3/8"	10'-10 3/4"	
EN253C	2'-2 1/4"	3'-7 7/8"	157.228°	7'-4"	144.250°	0'-3 3/4"	11'-3 5/8"	6'-6 3/8"	10'-10 3/4"	
EN254C	2'-2 1/4"	3'-8"	157.297°	7'-4"	144.152°	0'-3 5/8"	11'-3 3/4"	6'-6 3/8"	10'-10 7/8"	
EN255C	2'-2 1/4"	3'-8 1/8"	157.363°	7'-3 7/8"	144.070°	0'-3 5/8"	11'-3 3/4"	6'-6 3/8"	10'-10 7/8"	
EN256C	2'-2 1/4"	3'-8 1/4"	157.427°	7'-3 7/8"	143.996°	0'-3 5/8"	11'-3 3/4"	6'-6 3/8"	10'-11"	
EN257C EN258C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	3'-8 3/8" 3'-8 1/2"	157.488° 157.548°	7'-3 7/8" 7'-3 3/4"	143.907° 143.837°	0'-3 5/8" 0'-3 5/8"	11'-3 7/8" 11'-3 7/8"	6'-6 1/2" 6'-6 1/2"	10'-11" 10'-11 1/8"	
EN259C	2'-2 1/4"	3'-8 5/8"	157.605°	7'-3 3/4"	143.751°	0'-3 5/8"	11'-3 7/8"	6'-6 1/2"	10'-11 1/8"	
EN260C	2'-2 1/4"	3'-8 3/4"	157.660°	7'-3 5/8"	143.684°	0'-3 1/2"	11'-3 7/8"	6'-6 1/2"	10'-11 1/8"	
EN261C	2'-2 1/4"	3'-8 7/8"	157.713°	7'-3 5/8"	143.602°	0'-3 1/2"	11'-4"	6'-6 5/8"	10'-11 1/4"	
EN262C	2'-2 1/4"	3'-8 7/8"	157.764°	7'-3 1/2"	143.538°	0'-3 1/2"	11'-4"	6'-6 5/8"	10'-11 1/4"	
EN263C	2'-2 1/4"	3'-9"	157.813°	7'-3 1/2"	143.472°	0'-3 1/2"	11'-4"	6'-6 5/8"	10'-11 1/4"	
EN264C	2'-2 1/4"	3'-9 1/8"	157.860°	7'-3 1/2"	143.401°	0'-3 1/2"	11'-4"	6'-6 5/8"	10'-11 3/8"	
EN265C	2'-2 1/4"	3'-9 1/4"	157.905°	7'-3 3/8"	143.338°	0'-3 1/2"	11'-4 1/8"	6'-6 5/8"	10'-11 3/8"	
EN266C	2'-2 1/4"	3'-9 1/4"	157.948°	7'-3 3/8"	143.284°	0'-3 1/2"	11'-4 1/8"	6'-6 3/4"	10'-11 1/2"	
EN267C	2'-2 1/4"	3'-9 3/8"	157.989°	7'-3 3/8"	143.226°	0'-3 1/2"	11'-4 1/8"	6'-6 3/4"	10'-11 1/2"	
EN268C	2'-2 1/4"	3'-9 3/8"	158.028°	7'-3 1/4"	143.164°	0'-3 3/8"	11'-4 1/8"	6'-6 3/4"	10'-11 1/2"	
EN269C	2'-2 1/4"	3'-9 1/2"	158.065°	7'-3 1/4"	143.110°	0'-3 3/8"	11'-4 1/8"	6'-6 3/4"	10'-11 1/2"	
EN270C	2'-2 1/4"	3'-9 5/8"	158.101°	7'-3 1/4"	143.053°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 5/8"	
EN271C	2'-2 1/4"	3'-9 5/8"	158.134°	7'-3 1/4"	143.017°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 5/8"	
EN272C	2'-2 1/4"	3'-9 3/4"	158.166°	7'-3 1/8"	142.965°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 5/8"	
EN273C	2'-2 1/4"	3'-9 3/4"	158.195°	7'-3 1/8"	142.934°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 5/8"	
EN274C	2'-2 1/4"	3'-9 7/8"	158.223°	7'-3 1/8"	142.887°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 3/4"	
EN275C	2'-2 1/4"	3'-9 7/8"	158.249°	7'-3 1/8"	142.862°	0'-3 3/8"	11'-4 1/4"	6'-7"	10'-11 3/4"	
EN276C	2'-2 1/4"	3'-9 7/8"	158.274°	7'-3"	142.833°	0'-3 3/8"	11'-4 3/8"	6'-7"	10'-11 3/4"	
EN277C	2'-2 1/4"	3'-10"	158.296°	7'-3"	142.800°	0'-3 3/8"	11'-4 3/8"	6'-7"	10'-11 3/4"	
EN278C	2'-2 1/4"	3'-10"	158.317°	7'-3"	142.764°	0'-3 3/8"	11'-4 3/8"	6'-7"	10'-11 3/4"	
EN279C	2'-2 1/4"	3'-10"	158.336°	7'-3"	142.750°	0'-3 3/8"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN280C	2'-2 1/4"	3'-10 1/8"	158.353°	7'-3"	142.720°	0'-3 3/8"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN281C	2'-2 1/4"	3'-10 1/8"	158.368°	7'-3"	142.712°	0'-3 3/8"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN282C	2'-2 1/4"	3'-10 1/8"	158.382°	7'-3"	142.700°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN283C	2'-2 1/4"	3'-10 1/8"	158.394°	7'-2 7/8"	142.698°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN284C	2'-2 1/4"	3'-10 1/4"	158.404°	7'-2 7/8"	142.679°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN285C	2'-2 1/4"	3'-10 1/4"	158.413°	7'-2 7/8"	142.683°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN286C	2'-2 1/4"	3'-10 1/4"	158.419°	7'-2 7/8"	142.671°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN287C EN288C	2'-2 1/4" 2'-2 1/4"	3'-10 1/4" 3'-10 1/4"	158.424° 158.427°	7'-2 7/8" 7'-2 7/8"	142.680° 142.687°	0'-3 1/4" 0'-3 1/4" 0'-3 1/4"	11'-4 3/8" 11'-4 3/8"	6'-7 1/8" 6'-7 1/8"	10'-11 7/8" 10'-11 7/8"	
EN289C	2'-2 1/4"	3'-10 1/4"	158.429°	7'-2 7/8"	142.702°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN290C	2'-2 1/4"	3'-10 1/4"	158.429°	7'-2 7/8"	142.702°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN291C	2'-2 1/4"	3'-10 1/4"	158.427°	7'-2 7/8"	142.723°	0'-3 1/4"	11'-4 3/8"	6'-7 1/8"	10'-11 7/8"	
EN292C EN293C	2'-2 1/4" 2'-2 1/4"	3'-10 1/4" 3'-10 1/4" 3'-10 1/4"	158.424° 158.418° 158.411°	7'-2 7/8" 7'-2 7/8" 7'-2 7/8"	142.742° 142.769°	0'-3 1/4" 0'-3 1/4" 0'-3 3/8"	11'-4 3/8" 11'-4 3/8" 11'-4 3/8"	6'-7 1/8" 6'-7" 6'-7"	10'-11 7/8" 10'-11 7/8" 10'-11 7/8"	
EN294C EN295C EN296C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	3'-10 1/8" 3'-10 1/8"	158.402° 158.392°	7'-2 7/8" 7'-2 7/8" 7'-2 7/8"	142.806° 142.827° 142.856°	0'-3 3/8" 0'-3 3/8"	11'-4 3/8" 11'-4 3/8"	6'-7" 6'-7"	10'-11 7/8" 10'-11 7/8" 10'-11 7/8"	
EN297C	2'-2 1/4"	3'-10 1/8"	158.379°	7'-3"	142.895°	0'-3 3/8"	11'-4 3/8"	6'-7"	10'-11 7/8"	
EN298C	2'-2 1/4"	3'-10 1/8"	158.365°	7'-3"	142.931°	0'-3 3/8"	11'-4 3/8"	6'-7"	10'-11 7/8"	
EN299C	2'-2 1/4"	3'-10 1/8"	158.350°	7'-3"	142.988°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 7/8"	
EN300C	2'-2 1/4"	3'-10"	158.332°	7'-3"	143.029°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 7/8"	
EN301C	2'-2 1/4"	3'-10"	158.313°	7'-3"	143.079°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 7/8"	
EN302C	2'-2 1/4"	3'-10"	158.292°	7'-3"	143.113°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 3/4"	
EN303C	2'-2 1/4"	3'-9 7/8"	158.269°	7'-3"	143.181°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 3/4"	
EN304C	2'-2 1/4"	3'-9 7/8"	158.244°	7'-3 1/8"	143.232°	0'-3 3/8"	11'-4 3/8"	6'-6 7/8"	10'-11 3/4"	
EN305C	2'-2 1/4"	3'-9 3/4"	158.218°	7'-3 1/8"	143.292°	0'-3 3/8"	11'-4 1/4"	6'-6 7/8"	10'-11 3/4"	
EN306C	2'-2 1/4"	3'-9 3/4"	158.189°	7'-3 1/8"	143.361°	0'-3 3/8"	11'-4 1/4"	6'-6 3/4"	10'-11 3/4"	
EN307C	2'-2 1/4"	3'-9 3/4"	158.159°	7'-3 1/8"	143.414°	0'-3 3/8"	11'-4 1/4"	6'-6 3/4"	10'-11 5/8"	
EN308C	2'-2 1/4"	3'-9 5/8"	158.127°	7'-3 1/4"	143.487°	0'-3 3/8"	11'-4 1/4"	6'-6 3/4"	10'-11 5/8"	
EN309C	2'-2 1/4"	3'-9 5/8"	158.093°	7'-3 1/4"	143.557°	0'-3 1/2"	11'-4 1/4"	6'-6 3/4"	10'-11 5/8"	
EN310C	2'-2 1/4"	3'-9 1/2"	158.058°	7'-3 1/4"	143.634°	0'-3 1/2"	11'-4 1/4"	6'-6 3/4"	10'-11 5/8"	
EN311C	2'-2 1/4"	3'-9 3/8"	158.021°	7'-3 1/4"	143.708°	0'-3 1/2"	11'-4 1/4"	6'-6 3/4"	10'-11 1/2"	
EN312C	2'-2 1/4"	3'-9 3/8"	157.981°	7'-3 3/8"	143.778°	0'-3 1/2"	11'-4 1/8"	6'-6 5/8"	10'-11 1/2"	
EN313C	2'-2 1/4"	3'-9 1/4"	157.939°	7'-3 3/8"	143.855°	0'-3 1/2"	11'-4 1/8"	6'-6 5/8"	10'-11 1/2"	
EN314C	2'-2 1/4"	3'-9 1/8"	157.896°	7'-3 3/8"	143.941°	0'-3 1/2"	11'-4 1/8"	6'-6 5/8"	10'-11 1/2"	
EN315C	2'-2 1/4"	3'-9 1/8"	157.850°	7'-3 1/2"	144.033°	0'-3 1/2"	11'-4 1/8"	6'-6 5/8"	10'-11 3/8"	
EN316C	2'-2 1/4"	3'-9"	157.803°	7'-3 1/2"	144.111°	0'-3 1/2"	11'-4"	6'-6 5/8"	10'-11 3/8"	
EN317C	2'-2 1/4"	3'-8 7/8"	157.754°	7'-3 1/2"	144.207°	0'-3 5/8"	11'-4"	6'-6 5/8"	10'-11 3/8"	
EN318C	2'-2 1/4"	3'-8 3/4"	157.702°	7'-3 5/8"	144.287°	0'-3 5/8"	11'-4"	6'-6 5/8"	10'-11 1/4"	
EN319C	2'-2 1/4"	3'-8 3/4"	157.649°	7'-3 5/8"	144.386°	0'-3 5/8"	11'-4"	6'-6 1/2"	10'-11 1/4"	
EN320C	2'-2 1/4"	3'-8 5/8"	157.594°	7'-3 3/4"	144.481°	0'-3 5/8"	11'-4"	6'-6 1/2"	10'-11 1/8"	
EN321C	2'-2 1/4"	3'-8 1/2"	157.536°	7'-3 3/4"	144.572°	0'-3 5/8"	11'-3 7/8"	6'-6 1/2"	10'-11 1/8"	
EN322C	2'-2 1/4"	3'-8 3/8"	157.476°	7'-3 7/8"	144.669°	0'-3 5/8"	11'-3 7/8"	6'-6 1/2"	10'-11 1/8"	
EN323C	2'-2 1/4"	3'-8 1/4"	157.414°	7'-3 7/8"	144.762°	0'-3 3/4"	11'-3 7/8"	6'-6 1/2"	10'-11"	
EN324C	2'-2 1/4"	3'-8 1/8"	157.350°	7'-3 7/8"	144.862°	0'-3 3/4"	11'-3 3/4"	6'-6 1/2"	10'-11"	
EN325C	2'-2 1/4"	3'-8"	157.283°	7'-4"	144.968°	0'-3 3/4"	11'-3 3/4"	6'-6 3/8"	10'-10 7/8"	
EN326C	2'-2 1/4"	3'-7 7/8"	157.214°	7'-4"	145.059°	0'-3 3/4"	11'-3 3/4"	6'-6 3/8"	10'-10 7/8"	
EN327C	2'-2 1/4"	3'-7 3/4"	157.143°	7'-4 1/8"	145.167°	0'-3 3/4"	11'-3 5/8"	6'-6 3/8"	10'-10 3/4"	
EN328C	2'-2 1/4"	3'-7 5/8"	157.070°	7'-4 1/8"	145.270°	0'-3 7/8"	11'-3 5/8"	6'-6 3/8"	10'-10 3/4"	
EN329C	2'-2 1/4"	3'-7 1/2"	156.994°	7'-4 1/4"	145.369°	0'-3 7/8"	11'-3 5/8"	6'-6 3/8"	10'-10 5/8"	
EN330C	2'-2 1/4"	3'-7 3/8"	156.916°	7'-4 3/8"	145.484°	0'-3 7/8"	11'-3 1/2"	6'-6 3/8"	10'-10 5/8"	
EN331C	2'-2 1/4"	3'-7 1/4"	156.835°	7'-4 3/8"	145.584°	0'-3 7/8"	11'-3 1/2"	6'-6 1/4"	10'-10 1/2"	
EN332C EN333C	2'-2 1/4" 2'-2 1/4"	3'-7 1/8" 3'-6 7/8" 3'-6 3/4"	156.752° 156.666°	7'-4 1/2" 7'-4 1/2" 7'-4 5/8"	145.700° 145.811°	0'-3 7/8" 0'-4"	11'-3 1/2" 11'-3 3/8"	6'-6 1/4" 6'-6 1/4"	10'-10 1/2" 10'-10 3/8"	
EN334C	2'-2 1/4"	シード フ/イ"	156.578°	/:_4 5/8"	145.918°	0'-4"	11'-3 3/8"	6'-6 1/4"	10'-10 1/4"	

ID	P01V	5 I	BKI A01	LO2	A02	LO3	RTI	1 K		H04V
EN337C	2'-2 1/4"	3'-6 1/4"	156.296°	7'-4 7/8"	146.240°	0'-4 1/8"	11'-3 1/4"	6'-6 1/4"	10'-10 1/8"	11011
EN338C EN339C	2'-2 1/4"	3'-6 1/8" 3'-6"	156.197° 156.094°	7'-5" 7'-5"	146.357° 146.460°	0'-4 1/8"	11'-3 1/8" 11'-3 1/8"	6'-6 1/8" 6'-6 1/8"	10'-10" 10'-9 7/8"	
EN340C	2'-2 1/4"	3'-5 3/4"	155.989°	7'-5 1/8"	146.568°	0'-4 1/8"	11'-3 1/8"	6'-6 1/8"	10'-9 7/8"	
EN341C	2'-2 1/4"	3'-5 5/8"	155.881°	7'-5 1/4"	146.689°	0'-4 1/4"	11'-3"	6'-6 1/8"	10'-9 3/4"	
EN342C	2'-2 1/4"	3'-5 3/8"	155.769°	7'-5 1/4"	146.797°	0'-4 1/4"	11'-3"	6'-6 1/8"	10'-9 5/8"	
EN343C EN344C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	3'-5 1/4" 3'-5"	155.655° 155.538°	7'-5 1/4 7'-5 3/8" 7'-5 1/2"	146.909° 147.017°	0'-4 1/4" 0'-4 3/8"	11'-2 7/8" 11'-2 7/8"	6'-6" 6'-6"	10'-9 5/8" 10'-9 1/2"	
EN345C EN346C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	3'-4 7/8" 3'-4 5/8"	155.416° 155.293°	7'-5 5/8" 7'-5 5/8"	147.137° 147.244°	0'-4 3/8" 0'-4 3/8"	11'-2 7/8" 11'-2 7/8" 11'-2 3/4"	6'-5 7/8" 6'-5 7/8"	10'-9 3/8" 10'-9 1/4"	
EN347C	2'-2 1/4"	3'-4 1/2"	155.165°	7'-5 3/4"	147.355°	0'-4 1/2"	11'-2 3/4"	6'-5 7/8"	10'-9 1/4"	
EN348C	2'-2 1/4"	3'-4 1/4"	155.034°	7'-5 7/8"	147.462°	0'-4 1/2"	11'-2 5/8"	6'-5 3/4"	10'-9 1/8"	
EN349C	2'-2 1/4"	3'-4 1/8"	154.899°	7'-6"	147.580°	0'-4 1/2"	11'-2 5/8"	6'-5 3/4"	10'-9"	
EN350C	2'-2 1/4"	3'-3 7/8"	154.760°	7'-6 1/8"	147.694°	0'-4 5/8"	11'-2 1/2"	6'-5 5/8"	10'-8 7/8"	
EN351C	2'-2 1/4"	3'-3 5/8"	154.618°	7'-6 1/4"	147.795°	0'-4 5/8"	11'-2 1/2"	6'-5 5/8"	10'-8 3/4"	
EN352C	2'-2 1/4"	3'-3 1/2"	154.471°	7'-6 1/4"	147.908°	0'-4 5/8"	11'-2 3/8"	6'-5 5/8"	10'-8 3/4"	
EN353C	2'-2 1/4"	3'-3 1/4"	154.322°	7'-6 3/8"	148.024°	0'-4 3/4"	11'-2 3/8"	6'-5 1/2"	10'-8 5/8"	
EN354C	2'-2 1/4"	3'-3"	154.168°	7'-6 1/2"	148.120°	0'-4 3/4"	11'-2 1/4"	6'-5 1/2"	10'-8 1/2"	
EN355C	2'-2 1/4"	3'-2 3/4"	154.009°	7'-6 5/8"	148.235°	0'-4 3/4"	11'-2 1/4"	6'-5 3/8"	10'-8 3/8"	
EN356C	2'-2 1/4"	3'-2 5/8"	153.847°	7'-6 3/4"	148.345°	0'-4 7/8"	11'-2 1/8"	6'-5 3/8"	10'-8 1/4"	
EN357C	2'-2 1/4"	3'-2 3/8"	153.679°	7'-6 7/8"	148.450°	0'-4 7/8"	11'-2 1/8"	6'-5 3/8"	10'-8 1/8"	
EN358C	2'-2 1/4"	3'-2 1/8"	153.508°	7'-7"	148.559°	0'-4 7/8"	11'-2"	6'-5 1/4"	10'-8"	
EN359C	2'-2 1/4"	3'-1 7/8"	153.332°	7'-7 1/8"	148.663°	0'-5"	11'-2"	6'-5 1/4"	10'-7 7/8"	
EN360C	2'-2 1/4"	3'-1 5/8"	153.150°	7'-7 1/4"	148.770°	0'-5"	11'-1 7/8"	6'-5 1/8"	10'-7 7/8"	
EN361C	2'-2 1/4"	3'-1 3/8"	152.964°	7'-7 3/8"	148.880°	0'-5"	11'-1 7/8"	6'-5 1/8"	10'-7 3/4"	
EN362C	2'-2 1/4"	3'-1 1/8"	152.773°	7'-7 1/2"	148.978°	0'-5 1/8"	11'-1 3/4"	6'-5 1/8"	10'-7 5/8"	
EN363C EN364C	2'-2 1/4"	3'-0 7/8" 3'-0 5/8"	152.577° 152.376°	7'-7 5/8" 7'-7 3/4"	149.086° 149.190°	0'-5 1/8" 0'-5 1/4"	11'-1 5/8" 11'-1 5/8"	6'-5" 6'-5"	10'-7 1/2" 10'-7 3/8"	
EN365C	2'-2 1/4"	3'-0 3/8"	152.169°	7'-7 7/8"	149.289°	0'-5 1/4"	11'-1 1/2"	6'-4 7/8"	10'-7 1/4"	
EN366C	2'-2 1/4"	3'-0 1/8"	151.957°	7'-8"	149.391°	0'-5 1/4"	11'-1 1/2"	6'-4 7/8"	10'-7 1/8"	
EN367C	2'-2 1/4"	2'-11 7/8"	151.738°	7'-8 1/8"	149.495°	0'-5 3/8"	11'-1 3/8"	6'-4 7/8"	10'-7"	
EN368C EN369C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-11 7/8" 2'-11 5/8" 2'-11 3/8"	151.736 151.513° 151.282°	7'-8 1/4" 7'-8 3/8"	149.589° 149.691°	0'-5 3/8" 0'-5 1/2"	11'-1 3/8" 11'-1 1/4"	6'-4 3/4" 6'-4 3/4"	10'-6 7/8" 10'-6 5/8"	
EN370C EN371C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-11 1/8" 2'-10 7/8"	151.262 151.044° 150.801°	7'-8 1/2" 7'-8 3/4"	149.789° 149.890°	0'-5 1/2" 0'-5 5/8"	11'-1 1/4" 11'-1 1/4" 11'-1 1/8"	6'-4 5/8" 6'-4 5/8"	10'-6 3/8"	
EN372C EN373C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-10 7/8" 2'-10 5/8" 2'-10 1/4"	150.549° 150.292°	7'-8 7/8"	149.986° 150.084°	0'-5 5/8" 0'-5 3/4"	11'-1"	6'-4 5/8" 6'-4 1/2"	10'-6 1/4" 10'-6 1/8"	
EN374C EN375C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-10" 2'-10" 2'-9 3/4"	150.027° 149.754°	7'-9 1/8" 7'-9 1/4"	150.178° 150.274°	0'-5 3/4" 0'-5 3/4"	11'-0 7/8" 11'-0 7/8"	6'-4 1/2" 6'-4 3/8"	10'-6" 10'-5 7/8"	
EN376C EN377C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-9 1/2" 2'-9 1/8"	149.474° 149.184°	7'-9 3/8" 7'-9 5/8"	150.274 150.367° 150.455°	0'-5 7/8" 0'-5 7/8"	11'-0 7/8 11'-0 3/4" 11'-0 5/8"	6'-4 3/8" 6'-4 3/8"	10'-5 7/6 10'-5 3/4" 10'-5 5/8"	
EN378C EN379C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-8 7/8" 2'-8 5/8"	148.888° 148.582°	7'-9 3/4" 7'-9 7/8"	150.551° 150.643°	0'-6" 0'-6"	11'-0 5/8" 11'-0 1/2"	6'-4 1/4" 6'-4 1/4"	10'-5 3/8" 10'-5 1/4"	
EN380C	2'-2 1/4"	2'-8 3/8"	148.268°	7'-10"	150.732°	0'-6 1/8"	11'-0 1/2"	6'-4 1/8"	10'-5 1/8"	
EN381C	2'-2 1/4"	2'-8"	147.944°	7'-10 1/4"	150.822°	0'-6 1/8"	11'-0 3/8"	6'-4 1/8"	10'-5"	
EN382C	2'-2 1/4"	2'-7 3/4"	147.610°	7'-10 3/8"	150.908°	0'-6 1/4"	11'-0 3/8"	6'-4 1/8"	10'-4 7/8"	
EN383C	2'-2 1/4"	2'-7 1/2"	147.266°	7'-10 1/2"	150.996°	0'-6 1/4"	11'-0 1/4"	6'-4"	10'-4 5/8"	
EN384C EN385C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-7 1/8" 2'-6 7/8"	146.913° 146.547°	7'-10 1/2 7'-10 3/4" 7'-10 7/8"	151.080° 151.171°	0'-6 3/8" 0'-6 3/8"	11'-0 1/8" 11'-0 1/8"	6'-4" 6'-3 7/8"	10'-4 1/2" 10'-4 3/8"	
EN386C EN387C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-6 1/2" 2'-6 1/4"	146.173° 145.785°	7'-11" 7'-11 1/4"	151.259° 151.338°	0'-6 1/2" 0'-6 1/2"	11'-0" 11'-0"	6'-3 7/8" 6'-3 7/8"	10'-4 1/4" 10'-4"	
EN388C EN389C	2'-2 1/4" 2'-2 1/4" 2'-2 1/4"	2'-5 7/8" 2'-5 5/8"	145.386° 144.975°	7'-11 3/8" 7'-11 1/2"	151.418° 151.500°	0'-6 5/8" 0'-6 5/8"	10'-11 7/8" 10'-11 7/8"	6'-3 3/4" 6'-3 3/4"	10'-3 7/8" 10'-3 3/4"	
EN390C	2'-2 1/4"	2'-5 1/4"	144.550°	7'-11 3/4"	151.583°	0'-6 3/4"	10'-11 3/4"	6'-3 5/8"	10'-3 1/2"	
EN391C	2'-2 1/4"	2'-5"	144.112°	7'-11 7/8"	151.668°	0'-6 7/8"	10'-11 3/4"	6'-3 5/8"	10'-3 3/8"	
EN392C	2'-2 1/4"	2'-4 3/4"	143.661°	8'-0 1/8"	151.745°	0'-6 7/8"	10'-11 5/8"	6'-3 5/8"	10'-3 1/4"	
EN393C	2'-2 1/4"	2'-4 3/8"	143.194°	8'-0 1/4"	151.822°	0'-7"	10'-11 5/8"	6'-3 1/2"	10'-3"	
EN394C	2'-2 1/4"	2'-4"	142.713°	8'-0 3/8"	151.902°	0'-7"	10'-11 1/2"	6'-3 1/2"	10'-2 7/8"	
EN395C	2'-2 1/4"	2'-3 3/4"	142.216°	8'-0 5/8"	151.978°	0'-7 1/8"	10'-11 1/2"	6'-3 3/8"	10'-2 5/8"	
EN396C	2'-2 1/4"	2'-3 3/8"	141.703°	8'-0 3/4"	152.055°	0'-7 1/8"	10'-11 3/8"	6'-3 3/8"	10'-2 1/2"	
EN397C	2'-2 1/4"	2'-3 1/8"	141.173°	8'-1"	152.129°	0'-7 1/4"	10'-11 3/8"	6'-3 3/8"	10'-2 3/8"	
EN398C	2'-2 1/4"	2'-2 3/4"	140.625°	8'-1 1/8"	152.204°	0'-7 3/8"	10'-11 1/4"	6'-3 1/4"	10'-2 1/8"	
EN399C	2'-2 1/4"	2'-2 1/2"	140.060°	8'-1 3/8"	152.276°	0'-7 3/8"	10'-11 1/4"	6'-3 1/4"	10'-2"	
EN400C	2'-2 1/4"	2'-2 1/8"	139.474°	8'-1 1/2"	152.350°	0'-7 1/2"	10'-11 1/8"	6'-3 1/8"	10'-1 3/4"	
EN401C	2'-2 1/4"	2'-1 7/8"	138.869°	8'-1 3/4"	152.420°	0'-7 1/2"	10'-11 1/8"	6'-3 1/8"	10'-1 5/8"	
EN402C	2'-2 1/4"	2'-1 1/2"	138.244°	8'-2"	152.491°	0'-7 5/8"	10'-11 1/8"	6'-3"	10'-1 3/8"	
EN403C	2'-2 1/4"	2'-1 1/4"	137.597°	8'-2 1/8"	152.560°	0'-7 3/4"	10'-11"	6'-3"	10'-1 1/4"	
EN404C	2'-2 1/4"	2'-0 7/8"	136.927°	8'-2 3/8"	152.633°	0'-7 3/4"	10'-11"	6'-2 7/8"	10'-1"	
EN405C	2'-2 1/4"	2'-0 5/8"	136.235°	8'-2 1/2"	152.700°	0'-7 7/8"	10'-11"	6'-2 3/4"	10'-0 7/8"	
EN406C EN407C	2'-2 1/4"	2'-0 1/4"	135.518° 134.777°	8'-2 3/4" 8'-3"	152.764° 152.833°	0'-7 7/8"	10'-11" 10'-10 7/8"	6'-2 5/8" 6'-2 1/2"	10'-0 5/8" 10'-0 3/8"	
EN408C EN409C	2'-2 1/4" 2'-2 1/4"	1'-11 5/8" 1'-11 3/8"	134.009° 133.212°	8'-3 1/8" 8'-3 3/8"	152.899° 152.966°	0'-8 1/8"	10'-10 7/8" 10'-10 7/8"	6'-2 1/2" 6'-2 3/8"	10'-0 1/4" 10'-0"	
EN410C EN411C	2'-2 1/4"	1'-11" 1'-10 3/4"	132.389° 131.537°	8'-3 5/8" 8'-3 3/4"	153.030° 153.095°	0'-8 1/4"	10'-10 7/8" 10'-10 7/8"	6'-2 1/4" 6'-2 1/8"	9'-11 7/8" 9'-11 5/8"	
EN412C EN413C	2'-2 1/4"	1'-10 3/8" 1'-10 1/8"	130.653° 129.740°	8'-4" 8'-4 1/4"	153.157° 153.217°	0'-8 3/8"	10'-10 7/8" 10'-10 7/8"	6'-2" 6'-2"	9'-11 3/8" 9'-11 1/4"	
EN414C	2'-2 1/4"	1'-9 3/4"	128.792°	8'-4 3/8"	153.282°	0'-8 5/8"	10'-10 7/8"	6'-1 7/8"	9'-11"	
EN415C	2'-2 1/4"	1'-9 1/2"	127.811°	8'-4 5/8"	153.340°	0'-8 5/8"	10'-10 7/8"	6'-1 3/4"	9'-10 3/4"	
EN416C	2'-2 1/4"	1'-9 5/8"	128.212°	8'-4 1/4"	153.399°	0'-8 3/4"	10'-10 5/8"	6'-1 5/8"	9'-10 5/8"	
EN417C EN418C	2'-2 1/4" 2'-2 1/8" 2'-2"	1'-10" 1'-10 3/8"	129.495° 130.711°	8'-3 1/2" 8'-2 3/4"	153.459° 153.517°	0'-8 7/8" 0'-8 7/8"	10'-10 3/8" 10'-10 1/8"	6'-1 1/2" 6'-1 3/8"	9'-10 3/8" 9'-10 1/8"	
EN419C EN420C	2'-1 7/8" 2'-1 3/4"	1'-10 3/8" 1'-10 7/8" 1'-11 1/4"	131.866° 132.958°	8'-2" 8'-1 1/4"	153.575° 153.631°	0'-9" 0'-9 1/8"	10'-9 7/8" 10'-9 5/8"	6'-1 3/8" 6'-1 1/4"	9'-10" 9'-10" 9'-9 3/4"	
EN421C EN422C	2'-1 5/8" 2'-1 1/2"	1'-11 5/8"	133.995° 134.976°	8'-0 1/2" 7'-11 7/8"	153.685° 153.742°	0'-9 1/4" 0'-9 1/4"	10'-9 3/8" 10'-9 1/8"	6'-1 1/8" 6'-1"	9'-9 1/2" 9'-9 1/4"	
EN423C	2'-1 3/8"	2'-0 3/8"	135.908°	7'-11 1/8"	153.798°	0'-9 3/8"	10'-8 7/8"	6'-0 7/8"	9'-9 1/8"	
EN424C	2'-1 1/4"	2'-0 7/8"	136.792°	7'-10 3/8"	153.851°	0'-9 1/2"	10'-8 3/4"	6'-0 7/8"	9'-8 7/8"	
EN425C EN426C	2'-1 1/8"	2'-1 1/4" 2'-1 5/8"	137.634° 138.430°	7'-9 3/4" 7'-9"	153.905° 153.959°	0'-9 1/2" 0'-9 5/8"	10'-8 1/2" 10'-8 1/4"	6'-0 3/4" 6'-0 5/8"	9'-8 5/8" 9'-8 3/8"	
EN427C EN428C	2'-0 7/8" 2'-0 3/4"	2'-2"	139.187° 139.904°	7'-8 3/8" 7'-7 5/8"	154.012° 154.062°	0'-9 3/4" 0'-9 7/8"	10'-8 1/8" 10'-7 7/8"	6'-0 1/2" 6'-0 3/8"	9'-8 1/8" 9'-7 7/8"	
EN429C EN430C	2'-0 5/8" 2'-0 1/2"	2'-2 3/4" 2'-3 1/8"	140.589° 141.238°	7'-7" 7'-6 3/8"	154.113° 154.161°	0'-9 7/8"	10'-7 3/4" 10'-7 1/2"	6'-0 1/4" 6'-0 1/4"	9'-7 3/4" 9'-7 1/2"	
EN431C EN432C	2'-0 3/8" 2'-0 1/4"	2'-3 1/2" 2'-3 7/8"	141.855° 142.442°	7'-5 3/4" 7'-5 1/8"	154.211° 154.261°	0'-10 1/8"	10'-7 3/8" 10'-7 1/4"	6'-0 1/8" 6'-0"	9'-7 1/4" 9'-7"	
EN433C	2'-0 1/8"	2'-4 1/4"	143.002°	7'-4 1/2"	154.312°	0'-10 3/8"	10'-7"	5'-11 7/8"	9'-6 3/4"	
EN434C	2'-0"	2'-4 5/8"	143.533°	7'-3 7/8"	154.359°	0'-10 3/8"	10'-6 7/8"	5'-11 3/4"	9'-6 1/2"	
EN435C	2'-0"	2'-5"	144.038°	7'-3 1/4"	154.405°	0'-10 1/2"	10'-6 3/4"	5'-11 3/4"	9'-6 1/4"	
EN436C	1'-11 7/8"	2'-5 1/4"	144.519°	7'-2 5/8"	154.450°	0'-10 5/8"	10'-6 5/8"	5'-11 5/8"	9'-6"	
EN437C	1'-11 3/4"	2'-5 5/8"	144.976°	7'-2 1/8"	154.499°	0'-10 3/4"	10'-6 3/8"	5'-11 1/2"	9'-5 3/4"	
EN438C	1'-11 5/8"	2'-6"	145.412°	7'-1 1/2"	154.545°	0'-10 7/8"	10'-6 1/4"	5'-11 3/8"	9'-5 1/2"	
EN439C	1'-11 1/2"	2'-6 1/4"	145.827°	7'-0 7/8"	154.587°	0'-10 7/8"	10'-6 1/8"	5'-11 1/4"	9'-5 1/4"	
EN440C	1'-11 3/8"	2'-6 5/8"	146.220°	7'-0 3/8"	154.634°	0'-11"	10'-6"	5'-11 1/4"	9'-5"	
EN441C	1'-11 1/4"	2'-6 7/8"	146.596°	6'-11 7/8"	154.677°	0'-11 1/8"	10'-5 7/8"	5'-11 1/8"	9'-4 3/4"	
EN442C	1'-11 1/8"	2'-7 1/8"	146.952°	6'-11 1/4"	154.721°	0'-11 1/4"	10'-5 5/8"	5'-11"	9'-4 1/2"	
EN443C	1'-11"	2'-7 1/2"	147.291°	6'-10 3/4"	154.763°	0'-11 3/8"	10'-5 1/2"	5'-10 7/8"	9'-4 1/4"	
EN444C	1'-10 7/8"	2'-7 3/4"	147.614°	6'-10 1/4"	154.803°	0'-11 3/8"	10'-5 3/8"	5'-10 3/4"	9'-4"	
EN445C	1'-10 3/4"	2'-8"	147.919°	6'-9 3/4"	154.847°	0'-11 1/2"	10'-5 1/4"	5'-10 5/8"	9'-3 3/4"	
EN446C	1'-10 5/8"	2'-8 1/4"	148.211°	6'-9 1/4"	154.886°	0'-11 5/8"	10'-5 1/8"	5'-10 5/8"	9'-3 1/2"	
EN447C	1'-10 1/2"	2'-8 1/2"	148.487°	6'-8 3/4"	154.930°	0'-11 3/4"	10'-5"	5'-10 1/2"	9'-3 1/4"	
EN448C	1'-10 3/8"	2'-8 3/4"	148.747°	6'-8 1/4"	154.971°	0'-11 7/8"	10'-4 7/8"	5'-10 3/8"	9'-3"	
EN449C	1'-10 1/4"	2'-9"	148.995°	6'-7 3/4"	155.007°	1'-0"	10'-4 3/4"	5'-10 1/4"	9'-2 3/4"	
EN450C	1'-10 1/8"	2'-9 1/4"	149.230°	6'-7 1/4"	155.046°	1'-0 1/8"	10'-4 5/8"	5'-10 1/8"	9'-2 3/8"	
EN451C	1'-10"	2'-9 1/2"	149.452°	6'-6 7/8"	155.083°	1'-0 1/8"	10'-4 1/2"	5'-10 1/8"	9'-2 1/8"	
EN452C	1'-9 7/8"	2'-9 5/8"	149.662°	6'-6 3/8"	155.124°	1'-0 1/4"	10'-4 3/8"	5'-10"	9'-1 7/8"	
EN453C EN454C	1'-9 3/4" 1'-9 5/8" 1'-9 1/2"	2'-9 7/8" 2'-10" 2'-10 1/4"	149.858° 150.044° 150.219°	6'-5 7/8" 6'-5 1/2" 6'-5 1/8"	155.163° 155.200° 155.236°	1'-0 3/8" 1'-0 1/2" 1'-0 5/8"	10'-4 1/8" 10'-4" 10'-3 7/8"	5'-9 7/8" 5'-9 3/4" 5'-9 5/8"	9'-1 5/8" 9'-1 3/8" 9'-1"	
EN455C EN456C	1'-9 1/2" 1'-9 3/8" 1'-9 1/4"	2'-10 1/4" 2'-10 3/8" 2'-10 1/2"	150.219° 150.382° 150.535°	6'-5 1/8" 6'-4 5/8" 6'-4 1/4"	155.236° 155.272° 155.308°	1'-0 5/8" 1'-0 3/4" 1'-0 7/8"	10'-3 7/8" 10'-3 3/4" 10'-3 5/8"	5'-9 5/8" 5'-9 1/2" 5'-9 1/2"	9'-1" 9'-0 3/4" 9'-0 1/2"	
EN457C	1'-9 1/4"	2'-10 1/2"	150.535°	6'-4 1/4"	155.308°	1'-0 7/8"	10'-3 5/8"	5'-9 1/2"	9'-0 1/2"	
EN458C	1'-9 1/8"	2'-10 3/4"	150.677°	6'-3 7/8"	155.344°	1'-1"	10'-3 1/2"	5'-9 3/8"	9'-0 1/4"	
EN459C	1'-9"	2'-10 7/8"	150.809°	6'-3 1/2"	155.377°	1'-1 1/8"	10'-3 3/8"	5'-9 1/4"	8'-11 7/8"	
EN460C EN461C	1'-9" 1'-8 7/8" 1'-8 3/4"	2'-10 7/8" 2'-11" 2'-11 1/8"	150.809° 150.932° 151.045°	6'-3 1/2" 6'-3 1/8" 6'-2 3/4"	155.414° 155.448°	1'-1 1/8" 1'-1 1/4" 1'-1 3/8"	10'-3 3/8" 10'-3 1/4" 10'-3 1/8"	5'-9 1/4" 5'-9 1/8" 5'-9"	8'-11 7/8" 8'-11 5/8" 8'-11 3/8"	
EN462C EN463C	1'-8 5/8" 1'-8 1/2"	2'-11 1/8" 2'-11 1/4" 2'-11 3/8"	151.148° 151.242°	6'-2 3/8" 6'-2"	155.480° 155.514°	1'-1 3/8" 1'-1 1/2"	10-3 1/8 10'-3" 10'-2 7/8"	5'-9" 5'-8 3/4"	8'-11 1/8" 8'-10 3/4"	
EN464C EN465C	1'-8 3/8" 1'-8 3/8"	2'-11 3/8" 2'-11 1/2"	151.327° 151.402°	6'-1 5/8" 6'-1 3/8"	155.546° 155.579°	1'-1 5/8" 1'-1 3/4"	10'-2 7/8 10'-2 3/4" 10'-2 5/8"	5'-8 5/8" 5'-8 1/2"	8'-10 1/2" 8'-10 1/4"	
EN466C EN467C	1'-8 1/4" 1'-8 1/8"	2'-11 5/8" 2'-11 5/8"	151.470° 151.528°	6'-1" 6'-0 3/4"	155.613° 155.645°	1'-1 7/8" 1'-2"	10'-2 5/6 10'-2 1/2" 10'-2 3/8"	5'-8 3/8" 5'-8 1/4"	8'-9 7/8" 8'-9 5/8"	
EN468C	1'-8"	2'-11 3/4"	151.577°	6'-0 3/8"	155.673°	1'-2 1/8"	10'-2 1/4"	5'-8 1/8"	8'-9 1/4"	
EN469C	1'-7 7/8"	2'-11 3/4"	151.619°	6'-0 1/8"	155.707°	1'-2 1/4"	10'-2 1/8"	5'-8"	8'-9"	
EN470C	1'-7 3/4"	2'-11 3/4"	151.651°	5'-11 3/4"	155.737°	1'-2 3/8"	10'-2"	5'-7 7/8"	8'-8 3/4"	
EN471C	1'-7 5/8"	2'-11 7/8"	151.674°	5'-11 1/2"	155.767°	1'-2 1/2"	10'-1 7/8"	5'-7 3/4"	8'-8 3/8"	
EN472C	1'-7 1/2"	2'-11 7/8"	151.690°	5'-11 1/4"	155.798°	1'-2 5/8"	10'-1 3/4"	5'-7 5/8"	8'-8 1/8"	
EN473C	1'-7 3/8"	2'-11 7/8"	151.696°	5'-11"	155.828°	1'-2 3/4"	10'-1 5/8"	5'-7 1/2"	8'-7 3/4"	
EN474C	1'-7 1/4"	2'-11 7/8"	151.695°	5'-10 3/4"	155.856°	1'-2 7/8"	10'-1 1/2"	5'-7 3/8"	8'-7 1/2"	10'-6 3/4
EN475C	1'-7 1/8"	2'-11 7/8"	151.685°	5'-10 1/2"	155.883°	1'-3"	10'-1 3/8"	5'-7 1/4"	8'-7 1/8"	10'-6 3/8
EN476C	1'-7"	2'-11 7/8"	151.667°	5'-10 1/4"	155.914°	1'-3 1/8"	10'-1 1/4"	5'-7 1/8"	8'-6 7/8"	10'-6 1/8
EN477C	1'-6 7/8"	2'-11 3/4"	151.640°	5'-10"	155.942°	1'-3 1/4"	10'-1 1/8"	5'-7"	8'-6 1/2"	10'-5 3/4
EN478C	1'-6 3/4"	2'-11 3/4"	151.605°	5'-9 7/8"	155.967°	1'-3 3/8"	10'-1"	5'-6 7/8"	8'-6 1/4"	10'-5 1/2
EN479C	1'-6 5/8"	2'-11 3/4"	151.561°	5'-9 5/8"	155.996°	1'-3 1/2"	10'-0 7/8"	5'-6 3/4"	8'-5 7/8"	10'-5 1/8
EN480C	1'-6 1/2"	2'-11 5/8"	151.509°	5'-9 3/8"	156.024°	1'-3 5/8"	10'-0 3/4"	5'-6 5/8"	8'-5 5/8"	10'-4 3/4
EN481C	1'-6 3/8"	2'-11 5/8"	151.448°	5'-9 1/4"	156.051°	1'-3 3/4"	10'-0 5/8"	5'-6 3/8"	8'-5 1/4"	10'-4 1/2
EN482C	1'-6 1/4"	2'-11 1/2"	151.377°	5'-9"	156.076°	1'-3 7/8"	10'-0 1/2"	5'-6 1/4"	8'-5"	10'-4 1/8
EN483C	1'-6 1/8"	2'-11 3/8"	151.298°	5'-8 7/8"	156.102°	1'-4"	10'-0 3/8"	5'-6 1/8"	8'-4 5/8"	10'-3 3/4
EN484C	1'-6"	2'-11 1/4"	151.210°	5'-8 3/4"	156.129°	1'-4 1/8"	10'-0 1/4"	5'-6"	8'-4 1/4"	10'-3 1/2
EN485C	1'-5 7/8"	2'-11 1/4"	151.112°	5'-8 5/8"	156.154°	1'-4 1/4"		5'-5 7/8"	8'-4"	10'-3 1/8
EN486C	1'-5 3/4"	2'-11 1/8"	151.006°	5'-8 3/8"	156.180°	1'-4 3/8"	9'-11 7/8"	5'-5 3/4"	8'-3 5/8"	10'-2 3/4
EN487C	1'-5 5/8"	2'-11"	150.889°	5'-8 1/4"	156.204°	1'-4 5/8"	9'-11 3/4"	5'-5 5/8"	8'-3 3/8"	10'-2 1/2
EN488C	1'-5 1/2"	2'-10 3/4"	150.763°	5'-8 1/8"	156.229°	1'-4 3/4"	9'-11 5/8"	5'-5 1/2"	8'-3"	10'-2 1/8
EN489C	1'-5 3/8"	2'-10 5/8"	150.627°	5'-8"	156.253°	1'-4 7/8"	9'-11 1/2"	5'-5 3/8"	8'-2 5/8"	10'-1 3/4
EN490C	1'-5 1/4"	2'-10 1/2"	150.481°	5'-8"	156.278°	1'-5"	9'-11 3/8"	5'-5 1/4"	8'-2 3/8"	10'-1 1/2
EN491C	1'-5 1/8"	2'-10 3/8"	150.324°	5'-7 7/8"	156.301°	1'-5 1/8"	9'-11 1/4"	5'-5 1/8"	8'-2"	
EN492C	1'-5"	2'-10 1/8"	150.157°	5'-7 3/4"	156.325°	1'-5 1/4"	9'-11 1/8"	5'-5"	8'-1 5/8"	10'-0 3/4
EN493C	1'-4 7/8"	2'-10"	149.977°	5'-7 5/8"	156.348°	1'-5 3/8"	9'-11"	5'-4 7/8"	8'-1 1/4"	10'-0 3/8
EN494C	1'-4 7/8"	2'-9 3/4"	149.787°	5'-7 5/8"	156.371°	1'-5 1/2"	9'-10 7/8"	5'-4 3/4"	8'-1"	10'-(
EN495C	1'-4 3/4"	2'-9 5/8"	149.585°	5'-7 1/2"	156.395°	1'-5 5/8"	9'-10 3/4"	5'-4 5/8"	8'-0 5/8"	9'-11 3/4
EN496C	1'-4 5/8"	2'-9 3/8"	149.370°	5'-7 1/2"	156.417°	1'-5 3/4"	9'-10 5/8"	5'-4 1/2"	8'-0 1/4"	9'-11 3/8
EN497C	1'-4 1/2"	2'-9 1/8"	149.143°	5'-7 1/2"	156.439°	1'-6"	9'-10 1/2"	5'-4 3/8"	7'-11 7/8"	
EN498C	1'-4 3/8"	2'-8 7/8"	148.904°	5'-7 3/8"	156.461°	1'-6 1/8"	9'-10 3/8"	5'-4 1/4"	7'-11 5/8"	9'-10 5/8
EN499C	1'-4 1/4"	2'-8 5/8"	148.650°	5'-7 3/8"	156.483°	1'-6 1/4"	9'-10 1/4"	5'-4"	7'-11 1/4"	9'-10 1/4
LINASSO	1'-4 1/8"	2'-8 3/8"	148.382°	5'-7 3/8"	156.505°	1'-6 3/8"	9'-10 1/8"	5'-3 7/8"	7'-10 7/8"	9'-9 7/8
EN500C EN501C	1'-4"	2'-8 1/8"	148.099°	5'-7 3/8"	156.525°	1'-6 1/2"	9'-10"	5'-3 3/4"	7'-10 1/2"	9'-9 5/8

	LA	51	RKI	DG	L -	NORTH RUN						
<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u>A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	<u>ANV</u>	<u>H03V</u>	<u>H04V</u>		
EN505C	1'-3 1/2"	2'-7"	146.811°	5'-7 1/2"	156.607°	1'-7 1/8"	9'-9 5/8"	5'-3 1/4"	7'-9 1/8"	9'-8 1/		
EN506C	1'-3 3/8"	2'-6 3/4"	146.446°	5'-7 1/2"	156.627°	1'-7 1/4"	9'-9 1/2"	5'-3 1/8"	7'-8 3/4"	9'-7 3/		
EN507C EN508C	1'-3 1/4"	2'-6 1/2"	146.062° 145.658°	5'-7 1/2" 5'-7 5/8"	156.648° 156.666°	1'-7 3/8" 1'-7 1/2"	9'-9 3/8"	5'-3" 5'-2 7/8"	7'-8 3/8" 7'-8"	9'-7 3/ 9'-		
EN508C EN509C	1'-3 1/8" 1'-3"	2'-6 1/8" 2'-5 7/8"	145.658° 145.234°	5'-7 5/8"	156.687°	1'-7 1/2"	9'-9 1/4" 9'-9 1/8"	5'-2 7/8"	7'-8"	9'-6 5/		
EN510C	1'-2 7/8"	2'-5 1/2"	144.786°	5'-7 3/4"	156.706°	1'-7 7/8"	9'-9"	5'-2 5/8"	7'-7 1/4"	9'-6 1/		
EN511C	1'-2 3/4"	2'-5 1/8"	144.318°	5'-7 7/8"	156.724°	1'-8"	9'-9"	5'-2 1/2"	7'-6 7/8"	9'-5 7/		
EN512C EN513C	1'-2 5/8" 1'-2 1/2"	2'-4 3/4" 2'-4 1/2"	143.825° 143.306°	5'-7 7/8" 5'-8"	156.742° 156.761°	1'-8 1/8" 1'-8 1/4"	9'-8 7/8" 9'-8 3/4"	5'-2 3/8" 5'-2 1/4"	7'-6 1/2" 7'-6 1/8"	9'-5 1/ 9'-5 1/		
EN513C EN514C	1'-2 3/8"	2'-4 1/2"	143.300°	5'-8 1/8"	156.779°	1'-8 3/8"	9'-8 5/8"	5'-2 1/4"	7'-5 3/4"	9'-4 3/		
EN515C	1'-2 1/4"	2'-3 3/4"	142.187°	5'-8 1/4"	156.798°	1'-8 5/8"	9'-8 1/2"	5'-2"	7'-5 3/8"	9'-4 3/		
EN516C	1'-2 1/8"	2'-3 3/8"	141.583°	5'-8 3/8"	156.816°	1'-8 3/4"	9'-8 1/2"	5'-1 7/8"	7'-5"	9'-		
EN517C EN518C	1'-2" 1'-1 7/8"	2'-3" 2'-2 5/8"	140.948° 140.279°	5'-8 1/2" 5'-8 5/8"	156.833° 156.851°	1'-8 7/8" 1'-9"	9'-8 3/8" 9'-8 3/8"	5'-1 3/4" 5'-1 1/2"	7'-4 5/8" 7'-4 1/4"	9'-3 5/ 9'-3 1/		
EN519C	1'-1 3/4"	2'-2 1/4"	139.577°	5'-8 7/8"	156.869°	1'-9 1/4"	9'-8 1/4"	5'-1 3/8"	7'-3 7/8"	9'-2 7/		
EN520C	1'-1 5/8"	2'-1 7/8"	138.838°	5'-9"	156.886°	1'-9 3/8"	9'-8 1/8"	5'-1 1/4"	7'-3 1/2"	9'-2 3/		
EN521C	1'-1 1/2"	2'-1 3/8"	138.057°	5'-9 1/8"	156.901°	1'-9 1/2"	9'-8 1/8"	5'-1 1/8"	7'-3 1/8"	9'-		
EN522C EN523C	1'-1 3/8" 1'-1 1/4"	2'-1" 2'-0 5/8"	137.236° 136.370°	5'-9 3/8" 5'-9 1/2"	156.920° 156.936°	1'-9 5/8" 1'-9 7/8"	9'-8 1/8" 9'-8"	5'-1" 5'-0 7/8"	7'-2 5/8" 7'-2 1/4"	9'-1 5/ 9'-1 1/		
EN524C	1'-1 1/4"	2'-0 1/4"	135.456°	5'-9 3/4"	156.951°	1'-10"	9'-8"	5'-0 5/8"	7'-1 7/8"	9'-0 7/		
EN525C	1'-1 1/8"	1'-11 7/8"	134.495°	5'-10"	156.968°	1'-10 1/8"	9'-8"	5'-0 1/2"	7'-1 1/2"	9'-0 1/		
EN526C	1'-1"	1'-11 3/8"	133.482°	5'-10 1/4"	156.983°	1'-10 1/4"	9'-7 7/8"	5'-0 1/4"	7'-1 1/8"	9'-		
EN527C EN528C	1'-0 7/8" 1'-0 3/4"	1'-11" 1'-10 5/8"	132.409° 131.280°	5'-10 3/8" 5'-10 5/8"	157.000° 157.015°	1'-10 1/2" 1'-10 5/8"	9'-7 7/8" 9'-7 7/8"	5'-0 1/8" 5'-0"	7'-0 3/4" 7'-0 1/4"	8'-11 5/ 8'-11 1/		
EN529C	1'-0 5/8"	1'-10 1/4"	130.087°	5'-10 7/8"	157.032°	1'-10 3/4"	9'-7 7/8"	4'-11 3/4"	6'-11 7/8"	8'-10 7/		
EN530C	1'-0 1/2"	1'-9 7/8"	128.826°	5'-11 1/8"	157.045°	1'-11"	9'-8"	4'-11 5/8"	6'-11 1/2"	8'-10 1/		
EN531C	1'-0 3/8"	1'-9 3/8"	127.499°	5'-11 1/2"	157.062°	1'-11 1/8"	9'-8"	4'-11 3/8"	6'-11 1/8"	8'-1		
EN532C EN533B	1'-0 1/4" 2'-1"	1'-9" 5'-10 3/4"	126.096° 157.216°	5'-11 3/4" 1'-11 1/2"	157.076°	1'-11 1/4"	9'-8" 7'-10 3/8"	4'-11 1/4" 4'-11 1/8"	6'-10 3/4" 6'-10 1/4"	8'-9 5/ 8'-9 1/		
EN534B	2'-2"	5'-9"	157.430°	1'-11 7/8"			7'-8 7/8"	4'-10 7/8"	6'-9 7/8"	8'-8 3/		
EN535B	2'-3"	5'-7 1/4"	157.637°	2'-0 1/4"			7'-7 1/2"	4'-10 3/4"	6'-9 1/2"	8'-8 3/		
EN536B EN537B	2'-4" 2'-5"	5'-5 1/2" 5'-3 7/8"	157.834° 158.026°	2'-0 5/8" 2'-1"			7'-6 1/4" 7'-4 7/8"	4'-10 5/8" 4'-10 1/2"	6'-9" 6'-8 5/8"	8'- 8'-7 1/		
EN537B	2'-6"	5'-2 1/4"	158.020°	2'-1 3/8"			7'-4 7/6	4'-10 1/2	6'-8 1/4"	8'-7 1/		
EN539B	2'-6 7/8"	5'-0 1/2"	158.386°	2'-1 3/4"			7'-2 1/4"	4'-10 1/4"	6'-7 3/4"	8'-6 3/		
EN540B	2'-7 3/4"	4'-10 7/8"	158.555°	2'-2 1/8"			7'-1"	4'-10 1/8"	6'-7 3/8"	8'-6 1/		
EN541B EN542B	2'-8 3/4" 2'-9 1/2"	4'-9 3/8" 4'-7 3/4"	158.720° 158.878°	2'-2 1/2" 2'-2 3/4"			6'-11 3/4" 6'-10 1/2"	4'-9 7/8" 4'-9 3/4"	6'-7" 6'-6 1/2"	8'-5 7/ 8'-5 1/		
EN543B	2'-10 3/8"	4'-6 1/4"	159.031°	2'-3 1/8"			6'-9 3/8"	4'-9 5/8"	6'-6 1/8"	8'-		
EN544B	2'-11 1/4"	4'-4 5/8"	159.177°	2'-3 1/2"			6'-8 1/4"	4'-9 1/2"	6'-5 5/8"	8'-4 5/		
EN545B	3'-0"	4'-3 1/8"	159.319°	2'-3 7/8"			6'-7"	4'-9 3/8"	6'-5 1/4"	8'-4 1		
EN546B EN547B	3'-0 3/4" 3'-1 1/2"	4'-1 3/4" 4'-0 1/4"	159.456° 159.588°	2'-4 1/4" 2'-4 5/8"			6'-5 7/8" 6'-4 3/4"	4'-9 1/4" 4'-9 1/8"	6'-4 7/8" 6'-4 3/8"	8'-3 3 8'-3 1		
EN548B	3'-2 1/4"	3'-10 3/4"	159.716°	2'-4 7/8"			6'-3 3/4"	4'-8 7/8"	6'-4"	8'-2 7		
EN549B	3'-2 7/8"	3'-9 3/8"	159.839°	2'-5 1/4"			6'-2 5/8"	4'-8 3/4"	6'-3 1/2"	8'-2 3		
EN550B	3'-3 5/8"	3'-8"	159.957°	2'-5 5/8"			6'-1 5/8"	4'-8 5/8"	6'-3 1/8"	8'		
EN551B EN552B	3'-4 1/4" 3'-4 7/8"	3'-6 5/8" 3'-5 1/4"	160.072° 160.182°	2'-6" 2'-6 3/8"			6'-0 5/8" 5'-11 5/8"	4'-8 1/2" 4'-8 3/8"	6'-2 5/8" 6'-2 1/4"	8'-1 1 8'-1 1		
EN553B	3'-5 1/2"	3'-4"	160.289°	2'-6 5/8"			5'-10 5/8"	4'-8 1/4"	6'-1 3/4"	8'-0 5		
EN554B	3'-6"	3'-2 3/4"	160.391°	2'-7"			5'-9 3/4"	4'-8 1/8"	6'-1 3/8"	8'-0 1		
EN555B EN556B	3'-6 5/8" 3'-7 1/8"	3'-1 3/8" 3'-0 1/8"	160.491° 160.588°	2'-7 3/8" 2'-7 5/8"			5'-8 3/4" 5'-7 7/8"	4'-7 7/8" 4'-7 3/4"	6'-0 7/8" 6'-0 3/8"	7'-11 3 7'-11 3		
EN557B	3'-7 5/8"	2'-11"	160.566 160.680°	2'-8"			5-7 7/6	4-7 5/4	6'-0"	7-113		
EN558B	3'-8 1/8"	2'-9 3/4"	160.769°	2'-8 3/8"			5'-6 1/8"	4'-7 1/2"	5'-11 1/2"	7'-10 3		
EN559B	3'-8 5/8"	2'-8 5/8"	160.856°	2'-8 3/4"			5'-5 1/4"	4'-7 3/8"	5'-11 1/8"	7'-		
EN560B EN561B	3'-9 1/8" 3'-9 1/2"	2'-7 3/8" 2'-6 1/4"	160.940° 161.021°	2'-9" 2'-9 3/8"			5'-4 1/2" 5'-3 5/8"	4'-7 1/4" 4'-7 1/8"	5'-10 5/8" 5'-10 1/8"	7'-9 1 7'		
EN562B	3'-9 7/8"	2'-5 1/8"	161.021 161.099°	2'-9 3/4"			5'-2 7/8"	4'-6 7/8"	5'-9 3/4"	7'-8 5		
EN563B	3'-10 1/4"	2'-4 1/8"	161.174°	2'-10"			5'-2 1/8"	4'-6 3/4"	5'-9 1/4"	7'-8 1		
EN564B	3'-10 5/8"	2'-3"	161.246°	2'-10 3/8"			5'-1 3/8"	4'-6 5/8"	5'-8 3/4"	7'-7 5		
EN565B EN566B	3'-10 7/8" 3'-11 1/4"	2'-2" 2'-1"	161.317° 161.384°	2'-10 3/4" 2'-11"			5'-0 3/4" 5'-0"	4'-6 1/2" 4'-6 3/8"	5'-8 3/8" 5'-7 7/8"	7'-7 1 7'-6 3		
EN567B	3'-11 1/2"	2'-0"	161.450°	2'-11 3/8"			4'-11 3/8"	4'-6 1/4"	5'-7 3/8"	7'-6 1		
EN568B	3'-11 3/4"	1'-11"	161.513°	2'-11 3/4"			4'-10 5/8"	4'-6 1/8"	5'-6 7/8"	7'-5 3		
EN569B	4'-0"	1'-10"	161.573°	3'-0"			4'-10"	4'-5 7/8"	5'-6 1/2"	7'-5 3		
EN570B EN571B	4'-0 1/4" 4'-0 3/8"	1'-9 1/8" 1'-8 1/4"	161.632° 161.688°	3'-0 3/8" 3'-0 5/8"			4'-9 1/2" 4'-8 7/8"	4'-5 3/4" 4'-5 5/8"	5'-6" 5'-5 1/2"	7'-4 7 7'-4 3		
EN571B EN572B	4'-0 5/8"	1'-7 3/8"	161.743°	3'-1"			4'-8 3/8"	4'-5 1/2"	5'-5"	7'-4 3		
EN573B	4'-0 3/4"	1'-6 1/2"	161.796°	3'-1 1/4"			4'-7 3/4"	4'-5 3/8"	5'-4 1/2"	7'-3 1		
EN574B	4'-0 7/8"	1'-5 5/8"	161.847°	3'-1 5/8"			4'-7 1/4"	4'-5 1/4"	5'-4 1/8"	7'		
EN575B EN576B	4'-1" 4'-1"	1'-4 3/4" 1'-4"	161.895° 161.942°	3'-2" 3'-2 1/4"			4'-6 3/4" 4'-6 1/4"	4'-5 1/8" 4'-4 7/8"	5'-3 5/8" 5'-3 1/8"	7'-2 1 7'-		

RAIL REFERENCE

3. RE: 1 / A06.10 FOR:

2. RE: RAIL ELEVATIONS FOR:

4. RE: RAIL SCHEDULES FOR:

a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT

c. RAIL VERT BENDS LAYOUT.

b. *RAIL VERT* LEG LENGTHS

c. RAIL VERT BEND ANGLES

d. ANCHORAGE LOCATIONS

e. RAIL HORIZONTAL LOCATIONS

1. RE: A01.00 FOR PROJECT TERMINOLOGY.

a. RAIL VERT CONFIGURATION TYPES.

a. *RAIL VERT* VERTICAL LOCATION RELATIVE TO EACH RAIL RUN BASELINE ELEVATION

RAIL VERT TYPE NOTES

1. RAIL "PO1V" ELEVATIONS SHALL BE USED FOR VERTICAL ALIGNMENT OF MEMBERS DURING SHOP ASSEMBLY.

2. VERTICAL DIMENSIONS OR ELEVATIONS STATED IN *RAIL VERT* SCHEDULES ARE TO *BASELINE ELEVATION* FOR EACH *RAIL RUN*. *THE BASELINE ELEVATION* IS ARBITRARILY SET TO 1'-0" BELOW THE LOWEST POINT OF EACH *RAIL RUN* AND IS UNIQUE TO EACH *RAIL RUN*.

3. ANCHORAGE SPACING LOGIC IS SPECIFIED IN DOCUMENTS, BUT ANCHORAGE IS NOT PRESENT AT EVERY RAIL VERT. BECAUSE SPECIFIC ANCHORAGE PLAN LOCATIONS ARE LAID OUT BY FABRICATOR, "ANV" ELEVATION HAS BEEN PROVIDED FOR ALL RAIL VERTS.

RAIL VERT TYPE LEGEND

"#" SYMBOL REPRESENTS A NUMBER

P0# - POINT AT CENTERPOINT OF *RAIL VERT* SEGMENT, LOCATED AT EITHER: *RAIL VERT ENDS* (TOP/BOTTOM) OR *RAIL VERT BREAKS*.

P0#V - POINT VERTICAL DISTANCE TO BASELINE ELEVATION

L0# - RAIL VERT SEGEMENT (LEG) OR LENGTH OF SEGMENT (LEG)

H0# - RAIL HORIZONTAL

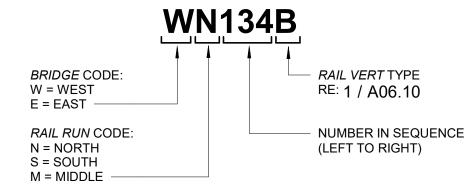
H0#V - RAIL HORIZONTAL VERTICAL DISTANCE TO BASELINE ELEVATION

A0# - ANGLE BETWEEN ADJACENT RAIL VERT SEGMENTS

AN01 - CENTERLINE OF ANCHORAGE

ANV - ANCHORAGE VERTICAL DISTANCE TO BASELINE ELEVATION

RAIL VERT ID LOGIC

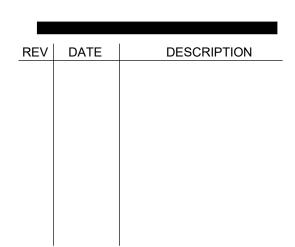


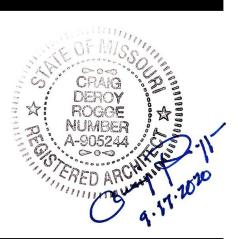
GBA

9801 Renner Blvd. Ste. 300 Lenexa, KS 66219 913.492.0400 gbateam.com

BRIDGE PLAN

View High Dr, View High Pk Lee's Summit, M





PROJECT NUMBER 12720.62

DATE 2020.09.17

ISSUE FOR CONSTRUCTION

NJC

DRAWN:	NJC
REVIEWED:	CLR
SHEET TITLE SCHEDULE - EAST RAIL VERTS - NOR	

DESIGNED:

RUN
SHEET NUMBER

A06.14

<u>ID</u>	<u>P01V</u>	<u>L01</u>	A01	<u> </u>	A02	<u>L03</u>	UTI LTOT	ANV	H03V	H04V
ES1B ES2B	4'-1 1/4" 4'-1 1/8"	1'-2 5/8" 1'-3 3/8"	161.960° 161.918°	3'-2 3/4" 3'-2 3/8"			4'-5 3/8" 4'-5 3/4"	4'-4 3/4" 4'-4 7/8"	5'-2 3/8" 5'-2 3/4"	7'-0 3/4' 7'-1 1/4'
ES3B ES4B	4'-1 1/8" 4'-1"	1'-4 1/8" 1'-5"	161.875° 161.830°	3'-2 1/8" 3'-1 3/4"			4'-6 1/4" 4'-6 3/4"	4'-5" 4'-5 1/8"	5'-3 1/4" 5'-3 3/4"	7'-1 1/4 7'-1 3/4' 7'-2 1/4'
ES5B ES6B ES7B	4'-0 7/8" 4'-0 3/4" 4'-0 5/8"	1'-5 3/4" 1'-6 5/8" 1'-7 1/2"	161.784° 161.735° 161.684°	3'-1 1/2" 3'-1 1/8" 3'-0 7/8"			4'-7 1/4" 4'-7 3/4" 4'-8 1/4"	4'-5 1/4" 4'-5 3/8" 4'-5 1/2"	5'-4 1/4" 5'-4 3/4" 5'-5 1/4"	7'-2 3/4' 7'-3 1/4' 7'-3 5/8'
ES8B ES9B	4'-0 1/2" 4'-0 1/4"	1'-8 3/8" 1'-9 1/4"	161.632° 161.577°	3'-0 1/2" 3'-0 1/4"			4-6 1/4 4'-8 7/8" 4'-9 1/2"	4-5 1/2 4'-5 3/4" 4'-5 7/8"	5'-5 5/8" 5'-6 1/8"	7'-4 1/8' 7'-4 5/8'
ES10B ES11B	4'-0" 3'-11 7/8"	1'-10 1/8" 1'-11 1/8"	161.521° 161.462°	2'-11 7/8" 2'-11 1/2"			4'-10" 4'-10 5/8"	4'-6" 4'-6 1/8"	5'-6 5/8" 5'-7 1/8"	7'-5 1/8' 7'-5 1/2'
ES12B ES13B ES14B	3'-11 1/2" 3'-11 1/4" 3'-11"	2'-0 1/8" 2'-1 1/8" 2'-2 1/8"	161.401° 161.338° 161.273°	2'-11 1/4" 2'-10 7/8" 2'-10 5/8"			4'-11 3/8" 5'-0" 5'-0 3/4"	4'-6 1/4" 4'-6 3/8" 4'-6 1/2"	5'-7 1/2" 5'-8" 5'-8 1/2"	7'-6' 7'-6 1/2' 7'-7'
ES15B ES16B	3'-10 5/8" 3'-10 1/4"	2'-3 1/8" 2'-4 1/4"	161.205° 161.135°	2'-10 3/8 2'-10 1/4" 2'-9 7/8"			5'-1 3/8" 5'-2 1/8"	4'-6 5/8" 4'-6 3/4"	5'-9" 5'-9 3/8"	7'-7 3/8' 7'-7 7/8'
ES17B ES18B	3'-9 7/8" 3'-9 1/2"	2'-5 1/4" 2'-6 3/8"	161.062° 160.987°	2'-9 5/8" 2'-9 1/4"			5'-2 7/8" 5'-3 5/8"	4'-7" 4'-7 1/8"	5'-9 7/8" 5'-10 3/8"	7'-8 3/8' 7'-8 3/4'
ES19B ES20B ES21B	3'-9 1/8" 3'-8 5/8" 3'-8 1/8"	2'-7 1/2" 2'-8 5/8" 2'-9 7/8"	160.909° 160.828° 160.744°	2'-9" 2'-8 5/8" 2'-8 1/4"			5'-4 1/2" 5'-5 1/4" 5'-6 1/8"	4'-7 1/4" 4'-7 3/8" 4'-7 1/2"	5'-10 3/4" 5'-11 1/4" 5'-11 5/8"	7'-9 1/4' 7'-9 3/4' 7'-10 1/8'
ES22B ES23B	3'-7 5/8" 3'-7 1/8"	2'-11" 3'-0 1/4"	160.657° 160.568°	2'-8" 2'-7 5/8"			5'-7" 5'-7 7/8"	4'-7 5/8" 4'-7 3/4"	6'-0 1/8" 6'-0 5/8"	7'-10 1/8 7'-10 5/8' 7'-11'
ES24B ES25B	3'-6 5/8" 3'-6"	3'-1 1/2" 3'-2 3/4"	160.475° 160.379°	2'-7 1/4" 2'-7"			5'-8 3/4" 5'-9 3/4"	4'-7 7/8" 4'-8"	6'-1" 6'-1 1/2"	7'-11 1/2' 8'-0'
ES26B ES27B ES28B	3'-5 1/2" 3'-4 7/8" 3'-4 1/4"	3'-4 1/8" 3'-5 3/8" 3'-6 3/4"	160.278° 160.175° 160.068°	2'-6 5/8" 2'-6 1/4" 2'-5 7/8"			5'-10 3/4" 5'-11 5/8" 6'-0 5/8"	4'-8 1/8" 4'-8 3/8" 4'-8 1/2"	6'-1 7/8" 6'-2 3/8" 6'-2 3/4"	8'-0 3/8' 8'-0 7/8' 8'-1 1/4'
ES29B ES30B	3'-3 5/8" 3'-2 7/8"	3'-8 1/8" 3'-9 1/2"	159.957° 159.842°	2'-5 5/8" 2'-5 1/4"			6'-1 5/8" 6'-2 3/4"	4'-8 5/8" 4'-8 3/4"	6'-3 1/4" 6'-3 5/8"	8'-1 3/4' 8'-2 1/8'
ES31B ES32B	3'-2 1/4" 3'-1 1/2"	3'-10 7/8" 4'-0 3/8"	159.723° 159.599°	2'-4 7/8" 2'-4 1/2"			6'-3 3/4" 6'-4 7/8"	4'-8 7/8" 4'-9"	6'-4 1/8" 6'-4 1/2"	8'-2 5/8' 8'-3'
ES33B ES34B ES35B	3'-0 3/4" 3'-0" 2'-11 1/8"	4'-1 3/4" 4'-3 1/4" 4'-4 3/4"	159.471° 159.339° 159.201°	2'-4 1/4" 2'-3 7/8" 2'-3 1/2"			6'-6" 6'-7 1/8" 6'-8 1/4"	4'-9 1/8" 4'-9 1/4" 4'-9 3/8"	6'-5" 6'-5 3/8" 6'-5 7/8"	8'-3 1/2' 8'-3 7/8' 8'-4 3/8'
ES36B ES37B	2'-10 3/8" 2'-9 1/2"	4'-6 1/4" 4'-7 7/8"	159.058° 158.911°	2'-3 1/8" 2'-2 3/4"			6'-9 1/2" 6'-10 5/8"	4'-9 1/2" 4'-9 3/4"	6'-6 1/4" 6'-6 3/4"	8'-4 3/4' 8'-5 1/8'
ES38B ES39B	2'-8 5/8" 2'-7 3/4"	4'-9 3/8" 4'-11"	158.757° 158.598°	2'-2 1/2" 2'-2 1/8"			6'-11 7/8" 7'-1 1/8"	4'-9 7/8" 4'-10"	6'-7 1/8" 6'-7 1/2"	8'-5 5/8' 8'-6'
ES40B ES41B ES42B	2'-6 7/8" 2'-5 7/8" 2'-5"	5'-0 5/8" 5'-2 1/4" 5'-3 7/8"	158.433° 158.261° 158.084°	2'-1 3/4" 2'-1 3/8" 2'-1"			7'-2 3/8" 7'-3 5/8" 7'-5"	4'-10 1/8" 4'-10 1/4" 4'-10 3/8"	6'-8" 6'-8 3/8" 6'-8 3/4"	8'-6 1/2' 8'-6 7/8' 8'-7 1/4'
ES43B ES44B	2'-4" 2'-3"	5'-5 5/8" 5'-7 3/8"	157.899° 157.706°	2'-0 5/8" 2'-0 3/8"			7'-6 1/4" 7'-7 5/8"	4'-10 5/8" 4'-10 5/8"	6'-9 1/4" 6'-9 5/8"	8'-7 3/4' 8'-8 1/8'
ES45B ES46B	2'-1 7/8" 2'-0 7/8"	5'-9 1/8" 5'-10 7/8"	157.507° 157.299°	2'-0" 1'-11 5/8"	AFT 55	A1 4 4 = 000	7'-9" 7'-10 1/2"	4'-10 3/4" 4'-10 7/8"	6'-10" 6'-10 3/8"	8'-8 1/2' 8'-9'
ES47C	1'-0 3/8"	1'-9 1/8"	126.454°	5'-11 3/8"	157.223°	1'-11 3/8"	9'-7 7/8"	4'-11 1/8"	6'-10 7/8"	8'-9 3/8'
ES48C	1'-0 1/2"	1'-9 1/2"	127.836°	5'-11 1/8"	157.208°	1'-11 1/4"	9'-7 7/8"	4'-11 1/4"	6'-11 1/4"	8'-9 3/4'
ES49C	1'-0 5/8"	1'-9 7/8"	129.144°	5'-10 7/8"	157.194°	1'-11"	9'-7 3/4"	4'-11 3/8"	6'-11 5/8"	8'-10 1/8'
ES50C	1'-0 3/4"	1'-10 3/8"	130.384°	5'-10 5/8"	157.180°	1'-10 7/8"	9'-7 3/4"	4'-11 5/8"	7'-0"	8'-10 5/8'
ES51C	1'-0 7/8"	1'-10 3/4"	131.560°	5'-10 3/8"	157.166°	1'-10 3/4"	9'-7 3/4"	4'-11 3/4"	7'-0 1/2"	8'-11'
ES52C	1'-1"	1'-11 1/8"	132.675°	5'-10 1/8"	157.151°	1'-10 5/8"	9'-7 3/4"	4'-11 7/8"	7'-0 7/8"	8'-11 3/8'
ES53C	1'-1 1/8"	1'-11 1/2"	133.730°	5'-9 7/8"	157.136°	1'-10 3/8"	9'-7 3/4"	5'-0"	7'-1 1/4"	8'-11 3/4'
ES54C	1'-1 1/4"	1'-11 7/8"	134.730°	5'-9 5/8"	157.121°	1'-10 1/4"	9'-7 7/8"	5'-0 1/4"	7'-1 5/8"	9'-0 1/8'
ES55C	1'-1 1/4"	2'-0 3/8"	135.678°	5'-9 1/2"	157.106°	1'-10 1/8"	9'-7 7/8"	5'-0 3/8"	7'-2"	9'-0 5/8'
ES56C	1'-1 3/8"	2'-0 3/4"	136.579°	5'-9 1/4"	157.090°	1'-9 7/8"	9'-7 7/8"	5'-0 1/2"	7'-2 1/2"	9'-1'
ES57C	1'-1 1/2"	2'-1 1/8"	137.433°	5'-9"	157.076°	1'-9 3/4"	9'-8"	5'-0 3/4"	7'-2 7/8"	9'-1 3/8'
ES58C	1'-1 5/8"	2'-1 1/2"	138.242°	5'-8 7/8"	157.060°	1'-9 5/8"	9'-8"	5'-0 7/8"	7'-3 1/4"	9'-1 3/4'
ES59C	1'-1 3/4"	2'-1 7/8" 2'-2 1/4"	139.011°	5'-8 3/4"	157.044°	1'-9 1/2"	9'-8 1/8"	5'-1"	7'-3 5/8"	9'-2 1/8'
ES60C	1'-1 7/8"		139.741°	5'-8 1/2"	157.027°	1'-9 1/4"	9'-8 1/8"	5'-1 1/8"	7'-4"	9'-2 1/2'
ES61C	1'-2"	2'-2 3/4"	140.435°	5'-8 3/8"	157.012°	1'-9 1/8"	9'-8 1/4"	5'-1 1/4"	7'-4 3/8"	9'-2 7/8'
ES62C	1'-2 1/8"	2'-3 1/8"	141.094°	5'-8 1/4"	156.996°	1'-9"	9'-8 3/8"	5'-1 3/8"	7'-4 3/4"	9'-3 3/8'
ES63C	1'-2 1/4"	2'-3 1/2"	141.720°	5'-8 1/8"	156.979°	1'-8 7/8"	9'-8 3/8"	5'-1 1/2"	7'-5 1/8"	9'-3 3/4'
ES64C	1'-2 3/8"	2'-3 3/4"	142.316°	5'-8"	156.963°	1'-8 3/4"	9'-8 1/2"	5'-1 5/8"	7'-5 1/2"	9'-4 1/8'
ES65C	1'-2 1/2"	2'-4 1/8"	142.881°	5'-7 7/8"	156.945°	1'-8 1/2"	9'-8 5/8"	5'-1 3/4"	7'-5 7/8"	9'-4 1/2'
ES66C	1'-2 5/8"	2'-4 1/2"	143.419°	5'-7 3/4"	156.927°	1'-8 3/8"	9'-8 5/8"	5'-1 7/8"	7'-6 1/4"	9'-4 7/8'
ES67C	1'-2 3/4"	2'-4 7/8"	143.930°	5'-7 5/8"	156.911°	1'-8 1/4"	9'-8 3/4"	5'-2 1/8"	7'-6 5/8"	9'-5 1/4'
ES68C	1'-2 7/8"	2'-5 1/4"	144.417°	5'-7 5/8"	156.894°	1'-8 1/8"	9'-8 7/8"	5'-2 1/4"	7'-7"	9'-5 5/8'
ES69C	1'-3"	2'-5 1/2"	144.880°	5'-7 1/2"	156.876°	1'-7 7/8"	9'-9"	5'-2 3/8"	7'-7 3/8"	9'-6'
ES70C	1'-3 1/8"	2'-5 7/8"	145.321°	5'-7 1/2"	156.858°	1'-7 3/4"	9'-9 1/8"	5'-2 1/2"	7'-7 3/4"	9'-6 3/8'
ES71C	1'-3 1/4"	2'-6 1/4"	145.740°	5'-7 3/8"	156.841°	1'-7 5/8"	9'-9 1/4"	5'-2 5/8"	7'-8 1/8"	9'-6 3/4'
ES72C	1'-3 3/8"	2'-6 1/2"	146.139°	5'-7 3/8"	156.823°	1'-7 1/2"	9'-9 3/8"	5'-2 3/4"	7'-8 1/2"	9'-7 1/8'
ES73C	1'-3 1/2"	2'-6 7/8"	146.518°	5'-7 1/4"	156.802°	1'-7 3/8"	9'-9 1/2"	5'-2 7/8"	7'-8 7/8"	9'-7 1/2'
ES74C	1'-3 5/8"	2'-7 1/8"	146.878°	5'-7 1/4"	156.785°	1'-7 1/4"	9'-9 1/2"	5'-3"	7'-9 1/4"	9'-7 7/8'
ES75C	1'-3 3/4"	2'-7 3/8"	147.221°	5'-7 1/4"	156.766°	1'-7"	9'-9 5/8"	5'-3 1/8"	7'-9 5/8"	9'-8 1/4'
ES76C	1'-3 3/4"	2'-7 5/8"	147.546°	5'-7 1/4"	156.747°	1'-6 7/8"	9'-9 3/4"	5'-3 1/4"	7'-9 7/8"	9'-8 5/8'
ES77C	1'-3 7/8"	2'-8"	147.855°	5'-7 1/4"	156.728°	1'-6 3/4"	9'-9 7/8"	5'-3 3/8"	7'-10 1/4"	9'-8 7/8'
ES78C	1'-4"	2'-8 1/4"	148.149°	5'-7 1/4"	156.707°	1'-6 5/8"	9'-10"	5'-3 5/8"	7'-10 5/8"	9'-9 1/4'
ES79C	1'-4 1/8"	2'-8 1/2"	148.427°	5'-7 1/4"	156.688°	1'-6 1/2"	9'-10 1/8"	5'-3 3/4"	7'-11"	9'-9 5/8'
ES80C	1'-4 1/4"	2'-8 3/4"	148.690°	5'-7 1/4"	156.668°	1'-6 3/8"	9'-10 1/4"	5'-3 7/8"	7'-11 3/8"	9'-10'
ES81C	1'-4 3/8"	2'-9"	148.941°	5'-7 1/4"	156.648°	1'-6 1/4"	9'-10 3/8"	5'-4"	7'-11 3/4"	9'-10 3/8'
ES82C	1'-4 1/2"	2'-9 1/8"	149.177°	5'-7 1/4"	156.628°	1'-6"	9'-10 1/2"	5'-4 1/8"	8'-0"	9'-10 3/4'
ES83C	1'-4 5/8"	2'-9 3/8"	149.400°	5'-7 3/8"	156.606°	1'-5 7/8"	9'-10 5/8"	5'-4 1/4"	8'-0 3/8"	9'-11 1/8'
ES84C	1'-4 3/4"	2'-9 5/8"	149.612°	5'-7 3/8"	156.586°	1'-5 3/4"	9'-10 3/4"	5'-4 3/8"	8'-0 3/4"	9'-11 3/8'
ES85C ES86C	1'-4 7/8" 1'-5"	2'-9 3/4" 2'-10" 2'-10 1/8"	149.810° 149.998° 150.174°	5'-7 1/2" 5'-7 1/2" 5'-7 5/8"	156.564° 156.544°	1'-5 5/8" 1'-5 1/2" 1'-5 3/8"	9'-10 7/8" 9'-11" 9'-11 1/8"	5'-4 1/2" 5'-4 5/8"	8'-1 1/8" 8'-1 3/8" 8'-1 3/4"	9'-11 3/4' 10'-0 1/8' 10'-0 1/2'
ES87C ES88C ES89C	1'-5 1/8" 1'-5 1/4" 1'-5 3/8"	2'-10 1/8 2'-10 3/8" 2'-10 1/2"	150.174 150.338° 150.492°	5'-7 3/4" 5'-7 7/8"	156.521° 156.499° 156.477°	1'-5 1/4" 1'-5 1/8"	9'-11 1/4" 9'-11 1/2"	5'-4 3/4" 5'-4 7/8" 5'-5"	8'-2 1/8" 8'-2 1/2"	10'-0 1/2 10'-0 7/8' 10'-1 1/8'
ES90C	1'-5 1/2"	2'-10 5/8"	150.634°	5'-8"	156.454°	1'-5"	9'-11 5/8"	5'-5 1/4"	8'-2 3/4"	10'-1 1/2'
ES91C	1'-5 5/8"	2'-10 3/4"	150.768°	5'-8 1/8"	156.432°	1'-4 3/4"	9'-11 3/4"	5'-5 3/8"	8'-3 1/8"	10'-1 7/8'
ES92C	1'-5 3/4"	2'-11"	150.891°	5'-8 1/4"	156.409°	1'-4 5/8"	9'-11 7/8"	5'-5 1/2"	8'-3 1/2"	10'-2 1/8'
ES93C	1'-5 7/8"	2'-11 1/8"	151.005°	5'-8 3/8"	156.384°	1'-4 1/2"	10'-0"	5'-5 5/8"	8'-3 3/4"	10'-2 1/2'
ES94C	1'-6"	2'-11 1/8"	151.109°	5'-8 1/2"	156.362°	1'-4 3/8"	10'-0 1/8"	5'-5 3/4"	8'-4 1/8"	10'-2 7/8'
ES95C	1'-6 1/8"	2'-11 1/4"	151.204°	5'-8 5/8"	156.338°	1'-4 1/4"	10'-0 1/4"	5'-5 7/8"	8'-4 3/8"	10'-3 1/8'
ES96C	1'-6 1/8"	2'-11 3/8"	151.289°	5'-8 7/8"	156.315°	1'-4 1/8"	10'-0 3/8"	5'-6"	8'-4 3/4"	10'-3 1/2'
ES97C	1'-6 1/4"	2'-11 1/2"	151.365°	5'-9"	156.289°	1'-4"	10'-0 1/2"	5'-6 1/8"		10'-3 7/8'
ES98C	1'-6 3/8"	2'-11 1/2"	151.433°	5'-9 1/8"	156.264°	1'-3 7/8"	10'-0 5/8"	5'-6 1/4"		10'-4 1/8'
ES99C	1'-6 1/2"	2'-11 5/8"	151.492°	5'-9 3/8"	156.239°	1'-3 3/4"	10'-0 3/4"	5'-6 3/8"		10'-4 1/2'
ES100C ES101C	1'-6 5/8" 1'-6 3/4"	2'-11 5/8" 2'-11 3/4"	151.542° 151.583°	5'-9 5/8" 5'-9 3/4"	156.215° 156.189°	1'-3 5/8" 1'-3 1/2"	10'-0 3/4 10'-0 7/8" 10'-1"	5'-6 1/2" 5'-6 5/8"	8'-6" 8'-6 3/8"	10'-4 7/8' 10'-5 1/8'
ES102C	1'-6 7/8"	2'-11 3/4"	151.616°	5'-10"	156.162°	1'-3 3/8"	10'-1 1/8"	5'-6 7/8"	8'-6 5/8"	10'-5 1/2'
ES103C	1'-7"	2'-11 3/4"	151.640°	5'-10 1/4"	156.136°	1'-3 1/4"	10'-1 1/4"	5'-7"	8'-7"	10'-5 3/4'
ES104C	1'-7 1/8"	2'-11 3/4"	151.655°	5'-10 1/2"	156.111°	1'-3 1/8"	10'-1 3/8"	5'-7 1/8"	8'-7 1/4"	
ES105C	1'-7 1/4"	2'-11 7/8"	151.662°	5'-10 3/4"	156.084°	1'-3"	10'-1 1/2"	5'-7 1/4"	8'-7 5/8"	
ES106C	1'-7 3/8"	2'-11 7/8"	151.661°	5'-11"	156.057°	1'-2 7/8"	10'-1 5/8"	5'-7 3/8"	8'-7 7/8"	
ES107C	1'-7 1/2"	2'-11 3/4"	151.651°	5'-11 1/4"	156.028°	1'-2 3/4"	10'-1 3/4"	5'-7 1/2"	8'-8 1/4"	
ES108C	1'-7 5/8"	2'-11 3/4"	151.634°	5'-11 1/2"	156.001°	1'-2 5/8"	10'-1 7/8"	5'-7 5/8"	8'-8 1/2"	
ES109C ES110C	1'-7 3/4" 1'-7 7/8"	2'-11 3/4"	151.608° 151.572°	5'-11 3/4" 6'-0 1/8"	155.972° 155.945°	1'-2 1/2" 1'-2 3/8"	10'-2" 10'-2 1/4"	5'-7 3/4" 5'-7 7/8"	8'-8 7/8" 8'-9 1/8"	
ES111C	1'-8"	2'-11 5/8"	151.529°	6'-0 3/8"	155.915°	1'-2 1/4"	10'-2 3/8"	5'-8"	8'-9 3/8"	
ES112C	1'-8 1/8"	2'-11 5/8"	151.475°	6'-0 3/4"	155.887°	1'-2 1/8"	10'-2 1/2"	5'-8 1/8"	8'-9 3/4"	
ES113C	1'-8 1/4"	2'-11 1/2"	151.414°	6'-1"	155.857°	1'-2"	10'-2 5/8"	5'-8 3/8"	8'-10"	
ES114C	1'-8 3/8"	2'-11 1/2"	151.345°	6'-1 3/8"	155.825°	1'-1 7/8"	10'-2 3/4"	5'-8 1/2"	8'-10 3/8"	
ES115C	1'-8 1/2"	2'-11 3/8"	151.266°	6'-1 3/4"	155.797°	1'-1 3/4"	10'-2 7/8"	5'-8 5/8"	8'-10 5/8"	
ES116C	1'-8 1/2"	2'-11 1/4"	151.177°	6'-2"	155.767°	1'-1 5/8"	10'-3"	5'-8 3/4"	8'-10 7/8"	
ES117C	1'-8 5/8"	2'-11 1/8"	151.080°	6'-2 3/8"	155.733°	1'-1 1/2"	10'-3 1/8"	5'-8 7/8"	8'-11 1/8"	
ES118C	1'-8 3/4"	2'-11"	150.974°	6'-2 3/4"	155.702°	1'-1 3/8"	10'-3 1/4"	5'-9"	8'-11 1/2"	
ES119C	1'-8 7/8"	2'-10 7/8"	150.858°	6'-3 1/8"	155.671°	1'-1 1/4"	10'-3 3/8"	5'-9"	8'-11 3/4"	
ES120C	1'-9"	2'-10 3/4"	150.732°	6'-3 1/2"	155.640°	1'-1 1/4"	10'-3 1/2"	5'-9 1/8"	9'-0"	
ES121C	1'-9 1/8"	2'-10 5/8"	150.596°	6'-3 7/8"	155.606°	1'-1 1/8"	10'-3 5/8"	5'-9 1/4"	9'-0 3/8"	
ES122C	1'-9 1/4"	2'-10 1/2"	150.450°	6'-4 3/8"	155.573°	1'-1"	10'-3 3/4"	5'-9 3/8"	9'-0 5/8"	
ES123C	1'-9 3/8"	2'-10 1/4"	150.294°	6'-4 3/4"	155.541°	1'-0 7/8"	10'-3 7/8"	5'-9 1/2"	9'-0 7/8"	
ES124C	1'-9 1/2"	2'-10 1/8"	150.127°	6'-5 1/8"	155.505°	1'-0 3/4"	10'-4"	5'-9 5/8"	9'-1 1/8"	
ES125C	1'-9 5/8"	2'-10"	149.948°	6'-5 5/8"	155.472°	1'-0 5/8"	10'-4 1/8"	5'-9 5/8"	9'-1 1/2"	
ES126C	1'-9 3/4"	2'-9 3/4"	149.758°	6'-6"	155.438°	1'-0 1/2"	10'-4 1/4"	5'-9 3/4"	9'-1 3/4"	
ES127C	1'-9 7/8"	2'-9 1/2"	149.557°	6'-6 1/2"	155.402°	1'-0 3/8"	10'-4 3/8"	5'-9 7/8"	9'-2"	
ES128C	1'-10"	2'-9 3/8"	149.344°	6'-7"	155.366°	1'-0 1/4"	10'-4 5/8"	5'-10"	9'-2 1/4"	
ES129C	1'-10 1/8"	2'-9 1/8"	149.117°	6'-7 3/8"	155.329°	1'-0 1/8"	10'-4 3/4"	5'-10 1/8"	9'-2 1/2"	
ES130C	1'-10 1/4"	2'-8 7/8"	148.878°	6'-7 7/8"	155.295°	1'-0 1/8"	10'-4 7/8"	5'-10 1/8"	9'-2 3/4"	
ES130C	1'-10 1/4"	2'-8 7/8"	148.878°	6'-7 7/8"	155.295°	1'-0 1/8"	10'-4 7/8"	5'-10 1/8"	9'-2 3/4"	
ES131C	1'-10 3/8"	2'-8 5/8"	148.626°	6'-8 3/8"	155.256°	1'-0"	10'-5"	5'-10 1/4"	9'-3"	
ES132C	1'-10 1/2"	2'-8 3/8"	148.359°	6'-8 7/8"	155.219°	0'-11 7/8"	10'-5 1/8"	5'-10 3/8"	9'-3 3/8"	
ES133C	1'-10 5/8"	2'-8 1/8"	148.078°	6'-9 3/8"	155.182°	0'-11 3/4"	10'-5 1/4"	5'-10 1/2"	9'-3 5/8"	
ES134C	1'-10 3/4"	2'-7 7/8"	147.780°	6'-9 7/8"	155.143°	0'-11 5/8"	10'-5 3/8"	5'-10 5/8"	9'-3 7/8"	
ES135C	1'-10 7/8"	2'-7 5/8"	147.468°	6'-10 3/8"	155.105°	0'-11 1/2"	10'-5 1/2"	5'-10 5/8"	9'-4 1/8"	
ES136C	1'-11"	2'-7 3/8"	147.140°	6'-10 7/8"	155.066°	0'-11 1/2"	10'-5 5/8"	5'-10 3/4"	9'-4 3/8"	
ES137C	1'-11"	2'-7"	146.795°	6'-11 1/2"	155.024°	0'-11 3/8"	10'-5 7/8"	5'-10 7/8"	9'-4 5/8"	
ES138C	1'-11 1/8"	2'-6 3/4"	146.431°	7'-0"	154.986°	0'-11 1/4"	10'-6"	5'-11"	9'-4 7/8"	
ES139C	1'-11 1/4"	2'-6 1/2"	146.049°	7'-0 1/2"	154.943°	0'-11 1/8"	10'-6 1/8"	5'-11 1/8"	9'-5 1/8"	
ES140C ES141C	1'-11 3/8" 1'-11 1/2" 1'-11 5/8"	2'-6 1/8" 2'-5 3/4" 2'-5 1/2"	145.648° 145.226°	7'-1 1/8" 7'-1 3/4" 7'-2 1/4"	154.904° 154.863°	0'-11" 0'-10 7/8" 0'-10 7/8"	10'-6 1/4" 10'-6 3/8" 10'-6 5/8"	5'-11 1/8" 5'-11 1/4" 5'-11 3/8"	9'-5 3/8" 9'-5 5/8" 9'-5 7/8"	
ES142C	1'-11 5/8"	2'-5 1/2"	144.783°	7'-2 1/4"	154.819°	0'-10 7/8"	10'-6 5/8"	5'-11 3/8"	9'-5 7/8"	
ES143C	1'-11 3/4"	2'-5 1/8"	144.317°	7'-2 7/8"	154.777°	0'-10 3/4"	10'-6 3/4"	5'-11 1/2"	9'-6 1/8"	
ES144C	1'-11 7/8"	2'-4 3/4"	143.826°	7'-3 1/2"	154.733°	0'-10 5/8"	10'-6 7/8"	5'-11 5/8"	9'-6 3/8"	
ES145C	2'-0"	2'-4 1/2"	143.311°	7'-4 1/8"	154.689°	0'-10 1/2"	10'-7"	5'-11 5/8"	9'-6 5/8"	
ES146C	2'-0 1/8"	2'-4 1/8"	142.771°	7'-4 3/4"	154.647°	0'-10 3/8"	10'-7 1/4"	5'-11 3/4"	9'-6 7/8"	
ES147C ES148C ES149C	2'-0 1/4" 2'-0 3/8" 2'-0 1/2"	2'-3 3/4" 2'-3 3/8" 2'-3"	141.603°	7'-6"	154.602° 154.555° 154.509°	0'-10 3/8" 0'-10 1/4" 0'-10 1/8"	10'-7 3/8" 10'-7 5/8" 10'-7 3/4"	5'-11 7/8" 6'-0" 6'-0 1/8"	9'-7 1/8" 9'-7 3/8" 9'-7 1/2"	
ES149C	2'-0 1/2"	2'-3"	140.975°	7'-6 5/8"	154.509°	0'-10 1/8"	10'-7 3/4"	6'-0 1/8"	9'-7 1/2"	
ES150C	2'-0 5/8"	2'-2 5/8"	140.313°	7'-7 1/4"	154.461°	0'-10"	10'-7 7/8"	6'-0 1/8"	9'-7 3/4"	
ES151C	2'-0 3/4"	2'-2 1/4"	139.617°	7'-7 7/8"	154.413°	0'-10"	10'-8 1/8"	6'-0 1/4"	9'-8"	
ES152C	2'-0 7/8"	2'-1 7/8"	138.883°	7'-8 5/8"	154.367°	0'-9 7/8"	10'-8 1/4"	6'-0 3/8"	9'-8 1/4"	
ES153C	2'-1"	2'-1 1/2"	138.113°	7'-9 1/4"	154.318°	0'-9 3/4"	10'-8 1/2"	6'-0 1/2"	9'-8 1/2"	
ES154C ES155C	2'-1 1/8" 2'-1 1/4" 2'-1 3/8"	2'-1 1/8" 2'-0 5/8" 2'-0 1/4"	137.299° 136.445° 135.541°	7'-10" 7'-10 5/8" 7'-11 3/8"	154.268° 154.218° 154.168°	0'-9 5/8" 0'-9 5/8" 0'-9 1/2"	10'-8 3/4" 10'-8 7/8" 10'-9 1/8"	6'-0 5/8" 6'-0 5/8" 6'-0 3/4"	9'-8 3/4" 9'-8 7/8" 9'-9 1/8"	
ES156C	2'-1 3/8"	2'-0 1/4"	135.541°	7'-11 3/8"	154.168°	0'-9 1/2"	10'-9 1/8"	6'-0 3/4"	9'-9 1/8"	
ES157C	2'-1 3/8"	1'-11 7/8"	134.589°	8'-0 1/8"	154.120°	0'-9 3/8"	10'-9 3/8"	6'-0 7/8"	9'-9 3/8"	
ES158C	2'-1 1/2"	1'-11 1/2"	133.588°	8'-0 7/8"	154.070°	0'-9 1/4"	10'-9 5/8"	6'-1"	9'-9 5/8"	
ES159C	2'-1 5/8"	1'-11 1/8"	132.530°	8'-1 1/2"	154.017°	0'-9 1/4"	10'-9 7/8"	6'-1 1/8"	9'-9 7/8"	
ES160C	2'-1 3/4"	1'-10 5/8"	131.417°	8'-2 1/4"	153.962°	0'-9 1/8"	10'-10 1/8"	6'-1 1/8"	9'-10"	
ES161C	2'-1 7/8"	1'-10 1/4"	130.241°	8'-3"	153.911°	0'-9"	10'-10 3/8"	6'-1 1/4"	9'-10 1/4"	
ES162C	2'-2"	1'-9 7/8"	129.000°	8'-3 3/4"	153.858°	0'-9"	10'-10 5/8"	6'-1 3/8"	9'-10 1/2"	
ES163C	2'-2 1/8"	1'-9 1/2"	127.692°	8'-4 5/8"	153.798°	0'-8 7/8"	10'-10 7/8"	6'-1 1/2"	9'-10 5/8"	
ES164C	2'-2 1/8" 2'-2 1/4" 2'-2 1/4"	1'-9 1/2" 1'-9 1/2" 1'-9 3/4"	127.692° 127.755° 128.740°	8'-4 5/8" 8'-4 3/4" 8'-4 1/2"	153.798° 153.747° 153.690°	0'-8 7/8" 0'-8 3/4" 0'-8 3/4"	10'-10 7/8" 10'-11" 10'-11"	6'-1 1/2" 6'-1 5/8" 6'-1 5/8"	9'-10 5/8" 9'-10 7/8" 9'-11 1/8"	
ES165C									9'-11 1/4"	

						30	UII	HR	UIV	
<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u>A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	ANV	<u>H03V</u>	<u>H</u>
ES170C	2'-2 1/4"	1'-11 1/4"	133.176°	8'-3 1/2"	153.397°	0'-8 1/4"	10'-11 1/8"	6'-2 1/8"	10'-0 1/8"	
ES171C	2'-2 1/4"	1'-11 5/8"	133.972°	8'-3 1/4"	153.339°	0'-8 1/4"	10'-11 1/8"	6'-2 1/4"	10'-0 1/4"	
ES172C	2'-2 1/8"	1'-11 7/8"	134.741°	8'-3 1/8"	153.278°	0'-8 1/8"	10'-11 1/8"	6'-2 1/4"	10'-0 1/2"	
ES173C	2'-2 1/8"	2'-0 1/4"	135.486°	8'-2 7/8"	153.214°	0'-8"	10'-11 1/8"	6'-2 3/8"	10'-0 3/4"	
ES174C	2'-2 1/8"	2'-0 5/8"	136.204°	8'-2 5/8"	153.155°	0'-8"	10'-11 1/8"	6'-2 1/2"	10'-0 7/8"	
ES175C	2'-2 1/8"	2'-0 7/8"	136.900°	8'-2 1/2"	153.090°	0'-7 7/8"	10'-11 1/4"	6'-2 1/2"	10'-1 1/8"	
ES176C ES177C	2'-2 1/8" 2'-2 1/8"	2'-1 1/4" 2'-1 1/2"	137.572° 138.219°	8'-2 1/4" 8'-2"	153.029° 152.962°	0'-7 3/4" 0'-7 3/4"	10'-11 1/4" 10'-11 1/4"	6'-2 5/8" 6'-2 3/4"	10'-1 1/4" 10'-1 1/2"	
ES178C	2'-2 1/8"	2'-1 7/8"	138.847°	8'-1 7/8"	152.896°	0'-7 5/8"	10'-11 3/8"	6'-2 3/4"	10'-1 5/8"	
ES179C	2'-2 1/8"	2'-2 1/8"	139.452°	8'-1 5/8"	152.831°	0'-7 5/8"	10'-11 3/8"	6'-2 7/8"	10'-1 7/8"	
ES180C	2'-2 1/8"	2'-2 1/2"	140.040°	8'-1 1/2"	152.763°	0'-7 1/2"	10'-11 1/2"	6'-2 7/8"	10'-2"	
ES181C	2'-2 1/8"	2'-2 3/4"	140.607°	8'-1 1/4"	152.697°	0'-7 3/8"	10'-11 1/2"	6'-3"	10'-2 1/4"	
ES182C	2'-2 1/8"	2'-3 1/8"	141.156°	8'-1 1/8"	152.627°	0'-7 3/8"	10'-11 1/2"	6'-3"	10'-2 3/8"	
ES183C	2'-2 1/8"	2'-3 3/8"	141.687°	8'-0 7/8"	152.559°	0'-7 1/4"	10'-11 5/8"	6'-3"	10'-2 1/2"	
ES184C	2'-2 1/8"	2'-3 3/4"	142.202°	8'-0 3/4"	152.488°	0'-7 1/4"	10'-11 5/8"	6'-3 1/8"	10'-2 3/4"	
ES185C	2'-2 1/8"	2'-4"	142.699°	8'-0 1/2"	152.418°	0'-7 1/8"	10'-11 3/4"	6'-3 1/8"	10'-2 7/8"	-
ES186C	2'-2 1/8"	2'-4 3/8"	143.183°	8'-0 3/8"	152.345°	0'-7 1/8"	10'-11 3/4"	6'-3 1/4"	10'-3 1/8"	
ES187C	2'-2 1/8"	2'-4 5/8"	143.650°	8'-0 1/8"	152.273°	0'-7"	10'-11 7/8"	6'-3 1/4"	10'-3 1/4"	
ES188C	2'-2 1/8"	2'-5"	144.102°	8'-0"	152.198°	0'-6 7/8"	10'-11 7/8"	6'-3 3/8"	10'-3 3/8"	-
ES189C	2'-2 1/8"	2'-5 1/4"	144.541°	7'-11 7/8"	152.124°	0'-6 7/8"	10'-11 7/8"	6'-3 3/8"	10'-3 5/8"	
ES190C	2'-2 1/8"	2'-5 5/8"	144.967°	7'-11 5/8"	152.052°	0'-6 3/4"	11'-0"	6'-3 3/8"	10'-3 3/4"	
ES191C	2'-2 1/8"	2'-5 7/8"	145.379°	7'-11 1/2"	151.976°	0'-6 3/4"	11'-0 1/8"	6'-3 1/2"	10'-3 7/8"	
ES192C	2'-2 1/8"	2'-6 1/4"	145.779°	7'-11 1/4"	151.898°	0'-6 5/8"	11'-0 1/4"	6'-3 1/2"	10'-4 1/8"	-
ES193C	2'-2 1/8"	2'-6 1/2"	146.166°	7'-11 1/8"	151.820°	0'-6 5/8"	11'-0 1/4"	6'-3 5/8"	10'-4 1/4"	
ES194C	2'-2 1/8"	2'-6 7/8"	146.544°	7'-11"	151.745°	0'-6 1/2"	11'-0 3/8"	6'-3 5/8"	10'-4 3/8"	
ES194C ES195C ES196C	2'-2 1/8" 2'-2 1/8" 2'-2 1/8"	2'-7 1/8" 2'-7 3/8"	146.909° 147.264°	7'-10 3/4" 7'-10 5/8"	151.666° 151.583°	0'-6 1/2" 0'-6 3/8"	11'-0 3/8" 11'-0 1/2"	6'-3 3/4" 6'-3 3/4"	10'-4 3/8 10'-4 1/2" 10'-4 3/4"	-
ES197C ES198C	2'-2 1/8" 2'-2 1/8"	2'-7 3/4"	147.607° 147.942°	7'-10 1/2" 7'-10 3/8"	151.507° 151.423°	0'-6 3/8" 0'-6 1/4"	11'-0 1/2" 11'-0 5/8"	6'-3 3/4" 6'-3 7/8"	10'-4 7/8" 10'-5"	
ES199C	2'-2 1/8"	2'-8 3/8"	148.267°	7'-10 1/8"	151.345°	0'-6 1/4"	11'-0 3/4"	6'-3 7/8"	10'-5 1/8"	-
ES200C	2'-2 1/8"	2'-8 5/8"	148.583°	7'-10"	151.259°	0'-6 1/8"	11'-0 3/4"	6'-4"	10'-5 3/8"	
ES201C	2'-2 1/8"	2'-8 7/8"	148.889°	7'-9 7/8"	151.174°	0'-6 1/8"	11'-0 7/8"	6'-4"	10'-5 1/2"	
ES202C	2'-2 1/8"	2'-9 1/8"	149.185°	7'-9 3/4"	151.091°	0'-6"	11'-0 7/8"	6'-4"	10'-5 5/8"	-
ES203C	2'-2 1/8"	2'-9 1/2"	149.475°	7'-9 1/2"	151.005°	0'-6"	11'-1"	6'-4 1/8"	10'-5 3/4"	
ES204C	2'-2 1/8"	2'-9 3/4"	149.756°	7'-9 3/8"	150.920°	0'-5 7/8"	11'-1"	6'-4 1/8"	10'-5 7/8"	
ES205C	2'-2 1/8"	2'-10"	150.030°	7'-9 1/4"	150.837°	0'-5 7/8"	11'-1 1/8"	6'-4 1/4"	10'-6"	
ES206C	2'-2 1/8"	2'-10 1/4"	150.296°	7'-9 1/8"	150.745°	0'-5 3/4"	11'-1 1/4"	6'-4 1/4"	10'-6 1/8"	_
ES207C	2'-2 1/8"	2'-10 5/8"	150.553°	7'-9"	150.661°	0'-5 3/4"	11'-1 1/4"	6'-4 3/8"	10'-6 1/4"	
ES208C	2'-2 1/8"	2'-10 7/8"	150.806°	7'-8 3/4"	150.566°	0'-5 5/8"	11'-1 3/8"	6'-4 3/8"	10'-6 1/2"	
ES209C ES210C	2'-2 1/8" 2'-2 1/8"	2'-11 1/8" 2'-11 3/8"	151.050° 151.288°	7'-8 5/8" 7'-8 1/2"	150.384°	0'-5 5/8" 0'-5 5/8"	11'-1 3/8" 11'-1 1/2"	6'-4 3/8" 6'-4 1/2"	10'-6 5/8" 10'-6 3/4"	
ES211C	2'-2 1/8"	2'-11 5/8"	151.520°	7'-8 3/8"	150.297°	0'-5 1/2"	11'-1 1/2"	6'-4 1/2"	10'-6 7/8"	
ES212C	2'-2 1/8"	2'-11 7/8"	151.744°	7'-8 1/4"	150.205°	0'-5 1/2"	11'-1 5/8"	6'-4 5/8"	10'-7"	
ES213C	2'-2 1/8"	3'-0 1/8"	151.963°	7'-8 1/8"	150.109°	0'-5 3/8"	11'-1 3/4"	6'-4 5/8"	10'-7 1/8"	
ES214C	2'-2 1/8"	3'-0 3/8"	152.177°	7'-8"	150.022°	0'-5 3/8"	11'-1 3/4"	6'-4 3/4"	10'-7 1/4"	
ES215C	2'-2 1/8"	3'-0 5/8"	152.384°	7'-7 7/8"	149.925°	0'-5 3/8"	11'-1 7/8"	6'-4 3/4"	10'-7 3/8"	
ES216C ES216C ES217C	2'-2 1/8" 2'-2 1/8"	3'-0 7/8" 3'-1 1/8"	152.586° 152.782°	7'-7 7/6 7'-7 3/4" 7'-7 5/8"	149.837° 149.738°	0'-5 1/4" 0'-5 1/4"	11'-1 7/8" 11'-2"	6'-4 3/4" 6'-4 7/8"	10-7 5/8 10'-7 1/2" 10'-7 5/8"	_
ES218C	2'-2 1/8"	3'-1 3/8"	152.974°	7'-7 1/2"	149.641°	0'-5 1/8"	11'-2"	6'-4 7/8"	10'-7 3/4"	
ES219C	2'-2 1/8"	3'-1 5/8"	153.160°	7'-7 3/8"	149.548°	0'-5 1/8"	11'-2 1/8"	6'-5"	10'-7 7/8"	
ES220C ES221C	2'-2 1/8"	3'-1 7/8" 3'-2 1/8"	153.341° 153.519°	7'-7 1/4" 7'-7 1/8"	149.450° 149.355°	0'-5 1/8" 0'-5"	11'-2 1/8" 11'-2 1/4"	6'-5" 6'-5 1/8"	10'-8" 10'-8"	
ES222C	2'-2 1/8"	3'-2 3/8"	153.690°	7'-7"	149.255°	0'-5"	11'-2 1/4"	6'-5 1/8"	10'-8 1/8"	
ES223C	2'-2 1/8"	3'-2 5/8"	153.857°	7'-6 7/8"	149.159°	0'-4 7/8"	11'-2 3/8"	6'-5 1/8"	10'-8 1/4"	
ES224C	2'-2 1/8"	3'-2 3/4"	154.020°	7'-6 3/4"	149.058°	0'-4 7/8"	11'-2 1/2"	6'-5 1/4"	10'-8 3/8"	
ES225C	2'-2 1/8"	3'-3"	154.179°	7'-6 5/8"	148.953°	0'-4 7/8"	11'-2 1/2"	6'-5 1/4"	10'-8 1/2"	_
ES226C	2'-2 1/8"	3'-3 1/4"	154.334°	7'-6 1/2"	148.859°	0'-4 3/4"	11'-2 5/8"	6'-5 3/8"	10'-8 5/8"	
ES227C ES228C	2'-2 1/8"	3'-3 1/2" 3'-3 5/8"	154.483° 154.631°	7'-6 3/8" 7'-6 1/4"	148.753° 148.665°	0'-4 3/4" 0'-4 3/4"	11'-2 5/8" 11'-2 3/4"	6'-5 3/8" 6'-5 3/8"	10'-8 3/4" 10'-8 3/4"	
ES229C	2'-2 1/8"	3'-3 7/8"	154.773°	7'-6 1/4"	148.558°	0'-4 5/8"	11'-2 3/4"	6'-5 1/2"	10'-8 7/8"	
ES230C	2'-2 1/8"	3'-4 1/8"	154.912°	7'-6 1/8"	148.454°	0'-4 5/8"	11'-2 3/4"	6'-5 1/2"	10'-9"	
ES231C	2'-2 1/8"	3'-4 1/4"	155.047°	7'-6"	148.353°	0'-4 5/8"	11'-2 7/8"	6'-5 5/8"	10'-9 1/8"	
ES232C	2'-2 1/8"	3'-4 1/2"	155.178°	7'-5 7/8"	148.256°	0'-4 1/2"	11'-2 7/8"	6'-5 5/8"	10'-9 1/4"	
ES233C	2'-2 1/8"	3'-4 3/4"	155.306°	7'-5 3/4"	148.155°	0'-4 1/2"	11'-3"	6'-5 3/4"	10'-9 1/4"	
ES234C	2'-2 1/8"	3'-4 7/8"	155.431°	7'-5 5/8"	148.050°	0'-4 1/2"	11'-3"	6'-5 3/4"	10'-9 3/8"	_
ES235C	2'-2 1/8"	3'-5 1/8"	155.552°	7'-5 5/8"	147.948°	0'-4 3/8"	11'-3 1/8"	6'-5 3/4"	10'-9 1/2"	
ES236C	2'-2 1/8"	3'-5 1/4"	155.670°	7'-5 1/2"	147.850°	0'-4 3/8"	11'-3 1/8"	6'-5 7/8"	10'-9 5/8"	_
ES237C	2'-2 1/8"	3'-5 1/2"	155.784°	7'-5 3/8"	147.748°	0'-4 3/8"	11'-3 1/4"	6'-5 7/8"	10'-9 5/8"	
ES238C	2'-2 1/8"	3'-5 5/8"	155.896°	7'-5 1/4"	147.650°	0'-4 3/8"	11'-3 1/4"	6'-5 7/8"	10'-9 3/4"	
ES239C ES240C	2'-2 1/8" 2'-2 1/8"	3'-5 3/4" 3'-6"	156.005° 156.110°	7'-5 1/4" 7'-5 1/4" 7'-5 1/8"	147.547° 147.441°	0'-4 1/4" 0'-4 1/4"	11'-3 3/8" 11'-3 3/8"	6'-6" 6'-6"	10'-9 7/8" 10'-9 7/8"	
ES241C	2'-2 1/8"	3'-6 1/8"	156.213°	7'-5"	147.347°	0'-4 1/4"	11'-3 3/8"	6'-6"	10'-10"	
ES242C	2'-2 1/8"	3'-6 3/8"	156.312°	7'-5"	147.249°	0'-4 1/4"	11'-3 1/2"	6'-6"	10'-10 1/8"	
ES243C ES244C	2'-2 1/8" 2'-2 1/8" 2'-2 1/8"	3'-6 1/2" 3'-6 5/8" 3'-6 3/4"	156.409° 156.503°	7'-4 7/8" 7'-4 3/4" 7'-4 3/4"	147.138° 147.050° 146.948°	0'-4 1/8" 0'-4 1/8" 0'-4 1/8"	11'-3 1/2" 11'-3 5/8" 11'-3 5/8"	6'-6" 6'-6"	10'-10 1/8" 10'-10 1/4"	
ES245C ES246C ES247C	2'-2 1/8" 2'-2 1/8"	3'-7" 3'-7 1/8"	156.595° 156.684° 156.769°	7'-4 5/8" 7'-4 5/8"	146.851° 146.750°	0'-4 1/8"	11'-3 5/8" 11'-3 3/4"	6'-6 1/8" 6'-6 1/8" 6'-6 1/8"	10'-10 1/4" 10'-10 3/8" 10'-10 3/8"	
ES248C	2'-2 1/8"	3'-7 1/4"	156.853°	7'-4 1/2"	146.654°	0'-4"	11'-3 3/4"	6'-6 1/8"	10'-10 1/2"	
ES249C	2'-2 1/8"	3'-7 3/8"	156.934°	7'-4 3/8"	146.553°	0'-4"	11'-3 3/4"	6'-6 1/8"	10'-10 5/8"	
ES250C	2'-2 1/8"	3'-7 1/2"	157.013°	7'-4 3/8"	146.468°	0'-4"	11'-3 7/8"	6'-6 1/8"	10'-10 5/8"	
ES251C	2'-2 1/8"	3'-7 5/8"	157.089°	7'-4 1/4"	146.368°	0'-3 7/8"	11'-3 7/8"	6'-6 1/4"	10'-10 3/4"	
ES252C	2'-2 1/8"	3'-7 3/4"	157.162°	7'-4 1/4"	146.275°	0'-3 7/8"	11'-3 7/8"	6'-6 1/4"	10'-10 3/4"	
ES253C ES254C	2'-2 1/8" 2'-2 1/8"	3'-7 7/8" 3'-8"	157.102 157.233° 157.303°	7'-4 1/8" 7'-4 1/8"	146.177° 146.084°	0'-3 7/8" 0'-3 7/8"	11'-4" 11'-4"	6'-6 1/4" 6'-6 1/4"	10'-10 7/8" 10'-10 7/8"	
ES255C	2'-2 1/8"	3'-8 1/8"	157.369°	7'-4"	145.998°	0'-3 7/8"	11'-4"	6'-6 1/4"	10'-10 7/8"	
ES256C	2'-2 1/8"	3'-8 1/4"	157.434°	7'-4"	145.907°	0'-3 3/4"	11'-4 1/8"	6'-6 3/8"	10'-11"	
ES257C ES258C	2'-2 1/8" 2'-2 1/8"	3'-8 3/8" 3'-8 1/2"	157.496° 157.556°	7'-3 7/8" 7'-3 7/8" 7'-3 3/4"	145.813° 145.735°	0'-3 3/4" 0'-3 3/4"	11'-4 1/8" 11'-4 1/8"	6'-6 3/8" 6'-6 3/8"	10'-11" 10'-11 1/8"	
ES259C	2'-2 1/8"	3'-8 5/8"	157.614°	7'-3 3/4"	145.652°	0'-3 3/4"	11'-4 1/8"	6'-6 3/8"	10'-11 1/8"	
ES260C	2'-2 1/8"	3'-8 3/4"	157.670°	7'-3 3/4"	145.556°	0'-3 3/4"	11'-4 1/4"	6'-6 3/8"	10'-11 1/4"	
ES261C	2'-2 1/8"	3'-8 7/8"	157.724°	7'-3 3/4"	145.476°	0'-3 3/4"	11'-4 1/4"	6'-6 3/8"	10'-11 1/4"	
ES262C	2'-2 1/8"	3'-9"	157.776°	7'-3 5/8"	145.393°	0'-3 5/8"	11'-4 1/4"	6'-6 1/2"	10'-11 1/4"	
ES263C	2'-2 1/8"	3'-9"	157.825°	7'-3 5/8"	145.316°	0'-3 5/8"	11'-4 1/4"	6'-6 1/2"	10'-11 3/8"	
ES264C	2'-2 1/8"	3'-9 1/8"	157.873°	7'-3 1/2"	145.246°	0'-3 5/8"	11'-4 3/8"	6'-6 1/2"	10'-11 3/8"	
ES265C	2'-2 1/8"	3'-9 1/4"	157.918°	7'-3 1/2"	145.172°	0'-3 5/8"	11'-4 3/8"	6'-6 1/2"	10'-11 3/8"	
ES266C	2'-2 1/8"	3'-9 1/4"	157.962°	7'-3 1/2"	145.083°	0'-3 5/8"	11'-4 3/8"	6'-6 1/2"	10'-11 1/2"	
ES267C ES268C	2'-2 1/8" 2'-2 1/8"	3'-9 3/8" 3'-9 1/2"	158.004° 158.043°	7'-3 3/8" 7'-3 3/8"	145.024° 144.949°	0'-3 5/8" 0'-3 5/8"	11'-4 3/8" 11'-4 3/8"	6'-6 1/2" 6'-6 5/8"	10'-11 1/2" 10'-11 1/2" 10'-11 1/2"	
ES269C	2'-2 1/8"	3'-9 1/2"	158.081°	7'-3 3/8"	144.882°	0'-3 5/8"	11'-4 1/2"	6'-6 5/8"	10'-11 1/2"	
ES270C	2'-2 1/8"	3'-9 5/8"	158.117°	7'-3 1/4"	144.823°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES271C	2'-2 1/8"	3'-9 5/8"	158.151°	7'-3 1/4"	144.748°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES272C	2'-2 1/8"	3'-9 3/4"	158.184°	7'-3 1/4"	144.693°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES273C	2'-2 1/8"	3'-9 3/4"	158.214°	7'-3 1/4"	144.633°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES274C ES275C	2'-2 1/8" 2'-2 1/8"	3'-9 7/8" 3'-9 7/8"	158.242° 158.269°	7'-3 1/8" 7'-3 1/8"	144.571° 144.516°	0'-3 1/2" 0'-3 1/2"	11'-4 1/2" 11'-4 1/2" 11'-4 1/2"	6'-6 3/4" 6'-6 3/4"	10'-11 5/8" 10'-11 3/4"	
ES276C	2'-2 1/8"	3'-10"	158.294°	7'-3 1/8"	144.469°	0'-3 1/2"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES277C	2'-2 1/8"	3'-10"	158.318°	7'-3 1/8"	144.418°	0'-3 1/2"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES278C	2'-2 1/8"	3'-10"	158.338°	7'-3 1/8"	144.375°	0'-3 1/2"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES279C	2'-2 1/8"	3'-10 1/8"	158.358°	7'-3 1/8"	144.318°	0'-3 1/2"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES280C	2'-2 1/8"	3'-10 1/8"	158.376°	7'-3"	144.280°	0'-3 1/2"	11'-4 5/8"	6'-6 7/8"	10'-11 3/4"	
ES281C	2'-2 1/8"	3'-10 1/8"	158.392°	7'-3"	144.239°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES282C	2'-2 1/8"	3'-10 1/4"	158.407°	7'-3"	144.206°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES283C	2'-2 1/8"	3'-10 1/4"	158.419°	7'-3"	144.182°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES284C	2'-2 1/8"	3'-10 1/4"	158.430°	7'-3"	144.142°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES285C	2'-2 1/8"	3'-10 1/4"	158.439°	7'-3"	144.111°	0'-3 3/8"	11'-4 5/8"	6'-7"	10'-11 7/8"	
ES286C ES287C	2'-2 1/8" 2'-2 1/8" 2'-2 1/8"	3'-10 1/4" 3'-10 1/4" 3'-10 1/4"	158.447° 158.452°	7'-3" 7'-3"	144.111 144.088° 144.074°	0'-3 3/8" 0'-3 3/8"	11'-4 5/8" 11'-4 5/8" 11'-4 5/8"	6'-7" 6'-7"	10-11 7/8" 10'-11 7/8" 10'-11 7/8"	
ES288C	2'-2 1/8"	3'-10 1/4"	158.456°	7'-3"	144.056°	0'-3 3/8"	11'-4 5/8"	6'-7"	10'-11 7/8"	
ES289C	2'-2 1/8"	3'-10 1/4"	158.458°	7'-3"	144.036°	0'-3 3/8"	11'-4 5/8"	6'-7"	10'-11 7/8"	
ES290C ES291C	2'-2 1/8"	3'-10 1/4" 3'-10 1/4" 3'-10 1/4"	158.459° 158.457°	7'-3" 7'-3"	144.024° 144.020°	0'-3 3/8"	11'-4 5/8" 11'-4 5/8"	6'-7" 6'-7"	10'-11 7/8" 10'-11 7/8"	
ES292C	2'-2 1/8"	3'-10 1/4"	158.455°	7'-3"	144.013°	0'-3 3/8"	11'-4 5/8"	6'-7"	10'-11 7/8"	
ES293C	2'-2 1/8"	3'-10 1/4"	158.450°	7'-3"	144.003°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES294C	2'-2 1/8"	3'-10 1/4"	158.443°	7'-3"	144.002°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES295C	2'-2 1/8"	3'-10 1/4"	158.435°	7'-3"	144.009°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 7/8"	
ES296C	2'-2 1/8"	3'-10 1/4"	158.426°	7'-3"	144.012°	0'-3 3/8"	11'-4 5/8"	6'-6 7/8"	10'-11 3/4"	
ES297C	2'-2 1/8"	3'-10 1/4"	158.414°	7'-3"	144.013°	0'-3 3/8"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES298C	2'-2 1/8"	3'-10 1/8"	158.401°	7'-3"	144.022°	0'-3 3/8"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES299C	2'-2 1/8"	3'-10 1/8"	158.385°	7'-3"	144.040°	0'-3 3/8"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES300C ES301C	2'-2 1/8" 2'-2 1/8" 2'-2 1/8"	3'-10 1/8" 3'-10 1/8"	158.369° 158.351°	7'-3" 7'-3 1/8"	144.066° 144.077°	0'-3 3/8" 0'-3 3/8"	11'-4 5/8" 11'-4 5/8"	6'-6 3/4" 6'-6 3/4"	10'-11 3/4" 10'-11 3/4" 10'-11 3/4"	
ES302C	2'-2"	3'-10"	158.330°	7'-3 1/8"	144.096°	0'-3 1/2"	11'-4 5/8"	6'-6 3/4"	10'-11 3/4"	
ES303C	2'-2"	3'-10"	158.308°	7'-3 1/8"	144.124°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES304C	2'-2"	3'-10"	158.284°	7'-3 1/8"	144.149°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES305C	2'-2"	3'-9 7/8"	158.258°	7'-3 1/8"	144.182°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES306C	2'-2"	3'-9 7/8"	158.231°	7'-3 1/8"	144.223°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 5/8"	
ES307C	2'-2"	3'-9 3/4"	158.202°	7'-3 1/4"	144.260°	0'-3 1/2"	11'-4 1/2"	6'-6 5/8"	10'-11 1/2"	
ES308C	2'-2"	3'-9 3/4"	158.170°	7'-3 1/4"	144.295°	0'-3 1/2"	11'-4 1/2"	6'-6 1/2"	10'-11 1/2"	
ES309C	2'-2"	3'-9 5/8"	158.137°	7'-3 1/4"	144.337°	0'-3 1/2"	11'-4 3/8"	6'-6 1/2"	10'-11 1/2"	
ES310C	2'-2"	3'-9 5/8"	158.102°	7'-3 1/4"	144.376°	0'-3 1/2"	11'-4 3/8"	6'-6 1/2"	10'-11 1/2"	
ES311C ES312C	2'-2" 2'-2" 2'-2"	3'-9 1/2" 3'-9 3/8"	158.066° 158.027°	7'-3 3/8" 7'-3 3/8"	144.434° 144.477°	0'-3 1/2" 0'-3 1/2"	11'-4 3/8" 11'-4 3/8"	6'-6 1/2" 6'-6 1/2"	10'-11 3/8" 10'-11 3/8"	
ES313C	2'-2"	3'-9 3/8"	157.987°	7'-3 3/8"	144.528°	0'-3 1/2"	11'-4 3/8"	6'-6 1/2"	10'-11 3/8"	
ES314C	2'-2"	3'-9 1/4"	157.944°	7'-3 1/2"	144.586°	0'-3 5/8"	11'-4 1/4"	6'-6 3/8"	10'-11 1/4"	
ES315C	2'-2"	3'-9 1/8"	157.899°	7'-3 1/2"	144.641°	0'-3 5/8"	11'-4 1/4"	6'-6 3/8"	10'-11 1/4"	
ES316C	2'-2"	3'-9 1/8"	157.853°	7'-3 1/2"	144.703°	0'-3 5/8"	11'-4 1/4"	6'-6 3/8"	10'-11 1/4"	
ES317C	2'-2"	3'-9"	157.805°	7'-3 5/8"	144.751°	0'-3 5/8"	11'-4 1/4"	6'-6 3/8"	10'-11 1/8"	
ES318C ES319C	2'-2" 2'-2"	3'-8 7/8" 3'-8 3/4" 3'-8 3/4"	157.754° 157.701° 157.647°	7'-3 5/8" 7'-3 3/4" 7'-3 3/4"	144.817° 144.879°	0'-3 5/8" 0'-3 5/8" 0'-3 5/8"	11'-4 1/8" 11'-4 1/8"	6'-6 3/8" 6'-6 1/4" 6'-6 1/4"	10'-11 1/8" 10'-11" 10'-11"	
ES320C	2'-2"	3'-8 3/4"	157.647°	7'-3 3/4"	144.949°	0'-3 5/8"	11'-4 1/8"	6'-6 1/4"	10'-11"	
ES321C	2'-2"	3'-8 5/8"	157.591°	7'-3 3/4"	145.014°	0'-3 3/4"	11'-4 1/8"	6'-6 1/4"	10'-11"	
ES322C	2'-2"	3'-8 1/2"	157.532°	7'-3 7/8"	145.087°	0'-3 3/4"	11'-4"	6'-6 1/4"	10'-10 7/8"	
ES323C	2'-2"	3'-8 3/8"	157.470°	7'-3 7/8"	145.156°	0'-3 3/4"	11'-4"	6'-6 1/4"	10'-10 7/8"	
ES324C	2'-2"	3'-8 1/4"	157.407°	7'-4"	145.231°	0'-3 3/4"	11'-4"	6'-6 1/4"	10'-10 3/4"	
ES325C ES326C	2'-2" 2'-2"	3'-8 1/8" 3'-8"	157.342° 157.274° 157.204°	7'-4" 7'-4 1/8" 7'-4 1/8"	145.303° 145.381° 145.465°	0'-3 3/4" 0'-3 3/4" 0'-3 7/8"	11'-3 7/8" 11'-3 7/8"	6'-6 1/8" 6'-6 1/8"	10'-10 3/4" 10'-10 5/8" 10'-10 5/8"	
ES327C	2'-2"	3'-7 7/8"	157.204°	7'-4 1/8"	145.465°	0'-3 7/8"	11'-3 7/8"	6'-6 1/8"	10'-10 5/8"	
ES328C	2'-2"	3'-7 3/4"	157.132°	7'-4 1/4"	145.545°	0'-3 7/8"	11'-3 3/4"	6'-6 1/8"	10'-10 1/2"	
ES329C	2'-2"	3'-7 5/8"	157.057°	7'-4 1/4"	145.622°	0'-3 7/8"	11'-3 3/4"	6'-6 1/8"	10'-10 1/2"	
ES330C	2'-2"	3'-7 1/2"	156.980°	7'-4 3/8"	145.714°	0'-3 7/8"	11'-3 3/4"	6'-6"	10'-10 3/8"	
ES331C	2'-2"	3'-7 3/8"	156.900°	7'-4 3/8"	145.793°	0'-3 7/8"	11'-3 5/8"	6'-6"	10'-10 1/4"	
ES332C	2'-2" 2'-2"	3'-7 1/8" 3'-7"	156.819° 156.734°	7'-4 1/2" 7'-4 5/8"	145.877° 145.967°	0'-4" 0'-4"	11'-3 5/8" 11'-3 5/8"	6'-6" 6'-6"	10'-10 1/4" 10'-10 1/8"	
ES333C ES334C	2'-2"	3'-6 7/8"	156.646°	7'-4 5/8"	146.044°	0'-4"	11'-3 1/2"	6'-6"	10'-10 1/8"	_

ES339C 2-2" 3'-5 1/8" 156.170° 7'-5" 146.488° 0'-4 1/8" 11'-3 1/4" 6'-5 7/8" 185.340C 2-2" 3'-5 3/4" 155.960° 7'-5 1/4" 146.673° 0'-4 1/4" 11'-3 1/8" 6'-5 3/4" 185.341C 2'-2" 3'-5 3/4" 155.960° 7'-5 1/4" 146.673° 0'-4 1/4" 11'-3 1/8" 6'-5 3/4" 185.341C 2'-2" 3'-5 3/4" 155.960° 7'-5 1/4" 146.673° 0'-4 1/4" 11'-3 1/8" 6'-5 3/4" 185.342C 2'-2" 3'-5 3/8" 155.736° 7'-5 3/8" 146.858° 0'-4 1/4" 11'-3 1/8" 6'-5 3/4" 185.343C 2'-2" 3'-5 3/8" 155.736° 7'-5 3/8" 146.858° 0'-4 1/4" 11'-3" 6'-5 3/4" 185.344C 2'-2" 3'-5 1/8" 155.621° 7'-5 1/2" 146.957° 0'-4 3/8" 11'-3" 6'-5 3/4" 185.346C 2'-2" 3'-5 1/8" 155.379° 7'-5 5/8" 147.053° 0'-4 3/8" 11'-3" 6'-5 3/4" 185.346C 2'-2" 3'-4 3/8" 155.254° 7'-5 3/8" 147.35° 0'-4 3/8" 11'-2 7/8" 6'-5 3/4" 185.346C 2'-2" 3'-4 3/8" 155.254° 7'-5 3/8" 147.339° 0'-4 3/8" 11'-2 7/8" 6'-5 5/8" 185.346C 2'-2" 3'-4 3/8" 155.254° 7'-5 7/8" 147.339° 0'-4 3/8" 11'-2 7/8" 6'-5 5/8" 185.346C 2'-2" 3'-4 3/8" 155.254° 7'-5 7/8" 147.339° 0'-4 3/8" 11'-2 3/4" 6'-5 5/8" 185.349C 2'-2" 3'-4 1/4" 154.990° 7'-6" 147.426° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 185.351C 2'-2" 3'-3 3/4" 154.714" 7'-6 1/4" 147.255° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 185.351C 2'-2" 3'-3 3/4" 154.714" 7'-6 1/4" 147.255° 0'-4 1/2" 11'-2 5/8" 6'-5 5/8" 185.351C 2'-2" 3'-3 3/4" 154.714" 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 5/8" 6'-5 5/8" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.269° 7'-6 1/4" 147.00° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 148.800° 0'-4 3/4" 11'-2 3/8" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 148.800° 0'-4 3/4" 11'-2 3/8" 6'-5 1/2" 185.351C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 148.800° 0'-4 3/4" 11'-2 3/8" 6'-6 1/2" 185.351C 2'-2" 3'-3 1/8" 154.269° 7'-7 1/8" 148.800° 0'-4 5/8" 11'-2 1/8" 6'-5 1/2" 185.351C 2'-2" 3'-3 1/8" 154.269° 7'-7 1/8" 148.800° 0'-	03V H04V 10'-9 5/8" 10'-9 5/8" 10'-9 5/8" 10'-9 1/2" 10'-9 3/8" 10'-9 1/8" 10'-9 1/8" 10'-9 1/8" 10'-9 1/8" 10'-8 1/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 1/2" 10'-8 1/2" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 3/8" 10'-6 3/8" 10'-6 3/8" 10'-6 1/2" 10'-6 3/8" 10'-6 1/2" 10'-5 5/8" 10'-5 1/2" 10'-5 5/8" 10'-5 1/2" 10'-5 5/8" 10'-5 1/2" 10'-5 5/8"
ES340C 2-2" 3-5 7/8" 156.066" 7-5 1/8" 146.678" 0-4 1/4" 11"-3 1/4" 6-5 7/8" 158341C 2-2" 3-5 3/4" 155.960" 7-5 1/4" 146.673" 0-4 1/4" 11"-3 1/8" 6-5 3/4" 158342C 2-2" 3-5 3/8" 155.850" 7-5 1/4" 146.673" 0-4 1/4" 11"-3 1/8" 6-5 3/4" 158343C 2-2" 3-5 3/8" 155.736" 7-5 1/4" 146.673" 0-4 1/4" 11"-3 1/8" 6-5 3/4" 158343C 2-2" 3-5 3/8" 155.736" 7-5 1/2" 146.957" 0-4 3/8" 11"-3" 6-5 3/4" 15344C 2-2" 3-5 1/8" 155.621" 7-5 1/2" 146.957" 0-4 3/8" 11"-3" 6-5 3/4" 15344C 2-2" 3-4 3/4" 155.379" 7-5 5/8" 147.053" 0-4 3/8" 11"-3" 6-5 3/4" 15344C 2-2" 3-4 3/4" 155.379" 7-5 5/8" 147.053" 0-4 3/8" 11"-27/8" 6-5 3/4" 15344C 2-2" 3-4 3/8" 155.254" 7-5 3/4" 147.239" 0-4 3/8" 11"-27/8" 6-5 3/4" 15344C 2-2" 3-4 3/8" 155.123" 7-5 7/8" 147.331" 0-4 1/2" 11"-2 3/4" 6-5 5/8" 15344C 2-2" 3-4 3/8" 155.123" 7-5 7/8" 147.331" 0-4 1/2" 11"-2 3/4" 6-5 5/8" 15354C 2-2" 3-4 1/4" 154.990" 7-6" 147.425" 0-4 3/8" 11"-2 7/8" 6-5 5/8" 15355C 2-2" 3-3 3/8" 154.714" 7-6 1/4" 147.621" 0-4 5/8" 11"-2 5/8" 6-5 5/8" 15355C 2-2" 3-3 3/8" 154.421" 7-6 1/4" 147.712" 0-4 5/8" 11"-2 1/2" 6-5 5/8" 15355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 147.807" 0-4 5/8" 11"-2 1/2" 6-5 5/8" 15355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 147.807" 0-4 3/4" 11"-2 3/8" 6-5 1/2" 15355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 147.800" 0-4 3/4" 11"-2 3/8" 6-5 1/2" 15355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 148.800" 0-4 3/4" 11"-2 1/2" 6-5 5/8" 18355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 148.800" 0-4 3/4" 11"-2 1/2" 6-5 5/8" 18355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 148.800" 0-4 3/4" 11"-2 1/2" 6-5 5/8" 18355C 2-2" 3-3 3/8" 154.421" 7-6 3/8" 148.800" 0-4 3/4" 11"-2 1/2" 6-5 3/8" 154.520" 153.606 2-2" 3-2 3/4" 153.608" 7-7 1/8" 14	0'-9 5/8" 0'-9 1/2" 0'-9 3/8" 0'-9 3/8" 0'-9 3/8" 0'-9 3/8" 0'-9 1/8" 10'-9" 10'-9" 10'-9" 10'-8 7/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-7 7/8" 0'-7 3/8" 0'-7 3/8" 0'-7 1/2" 0'-7 3/8" 0'-7 1/2" 0'-7 3/8" 0'-7 1/8" 0'-7 1/8" 0'-7 1/8" 0'-6 5/8" 0'-6 1/8" 0'-6 1/8" 0'-6 1/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 5/8" 0'-5 1/2" 0'-5 5/8" 0'-5 1/2" 0'-7 1/2" 0'-7 1/2" 0'-7 1/2" 0'-7 1/2" 0'-8 1/2" 0'-8 1/2" 0'-9 1/2
ES342C 2'-2" 3'-5 1/2" 155.850° 7'-5 1/4" 146.763° 0'-4 1/4" 11'-3 1/8" 6'-5 3/4" 1	0'-9 3/8" 0'-9 3/8" 0'-9 1/4" 0'-9 1/8" 10'-9 1/8" 10'-9" 10'-8 7/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-8 3/8" 0'-7 7/8" 0'-7 7/8" 0'-7 7/8" 0'-7 3/4" 0'-7 1/2" 0'-7 1/8" 0'-7 1/8" 0'-7 1/8" 0'-7 1/8" 0'-7 1/8" 0'-6 3/8" 0'-6 1/4" 0'-6 1/4" 0'-6 1/4" 0'-6 1/8" 0'-5 5/8" 0'-5 1/2" 0'-6 1/2" 0'-7 1/2" 0'-7 1/2" 0'-8 1/2" 0'-8 1/2" 0'-9 1/2" 0
ES344C 2'-2" 3'-5 1/8" 155.621° 7'-5 1/2" 146.957° 0'-4 3/8" 11'-3" 6'-5 3/4" 15345C 2'-2" 3'-5" 155.501° 7'-5 5/8" 147.053° 0'-4 3/8" 11'-2 7/8" 6'-5 3/4" 155.379° 7'-5 5/8" 147.135° 0'-4 3/8" 11'-2 7/8" 6'-5 3/4" 155.347C 2'-2" 3'-4 3/8" 155.254° 7'-5 3/4" 147.239° 0'-4 3/8" 11'-2 7/8" 6'-5 5/8" 155.447C 2'-2" 3'-4 3/8" 155.254° 7'-5 3/4" 147.239° 0'-4 3/8" 11'-2 7/8" 6'-5 5/8" 18348C 2'-2" 3'-4 3/8" 155.123° 7'-5 7/8" 147.339° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 18349C 2'-2" 3'-4 1/4" 154.990° 7'-6" 147.426° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 18350C 2'-2" 3'-3 3/4" 154.854° 7'-6 1/8" 147.525° 0'-4 1/2" 11'-2 5/8" 6'-5 5/8" 18351C 2'-2" 3'-3 3/8" 154.714° 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 18353C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.905° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 18355C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 148.000° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 18355C 2'-2" 3'-3 3/8" 154.421° 7'-6 5/8" 148.000° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 18355C 2'-2" 3'-3 3/8" 154.421° 7'-6 5/8" 148.000° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 18355C 2'-2" 3'-3 3/8" 154.421° 153.618° 7'-6 7/8" 148.000° 0'-4 3/4" 11'-2 1/4" 6'-5 1/2" 18355C 2'-2" 3'-2 3/4" 153.535° 7'-6 3/4" 148.000° 0'-4 3/4" 11'-2 1/4" 6'-5 1/2" 18356C 2'-2" 3'-2 3/4" 153.618° 7'-7 7/8" 148.21° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 18356C 2'-2" 3'-2 3/4" 153.618° 7'-7 7/8" 148.281° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 18360C 2'-2" 3'-1 1/4" 153.648° 7'-7 7/8" 148.840° 0'-5" 11'-1 7/8" 6'-5 1/8" 18360C 2'-2" 3'-1 1/4" 153.266° 7'-7 1/4" 148.669° 0'-5" 11'-1 7/8" 6'-5 1/8" 18360C 2'-2" 3'-1 1/4" 152.298° 7'-7 7/8" 148.669° 0'-5" 11'-1 7/8" 6'-5 1/8" 18360C 2'-2" 3'-1 1/4" 152.298° 7'-7 7/8" 148.669° 0'-5" 11'-1 1/8"	10'-9 1/4" 10'-9 1/8" 10'-9 1/8" 10'-9 1/8" 10'-8 7/8" 10'-8 3/4" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 1/8" 10'-8 1/8" 10'-8 1/8" 10'-7 7/8" 10'-7 3/4" 10'-7 3/8" 10'-7 1/4" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 3/8" 10'-6 3/8" 10'-6 3/8" 10'-6 1/8" 10'-6 1/8" 10'-5 1/8"
ES346C 2'-2" 3'-4 3/4" 155.379° 7'-5 5/8" 147.135° 0'-4 3/8" 11'-2 7/8" 6'-5 3/4" ES347C 2'-2" 3'-4 5/8" 155.254° 7'-5 3/4" 147.239° 0'-4 3/8" 11'-2 7/8" 6'-5 5/8" ES348C 2'-2" 3'-4 3/8" 155.123° 7'-5 7/8" 147.331° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" ES349C 2'-2" 3'-4 1/4" 154.990° 7'-6" 147.426° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 185350C 2'-2" 3'-4" 154.854° 7'-6 1/8" 147.525° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 185350C 2'-2" 3'-3 3/4" 154.714° 7'-6 1/8" 147.525° 0'-4 1/2" 11'-2 5/8" 6'-5 5/8" 185350C 2'-2" 3'-3 3/4" 154.570° 7'-6 1/4" 147.525° 0'-4 5/8" 11'-2 5/8" 6'-5 5/8" 185350C 2'-2" 3'-3 3/8" 154.570° 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 185353C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 185353C 2'-2" 3'-3 1/8" 154.269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 185354C 2'-2" 3'-3 1/8" 154.269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 185355C 2'-2" 3'-2 3/4" 153.953° 7'-6 3/4" 148.000° 0'-4 3/4" 11'-2 1/8" 6'-5 1/2" 185355C 2'-2" 3'-2 3/4" 153.953° 7'-6 3/4" 148.000° 0'-4 3/4" 11'-2 1/8" 6'-5 1/2" 185355C 2'-2" 3'-2 1/2" 153.788° 7'-6 7/8" 148.191° 0'-4 7/8" 11'-2 1/8" 6'-5 1/2" 185355C 2'-2" 3'-2 1/2" 153.048° 7'-7 1/8" 148.381° 0'-4 7/8" 11'-2 1/8" 6'-5 1/2" 185360C 2'-2" 3'-1 3/4" 153.048° 7'-7 1/8" 148.381° 0'-4 7/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-2 1/8" 6'-5 1/8" 11'-1 1/2" 6'-5 1/8" 11'-1 1/2" 6'-5 1/8" 11'-1 1/2" 6'-5 1/8" 11'-1 1/2	10'-9" 10'-9" 10'-9 7/8" 10'-8 7/8" 10'-8 3/8" 10'-8 1/2" 10'-8 3/8" 10'-8 1/4" 10'-8 1/4" 10'-7 3/4" 10'-7 3/4" 10'-7 1/2" 10'-7 1/2" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 5/8" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-5 1/8"
ES348C 2'-2" 3'-4 3/8" 155.123° 7'-5 7/8" 147.331° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 1 ES349C 2'-2" 3'-4 1/4" 154.990° 7'-6" 147.426° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 1 ES350C 2'-2" 3'-4" 154.854° 7'-6 1/8" 147.525° 0'-4 1/2" 11'-2 3/4" 6'-5 5/8" 1 ES351C 2'-2" 3'-3 3/4" 154.714° 7'-6 1/4" 147.621° 0'-4 5/8" 11'-2 5/8" 6'-5 5/8" 1 ES352C 2'-2" 3'-3 3/8" 154.570° 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 1 ES353C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.805° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 1 ES354C 2'-2" 3'-3 1/8" 154.269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 1 ES35C 2'-2" 3'-2 3/4" 153.953° 7'-6 5/8"	10'-8 7/8" 10'-8 3/4" 10'-8 5/8" 10'-8 5/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 3/8" 10'-8 1/4" 10'-8 1/8" 10'-7 7/8" 10'-7 7/8" 10'-7 1/2" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 3/8" 10'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 1/8" 10'-5 3/4" 10'-6 1/8" 10'-5 3/4" 10'-6 1/8" 10'-5 5/8"
ES350C 2'-2" 3'-4" 154.854° 7'-6 1/8" 147.525° 0'-4 1/2" 11'-2 5/8" 6'-5 5/8" 1 ES351C 2'-2" 3'-3 3/4" 154.714° 7'-6 1/4" 147.621° 0'-4 5/8" 11'-2 5/8" 6'-5 5/8" 1 ES352C 2'-2" 3'-3 3/8" 154.421° 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 1 ES353C 2'-2" 3'-3 1/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 1/2" 1 ES354C 2'-2" 3'-3 1/8" 154.4269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 1/2" 6'-5 1/2" 1 ES356C 2'-2" 3'-3 1/8" 154.269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 1/8" 6'-5 1/2" 1 ES356C 2'-2" 3'-2 3/4" 153.953° 7'-6 3/8" 148.000° 0'-4 3/4" 11'-2 1/4" 6'-5 1/2" 1 ES35C 2'-2" 3'-2 1/2" 153.788° 7'-6 7/8"	10'-8 5/8" 10'-8 1/2" 10'-8 3/8" 10'-8 3/8" 10'-8 1/4" 10'-8 1/8" 10'-8 1/8" 10'-7 7/8" 10'-7 3/4" 10'-7 5/8" 10'-7 1/4" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 3/8" 10'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-5 3/4" 10'-5 3/4" 10'-5 5/8"
ES352C 2'-2" 3'-3 5/8" 154.570° 7'-6 1/4" 147.712° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 1 ES353C 2'-2" 3'-3 3/8" 154.421° 7'-6 3/8" 147.807° 0'-4 5/8" 11'-2 1/2" 6'-5 5/8" 1 ES354C 2'-2" 3'-3 1/8" 154.269° 7'-6 1/2" 147.905° 0'-4 3/4" 11'-2 3/8" 6'-5 1/2" 1 ES355C 2'-2" 3'-3 1/8" 154.269° 7'-6 5/8" 148.000° 0'-4 3/4" 11'-2 3/8" 6'-5 1/2" 1 ES356C 2'-2" 3'-2 3/4" 153.953° 7'-6 7/8" 148.000° 0'-4 3/4" 11'-2 1/8" 6'-5 1/2" 1 ES35C 2'-2" 3'-2 1/2" 153.788° 7'-6 7/8" 148.191° 0'-4 7/8" 11'-2 1/8" 6'-5 1/2" 1 ES35C 2'-2" 3'-2 1/4" 153.618° 7'-7 1/8" 148.281° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 1 ES35C 2'-2" 3'-1 3/4" 153.618° 7'-7 1/8"	10'-8 3/8" 10'-8 1/8" 10'-8 1/8" 10'-8 1/8" 10'-7 3/8" 10'-7 3/8" 10'-7 5/8" 10'-7 1/2" 10'-7 1/8" 10'-7 1/8" 10'-6 7/8" 10'-6 5/8" 10'-6 1/2" 10'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 3/4" 10'-5 5/8"
ES355C 2'-2" 3-3" 154.113° 7'-6 5/8" 148.000° 0'-4 3/4" 11'-2 3/8" 6'-5 1/2" 1 ES356C 2'-2" 3'-2 3/4" 153.953° 7'-6 3/4" 148.090° 0'-4 3/4" 11'-2 1/4" 6'-5 1/2" 1 ES357C 2'-2" 3'-2 1/2" 153.788° 7'-6 7/8" 148.191° 0'-4 7/8" 11'-2 1/8" 6'-5 1/2" 1 ES358C 2'-2" 3'-2 1/4" 153.618° 7'-7" 148.281° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 1 ES359C 2'-2" 3'-2 1/4" 153.444° 7'-7 1/8" 148.381° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 1 ES360C 2'-2" 3'-1 3/4" 153.266° 7'-7 1/4" 148.470° 0'-5" 11'-2" 6'-5 3/8" 1 ES361C 2'-2" 3'-1 1/2" 153.083° 7'-7 3/8" 148.569° 0'-5" 11'-1 7/8" 6'-5 1/8" 1 ES362C 2'-2" 3'-1 1/8" 152.089° 7'-7 1/2" 148.66	10'-8 1/8" 10'-8" 10'-77/8" 10'-7 7/8" 10'-7 3/8" 10'-7 1/2" 10'-7 1/8" 10'-7 1/8" 10'-7 1/8" 10'-6 3/8" 10'-6 3/8" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8"
ES357C 2'-2" 3'-2 1/2" 153.788° 7'-6 7/8" 148.191° 0'-4 7/8" 11'-2 1/8" 6'-5 1/2" 1 ES358C 2'-2" 3'-2 1/4" 153.618° 7'-7" 148.281° 0'-4 7/8" 11'-2 1/8" 6'-5 3/8" 1 ES359C 2'-2" 3'-2 1/4" 153.618° 7'-7 1/8" 148.381° 0'-4 7/8" 11'-2" 6'-5 3/8" 1 ES359C ES360C 2'-2" 3'-1 3/4" 153.266° 7'-7 1/8" 148.381° 0'-4 7/8" 11'-2" 6'-5 3/8" 1 ES361C ES361C 2'-2" 3'-1 1/2" 153.083° 7'-7 3/8" 148.569° 0'-5" 11'-1 7/8" 6'-5 1/8" 1 ES362C 2'-2" 3'-1 1/8" 152.895° 7'-7 1/2" 148.664° 0'-5" 11'-1 7/8" 6'-5 1/8" 1 ES363C 2'-2" 3'-1 1/8" 152.700° 7'-7 5/8" 148.749° 0'-5 1/8" 11'-1 3/4" 6'-5" 1 ES364C 2'-2" 3'-0 7/8" 152.502° 7'-7 3/4" 148.843° 0'-5 1/8" 11'-1 3/4" 6'-5" 1 ES365C 2'-2" </td <td>10'-7 7/8" 10'-7 3/4" 10'-7 5/8" 10'-7 5/8" 10'-7 1/2" 10'-7 1/4" 10'-7 1/4" 10'-7 1/8" 10'-6 7/8" 10'-6 3/4" 10'-6 1/2" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8" 10'-5 5/8"</td>	10'-7 7/8" 10'-7 3/4" 10'-7 5/8" 10'-7 5/8" 10'-7 1/2" 10'-7 1/4" 10'-7 1/4" 10'-7 1/8" 10'-6 7/8" 10'-6 3/4" 10'-6 1/2" 10'-6 1/8" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8" 10'-5 5/8"
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ES361C 2'-2" 3'-1 1/2" 153.083° 7'-7 3/8" 148.569° 0'-5" 11'-1 7/8" 6'-5 1/8" 1 ES362C 2'-2" 3'-1 1/4" 152.895° 7'-7 1/2" 148.664° 0'-5" 11'-1 7/8" 6'-5 1/8" 1 ES363C 2'-2" 3'-1 1/8" 152.700° 7'-7 5/8" 148.749° 0'-5 1/8" 11'-1 3/4" 6'-5" 1 ES364C 2'-2" 3'-0 7/8" 152.502° 7'-7 3/4" 148.843° 0'-5 1/8" 11'-1 3/4" 6'-5" ES365C 2'-2" 3'-0 5/8" 152.298° 7'-7 7/8" 148.940° 0'-5 1/4" 11'-1 5/8" 6'-4 7/8" 1 ES366C 2'-2" 3'-0 3/8" 152.088° 7'-8" 149.032° 0'-5 1/4" 11'-1 1/2" 6'-4 7/8" 1 ES367C 2'-2" 3'-0" 151.872° 7'-8 1/8" 149.212° 0'-5 1/4" 11'-1 1/2" 6'-4 3/4" 1 ES368C 2'-2" 2'-11 3/4" 151.651° 7'-8 1/4" 149.206° 0	10'-7 3/8" 10'-7 1/4" 10'-7 1/8" 10'-6 7/8" 10'-6 3/4" 10'-6 5/8" 10'-6 1/2" 10'-6 1/4" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8" 10'-5 5/8"
ES363C 2'-2" 3'-1 1/8" 152.700° 7'-7 5/8" 148.749° 0'-5 1/8" 11'-1 3/4" 6'-5" 1 ES364C 2'-2" 3'-0 7/8" 152.502° 7'-7 3/4" 148.843° 0'-5 1/8" 11'-1 3/4" 6'-5" ES365C 2'-2" 3'-0 5/8" 152.298° 7'-7 7/8" 148.940° 0'-5 1/4" 11'-1 5/8" 6'-4 7/8" 1 ES366C 2'-2" 3'-0 3/8" 152.088° 7'-8" 149.032° 0'-5 1/4" 11'-1 1/2" 6'-4 7/8" 1 ES367C 2'-2" 3'-0" 151.872° 7'-8 1/8" 149.121° 0'-5 1/4" 11'-1 1/2" 6'-4 3/4" 1 ES368C 2'-2" 2'-11 3/4" 151.651° 7'-8 1/4" 149.206° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1 ES369C 2'-2" 2'-11 1/2" 151.423° 7'-8 3/8" 149.301° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1	10'-7 1/8" 10'-7" 10'-6 7/8" 10'-6 3/4" 10'-6 5/8" 10'-6 1/2" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8" 10'-5 1/2"
ES365C 2'-2" 3'-0 5/8" 152.298° 7'-7 7/8" 148.940° 0'-5 1/4" 11'-1 5/8" 6'-4 7/8" 1 ES366C 2'-2" 3'-0 3/8" 152.088° 7'-8" 149.032° 0'-5 1/4" 11'-1 1/2" 6'-4 7/8" 1 ES367C 2'-2" 3'-0" 151.872° 7'-8 1/8" 149.121° 0'-5 1/4" 11'-1 1/2" 6'-4 3/4" 1 ES368C 2'-2" 2'-11 3/4" 151.651° 7'-8 1/4" 149.206° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1 ES369C 2'-2" 2'-11 1/2" 151.423° 7'-8 3/8" 149.301° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1	0'-6 7/8" 10'-6 3/4" 10'-6 5/8" 10'-6 1/2" 10'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-6" 10'-5 3/4" 10'-5 5/8"
ES367C 2'-2" 3'-0" 151.872° 7'-8 1/8" 149.121° 0'-5 1/4" 11'-1 1/2" 6'-4 3/4" 1 ES368C 2'-2" 2'-11 3/4" 151.651° 7'-8 1/4" 149.206° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1 ES369C 2'-2" 2'-11 1/2" 151.423° 7'-8 3/8" 149.301° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1	0'-6 5/8" 10'-6 1/2" 10'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-6 1/8" 10'-5 3/4" 10'-5 5/8"
ES369C 2'-2" 2'-11 1/2" 151.423° 7'-8 3/8" 149.301° 0'-5 3/8" 11'-1 3/8" 6'-4 5/8" 1	0'-6 3/8" 10'-6 1/4" 10'-6 1/8" 10'-6" 10'-5 3/4" 10'-5 5/8" 10'-5 1/2"
ES370C 2'-2" 2'-11 1/4" 151.189° 7-8 1/2" 149.391° 0'-5 1/2" 11'-1 1/4" 6'-4 1/2" 1	10'-6" 10'-5 3/4" 10'-5 5/8" 10'-5 1/2"
ES371C 2'-2" 2'-11" 150.948° 7'-8 5/8" 149.478° 0'-5 1/2" 11'-1 1/8" 6'-4 1/2" 1 ES372C 2'-2" 2'-10 3/4" 150.701° 7'-8 3/4" 149.567° 0'-5 5/8" 11'-1 1/8" 6'-4 3/8"	10'-5 5/8" 10'-5 1/2"
ES374C 2'-2" 2'-10 1/4" 150.185° 7'-9 1/8" 149.745° 0'-5 5/8" 11'-1" 6'-4 1/4" 1	
ES376C 2'-2" 2'-9 5/8" 149.640° 7'-9 3/8" 149.921° 0'-5 3/4" 11'-0 3/4" 6'-4 1/8" 1	10'-5 3/8"
ES378C 2'-2" 2'-9 1/8" 149.062° 7'-9 3/4" 150.094° 0'-5 7/8" 11'-0 5/8" 6'-4" 1	10'-5 1/4" 10'-5 1/8"
ES380C 2'-2" 2'-8 1/2" 148.451° 7'-10" 150.263° 0'-6" 11'-0 1/2" 6'-3 7/8" 1	10'-4 7/8" 10'-4 3/4"
ES382C 2'-2" 2'-7 7/8" 147.803° 7'-10 3/8" 150.430° 0'-6 1/8" 11'-0 3/8" 6'-3 3/4" 1	10'-4 5/8" 10'-4 1/2" 10'-4 1/4"
	10'-4 1/8" 10'-4"
ES386C 2'-2" 2'-6 3/4" 146.387° 7'-11" 150.752° 0'-6 3/8" 11'-0 1/8" 6'-3 3/8" 1	10'-3 3/4" 10'-3 5/8"
ES388C 2'-2" 2'-6 1/8" 145.613° 7'-11 1/4" 150.909° 0'-6 1/2" 10'-11 7/8" 6'-3 1/4" 1	10'-3 1/2" 10'-3 1/4"
ES390C 2'-2" 2'-5 1/2" 144.790° 7'-11 5/8" 151.062° 0'-6 5/8" 10'-11 3/4" 6'-3 1/8" 1 ES391C 2'-2" 2'-5 1/8" 144.359° 7'-11 7/8" 151.144° 0'-6 3/4" 10'-11 3/4" 6'-3 1/8"	10'-3 1/8" 10'-3"
ES393C 2'-2" 2'-4 1/2" 143.455° 8'-0 1/8" 151.292° 0'-6 7/8" 10'-11 5/8" 6'-2 7/8" 1	10'-2 3/4" 10'-2 5/8"
ES395C 2'-2" 2'-3 7/8" 142.493° 8'-0 1/2" 151.442° 0'-7" 10'-11 1/2" 6'-2 3/4" 1	10'-2 3/8" 10'-2 1/4"
ES397C 2'-2" 2'-3 1/4" 141.467° 8'-0 7/8" 151.584° 0'-7 1/8" 10'-11 3/8" 6'-2 5/8" 1	10'-2 1/8" 10'-1 7/8" 10'-1 3/4"
ES399C 2'-2" 2'-2 5/8" 140.371° 8'-1 1/4" 151.727° 0'-7 1/4" 10'-11 1/4" 6'-2 1/2" 1	10'-1 3/4 10'-1 1/2" 10'-1 3/8"
	10'-1 1/8" 10'-1"
ES403C 2'-2" 2'-1 3/8" 137.950° 8'-2 1/8" 152.003° 0'-7 1/2" 10'-11" 6'-2 1/4" 1	10'-0 3/4" 10'-0 5/8"
	10'-0 3/8" 10'-0 1/8"
	10'-0" 9'-11 3/4"
ES410C 2'-2" 1'-11 1/8" 132.832° 8'-3 1/2" 152.461° 0'-8 1/8" 10'-10 3/4" 6'-1 3/4" 9	9'-11 5/8"
ES412C 2'-2" 1'-10 5/8" 131.127° 8'-3 7/8" 152.583° 0'-8 1/4" 10'-10 3/4" 6'-1 5/8"	9'-11 1/8" 9'-11" 9'-10 3/4"
ES414C 2'-2" 1'-10" 129.294° 8'-4 3/8" 152.703° 0'-8 3/8" 10'-10 3/4" 6'-1 1/2" 9	9'-10 3/4" 9'-10 1/2" 9'-10 3/8"
ES416C 2'-1 7/8" 1'-9 3/4" 128.728° 8'-4 1/8" 152.823° 0'-8 5/8" 10'-10 1/2" 6'-1 3/8" 9	9'-10 1/8" 9'-9 7/8"
	9'-9 5/8" 9'-9 1/2"
ES421C 2'-1 1/4" 1'-11 3/4" 134.416° 8'-0 3/8" 153.107° 0'-9" 10'-9 1/4" 6'-0 7/8"	9'-9 1/4"
ES423C 2'-1" 2'-0 5/8" 136.299° 7'-11" 153.217° 0'-9 1/4" 10'-8 3/4" 6'-0 5/8"	9'-8 3/4" 9'-8 1/2"
ES425C 2'-0 3/4" 2'-1 3/8" 137.995° 7'-9 5/8" 153.324° 0'-9 3/8" 10'-8 3/8" 6'-0 3/8"	9'-8 3/8" 9'-8 1/8" 9'-7 7/8"
ES427C 2-0 5/8" 2-2 1/4" 139.524° 7-8 1/4" 153.432° 0'-9 1/2" 10'-8" 6'-0 1/4" ES428C 2'-0 1/2" 2'-2 5/8" 140.233° 7'-7 1/2" 153.483° 0'-9 5/8" 10'-7 3/4" 6'-0 1/8"	9'-7 5/8" 9'-7 3/8"
ES429C 2'-0 3/8" 2'-3" 140.905° 7'-6 7/8" 153.534° 0'-9 3/4" 10'-7 5/8" 6'-0" ES430C 2'-0 1/4" 2'-3 3/8" 141.544° 7'-6 1/4" 153.580° 0'-9 7/8" 10'-7 3/8" 5'-11 7/8"	9'-7 1/8" 9'-6 7/8"
ES432C 2'-0" 2'-4 1/8" 142.731° 7'-5" 153.681° 0'-10" 10'-7" 5'-11 5/8"	9'-6 5/8" 9'-6 1/2"
ES434C 1'-11 3/4" 2'-4 3/4" 143.802° 7'-3 3/4" 153.779° 0'-10 1/4" 10'-6 3/4" 5'-11 1/2"	9'-6 1/4"
ES436C 1'-11 1/2" 2'-5 1/2" 144.774° 7'-2 1/2" 153.872° 0'-10 3/8" 10'-6 3/8" 5'-11 1/4"	9'-5 3/4" 9'-5 1/2" 9'-5 1/4"
ES438C 1'-11 1/8" 2'-6 1/8" 145.653° 7'-1 3/8" 153.3965° 0'-10 5/8" 10'-6 1/8" 5'-11" ES439C 1'-11 1/8" 2'-6 1/2" 146.062° 7'-0 3/4" 154.011° 0'-10 3/4" 10'-5 7/8" 5'-11"	9'-5" 9'-4 3/4"
	9'-4 1/2" 9'-4 1/4"
ES442C 1'-10 3/4" 2'-7 3/8" 147.170° 6'-11 1/8" 154.145° 0'-11" 10'-5 1/2" 5'-10 5/8"	9'-3 7/8" 9'-3 5/8"
	9'-3 3/8" 9'-3 1/8"
ES446C 1'-10 1/4" 2'-8 1/2" 148.409° 6'-9 1/8" 154.313° 0'-11 3/8" 10'-4 7/8" 5'-10 1/4" ES447C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 2'-8 3/4" 148.681° 6'-8 5/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" ES449C 1'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 5'-10 1/8" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-4 3/4" 154.354° 0'-11 1/2" 10'-	9'-2 7/8" 9'-2 5/8"
	9'-2 3/8" 9'-2 1/8" 9'-1 3/4"
ES451C 1'-9 3/4" 2'-9 5/8" 149.631° 6'-6 5/8" 154.514° 0'-11 7/8" 10'-4 1/4" 5'-9 3/4"	9'-1 1/2" 9'-1 1/4"
ES453C 1'-9 1/2" 2'-10" 150.032° 6'-5 3/4" 154.593° 1'-0 1/8" 10'-4" 5'-9 1/2" ES454C 1'-9 3/8" 2'-10 1/4" 150.215° 6'-5 3/8" 154.631° 1'-0 1/4" 10'-3 7/8" 5'-9 3/8"	9'-1" 9'-0 3/4"
ES455C 1'-9 1/4" 2'-10 3/8" 150.386° 6'-4 7/8" 154.668° 1'-0 3/8" 10'-3 5/8" 5'-9 1/4" ES456C 1'-9 1/8" 2'-10 5/8" 150.547° 6'-4 1/2" 154.708° 1'-0 1/2" 10'-3 1/2" 5'-9 1/8"	9'-0 3/8" 9'-0 1/8"
ES458C 1'-8 7/8" 2'-10 7/8" 150.838° 6'-3 3/4" 154.777° 1'-0 3/4" 10'-3 1/4" 5'-9" 8	8'-11 7/8" 8'-11 5/8"
ES460C 1'-8 5/8" 2'-11 1/8" 151.088° 6'-2 7/8" 154.850° 1'-0 7/8" 10'-3" 5'-8 3/4"	8'-11 1/4" 8'-11" 8'-10 3/4"
ES462C 1'-8 3/8" 2'-11 3/8" 151.300° 6'-2 1/4" 154.921° 1'-1 1/8" 10'-2 3/4" 5'-8 1/2" 8	3'-10 3/4" 3'-10 3/8" 3'-10 1/8"
ES464C 1'-8 1/8" 2'-11 5/8" 151.475° 6'-1 1/2" 154.989° 1'-1 3/8" 10'-2 1/2" 5'-8 3/8"	8'-9 7/8" 8'-9 1/2"
ES466C 1'-7 7/8" 2'-11 3/4" 151.615° 6'-0 7/8" 155.054° 1'-1 5/8" 10'-2 1/4" 5'-8 1/8" ES467C 1'-7 3/4" 2'-11 7/8" 151.671° 6'-0 1/2" 155.088° 1'-1 3/4" 10'-2 1/8" 5'-8"	8'-9 1/4" 8'-8 7/8"
ES469C 1'-7 1/2" 2'-11 7/8" 151.759° 5'-11 7/8" 155.153° 1'-2" 10'-1 3/4" 5'-7 7/8"	8'-8 5/8" 8'-8 3/8"
ES470C 1'-7 3/8" 3'-0" 151.790° 5'-11 5/8" 155.184° 1'-2 1/8" 10'-1 5/8" 5'-7 3/4" ES471C 1'-7 1/4" 3'-0" 151.813° 5'-11 3/8" 155.216° 1'-2 1/4" 10'-1 1/2" 5'-7 5/8" ES472C 1'-7 1/8" 3'-0" 151.828° 5'-11 1/8" 155.246° 1'-2 3/8" 10'-1 3/8" 5'-7 1/2"	8'-7 3/4" 8'-7 3/8"
ES472C 1'-7 1/8" 3'-0" 151.828° 5'-11 1/8" 155.246° 1'-2 3/8" 10'-1 3/8" 5'-7 1/2" ES473C 1'-7" 3'-0" 151.833° 5'-10 3/4" 155.277° 1'-2 1/2" 10'-1 1/4" 5'-7 3/8" ES474C 1'-7" 3'-0" 151.831° 5'-10 1/2" 155.307° 1'-2 5/8" 10'-1 1/8" 5'-7 1/4"	8'-7 3/8" 8'-7 1/8" 8'-6 3/4" 10'-6 3/
	8'-6 1/2" 10'-5 3/ 8'-6 1/8" 10'-5 3/
ES477C 1'-6 5/8" 3'-0" 151.774° 5'-9 7/8" 155.397° 1'-3" 10'-0 3/4" 5'-7" ES478C 1'-6 1/2" 2'-11 7/8" 151.738° 5'-9 5/8" 155.425° 1'-3 1/8" 10'-0 5/8" 5'-6 7/8"	8'-5 7/8" 10'-5 3/ 8'-5 1/2" 10'-5 1/
ES479C 1'-6 3/8" 2'-11 7/8" 151.694° 5'-9 3/8" 155.454° 1'-3 1/4" 10'-0 1/2" 5'-6 3/4" ES480C 1'-6 1/4" 2'-11 3/4" 151.640° 5'-9 1/4" 155.483° 1'-3 3/8" 10'-0 3/8" 5'-6 5/8"	8'-5 1/8" 10'-4 3/ 8'-4 7/8" 10'-4 1/
ES482C 1'-6" 2'-11 5/8" 151.509° 5'-8 7/8" 155.538° 1'-3 5/8" 10'-0 1/8" 5'-6 1/4"	8'-4 1/2" 10'-4 1/ 8'-4 1/4" 10'-3 3/
ES484C 1'-5 3/4" 2'-11 1/2" 151.341° 5'-8 1/2" 155.592° 1'-3 7/8" 9'-11 3/4" 5'-6"	8'-3 7/8" 10'-3 1/ 8'-3 1/2" 10'-3 1/ 8'-3 1/4" 10'-2 3/
	8'-3 1/4" 10'-2 3/ 8'-2 7/8" 10'-2 1/ 8'-2 1/2" 10'-2 1/
ES488C 1'-5 1/4" 2'-11" 150.894° 5'-8" 155.698° 1'-4 3/8" 9'-11 1/4" 5'-5 3/8"	8'-2 1/2" 10'-2 1/ 8'-2 1/4" 10'-1 3/ 8'-1 7/8" 10'-1 3/
ES490C 1'-5" 2'-10 5/8" 150.613° 5'-7 3/4" 155.749° 1'-4 5/8" 9'-11" 5'-5 1/8" ES491C 1'-4 7/8" 2'-10 1/2" 150.455° 5'-7 5/8" 155.774° 1'-4 3/4" 9'-10 7/8" 5'-5"	8'-1 1/2" 10'-1 1/ 8'-1 1/4" 10'-0 3/
ES492C 1'-4 3/4" 2'-10 1/4" 150.288° 5'-7 1/2" 155.798° 1'-4 7/8" 9'-10 3/4" 5'-4 7/8" ES493C 1'-4 5/8" 2'-10 1/8" 150.109° 5'-7 1/2" 155.823° 1'-5" 9'-10 5/8" 5'-4 3/4"	8'-0 7/8" 10'-0 3/ 8'-0 1/2" 10'-
ES494C 1'-4 1/2" 2'-9 7/8" 149.921° 5'-7 3/8" 155.846° 1'-5 1/8" 9'-10 1/2" 5'-4 1/2" ES495C 1'-4 3/8" 2'-9 3/4" 149.718° 5'-7 3/8" 155.872° 1'-5 1/4" 9'-10 3/8" 5'-4 3/8" 7	8'-0 1/8" 9'-11 3/ 7'-11 7/8" 9'-11 3/
ES497C 1'-4 1/4" 2'-9 1/4" 149.278° 5'-7 1/4" 155.919° 1'-5 5/8" 9'-10 1/8" 5'-4 1/8" 7	7'-11 1/2" 9'-1 7'-11 1/8" 9'-10 5/
	7'-10 3/4" 9'-10 1/ 7'-10 3/8" 9'-9 7/ 7'-10" 9'-9 5/
ES501C 1'-3 3/4" 2'-8 1/4" 148.239° 5'-7 1/8" 156.009° 1'-6 1/8" 9'-9 5/8" 5'-3 1/2"	7'-10" 9'-9 5/ 7'-9 3/4" 9'-9 1/ 7'-9 3/8" 9'-8 7/
ES502C 1-3 3/6" 2-6 147.942 5-7 1/8 130.032 1-6 1/4 9-9 1/2 5-3 3/6 ES503C 1-3 1/2" 2-7 3/4" 147.630° 5-7 1/8" 156.054° 1-6 3/8" 9-9 3/8" 5-3 1/4" ES504C 1-3 3/8" 2-7 1/2" 147.301° 5-7 1/8" 156.075° 1-6 1/2" 9-9 1/4" 5-3 1/8"	7'-9" 9'-8 1/

RAIL VERT TYPE NOTES

1. RAIL "PO1V" ELEVATIONS SHALL BE USED FOR VERTICAL ALIGNMENT OF MEMBERS DURING SHOP ASSEMBLY.

2. VERTICAL DIMENSIONS OR ELEVATIONS STATED IN *RAIL VERT* SCHEDULES ARE TO *BASELINE ELEVATION* FOR EACH *RAIL RUN.* THE BASELINE ELEVATION IS ARBITRARILY SET TO 1'-0" BELOW THE LOWEST POINT OF EACH *RAIL RUN* AND IS UNIQUE TO EACH *RAIL RUN*.

3. ANCHORAGE SPACING LOGIC IS SPECIFIED IN DOCUMENTS, BUT ANCHORAGE IS NOT PRESENT AT EVERY RAIL VERT. BECAUSE SPECIFIC ANCHORAGE PLAN LOCATIONS ARE LAID OUT BY FABRICATOR, "ANV" ELEVATION HAS BEEN PROVIDED FOR ALL RAIL VERTS.

RAIL VERT TYPE LEGEND

"#" SYMBOL REPRESENTS A NUMBER

P0# - POINT AT CENTERPOINT OF *RAIL VERT* SEGMENT, LOCATED AT EITHER: *RAIL VERT ENDS* (TOP/BOTTOM) OR *RAIL VERT BREAKS*.

P0#V - POINT VERTICAL DISTANCE TO BASELINE ELEVATION

L0# - RAIL VERT SEGEMENT (LEG) OR LENGTH OF SEGMENT (LEG)

H0# - RAIL HORIZONTAL

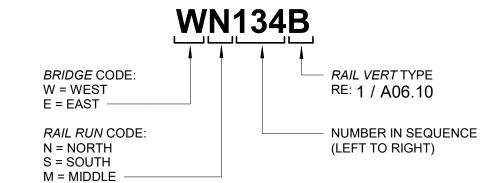
H0#V - RAIL HORIZONTAL VERTICAL DISTANCE TO BASELINE ELEVATION

A0# - ANGLE BETWEEN ADJACENT RAIL VERT SEGMENTS

AN01 - CENTERLINE OF ANCHORAGE

ANV - ANCHORAGE VERTICAL DISTANCE TO BASELINE ELEVATION

RAIL VERT ID LOGIC



GBA

9801 Renner Blvd. Ste. 300 Lenexa, KS 66219 913.492.0400 gbateam.com

BRIDGE PLANS

View High Dr, View High Pkwy, Lee's Summit, MO

1. RE: A01.00 FOR PROJECT TERMINOLOGY.

2. RE: RAIL ELEVATIONS FOR:
a. RAIL VERT LAYOUT

4. RE: RAIL SCHEDULES FOR:
a. RAIL VERT VERTICAL LOCATION RELATIVE
TO EACH RAIL RUN BASELINE ELEVATION
b. RAIL VERT LEG LENGTHS

a. RAIL VERT CONFIGURATION TYPES.

b. RAIL VERT LEG LENGTHS c. RAIL VERT BEND ANGLES d. ANCHORAGE LOCATIONS

e. RAIL HORIZONTAL LOCATIONS

RAIL REFERENCE

a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT

3. RE: 1 / A06.10 FOR:

c. RAIL VERT BENDS LAYOUT.

CRAIG DEROY ROGGE NUMBER A-905244

PROJECT NUMBER 12720.62

DATE 2020.09.17

DESIGNED: NJC

DRAWN: NJC

REVIEWED: CLR

SHEET TITLE

SCHEDULE - EAST BRIDGE

RAIL VERTS - SOUTH RAIL

SHEET NUMBER

RUN

A06.15

	EA:	ST	BRI	DG	E -	MIE	DDL	ER	UN	
<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u>A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	<u>ANV</u>	<u>H03V</u>	<u>H04V</u>
EM1A EM2A	1'-0" 1'-0 1/4"	0'-4 1/8" 0'-4 5/8"					0'-4 1/8" 0'-4 5/8"	1'-5" 1'-5 1/4"	1'-2 5/8" 1'-3 1/8"	
EM3A EM4A	1'-0 3/8" 1'-0 1/2"	0'-5 1/4" 0'-5 7/8" 0'-6 3/8"					0'-5 1/4"	1'-5 3/8" 1'-5 1/2"	1'-3 5/8" 1'-4 1/8"	
EM5A EM6A EM7A	1'-0 5/8" 1'-0 7/8" 1'-1"	0'-5 3/8 0'-7" 0'-7 1/2"					0'-6 3/8" 0'-7" 0'-7 1/2"	1'-5 5/8" 1'-5 7/8" 1'-6"	1'-4 1/2" 1'-5" 1'-5 1/2"	
EM8A EM9A	1'-1 1/8" 1'-1 3/8"	0'-8 1/8" 0'-8 5/8"					0'-8 1/8" 0'-8 5/8"	1'-6 1/8" 1'-6 3/8"	1'-6" 1'-6 1/2"	
EM10A EM11A EM12A	1'-1 1/2" 1'-1 5/8" 1'-1 3/4"	0'-9 1/4" 0'-9 7/8" 0'-10 3/8"					0'-9 1/4" 0'-9 7/8" 0'-10 3/8"	1'-6 1/2" 1'-6 5/8" 1'-6 3/4"	1'-7" 1'-7 3/8" 1'-7 7/8"	
EM13A EM14A	1'-2" 1'-2 1/8"	0'-11" 0'-11 1/2"					0'-11" 0'-11 1/2"	1'-7" 1'-7 1/8"	1'-8 3/8" 1'-8 7/8"	
EM15A EM16A	1'-2 1/4" 1'-2 1/2"	1'-0 1/8" 1'-0 5/8"					1'-0 1/8" 1'-0 5/8"	1'-7 1/4" 1'-7 1/2"	1'-9 1/4" 1'-9 3/4"	
EM17A EM18A EM19A	1'-2 5/8" 1'-2 3/4" 1'-2 7/8"	1'-1 1/4" 1'-1 3/4" 1'-2 3/8"					1'-1 1/4" 1'-1 3/4" 1'-2 3/8"	1'-7 5/8" 1'-7 3/4" 1'-7 7/8"	1'-10 1/4" 1'-10 5/8" 1'-11 1/8"	
EM20A EM21A	1'-3 1/8" 1'-3 1/4"	1'-3" 1'-3 1/2"					1'-2 3/6 1'-3" 1'-3 1/2"	1'-8 1/8" 1'-8 1/4"	1'-11 5/8"	
EM22A EM23A	1'-3 3/8" 1'-3 5/8"	1'-4 1/8" 1'-4 5/8"					1'-4 1/8" 1'-4 5/8"	1'-8 3/8" 1'-8 5/8"	2'-0 1/2" 2'-1"	
EM24A EM25A	1'-3 3/4" 1'-3 7/8" 1'-4"	1'-5 1/4" 1'-5 3/4"					1'-5 1/4" 1'-5 3/4"	1'-8 3/4" 1'-8 7/8"	2'-1 3/8" 2'-1 7/8"	
EM26A EM27A EM28A	1'-4 1/4" 1'-4 3/8"	1'-6 3/8" 1'-7" 1'-7 1/2"					1'-6 3/8" 1'-7" 1'-7 1/2"	1'-9" 1'-9 1/4" 1'-9 3/8"	2'-2 1/4" 2'-2 3/4" 2'-3 1/4"	
EM29A EM30A	1'-4 1/2" 1'-4 3/4"	1'-8 1/8" 1'-8 5/8"					1'-8 1/8" 1'-8 5/8"	1'-9 1/2" 1'-9 3/4"	2'-3 5/8" 2'-4 1/8"	
EM31A EM32A EM33A	1'-4 7/8" 1'-5" 1'-5 1/8"	1'-9 1/4" 1'-9 3/4" 1'-10 3/8"					1'-9 1/4" 1'-9 3/4" 1'-10 3/8"	1'-9 7/8" 1'-10" 1'-10 1/8"	2'-4 1/2" 2'-5" 2'-5 3/8"	
EM34A EM35A	1'-5 3/8" 1'-5 1/2"	1'-10 3/8" 1'-10 7/8" 1'-11 1/2"					1'-10 7/8" 1'-11 1/2"	1'-10 1/8 1'-10 3/8" 1'-10 1/2"	2'-5 7/8" 2'-6 1/4"	
EM36A EM37A	1'-5 5/8" 1'-5 7/8"	2'-0 1/8" 2'-0 5/8"					2'-0 1/8" 2'-0 5/8"	1'-10 5/8" 1'-10 7/8"	2'-6 3/4" 2'-7 1/8"	
EM38A EM39A EM40A	1'-6" 1'-6 1/8" 1'-6 1/4"	2'-1 1/4" 2'-1 3/4" 2'-2 3/8"					2'-1 1/4" 2'-1 3/4" 2'-2 3/8"	1'-11" 1'-11 1/8" 1'-11 1/4"	2'-7 1/2" 2'-8" 2'-8 3/8"	
EM40A EM41A EM42A	1'-6 1/4" 1'-6 1/2" 1'-6 5/8"	2'-2 3/8" 2'-2 7/8" 2'-3 1/2"					2'-2 3/8" 2'-2 7/8" 2'-3 1/2"	1'-11 1/4" 1'-11 1/2" 1'-11 5/8"	2'-8 3/8" 2'-8 7/8" 2'-9 1/4"	
EM43A EM44A	1'-6 3/4" 1'-7"	2'-4" 2'-4 5/8"	-				2'-4" 2'-4 5/8"	1'-11 3/4" 2'-0"	2'-9 5/8" 2'-10 1/8"	
EM45A EM46A	1'-7 1/8" 1'-7 1/4"	2'-5 1/4" 2'-5 3/4"					2'-5 1/4" 2'-5 3/4"	2'-0 1/8" 2'-0 1/4"	2'-10 1/2" 2'-10 7/8"	
EM47A EM48A EM49A	1'-7 3/8" 1'-7 5/8" 1'-7 3/4"	2'-6 1/4" 2'-6 1/2" 2'-6 7/8"					2'-6 1/4" 2'-6 1/2" 2'-6 7/8"	2'-0 3/8" 2'-0 5/8" 2'-0 3/4"	2'-11 1/4" 2'-11 3/4" 3'-0 1/8"	
EM50A EM51A	1'-7 7/8" 1'-8"	2'-7 1/4" 2'-7 5/8"					2'-7 1/4" 2'-7 5/8"	2'-0 7/8" 2'-1"	3'-0 1/2" 3'-1"	
EM52A EM53A	1'-8 1/8" 1'-8 1/4"	2'-7 7/8" 2'-8 1/4"					2'-7 7/8" 2'-8 1/4"	2'-1 1/8" 2'-1 1/4" 2' 1 1/2"	3'-1 3/8" 3'-1 3/4"	
EM54A EM55A EM56A	1'-8 1/2" 1'-8 5/8" 1'-8 3/4"	2'-8 5/8" 2'-8 7/8" 2'-9 1/4"					2'-8 5/8" 2'-8 7/8" 2'-9 1/4"	2'-1 1/2" 2'-1 5/8" 2'-1 3/4"	3'-2 1/8" 3'-2 1/2" 3'-3"	
EM57A EM58A	1'-8 7/8" 1'-9"	2'-9 5/8" 2'-9 7/8"					2'-9 5/8" 2'-9 7/8"	2'-1 7/8" 2'-2"	3'-3 3/8" 3'-3 3/4"	
EM59A EM60A EM61A	1'-9 1/8" 1'-9 1/4" 1'-9 1/2"	2'-10 1/4" 2'-10 5/8" 2'-10 7/8"					2'-10 1/4" 2'-10 5/8" 2'-10 7/8"	2'-2 1/8" 2'-2 1/4" 2'-2 1/2"	3'-4 1/8" 3'-4 1/2" 3'-4 7/8"	
EM62A EM63A	1'-9 5/8" 1'-9 3/4"	2'-11 1/4" 2'-11 1/2"					2'-11 1/4" 2'-11 1/2"	2'-2 5/8" 2'-2 3/4"	3'-5 1/4" 3'-5 5/8"	
EM64A EM65A	1'-9 7/8" 1'-10"	2'-11 7/8" 3'-0 1/8"					2'-11 7/8" 3'-0 1/8"	2'-2 7/8" 2'-3"	3'-6" 3'-6 3/8"	
EM66A EM67A EM68A	1'-10 1/8" 1'-10 1/4" 1'-10 1/2"	3'-0 1/2" 3'-0 3/4" 3'-1 1/8"					3'-0 1/2" 3'-0 3/4" 3'-1 1/8"	2'-3 1/8" 2'-3 1/4" 2'-3 1/2"	3'-6 7/8" 3'-7 1/4" 3'-7 5/8"	
EM69A EM70A	1'-10 5/8" 1'-10 3/4"	3'-1 3/8" 3'-1 3/4"					3'-1 3/8" 3'-1 3/4"	2'-3 5/8" 2'-3 3/4"	3'-8" 3'-8 3/8"	
EM71A EM72A	1'-10 7/8" 1'-11"	3'-2" 3'-2 1/4"					3'-2" 3'-2 1/4"	2'-3 7/8" 2'-4"	3'-8 3/4" 3'-9"	
EM73A EM74A EM75A	1'-11 1/8" 1'-11 3/8" 1'-11 1/2"	3'-2 5/8" 3'-2 7/8" 3'-3 1/8"					3'-2 5/8" 3'-2 7/8" 3'-3 1/8"	2'-4 1/8" 2'-4 3/8" 2'-4 1/2"	3'-9 3/8" 3'-9 3/4" 3'-10 1/8"	
EM76A EM77A	1'-11 5/8" 1'-11 3/4"	3'-3 1/2" 3'-3 3/4"	1				3'-3 1/2" 3'-3 3/4"	2'-4 5/8" 2'-4 3/4"	3'-10 1/2" 3'-10 7/8"	
EM78A EM79A	1'-11 7/8" 2'-0"	3'-4" 3'-4 3/8"					3'-4" 3'-4 3/8"	2'-4 7/8" 2'-5"	3'-11 1/4" 3'-11 5/8"	
EM80A EM81A EM82A	2'-0 1/8" 2'-0 3/8" 2'-0 1/2"	3'-4 5/8" 3'-4 7/8" 3'-5 1/8"					3'-4 5/8" 3'-4 7/8" 3'-5 1/8"	2'-5 1/8" 2'-5 3/8" 2'-5 1/2"	4'-0" 4'-0 1/4" 4'-0 5/8"	
EM83A EM84A	2'-0 5/8" 2'-0 3/4"	3'-5 1/2" 3'-5 3/4"	1				3'-5 1/2" 3'-5 3/4"	2'-5 5/8" 2'-5 3/4"	4'-1" 4'-1 3/8"	
EM85A EM86A	2'-0 7/8" 2'-1"	3'-6" 3'-6 1/4"					3'-6" 3'-6 1/4"	2'-5 7/8" 2'-6"	4'-1 3/4" 4'-2"	
EM87A EM88A EM89A	2'-1 1/8" 2'-1 3/8" 2'-1 1/2"	3'-6 1/2" 3'-6 3/4" 3'-7 1/8"					3'-6 1/2" 3'-6 3/4" 3'-7 1/8"	2'-6 1/8" 2'-6 3/8" 2'-6 1/2"	4'-2 3/8" 4'-2 3/4" 4'-3 1/8"	
EM90A EM91A	2'-1 5/8" 2'-1 3/4"	3'-7 3/8" 3'-7 5/8"					3'-7 3/8" 3'-7 5/8"	2'-6 5/8" 2'-6 3/4"	4'-3 3/8" 4'-3 3/4"	
EM92A EM93A EM94A	2'-1 7/8" 2'-2" 2'-2 1/8"	3'-7 7/8" 3'-8 1/8" 3'-8 3/8"					3'-7 7/8" 3'-8 1/8" 3'-8 3/8"	2'-6 7/8" 2'-7" 2'-7 1/8"	4'-4 1/8" 4'-4 3/8" 4'-4 3/4"	
EM95A EM96A	2'-2 3/8" 2'-2 1/2"	3'-8 5/8" 3'-8 7/8"					3'-8 5/8" 3'-8 7/8"	2'-7 3/8" 2'-7 1/2"	4'-5 1/8" 4'-5 3/8"	
EM97A EM98A	2'-2 5/8" 2'-2 3/4"	3'-9 1/8" 3'-9 3/8"					3'-9 1/8" 3'-9 3/8"	2'-7 5/8" 2'-7 3/4"	4'-5 3/4" 4'-6 1/8"	
EM99A EM100A EM101A	2'-2 7/8" 2'-3" 2'-3 1/4"	3'-9 5/8" 3'-9 7/8" 3'-10 1/8"					3'-9 5/8" 3'-9 7/8" 3'-10 1/8"	2'-7 7/8" 2'-8" 2'-8 1/4"	4'-6 3/8" 4'-6 3/4" 4'-7"	
EM102A EM103A	2'-3 3/8" 2'-3 3/8"	3'-10 3/8" 3'-10 5/8"					3'-10 3/8" 3'-10 5/8"	2'-8 3/8" 2'-8 3/8"	4'-7 3/8" 4'-7 5/8"	
EM104A EM105A	2'-3 1/2" 2'-3 5/8"	3'-10 7/8" 3'-11 1/8"					3'-10 7/8" 3'-11 1/8"	2'-8 1/2" 2'-8 5/8"	4'-8" 4'-8 1/4"	
EM106A EM107A EM108A	2'-3 3/4" 2'-3 7/8" 2'-4"	3'-11 3/8" 3'-11 3/4" 4'-0"					3'-11 3/8" 3'-11 3/4" 4'-0"	2'-8 3/4" 2'-8 7/8" 2'-9"	4'-8 5/8" 4'-8 7/8" 4'-9 1/4"	
EM109A EM110A	2'-4" 2'-4 1/8"	4'-0 1/4" 4'-0 1/2"					4'-0 1/4" 4'-0 1/2"	2'-9" 2'-9 1/8"	4'-9 1/2" 4'-9 7/8"	
EM111A EM112A EM113A	2'-4 1/4" 2'-4 3/8" 2'-4 1/2"	4'-0 3/4" 4'-1" 4'-1 1/4"					4'-0 3/4" 4'-1" 4'-1 1/4"	2'-9 1/4" 2'-9 3/8" 2'-9 1/2"	4'-10 1/8" 4'-10 1/2" 4'-10 3/4"	
EM113A EM114A EM115A	2'-4 1/2" 2'-4 5/8" 2'-4 3/4"	4'-1 1/4" 4'-1 1/2" 4'-1 3/4"					4'-1 1/4" 4'-1 1/2" 4'-1 3/4"	2'-9 1/2" 2'-9 5/8" 2'-9 3/4"	4'-10 3/4" 4'-11" 4'-11 3/8"	
EM116A EM117A	2'-4 3/4" 2'-4 7/8"	4'-2" 4'-2 1/4"	1				4'-2" 4'-2 1/4"	2'-9 3/4" 2'-9 7/8"	4'-11 5/8" 4'-11 7/8"	
EM118A EM119A EM120A	2'-5" 2'-5 1/8" 2'-5 1/4"	4'-2 1/2" 4'-2 3/4" 4'-3"					4'-2 1/2" 4'-2 3/4" 4'-3"	2'-10" 2'-10 1/8" 2'-10 1/4"	5'-0 1/4" 5'-0 1/2" 5'-0 3/4"	
EM121A EM122A	2'-5 3/8" 2'-5 1/2"	4'-3 1/4" 4'-3 3/8"					4'-3 1/4" 4'-3 3/8"	2'-10 3/8" 2'-10 1/2"	5'-1 1/8" 5'-1 3/8"	
EM123A EM124A	2'-5 1/2" 2'-5 5/8"	4'-3 5/8" 4'-3 7/8"					4'-3 5/8" 4'-3 7/8"	2'-10 1/2" 2'-10 5/8"	5'-1 5/8" 5'-2"	
EM125A EM126A EM127A	2'-5 3/4" 2'-5 7/8" 2'-6"	4'-4 1/8" 4'-4 3/8" 4'-4 5/8"					4'-4 1/8" 4'-4 3/8" 4'-4 5/8"	2'-10 3/4" 2'-10 7/8" 2'-11"	5'-2 1/4" 5'-2 1/2" 5'-2 3/4"	
EM128A EM129A	2'-6 1/8" 2'-6 1/8"	4'-4 3/4" 4'-5"					4'-4 3/4" 4'-5"	2'-11 1/8" 2'-11 1/8"	5'-3" 5'-3 3/8"	
EM130A EM131A EM132A	2'-6 1/4" 2'-6 3/8"	4'-5 1/4" 4'-5 1/2"					4'-5 1/4" 4'-5 1/2"	2'-11 1/4" 2'-11 3/8"	5'-3 5/8" 5'-3 7/8"	
EM132A EM133A EM134A	2'-6 1/2" 2'-6 5/8" 2'-6 3/4"	4'-5 5/8" 4'-5 7/8" 4'-6 1/8"					4'-5 5/8" 4'-5 7/8" 4'-6 1/8"	2'-11 1/2" 2'-11 5/8" 2'-11 3/4"	5'-4 1/8" 5'-4 3/8" 5'-4 5/8"	
EM135A EM136A	2'-6 7/8" 2'-6 7/8"	4'-6 1/4" 4'-6 1/2"					4'-6 1/4" 4'-6 1/2"	2'-11 7/8" 2'-11 7/8"	5'-4 7/8" 5'-5 1/4"	
EM137A EM138A EM139A	2'-7" 2'-7 1/8" 2'-7 1/4"	4'-6 3/4" 4'-6 7/8" 4'-7 1/8"					4'-6 3/4" 4'-6 7/8" 4'-7 1/8"	3'-0" 3'-0 1/8" 3'-0 1/4"	5'-5 1/2" 5'-5 3/4" 5'-6"	
EM139A EM140A EM141A	2'-7 1/4" 2'-7 3/8" 2'-7 1/2"	4'-7 1/8" 4'-7 3/8" 4'-7 1/2"					4'-7 1/8" 4'-7 3/8" 4'-7 1/2"	3'-0 1/4" 3'-0 3/8" 3'-0 1/2"	5'-6" 5'-6 1/4" 5'-6 1/2"	
EM142A EM143A	2'-7 1/2" 2'-7 5/8"	4'-7 3/4" 4'-7 7/8"					4'-7 3/4" 4'-7 7/8"	3'-0 1/2" 3'-0 5/8"	5'-6 3/4" 5'-7"	01 =
EM144A EM145A EM146A	2'-7 3/4" 2'-7 7/8" 2'-8"	4'-8 1/8" 4'-8 1/4" 4'-8 1/2"					4'-8 1/8" 4'-8 1/4" 4'-8 1/2"	3'-0 3/4" 3'-0 7/8" 3'-1"	5'-7 1/4" 5'-7 1/2" 5'-7 3/4"	6'-7 3/8' 6'-7 5/8' 6'-8'
EM147A EM148A	2'-8 1/8" 2'-8 1/4"	4'-8 5/8" 4'-8 7/8"					4'-8 1/2" 4'-8 5/8" 4'-8 7/8"	3'-1 1/8" 3'-1 1/4"	5'-8" 5'-8 1/4"	6'-8 1/4' 6'-8 1/2'
EM149A EM150A	2'-8 1/4" 2'-8 3/8"	4'-9" 4'-9 1/4"					4'-9" 4'-9 1/4"	3'-1 1/4" 3'-1 3/8"	5'-8 3/8" 5'-8 5/8"	6'-8 7/8' 6'-9 1/8'
EM151A EM152A EM153A	2'-8 1/2" 2'-8 5/8" 5'-5 5/8"	4'-9 3/8" 4'-9 1/2" 2'-0 3/4"					4'-9 3/8" 4'-9 1/2" 2'-0 3/4"	3'-1 1/2" 3'-1 5/8" 3'-1 3/4"	5'-8 7/8" 5'-9 1/8" 5'-9 3/8"	6'-9 3/8' 6'-9 3/4' 6'-10'
EM153A EM154A EM155A	5'-5 5/8" 5'-5 5/8" 5'-5 5/8"	2'-0 3/4" 2'-1" 2'-1 3/8"					2'-0 3/4" 2'-1" 2'-1 3/8"	3'-1 3/4" 3'-1 7/8" 3'-1 7/8"	5'-9 3/8" 5'-9 5/8" 5'-9 7/8"	6'-10' 6'-10 1/4' 6'-10 1/2'
EM160A EM161A	5'-5 5/8" 5'-5 5/8"	2'-2 5/8" 2'-2 7/8"					2'-2 5/8" 2'-2 7/8"	3'-2 1/2" 3'-2 5/8"	5'-11" 5'-11 1/8"	6'-11 7/8' 7'-0 1/8'
EM162A EM163A EM164A	5'-5 5/8" 2'-9 3/4" 2'-9 3/4"	2'-3 1/8" 4'-11 3/8" 4'-11 1/2"					2'-3 1/8" 4'-11 3/8" 4'-11 1/2"	3'-2 5/8" 3'-2 3/4" 3'-2 3/4"	5'-11 3/8" 5'-11 5/8" 5'-11 7/8"	7'-0 3/8' 7'-0 3/4' 7'-1'
EM164A EM165A EM166A	2'-9 3/4" 2'-9 7/8" 2'-10"	4'-11 1/2" 4'-11 3/4" 4'-11 7/8"					4'-11 1/2" 4'-11 3/4" 4'-11 7/8"	3'-2 3/4" 3'-2 7/8" 3'-3"	5'-11 7/8" 6'-0" 6'-0 1/4"	7'-1' 7'-1 1/4' 7'-1 1/2'
EM167A	2'-10" 2'-10 1/8"	5'-0 1/8" 5'-0 1/4"					5'-0 1/8" 5'-0 1/4"	3'-3" 3'-3 1/8"	6'-0 1/2" 6'-0 5/8"	7'-1 7/8' 7'-2'
EM168A EM169A	2'-10 1/8"	5'-0 1/2"					5'-0 1/2"	3'-3 1/8"	6'-0 7/8"	7'-2 3/8'

	EA	ST	BRI	DG	L -	MIL	JUL	E R	UN	
<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u>A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	<u>ANV</u>	<u>H03V</u>	<u>H04\</u>
EM172A EM173A	2'-10 3/8" 2'-10 3/8"	5'-1" 5'-1 1/8"					5'-1" 5'-1 1/8"	3'-3 3/8" 3'-3 3/8"	6'-1 1/2" 6'-1 5/8"	
EM174A EM175A EM176A	2'-10 1/2" 2'-10 1/2" 2'-10 5/8"	5'-1 3/8" 5'-1 1/2" 5'-1 5/8"					5'-1 3/8" 5'-1 1/2" 5'-1 5/8"	3'-3 1/2" 3'-3 1/2" 3'-3 5/8"	6'-1 7/8" 6'-2 1/8" 6'-2 1/4"	
EM177A EM178A	2'-10 3/4" 2'-10 3/4"	5'-1 3/4" 5'-2"					5'-1 3/4" 5'-2"	3'-3 3/4" 3'-3 3/4"	6'-2 1/2" 6'-2 5/8"	
EM179A EM180A EM181A	2'-10 7/8" 2'-10 7/8" 2'-11"	5'-2 1/8" 5'-2 1/4" 5'-2 3/8"					5'-2 1/8" 5'-2 1/4" 5'-2 3/8"	3'-3 7/8" 3'-3 7/8" 3'-4"	6'-2 7/8" 6'-3" 6'-3 1/4"	
EM182A EM183A	2'-11" 2'-11 1/8"	5'-2 5/8" 5'-2 3/4"					5'-2 5/8" 5'-2 3/4"	3'-4" 3'-4 1/8"	6'-3 3/8" 6'-3 5/8"	
EM184A EM185A EM186A	2'-11 1/8" 2'-11 1/4" 2'-11 1/4"	5'-2 7/8" 5'-3" 5'-3 1/8"					5'-2 7/8" 5'-3" 5'-3 1/8"	3'-4 1/8" 3'-4 1/4" 3'-4 1/4"	6'-3 3/4" 6'-3 7/8" 6'-4 1/8"	
EM187A EM188A	2'-11 3/8" 2'-11 1/2"	5'-3 1/4" 5'-3 1/2"					5'-3 1/4" 5'-3 1/2"	3'-4 3/8" 3'-4 1/2"	6'-4 1/4" 6'-4 1/2"	
EM189A EM190A EM191A	2'-11 1/2" 2'-11 5/8" 2'-11 5/8"	5'-3 5/8" 5'-3 3/4" 5'-3 7/8"					5'-3 5/8" 5'-3 3/4" 5'-3 7/8"	3'-4 1/2" 3'-4 5/8" 3'-4 5/8"	6'-4 5/8" 6'-4 3/4" 6'-5"	
EM192A EM193A	2'-11 3/4" 2'-11 3/4"	5'-4" 5'-4 1/8"					5'-4" 5'-4 1/8"	3'-4 3/4" 3'-4 3/4"	6'-5 1/8" 6'-5 1/4"	
EM194A EM195A EM196A	2'-11 7/8" 2'-11 7/8" 3'-0"	5'-4 1/4" 5'-4 3/8" 5'-4 1/2"					5'-4 1/4" 5'-4 3/8" 5'-4 1/2"	3'-4 7/8" 3'-4 7/8" 3'-5"	6'-5 1/2" 6'-5 5/8" 6'-5 3/4"	
EM197A EM198A	3'-0" 3'-0 1/8"	5'-4 5/8" 5'-4 3/4"					5'-4 5/8" 5'-4 3/4"	3'-5" 3'-5 1/8"	6'-6" 6'-6 1/8"	
EM199A EM200A EM201A	3'-0 1/4" 3'-0 1/4" 3'-0 3/8"	5'-4 7/8" 5'-5" 5'-5"					5'-4 7/8" 5'-5" 5'-5"	3'-5 1/4" 3'-5 1/4" 3'-5 3/8"	6'-6 1/4" 6'-6 3/8" 6'-6 5/8"	
EM202A EM203A	3'-0 3/8" 3'-0 1/2"	5'-5 1/8" 5'-5 1/4"					5'-5 1/8" 5'-5 1/4"	3'-5 3/8" 3'-5 1/2"	6'-6 3/4" 6'-6 7/8"	
EM204A EM205A EM206A	3'-0 1/2" 3'-0 5/8" 3'-0 5/8"	5'-5 3/8" 5'-5 1/2" 5'-5 5/8"					5'-5 3/8" 5'-5 1/2" 5'-5 5/8"	3'-5 1/2" 3'-5 5/8" 3'-5 5/8"	6'-7" 6'-7 1/8" 6'-7 1/4"	
EM207A EM208A	3'-0 3/4" 3'-0 7/8"	5'-5 5/8" 5'-5 3/4"					5'-5 5/8" 5'-5 3/4"	3'-5 3/4" 3'-5 7/8"	6'-7 1/2" 6'-7 5/8"	
EM209A EM210A EM211A	3'-0 7/8" 3'-1" 3'-1"	5'-5 7/8" 5'-6" 5'-6 1/8"					5'-5 7/8" 5'-6" 5'-6 1/8"	3'-5 7/8" 3'-6" 3'-6"	6'-7 3/4" 6'-7 7/8" 6'-8"	
EM212A EM213A	3'-1 1/8" 3'-1 1/8"	5'-6 1/8" 5'-6 1/4"					5'-6 1/8" 5'-6 1/4"	3'-6 1/8" 3'-6 1/8"	6'-8 1/8" 6'-8 1/4"	
EM214A EM215A EM216A	3'-1 1/4" 3'-1 1/4" 3'-1 3/8"	5'-6 3/8" 5'-6 3/8" 5'-6 1/2"					5'-6 3/8" 5'-6 3/8" 5'-6 1/2"	3'-6 1/4" 3'-6 1/4" 3'-6 3/8"	6'-8 3/8" 6'-8 1/2" 6'-8 5/8"	
EM217A EM218A	3'-1 3/8" 3'-1 1/2"	5'-6 5/8" 5'-6 5/8"					5'-6 5/8" 5'-6 5/8"	3'-6 3/8" 3'-6 1/2"	6'-8 3/4" 6'-8 7/8"	
EM219A EM220A EM221A	3'-1 5/8" 3'-1 5/8" 3'-1 3/4"	5'-6 3/4" 5'-6 3/4" 5'-6 7/8"					5'-6 3/4" 5'-6 3/4" 5'-6 7/8"	3'-6 5/8" 3'-6 5/8" 3'-6 3/4"	6'-9" 6'-9 1/8" 6'-9 1/4"	
EM222A EM223A	3'-1 3/4" 3'-1 3/4"	5'-7" 5'-7 1/8"					5'-7" 5'-7 1/8"	3'-6 3/4" 3'-6 3/4"	6'-9 3/8" 6'-9 1/2"	
EM224A EM225A EM226A	3'-1 3/4" 3'-1 7/8" 3'-1 7/8"	5'-7 1/8" 5'-7 1/4" 5'-7 3/8"					5'-7 1/8" 5'-7 1/4" 5'-7 3/8"	3'-6 3/4" 3'-6 7/8" 3'-6 7/8"	6'-9 5/8" 6'-9 3/4" 6'-9 3/4"	
EM227A EM228A	3'-1 7/8" 3'-1 7/8"	5'-7 1/2" 5'-7 5/8"					5'-7 1/2" 5'-7 5/8"	3'-6 7/8" 3'-6 7/8"	6'-9 7/8" 6'-10"	
EM229A EM230A EM231A	3'-1 7/8" 3'-2" 3'-2"	5'-7 3/4" 5'-7 3/4" 5'-7 7/8"					5'-7 3/4" 5'-7 3/4" 5'-7 7/8"	3'-6 7/8" 3'-7" 3'-7"	6'-10 1/8" 6'-10 1/4" 6'-10 3/8"	
EM232A EM233A	3'-2" 3'-2"	5'-8" 5'-8 1/8"					5'-8" 5'-8 1/8"	3'-7" 3'-7"	6'-10 3/8" 6'-10 1/2"	
EM234A EM235A EM236A	3'-2" 3'-2" 3'-2 1/8"	5'-8 1/8" 5'-8 1/4" 5'-8 3/8"					5'-8 1/8" 5'-8 1/4" 5'-8 3/8"	3'-7" 3'-7" 3'-7 1/8"	6'-10 5/8" 6'-10 3/4" 6'-10 7/8"	
EM237A EM238A EM239A	3'-2 1/8" 3'-2 1/8" 3'-2 1/8"	5'-8 1/2" 5'-8 1/2" 5'-8 5/8"					5'-8 1/2" 5'-8 1/2" 5'-8 5/8"	3'-7 1/8" 3'-7 1/8" 3'-7 1/8"	6'-10 7/8" 6'-11" 6'-11 1/8"	
EM240A EM241A	3'-2 1/8" 3'-2 1/8"	5'-8 5/8" 5'-8 3/4"					5'-8 5/8" 5'-8 3/4"	3'-7 1/8" 3'-7 1/8"	6'-11 1/8" 6'-11 1/4"	
EM242A EM243A EM244A	3'-2 1/4" 3'-2 1/4" 3'-2 1/4"	5'-8 7/8" 5'-8 7/8" 5'-9"					5'-8 7/8" 5'-8 7/8" 5'-9"	3'-7 1/4" 3'-7 1/4" 3'-7 1/4"	6'-11 3/8" 6'-11 3/8" 6'-11 1/2"	
EM245A EM246A	3'-2 1/4" 3'-2 1/4" 3'-2 1/4"	5-9 5'-9" 5'-9 1/8"					5-9 5'-9" 5'-9 1/8"	3'-7 1/4" 3'-7 1/4" 3'-7 1/4"	6'-11 5/8" 6'-11 5/8"	
EM247A EM248A EM249A	3'-2 3/8" 3'-2 3/8" 3'-2 3/8"	5'-9 1/8" 5'-9 1/4" 5'-9 1/4"					5'-9 1/8" 5'-9 1/4" 5'-9 1/4"	3'-7 3/8" 3'-7 3/8" 3'-7 3/8"	6'-11 3/4" 6'-11 3/4" 6'-11 7/8"	
EM250A EM251A	3'-2 3/8" 3'-2 3/8"	5'-9 3/8" 5'-9 3/8"					5'-9 3/8" 5'-9 3/8"	3'-7 3/8" 3'-7 3/8"	7'-0" 7'-0"	
M252A M253A M254A	3'-2 3/8" 3'-2 1/2" 3'-2 1/2"	5'-9 1/2" 5'-9 1/2" 5'-9 5/8"					5'-9 1/2" 5'-9 1/2" 5'-9 5/8"	3'-7 3/8" 3'-7 1/2" 3'-7 1/2"	7'-0 1/8" 7'-0 1/8" 7'-0 1/4"	
EM255A EM256A	3'-2 1/2" 3'-2 1/2"	5'-9 5/8" 5'-9 5/8"					5'-9 5/8" 5'-9 5/8"	3'-7 1/2" 3'-7 1/2"	7'-0 1/4" 7'-0 3/8"	
EM257A EM258A EM259A	3'-2 1/2" 3'-2 5/8" 3'-2 5/8"	5'-9 3/4" 5'-9 3/4" 5'-9 3/4"					5'-9 3/4" 5'-9 3/4" 5'-9 3/4"	3'-7 1/2" 3'-7 5/8" 3'-7 5/8"	7'-0 3/8" 7'-0 3/8" 7'-0 1/2"	
EM260A EM261A	3'-2 5/8" 3'-2 5/8"	5'-9 7/8" 5'-9 7/8"					5'-9 7/8" 5'-9 7/8"	3'-7 5/8" 3'-7 5/8"	7'-0 1/2" 7'-0 5/8"	
EM262A EM263A EM264A	3'-2 5/8" 3'-2 5/8" 3'-2 3/4"	5'-9 7/8" 5'-9 7/8" 5'-10"					5'-9 7/8" 5'-9 7/8" 5'-10"	3'-7 5/8" 3'-7 5/8" 3'-7 3/4"	7'-0 5/8" 7'-0 3/4" 7'-0 3/4"	
EM265A EM266A	3'-2 3/4" 3'-2 3/4"	5'-10" 5'-10"					5'-10" 5'-10"	3'-7 3/4" 3'-7 3/4"	7'-0 3/4" 7'-0 7/8"	
EM267A EM268A EM269A	3'-2 3/4" 3'-2 3/4" 3'-2 7/8"	5'-10" 5'-10 1/8" 5'-10 1/8"					5'-10" 5'-10 1/8" 5'-10 1/8"	3'-7 3/4" 3'-7 3/4" 3'-7 7/8"	7'-0 7/8" 7'-0 7/8" 7'-1"	
EM270A EM271A	3'-2 7/8" 3'-2 7/8"	5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-7 7/8" 3'-7 7/8"	7'-1" 7'-1"	
EM272A EM273A EM274A	3'-2 7/8" 3'-2 7/8" 3'-2 7/8"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-7 7/8" 3'-7 7/8" 3'-7 7/8"	7'-1" 7'-1 1/8" 7'-1 1/8"	
EM275A EM276A	3'-3" 3'-3"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-8" 3'-8"	7'-1 1/8" 7'-1 1/8"	
EM277A EM278A EM279A	3'-3" 3'-3" 3'-3"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8" 3'-8" 3'-8"	7'-1 1/8" 7'-1 1/4" 7'-1 1/4"	
EM280A EM281A EM282A	3'-3 1/8" 3'-3 1/8" 3'-3 1/8"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8 1/8" 3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"	
EM283A EM284A	3'-3 1/8" 3'-3 1/8"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"	
EM285A EM286A EM287A	3'-3 1/4" 3'-3 1/4" 3'-3 1/4"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8 1/4" 3'-8 1/4" 3'-8 1/4"	7'-1 1/4" 7'-1 3/8" 7'-1 3/8"	
EM288A EM289A	3'-3 1/4" 3'-3 3/8"	5'-10" 5'-10"					5'-10" 5'-10"	3'-8 1/4" 3'-8 3/8"	7'-1 3/8" 7'-1 3/8"	
EM290A EM291A EM292A	3'-3 3/8" 3'-3 1/4" 3'-3 1/4"	5'-10" 5'-10" 5'-10"					5'-10" 5'-10" 5'-10"	3'-8 3/8" 3'-8 1/4" 3'-8 1/4"	7'-1 3/8" 7'-1 3/8" 7'-1 3/8"	
EM293A EM294A	3'-3 1/4" 3'-3 1/4"	5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-8 1/4" 3'-8 1/4"	7'-1 3/8" 7'-1 3/8"	
EM295A EM296A EM297A	3'-3 1/4" 3'-3 1/4" 3'-3 1/8"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8 1/4" 3'-8 1/4" 3'-8 1/8"	7'-1 3/8" 7'-1 3/8" 7'-1 1/4"	
EM298A EM299A	3'-3 1/8" 3'-3 1/8"	5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4"	
EM300A EM301A EM302A	3'-3 1/8" 3'-3 1/8" 3'-3 1/8"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8 1/8" 3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"	
EM303A EM304A	3'-3" 3'-3"	5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8"	3'-8" 3'-8"	7'-1 1/4" 7'-1 1/4"	
EM305A EM306A EM307A	3'-3" 3'-3" 3'-3"	5'-10 1/8" 5'-10 1/8" 5'-10 1/8"					5'-10 1/8" 5'-10 1/8" 5'-10 1/8"	3'-8" 3'-8" 3'-8"	7'-1 1/8" 7'-1 1/8" 7'-1 1/8"	
EM308A EM309A	3'-3" 3'-2 7/8"	5'-10" 5'-10"					5'-10" 5'-10"	3'-8" 3'-7 7/8"	7'-1 1/8" 7'-1"	
EM310A EM311A EM312A	3'-2 7/8" 3'-2 7/8" 3'-2 7/8"	5'-10" 5'-10" 5'-10"					5'-10" 5'-10" 5'-10"	3'-7 7/8" 3'-7 7/8" 3'-7 7/8"	7'-1" 7'-1" 7'-1"	
EM313A EM314A	3'-2 7/8" 3'-2 3/4"	5'-10" 5'-9 7/8"					5'-10" 5'-9 7/8"	3'-7 7/8" 3'-7 3/4"	7'-0 7/8" 7'-0 7/8"	
EM315A EM316A EM317A	3'-2 3/4" 3'-2 3/4" 3'-2 3/4"	5'-9 7/8" 5'-9 7/8" 5'-9 7/8"					5'-9 7/8" 5'-9 7/8" 5'-9 7/8"	3'-7 3/4" 3'-7 3/4" 3'-7 3/4"	7'-0 7/8" 7'-0 3/4" 7'-0 3/4"	
EM318A EM319A	3'-2 3/4" 3'-2 3/4"	5'-9 3/4" 5'-9 3/4"					5'-9 3/4" 5'-9 3/4"	3'-7 3/4" 3'-7 3/4"	7'-0 3/4" 7'-0 5/8"	
EM320A EM321A EM322A	3'-2 5/8" 3'-2 5/8" 3'-2 5/8"	5'-9 3/4" 5'-9 5/8" 5'-9 5/8"					5'-9 3/4" 5'-9 5/8" 5'-9 5/8"	3'-7 5/8" 3'-7 5/8" 3'-7 5/8"	7'-0 5/8" 7'-0 5/8" 7'-0 1/2"	
EM323A EM324A	3'-2 5/8" 3'-2 5/8"	5'-9 5/8" 5'-9 1/2"					5'-9 5/8" 5'-9 1/2"	3'-7 5/8" 3'-7 5/8"	7'-0 1/2" 7'-0 3/8"	
EM325A EM326A	3'-2 5/8" 3'-2 1/2"	5'-9 1/2" 5'-9 1/2"				1	5'-9 1/2" 5'-9 1/2"	3'-7 5/8" 3'-7 1/2"	7'-0 3/8" 7'-0 1/4"	

ΞR	UN		
<u>ANV</u>	<u>H03V</u>	<u>H04V</u>	
3'-3 3/8" 3'-3 3/8" 3'-3 1/2"	6'-1 1/2" 6'-1 5/8" 6'-1 7/8"		
3'-3 1/2" 3'-3 5/8" 3'-3 3/4"	6'-2 1/8" 6'-2 1/4" 6'-2 1/2"		
3'-3 3/4" 3'-3 7/8" 3'-3 7/8"	6'-2 5/8" 6'-2 7/8" 6'-3"		
3'-4" 3'-4" 3'-4 1/8"	6'-3 1/4" 6'-3 3/8" 6'-3 5/8"		
3'-4 1/8" 3'-4 1/4"	6'-3 3/4" 6'-3 7/8"		
3'-4 1/4" 3'-4 3/8" 3'-4 1/2"	6'-4 1/8" 6'-4 1/4" 6'-4 1/2"		
3'-4 1/2" 3'-4 5/8" 3'-4 5/8"	6'-4 5/8" 6'-4 3/4" 6'-5"		
3'-4 3/4" 3'-4 3/4" 3'-4 7/8"	6'-5 1/8" 6'-5 1/4" 6'-5 1/2"		
3'-4 7/8" 3'-5" 3'-5"	6'-5 5/8" 6'-5 3/4" 6'-6"		
3'-5 1/8" 3'-5 1/4" 3'-5 1/4"	6'-6 1/8" 6'-6 1/4" 6'-6 3/8"		
3'-5 3/8" 3'-5 3/8"	6'-6 5/8" 6'-6 3/4"		
3'-5 1/2" 3'-5 1/2" 3'-5 5/8"	6'-6 7/8" 6'-7" 6'-7 1/8"		
3'-5 5/8" 3'-5 3/4" 3'-5 7/8"	6'-7 1/4" 6'-7 1/2" 6'-7 5/8"		
3'-5 7/8" 3'-6" 3'-6"	6'-7 3/4" 6'-7 7/8" 6'-8"		
3'-6 1/8" 3'-6 1/8"	6'-8 1/8" 6'-8 1/4"		
3'-6 1/4" 3'-6 1/4" 3'-6 3/8"	6'-8 3/8" 6'-8 1/2" 6'-8 5/8"		
3'-6 3/8" 3'-6 1/2" 3'-6 5/8"	6'-8 3/4" 6'-8 7/8" 6'-9"		
3'-6 5/8" 3'-6 3/4" 3'-6 3/4"	6'-9 1/8" 6'-9 1/4" 6'-9 3/8"		
3'-6 3/4" 3'-6 3/4" 3'-6 7/8"	6'-9 1/2" 6'-9 5/8" 6'-9 3/4"		
3'-6 7/8" 3'-6 7/8"	6'-9 3/4" 6'-9 7/8"		
3'-6 7/8" 3'-6 7/8" 3'-7"	6'-10" 6'-10 1/8" 6'-10 1/4"		
3'-7" 3'-7" 3'-7"	6'-10 3/8" 6'-10 3/8" 6'-10 1/2"		
3'-7" 3'-7" 3'-7 1/8"	6'-10 5/8" 6'-10 3/4" 6'-10 7/8"		
3'-7 1/8" 3'-7 1/8" 3'-7 1/8"	6'-10 7/8" 6'-11" 6'-11 1/8"		
3'-7 1/8" 3'-7 1/8"	6'-11 1/8" 6'-11 1/4"		
3'-7 1/4" 3'-7 1/4" 3'-7 1/4"	6'-11 3/8" 6'-11 3/8" 6'-11 1/2"		
3'-7 1/4" 3'-7 1/4" 3'-7 3/8"	6'-11 5/8" 6'-11 5/8" 6'-11 3/4"		
3'-7 3/8" 3'-7 3/8" 3'-7 3/8"	6'-11 3/4" 6'-11 7/8" 7'-0"		
3'-7 3/8" 3'-7 3/8" 3'-7 1/2"	7'-0" 7'-0 1/8" 7'-0 1/8"		
3'-7 1/2" 3'-7 1/2" 3'-7 1/2"	7'-0 1/4" 7'-0 1/4" 7'-0 3/8"		
3'-7 1/2" 3'-7 5/8"	7'-0 3/8" 7'-0 3/8"		
3'-7 5/8" 3'-7 5/8" 3'-7 5/8"	7'-0 1/2" 7'-0 1/2" 7'-0 5/8"		
3'-7 5/8" 3'-7 5/8" 3'-7 3/4"	7'-0 5/8" 7'-0 3/4" 7'-0 3/4"		
3'-7 3/4" 3'-7 3/4" 3'-7 3/4"	7'-0 3/4" 7'-0 7/8" 7'-0 7/8"		
3'-7 3/4" 3'-7 7/8" 3'-7 7/8"	7'-0 7/8" 7'-1" 7'-1"		
3'-7 7/8" 3'-7 7/8" 3'-7 7/8"	7'-1" 7'-1" 7'-1 1/8"		
3'-7 7/8" 3'-8"	7'-1 1/8" 7'-1 1/8"		
3'-8" 3'-8" 3'-8"	7'-1 1/8" 7'-1 1/8" 7'-1 1/4"		
3'-8" 3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"		
3'-8 1/8" 3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"		
3'-8 1/4" 3'-8 1/4" 3'-8 1/4"	7'-1 1/4" 7'-1 3/8" 7'-1 3/8"		
3'-8 1/4" 3'-8 3/8" 3'-8 3/8"	7-1 3/8" 7'-1 3/8" 7'-1 3/8" 7'-1 3/8"		
3'-8 1/4" 3'-8 1/4"	7'-1 3/8" 7'-1 3/8"		
3'-8 1/4" 3'-8 1/4" 3'-8 1/4"	7'-1 3/8" 7'-1 3/8" 7'-1 3/8"		
3'-8 1/4" 3'-8 1/8" 3'-8 1/8"	7'-1 3/8" 7'-1 1/4" 7'-1 1/4"		
3'-8 1/8" 3'-8 1/8" 3'-8 1/8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"		
3'-8 1/8" 3'-8" 3'-8"	7'-1 1/4" 7'-1 1/4" 7'-1 1/4"		
3'-8" 3'-8" 3'-8"	7-1 1/4 7'-1 1/8" 7'-1 1/8" 7'-1 1/8"		
3'-8" 3'-7 7/8"	7'-1 1/8" 7'-1"		
3'-7 7/8" 3'-7 7/8" 3'-7 7/8"	7'-1" 7'-1" 7'-1"		
3'-7 7/8" 3'-7 3/4" 3'-7 3/4"	7'-0 7/8" 7'-0 7/8" 7'-0 7/8"		
3'-7 3/4" 3'-7 3/4" 3'-7 3/4"	7'-0 3/4" 7'-0 3/4" 7'-0 3/4"		
3'-7 3/4" 3'-7 5/8" 3'-7 5/8"	7'-0 5/8" 7'-0 5/8" 7'-0 5/8"		
3'-7 5/8" 3'-7 5/8"	7'-0 1/2" 7'-0 1/2"		
3'-7 5/8" 3'-7 5/8" 3'-7 1/2"	7'-0 3/8" 7'-0 3/8" 7'-0 1/4"		
3'-7 1/2" 3'-7 1/2" 3'-7 1/2"	7'-0 1/4" 7'-0 1/8" 7'-0 1/8"		
3'-7 1/2"	7'-0"		

5'-9 1/8" 3'-7 1/2"
5'-9 1/8" 3'-7 3/8" 6'-11
5'-9" 3'-7 3/8" 6'-11
5'-9" 3'-7 3/8" 6'-11
5'-8 7/8" 3'-7 3/8" 6'-11
5'-8 7/8" 3'-7 3/8" 6'-11
5'-8 3/4" 3'-7 3/8" 6'-11
5'-8 5/8" 3'-7 1/4" 6'-11
5'-8 5/8" 3'-7 1/4" 6'-11

EAST BRIDGE - MIDDLE RUN

ID	P01V	ST I	BRII	DG LO2	E -	MIDD		E R	HO3V	H04V
EM340A	3'-2 1/4"	5'-8 1/2"	7.07	<u>LUL</u>	7102		8 1/2"	3'-7 1/4"	6'-11 1/4"	11011
EM341A EM342A	3'-2 1/4" 3'-2 1/4"	5'-8 1/2" 5'-8 3/8"				5'-8	8 1/2" 8 3/8"	3'-7 1/4" 3'-7 1/4"	6'-11 1/4" 6'-11 1/8"	
EM343A EM344A	3'-2 1/8" 3'-2 1/8"	5'-8 1/4" 5'-8 1/4"				5'-8	8 1/4" 8 1/4"	3'-7 1/8" 3'-7 1/8"	6'-11"	
EM345A EM346A	3'-2" 3'-2"	5'-8 1/4" 5'-8 1/8"				5'-8	8 1/4" 8 1/8"	3'-7" 3'-7"	6'-10 7/8" 6'-10 3/4"	
EM347A EM348A	3'-1 7/8" 3'-1 7/8"	5'-8 1/8" 5'-8"				5'-	8 1/8" 5'-8"	3'-6 7/8" 3'-6 7/8"	6'-10 5/8" 6'-10 5/8"	
EM349A EM350A	3'-1 7/8" 3'-1 3/4"	5'-8" 5'-7 7/8"				5'-'	5'-8" 7 7/8"	3'-6 7/8" 3'-6 3/4"	6'-10 1/2" 6'-10 3/8"	
EM351A EM352A	3'-1 3/4" 3'-1 5/8"	5'-7 3/4" 5'-7 3/4"				5'-	7 3/4" 7 3/4"	3'-6 3/4" 3'-6 5/8"	6'-10 1/4" 6'-10 1/4"	
EM353A EM354A	3'-1 5/8" 3'-1 5/8"	5'-7 5/8" 5'-7 5/8"				5'-	7 5/8" 7 5/8"	3'-6 5/8" 3'-6 5/8"	6'-10 1/8" 6'-10"	
EM355A EM356A	3'-1 1/2" 3'-1 1/2"	5'-7 1/2" 5'-7 3/8"				5'-	7 1/2" 7 3/8"	3'-6 1/2" 3'-6 1/2"	6'-9 7/8" 6'-9 3/4"	
EM357A EM358A EM359A	3'-1 3/8" 3'-1 3/8" 3'-1 1/4"	5'-7 3/8" 5'-7 1/4" 5'-7 1/8"				5'-	7 3/8" 7 1/4" 7 1/8"	3'-6 3/8" 3'-6 3/8" 3'-6 1/4"	6'-9 5/8" 6'-9 1/2" 6'-9 3/8"	
EM360A EM361A	3'-1 1/4" 3'-1 1/4"	5'-7 1/8" 5'-7"					7 1/8" 7 1/8" 5'-7"	3'-6 1/4" 3'-6 1/4"	6'-9 3/8" 6'-9 1/4"	
EM362A EM363A	3'-1 1/8" 3'-1 1/8"	5'-6 7/8" 5'-6 3/4"					6 7/8" 6 3/4"	3'-6 1/8" 3'-6 1/8"	6'-9 1/8" 6'-9"	
EM364A EM365A	3'-1" 3'-1"	5'-6 3/4" 5'-6 5/8"				5'-0	6 3/4" 6 5/8"	3'-6" 3'-6"	6'-8 7/8" 6'-8 3/4"	
EM366A EM367A	3'-1" 3'-0 7/8"	5'-6 1/2" 5'-6 3/8"					6 1/2" 6 3/8"	3'-6" 3'-5 7/8"	6'-8 5/8" 6'-8 1/2"	
EM368A EM369A	3'-0 7/8" 3'-0 3/4"	5'-6 1/4" 5'-6 1/8"					6 1/4" 6 1/8"	3'-5 7/8" 3'-5 3/4"	6'-8 3/8" 6'-8 1/4"	
EM370A EM371A	3'-0 3/4" 3'-0 5/8"	5'-6 1/8" 5'-6"					6 1/8" 5'-6"	3'-5 3/4" 3'-5 5/8"	6'-8 1/8" 6'-7 7/8"	
EM372A EM373A	3'-0 5/8" 3'-0 5/8"	5'-5 7/8" 5'-5 3/4"				5'-	5 7/8" 5 3/4"	3'-5 5/8" 3'-5 5/8"	6'-7 3/4" 6'-7 5/8"	
EM374A EM375A	3'-0 1/2" 3'-0 1/2"	5'-5 5/8" 5'-5 1/2"				5'-	5 5/8" 5 1/2"	3'-5 1/2" 3'-5 1/2"	6'-7 1/2" 6'-7 3/8" 6'-7 1/4"	
EM376A EM377A EM378A	3'-0 3/8" 3'-0 3/8" 3'-0 1/4"	5'-5 3/8" 5'-5 1/4" 5'-5 1/8"				5'	5 3/8" 5 1/4" 5 1/8"	3'-5 3/8" 3'-5 3/8" 3'-5 1/4"	6'-7 1/8" 6'-7"	
EM379A EM380A	3'-0 1/4" 3'-0 1/4"	5'-5" 5'-4 7/8"					5'-5" 4 7/8"	3'-5 1/4" 3'-5 1/4"	6'-6 3/4" 6'-6 5/8"	
EM381A EM382A	3'-0 1/8" 3'-0 1/8"	5'-4 3/4" 5'-4 5/8"				5'-4	4 3/4" 4 5/8"	3'-5 1/8" 3'-5 1/8"	6'-6 1/2" 6'-6 3/8"	
EM383A EM384A	3'-0" 3'-0"	5'-4 1/2" 5'-4 3/8"					4 1/2" 4 3/8"	3'-5" 3'-5"	6'-6 1/4" 6'-6"	
EM385A EM386A	3'-0" 2'-11 7/8"	5'-4 1/4" 5'-4"					4 1/4" 5'-4"	3'-5" 3'-4 7/8"	6'-5 7/8" 6'-5 3/4"	
EM387A EM388A	2'-11 7/8" 2'-11 3/4"	5'-3 3/4"				5'-:	3 7/8" 3 3/4"	3'-4 7/8" 3'-4 3/4"	6'-5 1/2" 6'-5 3/8"	
EM389A EM390A	2'-11 3/4" 2'-11 5/8"	5'-3 5/8" 5'-3 1/2"				5'-:	3 5/8" 3 1/2"	3'-4 3/4" 3'-4 5/8"	6'-5 1/4" 6'-5 1/8"	
EM391A EM392A	2'-11 5/8"	5'-3 1/4" 5'-3 1/8"					3 1/4" 3 1/8"	3'-4 5/8" 3'-4 5/8"	6'-4 7/8" 6'-4 3/4"	
EM393A EM394A EM395A	2'-11 1/2" 2'-11 1/2" 2'-11 3/8"	5'-3" 5'-2 7/8" 5'-2 5/8"					5'-3" 2 7/8" 2 5/8"	3'-4 1/2" 3'-4 1/2" 3'-4 3/8"	6'-4 1/2" 6'-4 3/8" 6'-4 1/4"	
EM396A EM397A	2'-11 3/8" 2'-11 3/8" 2'-11 3/8"	5'-2 1/2" 5'-2 3/8"				5'-2	2 5/8 2 1/2" 2 3/8"	3'-4 3/8" 3'-4 3/8"	6'-4" 6'-3 7/8"	
EM398A EM399A	2'-11 1/4" 2'-11 1/4"	5'-2 1/8" 5'-2"					2 1/8" 5'-2"	3'-4 1/4" 3'-4 1/4"	6'-3 5/8" 6'-3 1/2"	
EM400A EM401A	2'-11 1/8" 2'-11 1/8"	5'-1 7/8" 5'-1 5/8"					1 7/8" 1 5/8"	3'-4 1/8" 3'-4 1/8"	6'-3 3/8" 6'-3 1/8"	
EM402A EM403A	2'-11" 2'-11"	5'-1 1/2" 5'-1 3/8"				5'-	1 1/2" 1 3/8"	3'-4" 3'-4"	6'-3" 6'-2 3/4"	
EM404A EM405A	2'-10 7/8" 2'-10 3/4"	5'-1 1/4" 5'-1 1/8"					1 1/4" 1 1/8"	3'-3 7/8" 3'-3 3/4"	6'-2 5/8" 6'-2 3/8"	
EM406A EM407A	2'-10 5/8" 2'-10 1/2"	5'-1" 5'-0 7/8"					5'-1" 0 7/8"	3'-3 5/8" 3'-3 1/2"	6'-2 1/8" 6'-2"	
EM408A EM409A	2'-10 1/2" 2'-10 3/8"	5'-0 3/4" 5'-0 1/2"				5'-0	0 3/4" 0 1/2"	3'-3 1/2" 3'-3 3/8"	6'-1 3/4" 6'-1 5/8"	7'-3 1/4 7'-3
EM410A EM411A	2'-10 1/4" 2'-10 1/8"	5'-0 3/8" 5'-0 1/4"				5'-0	0 3/8" 0 1/4"	3'-3 1/4" 3'-3 1/8"	6'-1 3/8" 6'-1 1/4"	7'-2 3/4 7'-2 1/2
EM412A EM413A EM414A	2'-10" 2'-10" 2'-9 7/8"	5'-0 1/8" 5'-0" 4'-11 7/8"					0 1/8" 5'-0" 1 7/8"	3'-3" 3'-3" 3'-2 7/8"	6'-1" 6'-0 3/4" 6'-0 5/8"	7'-2 1/4 7'-2 7'-1 3/4
EM415A EM416A	2'-9 3/4" 2'-9 5/8"	4'-11 5/8" 4'-11 1/2"				4'-1	1 5/8" 1 1/2"	3'-2 3/4" 3'-2 5/8"	6'-0 3/8" 6'-0 1/8"	7'-1 1/2 7'-1 1/4
EM417A EM418A	5'-5 5/8" 5'-5 5/8"	2'-3 1/4"					3 1/4" 2'-3"	3'-2 5/8" 3'-2 1/2"	6'-0" 5'-11 3/4"	7'-1 7'-0 3/4
EM419A EM424A	5'-5 5/8" 5'-5 5/8"	2'-2 3/4" 2'-1 3/8"				2'-	2 3/4" 1 3/8"	3'-2 3/8" 3'-1 7/8"	5'-11 1/2" 5'-10 3/8"	7'-0 1/2 6'-11 1/8
EM425A EM426A	5'-5 5/8" 5'-5 5/8"	2'-1 1/8" 2'-0 7/8"				2'-(1 1/8" 0 7/8"	3'-1 3/4" 3'-1 5/8"	5'-10 1/4" 5'-10"	6'-10 7/8 6'-10 5/8
EM427A EM428A	2'-8 5/8" 2'-8 1/2"	4'-9 5/8" 4'-9 1/2"				4'-9	9 5/8" 9 1/2"	3'-1 5/8" 3'-1 1/2"	5'-9 3/4" 5'-9 1/2"	6'-10 3/8
EM429A EM430A EM431A	2'-8 3/8" 2'-8 1/4" 2'-8 1/4"	4'-9 1/4" 4'-9 1/8" 4'-8 7/8"				4'-9	9 1/4" 9 1/8" 8 7/8"	3'-1 3/8" 3'-1 1/4" 3'-1 1/4"	5'-9 1/4" 5'-9" 5'-8 7/8"	6'-9 3/4 6'-9 1/2 6'-9 1/8
EM432A EM433A	2'-8 1/8" 2'-8"	4'-8 3/4" 4'-8 1/2"				4'-8	8 3/4" 8 1/2"	3'-1 1/8" 3'-1"	5'-8 5/8" 5'-8 3/8"	6'-8 7/8 6'-8 5/8
EM434A EM435A	2'-7 7/8" 2'-7 3/4"	4'-8 3/8" 4'-8 1/8"				4'-8	8 3/8" 8 1/8"	3'-0 7/8" 3'-0 3/4"	5'-8 1/8" 5'-7 7/8"	6'-8 1/4 6'-8
EM436A EM437A	2'-7 3/4" 2'-7 5/8"	4'-8" 4'-7 3/4"				4'-	4'-8" 7 3/4"	3'-0 3/4" 3'-0 5/8"	5'-7 5/8" 5'-7 3/8"	
EM438A EM439A	2'-7 1/2" 2'-7 3/8"	4'-7 1/2" 4'-7 3/8"				4'-'	7 1/2" 7 3/8"	3'-0 1/2" 3'-0 3/8"	5'-7 1/8" 5'-6 7/8"	
EM440A EM441A	2'-7 1/4" 2'-7 1/4"	4'-7 1/8" 4'-6 7/8"				4'-1	7 1/8" 6 7/8"	3'-0 1/4" 3'-0 1/4"	5'-6 5/8" 5'-6 3/8"	
EM442A EM443A EM444A	2'-7 1/8" 2'-7" 2'-6 7/8"	4'-6 3/4" 4'-6 1/2" 4'-6 1/4"				4'-(6 3/4" 6 1/2" 6 1/4"	3'-0 1/8" 3'-0" 2'-11 7/8"	5'-6 1/8" 5'-5 7/8"	
EM445A EM446A	2'-6 7/8" 2'-6 3/4"	4'-6 1/8" 4'-5 7/8"				4'-(6 1/4 6 1/8" 5 7/8"	2'-11 7/8" 2'-11 3/4"	5'-5 5/8" 5'-5 3/8" 5'-5 1/8"	
EM447A EM448A	2'-6 5/8" 2'-6 1/2"	4'-5 5/8" 4'-5 3/8"				4'-:	5 5/8" 5 3/8"	2'-11 5/8" 2'-11 1/2"	5'-4 7/8" 5'-4 1/2"	
EM449A EM450A	2'-6 3/8" 2'-6 3/8"	4'-5 1/4" 4'-5"				4'-:	5 1/4" 4'-5"	2'-11 3/8" 2'-11 3/8"	5'-4 1/4" 5'-4"	
EM451A EM452A	2'-6 1/4" 2'-6 1/8"	4'-4 3/4" 4'-4 1/2"					4 3/4" 4 1/2"	2'-11 1/4" 2'-11 1/8"	5'-3 3/4" 5'-3 1/2"	
EM453A EM454A	2'-6" 2'-5 7/8"	4'-4 1/4" 4'-4"					4 1/4" 4'-4"	2'-11" 2'-10 7/8"	5'-3 1/4" 5'-3"	
EM455A EM456A	2'-5 7/8" 2'-5 3/4"	4'-3 3/4" 4'-3 5/8"				4'-:	3 3/4" 3 5/8"	2'-10 7/8" 2'-10 3/4"	5'-2 5/8" 5'-2 3/8"	
EM457A EM458A EM459A	2'-5 5/8" 2'-5 1/2" 2'-5 1/2"	4'-3 3/8" 4'-3 1/8" 4'-2 7/8"				4'-:	3 3/8" 3 1/8" 2 7/8"	2'-10 5/8" 2'-10 1/2" 2'-10 1/2"	5'-2 1/8" 5'-1 7/8" 5'-1 1/2"	
EM460A EM461A	2'-5 3/8" 2'-5 1/4"	4'-2 5/8" 4'-2 3/8"				4'-:	2 5/8" 2 3/8"	2'-10 3/8" 2'-10 1/4"	5'-1 1/4" 5'-1"	
EM462A EM463A	2'-5 1/8" 2'-5"	4'-2 1/8" 4'-1 7/8"				4'-:	2 1/8" 1 7/8"	2'-10 1/8" 2'-10"	5'-0 3/4" 5'-0 3/8"	
EM464A EM465A	2'-4 7/8" 2'-4 3/4"	4'-1 5/8" 4'-1 1/2"					1 5/8" 1 1/2"	2'-9 7/8" 2'-9 3/4"	5'-0 1/8" 4'-11 7/8"	
EM466A EM467A	2'-4 5/8" 2'-4 1/2"	4'-1 1/4" 4'-1"					1 1/4" 4'-1"	2'-9 5/8" 2'-9 1/2"	4'-11 1/2" 4'-11 1/4"	
EM468A EM469A	2'-4 3/8" 2'-4 1/8"	4'-0 3/4" 4'-0 1/2"				4'-(0 3/4"	2'-9 3/8" 2'-9 1/8"	4'-10 7/8" 4'-10 5/8"	
EM470A EM471A EM472A	2'-4" 2'-3 7/8" 2'-3 3/4"	4'-0 3/8" 4'-0 1/8" 3'-11 7/8"				4'-(0 3/8" 0 1/8" 1 7/8"	2'-9" 2'-8 7/8" 2'-8 3/4"	4'-10 3/8" 4'-10" 4'-9 3/4"	
EM473A EM474A	2'-3 5/8" 2'-3 1/2"	3'-11 5/8" 3'-11 3/8"				3'-1	1 5/8" 1 3/8"	2'-8 5/8" 2'-8 1/2"	4'-9 3/8" 4'-9 1/8"	
EM475A EM476A	2'-3 3/8" 2'-3 1/4"	3'-11 1/8" 3'-10 7/8"				3'-1	1 1/8" 0 7/8"	2'-8 3/8" 2'-8 1/4"	4'-8 3/4" 4'-8 1/2"	
EM477A EM478A	2'-3 1/8" 2'-3"	3'-10 5/8" 3'-10 3/8"					0 5/8" 0 3/8"	2'-8 1/8" 2'-8"	4'-8 1/8" 4'-7 7/8"	
EM479A EM480A	2'-2 7/8" 2'-2 3/4"	3'-10 1/8" 3'-9 7/8"				3'-9	0 1/8" 9 7/8"	2'-7 7/8" 2'-7 3/4"	4'-7 1/2" 4'-7 1/4"	
EM481A EM482A	2'-2 1/2" 2'-2 3/8"	3'-9 5/8" 3'-9 3/8"				3'-9	9 5/8" 9 3/8"	2'-7 1/2" 2'-7 3/8"	4'-6 7/8" 4'-6 5/8"	
EM483A EM484A	2'-2 1/4" 2'-2 1/8"	3'-9 1/8" 3'-8 7/8" 3'-8 5/8"				3'-8	9 1/8" 8 7/8" 8 5/8"	2'-7 1/4" 2'-7 1/8" 2'-7"	4'-6 1/4" 4'-6"	
EM485A EM486A EM487A	2'-2" 2'-1 7/8" 2'-1 3/4"	3'-8 5/8" 3'-8 3/8" 3'-8 1/8"				3'-8	8 5/8" 8 3/8" 8 1/8"	2'-7" 2'-6 7/8" 2'-6 3/4"	4'-5 5/8" 4'-5 1/4" 4'-5"	
EM488A EM489A	2'-1 5/8" 2'-1 1/2"	3'-7 7/8" 3'-7 5/8"				3'-	7 7/8" 7 5/8"	2'-6 5/8" 2'-6 1/2"	4-5 4'-4 5/8" 4'-4 1/4"	
EM490A EM491A	2'-1 3/8" 2'-1 1/4"	3'-7 3/8" 3'-7"					7 3/8" 3'-7"	2'-6 3/8" 2'-6 1/4"	4'-4" 4'-3 5/8"	
EM492A EM493A	2'-1" 2'-0 7/8"	3'-6 3/4" 3'-6 1/2"				3'-0	6 3/4" 6 1/2"	2'-6" 2'-5 7/8"	4'-3 1/4" 4'-3"	
EM494A EM495A	2'-0 3/4" 2'-0 5/8"	3'-6 1/4" 3'-5 7/8"				3'	6 1/4" 5 7/8"	2'-5 3/4" 2'-5 5/8"	4'-2 5/8" 4'-2 1/4"	
EM496A EM497A	2'-0 1/2" 2'-0 3/8"	3'-5 5/8" 3'-5 3/8"				3'	5 5/8" 5 3/8"	2'-5 1/2" 2'-5 3/8"	4'-1 7/8" 4'-1 5/8"	
EM498A EM499A EM500A	2'-0 1/4" 2'-0 1/8" 2'-0"	3'-5 1/8" 3'-4 3/4" 3'-4 1/2"				3'-4	5 1/8" 4 3/4" 4 1/2"	2'-5 1/4" 2'-5 1/8" 2'-5"	4'-1 1/4" 4'-0 7/8" 4'-0 1/2"	
EM501A EM501A	1'-11 7/8" 1'-11 3/4"	3'-4 1/2" 3'-4 1/4" 3'-3 7/8"				3'-4	4 1/2" 4 1/4" 3 7/8"	2'-4 7/8" 2'-4 3/4"	4'-0 1/2" 4'-0 1/8" 3'-11 3/4"	
EM503A EM504A	1'-11 5/8"	3'-3 5/8" 3'-3 3/8"				3'-:	3 5/8" 3 3/8"	2'-4 5/8" 2'-4 3/8"	3'-11 1/2" 3'-11 1/8"	
EM505A EM506A	1'-11 1/4" 1'-11 1/8"	3'-3" 3'-2 3/4"				3'-:	3'-3" 2 3/4"	2'-4 1/4" 2'-4 1/8"	3'-10 3/4" 3'-10 3/8"	
EM507A	1'-11"	3'-2 3/8"				3'-:	2 3/8"	2'-4"	3'-10"	

EAST BRIDGE - MIDDLE RUN

<u>ID</u>	<u>P01V</u>	<u>L01</u>	<u> A01</u>	<u>L02</u>	<u>A02</u>	<u>L03</u>	<u>LTOT</u>	<u>ANV</u>	<u>H03V</u>	<u>H</u> (
EM512A	1'-10 3/8"	3'-0 7/8"					3'-0 7/8"	2'-3 3/8"	3'-8 1/8"	
EM513A	1'-10 1/4"	3'-0 1/2"					3'-0 1/2"	2'-3 1/4"	3'-7 3/4"	
EM514A	1'-10 1/8"	3'-0 1/4"					3'-0 1/4"	2'-3 1/8"	3'-7 3/8"	
EM515A	1'-10"	2'-11 7/8"					2'-11 7/8"	2'-3"	3'-7"	
EM516A	1'-9 3/4"	2'-11 5/8"					2'-11 5/8"	2'-2 3/4"	3'-6 5/8"	
EM517A	1'-9 5/8"	2'-11 1/4"					2'-11 1/4"	2'-2 5/8"	3'-6 1/4"	
EM518A	1'-9 1/2"	2'-10 7/8"					2'-10 7/8"	2'-2 1/2"	3'-5 7/8"	
EM519A	1'-9 3/8"	2'-10 5/8"					2'-10 5/8"	2'-2 3/8"	3'-5 1/2"	
EM520A	1'-9 1/4"	2'-10 1/4"					2'-10 1/4"	2'-2 1/4"	3'-5 1/8"	
EM521A	1'-9 1/8"	2'-9 7/8"					2'-9 7/8"	2'-2 1/8"	3'-4 3/4"	
EM522A	1'-9"	2'-9 5/8"					2'-9 5/8"	2'-2"	3'-4 3/8"	
EM523A	1'-8 7/8"	2'-9 1/4"					2'-9 1/4"	2'-1 7/8"	3'-4"	
EM524A	1'-8 3/4"	2'-8 7/8"					2'-8 7/8"	2'-1 3/4"	3'-3 5/8"	
EM525A	1'-8 5/8"	2'-8 5/8"					2'-8 5/8"	2'-1 5/8"	3'-3 1/8"	
EM526A	1'-8 1/2"	2'-8 1/4"					2'-8 1/4"	2'-1 1/2"	3'-2 3/4"	
EM527A	1'-8 1/4"	2'-7 7/8"					2'-7 7/8"	2'-1 1/4"	3'-2 3/8"	
EM528A	1'-8 1/8"	2'-7 1/2"					2'-7 1/2"	2'-1 1/8"	3'-2"	
EM529A	1'-8"	2'-7 1/4"					2'-7 1/4"	2'-1"	3'-1 5/8"	
EM530A	1'-7 7/8"	2'-6 7/8"					2'-6 7/8"	2'-0 7/8"	3'-1 1/8"	
EM531A	1'-7 3/4"	2'-6 1/2"					2'-6 1/2"	2'-0 3/4"	3'-0 3/4"	
EM532A	1'-7 5/8"	2'-6 1/8"					2'-6 1/8"	2'-0 5/8"	3'-0 3/4"	
EM533A	1'-7 1/2"	2'-5 5/8"					2'-5 5/8"	2'-0 3/8	3'-0"	
EM534A	1'-7 3/8"	2'-5 1/8"					2'-5 1/8"	2'-0 3/8"	2'-11 1/2"	
EM535A	1'-7 1/4"	2'-4 1/2"					2'-4 1/2"	2'-0 3/6	2'-11 1/8"	
EM536A	1'-7 1/4"	2'-4"					2'-4"	2'-0 1/8"	2'-10 3/4"	
EM537A	1'-6 7/8"	2'-3 3/8"					2'-3 3/8"	1'-11 7/8"	2'-10 3/4"	
EM538A	1'-6 3/4"	2'-2 3/4"					2'-2 3/4"	1'-11 3/4"	2'-9 7/8"	
EM539A	1'-6 5/8"	2'-2 1/4"					2'-2 3/4"	1'-11 5/8"	2'-9 1/2"	
EM540A	1'-6 5/6							1'-11 1/2"	2'-9 1/2"	
EM541A	1'-6 3/8"	2'-1 5/8" 2'-1 1/8"					2'-1 5/8"	1'-11 3/8"	2'-8 5/8"	
	1'-6 3/8"						2'-1 1/8"			
EM542A		2'-0 1/2"					2'-0 1/2"	1'-11 1/4"	2'-8 1/4"	
EM543A	1'-6 1/8"	2'-0"					2'-0"	1'-11 1/8"	2'-7 3/4"	
EM544A	1'-6"	1'-11 3/8"					1'-11 3/8"	1'-11"	2'-7 3/8"	
EM545A	1'-5 7/8"	1'-10 7/8"					1'-10 7/8"	1'-10 7/8"	2'-7"	
EM546A	1'-5 3/4"	1'-10 1/4"					1'-10 1/4"	1'-10 3/4"	2'-6 1/2"	
EM547A	1'-5 5/8"	1'-9 5/8"					1'-9 5/8"	1'-10 5/8"	2'-6 1/8"	
EM548A	1'-5 1/2"	1'-9 1/8"					1'-9 1/8"	1'-10 1/2"	2'-5 5/8"	
EM549A	1'-5 1/4"	1'-8 1/2"					1'-8 1/2"	1'-10 1/4"	2'-5 1/4"	
EM550A	1'-5 1/8"	1'-8"					1'-8"	1'-10 1/8"	2'-4 3/4"	
EM551A	1'-5"	1'-7 3/8"					1'-7 3/8"	1'-10"	2'-4 3/8"	
EM552A	1'-4 7/8"	1'-6 7/8"					1'-6 7/8"	1'-9 7/8"	2'-3 7/8"	
EM553A	1'-4 3/4"	1'-6 1/4"					1'-6 1/4"	1'-9 3/4"	2'-3 1/2"	
EM554A	1'-4 5/8"	1'-5 5/8"					1'-5 5/8"	1'-9 5/8"	2'-3"	
EM555A	1'-4 1/2"	1'-5 1/8"					1'-5 1/8"	1'-9 1/2"	2'-2 5/8"	
EM556A	1'-4 3/8"	1'-4 1/2"					1'-4 1/2"	1'-9 3/8"	2'-2 1/8"	
EM557A	1'-4 1/4"	1'-4"					1'-4"	1'-9 1/4"	2'-1 5/8"	
EM558A	1'-4 1/8"	1'-3 3/8"					1'-3 3/8"	1'-9 1/8"	2'-1 1/4"	
EM559A	1'-4"	1'-2 7/8"					1'-2 7/8"	1'-9"	2'-0 3/4"	
EM560A	1'-3 3/4"	1'-2 1/4"					1'-2 1/4"	1'-8 3/4"	2'-0 3/8"	
EM561A	1'-3 5/8"	1'-1 3/4"					1'-1 3/4"	1'-8 5/8"	1'-11 7/8"	
EM562A	1'-3 1/2"	1'-1 1/8"					1'-1 1/8"	1'-8 1/2"	1'-11 3/8"	
EM563A	1'-3 3/8"	1'-0 1/2"					1'-0 1/2"	1'-8 3/8"	1'-11"	
EM564A	1'-3 1/4"	1'-0"					1'-0"	1'-8 1/4"	1'-10 1/2"	
EM565A	1'-3 1/8"	0'-11 3/8"					0'-11 3/8"	1'-8 1/8"	1'-10"	
EM566A	1'-3"	0'-10 7/8"					0'-10 7/8"	1'-8"	1'-9 1/2"	
EM567A	1'-2 7/8"	0'-10 1/4"					0'-10 1/4"	1'-7 7/8"	1'-9 1/8"	
EM568A	1'-2 3/4"	0'-9 3/4"					0'-9 3/4"	1'-7 3/4"	1'-8 5/8"	
EM569A	1'-2 5/8"	0'-9 1/8"					0'-9 1/8"	1'-7 5/8"	1'-8 1/8"	
EM570A	1'-2 1/2"	0'-8 1/2"					0'-8 1/2"	1'-7 1/2"	1'-7 3/4"	
EM571A	1'-2 3/8"	0'-8"					0'-8"	1'-7 3/8"	1'-7 1/4"	
EM572A	1'-2 1/8"	0'-7 3/8"					0'-7 3/8"	1'-7 1/8"	1'-6 3/4"	
EM573A	1'-2"	0'-6 7/8"					0'-6 7/8"	1'-7"	1'-6 1/4"	
EM574A	1'-1 7/8"	0'-6 1/4"					0'-6 1/4"	1'-6 7/8"	1'-5 3/4"	
EM575A	1'-1 3/4"	0'-5 3/4"					0'-5 3/4"	1'-6 3/4"	1'-5 3/8"	
EM576A	1'-1 5/8"	0'-5 1/8"					0'-5 1/8"	1'-6 5/8"	1'-4 7/8"	
EM577A	1'-1 1/2"	0'-4 5/8"					0'-4 5/8"	1'-6 1/2"	1'-4 3/8"	

RAIL REFERENCE

3. RE: 1 / A06.10 FOR:

2. RE: RAIL ELEVATIONS FOR:

4. RE: RAIL SCHEDULES FOR:

a. RAIL VERT LAYOUT b. RAIL HORIZONTAL LAYOUT

c. RAIL VERT BENDS LAYOUT.

b. RAIL VERT LEG LENGTHS

c. RAIL VERT BEND ANGLES

d. ANCHORAGE LOCATIONS

e. RAIL HORIZONTAL LOCATIONS

1. RE: A01.00 FOR PROJECT TERMINOLOGY.

a. RAIL VERT CONFIGURATION TYPES.

a. *RAIL VERT* VERTICAL LOCATION RELATIVE TO EACH RAIL RUN BASELINE ELEVATION

RAIL VERT TYPE NOTES

- 1. RAIL "PO1V" ELEVATIONS SHALL BE USED FOR VERTICAL ALIGNMENT OF MEMBERS DURING SHOP ASSEMBLY.
- 2. VERTICAL DIMENSIONS OR ELEVATIONS STATED IN RAIL VERT SCHEDULES ARE TO BASELINE ELEVATION FOR EACH RAIL RUN. THE BASELINE ELEVATION IS ARBITRARILY SET TO 1'-0" BELOW THE LOWEST POINT OF EACH RAIL RUN AND IS UNIQUE TO EACH RAIL RUN.
- 3. ANCHORAGE SPACING LOGIC IS SPECIFIED IN DOCUMENTS, BUT ANCHORAGE IS NOT PRESENT AT EVERY RAIL VERT. BECAUSE SPECIFIC ANCHORAGE PLAN LOCATIONS ARE LAID OUT BY FABRICATOR, "ANV" ELEVATION HAS BEEN PROVIDED FOR ALL RAIL VERTS.

RAIL VERT TYPE LEGEND

"#" SYMBOL REPRESENTS A NUMBER

PO# - POINT AT CENTERPOINT OF RAIL VERT SEGMENT, LOCATED AT EITHER: RAIL VERT ENDS (TOP/BOTTOM) OR RAIL VERT BREAKS.

P0#V - POINT VERTICAL DISTANCE TO BASELINE ELEVATION

L0# - RAIL VERT SEGEMENT (LEG) OR LENGTH OF SEGMENT (LEG)

H0# - RAIL HORIZONTAL

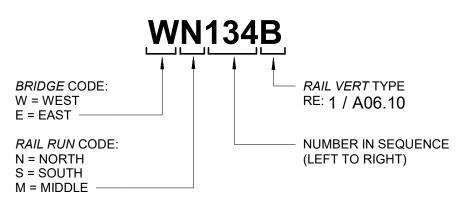
H0#V - RAIL HORIZONTAL VERTICAL DISTANCE TO BASELINE ELEVATION

A0# - ANGLE BETWEEN ADJACENT RAIL VERT SEGMENTS

AN01 - CENTERLINE OF ANCHORAGE

ANV - ANCHORAGE VERTICAL DISTANCE TO BASELINE ELEVATION

RAIL VERT ID LOGIC





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DESCRIPTION REV DATE



PROJECT NUMBER 12720.62

DATE 2020.09.17

ISSUE FOR CONSTRUCTION

NJC NJC REVIEWED: CLR SCHEDULE - EAST BRIDGE

RAIL VERTS - MIDDLE RAIL RUN SHEET NUMBER

A06.16