

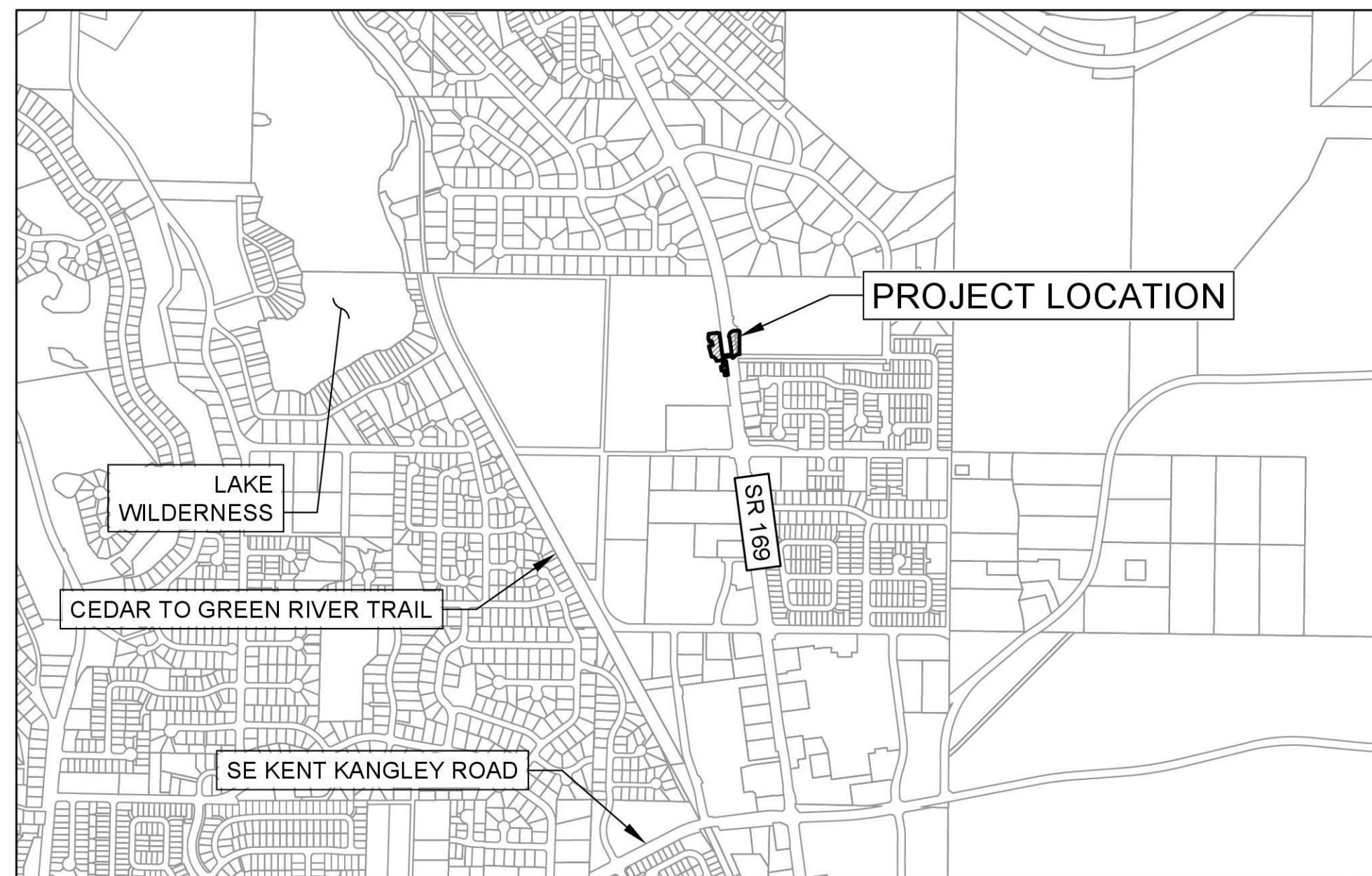


CITY OF MAPLE VALLEY T-57 SR 169 PEDESTRIAN BRIDGE

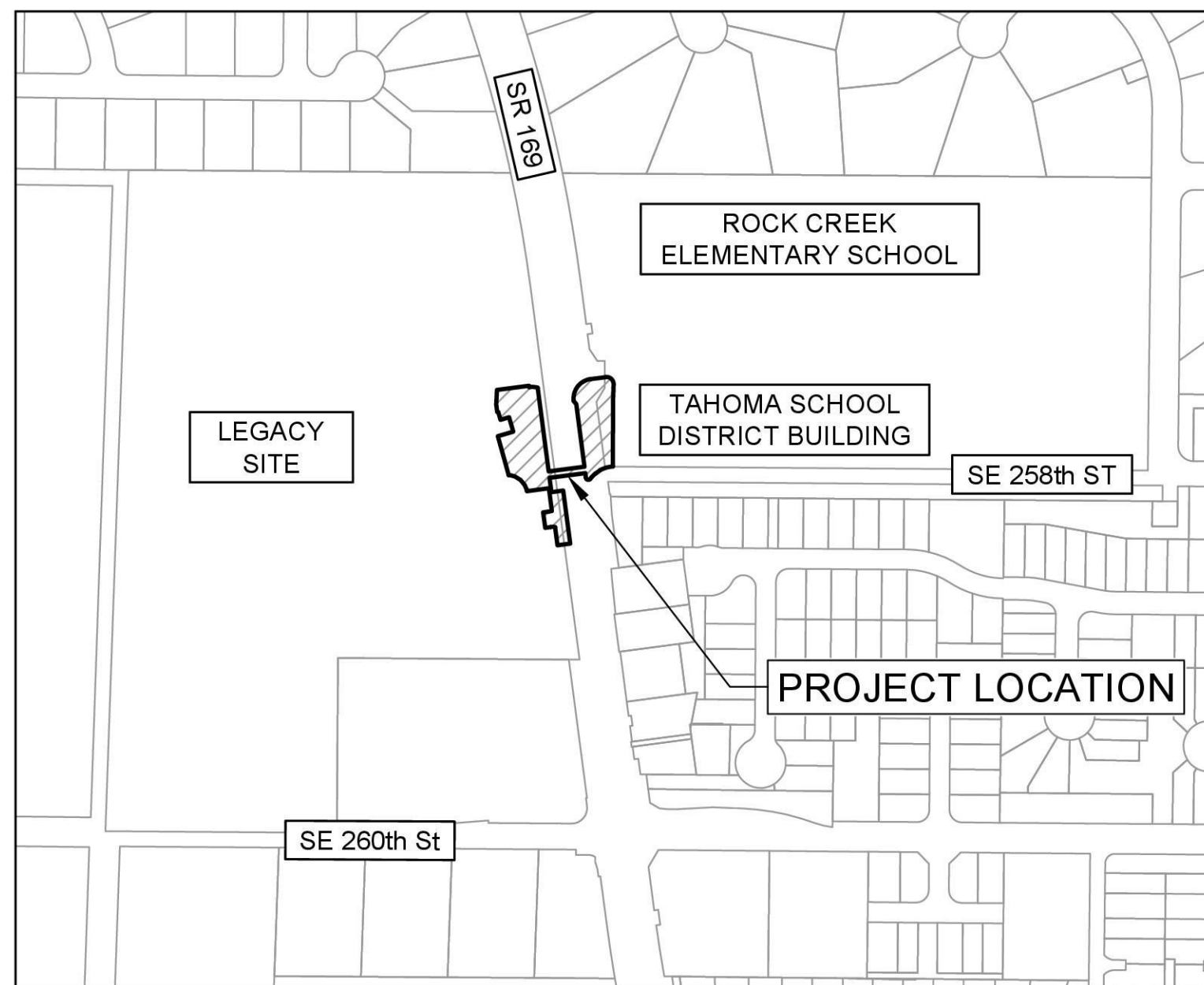
SR 169, MP 11.96 TO MP 12.45
FHWA FEDERAL PROJECT No.: TAPUL-HLP-0169(028)

BID SUBMISSION

DATE: 09/14/2026



 **SITE VICINITY MAP**
SCALE: 1" = 1000'



 **SITE LOCATION MAP**
SCALE: 1" = 300'

OWNER CONTACT INFORMATION:

OWNER:
CITY OF MAPLE VALLEY
22017 SE WAX ROAD, SUITE 200
MAPLE VALLEY, WA 98038

MAYOR:
SEAN P. KELLY

CITY COUNCIL:
SEAN P. KELLY
DANA PARNELLO
DIDEM PIERSON
LES BURBERRY
VICTORIA SCHROFF
SYD DAWSON
JOHN HERBERT

CITY MANAGER:
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EMAIL: LAURA.PHILPOT@MAPLEVALLEYWA.GOV

PUBLIC WORKS DIRECTOR:
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DEPUTY PUBLIC WORKS DIRECTOR / CITY ENGINEER:
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CITY PROJECT MANAGER:
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CONSULTANT CONTACT INFORMATION:

PRIME CONSULTANT:
V+M STRUCTURAL DESIGN, INC.

PROJECT MANAGER:
SCHAUN VALDOVINOS, PE
EMAIL: MVPO@VM-STRUCTURAL.COM

FIELD CONTACTS:

TBD

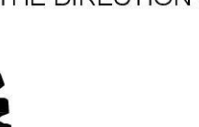
☒	APPROVED
☐	APPROVED SUBJECT TO CORRECTIONS NOTED
DATE	September 14, 2206
BY	
PUBLIC WORKS DIRECTOR	

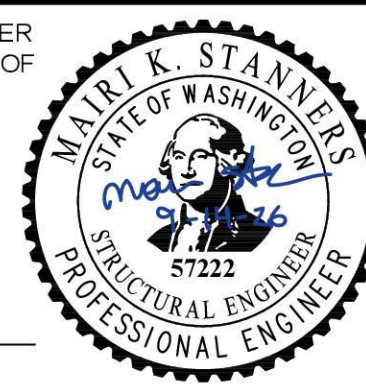
SHEET 1 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

COVER SHEET

SCALE: AS SHOWN	
FILENAME: 1262-DWG-G01	
PROJECT No: 1262	
SHEET: G-01	REV: 0

SHEET INDEX		
SHEET No.	SHEET ID	SHEET TITLE
STRUCTURAL		
1	G-01	COVER SHEET
2	G-02	SHEET INDEX
3	S-03	GENERAL NOTES - SHEET 1
4	S-04	GENERAL NOTES - SHEET 2
5	S-05	EXISTING SITE PLAN
6	S-06	SITE IMPROVEMENTS
7	S-07	BRIDGE ALIGNMENT AND PROFILE - SHEET 1
8	S-08	BRIDGE ALIGNMENT AND PROFILE - SHEET 2
9	S-09	TREE IMPACT
10	S-10	GENERAL ARRANGEMENT - SHEET 1
11	S-11	GENERAL ARRANGEMENT - SHEET 2 - EAST RAMP
12	S-12	GENERAL ARRANGEMENT - SHEET 3 - MAINSPAN
13	S-13	GENERAL ARRANGEMENT - SHEET 4 - WEST RAMP
14	S-14	GENERAL ARRANGEMENT - SHEET 5
15	S-15	GENERAL ARRANGEMENT - SHEET 6
16	S-16	EAST RAMP EMBANKMENT
17	S-17	WEST RAMP EMBANKMENT - SHEET 1
18	S-18	WEST RAMP EMBANKMENT - SHEET 2
19	S-19	DRILLED SHAFT LAYOUT
20	S-20	DRILLED SHAFT DETAILS - TYPE 1
21	S-21	DRILLED SHAFT DETAILS - TYPE 2
22	S-22	DRILLED SHAFT DETAILS - TYPE 3
23	S-23	ABUTMENT 1 - LAYOUT AND DETAILS
24	S-24	ABUTMENT 1 - REINFORCEMENT
25	S-25	COLUMN TYPE 1 - LAYOUT AND DETAILS
26	S-26	COLUMN TYPE 1 - REINFORCEMENT
27	S-27	COLUMN TYPE 2 - LAYOUT AND DETAILS
28	S-28	COLUMN TYPE 2 - REINFORCEMENT
29	S-29	COLUMN TYPE 3 - LAYOUT AND DETAILS
30	S-30	COLUMN TYPE 3 - REINFORCEMENT
31	S-31	ABUTMENT 12 - LAYOUT AND DETAILS
32	S-32	BEARING DETAILS - SHEET 1
33	S-33	BEARING DETAILS - SHEET 2
34	S-34	EAST RAMP SUPERSTRUCTURE LAYOUT
35	S-35	WEST RAMP SUPERSTRUCTURE LAYOUT
36	S-36	RAMP SUPERSTRUCTURE DETAILS - SHEET 1
37	S-37	RAMP SUPERSTRUCTURE DETAILS - SHEET 2
38	S-38	RAMP SUPERSTRUCTURE REINFORCEMENT - SHEET 1
39	S-39	RAMP SUPERSTRUCTURE REINFORCEMENT - SHEET 2
40	S-40	RAMP SUPERSTRUCTURE REINFORCEMENT - SHEET 3
41	S-41	RAMP SUPERSTRUCTURE REINFORCEMENT - SHEET 4
42	S-42	RAMP SUPERSTRUCTURE CAMBER DIAGRAM
43	S-43	EAST STAIRS - LAYOUT AND DETAILS - SHEET 1
44	S-44	EAST STAIRS - LAYOUT AND DETAILS - SHEET 2
45	S-45	EAST STAIRS - REINFORCEMENT
46	S-46	WEST STAIRS - LAYOUT AND DETAILS
47	S-47	WEST STAIRS - REINFORCEMENT
48	S-48	RAMP DECK SCORING LAYOUT
49	S-49	ARCH DETAILS - SHEET 1
50	S-50	ARCH DETAILS - SHEET 2
51	S-51	ARCH DETAILS - SHEET 3
52	S-52	ARCH DETAILS - SHEET 4
53	S-53	ARCH DETAILS - SHEET 5
54	S-54	ARCH DETAILS - SHEET 6
55	S-55	LUMINAIRE SUPPORT DETAILS
56	S-56	SHEAR KEY DETAILS
57	S-57	MAINSPAN DECK - LAYOUT AND DETAILS

SHEET INDEX		
SHEET No.	SHEET ID	SHEET TITLE
58	S-58	MAINSPAN DECK - REINFORCEMENT
59	S-59	APPROACH SLAB DETAILS
60	S-60	EXPANSION JOINT DETAILS
61	S-61	RAILING DETAILS - SHEET 1
62	S-62	RAILING DETAILS - SHEET 2
63	S-63	RAILING DETAILS - SHEET 3
64	S-64	RAILING DETAILS - SHEET 4
65	S-65	RAILING DETAILS - SHEET 5
66	S-66	RAILING DETAILS - SHEET 6
67	S-67	MAINSPAN ROOF DETAILS
68	S-68	CONSTRUCTION STAGING AREAS
69	S-69	SUGGESTED CONSTRUCTION SEQUENCE
70	S-70	BOREHOLE LOGS - SHEET 1
71	S-71	BOREHOLE LOGS - SHEET 2
CIVIL		
72	C-01	SITE PREP AND ROADWAY DETAILS
73	C-02	SITE PREPARATION AND TESC PLAN
74	C-03	TRAFFIC CONTROL PLAN
75	C-04	TRAFFIC CONTROL PLAN
76	C-05	TRAFFIC CONTROL PLAN-PED DETOUR
77	C-06	TRAFFIC CONTROL PLAN-PED DETOUR
78	C-07	TRAFFIC DETOUR PLAN-SOUTHBOUND
79	C-08	TRAFFIC DETOUR PLAN-NORTHBOUND
80	C-09	SITE & ROADWAY PLAN
81	C-10	GRADING PLAN 01
82	C-11	GRADING PLAN 02
83	C-12	GRADING PLAN 03
84	C-13	STORMWATER DETAILS
85	C-14	STORMWATER PLAN
86	C-15	SEWER PLAN AND PROFILE
URBAN DESIGN		
87	URB-01	URBAN DESIGN PLAN
88	URB-02	URBAN DESIGN DETAILS
89	URB-03	URBAN DESIGN DETAILS
90	URB-04	URBAN DESIGN DETAILS
91	URB-05	URBAN DESIGN DETAILS
92	URB-06	URBAN DESIGN DETAILS
LANDSCAPING		
93	LS-01	LANDSCAPE PLAN
94	LS-02	LEGACY SITE ENLARGEMENT DETAIL
95	LS-03	SCHOOL SITE ENLARGEMENT DETAIL
96	LS-04	LANDSCAPE SCHEDULE
97	LS-05	LANDSCAPE DETAILS
98	LS-06	LANDSCAPE DETAILS
IRRIGATION		
99	IRR-01	IRRIGATION PLAN
100	IRR-02	IRRIGATION PLAN
101	IRR-03	IRRIGATION DETAILS
102	IRR-04	IRRIGATION DETAILS
ELECTRICAL		
103	8169-25-01	LIGHTING AND ELECTRICAL - SITE PLAN & DETAILS
104	8169-25-02	LIGHTING AND ELECTRICAL - RAMP ELEVATIONS
105	8169-25-03	LIGHTING AND ELECTRICAL - MAINSPAN ELEVATION
106	8169-25-04	LIGHTING AND ELECTRICAL - DETAILS
107	8169-25-05	LIGHTING AND ELECTRICAL - SINGLE LINE DIAGRAM
108	8169-25-06	LIGHTING AND ELECTRICAL - DETAILS



REVISIONS			
REV	DATE	DESCRIPTION	BY
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PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



		STRUCTURAL DESIGN	
DESIGNED:	CHELENE WONG	DATE:	09/14/2026
DRAWN:	SCOTT VARNEY	DATE:	09/14/2026
CHECKED:	SCHAUN VALDOVINOS	DATE:	09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

SHEET INDEX

SCALE: AS SHOWN	
FILENAME: 1262-DWG-G02	
PROJECT No: 1262	
SHEET: G-02	REV: 0

GENERAL STRUCTURAL NOTES:

1. GENERAL

1.1 SPECIFIC STRUCTURAL DRAWING NOTES SHALL SUPERSEDE GENERAL STRUCTURAL NOTES WHERE THERE ARE DIFFERENCES.

1.2 DESIGN CODES AND REFERENCES:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING:

- AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009.
- AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 3rd EDITION, 2023.
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, (AASHTO LRFD) 10th EDITION, 2024.
- WSDOT BRIDGE DESIGN MANUAL (BDM), 2025.
- WSDOT STANDARD SPECIFICATIONS M41-10, 2026.
- AWS D1.5M/D1.5, BRIDGE WELDING CODE, 9th EDITION, 2025.
- AWS D1.1/D1.M, STRUCTURAL WELDING CODE, 25TH EDITION, 2025.

1.3 DESIGN LOADS:

1.3.1 DEAD LOAD:

- REINFORCED CONCRETE: 155 PCF
- STEEL: 490 PCF
- COMPACTED STRUCTURAL BACKFILL: 125 PCF

1.3.2 LIVE LOAD (UNFACTORED):

- PEDESTRIAN: 90 PSF
- WIND LOAD: PER AASHTO LRFD BRIDGE DESIGN SPECIFICATION 4.8
- MAINTENANCE VEHICLE: H-5 (NO IMPACT)

1.3.3 SEISMIC DESIGN:

- BRIDGE CLASSIFICATION: OTHER BRIDGE
- SITE CLASS: CD AND D
- SDC: D

	<u>FEE (1/210 YR)</u>	<u>SEE (1/5000 YR)</u>
PGA:	0.238g	0.479g
S _{DS} :	0.572g	1.168g
S _{D1} :	0.241g	0.571g

1.3.4 UNIFORM TEMPERATURE LOAD:

- MAXIMUM DESIGN TEMPERATURE: CONCRETE - 100° F
STEEL - 120° F
- MINIMUM DESIGN TEMPERATURE: 0° F
- REFERENCE CONSTRUCTION TEMPERATURE OF 64° F UNLESS NOTED OTHERWISE.

1.4 BRIDGE DESIGN LIFE: 75 YEARS

1.5 ALL UNITS ARE IN FEET UNO.

2. FOUNDATIONS

2.1 FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL DESIGN REPORT DATED JUNE 19, 2026 PREPARED BY GEOENGINEERS.

2.2 SOUND GROUND ELEVATIONS AND DRILLED SHAFT TIP ELEVATIONS MAY VARY. ACTUAL ELEVATIONS TO BE VERIFIED BY GEOTECHNICAL ENGINEER OF RECORD PRIOR TO START OF SHAFT CONCRETE POUR.

2.3 AS-CONSTRUCTED LOCATIONS AND ELEVATIONS OF DRILLED SHAFTS SHALL BE PROVIDED TO ENGINEER OF RECORD PRIOR TO PLACEMENT OF COLUMN REINFORCING STEEL.

3. CONCRETE

3.1 CONCRETE COVER FROM FACE OF CONCRETE TO ANY REINFORCING BAR SHALL BE AS FOLLOWS (INCHES) UNO:

- TOP OF DECK 2.25
- SOFFIT OF DECK 1.0
- SURFACES CAST AGAINST EARTH 3.0
- OTHER SURFACES NOT SPECIFIED ABOVE 2.0

3.2 ALL EXPOSED CONCRETE EDGES TO BE CHAMFERED 3/4" UNO.

3.3 CONCRETE CLASSES

- DRILLED SHAFTS 5000P
- BRIDGE DECK, CURB, AND STAIRS 4000D
- APPROACH SLABS 4000A
- ALL OTHER CONCRETE 4000

3.4 EPOXY GROUT SHALL MEET THE REQUIREMENTS OF ASTM C881 AND APPROPRIATE CLASS FOR THE SITE TEMPERATURE:

- BONDING AGENT: TYPE II, GRADE 2
- REBAR & ANCHOR BOLT: TYPE IV, GRADE 1, 2 OR 3
- LEVELING COURSE: TYPE I, GRADE 3

3.5 ROUGHENED CONCRETE SURFACES SHALL BE WET ABRASIVE BLAST CLEANED TO SOUND CONCRETE AND FREE OF LAITANCE IN ACCORDANCE WITH ASTM D4259 TO A MINIMUM PROFILE OF 0.25 INCHES.

3.6 ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED, UNO.

3.7 WALKING SURFACE OF BRIDGE DECKS, APPROACH RAMPS AND SLABS SHALL RECEIVE A TRANSVERSE BROOM FINISH AS PER WSDOT STANDARD SPECIFICATIONS SECTION 6.02.3 AND SPECIAL PROVISIONS.

3.8 CONTROL JOINT SCORING LINES SHALL BE COMPRISED OF 0.125 INCHES WIDE BY 0.25 INCHES DEEP SAW CUTS SEALED WITH POURED RUBBER JOINT SEALER.

3.9 CONTROL JOINTS SHALL BE ORIENTED AS SHOWN ON THE PLANS, TO MATCH EXISTING SIDEWALK SCORE LINES, OR AT A 5'-0" MAXIMUM SPACING FOR NEW SIDEWALKS.

3.10 ALL PERIMETER SOFFIT EDGES OF CONCRETE SHALL INCLUDE A DRIP GROOVE AS PER TYPICAL DETAIL '2' ON SHEET S-36.

3.11 ALL EXPOSED CONCRETE FOR THE BRIDGE, EXCEPT FOR THE WALKING SURFACES, SHALL BE STAINED WITH PIGMENTED SEALER PER SPECIAL PROVISIONS UNO.

4. REINFORCING STEEL

4.1 REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A706 GRADE 60, UNO.

4.2 REINFORCING STEEL DENOTED WITH THE SUFFIX "E" SHALL BE EPOXY COATED.

4.3 WELDING OF REINFORCING STEEL IS NOT PERMITTED, UNO.

4.4 SPLICING OF TRANSVERSE DECK REINFORCING BARS AT LOCATIONS OTHER THAN THOSE SPECIFIED ON THE DRAWINGS IS NOT PERMITTED.

4.5 LONGITUDINAL BAR SPLICES ON ADJACENT BARS IN THE DECK SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50% OF THE BARS ARE SPLICED AT ANY LOCATION.

4.6 MECHANICAL COUPLERS SHALL ONLY BE USED WITH APPROVAL OF ENGINEER, UNO.

4.7 ALL FIELD BENDING OF REINFORCING SHALL BE APPROVED BY ENGINEER.

5. STRUCTURAL STEEL

5.1 ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, UNO:

- WIDE FLANGE SHAPES ASTM A992 GRADE 50
- CHANNELS, ANGLES, PLATES & BARS UNO ASTM A709 GRADE 50
- RECTANGULAR HSS ASTM A500 GRADE B (46 KSI)
- ROUND HSS ASTM A500 GRADE B (42 KSI)

5.2 ALL STAINLESS STEEL, DESIGNATED AS SS, SHALL CONFORM TO ASTM A267, GRADE 304 OR 316, UNO.

5.3 STAINLESS STEEL ANCHOR BOLTS SHALL CONFORM TO ASTM F593 (Fu = 55 KSI).

5.4 ALL WELDING SHALL CONFORM TO AWS D1.5 FOR STEEL BRIDGES AND D1.1 FOR TUBE MEMBERS. WELD ELECTRODES SHALL BE 70 KSI, UNO. MINIMUM WELD SIZE SHALL BE 3/16", UNO.

5.5 FIELD WELDS SHALL BE GROUND SMOOTH WHERE SHOWN ON THE PLANS. NON-DESTRUCTIVE TESTING OF FIELD WELDS IS REQUIRED PER THE SPECIFICATIONS.

5.6 SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.

5.7 SHEAR CONNECTORS SHALL BE 0.75 INCH DIA. x 6 INCHES LONG, UNO.

5.8 WELDING OF SHEAR CONNECTORS SHALL CONFORM TO AWS D1.5.

5.9 STRUCTURAL BOLTS SHALL BE HIGH STRENGTH STRUCTURAL BOLTS CONFORMING TO ASTM F3125 GRADE A325, TYPE 1.

5.10 BOLTS SHALL BE 1.0 INCH DIA. WITH THREADS EXCLUDED FROM THE SHEAR PLANE, AND STANDARD SIZE HOLES, UNO. FAYING SURFACES SHALL COME WITH A CLASS B SURFACE CONDITION.

5.11 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 HOT DIPPED GALVANIZED, UNO.

5.12 BOLTS SHALL BE TIGHTENED BY TURN-OF-THE-NUT METHOD, UNO.

5.13 FLAT HEAD COUNTERSUNK CAP SCREWS (FSHCS) SHALL CONFORM TO ASTM F835.

5.14 ARCH STRAIGHTNESS WITHIN ITS PLANE SHALL BE WITHIN 1/1500.

5.15 EACH MEMBER SHALL CARRY AN ERECTION MARK FOR IDENTIFICATION.

5.16 CHARPY V-NOTCH FOR STEEL BRIDGE MEMBERS SHALL BE PREPARED AS PER WSDOT STANDARD SPECIFICATIONS SECTION 6-03.2.

5.17 PAINTING OF STEEL MEMBERS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 6-07. STEELWORK SHALL BE PRIMED IN THE SHOP WITH LOCATIONS REQUIRING FIELD WELDING MASKED OFF. MID AND TOP COATS SHALL BE APPLIED IN THE FIELD.

5.18 WELDS THAT ARE VISIBLE AND NOT INDICATED TO BE GROUND SMOOTH SHALL BE NEAT AND ORDERLY. THE ENGINEER RESERVES THE RIGHT TO REQUIRE GRINDING WHEN A WELD FINISH DOES NOT MEET THIS REQUIREMENT IN THE ENGINEER'S OPINION.

6. MISCELLANEOUS STEEL

6.1 MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNO.

6.2 WELDING OF MISCELLANEOUS STEEL SHALL CONFORM TO AWS D1.1. MINIMUM WELD SIZE SHALL BE 3/16", UNO.

6.3 ALL MISCELLANEOUS STEEL AND EMBEDDED PLATE SHALL BE HOT DIP GALVANIZED TO ASTM A123, UNO.

6.4 CORRUGATED STEEL DECKING SHALL BE COMPOSITE TYPE GALVANIZED ASTM A653 GRADE 33 AND SHALL HAVE COATING DESIGNATION (G90).

7. LUMBER

7.1 ALL LUMBER FRAMING MEMBERS SHALL BE DOUGLAS FIR (DF) #1 OR BETTER.

7.2 BOLT HOLES IN TIMBER MEMBERS SHALL BE BETWEEN 1/32" AND 1/16" LARGER THAN DIAMETER OF BOLT.

8. CONSTRUCTION

8.1 CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION/ERECTION. ERECTION SEQUENCE DRAWINGS AND LIFTING PLANS SHALL BE SIGNED/SEALED BY A WASHINGTON STATE LICENSED PROFESSIONAL ENGINEER AND BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO CARRYING OUT THE OPERATIONS.

8.2 AS-BUILT ELEVATIONS AND COORDINATES OF ASSEMBLED ARCH STEELWORK SHALL BE SUBMITTED TO ENGINEER FOR VERIFICATION PRIOR TO FULL SPAN LIFT. ADJUSTMENTS TO STEELWORK MAY BE REQUIRED IF PROFILE VARIES MORE THAN 1/2 INCH FROM THE TARGET DESIGN PROFILE, PRIOR TO WELDING HANGERS AND BRACING. SURVEY POINTS SHALL BE SYMMETRIC ABOUT THE CROWN AT 5 FOOT INCREMENTS AND AT HANGER CENTERLINES ALONG THE TOP EDGE OF THE ARCH RIBS AND TIE CHORDS.

8.3 THE EXACT LOCATIONS AND DEPTH OF ALL UNDERGROUND UTILITIES SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

SHEET 3 OF 108

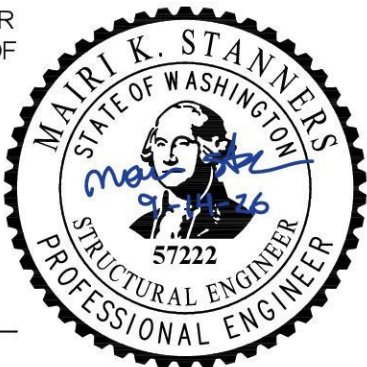


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STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG	DATE: 09/14/2026
DRAWN: SCOTT VARNEY	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL NOTES
SHEET 1

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S03_S04	
PROJECT No: 1262	
SHEET: S-03	REV: 0

9. DEFINITIONS

ABUT	= ABUTMENT
ACP	= ASPHALT CONCRETE PAVEMENT
APPROX	= APPROXIMATE
AZ	= AZIMUTH
BOT	= BOTTOM
BP	= BEGINNING OF PROJECT
BRG	= BEARING
BVC	= BEGINNING OF VERTICAL CURVE
CIP	= CAST-IN-PLACE
CJ	= CONSTRUCTION JOINT
CL	= CENTERLINE
CLR	= CLEAR
CT	= CURVE TO TANGENT
CONT	= CONTINUOUS
C/W	= COMPLETE WITH
CWD	= COVINGTON WATER DISTRICT
E	= EPOXY
EA	= EACH
E/F	= EACH FACE
EL/ELEV	= ELEVATION
EOP	= EDGE OF PAVEMENT
EP	= END OF PROJECT
EVC	= END OF VERTICAL CURVE
EA/W	= EACH WAY
EXP	= EXPANSION
HORIZ	= HORIZONTAL
HSS	= HOLLOW STRUCTURAL SECTION
INT	= INTERIOR
JUT	= JOINT UTILITY TRENCH
KSF	= KIPS PER SQUARE FOOT
KSI	= KIPS PER SQUARE INCH
LF	= LINEAR FOOT
LG	= LONG
MAX	= MAXIMUM
MIN	= MINIMUM
MISC	= MISCELLANEOUS
MSE	= MECHANICALLY STABILIZED EARTH
NB	= NORTHBOUND
NOM.	= NOMINAL VALUE
o/c	= ON CENTER
PI	= POINT OF INTERSECTION
PL	= PLATE
PSF	= POUNDS PER SQUARE FOOT
PSE	= PUGET SOUND ENERGY
PSI	= POUNDS PER SQUARE INCH
REF	= REFERENCE DIMENSION
REINF	= REINFORCEMENT
ROW	= RIGHT OF WAY
REQ'D	= REQUIRED
SB	= SOUTHBOUND
SHLD	= SHOULDER
SIM	= SIMILAR
SS	= STAINLESS STEEL
STIFF	= STIFFENER
STR	= STRAIGHT
SYM	= SYMMETRICAL
TC	= TANGENT TO CURVE
THK	= THICK
T.O.	= TOP OF
T.O.C.	= TOP OF CONCRETE
T.O.S.	= TOP OF STEEL
TYP	= TYPICAL
UNO	= UNLESS NOTED OTHERWISE
U/S	= UNDERSIDE
VERT	= VERTICAL
W/	= WITH
W/O	= WITHOUT
WP	= WORKPOINT
WSDOT	= WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

10. UTILITY LINETYPE LEGEND

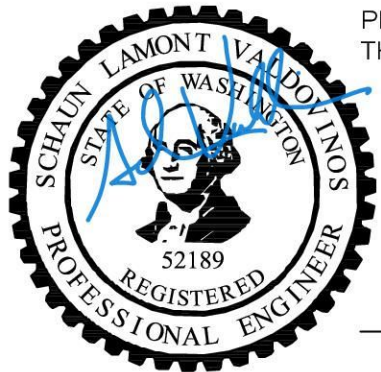
	= SANITARY SEWER LINE
	= GAS LINE
	= STORM DRAINAGE LINE
	= WATER LINE
	= UNDERGROUND POWER LINE
	= UNDERGROUND JOINT UTILITY TRENCH
	= OVERHEAD POWER LINE
	= SPARE ITS CONDUIT

11. IRRIGATION ON BRIDGE

11.1 IRRIGATION ON BRIDGE COLUMNS SHALL BE INCONSPICUOUS AND EASILY WINTERIZED.



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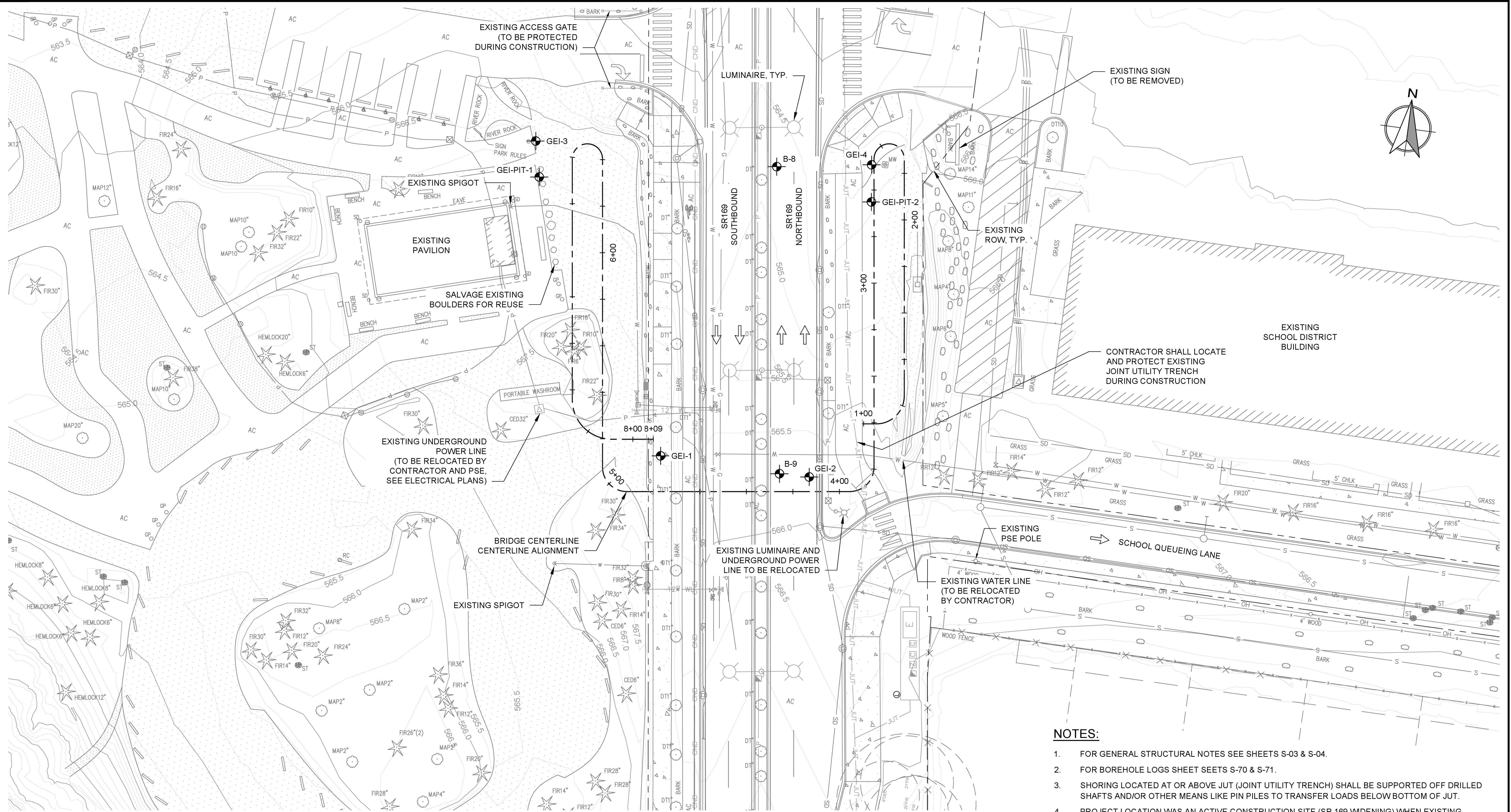
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CHECKED: <u>SCHAUN VALDOVINOS</u>	DATE: <u>09/14/2026</u>



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL NOTES
SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S03_S04	
PROJECT No: 1262	
SHEET: S-04	REV: 0



PLAN
SCALE: 1" = 20'-0"

- NOTES:
- 1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - 2. FOR BOREHOLE LOGS SHEET SEETS S-70 & S-71.
 - 3. SHORING LOCATED AT OR ABOVE JUT (JOINT UTILITY TRENCH) SHALL BE SUPPORTED OFF DRILLED SHAFTS AND/OR OTHER MEANS LIKE PIN PILES TO TRANSFER LOADS BELOW BOTTOM OF JUT.
 - 4. PROJECT LOCATION WAS AN ACTIVE CONSTRUCTION SITE (SR 169 WIDENING) WHEN EXISTING SURVEY WAS CONDUCTED, THEREFOR DISCREPANCIES MAY EXIST BETWEEN EXISTING CONDITIONS SHOWN AND WHAT IS ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR TO VERIFY EXISTING CONDITIONS SHOWN AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

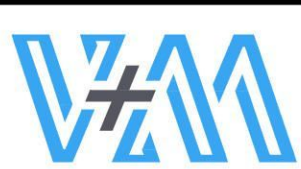
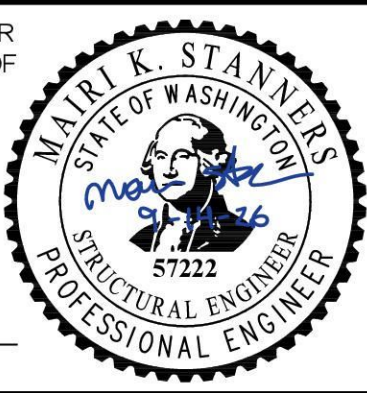
NOT ISSUED FOR
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REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



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09-14-2026
DATE



STRUCTURAL
DESIGN

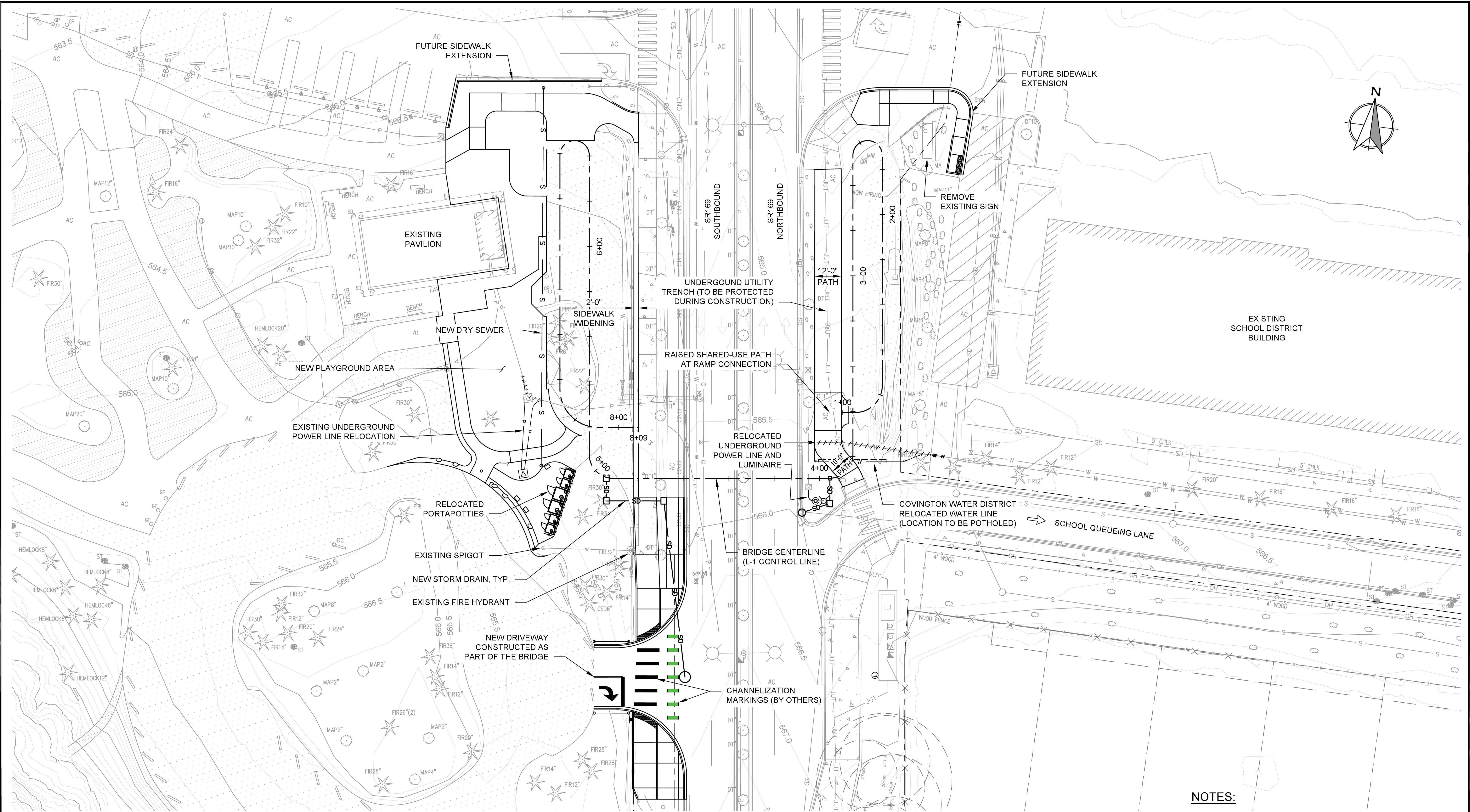
DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

EXISTING SITE PLAN

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S05	
PROJECT No: 1262	
SHEET: S-05	REV: 0



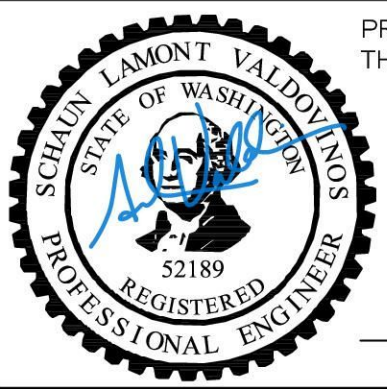
PLAN
SCALE: 1" = 20'-0"

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.

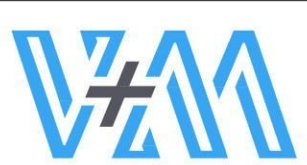
NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL
DESIGN

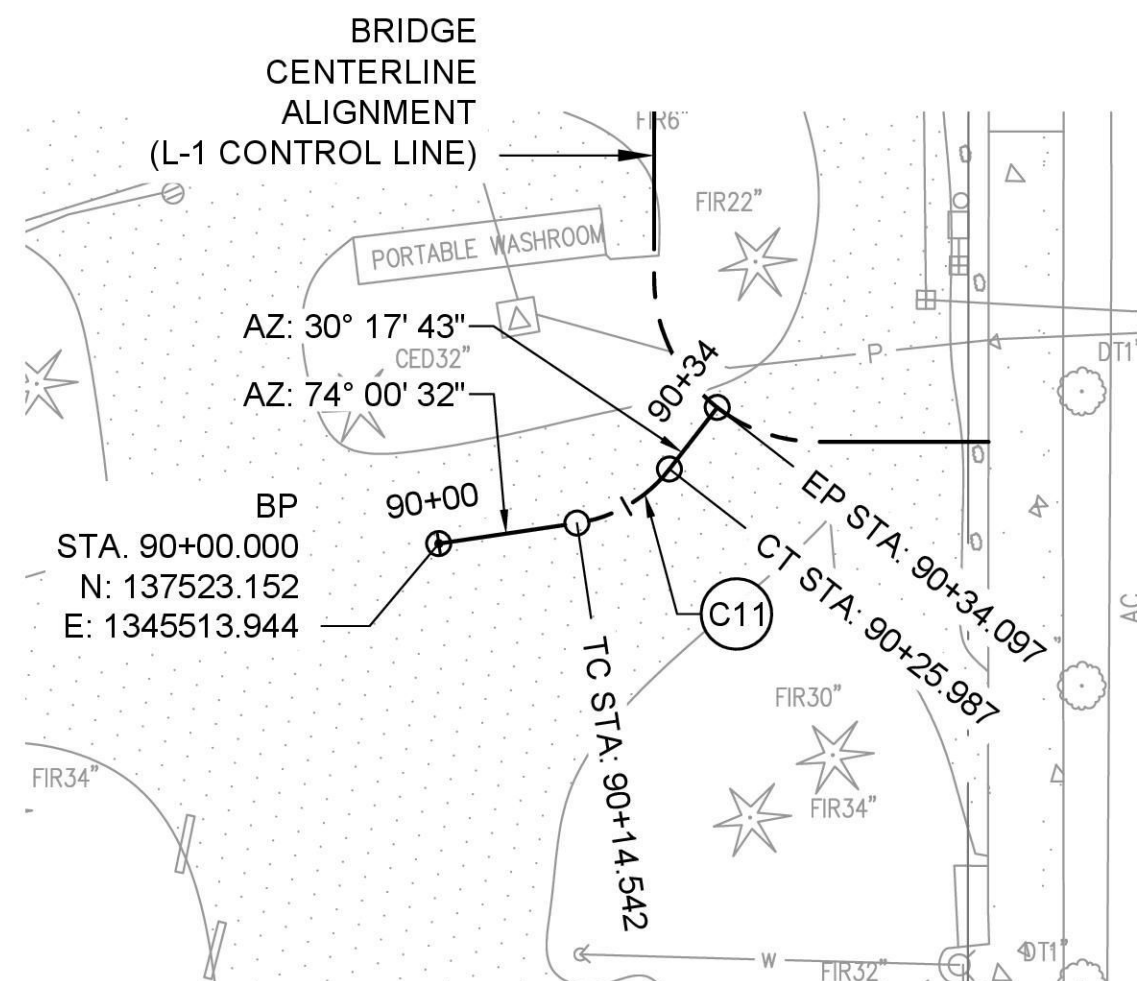
DESIGNED: CHELENE WONG DATE:
DRAWN: SCOTT VARNEY DATE:
CHECKED: SCHAUN VALDOVINOS DATE:



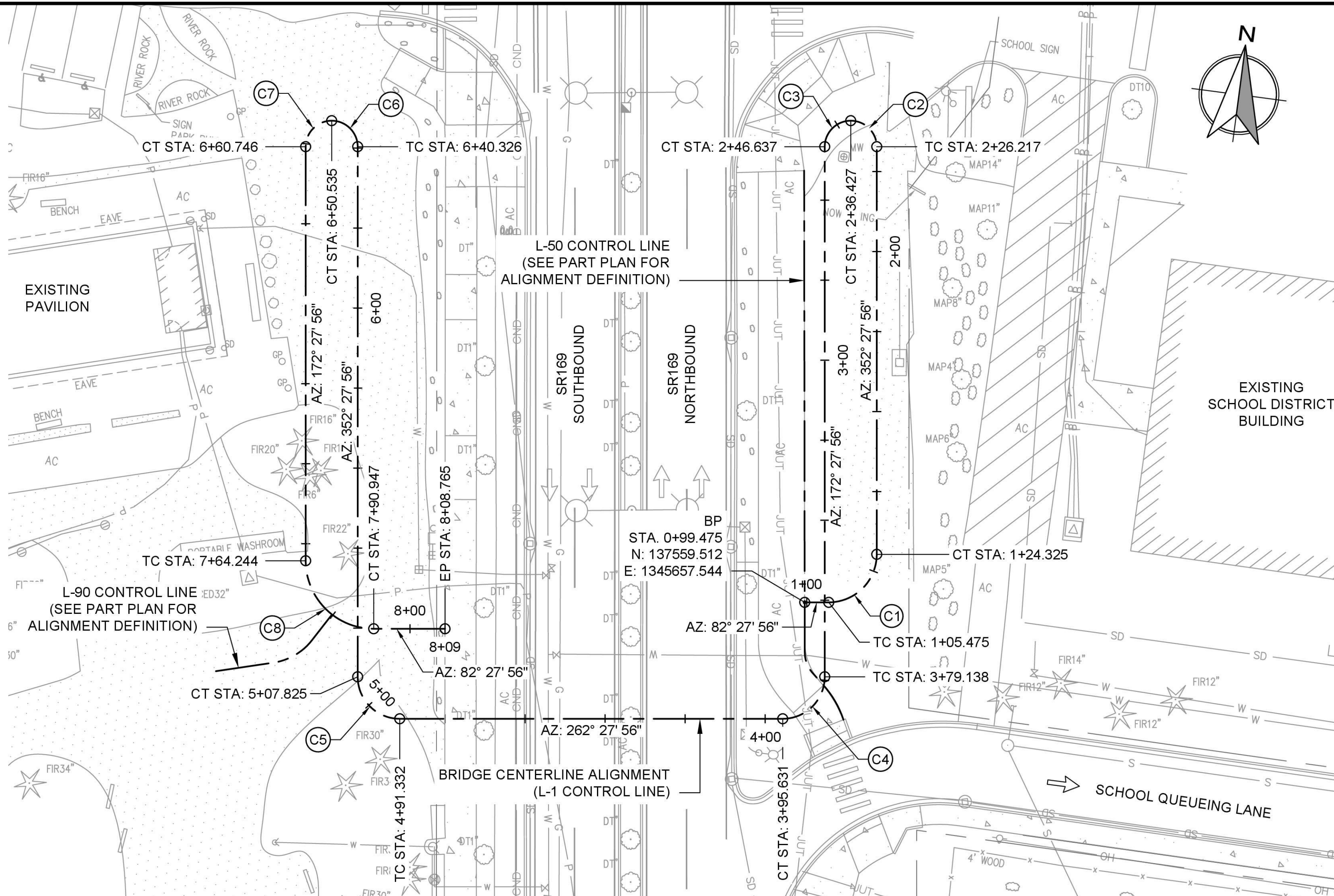
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

SITE IMPROVEMENTS

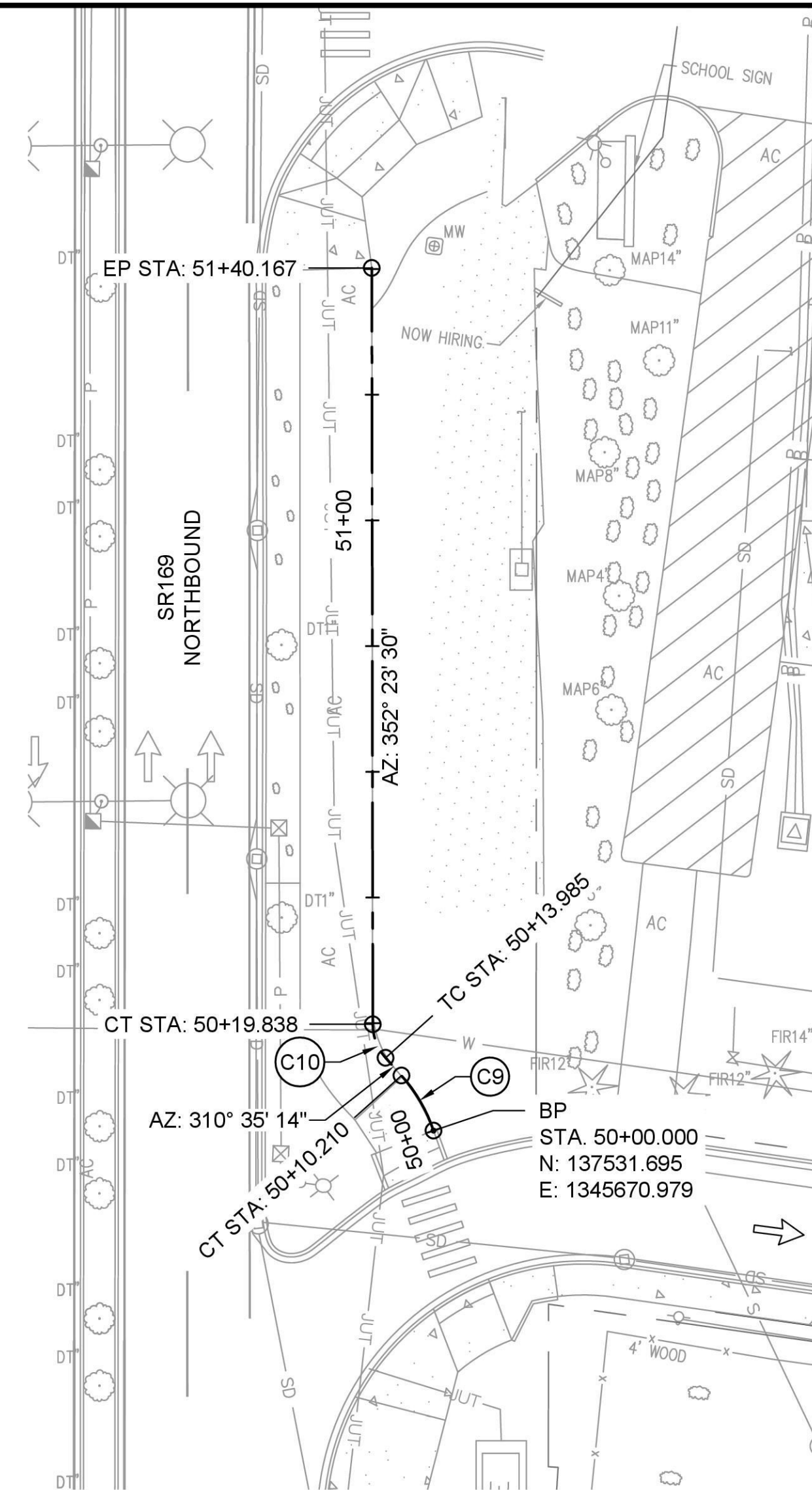
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S06	
PROJECT No: 1262	
SHEET: S-06	REV: 0



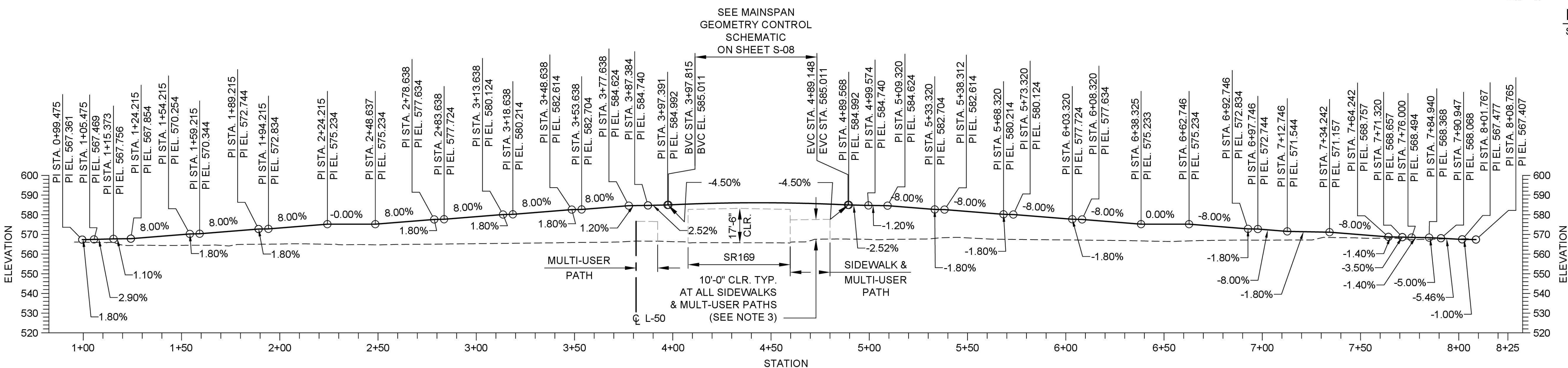
PLAN - L-90 ALIGNMENT GEOMETRY
SCALE: 1" = 20'-0"



PLAN
SCALE: 1" = 20'-0"



PLAN - L-50 ALIGNMENT GEOMETRY
SCALE: 1" = 20'-0"



PROFILE ALONG BRIDGE CENTERLINE ALIGNMENT
SCALE: 1" = 30'-0"
(UNROLLED VIEW LOOKING SOUTH)

LEGEND:

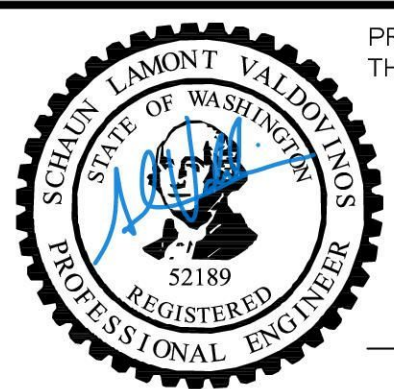
- ALIGNMENT CURVE,
SEE TABLES 08-1, 08-2, & 08-3
ON SHEET S-08 FOR CURVE GEOMETRY.

NOTES:

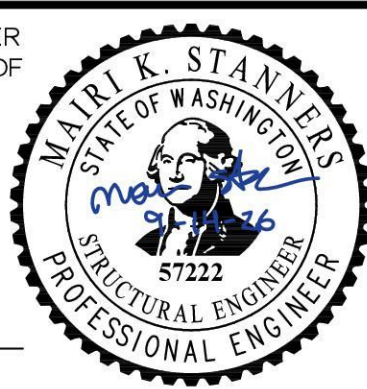
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- ADDITIONAL SURVEY WILL BE REQUIRED AS DEFINED IN THE PROJECT SPECIAL PROVISIONS.
- 10'-0" VERTICAL CLEARANCE IS LOCALLY REDUCED TO 9'-6" MIN. IN THE VICINITY OF L-1 CONTROL LINE STA. 2+41 (NORTHWEST CORNER OF EAST RAMP SWITCHBACK). VERTICAL CLEARANCE IS ALSO LOCALLY REDUCED TO 7'-1" IN THE VICINITY OF STA. 6+50 (NORTH EDGE OF WEST RAMP SWITCHBACK).

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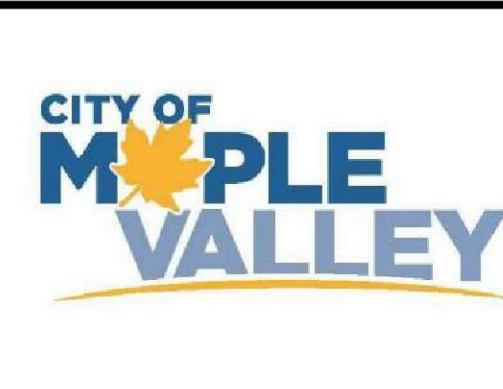
REVISIONS			
REV	DATE	DESCRIPTION	BY
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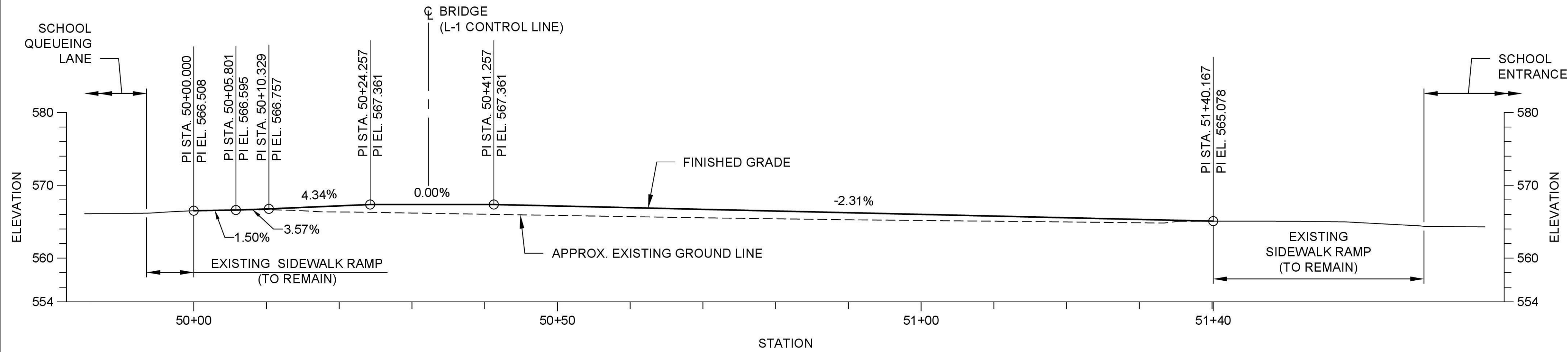
PREPARED UNDER
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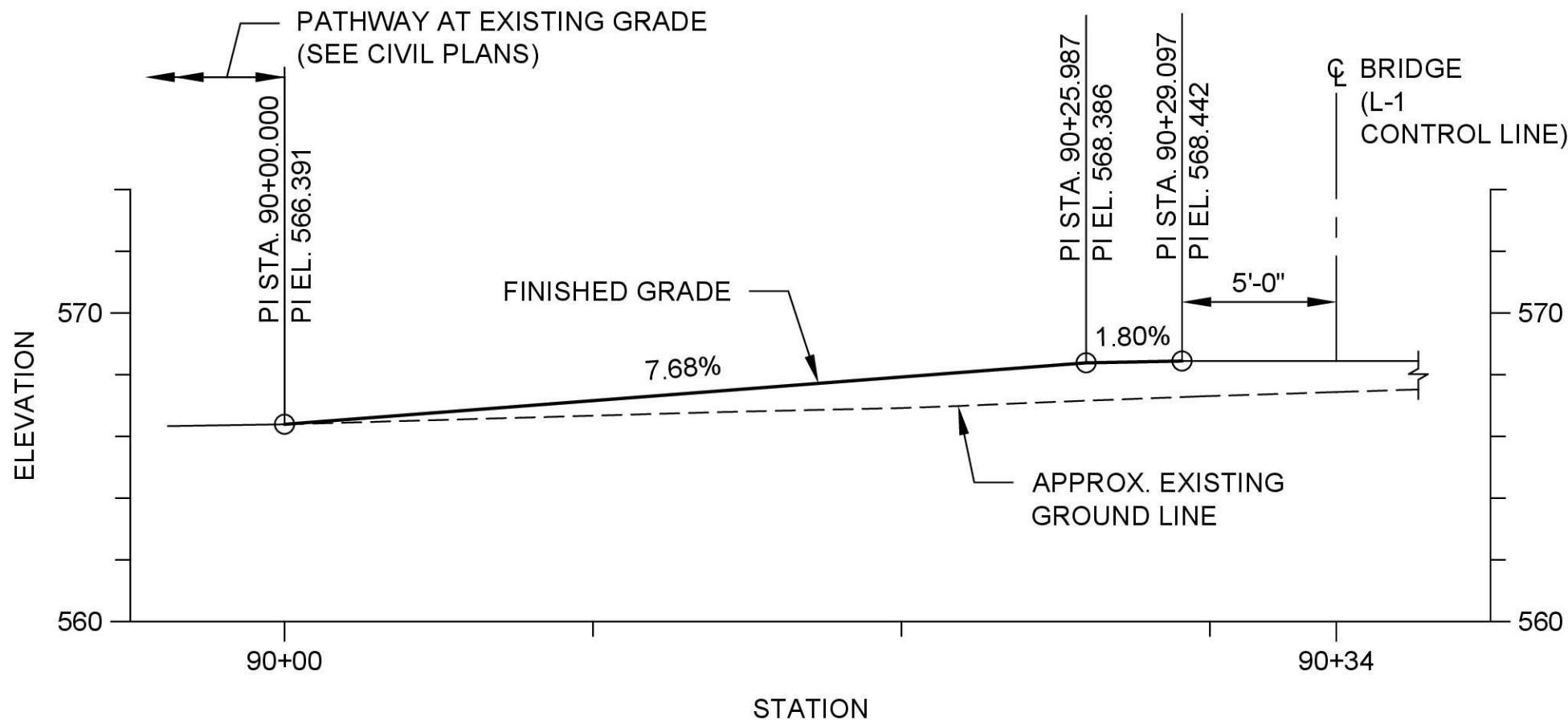
STRUCTURAL DESIGN	
DESIGNED: CHELENE WONG	DATE: 09/14/2026
DRAWN: SCOTT VARNEY	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026



CITY OF MAPLE VALLEY	
T-57 SR 169 PEDESTRIAN BRIDGE	
BRIDGE ALIGNMENT AND PROFILE	
SHEET 1	
SCALE: AS SHOWN	FILENAME: 1262-DWG-S07_S08
PROJECT No:	1262
SHEET:	REV:
S-07	0



PROFILE ALONG L-50 ALIGNMENT (LOOKING WEST)
SCALE: 1" = 10'-0"



PROFILE ALONG L-90 ALIGNMENT (LOOKING NORTH)
SCALE: 1" = 10'-0"

TABLE 08-1: BRIDGE CENTERLINE ALIGNMENT CURVE GEOMETRY

CURVE #	CURVE START STATION	CURVE START NORTHING	CURVE START EASTING	Δ ANGLE (°)	RADIUS	LENGTH ALONG CURVE	MID-ORDINATE	CHORD LENGTH	CHORD DIRECTION	PI NORTHING	PI EASTING
C1	1+05.475	137560.298	1345663.492	90	12.00	18.850	3.515	16.971	37° 27' 55"	137561.872	1345675.388
C2	2+26.217	137674.780	1345680.454	90	6.50	10.210	1.904	9.192	307° 27' 55"	137681.224	1345659.602
C3	2+36.427	137680.372	1345653.158	90	6.50	10.210	1.904	9.192	217° 27' 55"	137679.519	1345646.714
C4	3+79.138	137541.718	1345664.941	90	10.50	16.493	3.075	14.849	217° 27' 55"	137531.309	1345666.317
C5	4+91.332	137517.384	1345561.034	90	10.50	16.493	3.075	14.849	307° 27' 56"	137516.007	1345550.625
C6	6+40.326	137657.773	1345531.874	90	6.50	10.209	1.904	9.191	307° 27' 56"	137664.216	1345531.022
C7	6+50.535	137663.364	1345524.578	90	6.50	10.210	1.904	9.192	217° 27' 56"	137662.511	1345518.134
C8	7+64.244	137553.463	1345532.557	90	17.00	26.704	4.979	24.042	127° 27' 56"	137536.610	1345534.786

TABLE 08-2: L-50 ALIGNMENT CURVE GEOMETRY

CURVE #	CURVE START STATION	CURVE START NORTHING	CURVE START EASTING	Δ ANGLE (°)	RADIUS	LENGTH ALONG CURVE	MID-ORDINATE	CHORD LENGTH	CHORD DIRECTION	PI NORTHING	PI EASTING
C9	50+00.000	137531.695	1345670.979	23.34	25.07	10.210	0.518	10.140	322° 16' 16"	137536.346	1345668.705
C10	50+13.985	137542.171	1345661.907	41.92	8.00	5.853	0.529	5.723	331° 32' 46"	137544.165	1345659.580

TABLE 08-3: L-90 ALIGNMENT CURVE GEOMETRY

CURVE #	CURVE START STATION	CURVE START NORTHING	CURVE START EASTING	Δ ANGLE (°)	RADIUS	LENGTH ALONG CURVE	MID-ORDINATE	CHORD LENGTH	CHORD DIRECTION	PI NORTHING	PI EASTING
C11	90+14.542	137527.158	1345527.924	43.71	15.00	11.444	1.078	11.169	52° 09' 08"	137528.816	1345533.708

TABLE 08-4: BRIDGE CENTERLINE ALIGNMENT SUPERELEVATION DATA

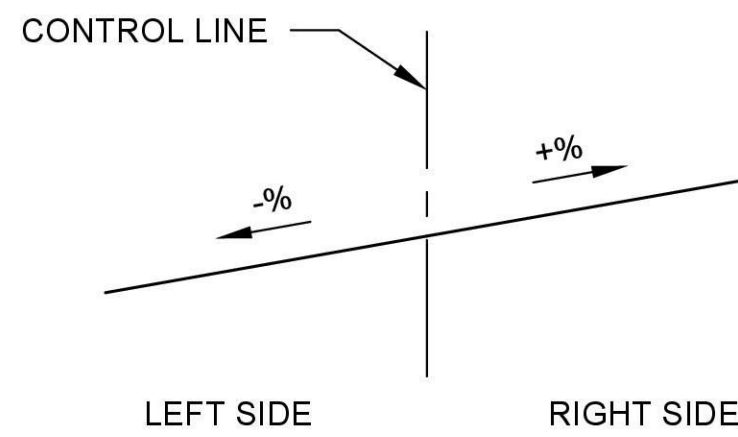
STATION	LEFT SIDE	RIGHT SIDE
1+00	0%	0%
1+05	0%	0%
1+24	-1.80%	+1.80%
2+49	-1.80%	+1.80%
3+78	0%	0%
4+01	0%	0%
4+23	-1.67%	-1.67%
4+63	-1.67%	-1.67%
4+86	0%	0%
5+09	0%	0%
6+38	-1.80%	+1.80%
7+34	-1.80%	+1.80%
7+64	0%	0%
8+01	-0.7%	+1.1%
8+06	-0.7% (REF.) (TO MATCH EXISTING)	+1.1% (REF.) (TO MATH EXISTING)

TABLE 08-5: L50 ALIGNMENT SUPERELEVATION DATA

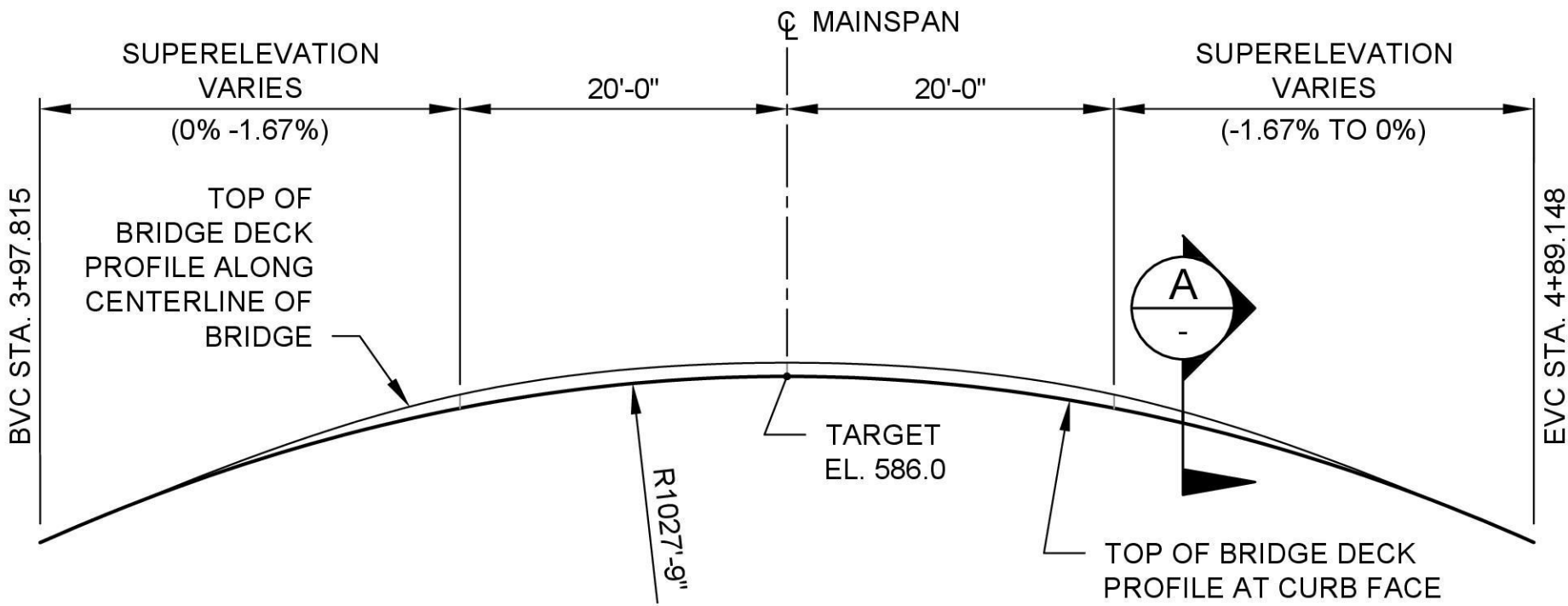
STATION	LEFT SIDE
50+00	-0.03% (REF.) (TO MATCH EXISTING)
50+14	-1.5%
50+41	-1.5%
51+40	-1.2% (REF.) (TO MATCH EXISTING)

TABLE 08-6: L90 ALIGNMENT SUPERELEVATION DATA

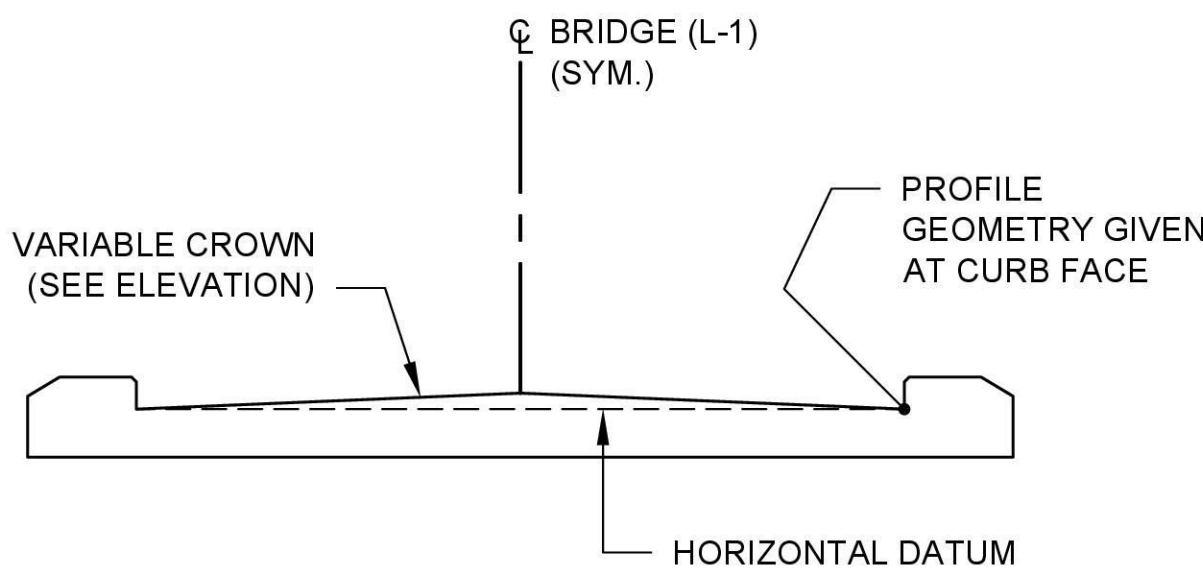
STATION	LEFT SIDE
90+00	-0.5% (REF.) (TO MATCH EXISTING)
90+14	-0.5%
90+34	-1.1% (TO MATCH WEST RAMP)



SUPER ELEVATION KEY
(LOOKING UPSTATION)



MAINSPAN GEOMETRY CONTROL SCHEMATIC ELEVATION
N.T.S.



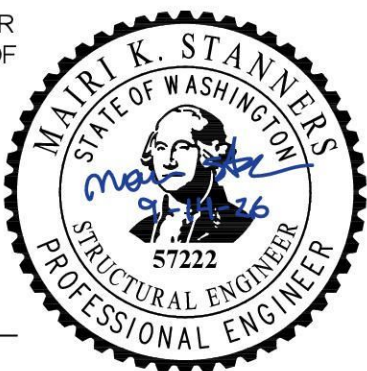
MAINSPAN SCHEMATIC SECTION
N.T.S.

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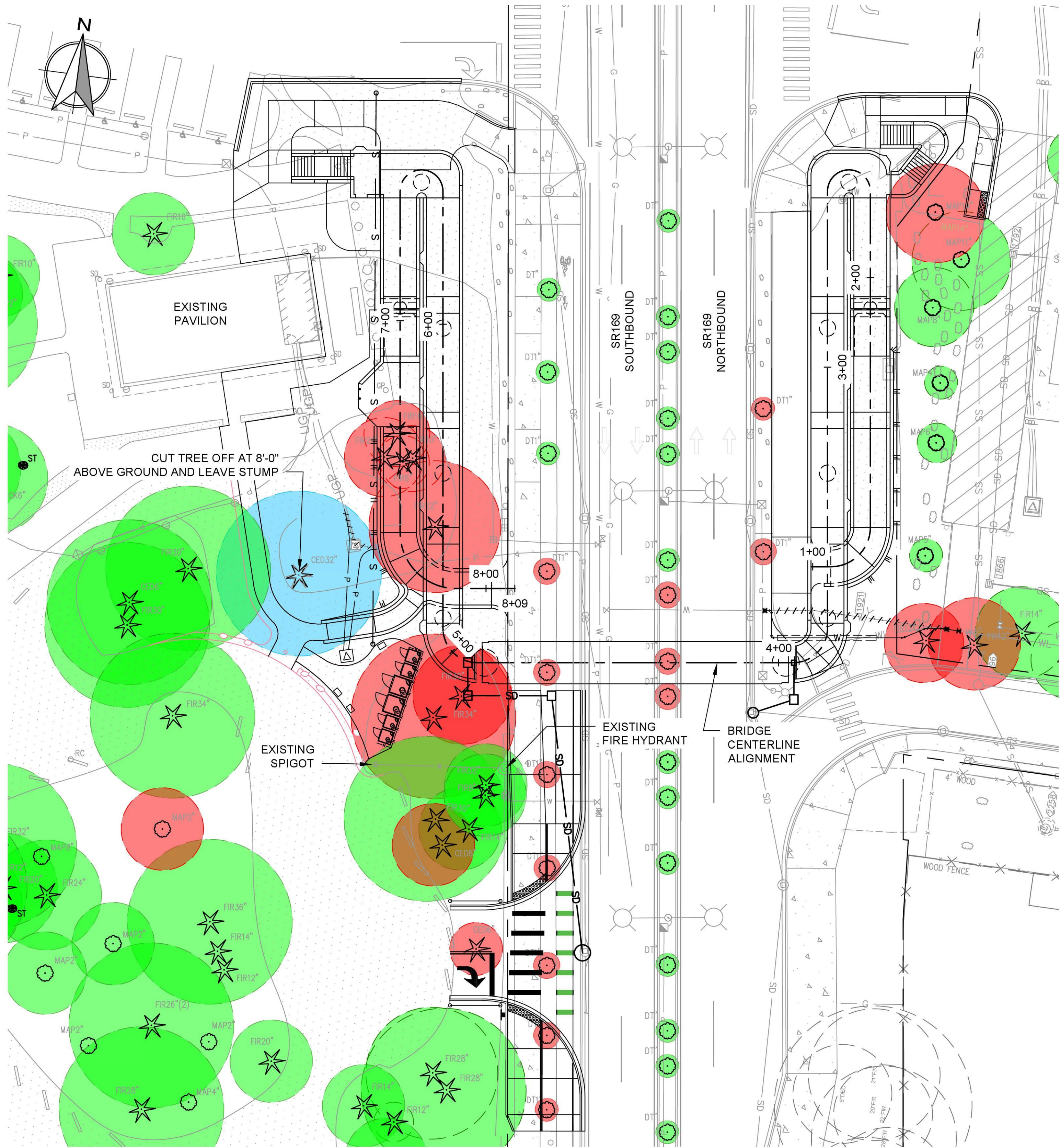
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
BRIDGE ALIGNMENT AND PROFILE
SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S07_S08	
PROJECT No: 1262	
SHEET: S-08	REV: 0



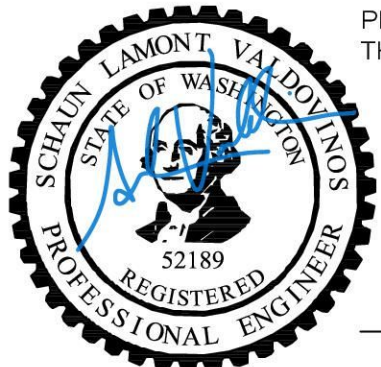
PLAN
SCALE: 1" = 20'-0"

- LEGEND:**
- TREE TO REMAIN
 - TREE TO BE TRIMMED
 - TREE TO BE REMOVED

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.

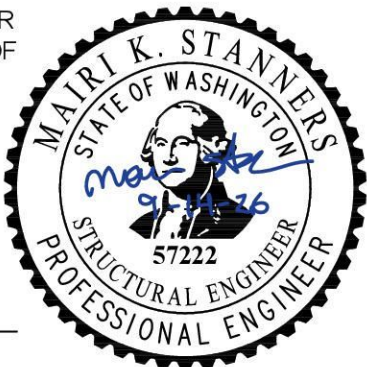
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REV	DATE	DESCRIPTION	BY
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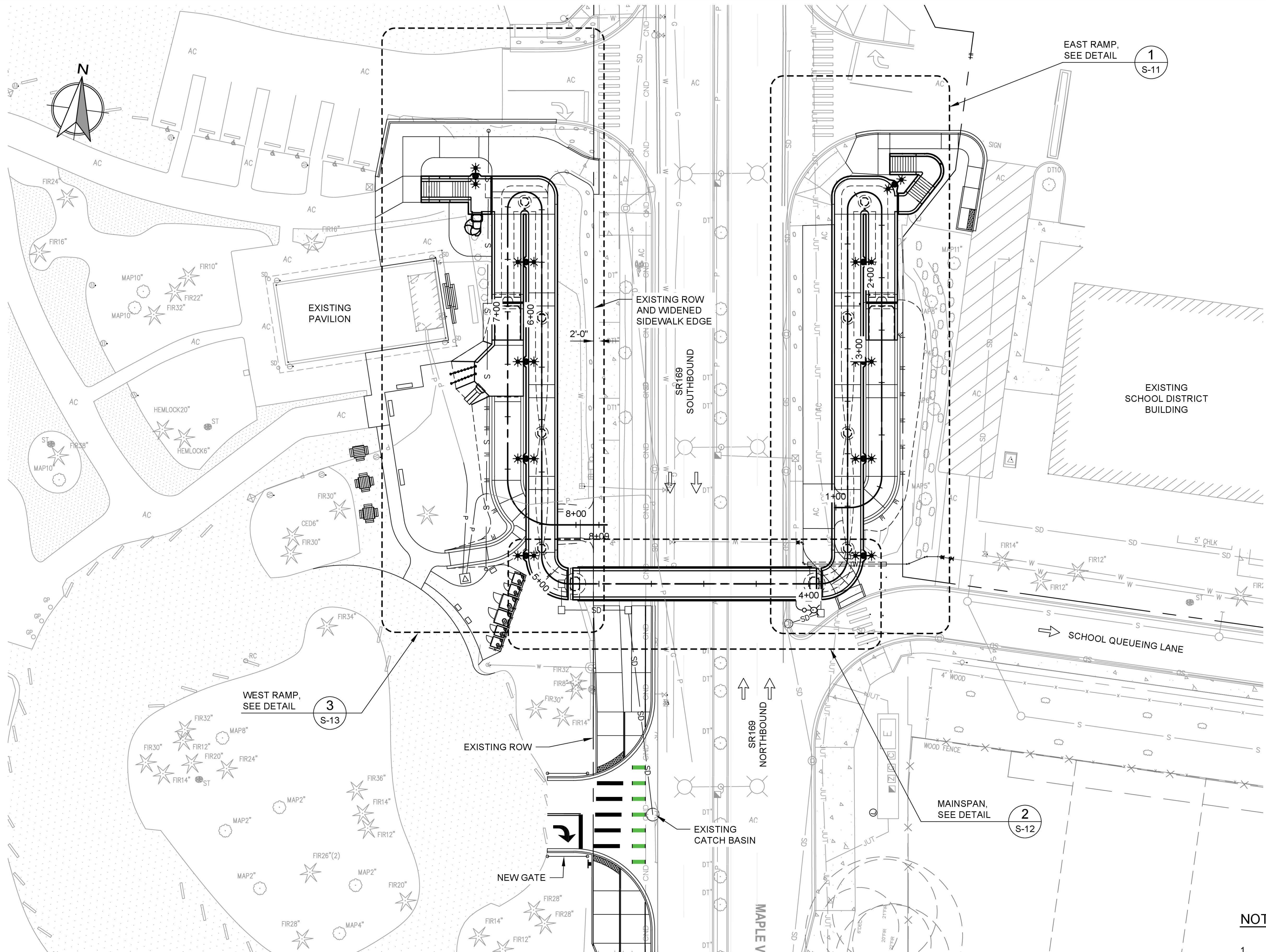
DESIGNED: CHELENE WONG DATE: 09/14/2026
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CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

TREE IMPACT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S09	
PROJECT No: 1262	
SHEET: S-09	REV: 0

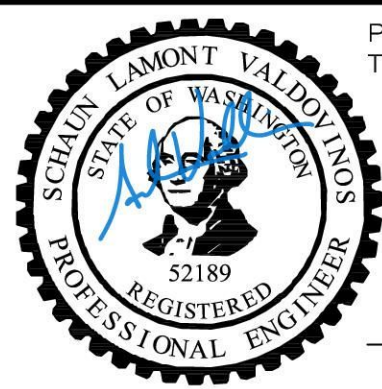


PLAN
SCALE: 1" = 20'

- NOTES:
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.

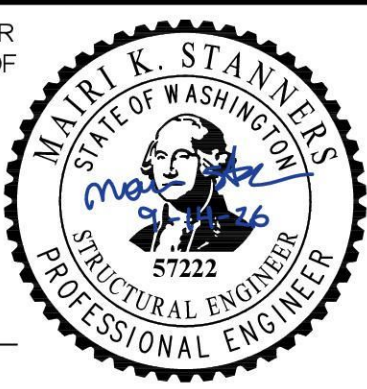
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REV	DATE	DESCRIPTION	BY
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STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026

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CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL ARRANGEMENT
SHEET 1

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S10	
PROJECT No: 1262	
SHEET: S-10	REV: 0

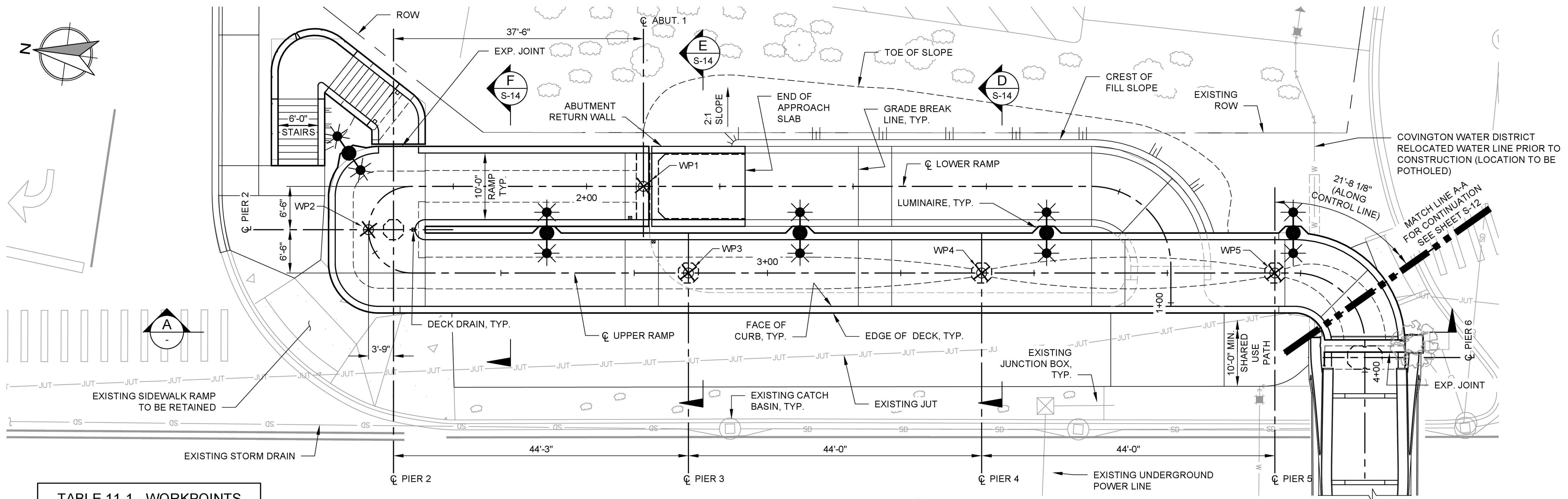
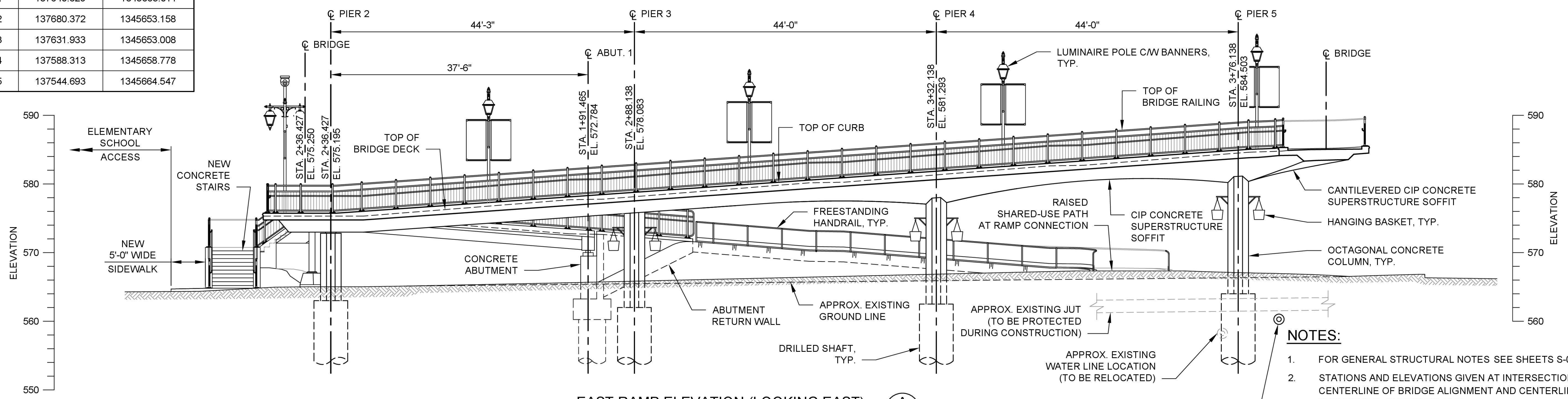


TABLE 11-1 - WORKPOINTS		
POINT	NORTHING	EASTING
WP1	137640.329	1345665.011
WP2	137680.372	1345653.158
WP3	137631.933	1345653.008
WP4	137588.313	1345658.778
WP5	137544.693	1345664.547

PLAN DETAIL - EAST RAMP

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

1
S-10



EAST RAMP ELEVATION (LOOKING EAST)

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

A

- NOTES:
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - STATIONS AND ELEVATIONS GIVEN AT INTERSECTION OF CENTERLINE OF BRIDGE ALIGNMENT AND CENTERLINE OF STRUCTURAL SUPPORTS, TYP.
 - REMOVE ABANDONED STORM DRAIN INFRASTRUCTURE.

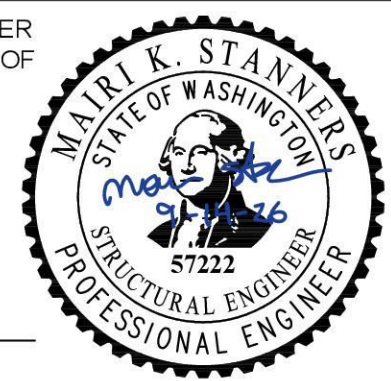
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REVISIONS			
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09-14-2026
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STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026

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CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

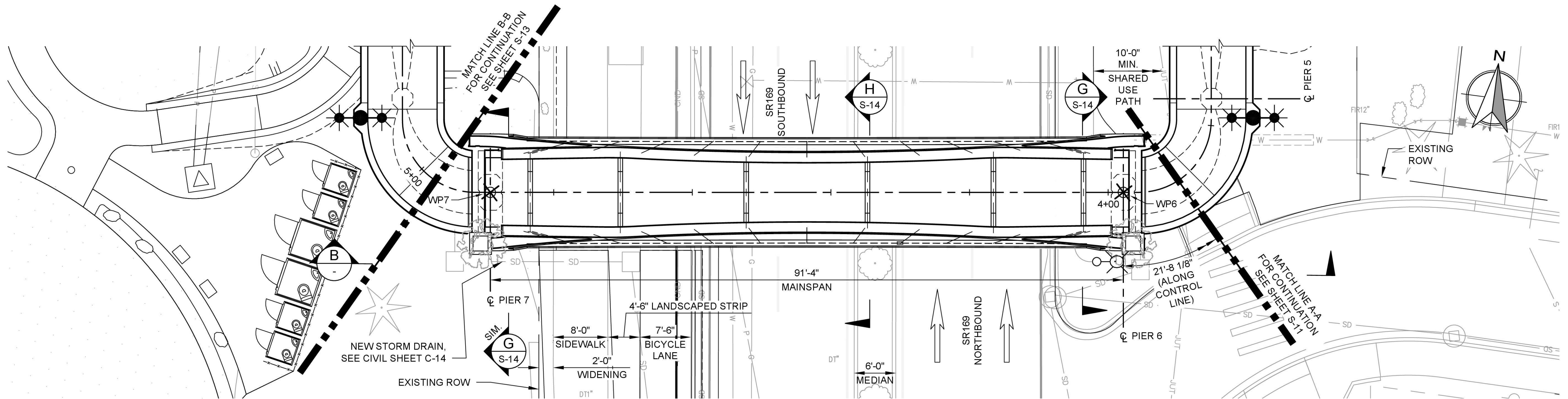


CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

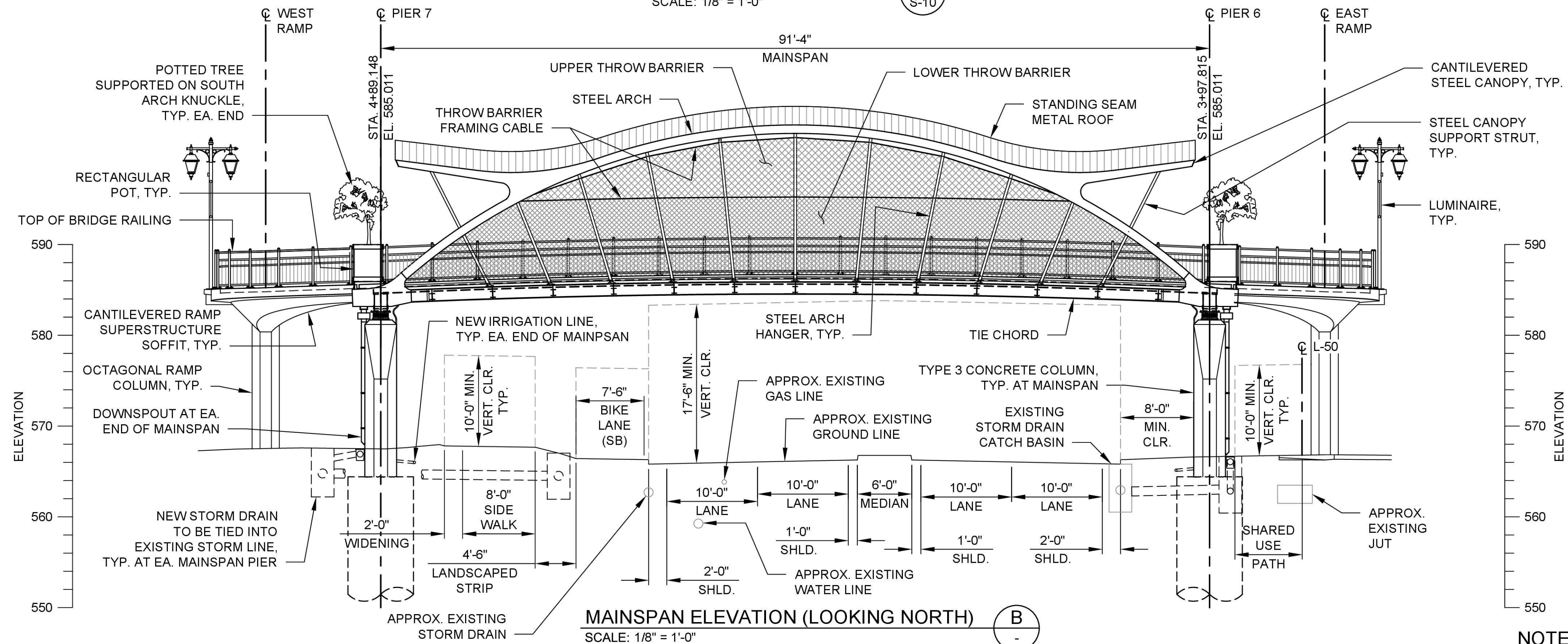
GENERAL ARRANGEMENT
SHEET 2 - EAST RAMP

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S11	
PROJECT No:	
1262	
SHEET:	REV:
S-11	0



NOTE: MAINSPAN ROOF STRUCTURE NOT SHOWN FOR CLARITY

PLAN DETAIL - MAINSPAN 2
SCALE: 1/8" = 1'-0"



MAINSPAN ELEVATION (LOOKING NORTH) B
SCALE: 1/8" = 1'-0"

TABLE 12-1 - WORKPOINTS		
POINT	NORTHING	EASTING
WP6	137529.646	1345653.743
WP7	137517.670	1345563.199

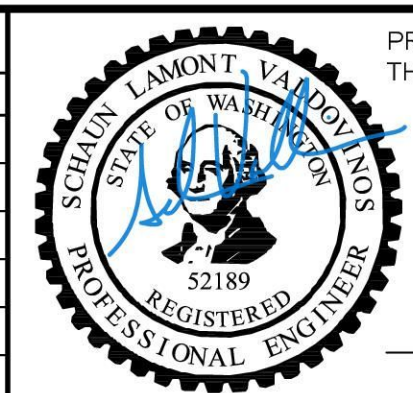
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- STATIONS AND ELEVATIONS GIVEN AT INTERSECTION OF CENTERLINE OF BRIDGE ALIGNMENT AND CENTERLINE OF STRUCTURAL SUPPORTS, TYP.

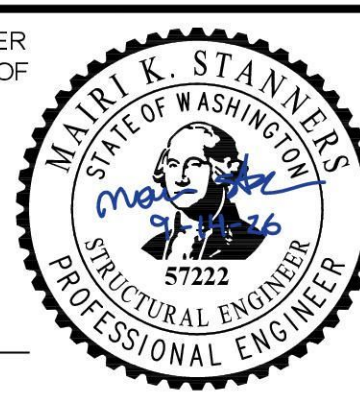
SHEET 12 OF 108

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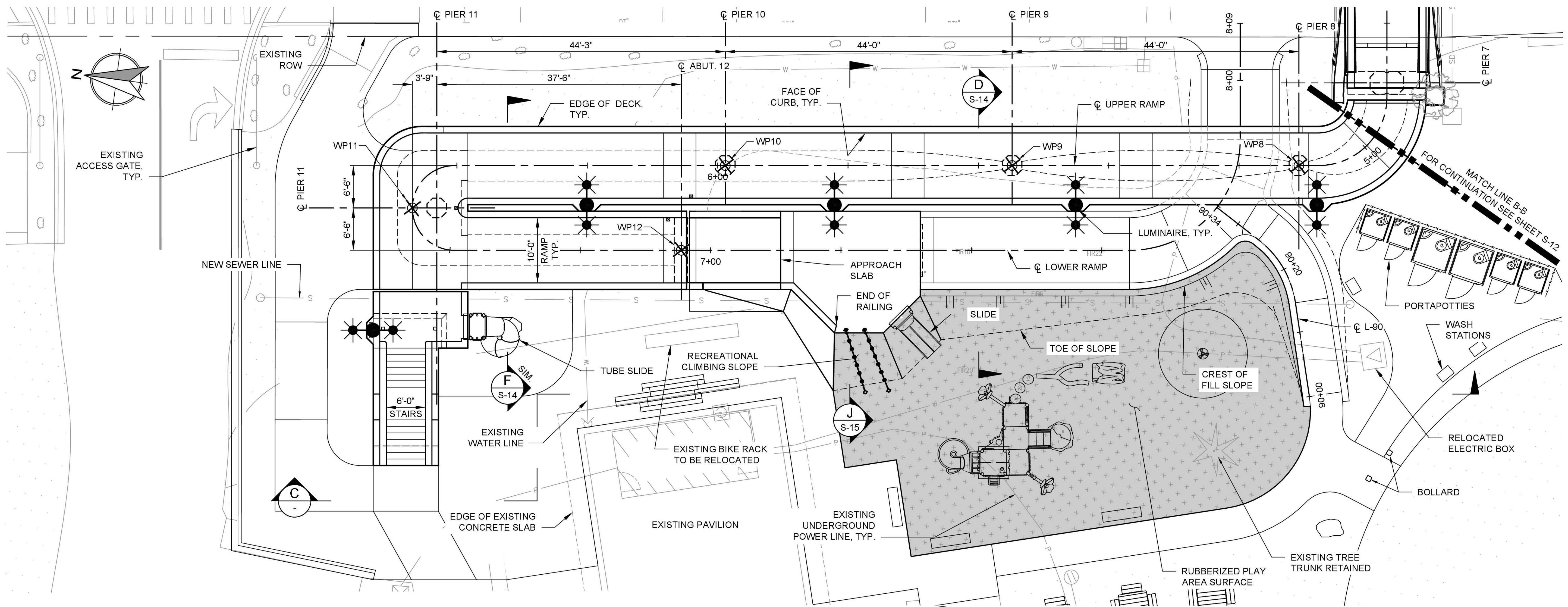
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
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CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL ARRANGEMENT
SHEET 3 - MAINSPAN

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S12	
PROJECT No: 1262	
SHEET: S-12	REV: 0



PLAN DETAIL - WEST RAMP

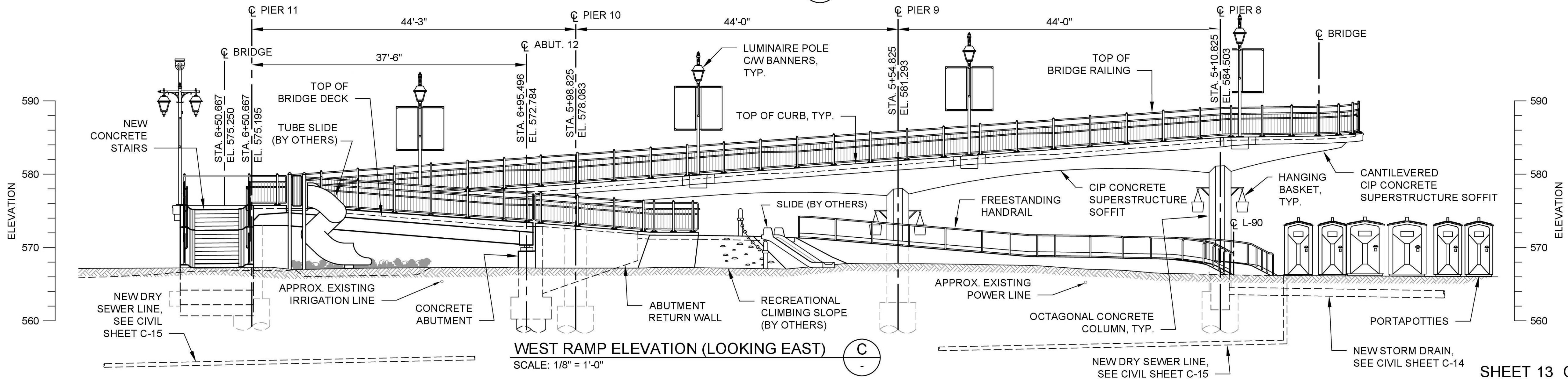
SCALE: 1/8" = 1'-0"

3
S-10

TABLE 13-1 - WORKPOINTS		
POINT	NORTHING	EASTING
WP8	137529.390	1345548.854
WP9	137573.011	1345543.085
WP10	137616.631	1345537.315
WP11	137663.364	1345524.577
WP12	137621.617	1345523.543

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- STATIONS AND ELEVATIONS GIVEN AT INTERSECTION OF CENTERLINE OF BRIDGE ALIGNMENT AND CENTERLINE OF STRUCTURAL SUPPORTS, TYP.



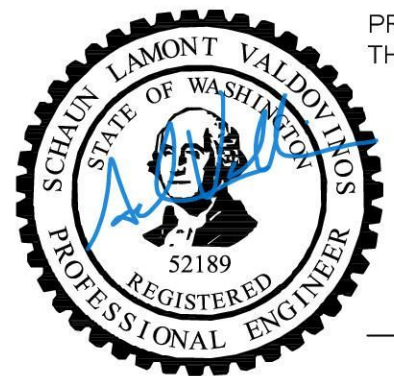
WEST RAMP ELEVATION (LOOKING EAST)

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

C
S-10

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CONSTRUCTION

REVISIONS			
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0	09/14/2026	ISSUED FOR BID	MS



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DATE



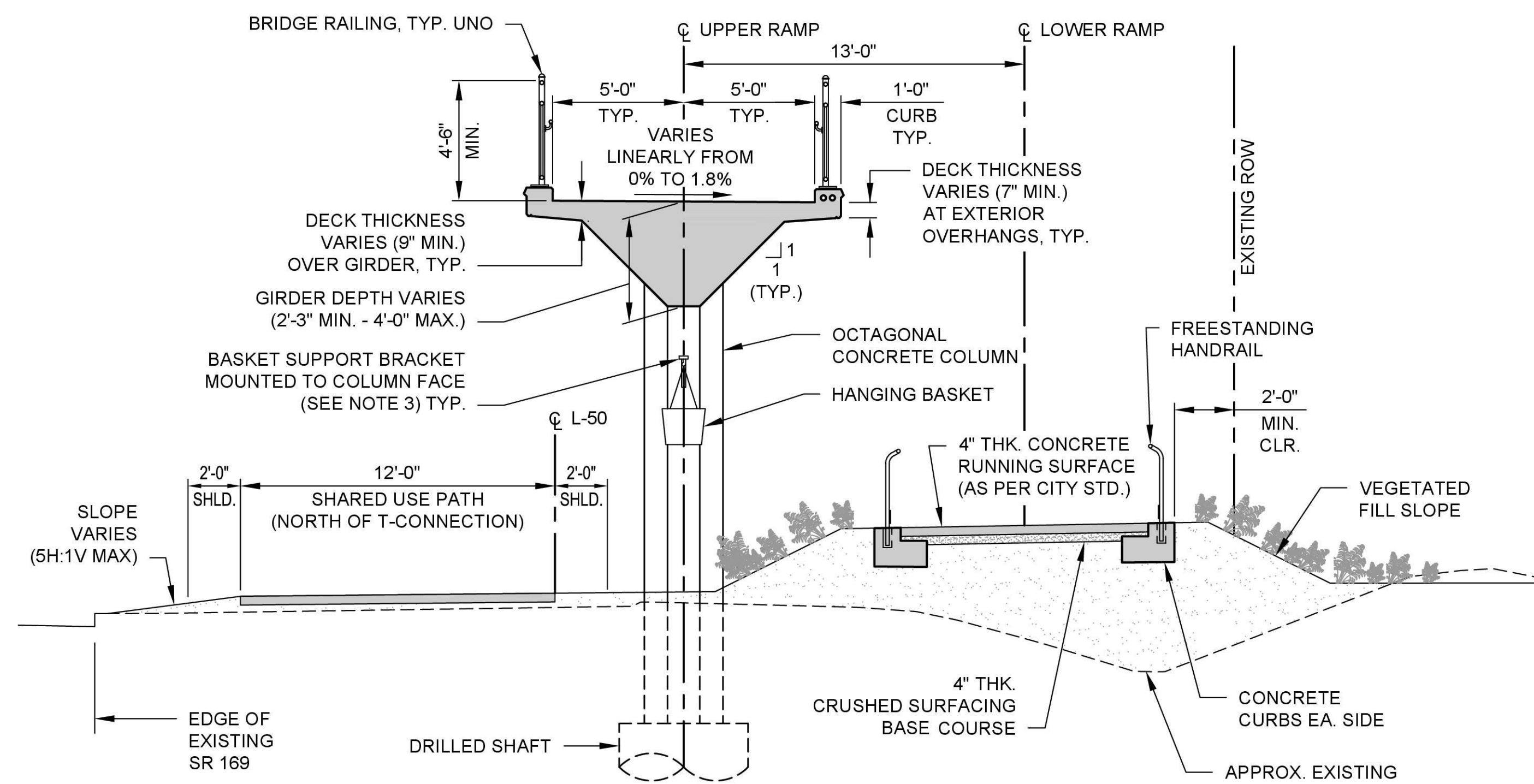
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL ARRANGEMENT
SHEET 4 - WEST RAMP

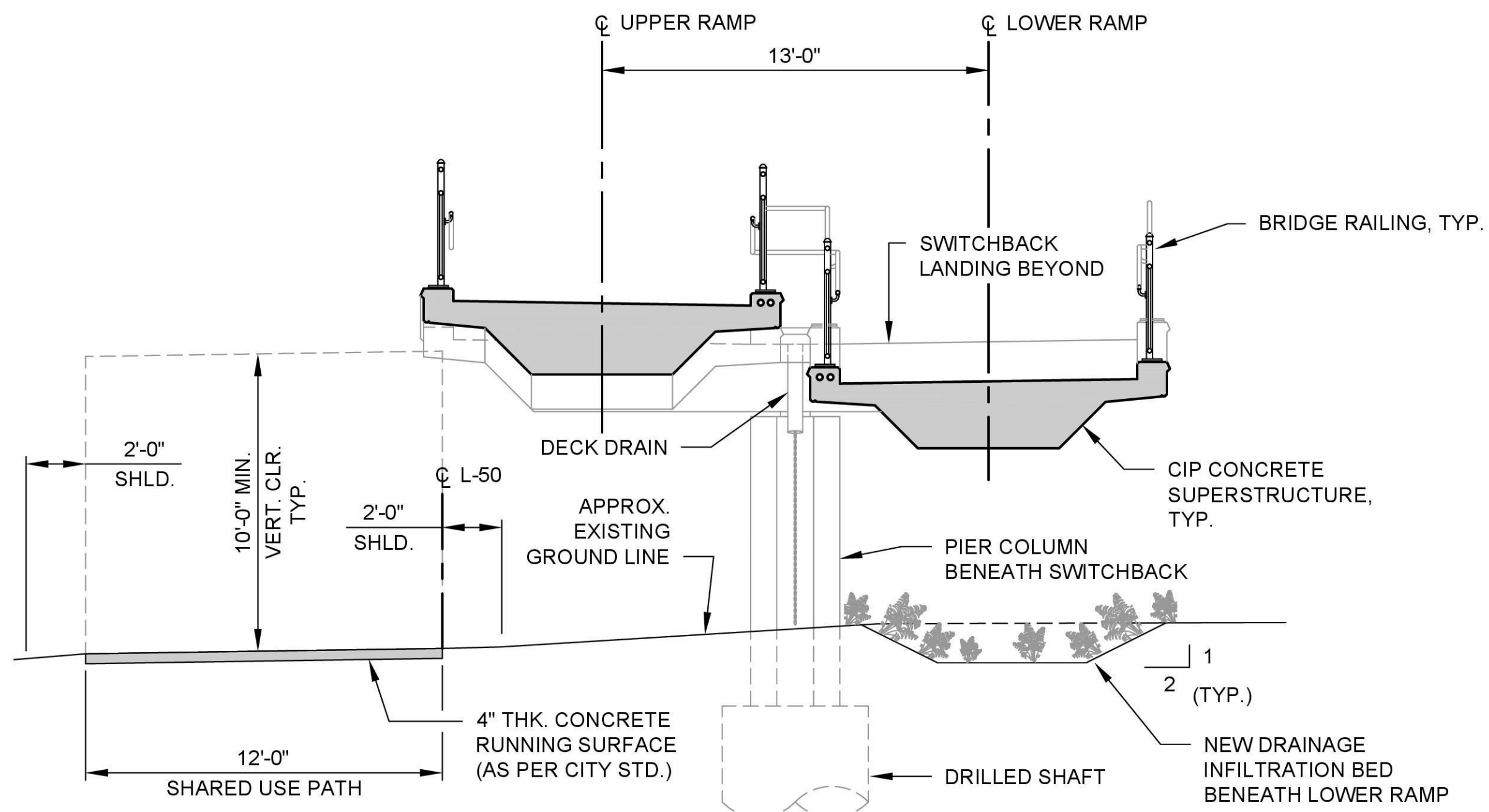
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S13	
PROJECT No: 1262	
SHEET: S-13	REV: 0



SECTION - TYP. RAMP WITH FILLED APPROACH EMBANKMENT

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

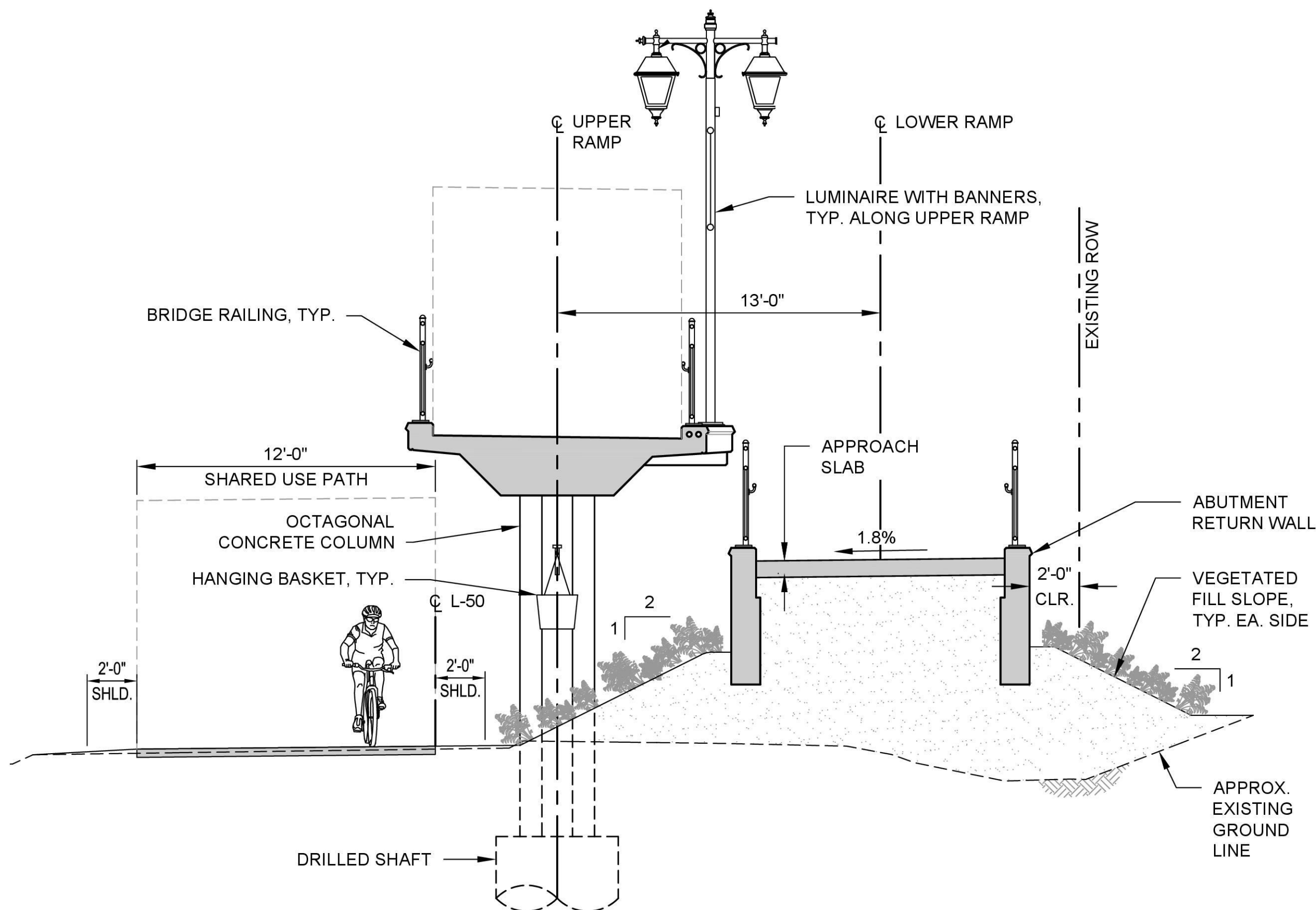
NOTE: EAST APPROACH EMBANKMENT SHOWN, WEST APPROACH SIM.



SECTION - TYP. RAMP TO SWITCHBACK INTERFACE

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

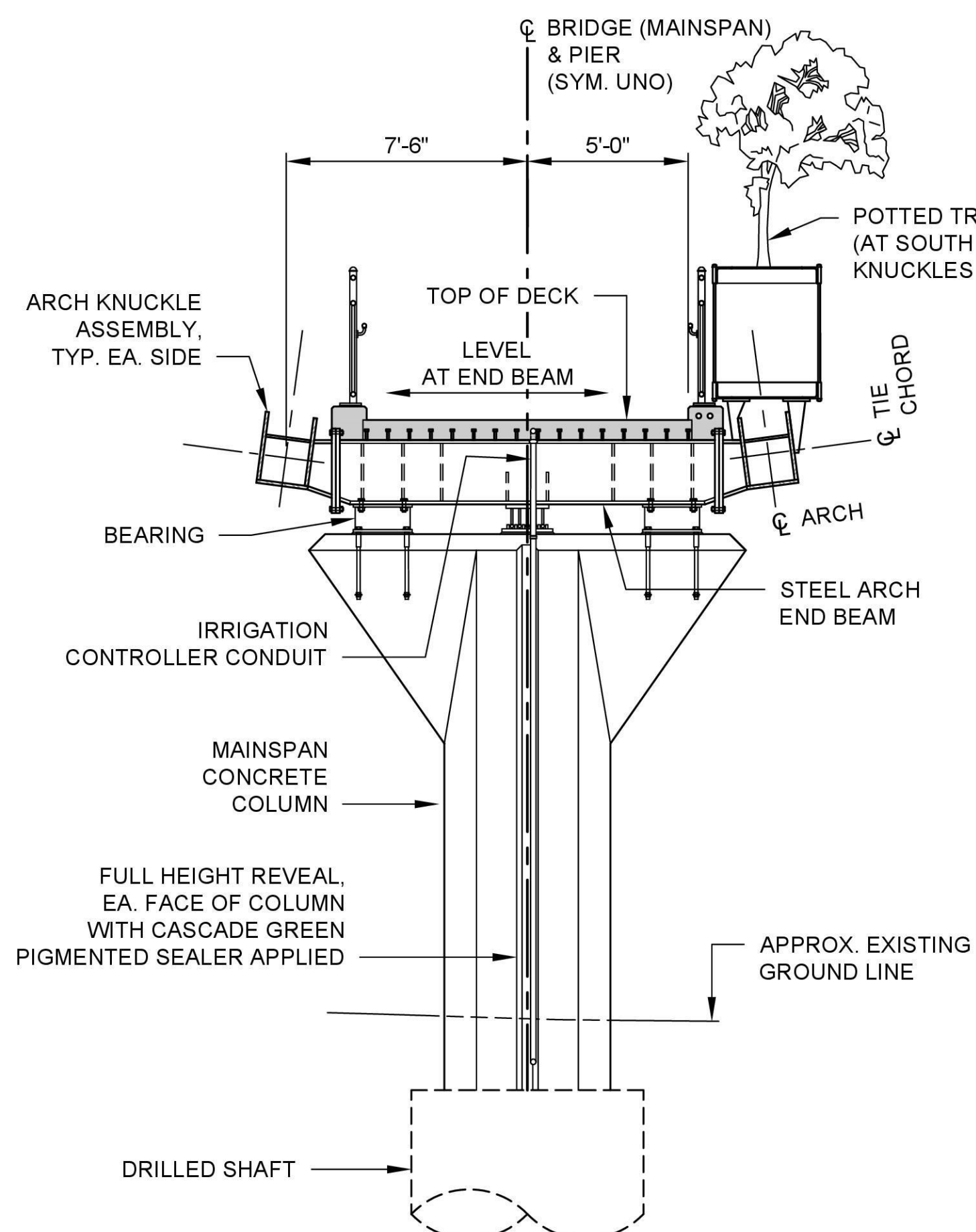
NOTE: EAST RAMP SHOWN, WEST RAMP SIM.



SECTION - TYPICAL RETAINED RAMP STRUCTURE

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

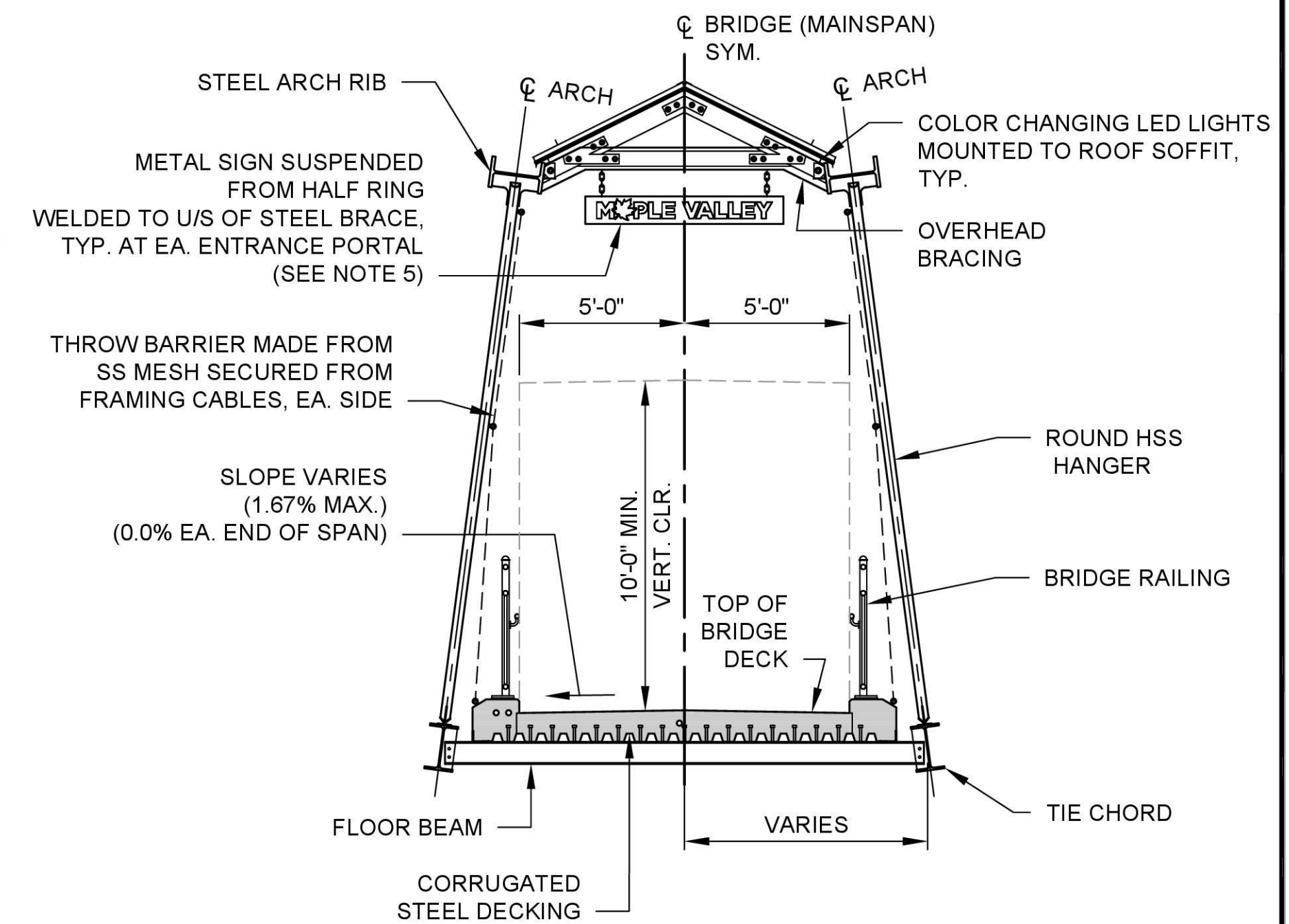
NOTE: EAST APPROACH EMBANKMENT SHOWN, WEST APPROACH SIM.



SECTION - TYP. MAINSPAN PIER

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

NOTES:
• SECTION IS TAKEN AT PIER 6 (PIER 7 SIM.)
• IRRIGATION LINE FOR SOUTH TREE PLANTERS NOT SHOWN FOR CLARITY



SECTION - TYP. MAINSPAN SUPERSTRUCTURE

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

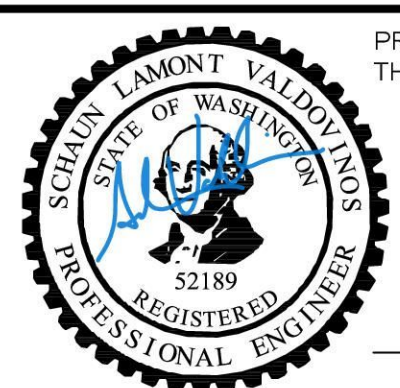
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- FOR CONCRETE RAMP SUPERSTRUCTURE DETAILS NOT SHOWN, SEE SECTION 'D' ON THIS SHEET.
- FOR HANGING BASKET SUPPORT BRACKET ANCHORAGE DETAILS, SEE NOTES ON SHEET S-25.
- CLEAR AND GRUB EXISTING GROUND TO REMOVE ORGANIC MATERIAL AND COMPACT SOIL TO PROVIDE SOUND BASE.
- SIGN TO BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR.

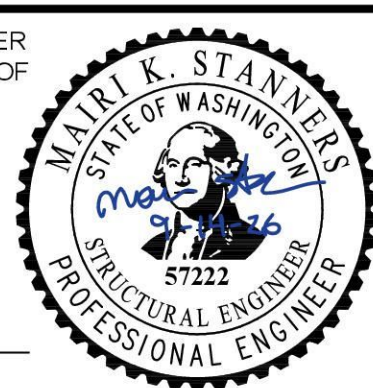
SHEET 14 OF 108

NOT ISSUED FOR CONSTRUCTION

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0	09/14/2026	ISSUED FOR BID	MS

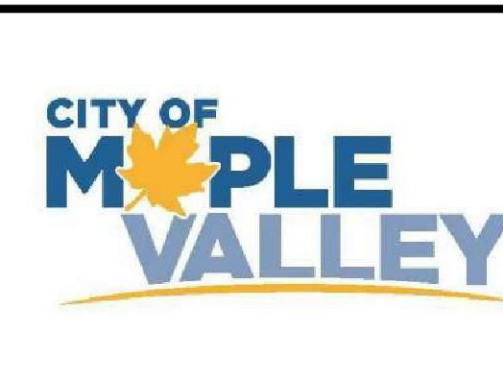


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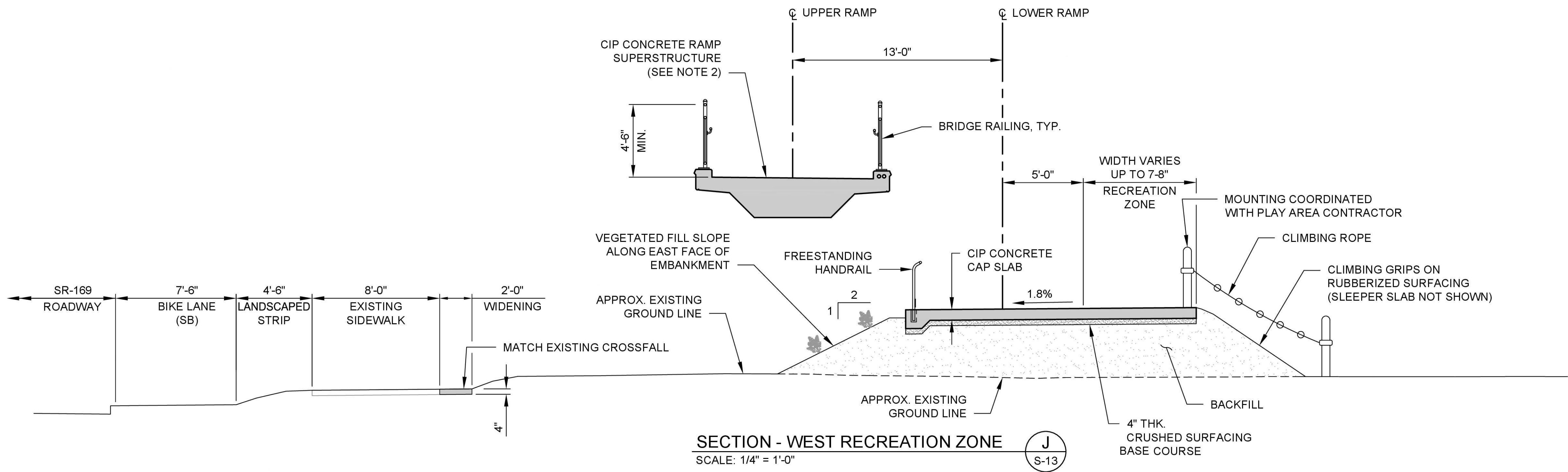
DESIGNED: CHELENE WONG
DATE: 09/14/2026
DRAWN: SCOTT VARNEY
DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026

STRUCTURAL DESIGN



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
GENERAL ARRANGEMENT
SHEET 5

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S14_S15	
PROJECT No: 1262	
SHEET: S-14	REV: 0



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEET S-03 & S-04.
- FOR CONCRETE RAMP SUPERSTRUCTURE DETAILS NOT SHOWN, SEE SECTION 'D' ON SHEET S-14.
- CLEAR AND GRUB EXISTING GROUND TO REMOVE ORGANIC MATERIAL AND COMPACT SOIL TO PROVIDE SOUND BASE.

SHEET 15 OF 108

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THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: _____
DRAWN: SCOTT VARNEY DATE: _____
CHECKED: SCHAUN VALDOVINOS DATE: _____



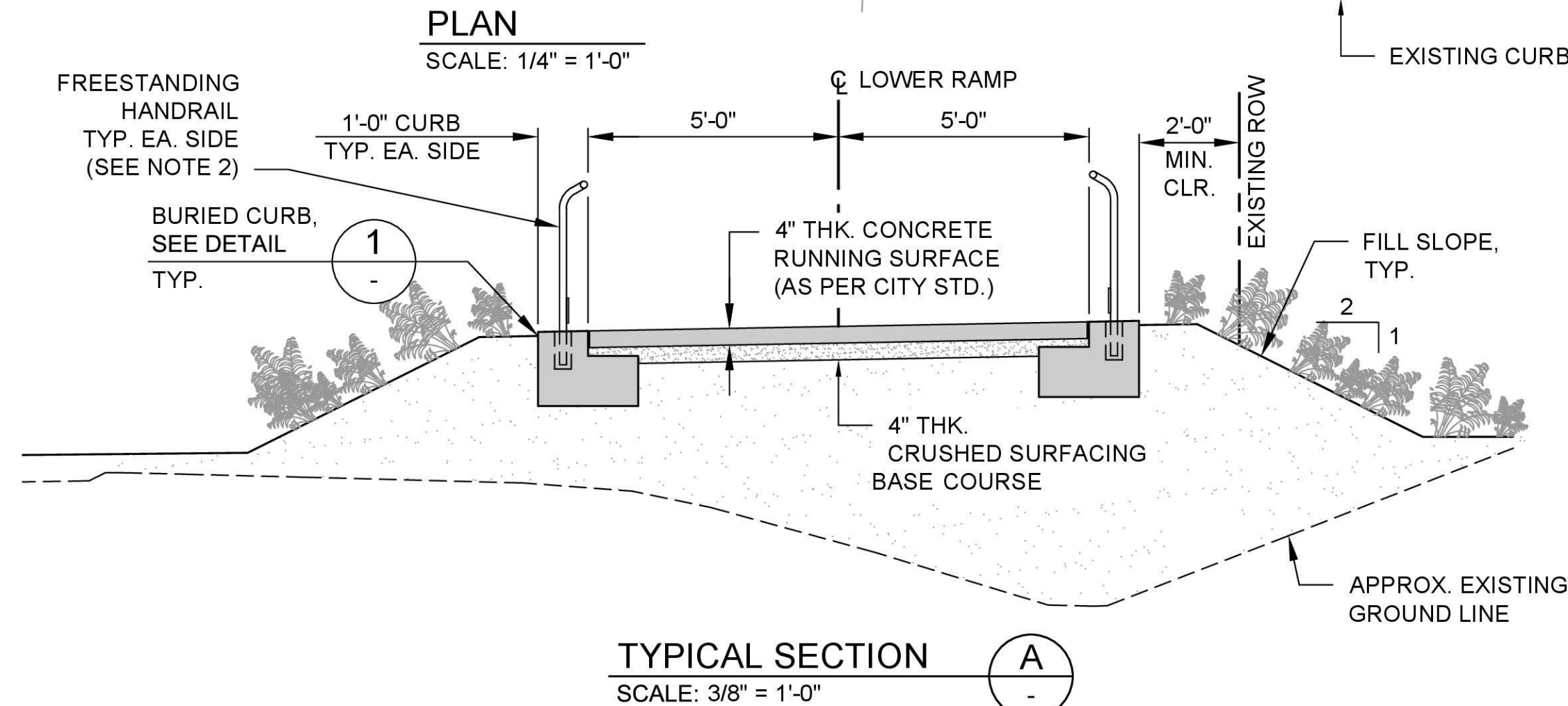
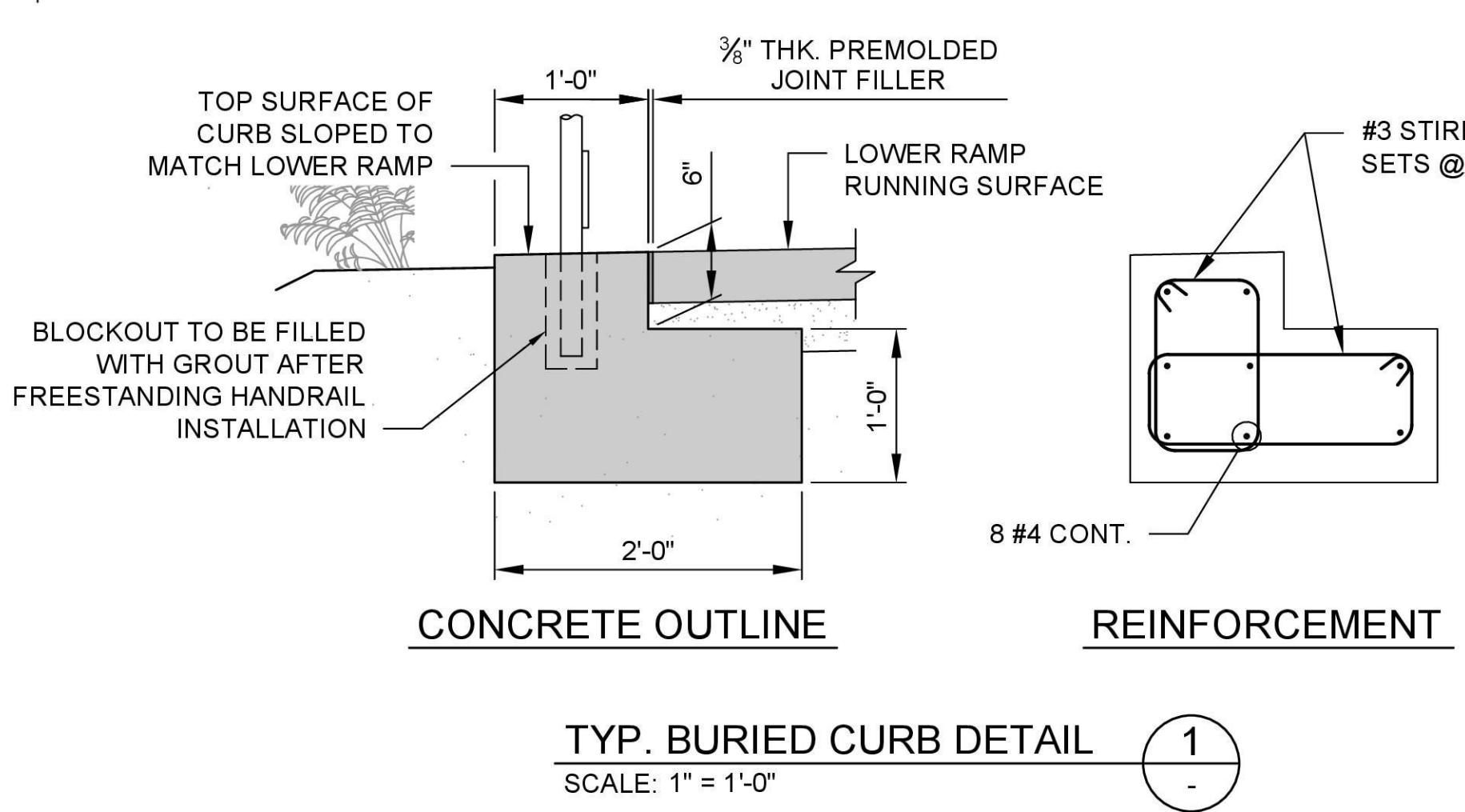
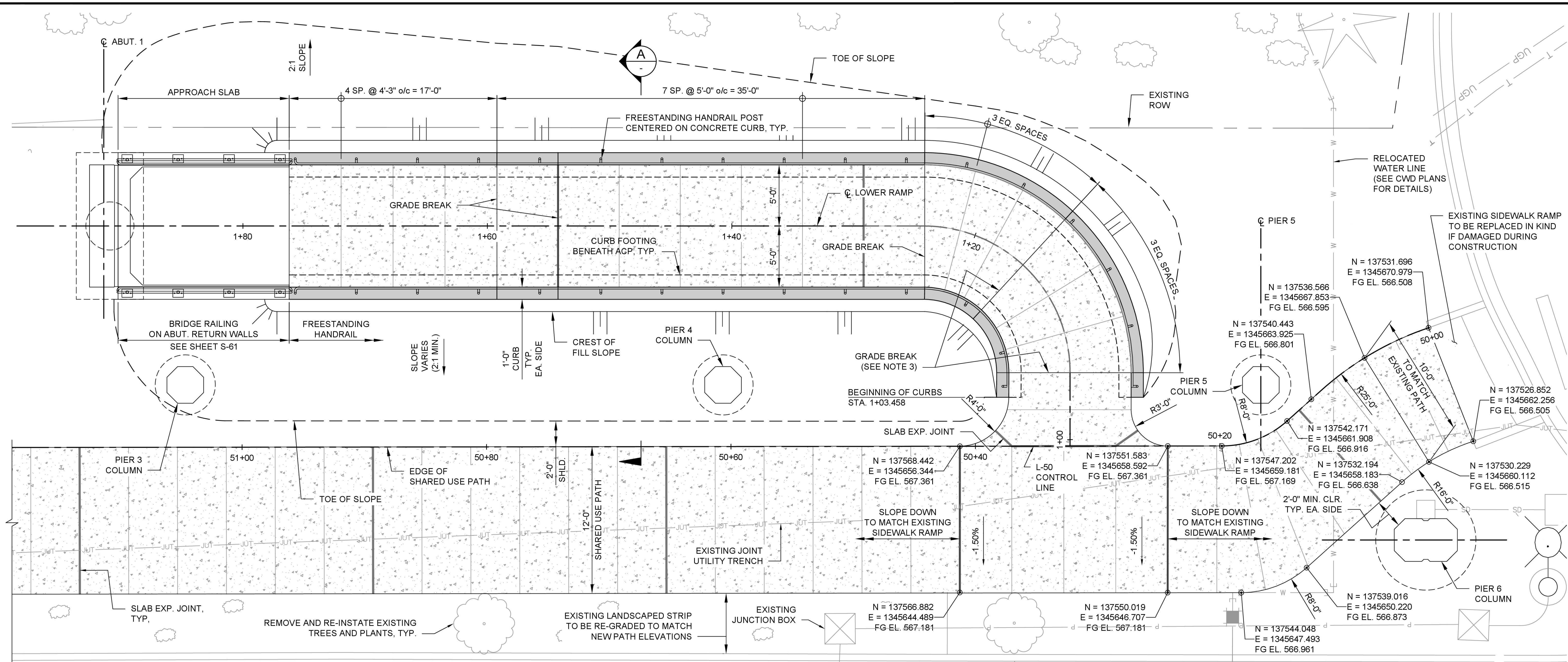
CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

GENERAL ARRANGEMENT

SHEET 6

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S14_S15	
PROJECT No: 1262	
SHEET: S-15	REV: 0



LEGEND:

- 4" THK. CONCRETE SIDEWALK SLAB (AS PER WSDOT STANDARD PLAN F-30.10)
- STRUCTURAL CONCRETE (SEE SECTIONS)
- SLAB CONTROL JOINT (SEE NOTE 2)
- SLAB EXPANSION JOINT (AS PER WSDOT STANDARD PLAN F-30.10)

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- FREESTANDING HANDRAIL SHALL BE 3'-0" TALL AND COMPRISED OF 1 1/2" DIA. SCH. 40 BLACK POWDERCOATED STEEL PIPE, WITH POST SPACING OF 5'-0" o/c MAX. POSTS SHALL BE CAST INTO BLOCKOUTS CAST INTO CONCRETE CURBS, WITH A MINIMUM EMBEDMENT OF 8" (SEE DETAIL ON SHEET S-66).
- CONCRETE CONTROL JOINTS SHALL BE CREATED USING SAWCUTS 1/8" WIDE X 1/4" DEEP FILLED WITH SEALANT. SAWCUTS SHALL BE AT THE GRADE BREAK LOCATIONS, AT MIDPOINTS BETWEEN GRADE BREAKS AND AS SHOWN ON THIS PLAN.

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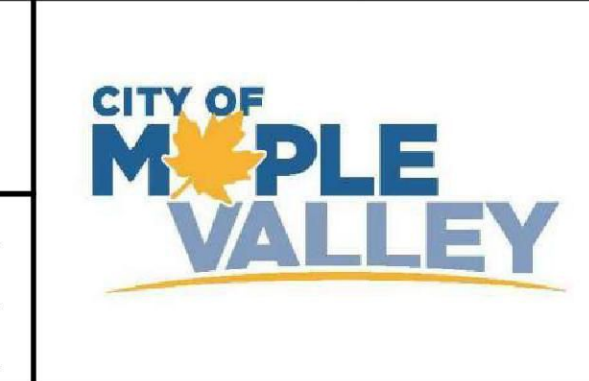


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DATE



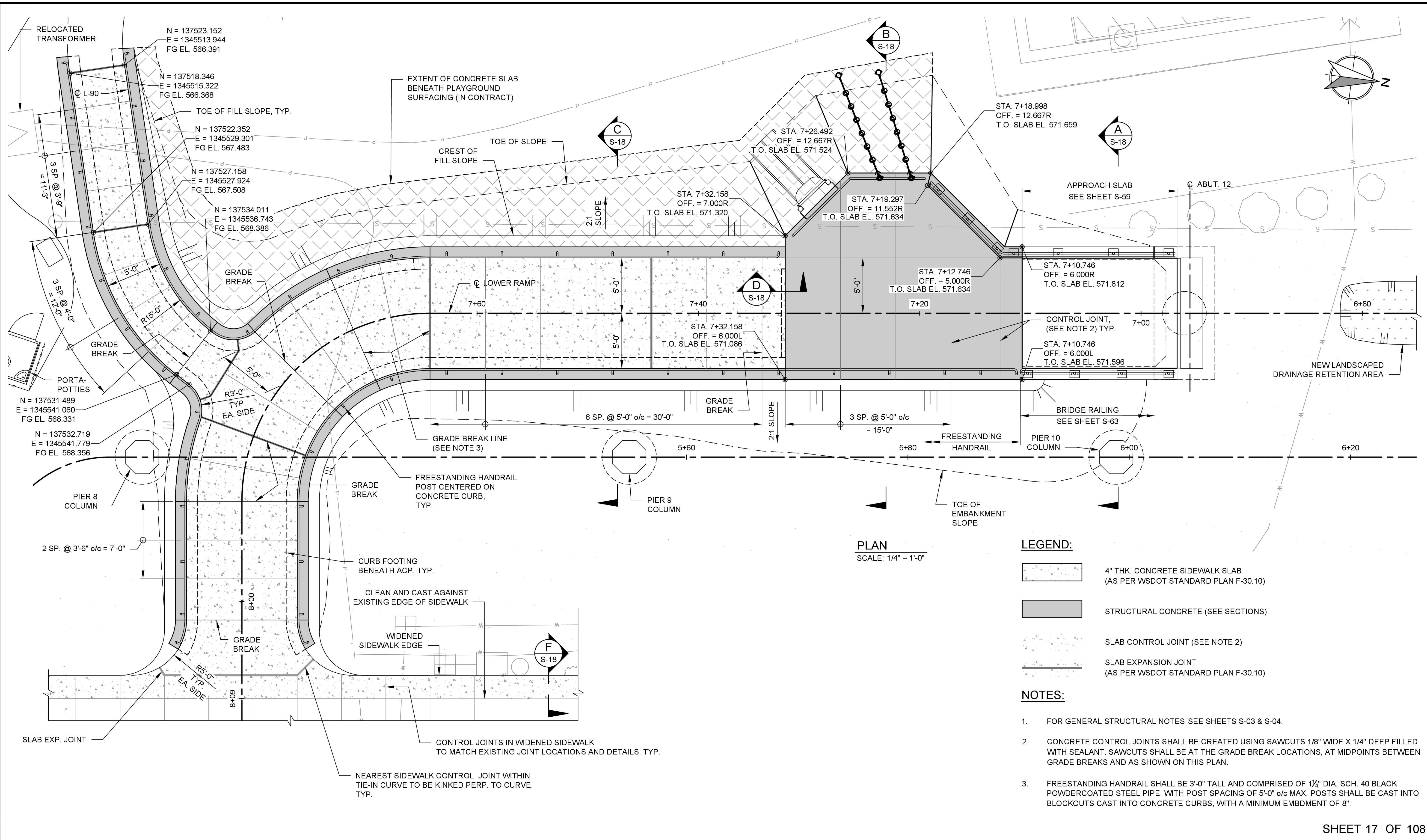
STRUCTURAL DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



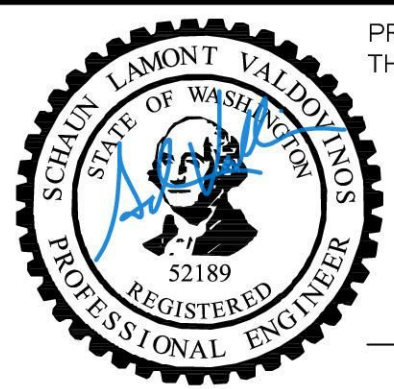
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
EAST RAMP EMBANKMENT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S16	
PROJECT No: 1262	
SHEET: S-16	REV: 0



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DATE



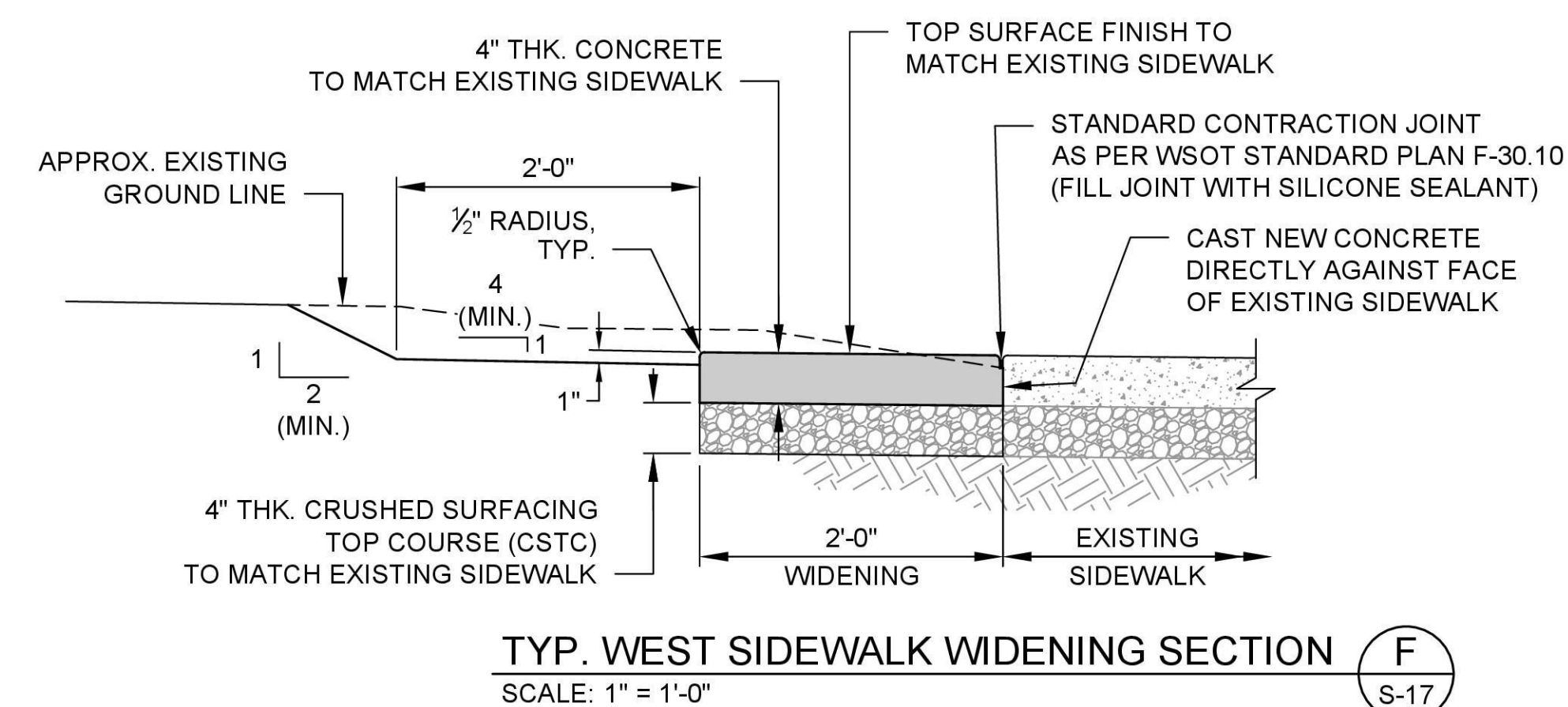
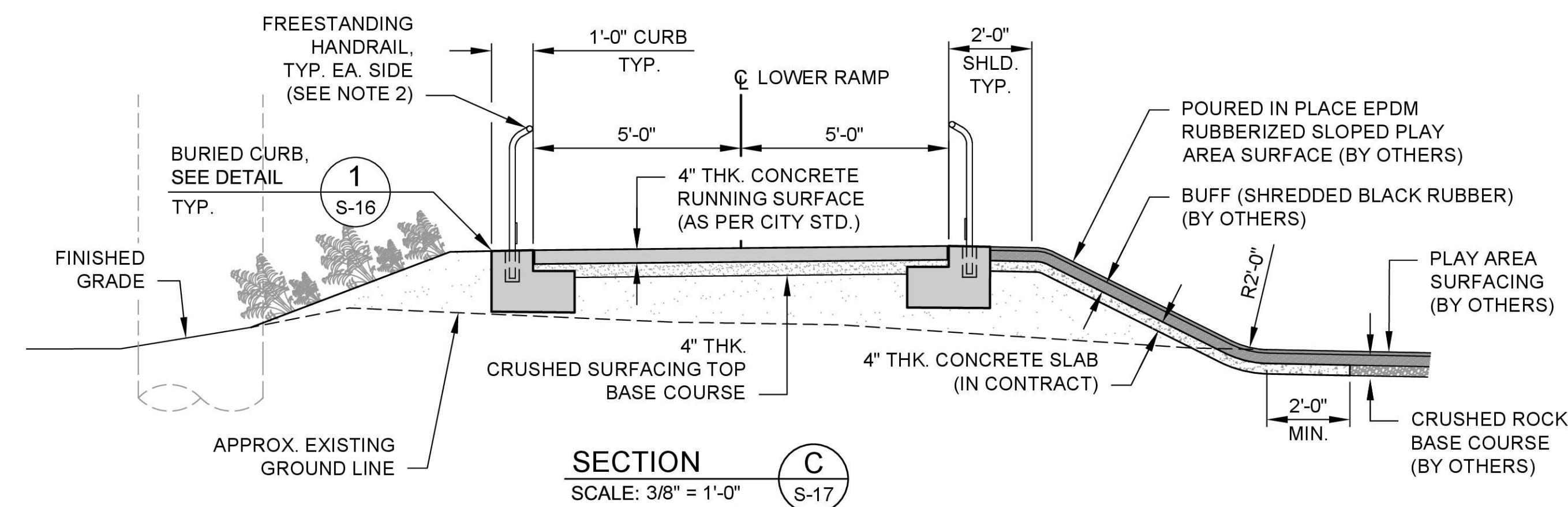
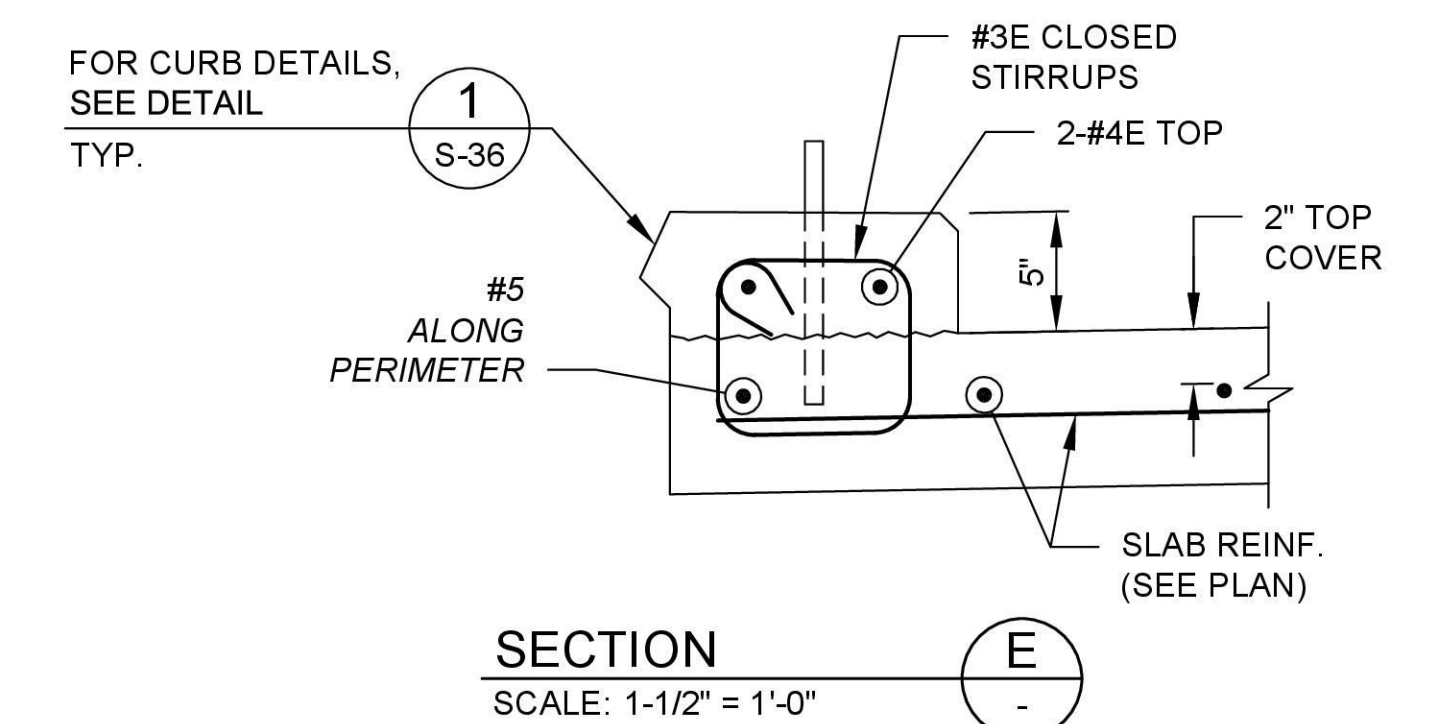
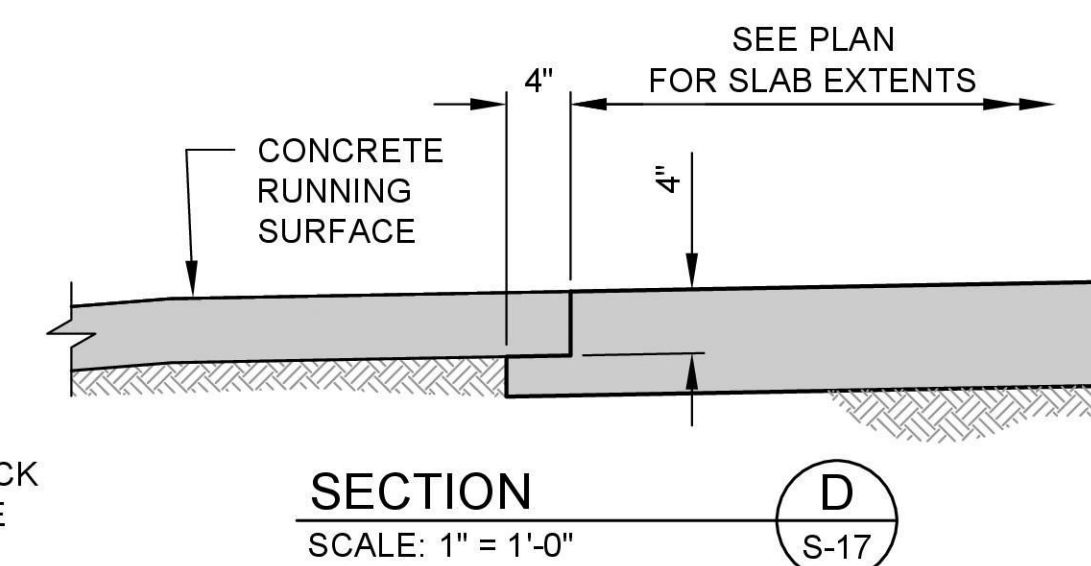
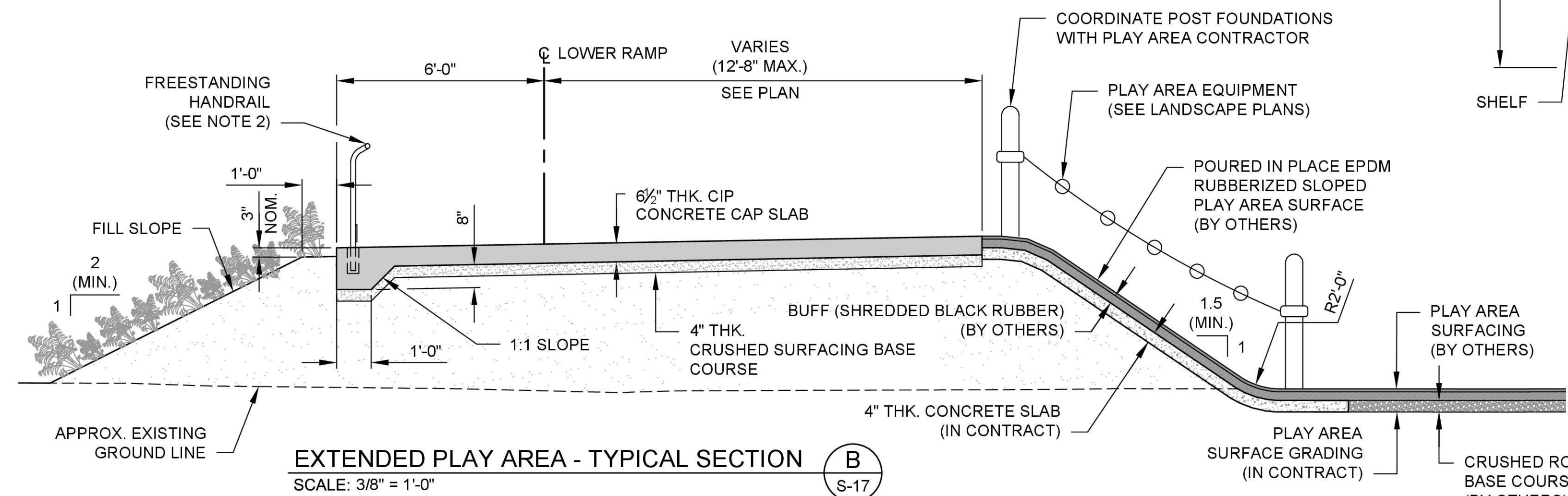
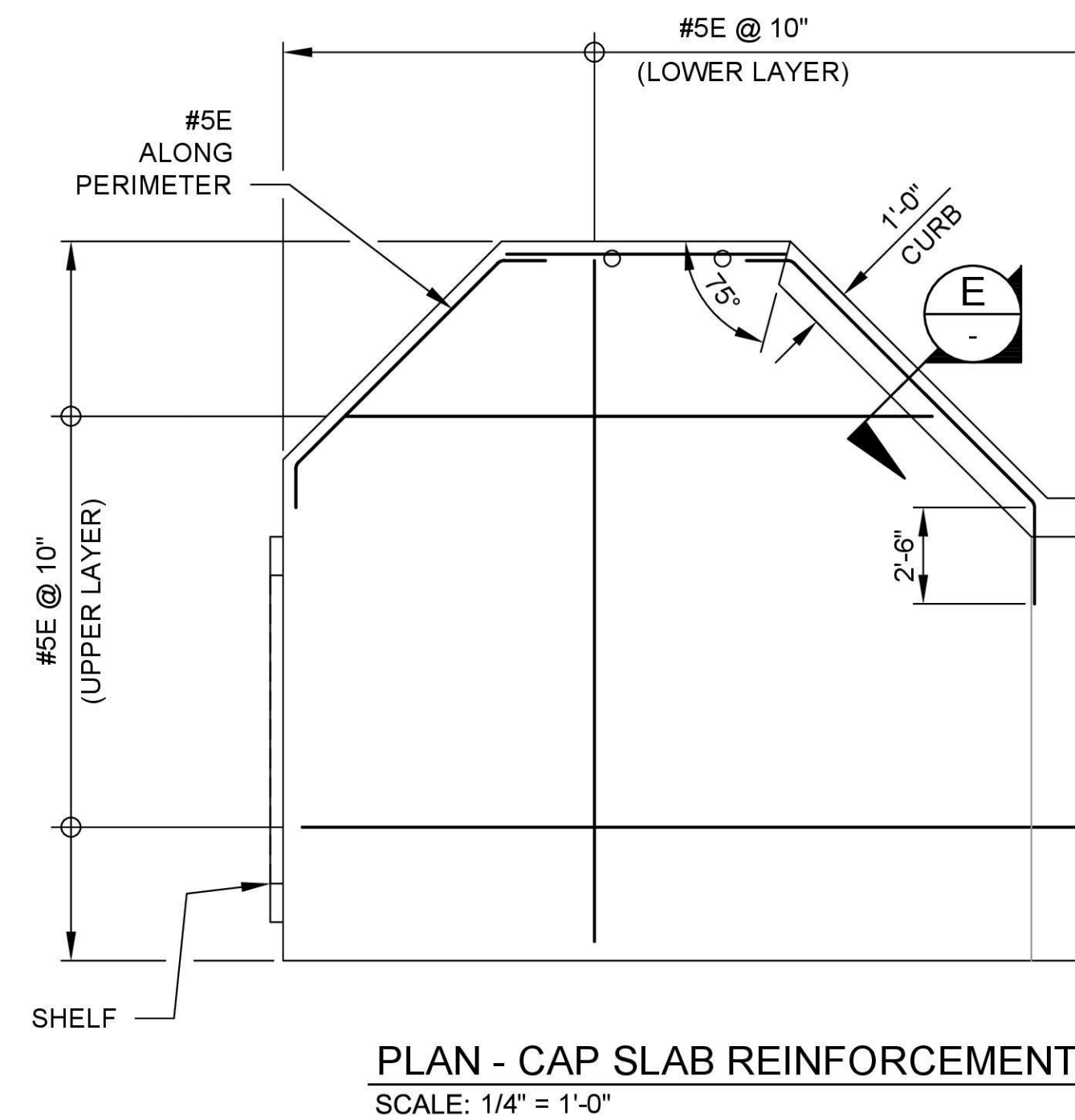
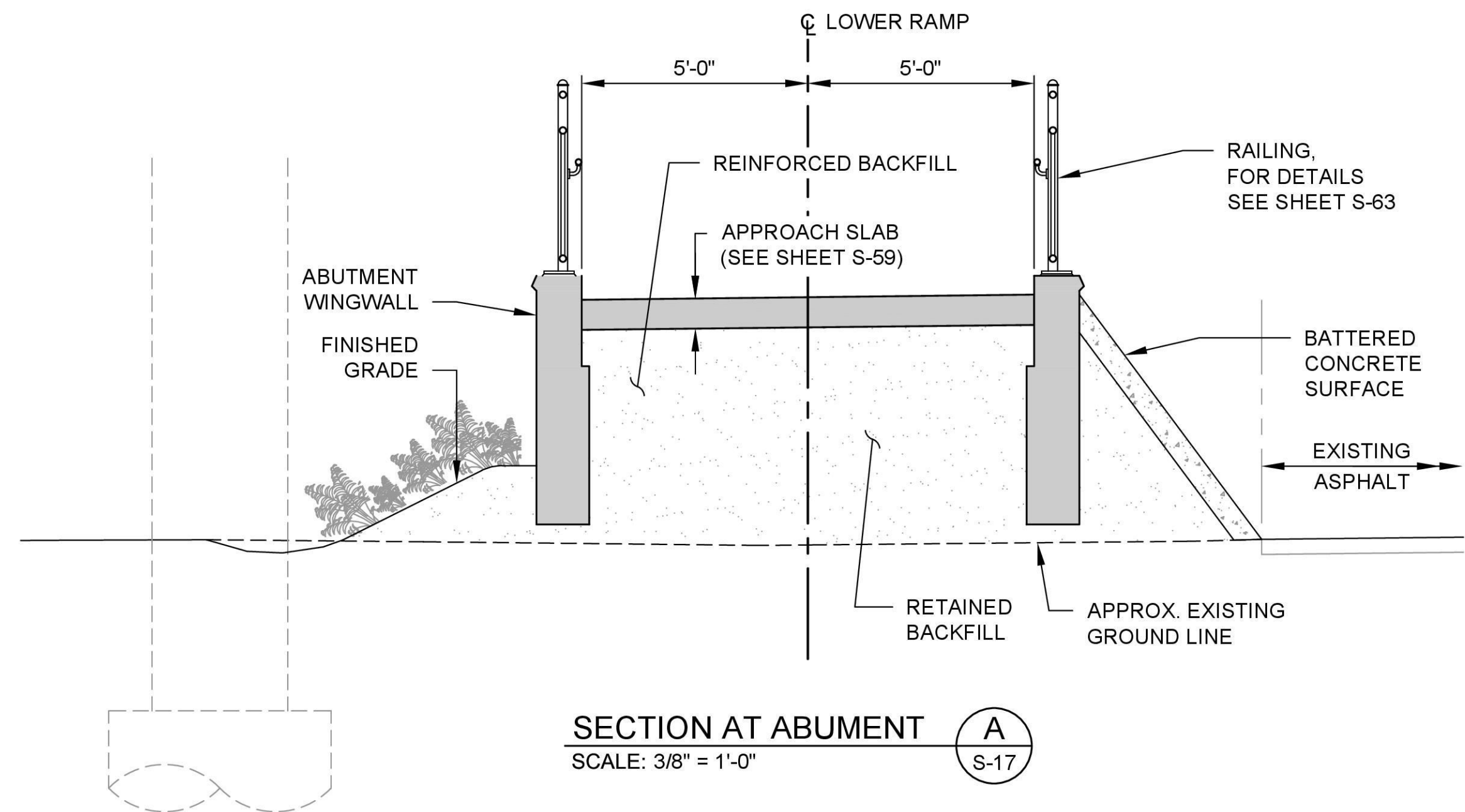
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
WEST RAMP EMBANKMENT
SHEET 1

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S17_S16	
PROJECT No: 1262	
SHEET: S-17	REV: 0



- ## NOTES:
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 2. FREESTANDING HANDRAIL SHALL BE 3'-0" TALL AND COMPRISED OF 1½" DIA. SCH. 40 BLACK POWDERCOATED STEEL PIPE, WITH POST SPACING OF 5'-0" o/c MAX. POSTS SHALL BE CAST INTO BLOCKOUTS CAST INTO CONCRETE CURBS, WITH A MINIMUM EMBDMENT OF 8".
 3. RUBBERIZED SURFACE ON SLOPE SHALL BE APPLIED BY OTHERS PER THE SPECIAL PROVISIONS.

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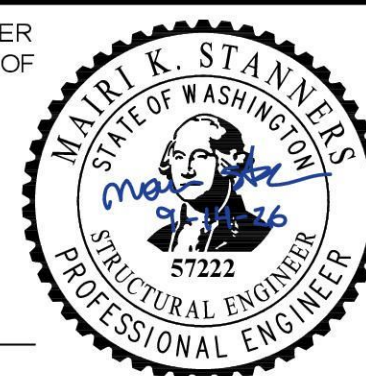
REVISIONS			
REV	DATE	DESCRIPTION	BY
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09-14-2026

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STRUCTURAL DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
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CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

WEST RAMP EMBANKMENT

SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S17_S18	
PROJECT No: 1262	
SHEET: S-18	REV: 0

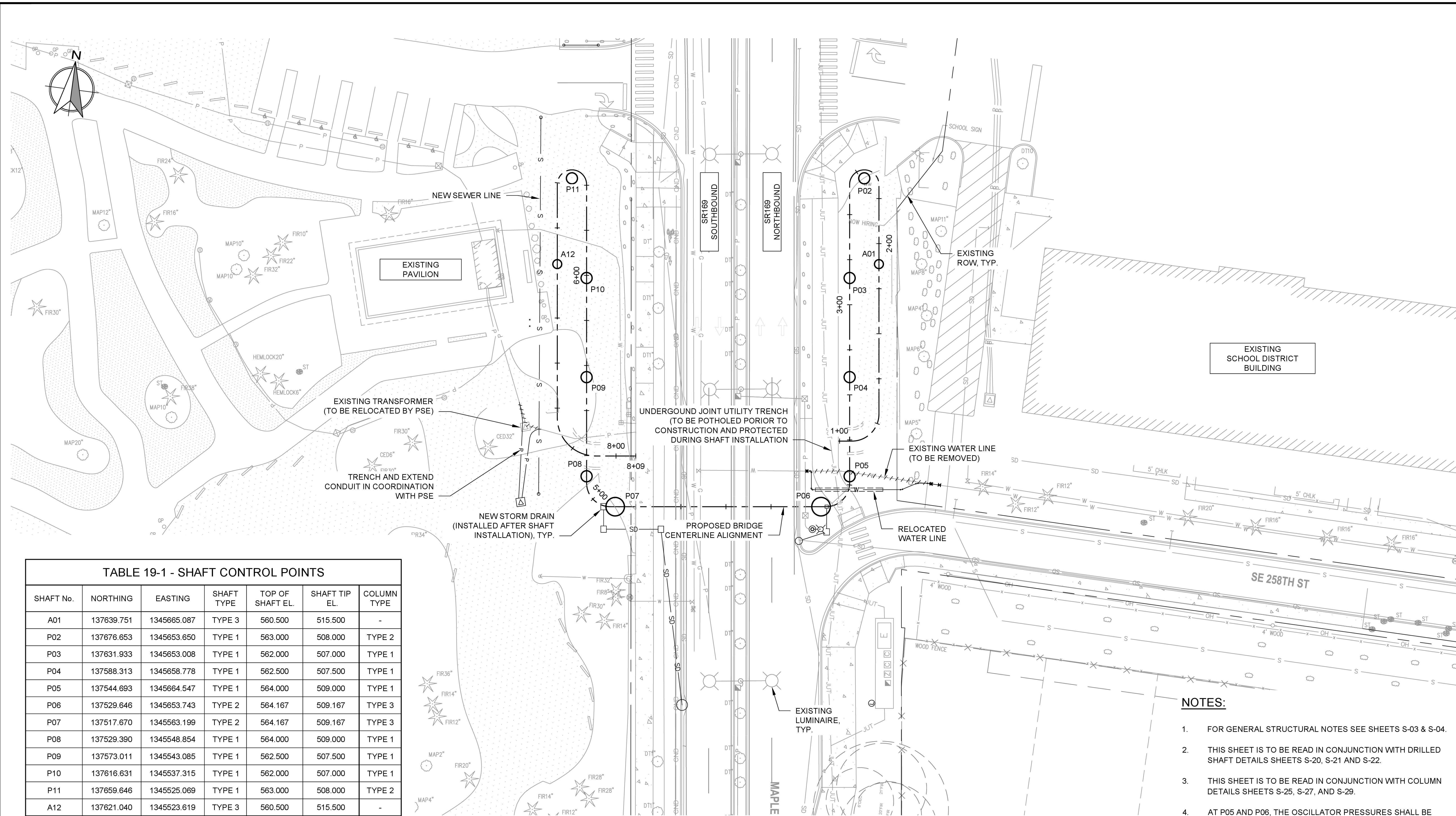


TABLE 19-1 - SHAFT CONTROL POINTS						
SHAFT No.	NORTHING	EASTING	SHAFT TYPE	TOP OF SHAFT EL.	SHAFT TIP EL.	COLUMN TYPE
A01	137639.751	1345665.087	TYPE 3	560.500	515.500	-
P02	137676.653	1345653.650	TYPE 1	563.000	508.000	TYPE 2
P03	137631.933	1345653.008	TYPE 1	562.000	507.000	TYPE 1
P04	137588.313	1345658.778	TYPE 1	562.500	507.500	TYPE 1
P05	137544.693	1345664.547	TYPE 1	564.000	509.000	TYPE 1
P06	137529.646	1345653.743	TYPE 2	564.167	509.167	TYPE 3
P07	137517.670	1345563.199	TYPE 2	564.167	509.167	TYPE 3
P08	137529.390	1345548.854	TYPE 1	564.000	509.000	TYPE 1
P09	137573.011	1345543.085	TYPE 1	562.500	507.500	TYPE 1
P10	137616.631	1345537.315	TYPE 1	562.000	507.000	TYPE 1
P11	137659.646	1345525.069	TYPE 1	563.000	508.000	TYPE 2
A12	137621.040	1345523.619	TYPE 3	560.500	515.500	-

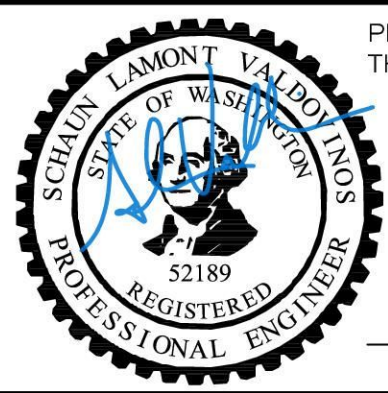
PLAN
SCALE: 1" = 20'-0"

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- THIS SHEET IS TO BE READ IN CONJUNCTION WITH DRILLED SHAFT DETAILS SHEETS S-20, S-21 AND S-22.
- THIS SHEET IS TO BE READ IN CONJUNCTION WITH COLUMN DETAILS SHEETS S-25, S-27, AND S-29.
- AT P05 AND P06, THE OSCILLATOR PRESSURES SHALL BE LIMITED NEAR EXISTING JUT TO ENSURE NO IMPACT.

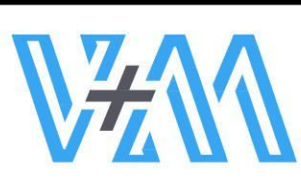
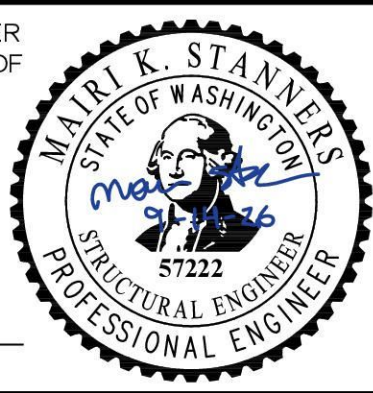
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THE DIRECTION OF

09-14-2026
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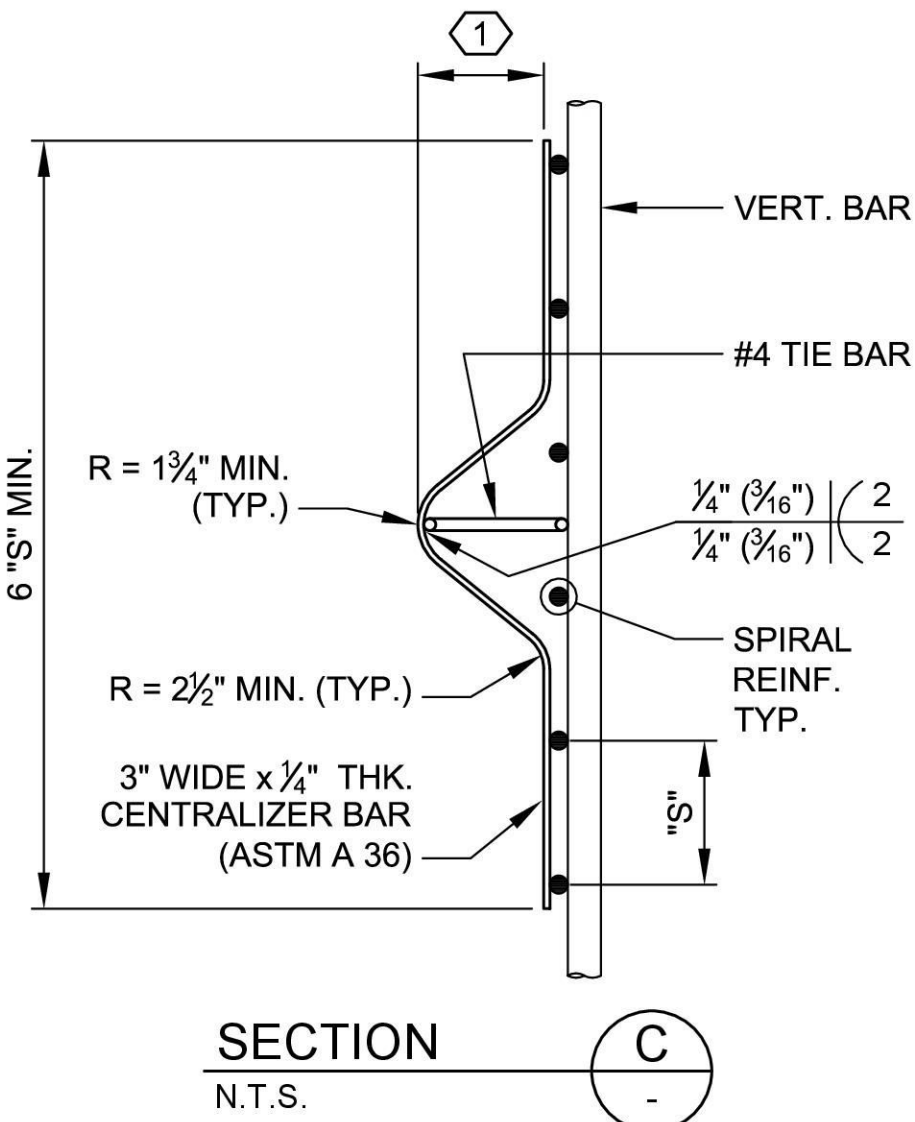
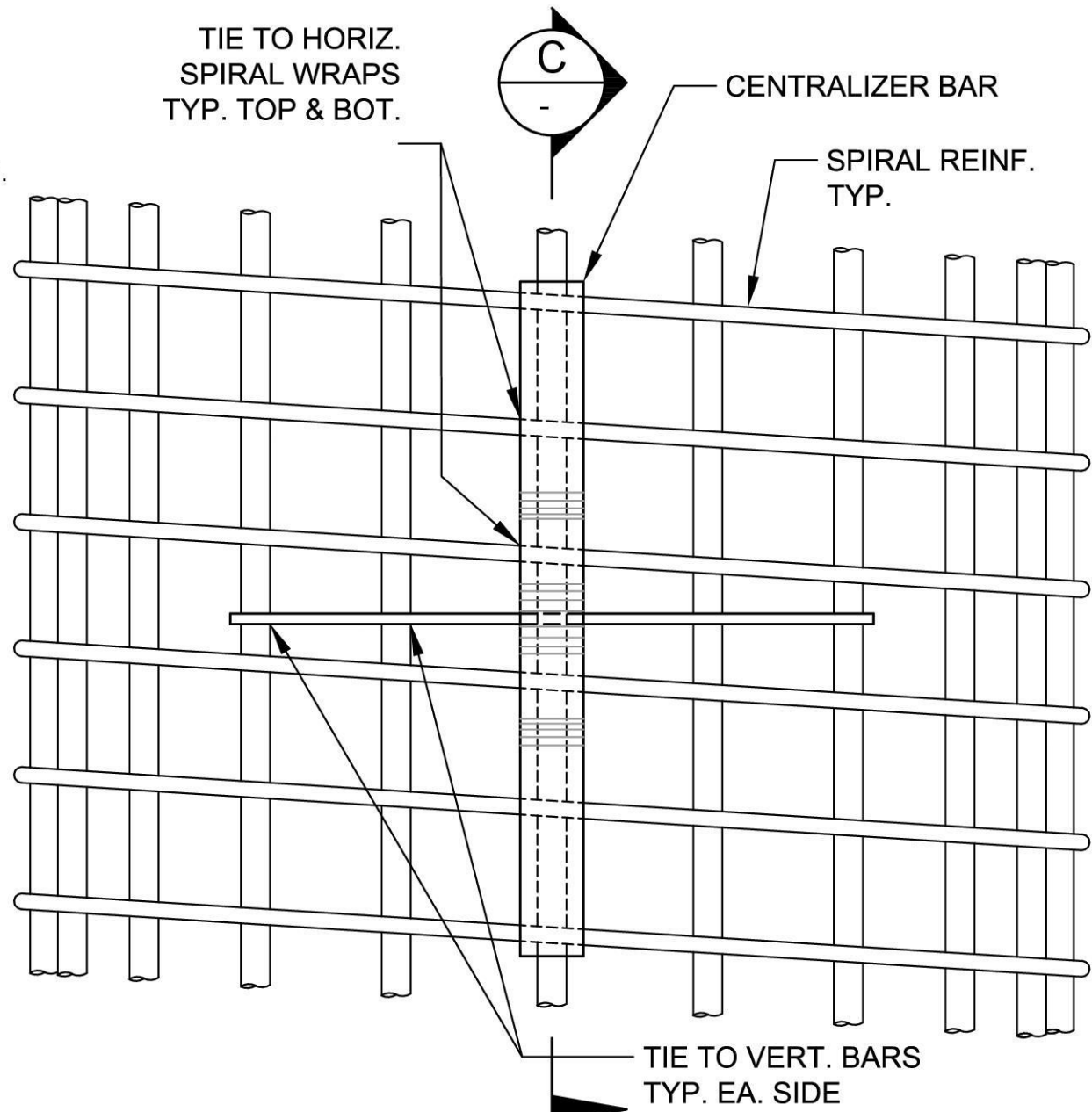
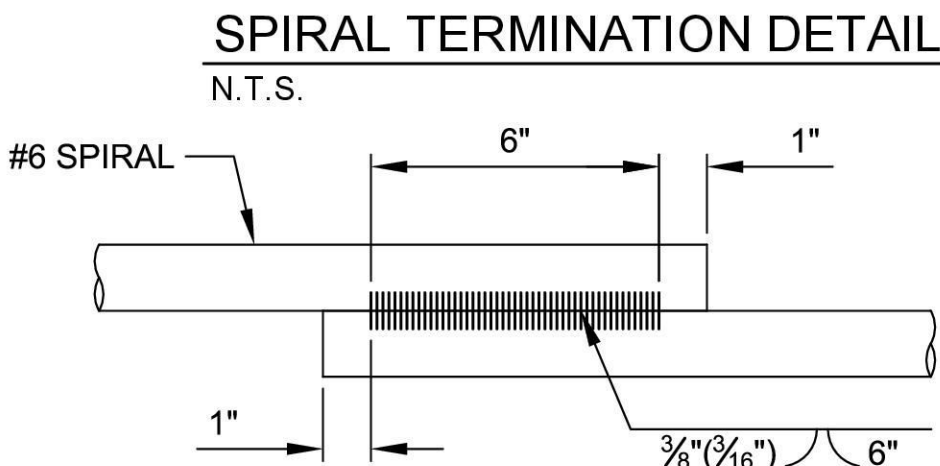
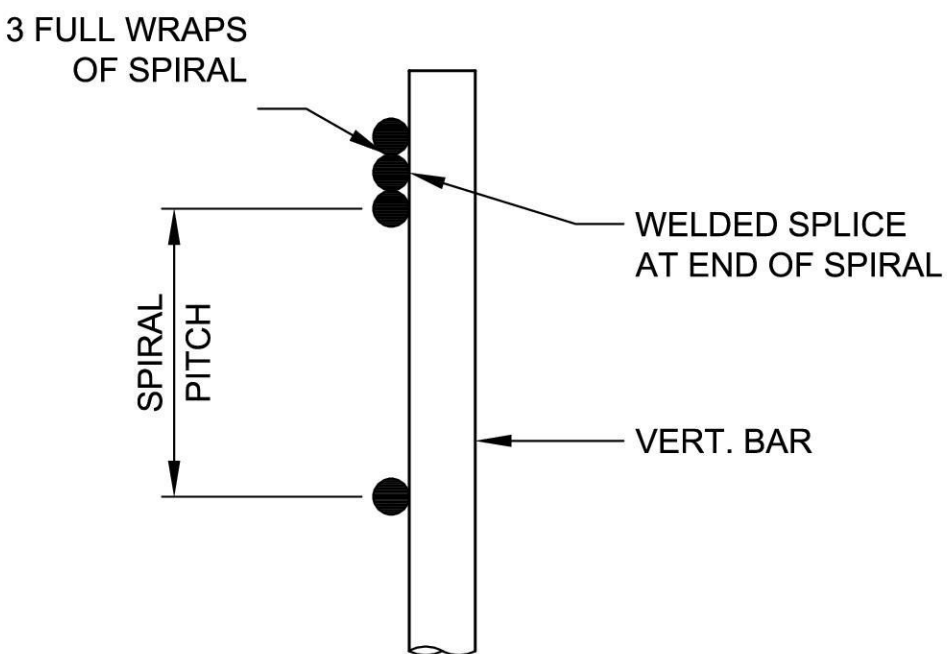
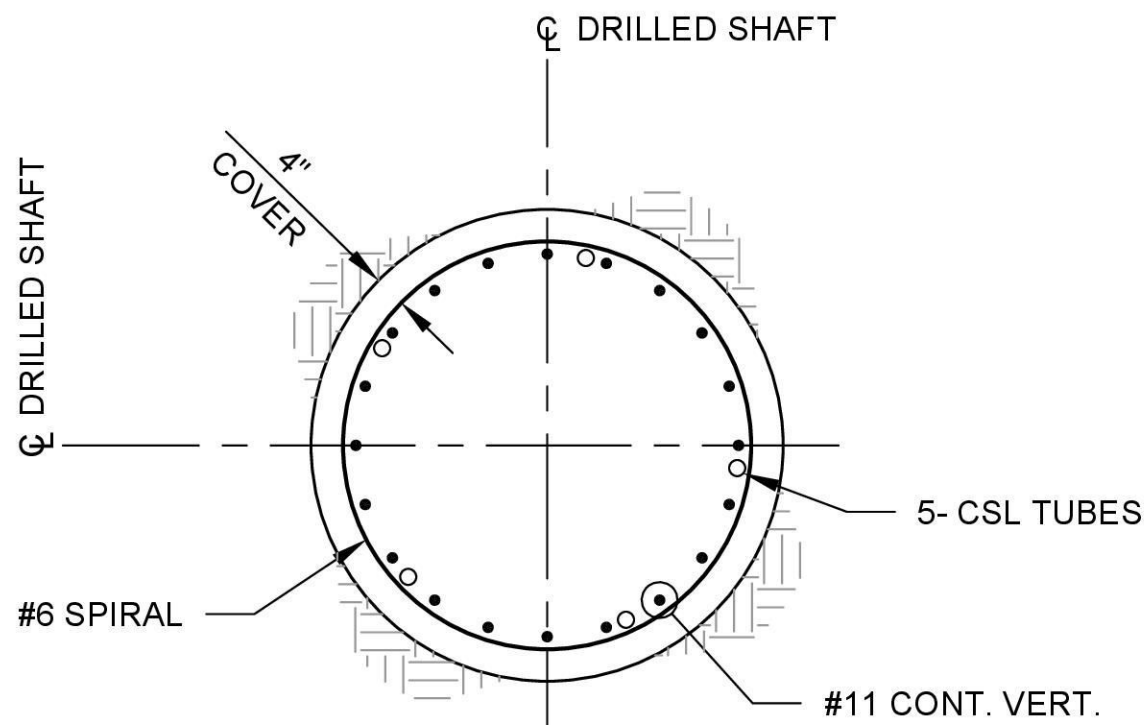
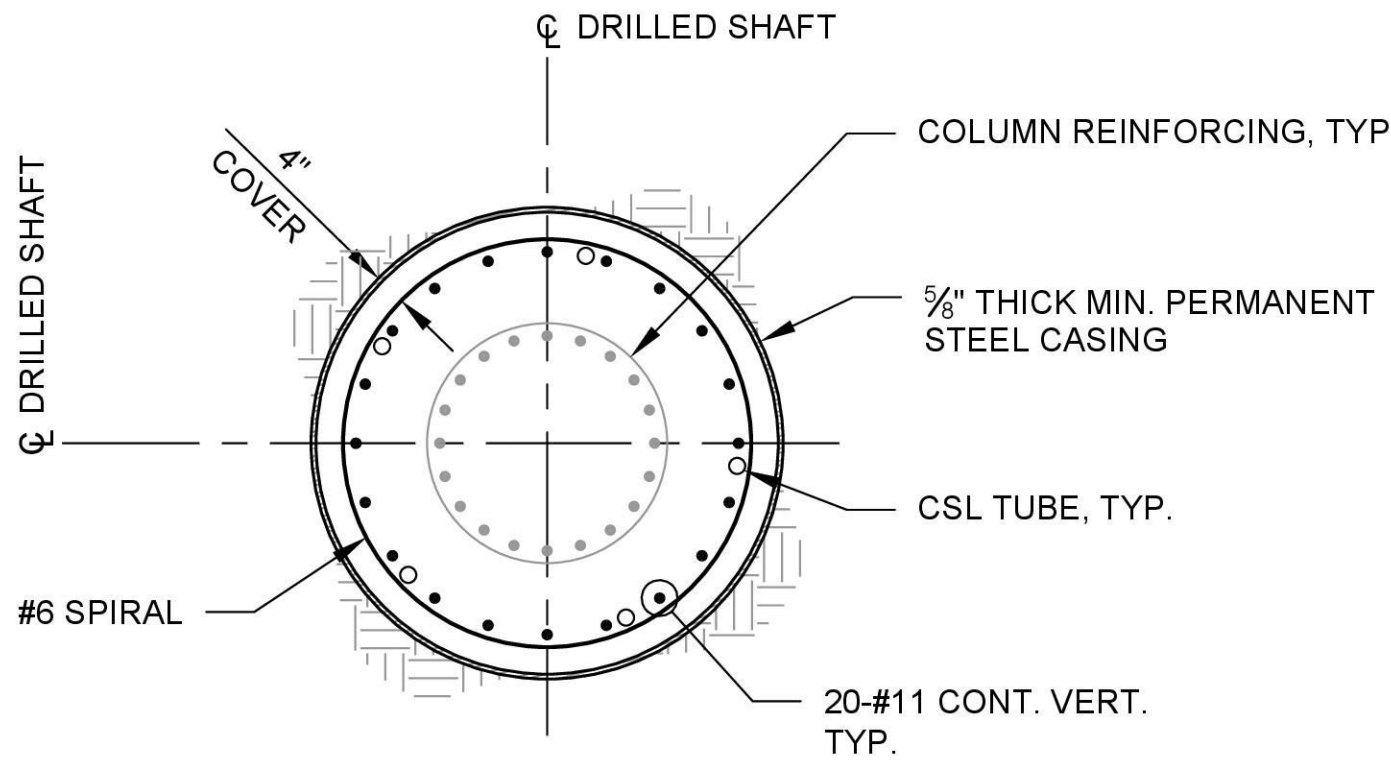
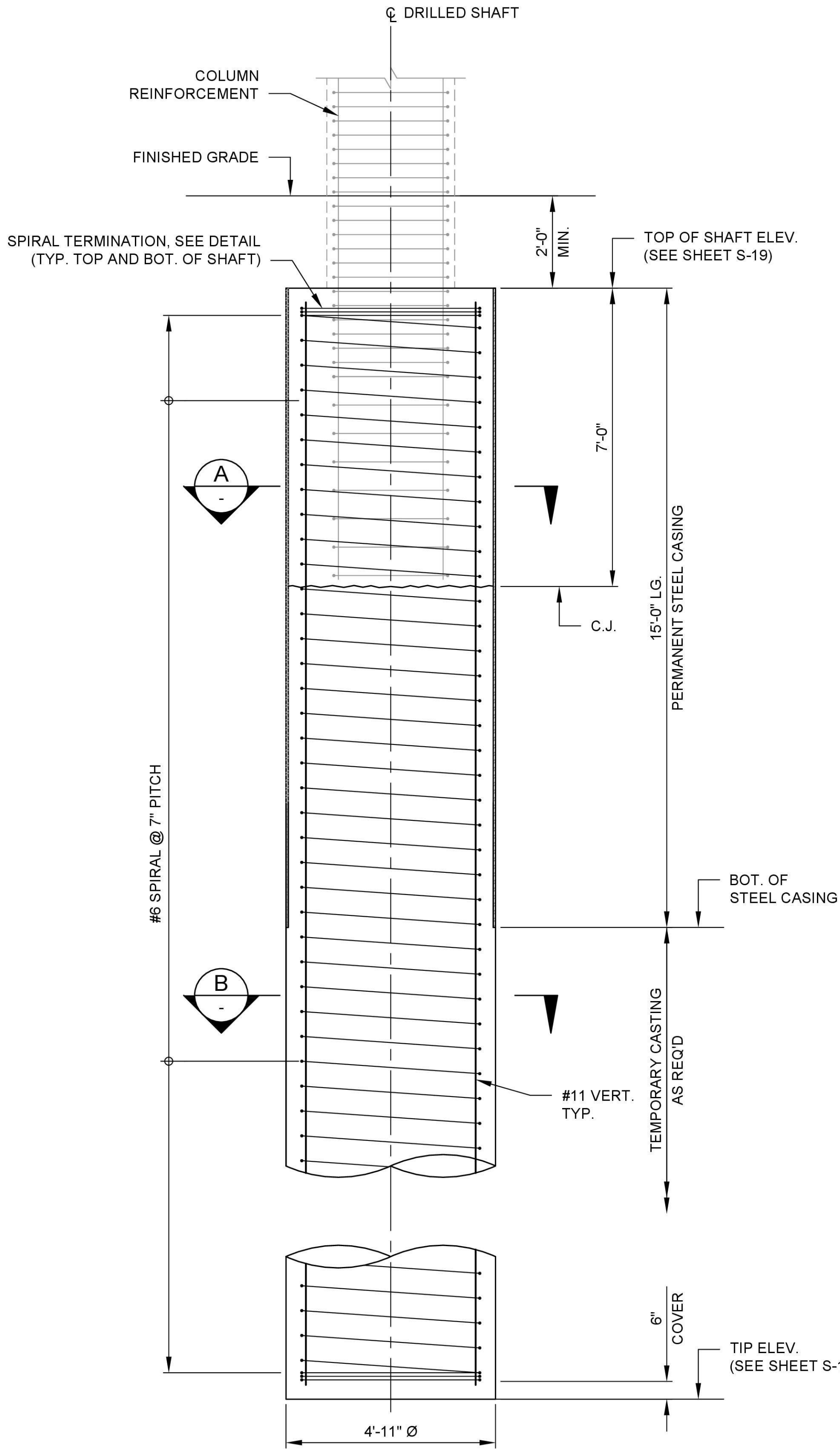
DESIGNED: CONG XU	DATE: 09/14/2026
DRAWN: SCOTT VARNEY	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

DRILLED SHAFT LAYOUT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S19	
PROJECT No: 1262	
SHEET: S-19	REV: 0

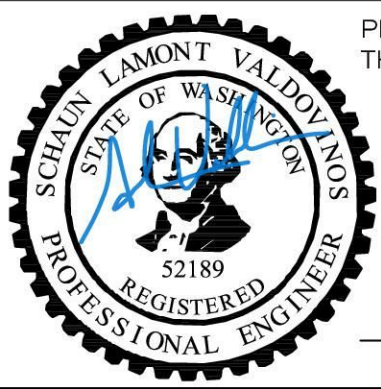


- CENTRALIZER NOTES:
- 1 MINIMUM CONCRETE COVER MINUS 1/2" MINUS CASING THICKNESS AT LOCATION.
 - 2 SEE STD. SPEC. 6-19.3(5)b FOR SPACING REQUIREMENTS.
 - 3 CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)c OR 9-08.1(2)f AFTER FABRICATION.
 - 4 EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BARS AND TWO (2) SPIRAL WRAPS.

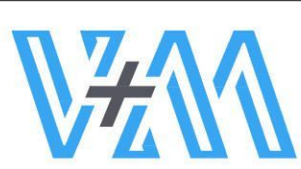
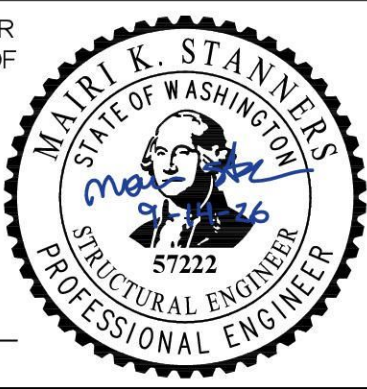
- NOTES:
- 1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - 2. THE EXACT LOCATIONS AND DEPTH OF ALL UNDERGROUND UTILITIES SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - 3. PRIOR TO CASTING CONNECTION TO COLUMN REINFORCEMENT, CONTRACTOR SHALL REMOVE LAITANCE DOWN TO SOUND CONCRETE AT THE CONSTRUCTION JOINT AND SHALL CLEAN EXPOSED REINFORCEMENT.
 - 4. LAP SPLICES SHALL NOT BE PERMITTED FOR LONGITUDINAL REINFORCEMENT. MECHANICAL SPLICES ARE PERMITTED WHERE THEY ARE STAGGERED AT 24".
 - 5. ALL WELDS FOR STEEL CASING SHALL BE COMPLETE JOINT PENETRATION GROOVE WELDS.
 - 6. AS-BUILT LOCATIONS AND ELEVATIONS OF SHAFTS SHALL BE SENT TO ENGINEER OF RECORD (EOR) PRIOR TO PROCEEDING WTH COLUMN CONSTRUCTION.
 - 7. CSL TESTING SHALL BE CONDUCTED REGARDLESS OF IF SHAFTS ARE CONSTRUCTED IN THE DRY.
 - 8. PERMANENT CASING TIP ELEVATIONS BASED ON 15' LENGTH OF CASING TO SOUND GROUND. NOMINAL CASING LENGTHS MAY DIFFER DUE TO TILL ELEVATION VARIATION. ELEVATION MUST BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO SHAFT REINFORCEMENT INSTALLATION.

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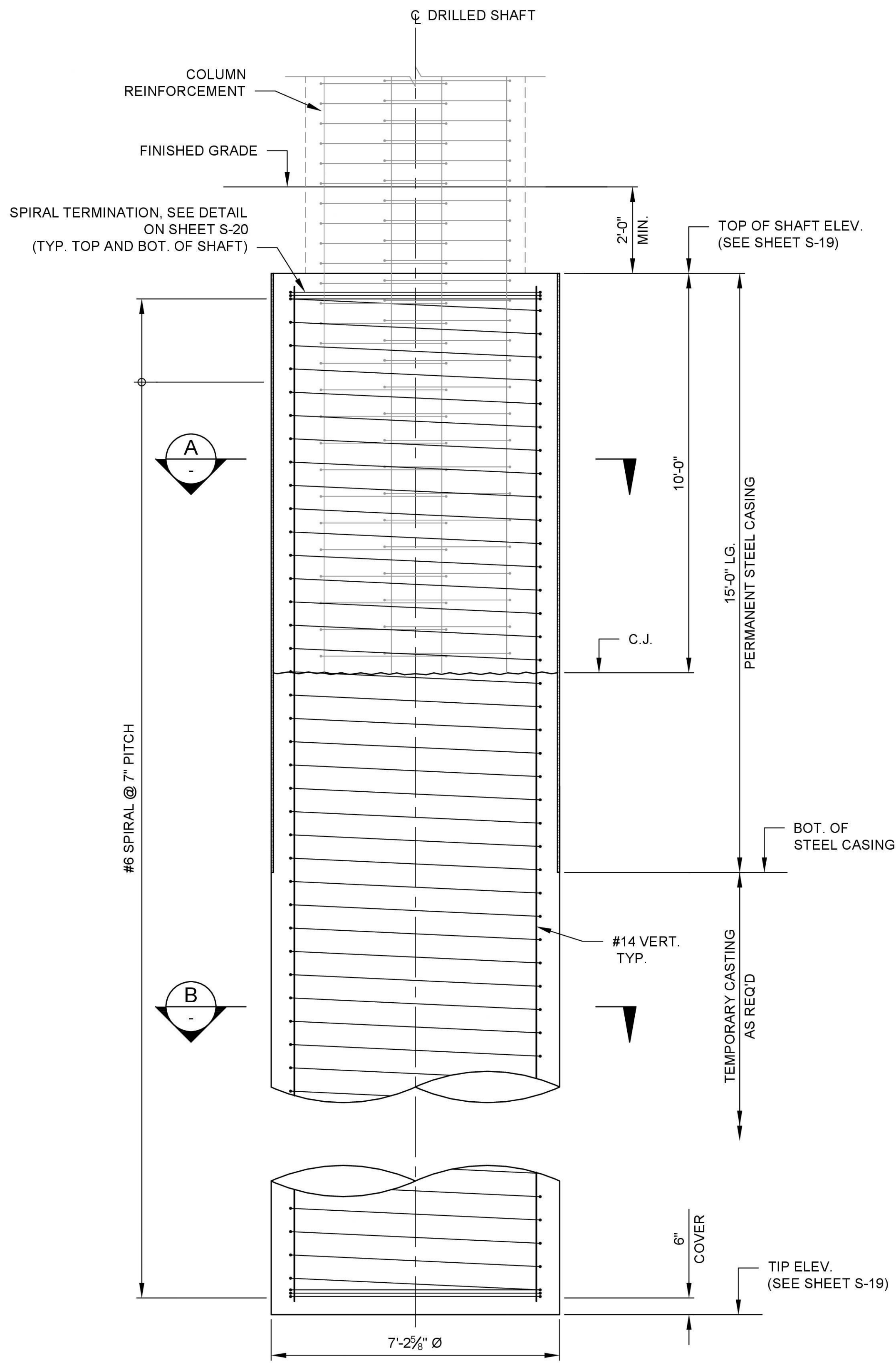
STRUCTURAL DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: MICHAEL CHUI DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

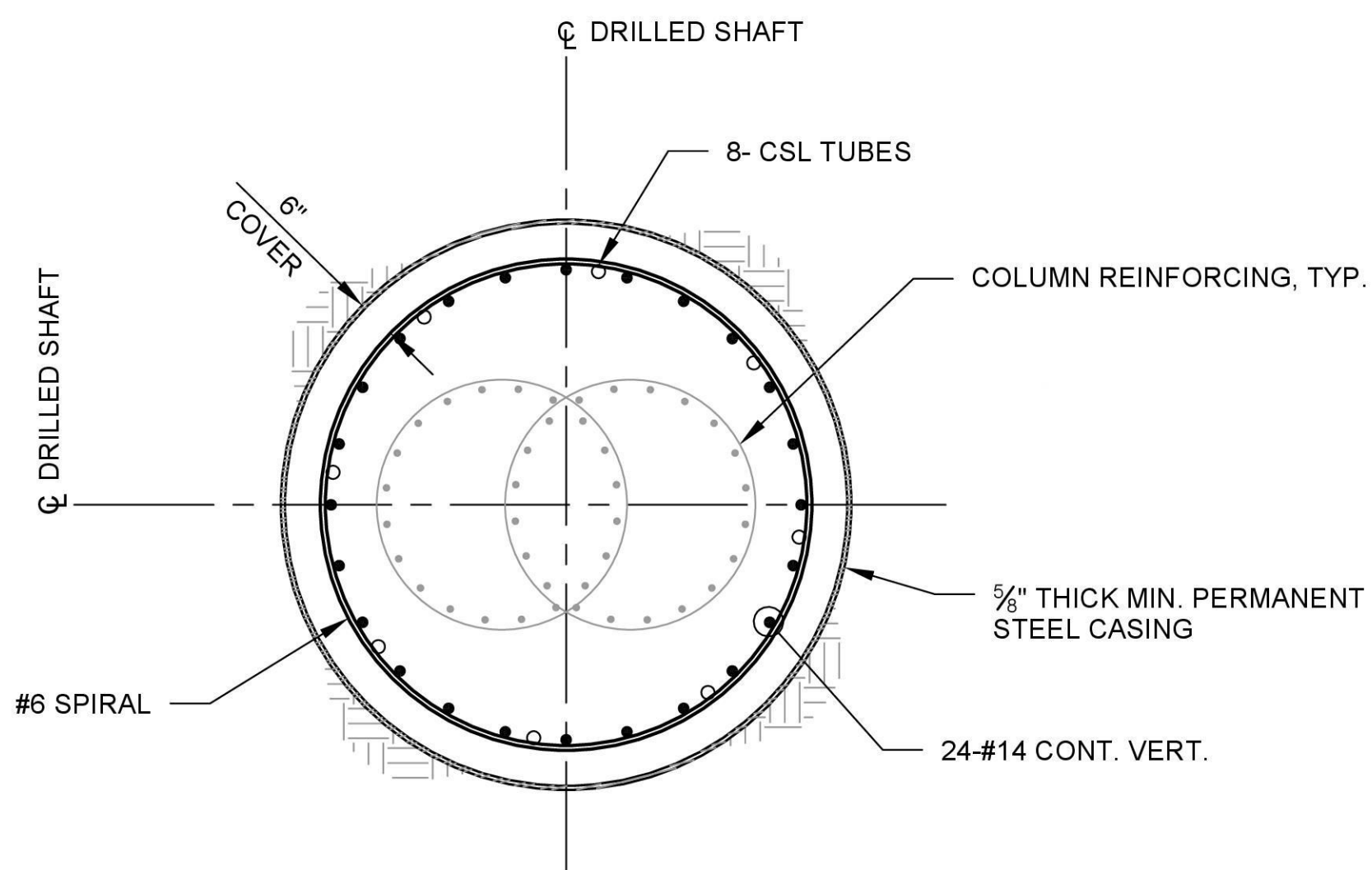


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
DRILLED SHAFT DETAILS
TYPE 1

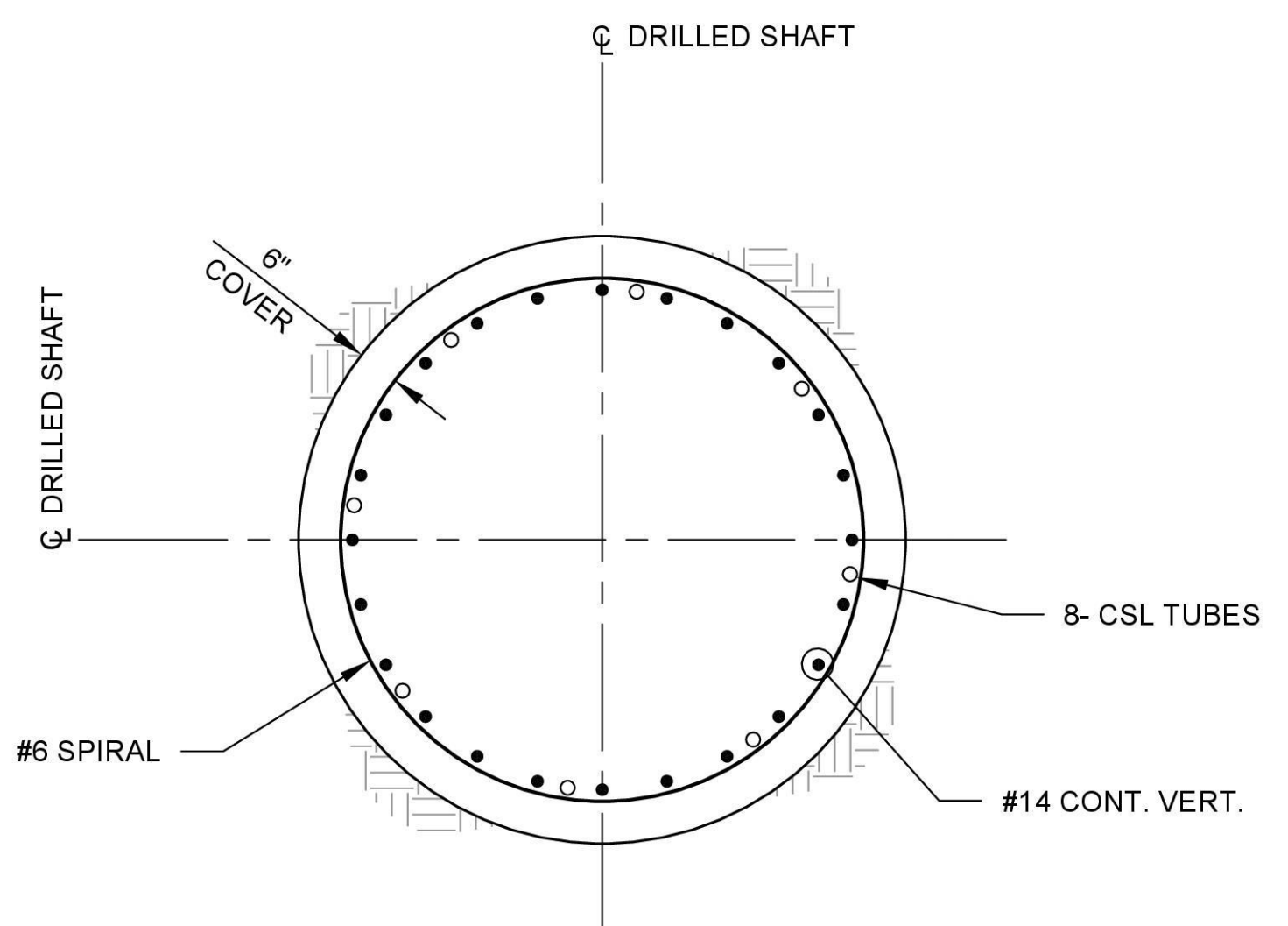
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S20	
PROJECT No: 1262	
SHEET: S-20	REV: 0



TYPE 2 DRILLED SHAFT ELEVATION
SCALE: 1/2" = 1'-0"



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



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

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - FOR DRILLED SHAFT NOTES SEE SHEET S-20.

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CONSTRUCTION**

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DATE



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DESIGN**

DESIGNED: CONG XU DATE: 09/14/2026

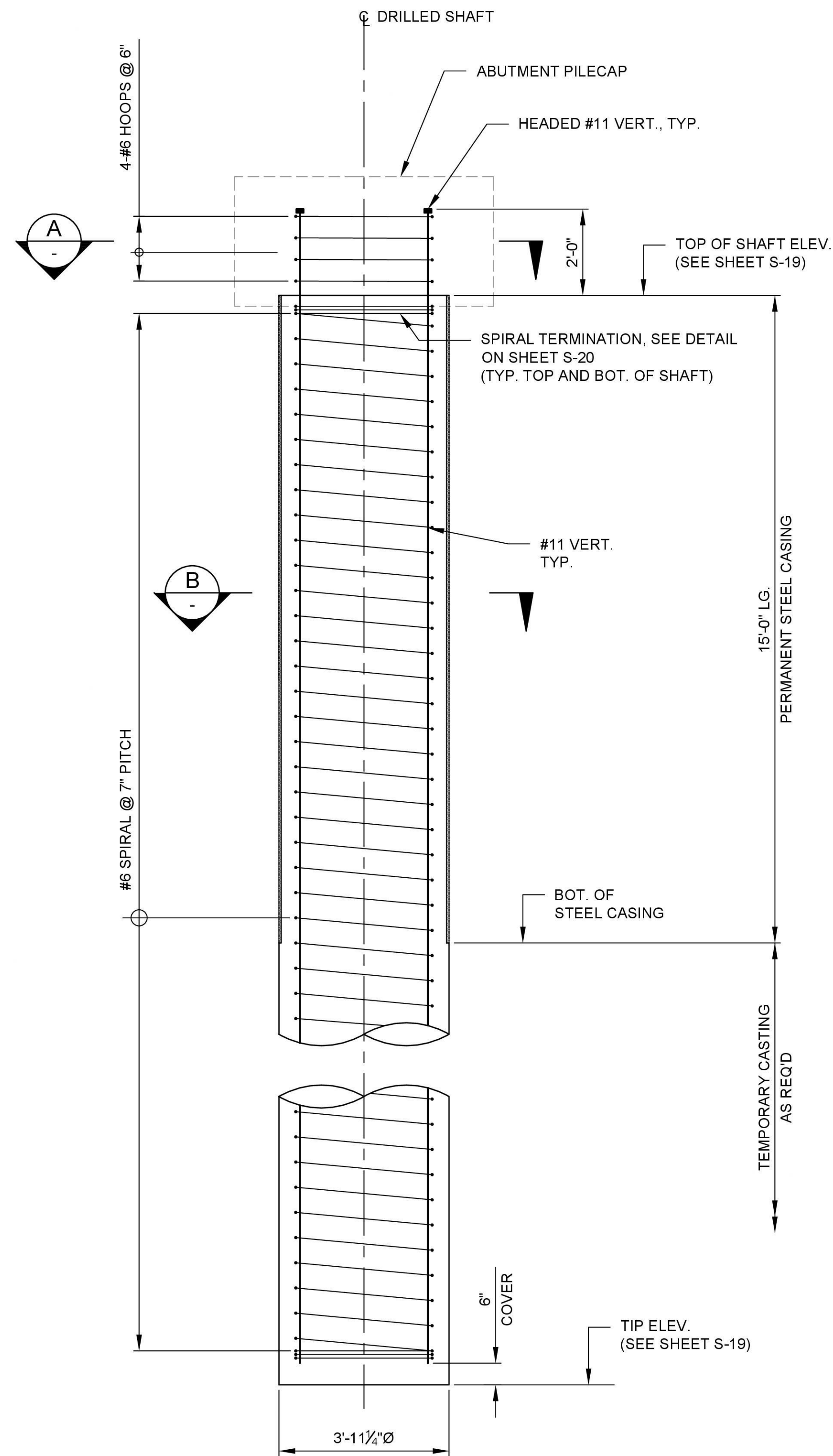
DRAWN: MICHAEL CHUI DATE: 09/14/2026

CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

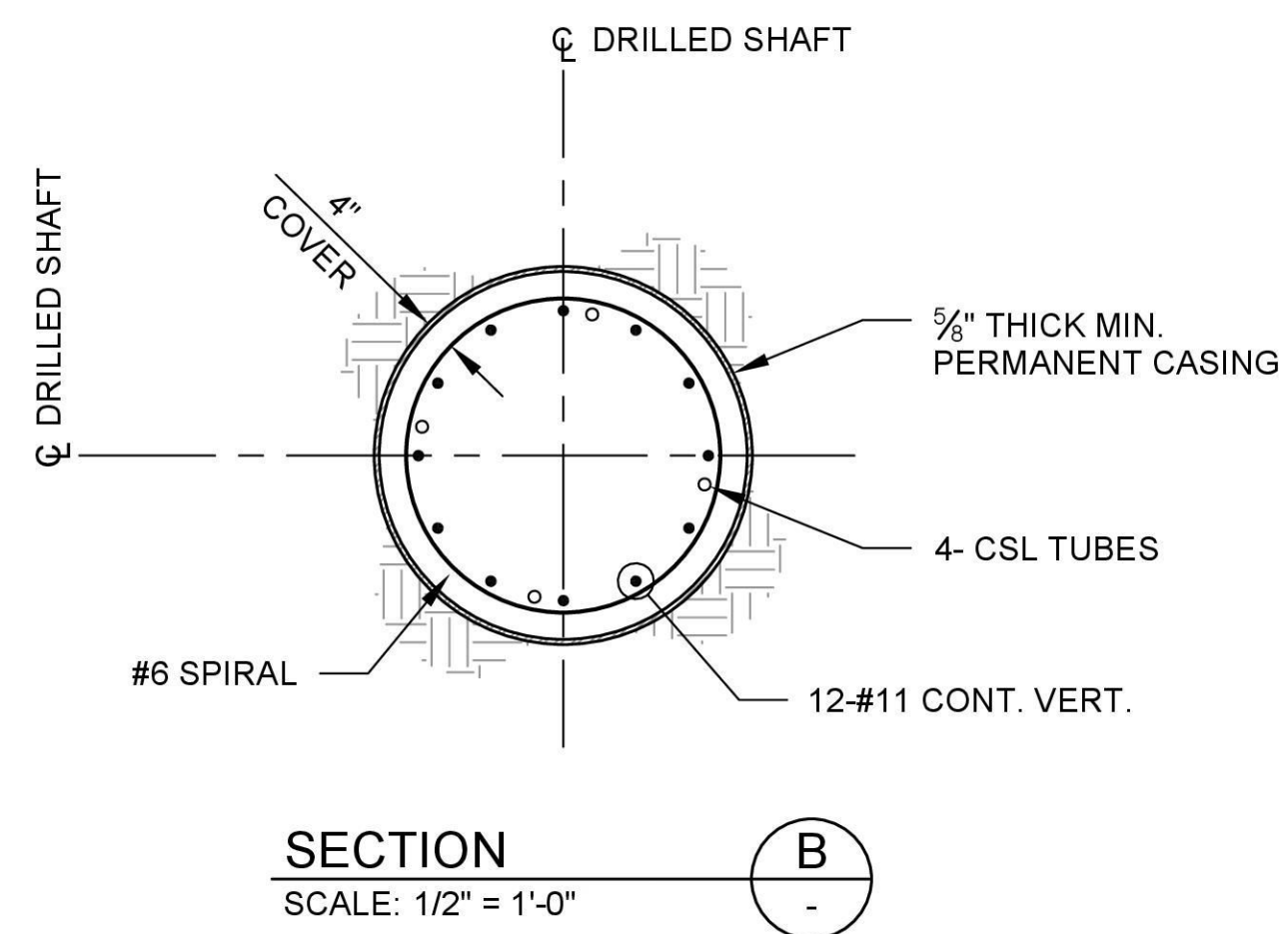
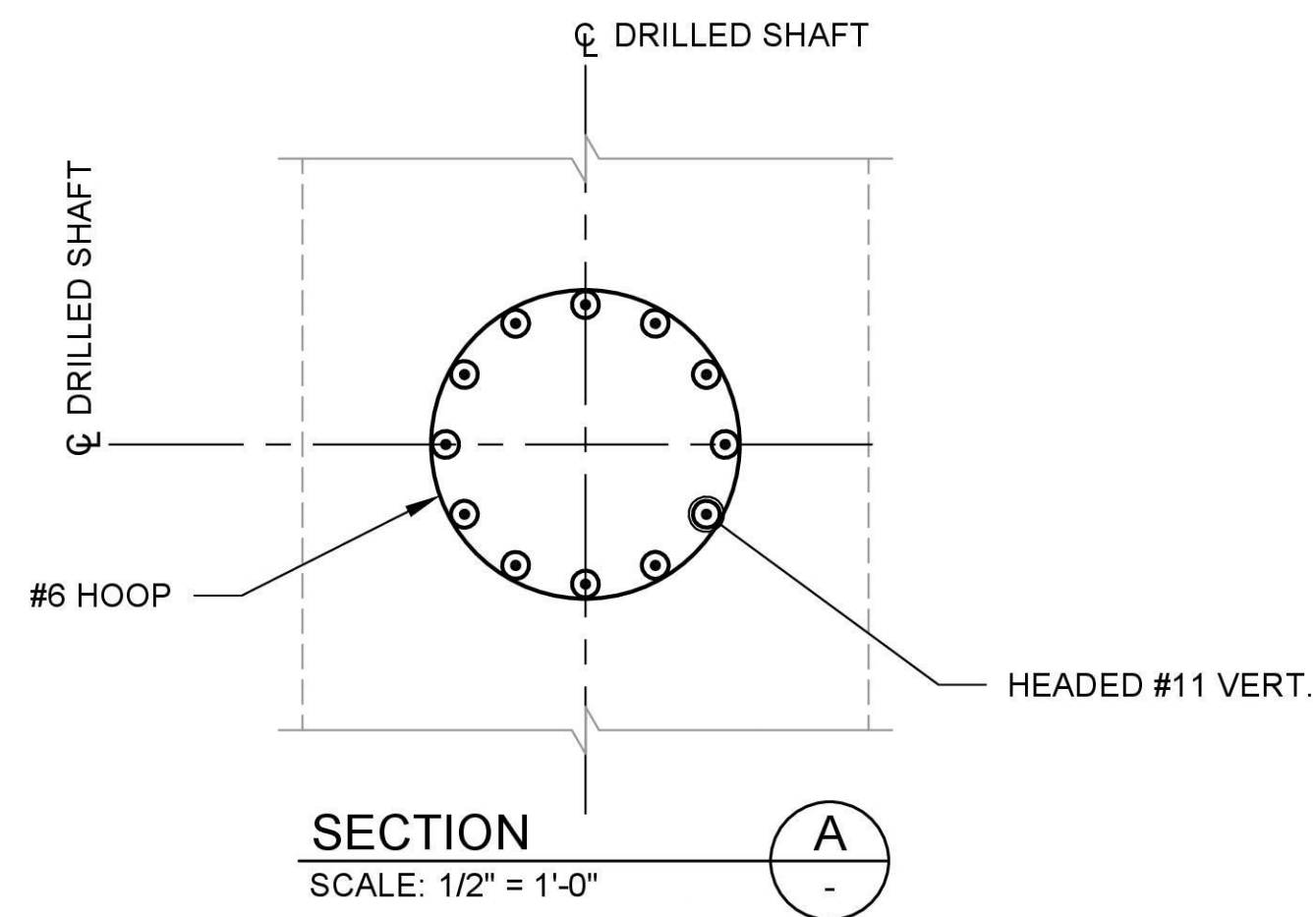


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
**DRILLED SHAFT DETAILS
TYPE 2**

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S21	
PROJECT No: 1262	
SHEET: S-21	REV: 0



TYPE 3 DRILLED SHAFT ELEVATION
SCALE: 1/2" = 1'-0"



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- FOR DRILLED SHAFT NOTES SEE SHEET S-20.
- HEADED REBAR MUST USE TERMINATORS LISTED IN THE WSDOT QUALIFIED PRODUCTS LIST.

SHEET 22 OF 108

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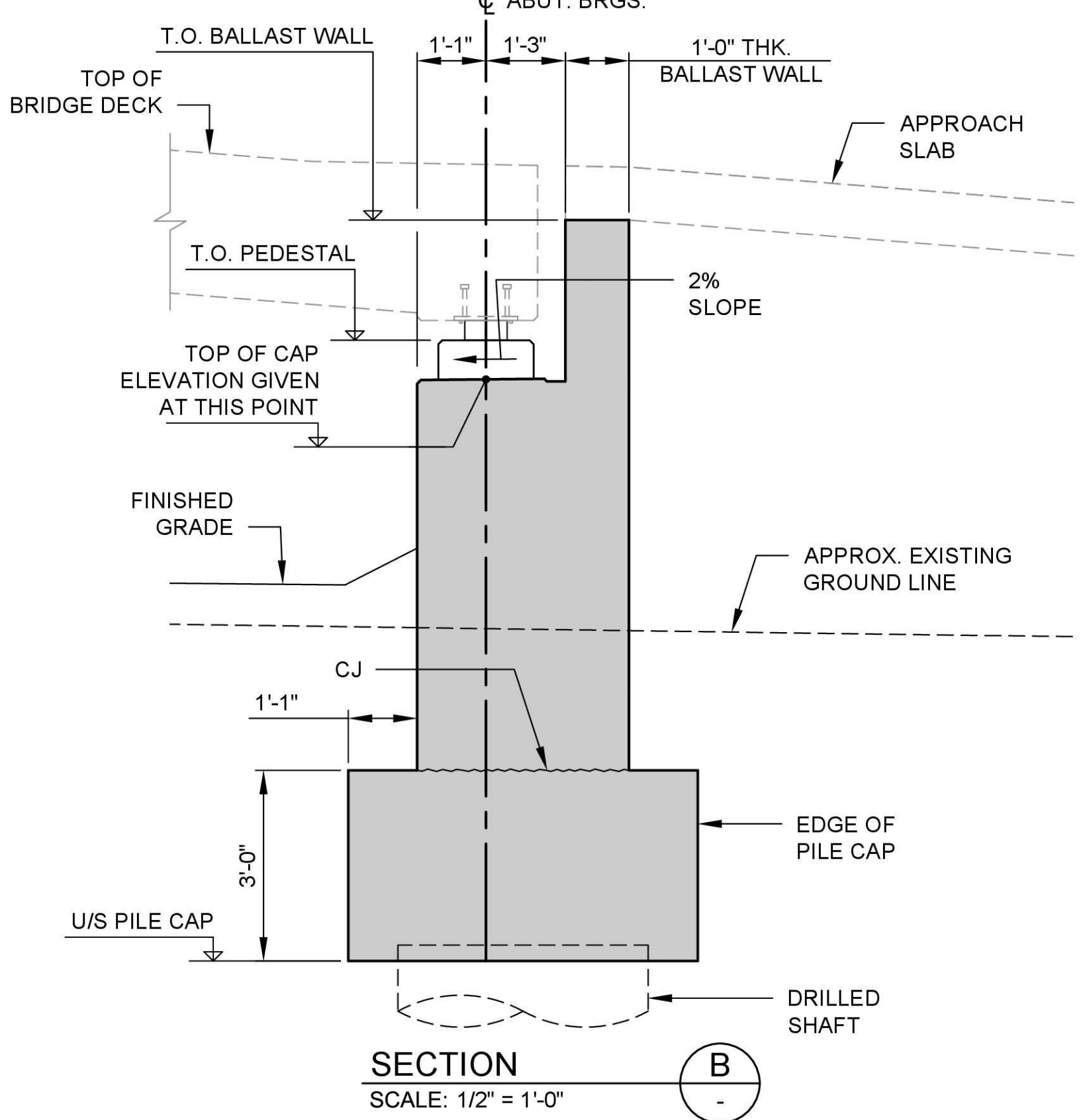
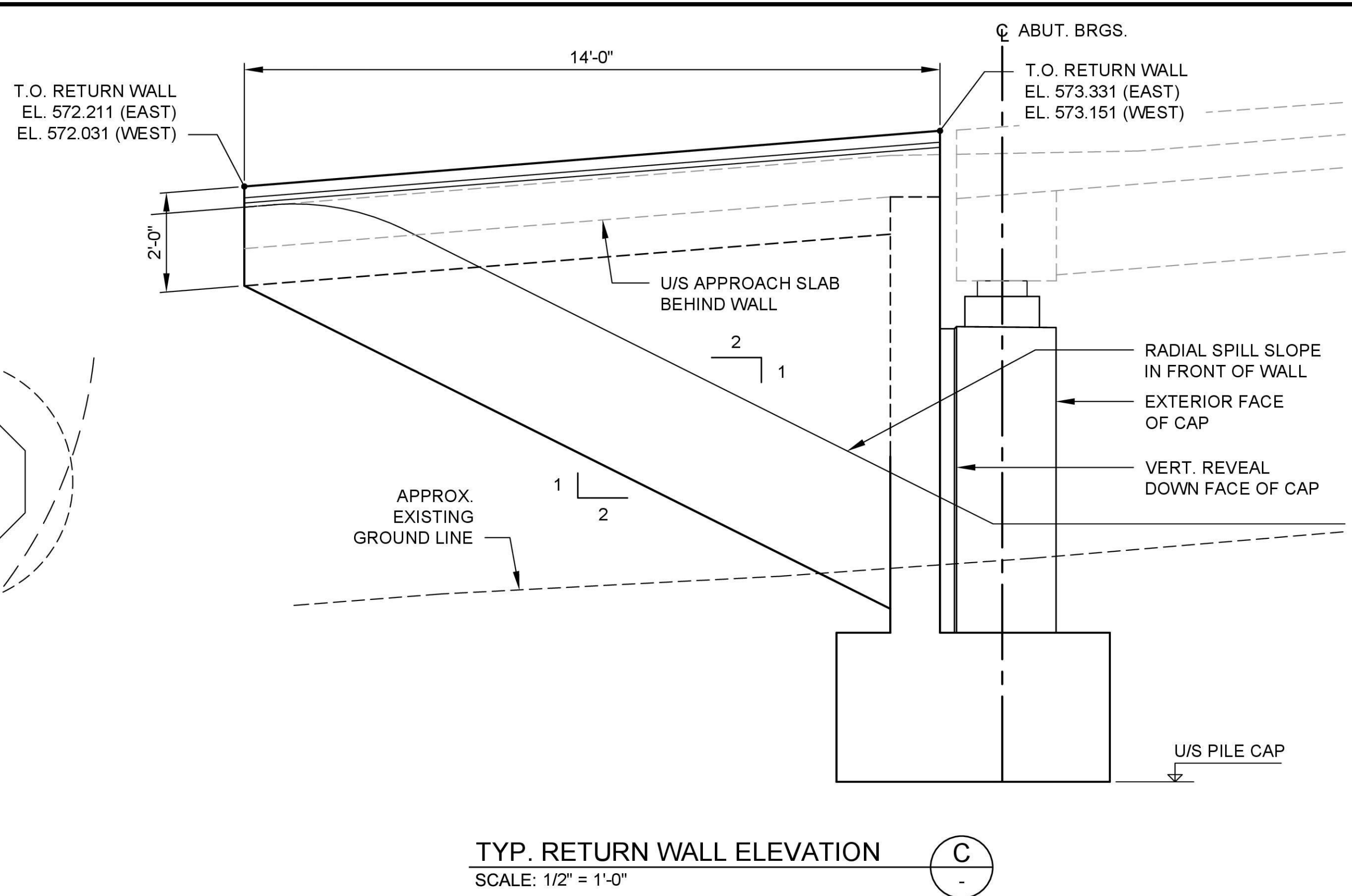
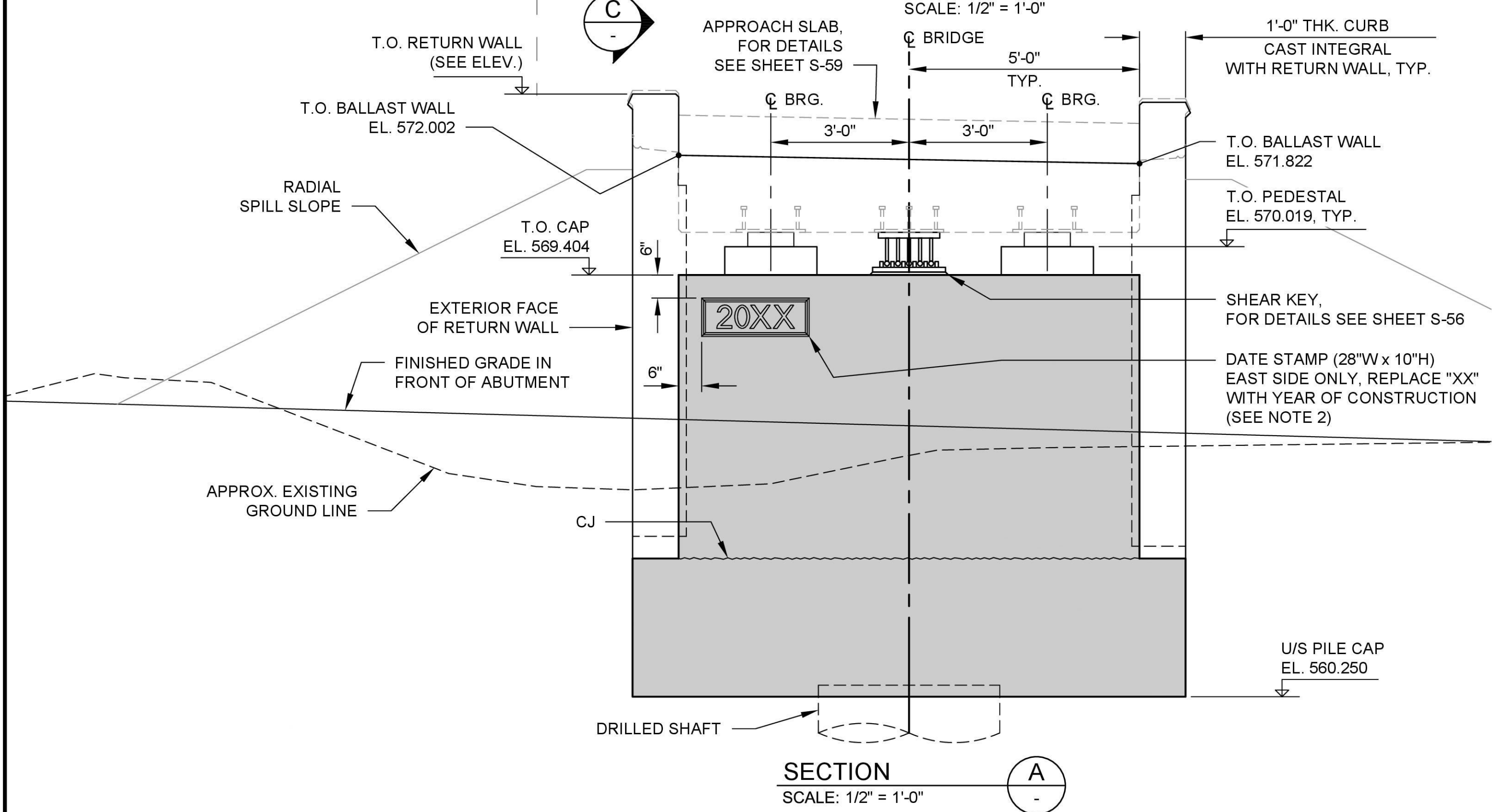
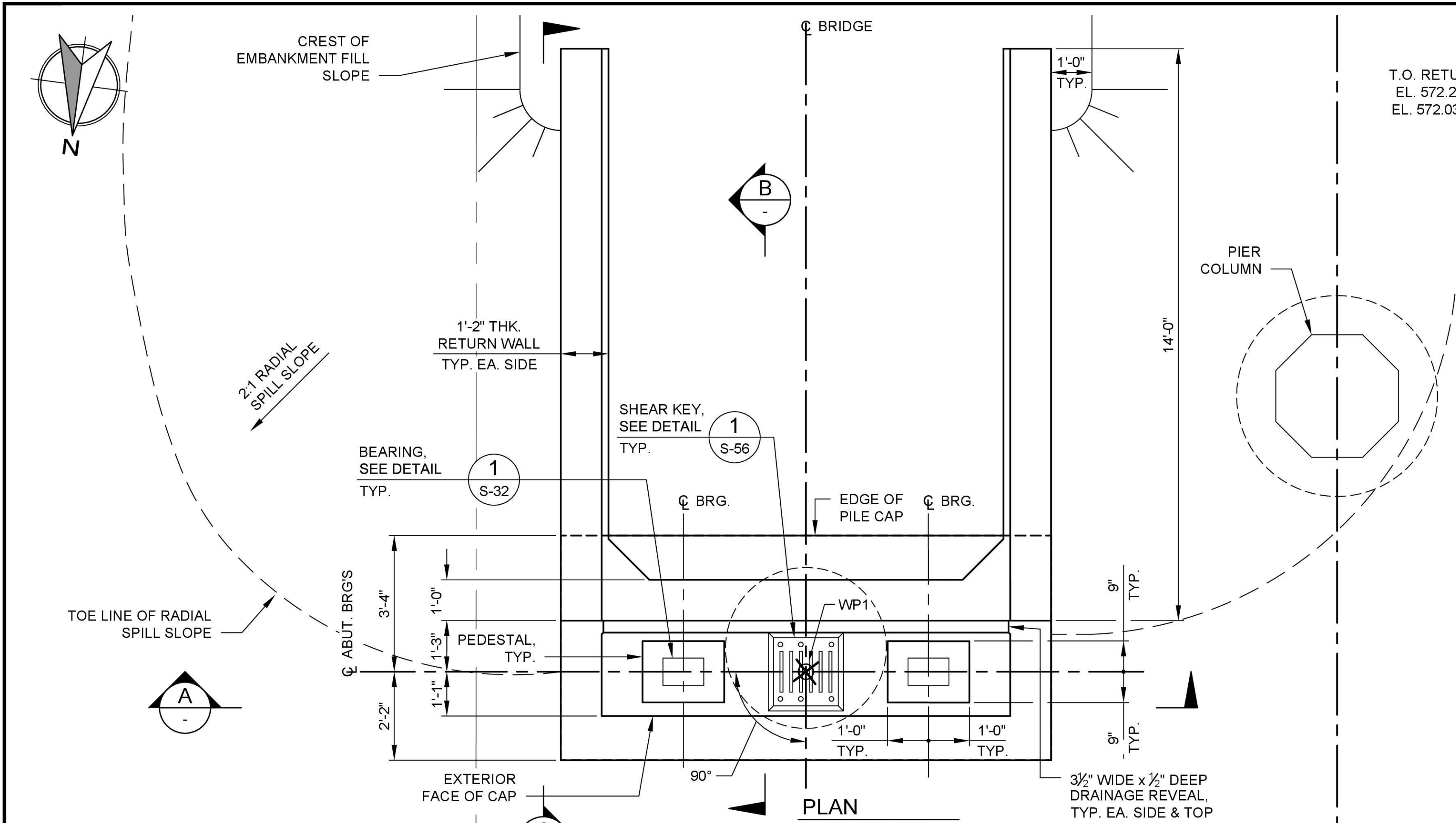
**STRUCTURAL
DESIGN**

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
DRILLED SHAFT DETAILS
TYPE 3

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S22	
PROJECT No: 1262	
SHEET: S-22	REV: 0



- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - DATE STAMP SHALL HAVE A 1/2" DEEP V-GROOVE AROUND ITS PERIMETER. NUMBERS SHALL BE 6" HIGH HELVETICA FONT (OR APPROVED ALTERNATIVE). NUMBERS SHALL BE STAMPED RECESSES UTILIZING METAL OR PLASTIC STENCILS WITH A GROOVE WIDTH OF 1/4".

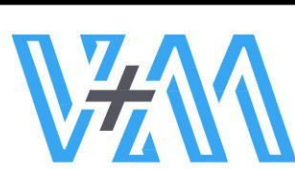
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REV	DATE	DESCRIPTION	BY
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DATE



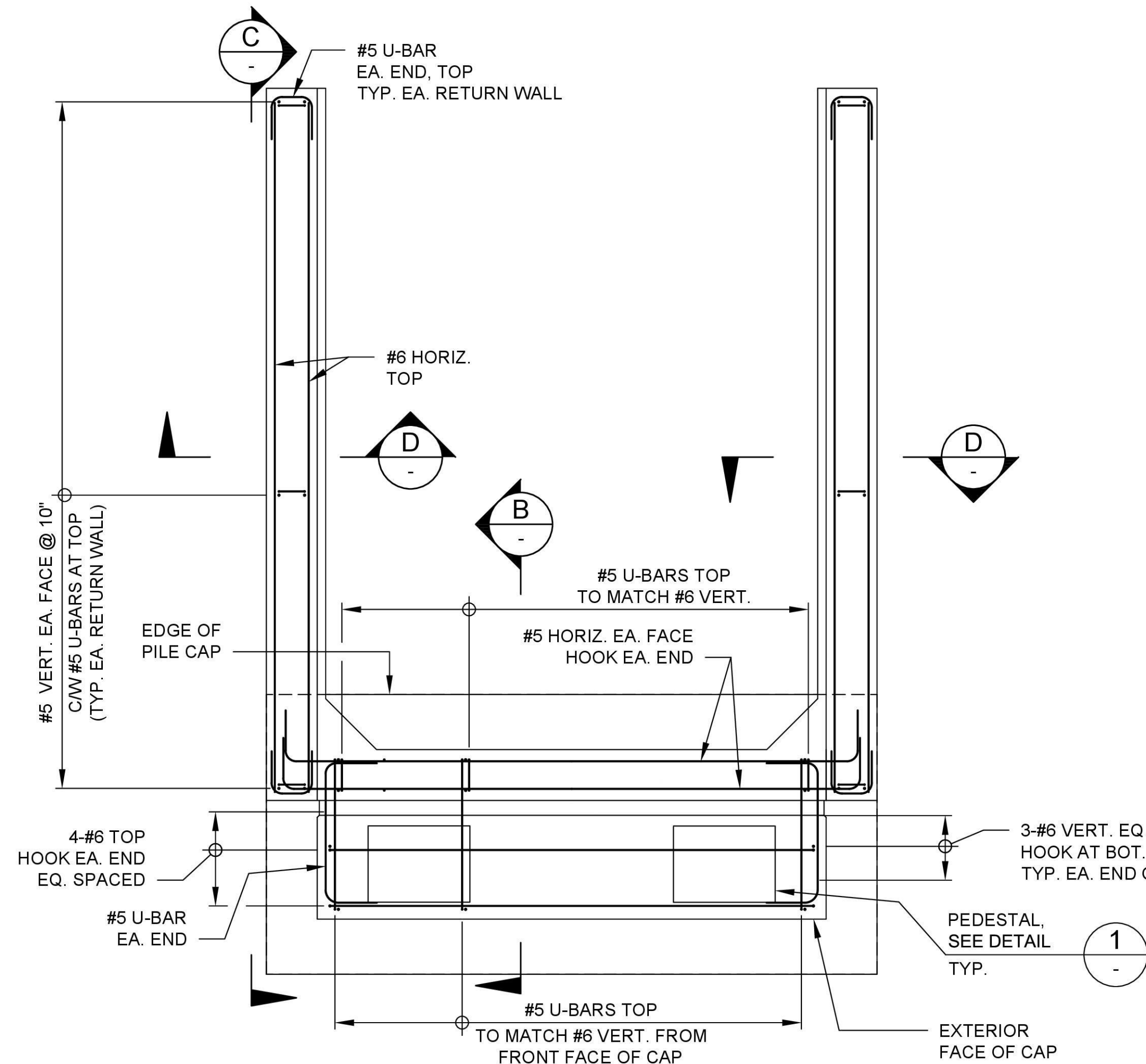
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

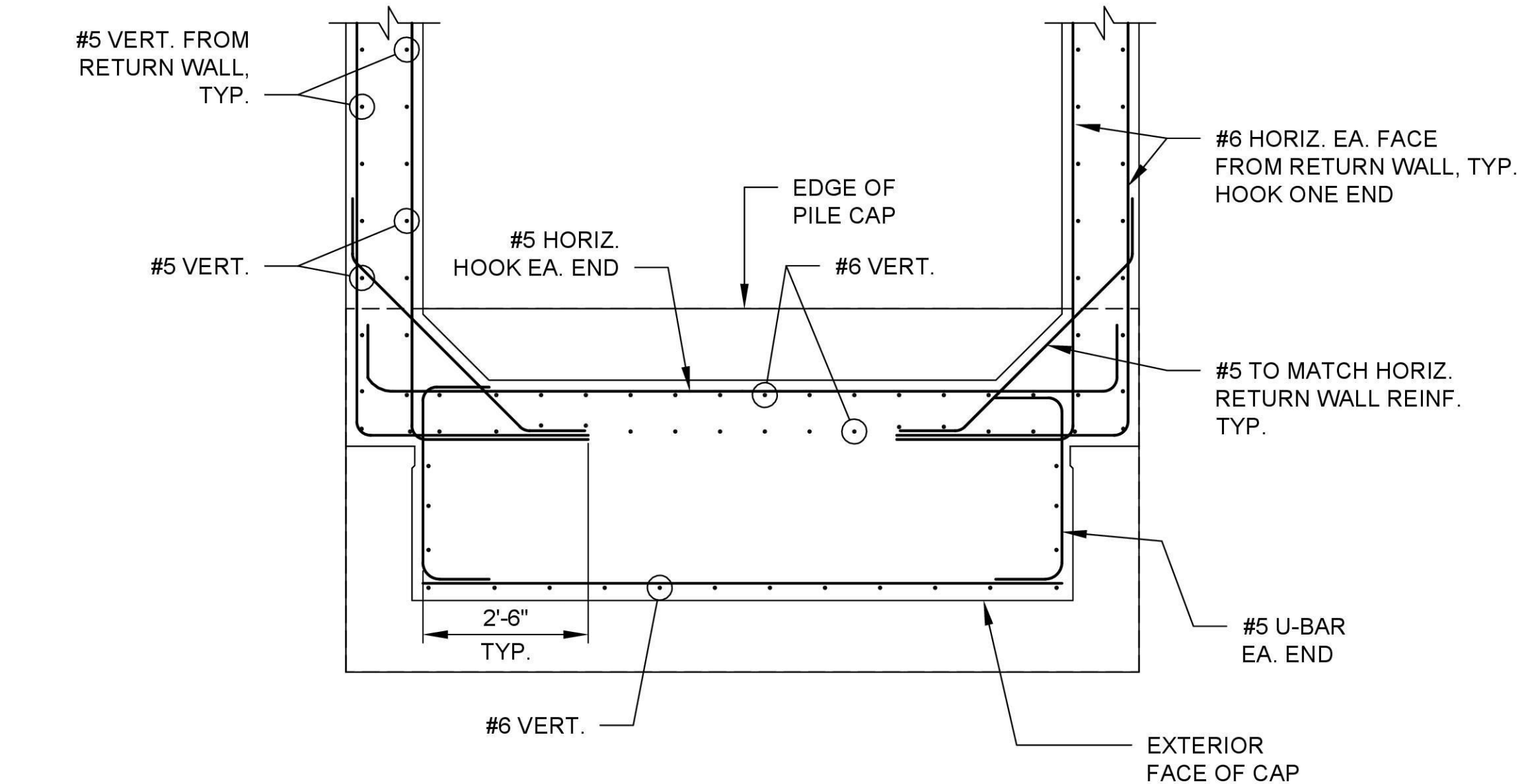


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ABUTMENT 1
LAYOUT AND DETAILS

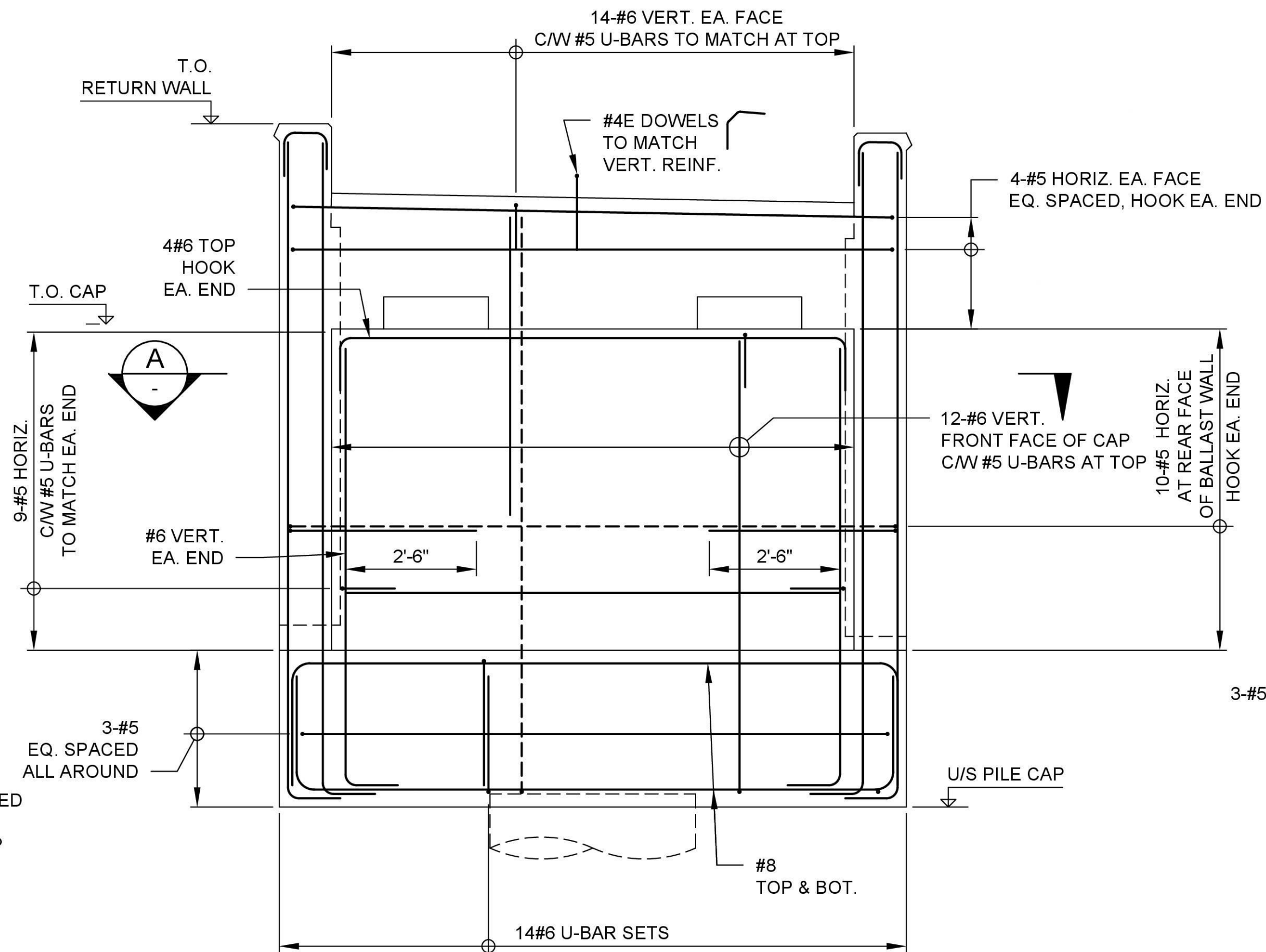
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S23	
PROJECT No: 1262	
SHEET: S-23	REV: 0



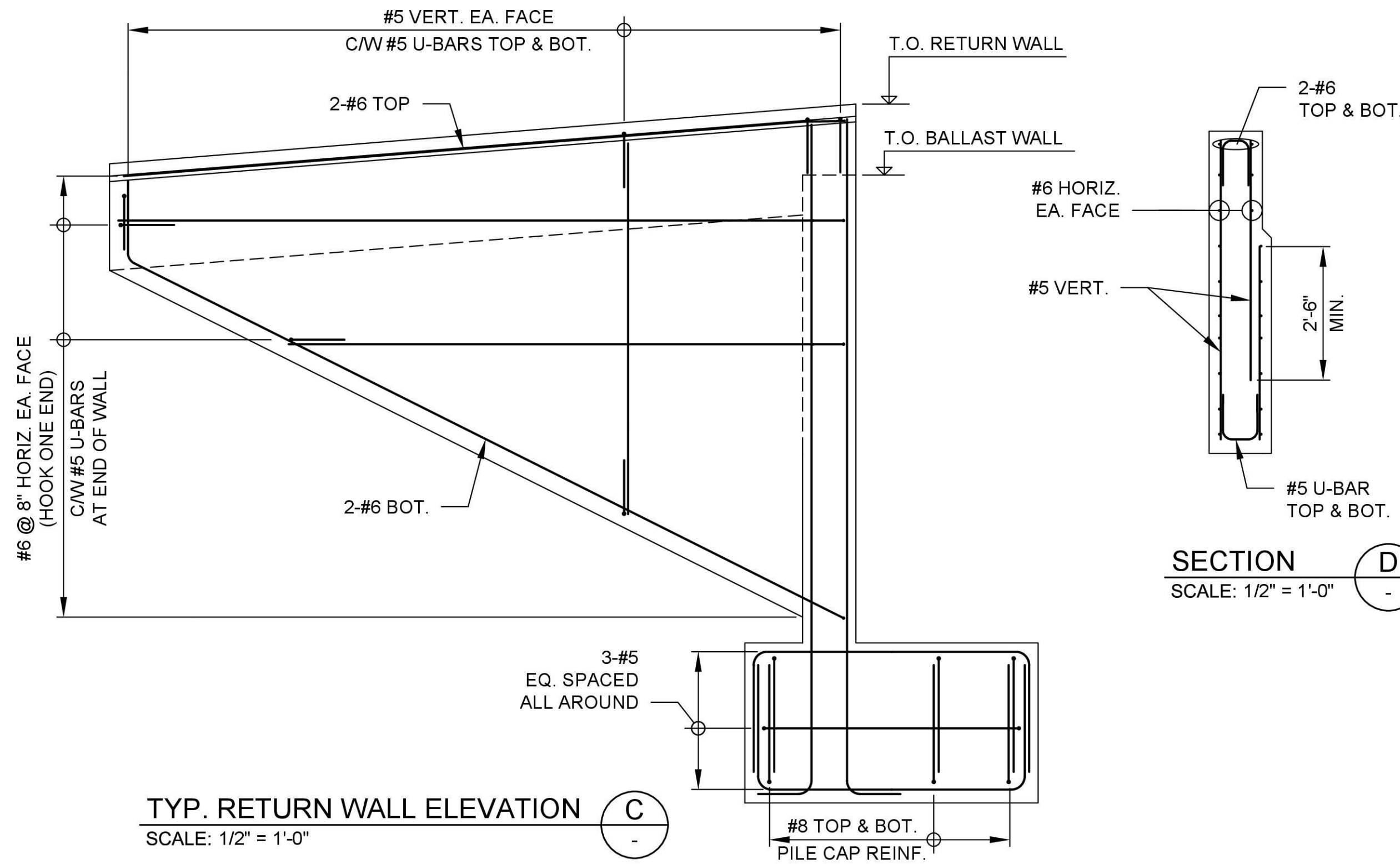
PLAN- TOP OF BALLAST WALL & CAP
SCALE: 1/2" = 1'-0"



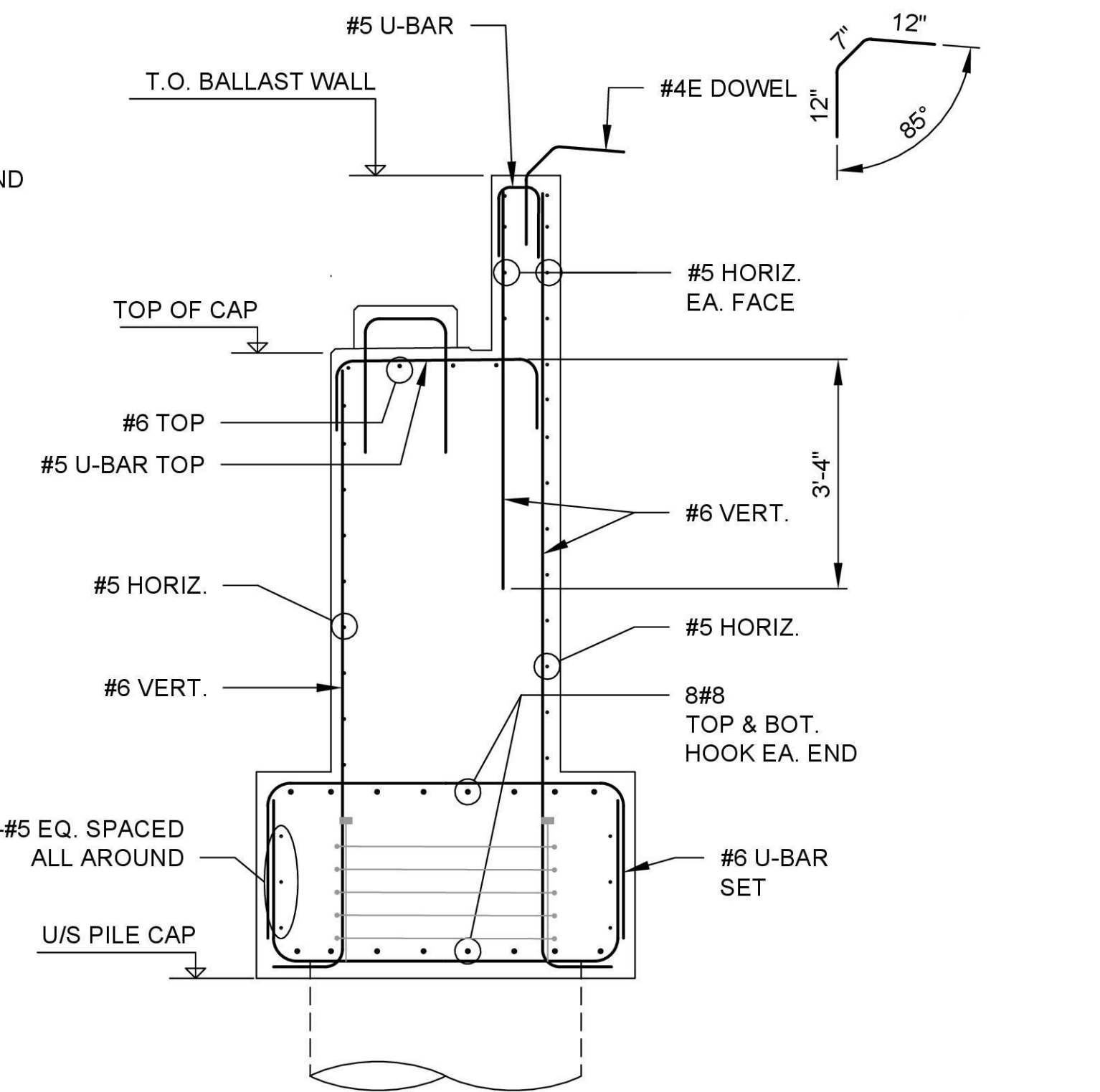
SECTION A-A
SCALE: 1/2" = 1'-0"



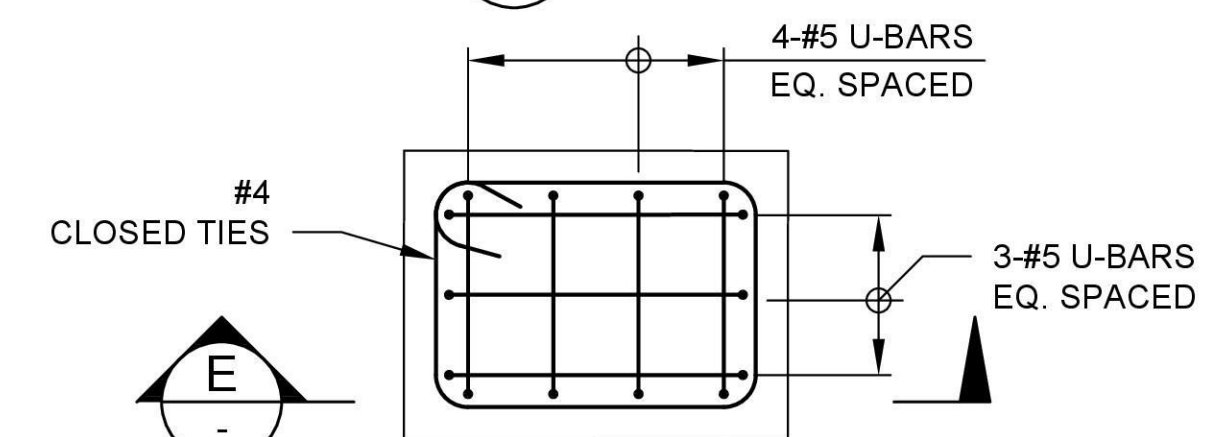
ELEVATION
SCALE: 1/2" = 1'-0"



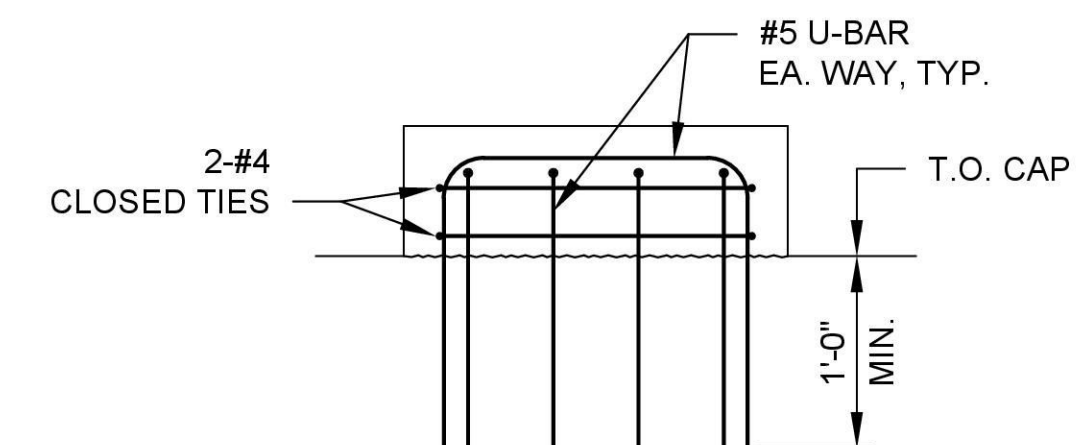
TYP. RETURN WALL ELEVATION C-C
SCALE: 1/2" = 1'-0"



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



TYP. PEDESTAL DETAIL 1
SCALE: 1" = 1'-0"



SECTION E-E
SCALE: 1" = 1'-0"

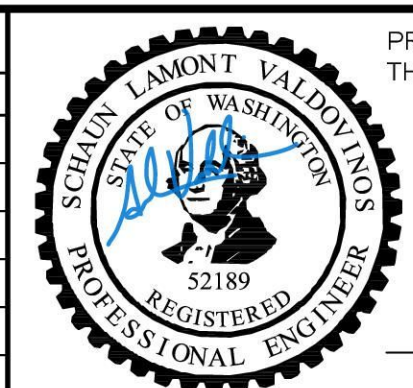
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 AND S-04.
- ABUTMENT 12 REINFORCEMENT TO MATCH DETAILS SHOWN ON THIS SHEET (MIRRORED).

SHEET 24 OF 108

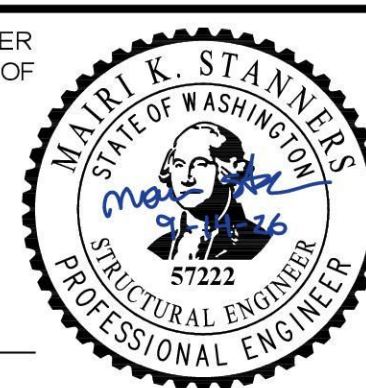
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09-14-2026
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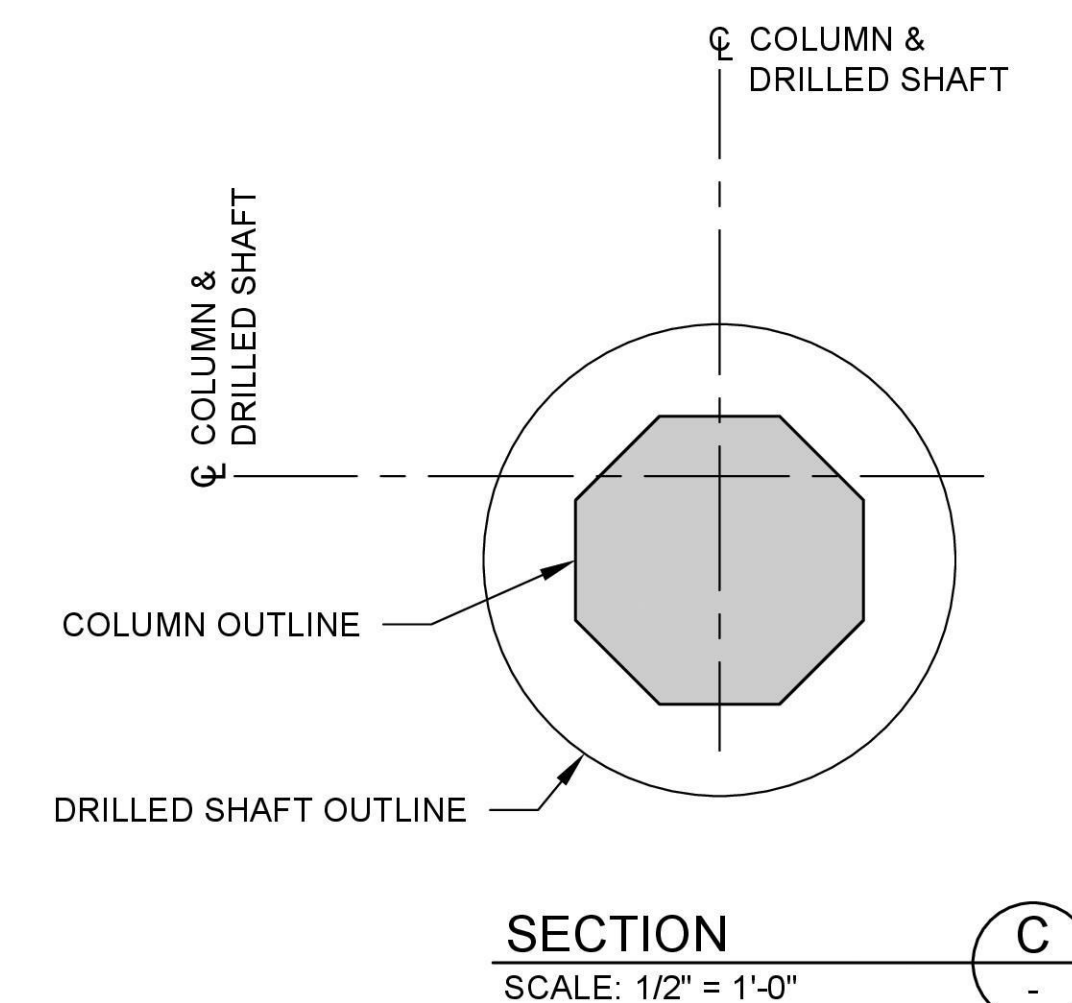
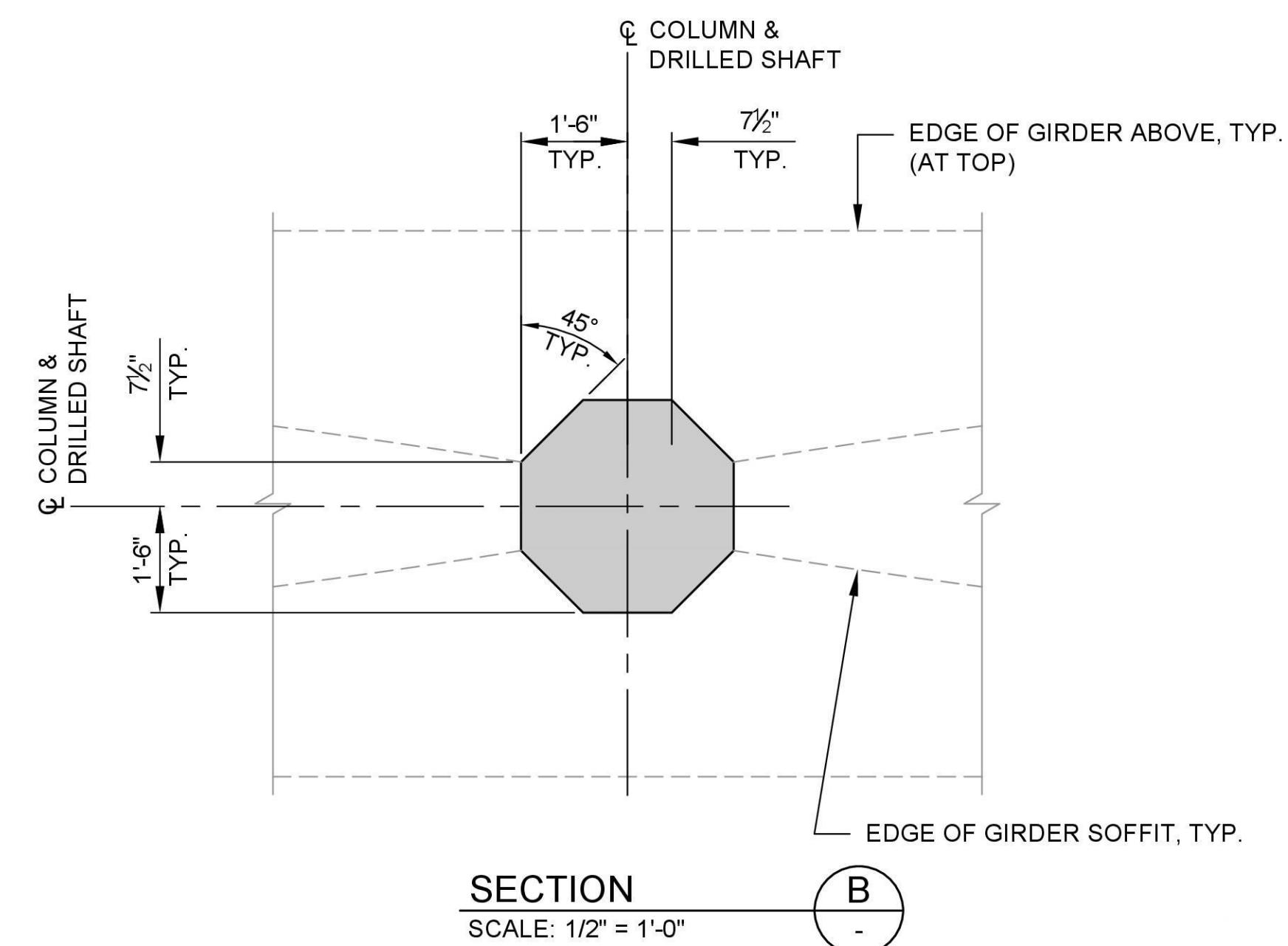
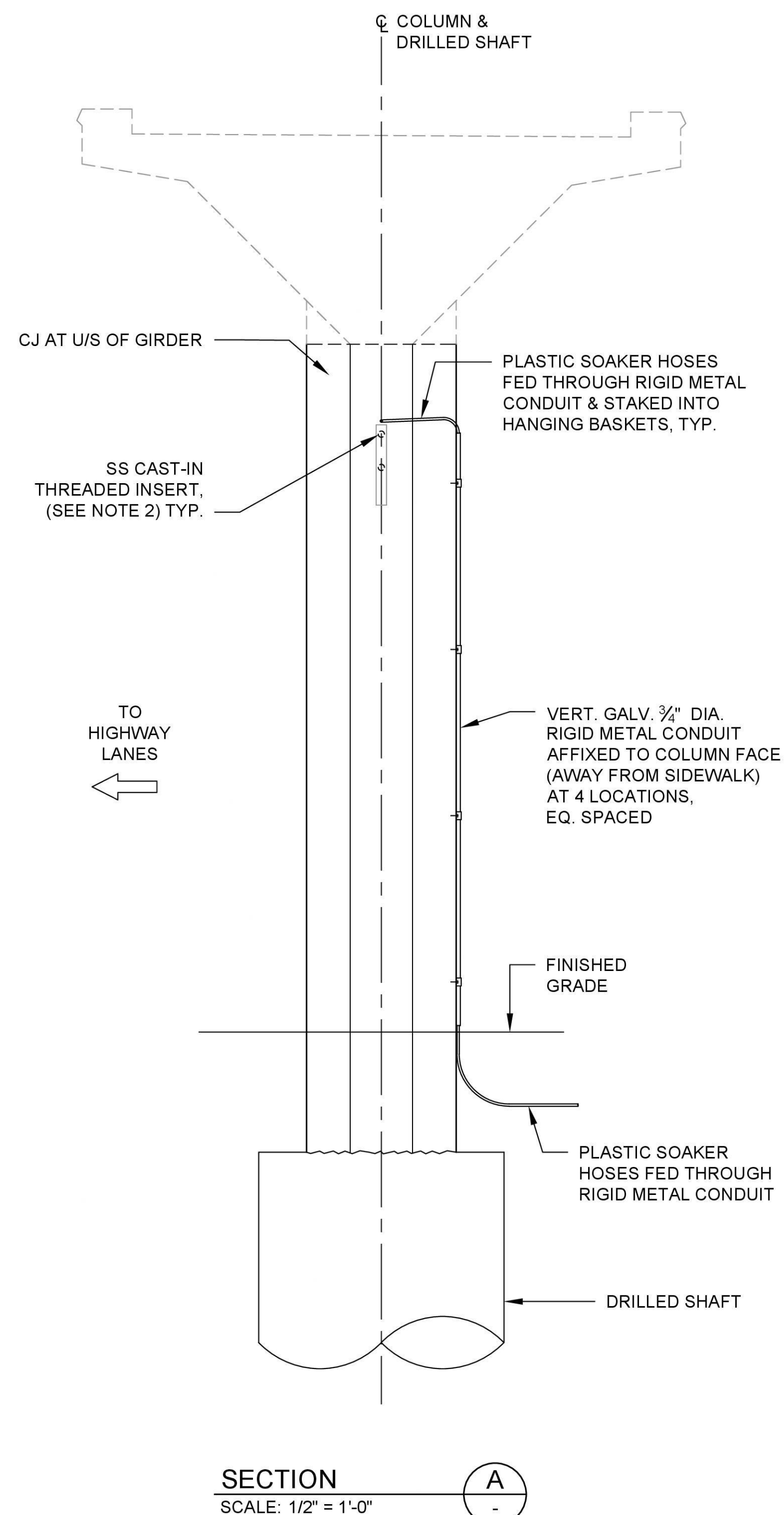
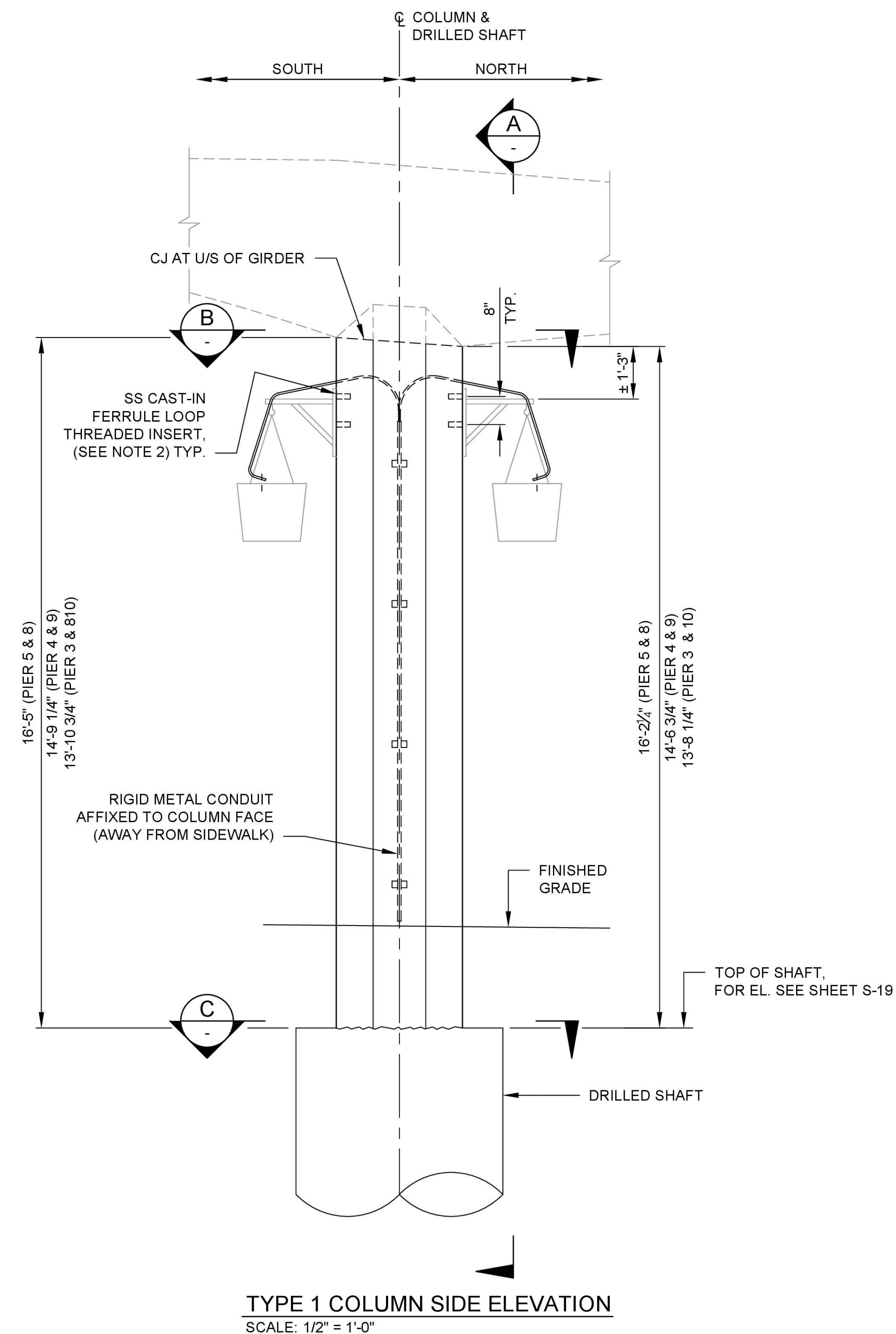
**STRUCTURAL
DESIGN**

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ABUTMENT 1
REINFORCEMENT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S24	
PROJECT No:	
1262	
SHEET:	REV:
S-24	0



NOTES:

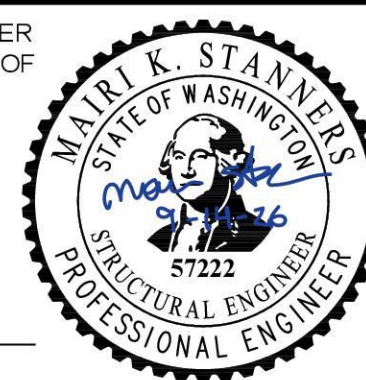
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. HANGING BASKET BRACKETS ARE TO BE APPROVED BY THE CITY. THREADED INSERTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THREADED INSERTS SHALL BE COMPATIBLE WITH ASTM A325 ¾" DIA. BOLTS WITH MINIMUM THREAD LENGTH OF 2".
3. FOR COLUMN LOCATIONS SEE SHEET S-19.



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STRUCTURAL DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



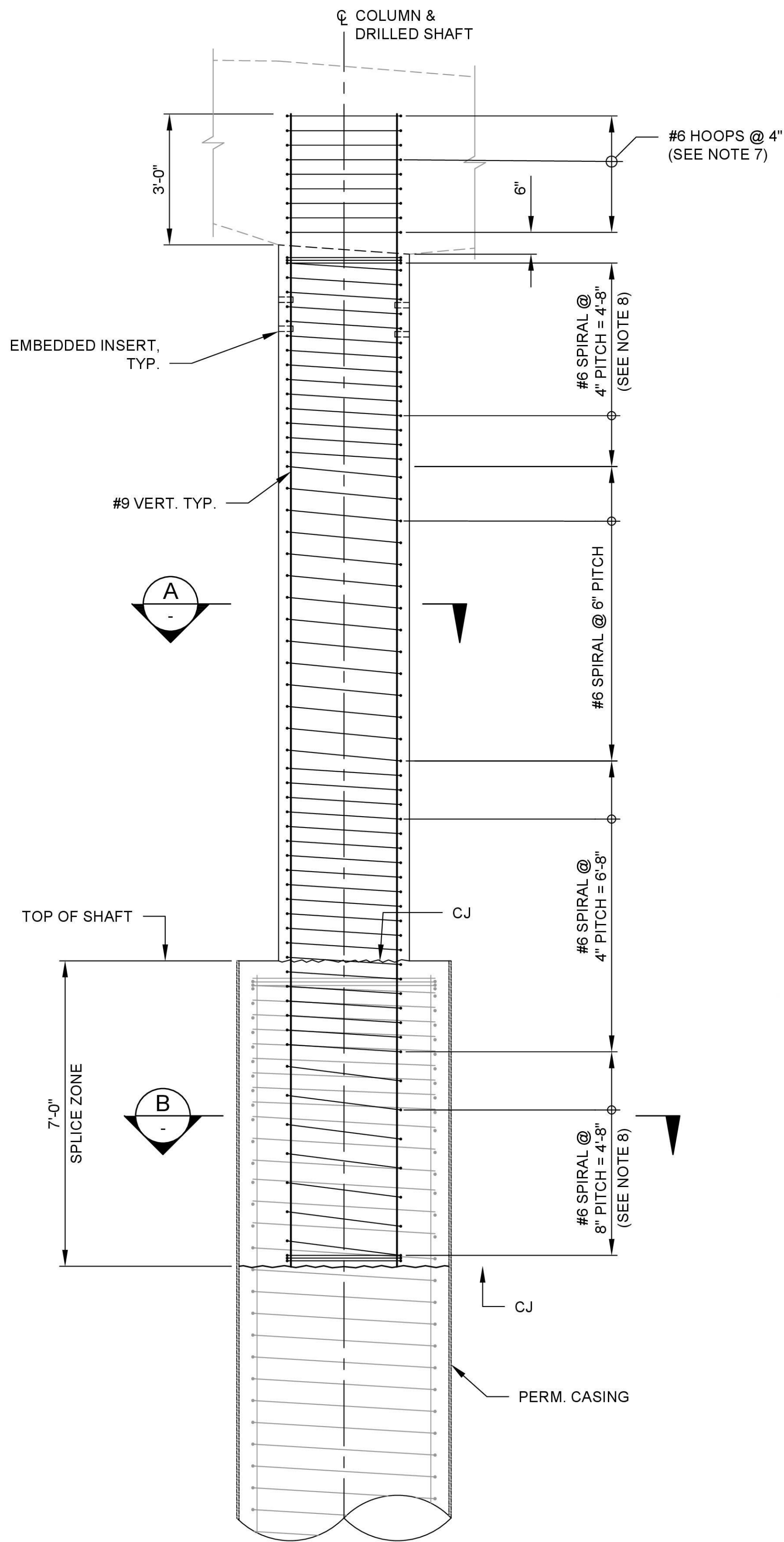
CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

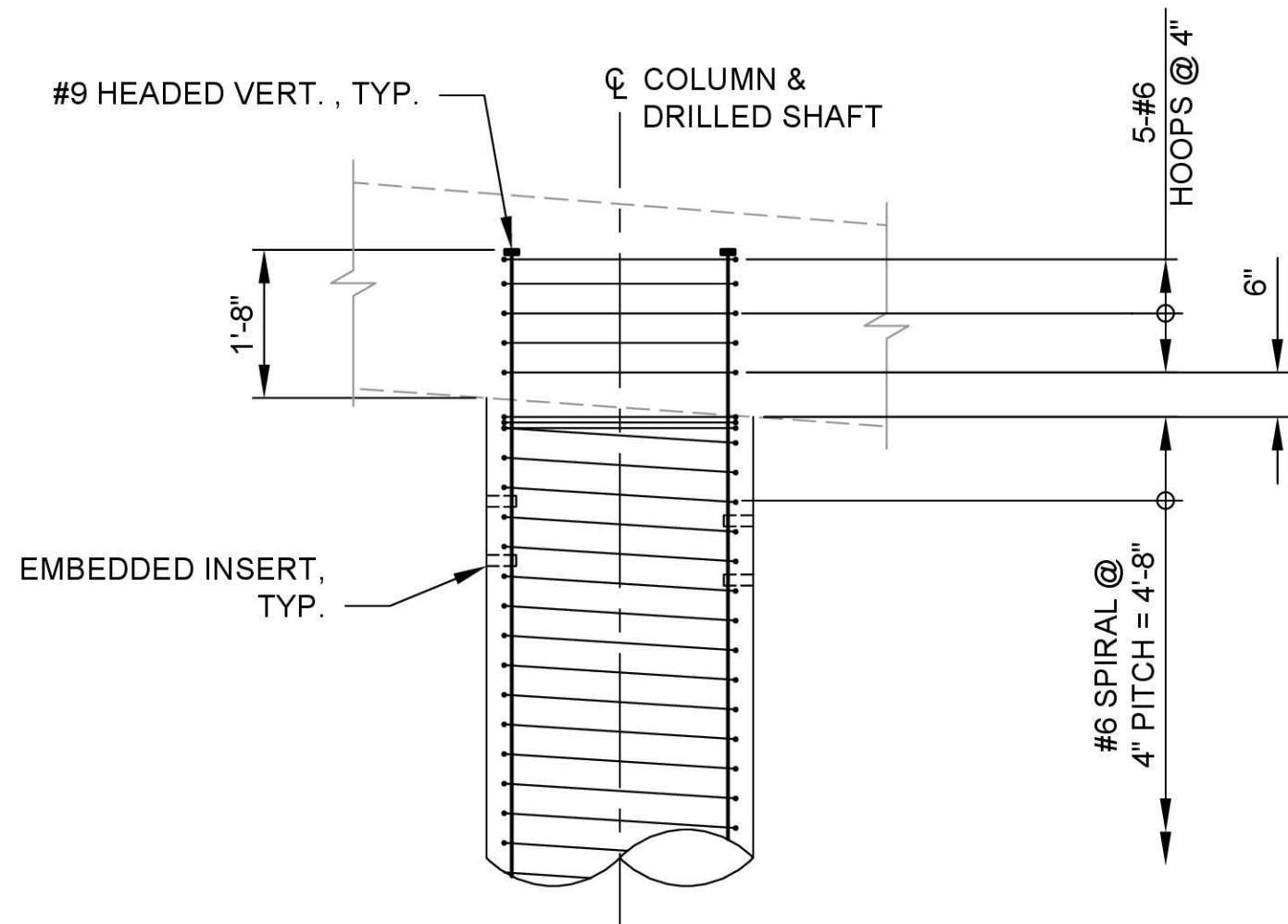
COLUMN TYPE 1

LAYOUT AND DETAILS

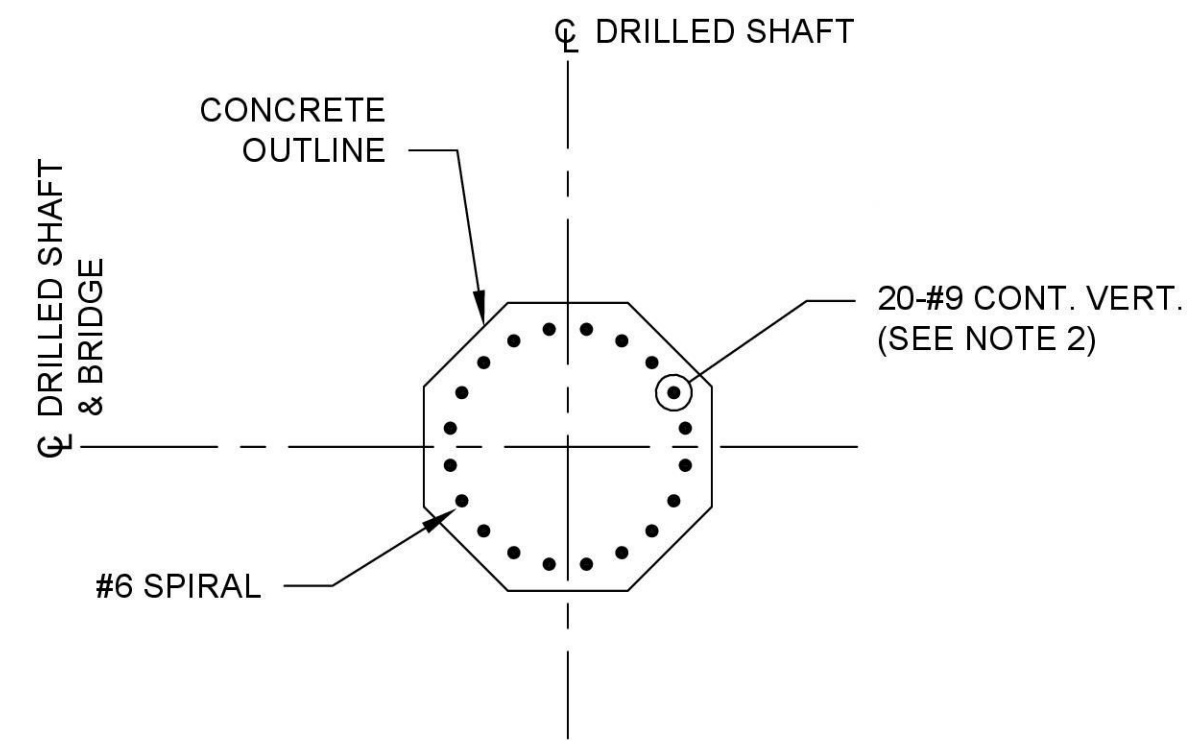
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S25	
PROJECT No: 1262	
SHEET: S-25	REV: 0



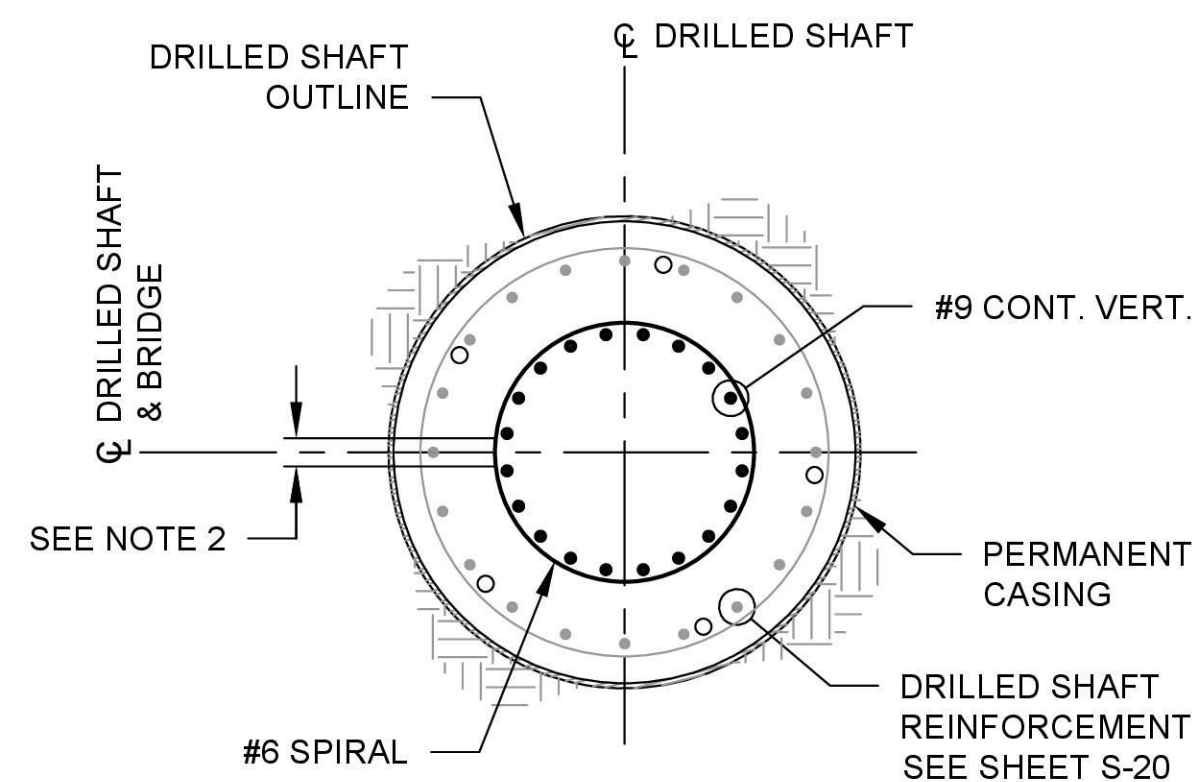
TYPE 1 COLUMN ELEVATION
SCALE: 1/2" = 1'-0"



TOP OF COLUMN ELEVATION AT PIER 3 & 10
SCALE: 1/2" = 1'-0"



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



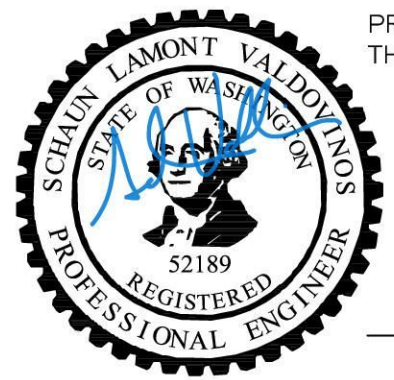
SECTION B
SCALE: 1/2" = 1'-0"

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- COLUMN REINFORCING CAGE SHALL BE INSTALLED SQUARE TO THE BRIDGE ALIGNMENT (NO VERT. BARS LOCATED ALONG CENTERLINE OF BRIDGE) TO ENSURE THE GIRDER REBAR CAN THREAD THROUGH.
- PRIOR TO CASTING CONNECTION TO COLUMN REINFORCEMENT, CONTRACTOR SHALL REMOVE LAITANCE DOWN TO SOUND CONCRETE AT THE CONSTRUCTION JOINT AND SHALL CLEAN EXPOSED REINFORCEMENT.
- LAP SPLICES SHALL NOT BE PERMITTED FOR LONGITUDINAL REINFORCEMENT.
- 2" CONCRETE COVER IS TO THE VERTICAL BARS.
- AS-BUILT LOCATIONS AND ELEVATIONS OF SHAFTS SHALL BE SENT TO ENGINEER OF RECORD (EOR) PRIOR TO PROCEEDING WITH COLUMN CONSTRUCTION.
- HOOPS SHALL BE SPLICED WITH EITHER A RESISTANCE BUTT WELD OR A DIRECT BUTT WELD. FOR BUTT JOINT DETAILS SEE SHEET S-30.
- FOR SPIRAL TERMINATION SEE DETAIL ON SHEET S-20.

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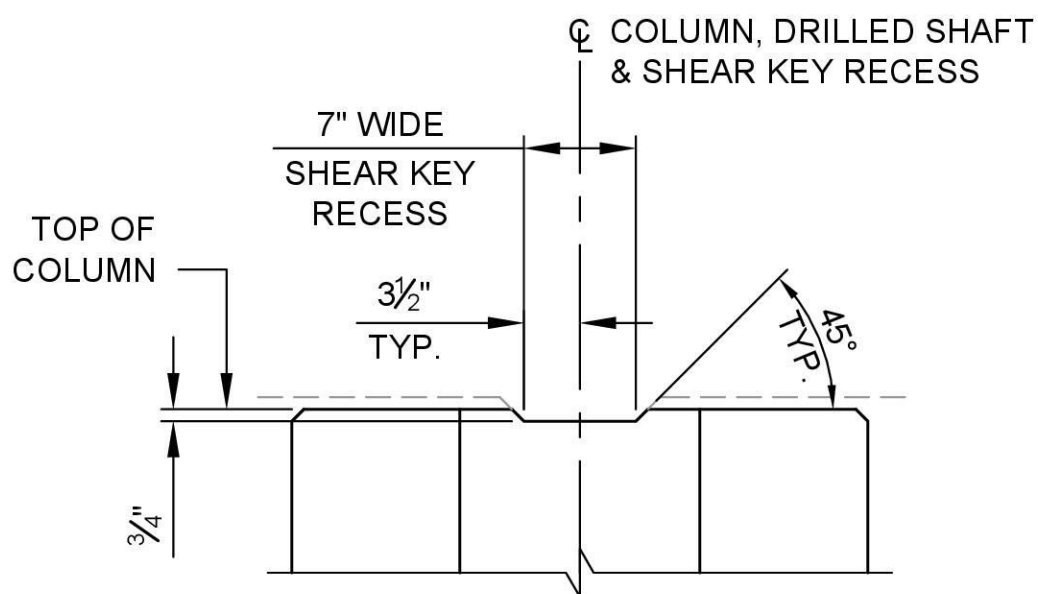
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: GARY LEE DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

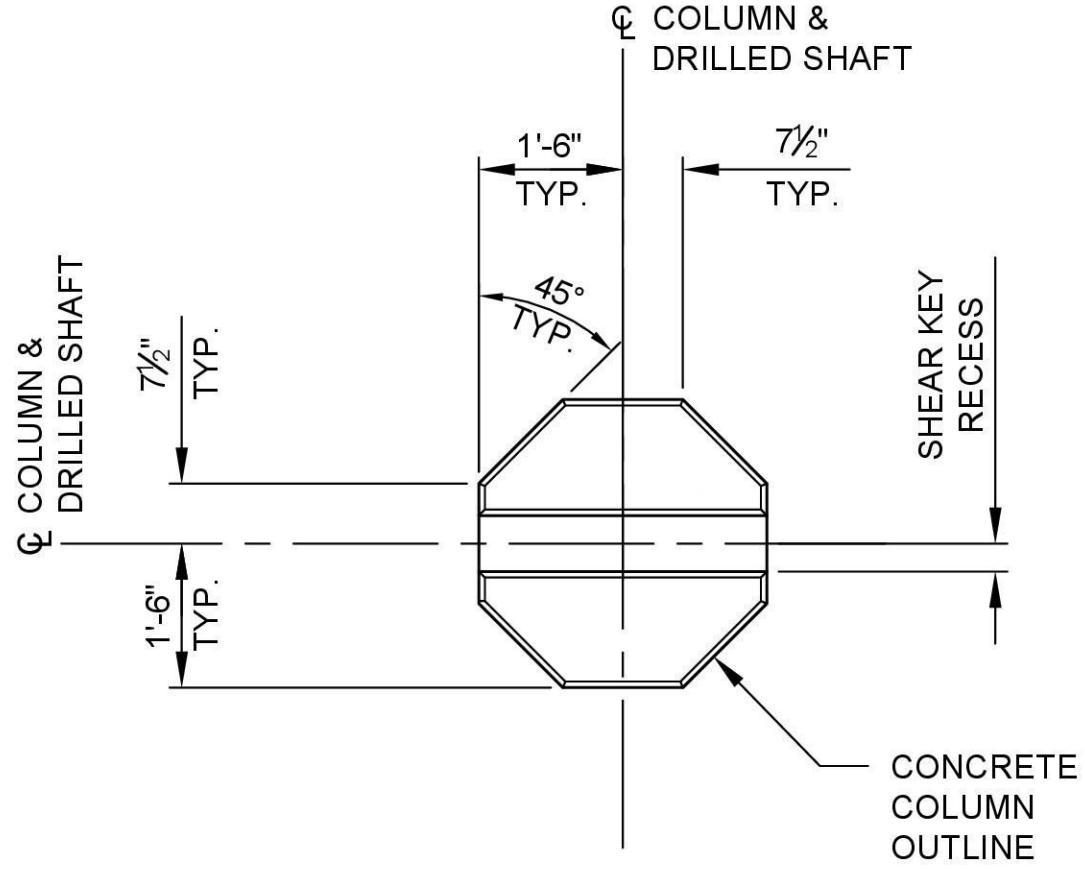


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
COLUMN TYPE 1
REINFORCEMENT

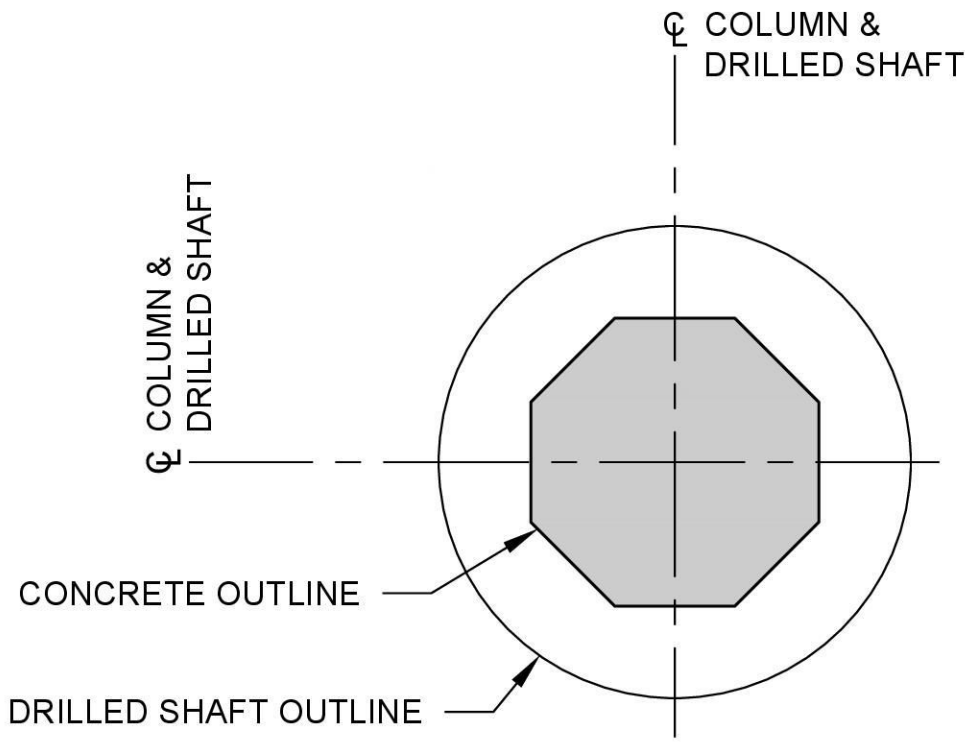
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S26	
PROJECT No: 1262	
SHEET: S-26	REV: 0



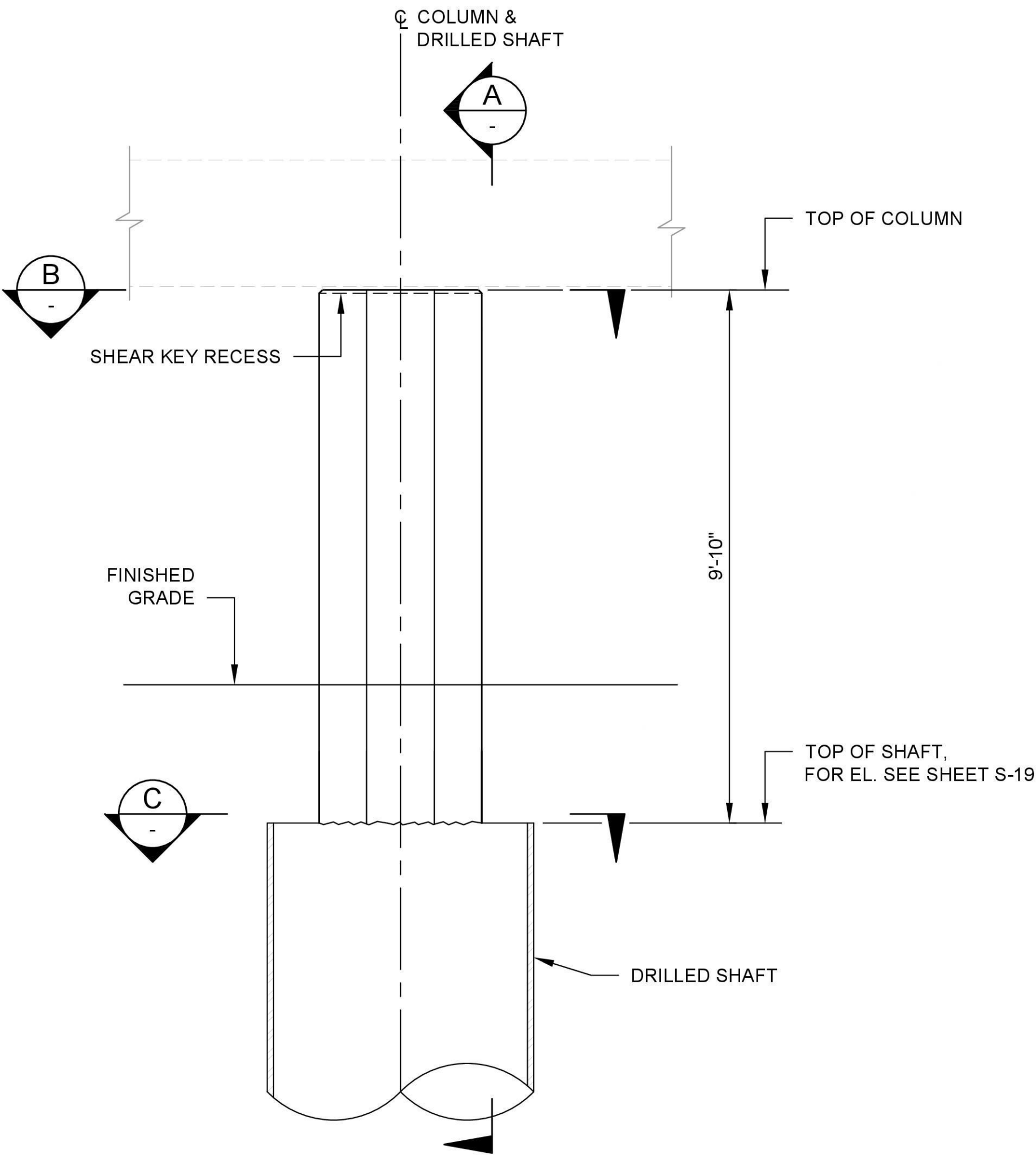
SHEAR KEY RECESS DETAIL 1
SCALE: 1" = 1'-0"



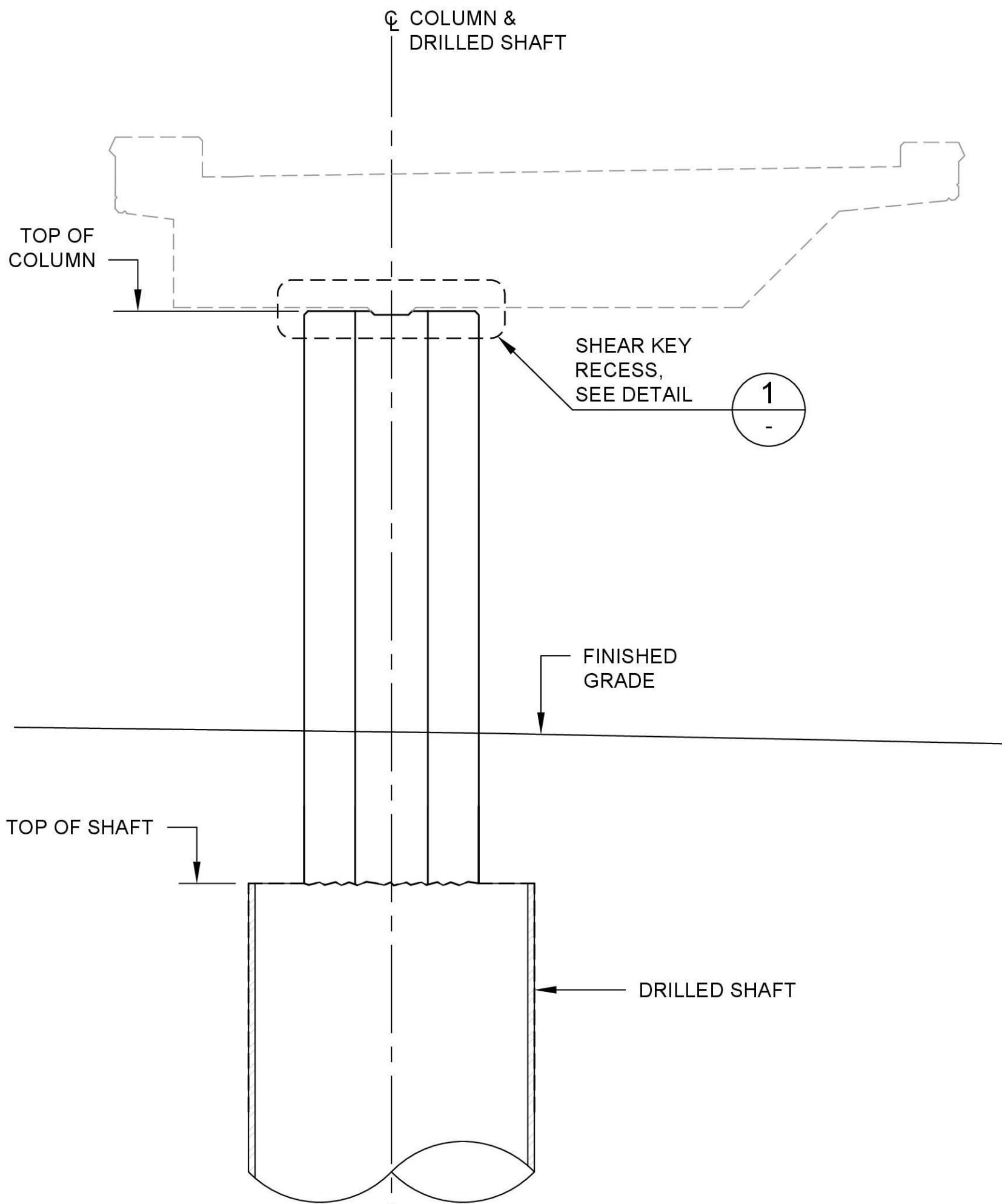
SECTION B
SCALE: 1/2" = 1'-0"



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



TYPE 2 COLUMN SIDE ELEVATION (LOOKING NORTH)
SCALE: 1/2" = 1'-0"



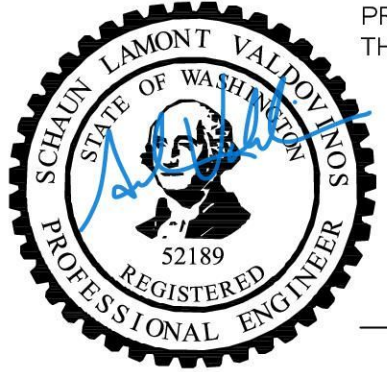
SECTION A
SCALE: 1/2" = 1'-0"

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- FOR COLUMN LOCATIONS SEE SHEET S-19.

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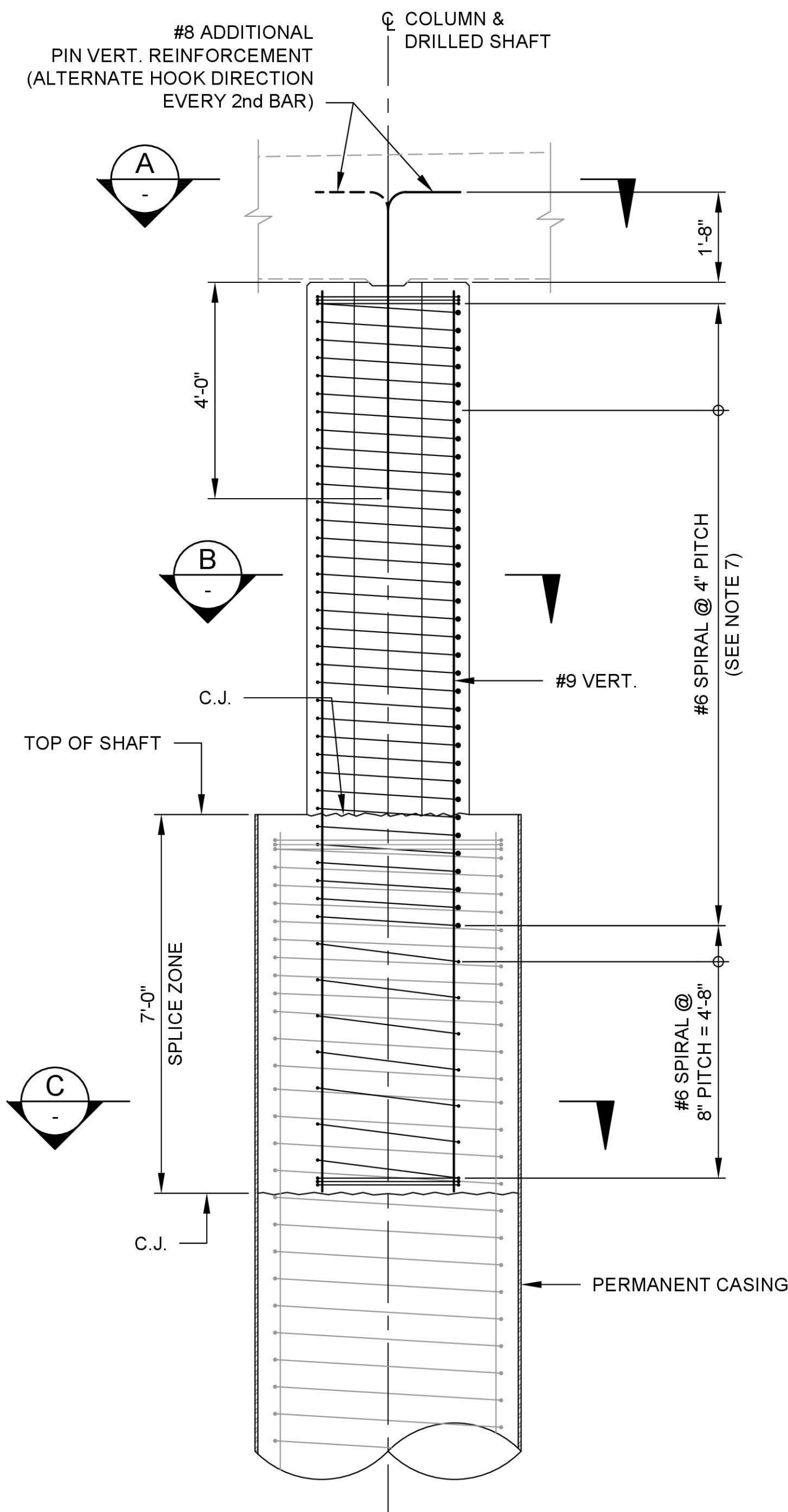
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: MICHAEL CHUI DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

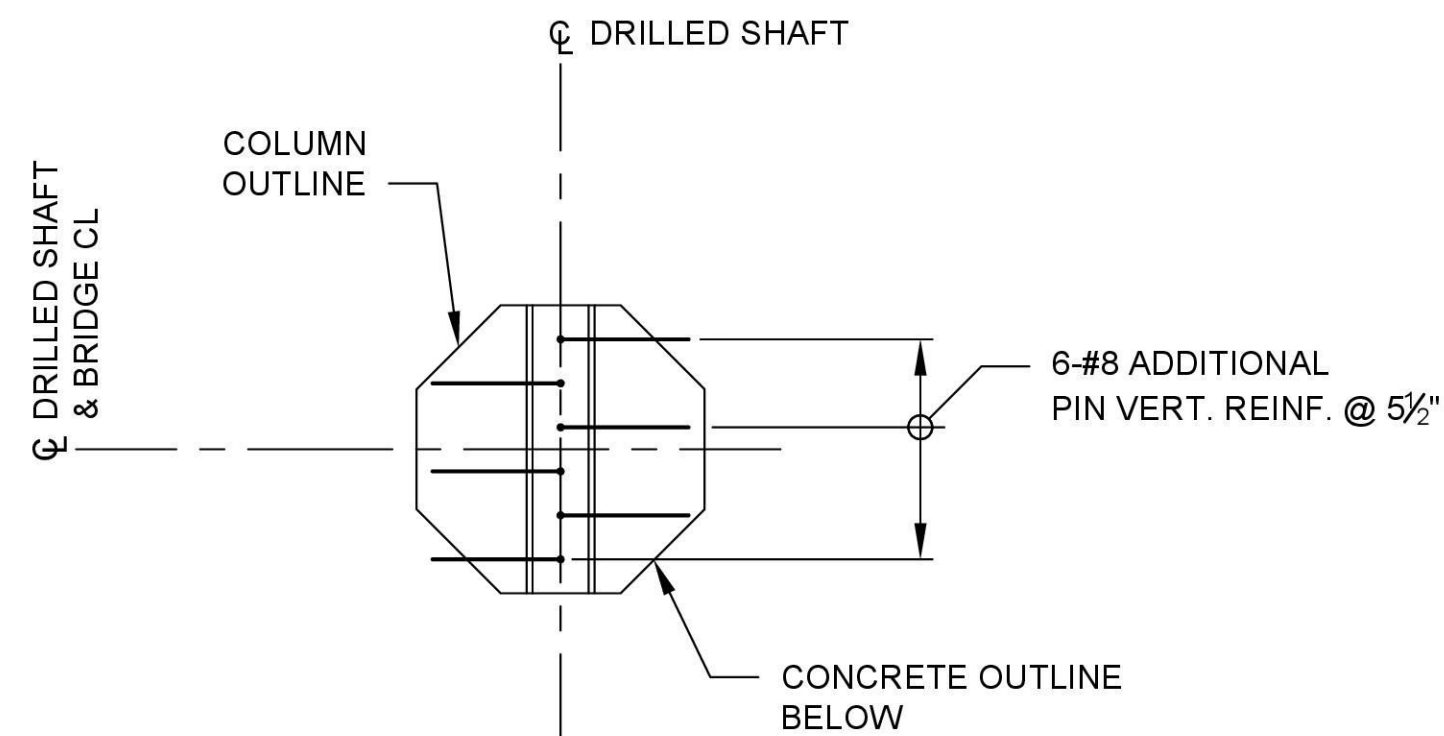


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
COLUMN TYPE 2
LAYOUT AND DETAILS

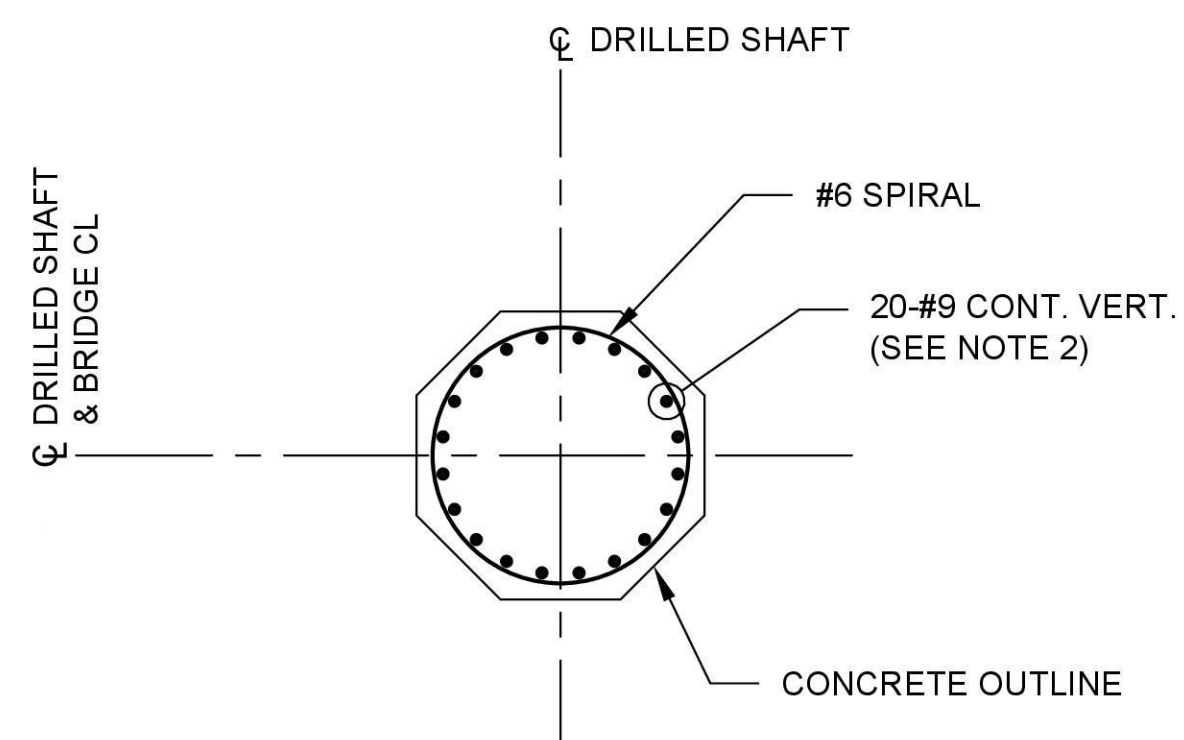
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S27	
PROJECT No: 1262	
SHEET: S-27	REV: 0



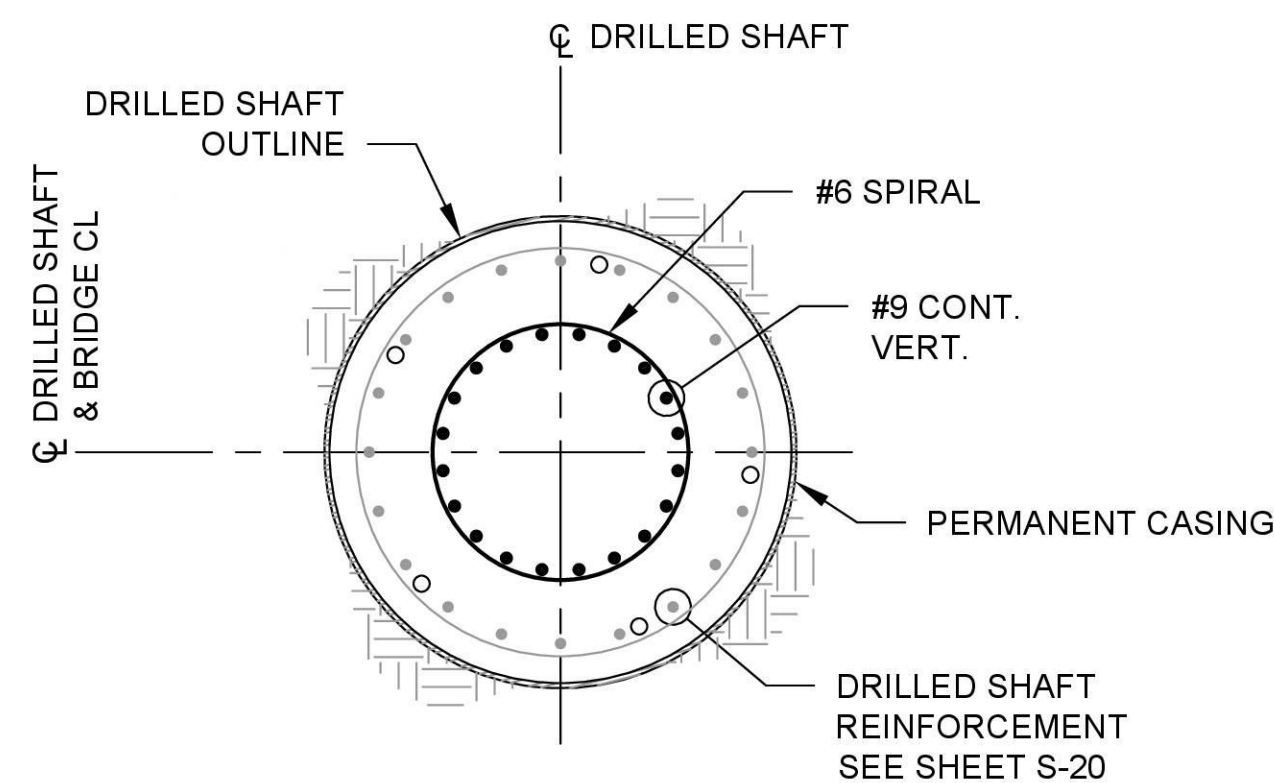
TYPE 2 COLUMN ELEVATION (LOOKING WEST)
SCALE: 1/2" = 1'-0"



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



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



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

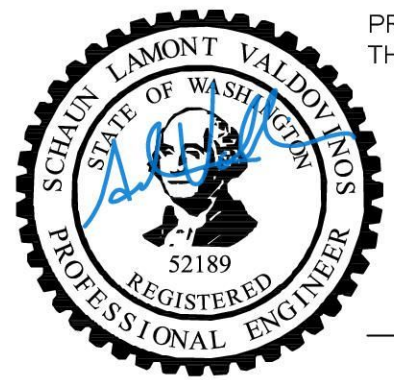
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE DWG. S-03 & S-04.
- COLUMN REINFORCING CAGE SHALL BE INSTALLED SQUARE TO THE BRIDGE ALIGNMENT TO ENSURE THE GIRDER REBAR CAN THREAD THROUGH.
- PRIOR TO CASTING CONNECTION TO COLUMN REINFORCEMENT, CONTRACTOR SHALL REMOVE LAITANCE DOWN TO SOUND CONCRETE AT THE CONSTRUCTION JOINT AND SHALL CLEAN EXPOSED REINFORCEMENT.
- LAP SPLICES SHALL NOT BE PERMITTED FOR LONGITUDINAL REINFORCEMENT.
- 2" CONCRETE COVER IS TO THE LONGITUDINAL BARS.
- AS-BUILT LOCATIONS AND ELEVATIONS OF SHAFTS SHALL BE SENT TO ENGINEER OF RECORD (EOR) PRIOR TO PROCEEDING WITH COLUMN CONSTRUCTION.
- FOR SPIRAL TERMINATION DETAILS, SEE SHEET S-20.

SHEET 28 OF 108

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REV	DATE	DESCRIPTION	BY
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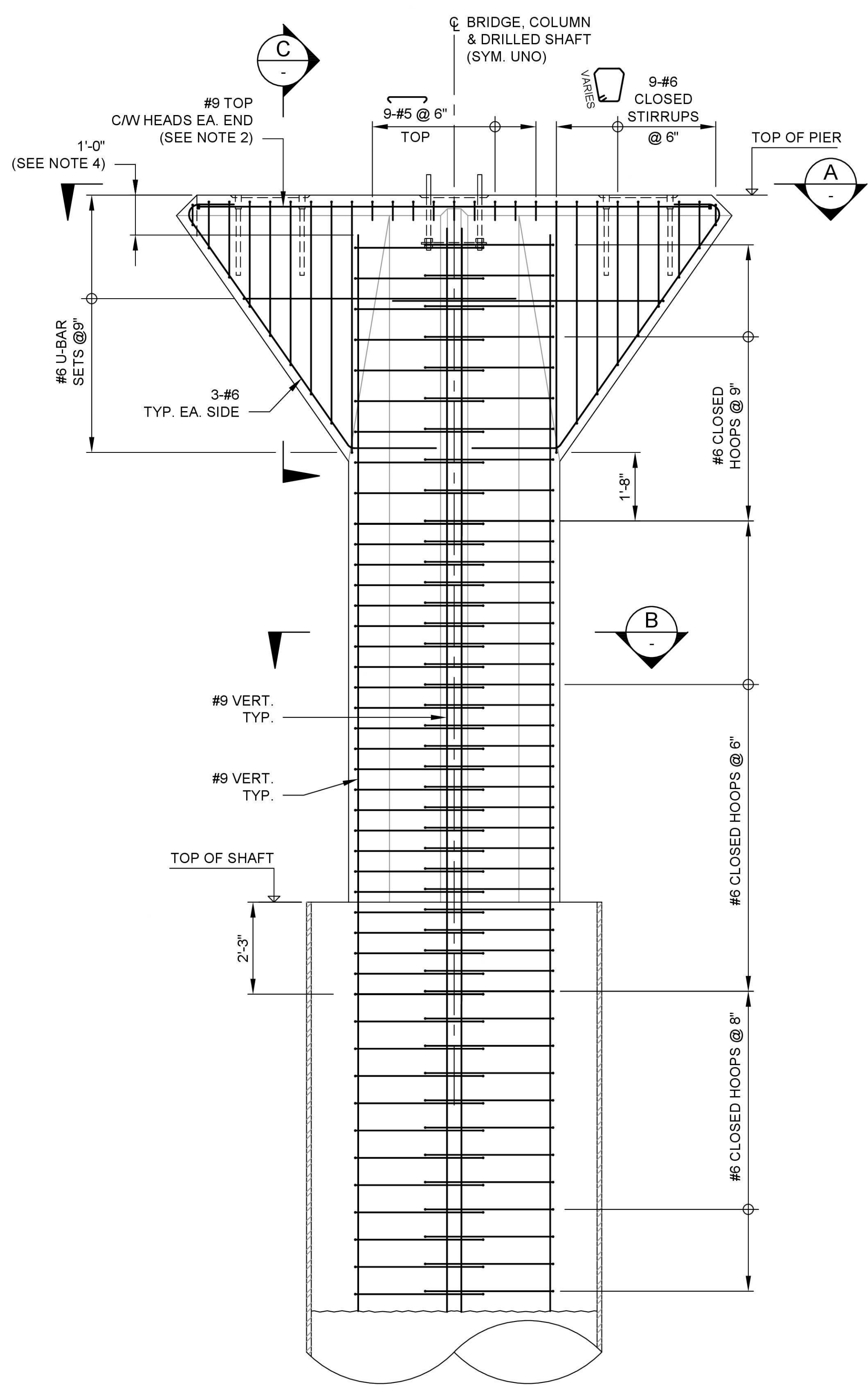
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: GARY LEE DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

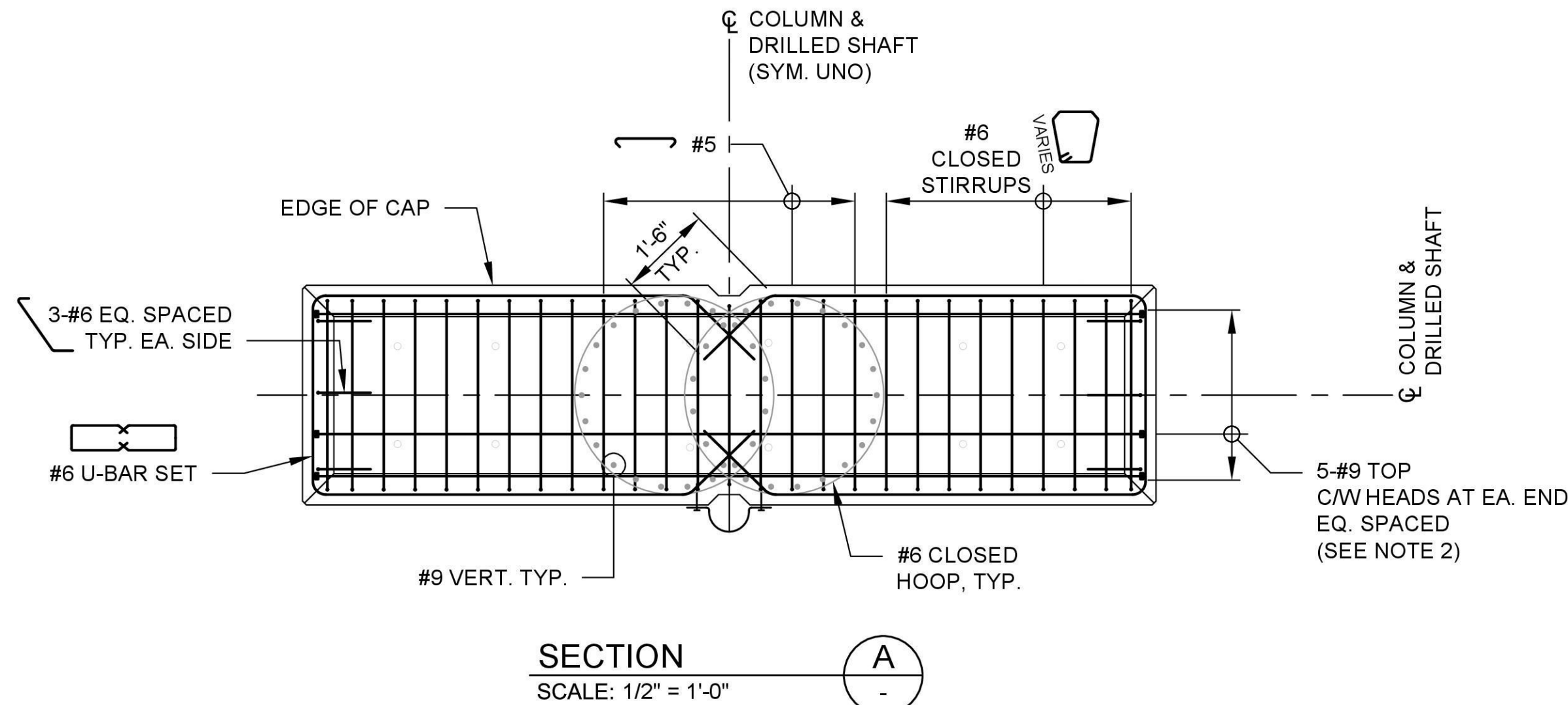


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
COLUMN TYPE 2
REINFORCEMENT

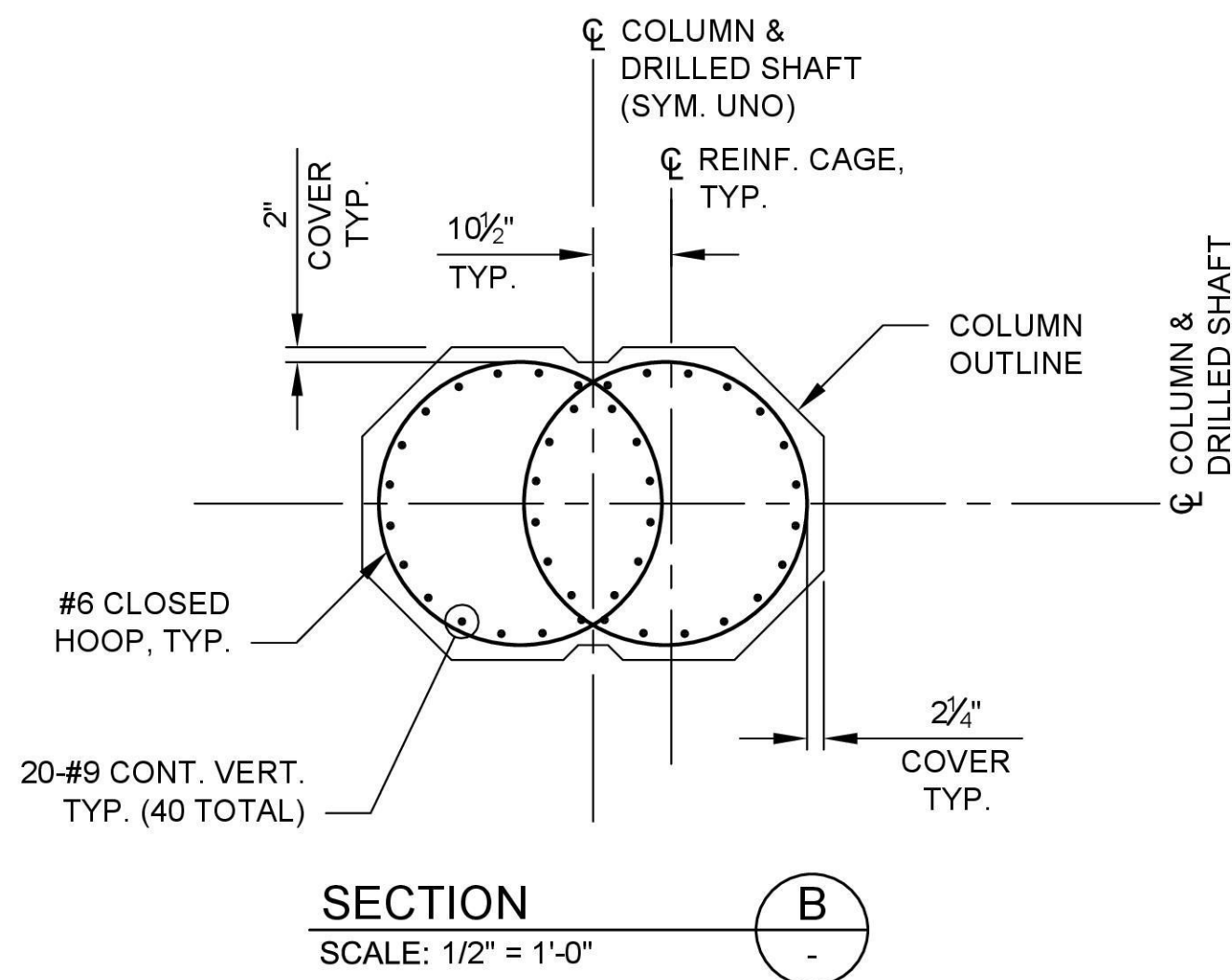
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S28	
PROJECT No: 1262	
SHEET: S-28	REV: 0



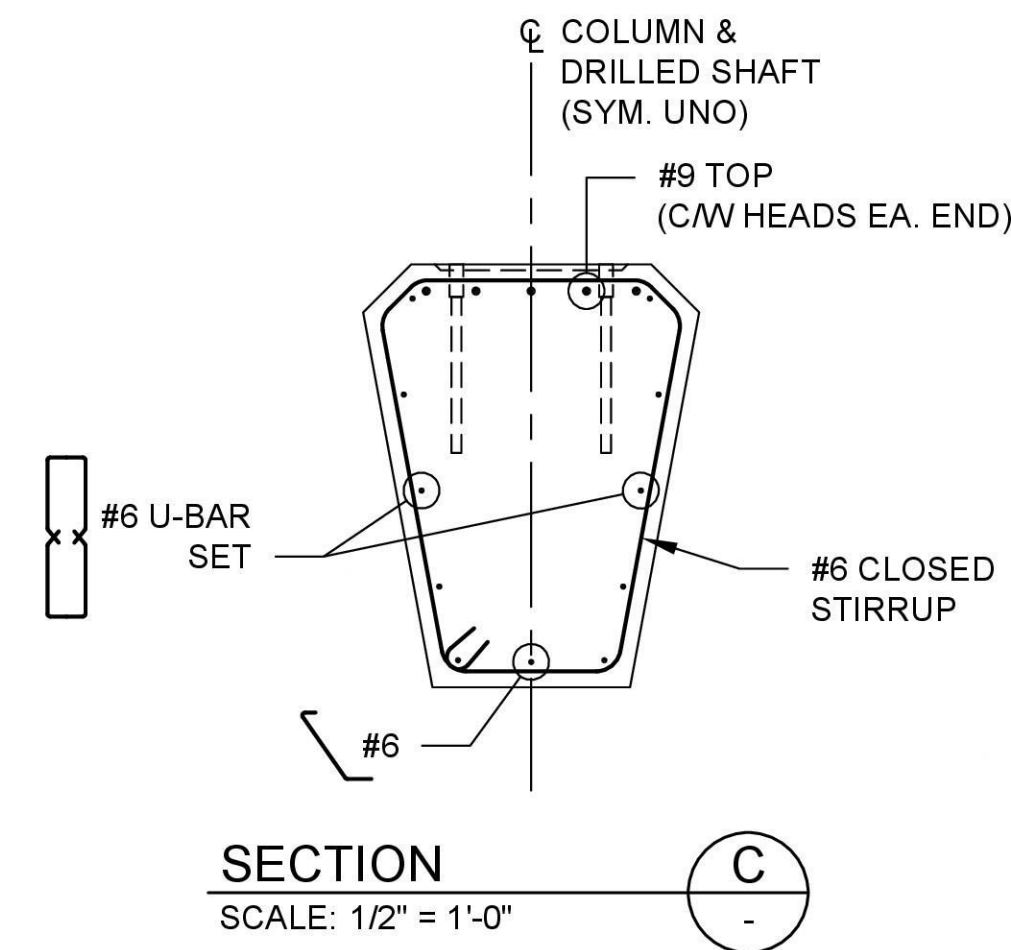
TYPE 3 COLUMN ELEVATION
SCALE: 1/2" = 1'-0"



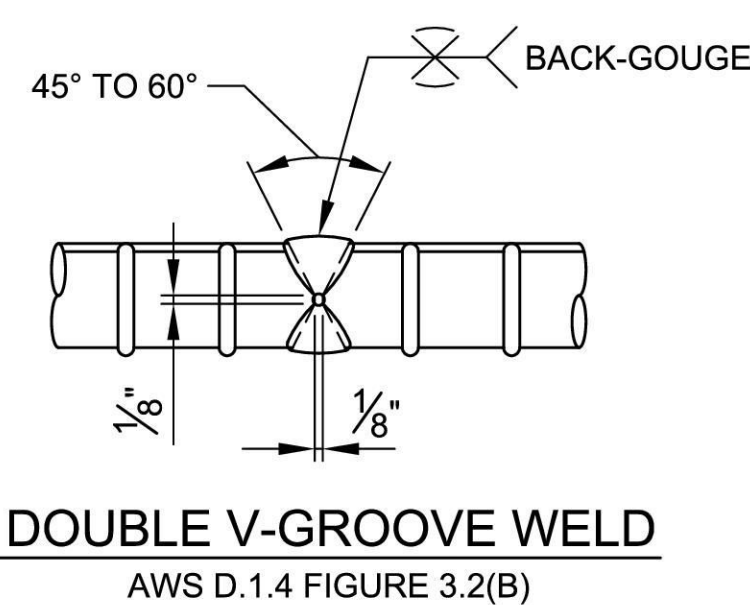
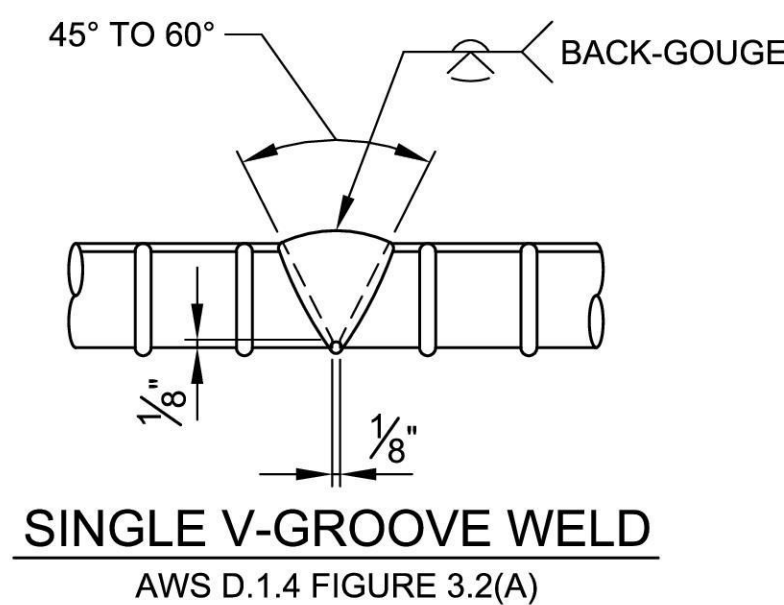
SECTION A-A
SCALE: 1/2" = 1'-0"



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

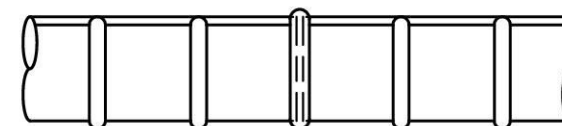


SECTION C-C
SCALE: 1/2" = 1'-0"



MANUAL DIRECT BUTT JOINT DETAILS

N.T.S.
SEE WSDOT STANDARD SPECIFICATIONS
FOR APPROVAL AND TESTING REQUIREMENTS



RESISTANCE BUTT JOINT DETAIL

N.T.S.
SEE WSDOT STANDARD SPECIFICATIONS
FOR APPROVAL AND TESTING REQUIREMENTS

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- HEADED REBAR MUST USE TERMINATORS LISTED IN THE WSDOT QUALIFIED PRODUCT LIST.
- VERT. COLUMN STEEL SHALL BE ORIENTED AS SHOWN IN SECTION VIEWS AND NOT ROTATED RELATIVE.
- VERT. COLUMN STEEL SHALL BE $\pm 6"$ FROM DESIGN DIMENSION.
- HOOPS SHALL BE SPICED WITH EITHER A RESISTANCE BUTT WELD OR A DIRECT BUTT WELD. STAGGER HOOP SPICES AROUND THE COLUMN PERIMETER SO THAT SPICES ON ADJACENT HOOPS ARE A MINIMUM OF 2'-0" APART.

SHEET 30 OF 108

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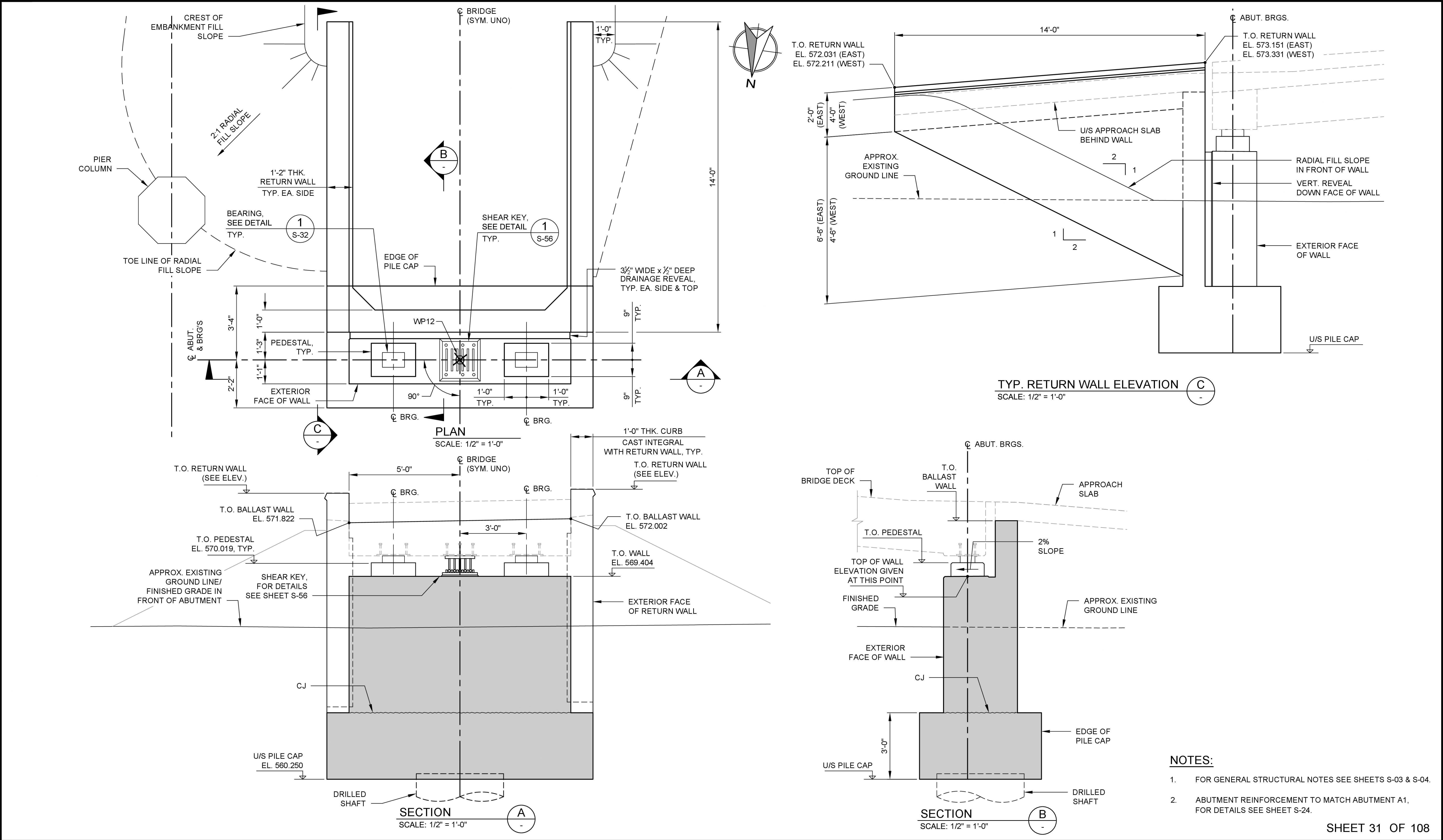
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
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CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
COLUMN TYPE 3
REINFORCEMENT

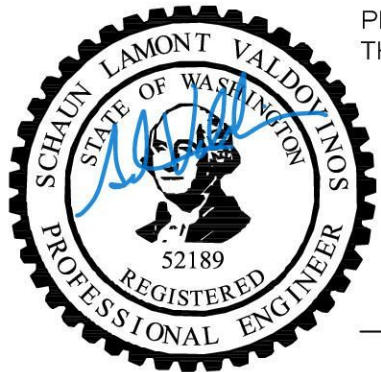
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S30	
PROJECT No: 1262	
SHEET: S-30	REV: 0



- NOTES:**
- 1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - 2. ABUTMENT REINFORCEMENT TO MATCH ABUTMENT A1, FOR DETAILS SEE SHEET S-24.

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DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ABUTMENT 12
LAYOUT AND DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S31	
PROJECT No: 1262	
SHEET: S-31	REV: 0

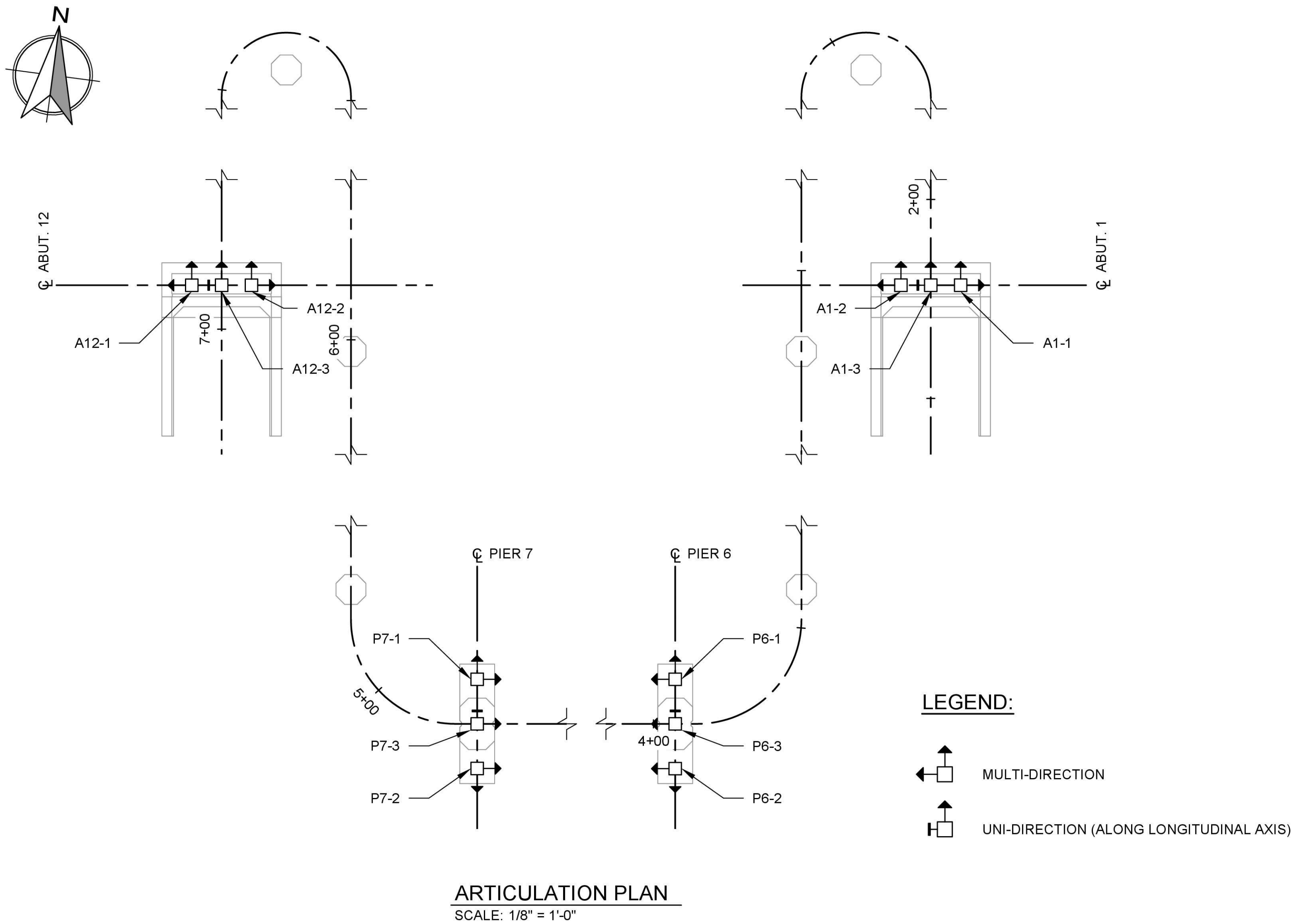
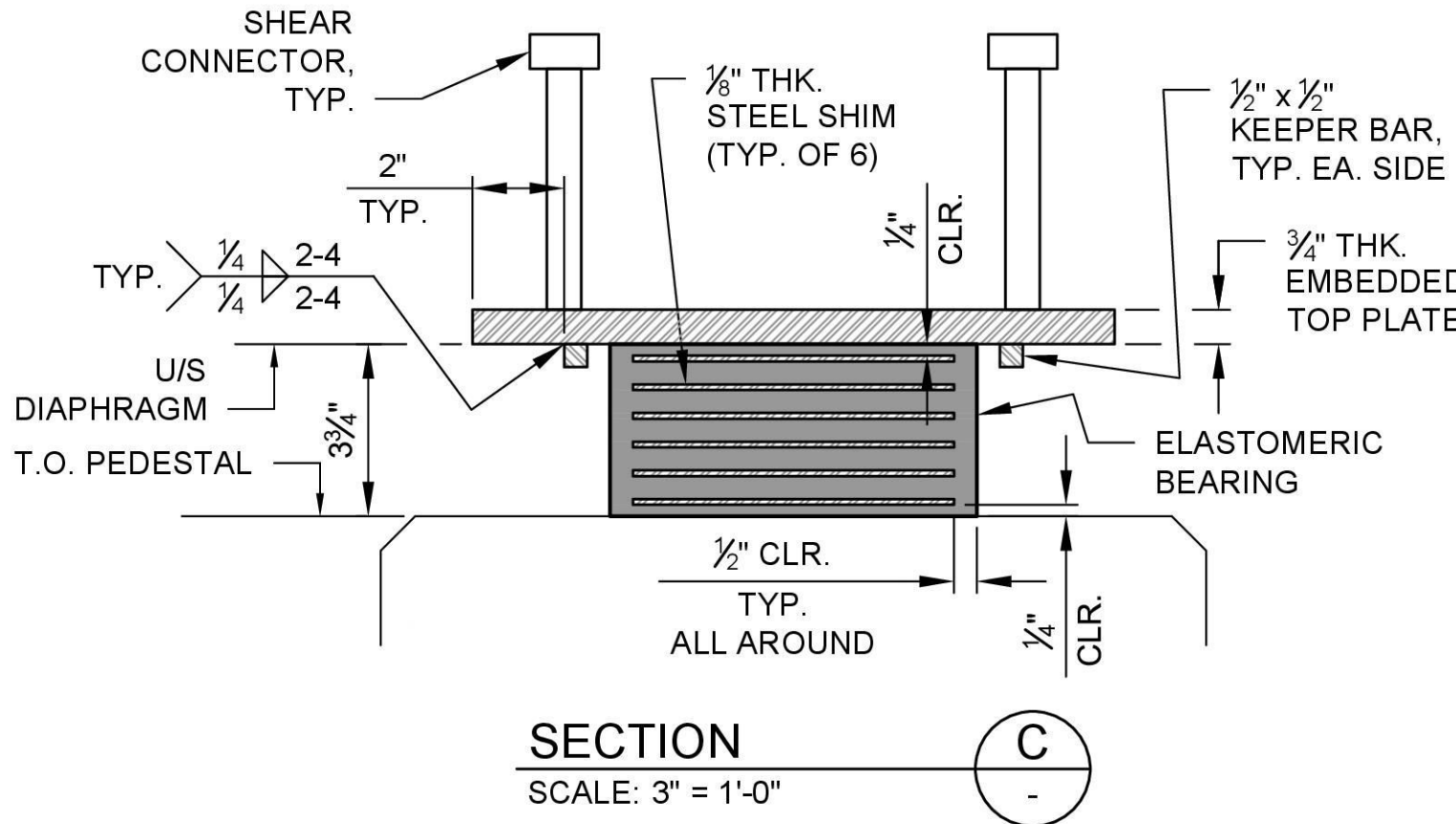
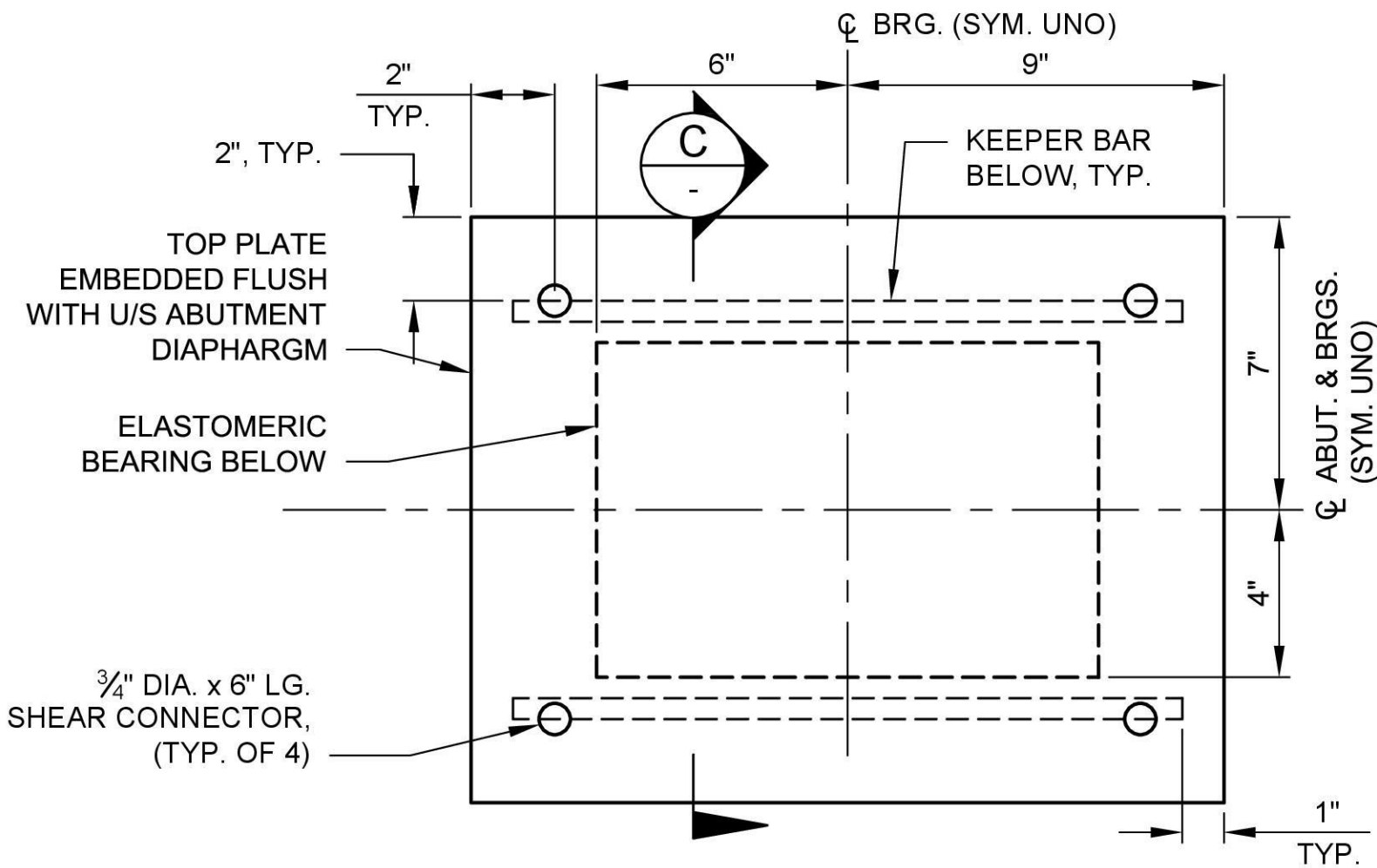


TABLE 32-3 - ARTICULATION

LOCATION	LOCATION NO.	FIXITY
ABUT. A1	A1-1	
	A1-2	
	A1-3	
PIER 6	P6-1	
	P6-2	
	P6-3	
PIER 7	P7-1	
	P7-2	
	P7-3	
ABUT. A12	A12-1	
	A12-2	
	A12-3	



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- LRB = LEAD CORE RUBBER BEARING.
- ALL DIMENSIONS AND DETAILS SHOWN ON THIS DWG. SHALL BE CONFIRMED BY THE BEARING SUPPLIER.
- FUTURE BEARING REPLACEMENT PROCEDURE:
 - DESIGN AND DETAILS OF JACKING PROCESS FOR BEARING REPLACEMENT SHALL BE REVIEWED AND APPROVED BY A STRUCTURAL ENGINEER LICENSED IN WASHINGTON STATE.
 - BRIDGE SHALL BE CLOSED TO TRAFFIC DURING ALL STAGES OF JACKING AND BEARING REPLACEMENT. IF POSSIBLE, JACKING SHALL OCCUR NEAR THE NOMINAL CONSTRUCTION TEMPERATURE TO MINIMIZE RESTRAINT.
 - JACKS SHALL BE LOCATED AS SHOWN ON PIER AND ABUTMENT DRAWINGS. A LOAD DISTRIBUTION PLATE SHALL BE USED TO LIMIT BEARING STRESS ON CONCRETE TO 4 KSI.
 - EACH BEARING ASSEMBLY SHALL BE REPLACEABLE WITHOUT DAMAGE TO THE STRUCTURE AND WITHOUT LIFTING THE STRUCTURE MORE THAN 1/4", UNLESS APPROVED BY A STRUCTURAL ENGINEER LICENSED IN WASHINGTON STATE.
 - FOR EACH BEARING REPLACEMENT LOCATION, ALL JACKS SHALL BE LOADED SIMULTANEOUSLY TO ENSURE THAT MAXIMUM DIFFERENTIAL JACKING HEIGHT IS LESS THAN 1/8".

SHEET 32 OF 108

TABLE 32-1 - LEAD CORE RUBBER BEARING LOADS + MOVEMENTS																	
LOCATION		VERTICAL LOADS (KIP)				TRANSVERSE LOADS (KIP)			LONGITUDINAL LOADS (KIP)			LONGIT. DISPLACEMENT (IN) (d)			ROTATION (RAD) (e)		
		DL	SERVICE	STRENGTH (MAX)	STRENGTH (MIN)	SERVICE	STRENGTH	EXTREME	SERVICE	STRENGTH	EXTREME	SERVICE	STRENGTH	EXTREME	SERVICE	STRENGTH	EXTREME
PIER 6	P6-1	65	90	120	15	5	10	60	5	8	55	0.55	0.55	4.7	0.001	0.006	0.005
PIER 6	P6-2	65	90	120	15	5	10	60	5	8	55	0.55	0.55	4.7	0.001	0.006	0.005
PIER 7	P7-1	65	90	120	15	5	10	60	5	8	55	0.55	0.55	4.7	0.001	0.006	0.005
PIER 7	P7-2	65	90	120	15	5	10	60	5	8	55	0.55	0.55	4.7	0.001	0.006	0.005

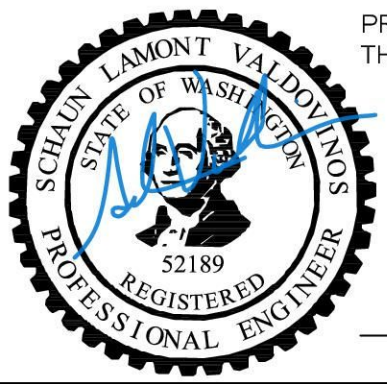
- TRANSVERSE LOADS ARE RESISTED BY TADAS SHEAR KEYS AT PIERS.
- LOADS ARE BASED ON FRICTIONAL RESISTANCE BETWEEN SLIDING SURFACES PRIOR TO FIRST SLIP. A FRICTION COEFFICIENT OF 0.2 IS ASSUMED.
- MOVEMENTS ARE BASED ON BEARING INSTALLATION TEMPERATURE OF 64°F. DISPLACEMENT VALUES ARE FOR EACH WAY (± VALUES SHOWN).
- ROTATION VALUES REPORTED ACCOUNT FOR LOADING-INDUCED ROTATIONS. ADDITIONAL TOLERANCES FOR UNCERTAINTIES, INSTALLATION, AND FABRICATION SHALL BE ADDED TO THE ABOVE.

TABLE 32-2
ELASTOMERIC BEARING LOADS

LOCATION	A1-1, A1-2, A12-1, A12-2
DEAD LOAD REACTION	38.0 KIPS
LIVE LOAD REACTION (W/O IMPACT)	19.0 KIPS
UNLOADED HEIGHT	3.75"
LOADED HEIGHT (DL)	3.68"
SHEAR MODULUS AT 73° F	165 PSI

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DATE



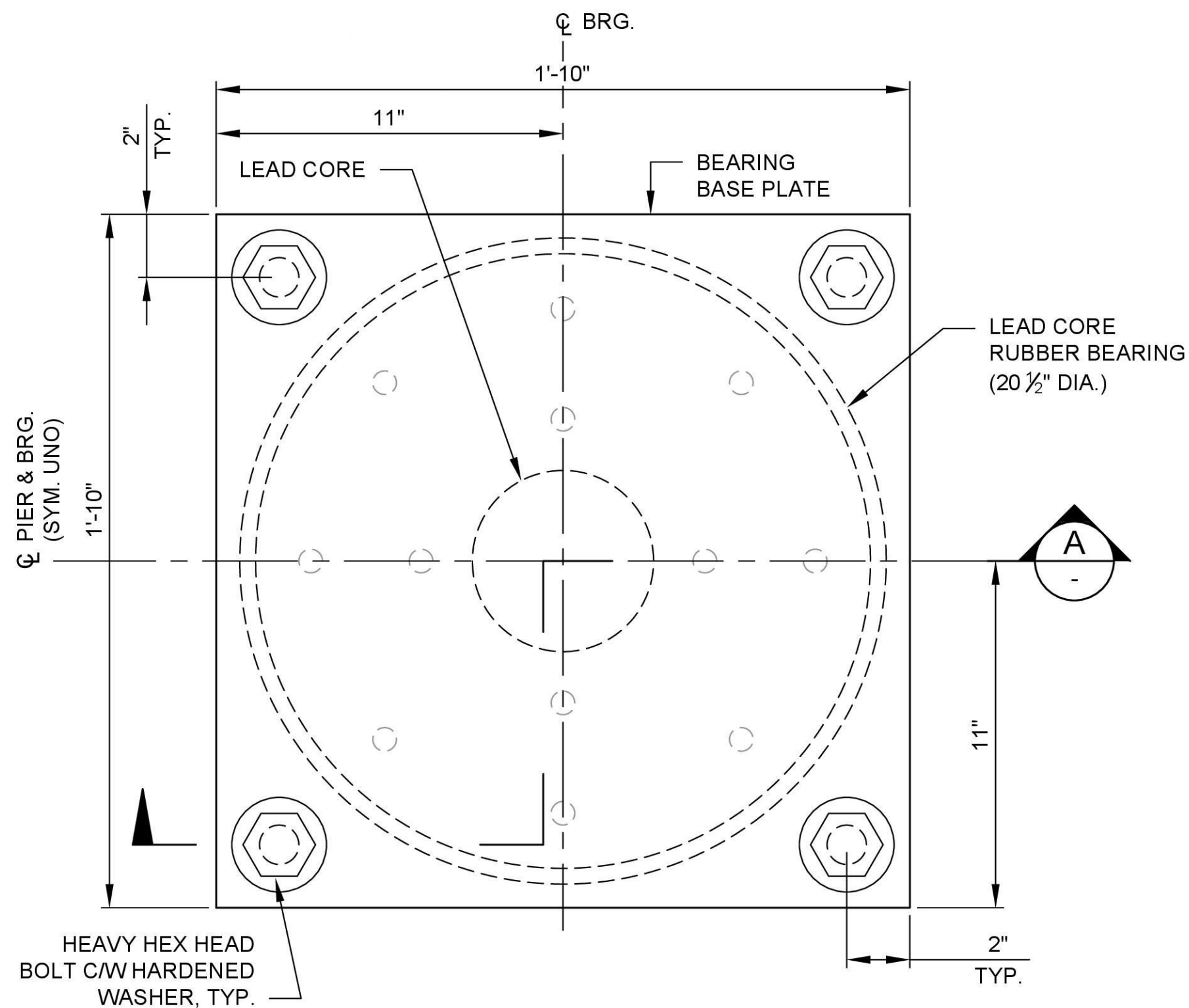
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

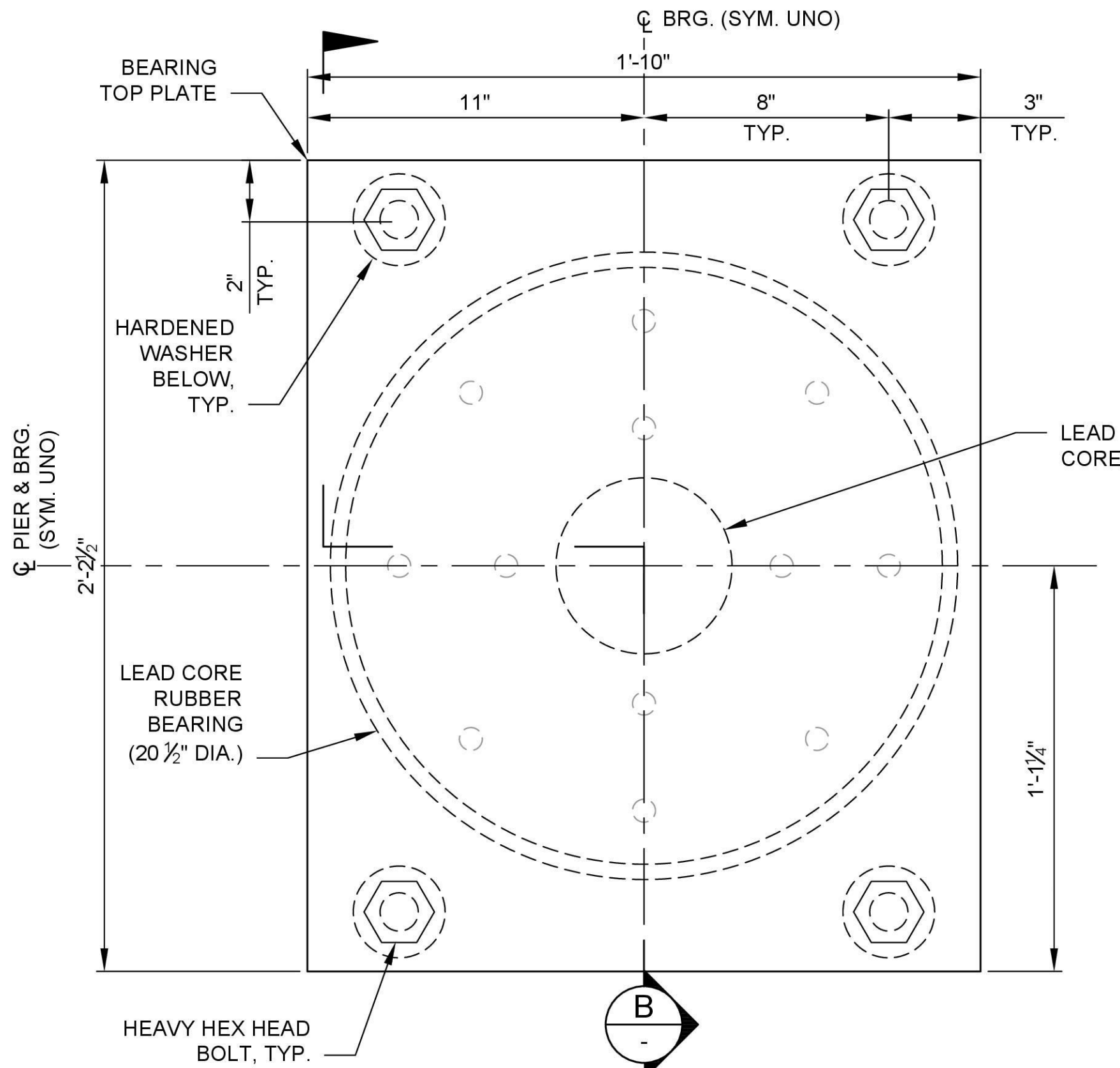


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
BEARING DETAILS
SHEET 1

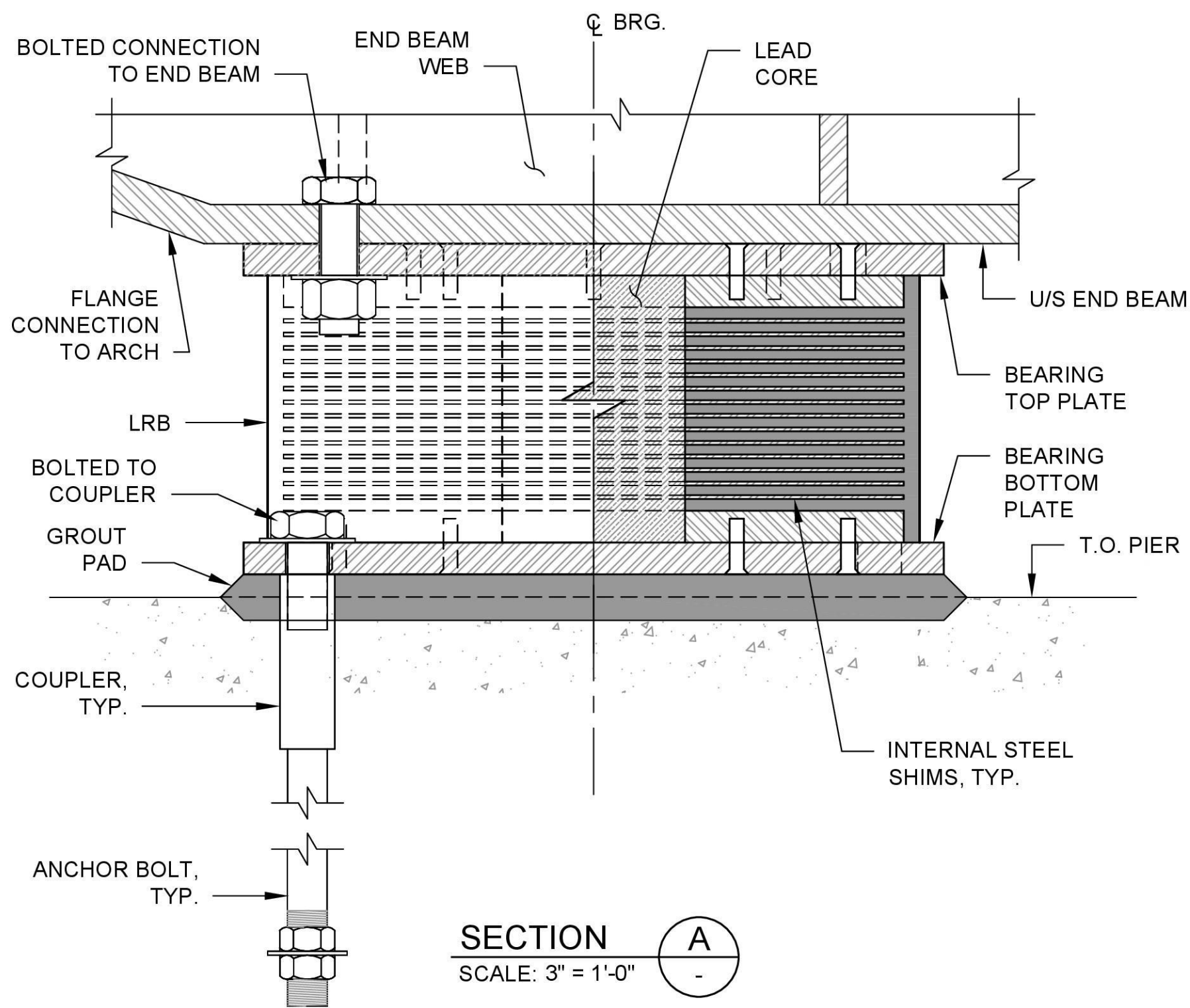
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FILENAME: 1262-DWG-S33	
PROJECT No: 1262	
SHEET: S-32	REV: 0



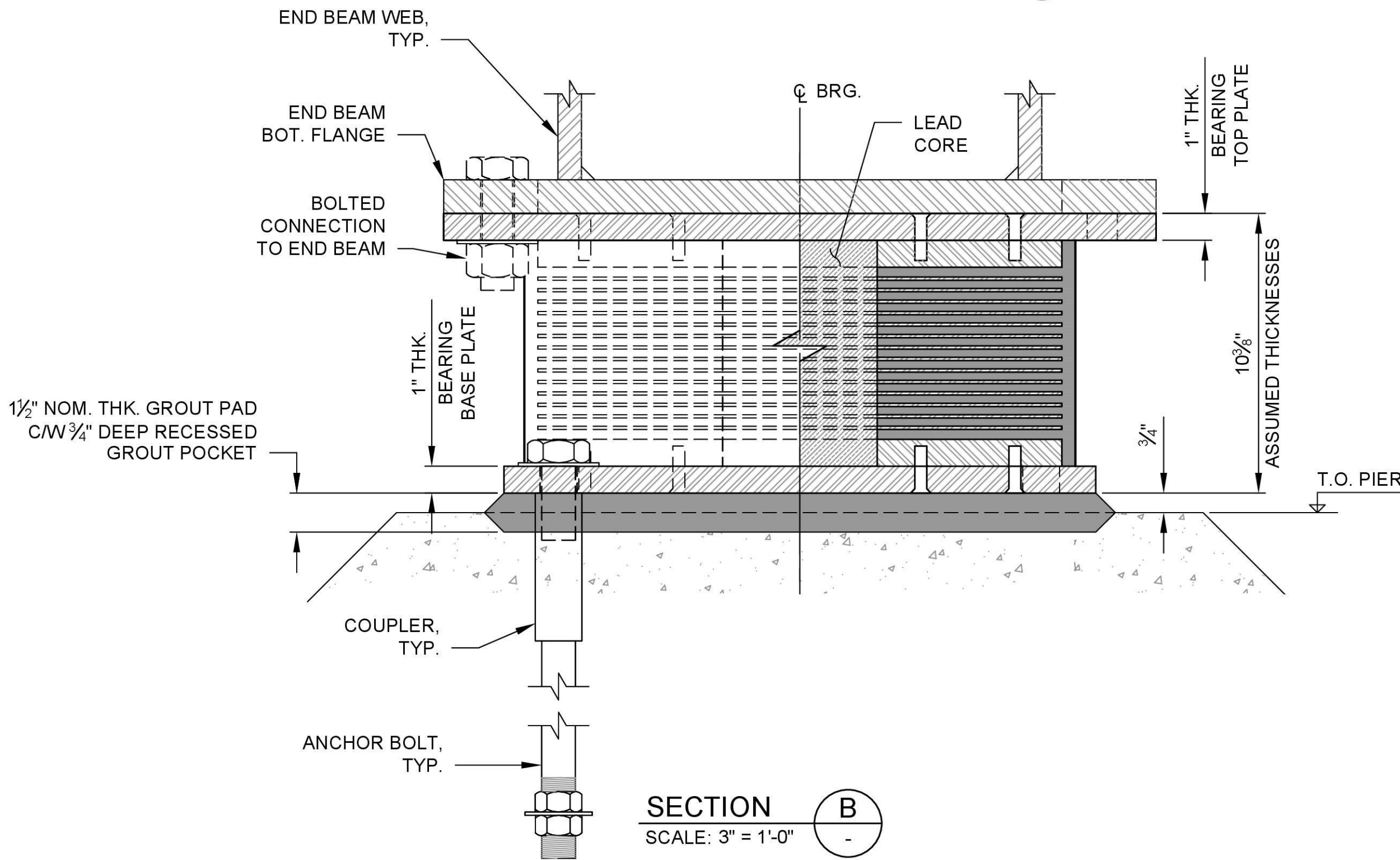
MAINSpan BEARING - BASE DETAIL (1)
SCALE: 3" = 1'-0"



MAINSpan BEARING - TOP DETAIL (2)
SCALE: 3" = 1'-0"



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



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

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- SEE DWG S-32 FOR GENERAL BEARING DETAIL NOTES.
- ALL DIMENSIONS AND DETAILS SHOWN ON THIS DWG. SHALL BE CONFIRMED BY THE BEARING SUPPLIER.
- DIMENSIONS AND GEOMETRY SHOWN FOR LRBS ARE SCHEMATIC. BEARING MANUFACTURER TO DESIGN THE BEARINGS AND ANCHORAGE BASED ON THE ENVELOPE OF THE LOADS, MOVEMENTS, AND ROTATIONS NOTED ON THE BEARING LOADS AND MOVEMENT TABLE. ONE BEARING SIZE SHALL BE USED FOR ALL LOCATIONS UNLESS APPROVED BY ENGINEER.
- USE TEMPORARY TEMPLATE PLATE TO SECURE ORIENTATION AND PLUMBNESS OF ANCHOR BOLTS DURING POUR. TEMPLATE PLATE SHALL BE SECURED HIGH ON BOLTS USING NUTS TOP & BOT. TIGHTENED SNUG TIGHT TO ALLOW ACCESS TO SURFACE FOR FINISHING.

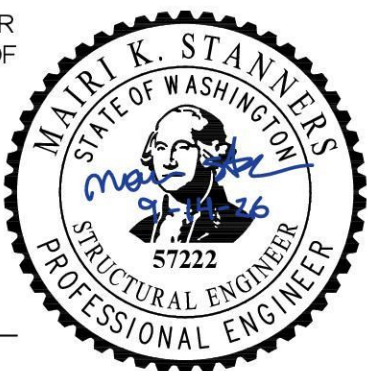
SHEET 33 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
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09-14-2026
DATE



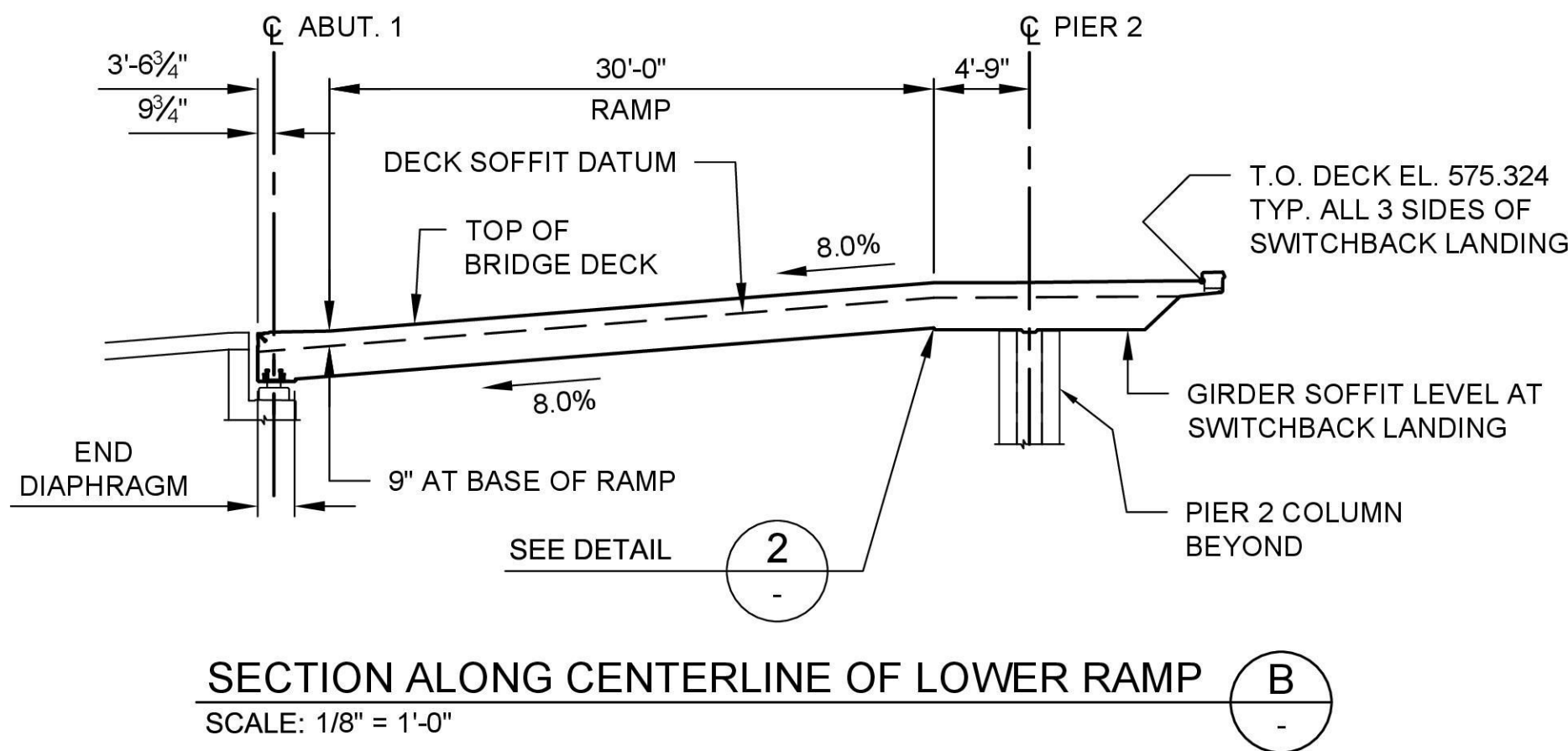
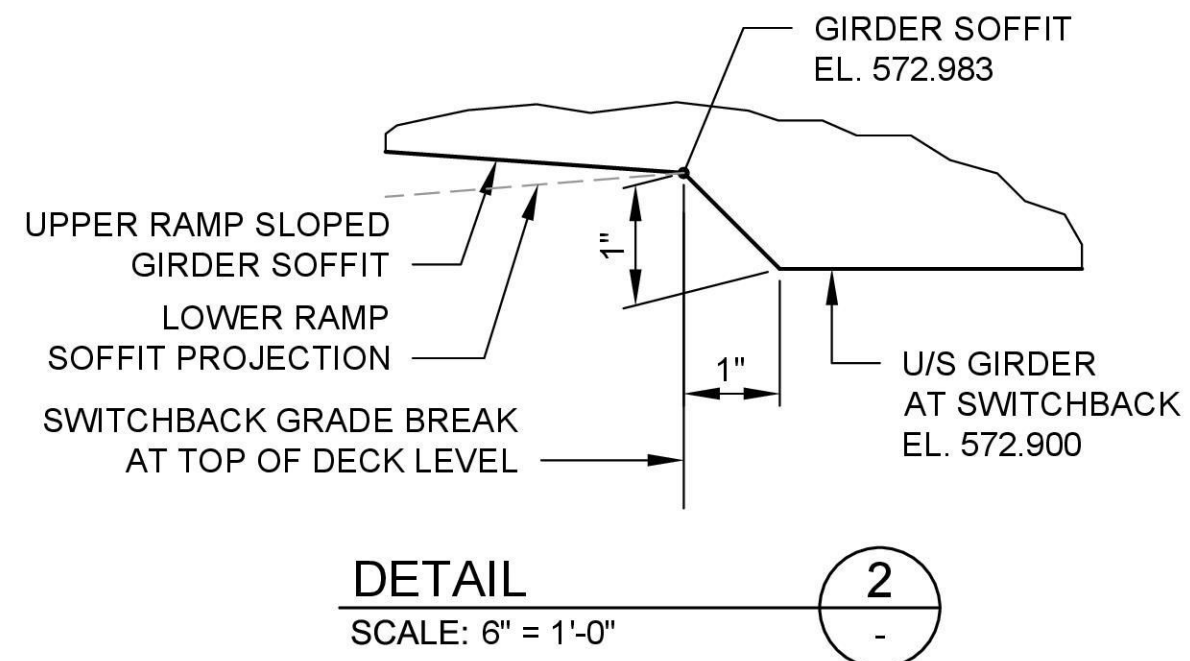
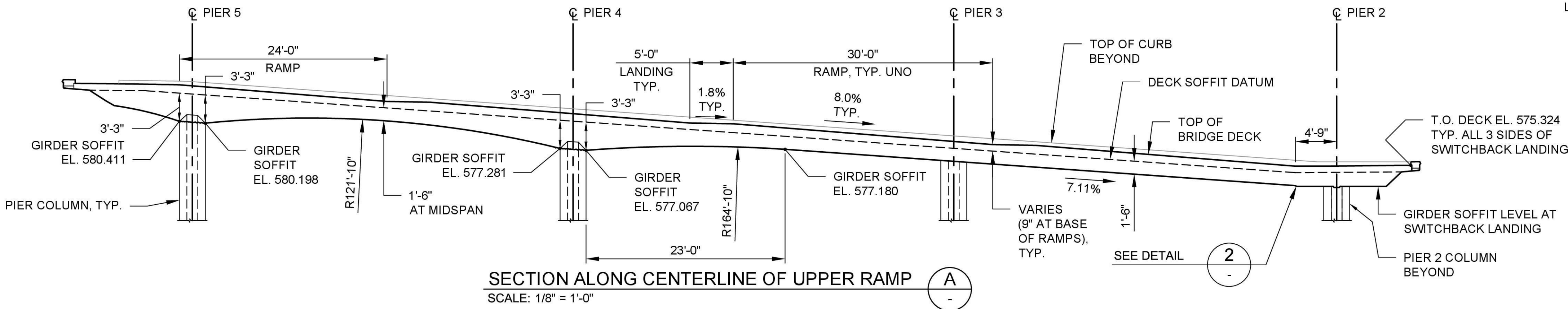
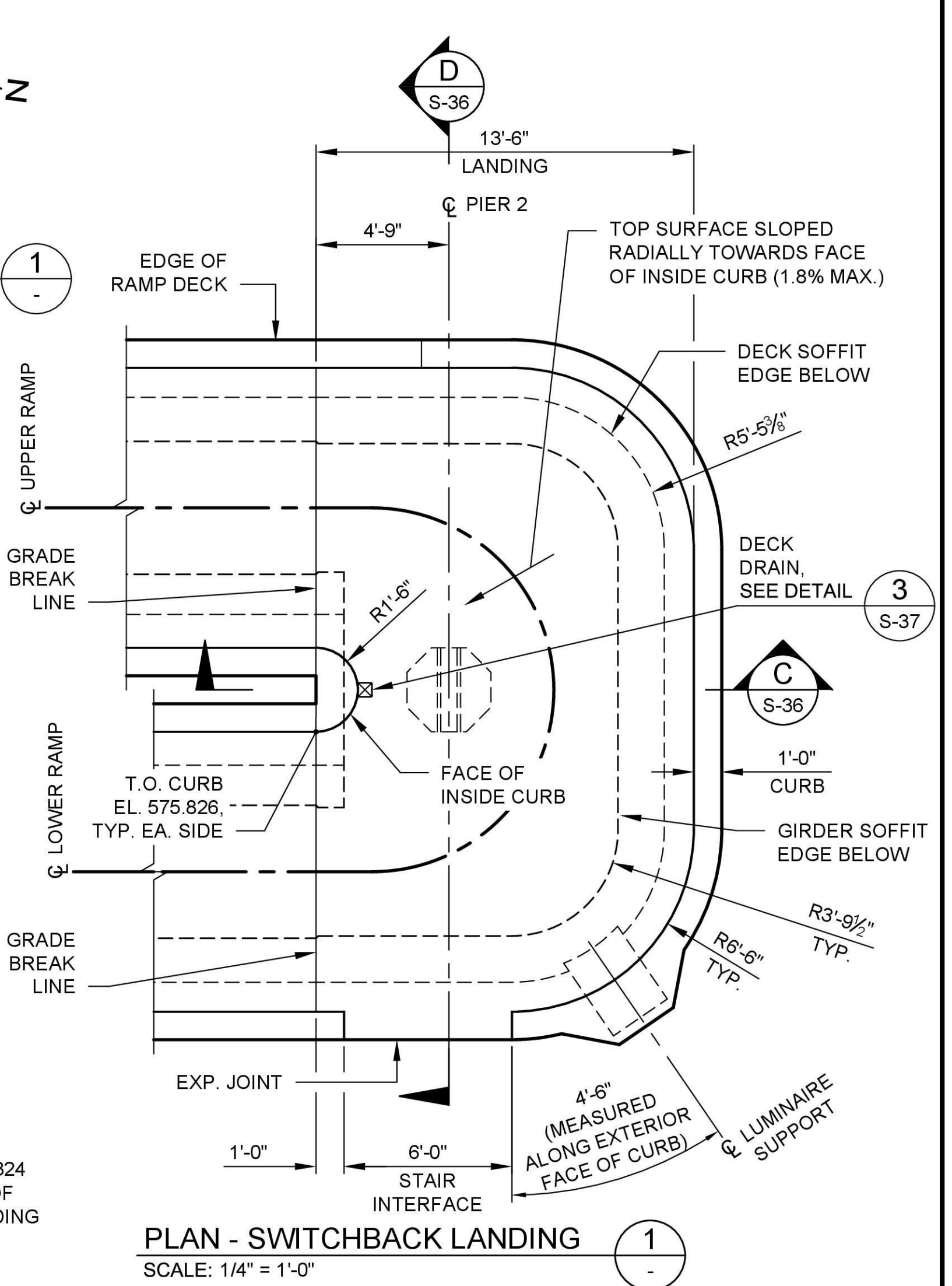
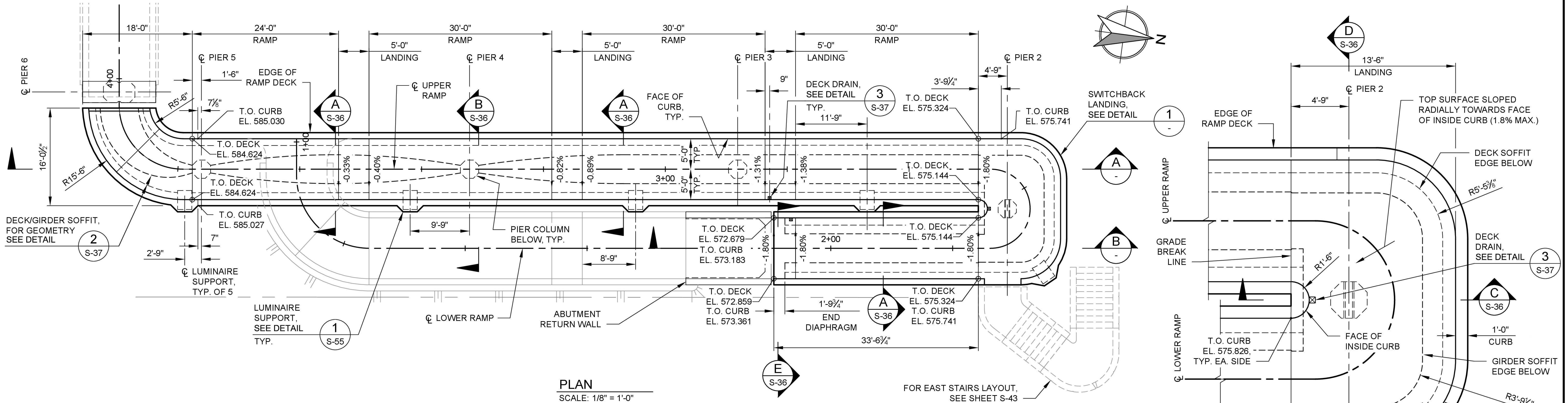
**STRUCTURAL
DESIGN**

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
BEARING DETAILS
SHEET 2

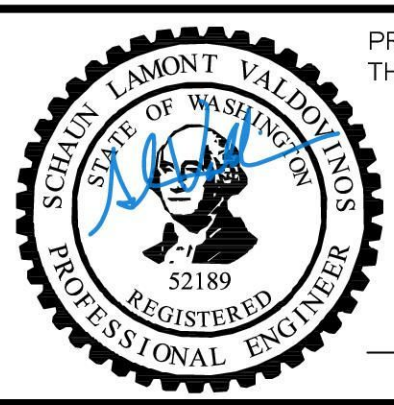
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FILENAME: 1262-DWG-S33	
PROJECT No: 1262	
SHEET: S-33	REV: 0



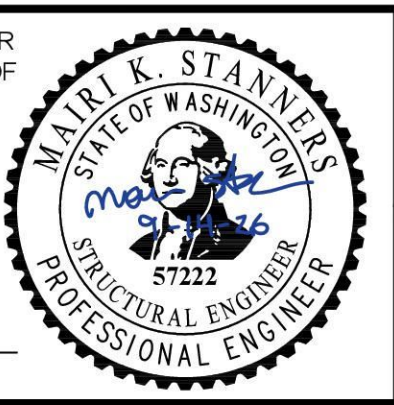
- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - GRADES SHOWN ON LONGITUDINAL SECTIONS ARE GIVEN ALONG CENTERLINE OF RAMP STRUCTURE. SUPERELEVATION IS TO BE APPLIED IN ACCORDANCE WITH ALIGNMENT AND PROFILE GEOMETRY.
 - TRANSVERSE SCORE LINES SHALL BE PROVIDED ON THE CONCRETE DECK SURFACE USING A 1/4" DEEP x 1/2" WIDE SAWCUT @ 5'-0" SPACING ALONG UPPER AND LOWER RAMPS.
 - TOP OF SLAB ELEVATIONS GIVEN AT EXPANSION JOINT ARE DETERMINING OVERALL SLAB PLANES AND DO NOT INCLUDE RECESSES FOR JOINT HARDWARE, FOR DETAILS SEE SHEET S-60.

NOT ISSUED FOR CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER THE DIRECTION OF
09-14-2026
DATE

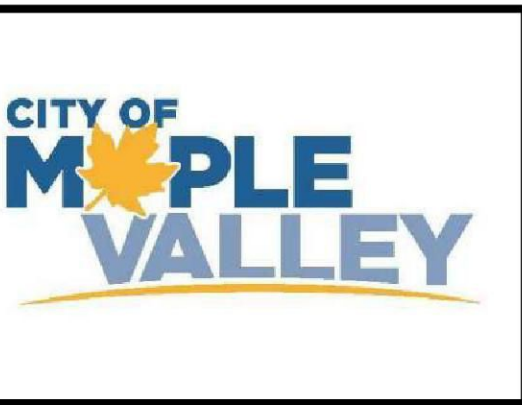


STRUCTURAL DESIGN

DESIGNED: CONG XU DATE: 09/14/2026

DRAWN: SCOTT VARNEY DATE: 09/14/2026

CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

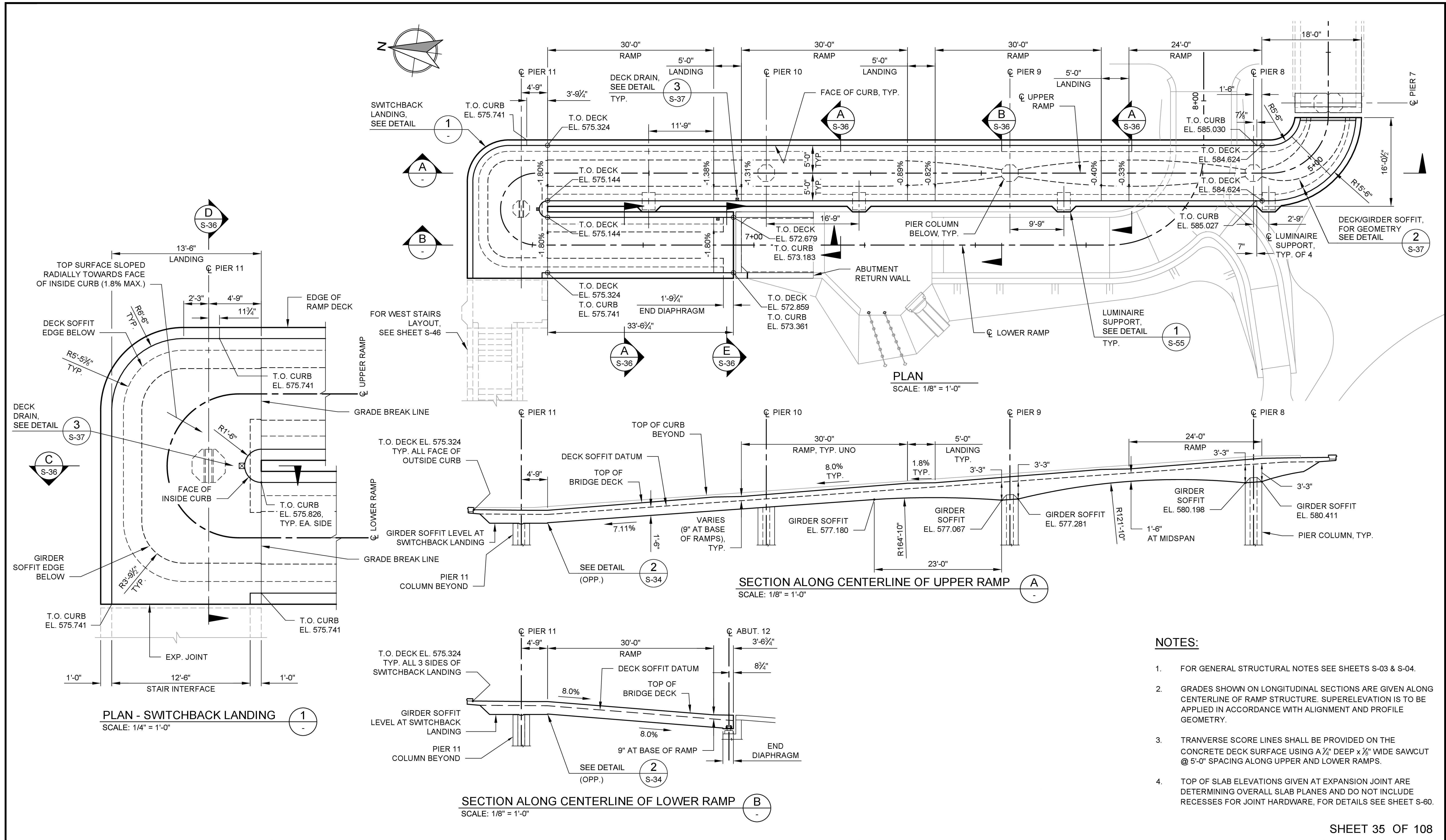


CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

EAST RAMP SUPERSTRUCTURE LAYOUT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S34_S37	
PROJECT No: 1262	
SHEET: S-34	REV: 0



SHEET 35 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



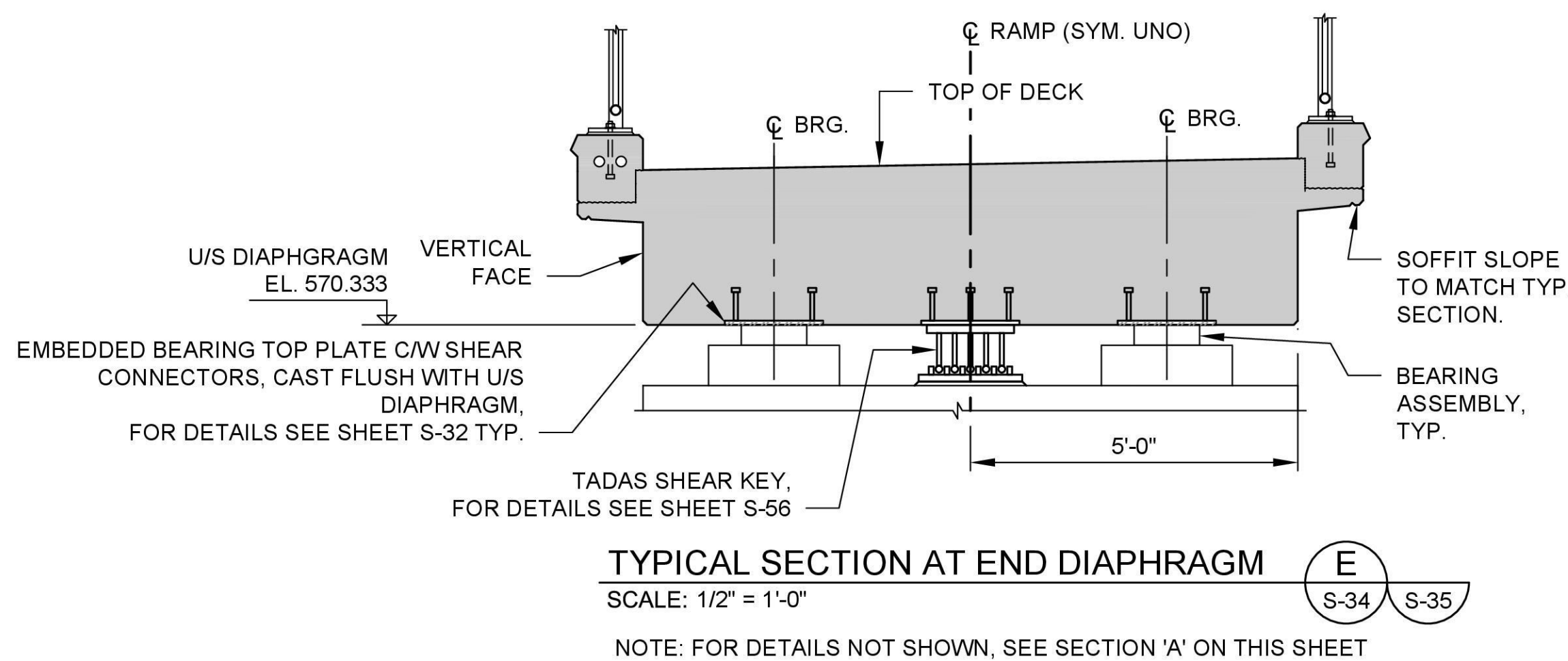
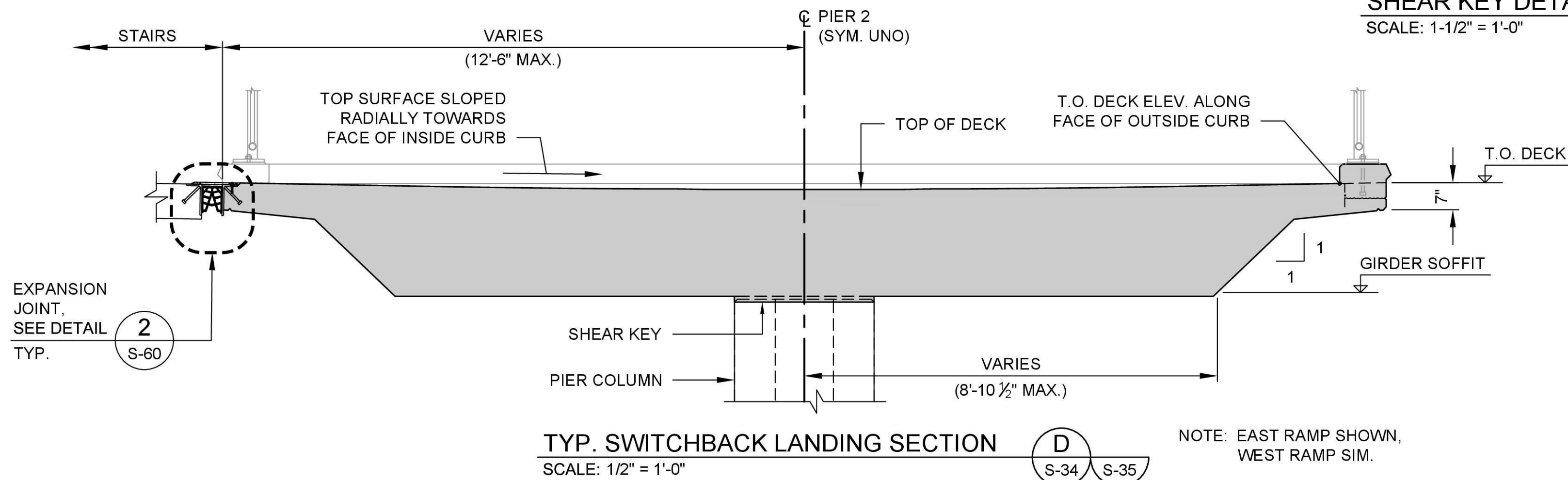
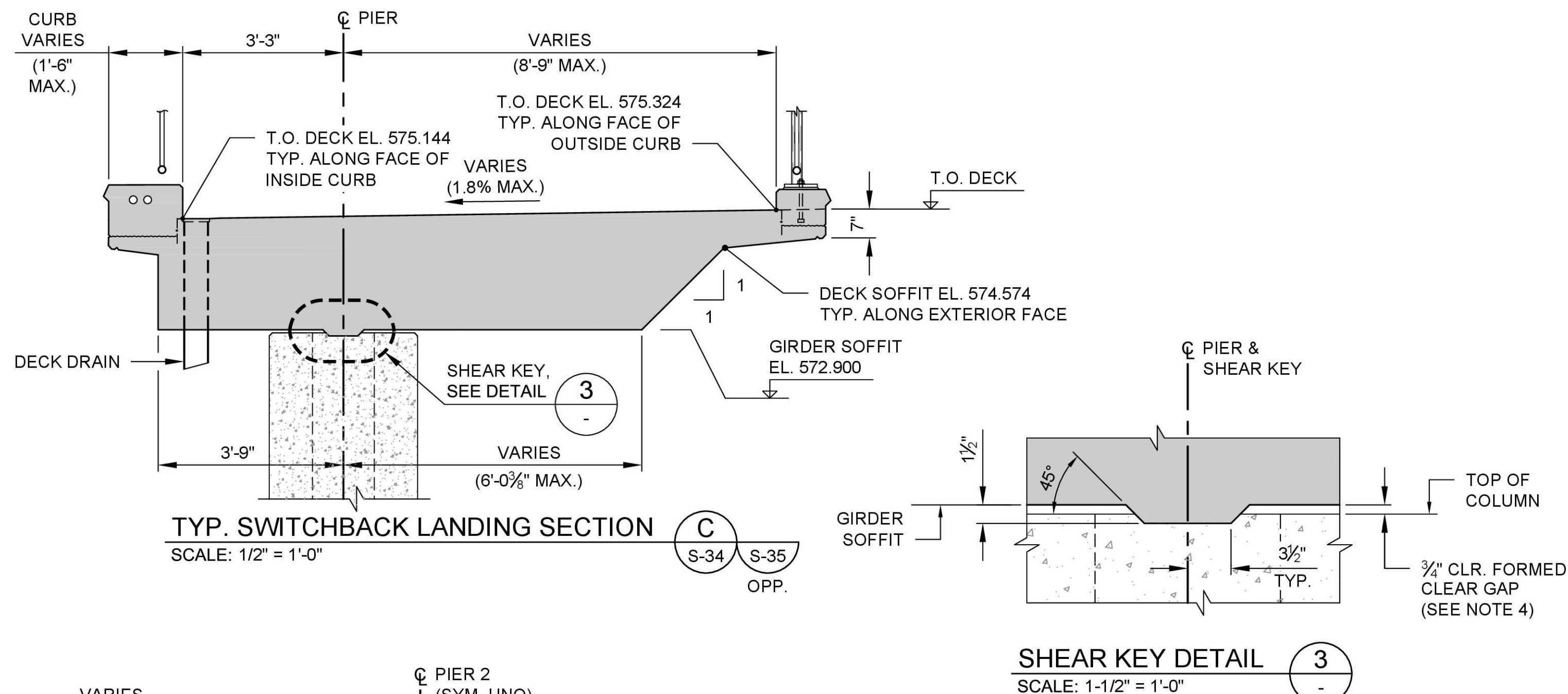
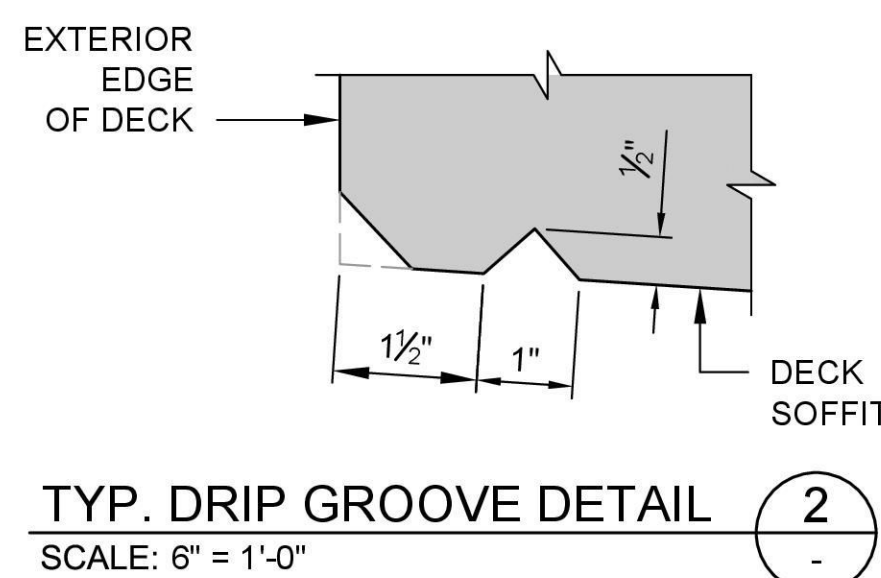
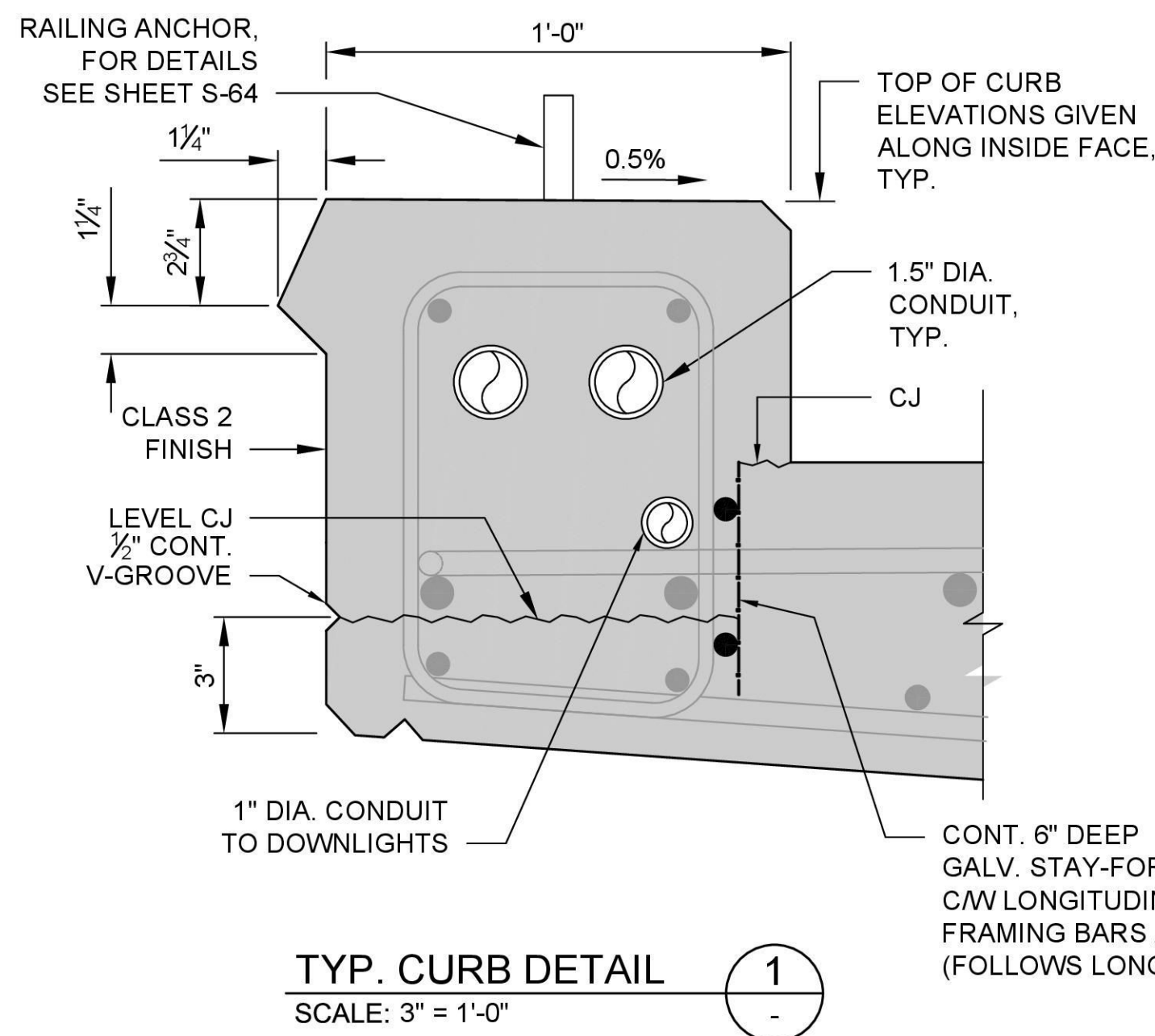
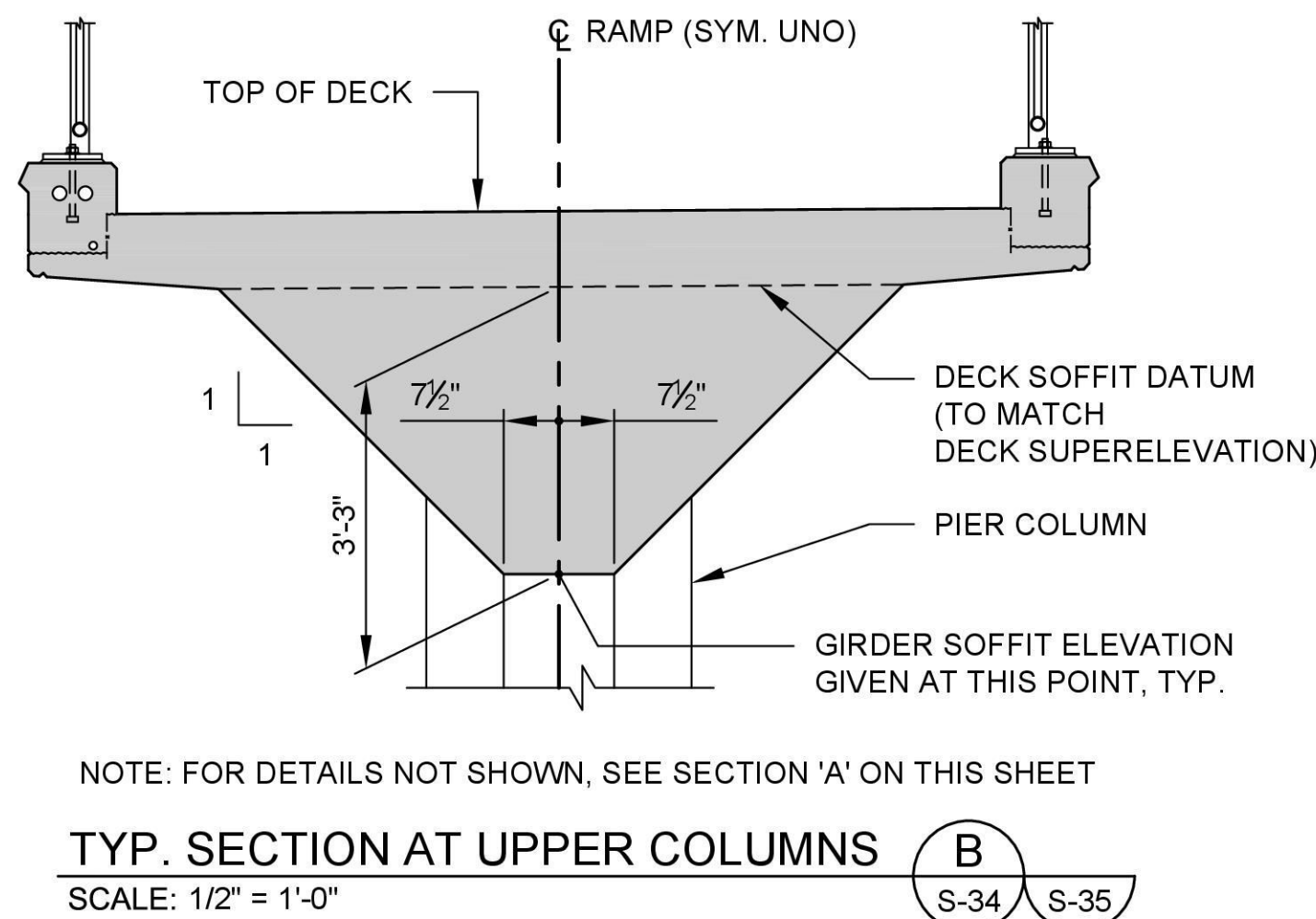
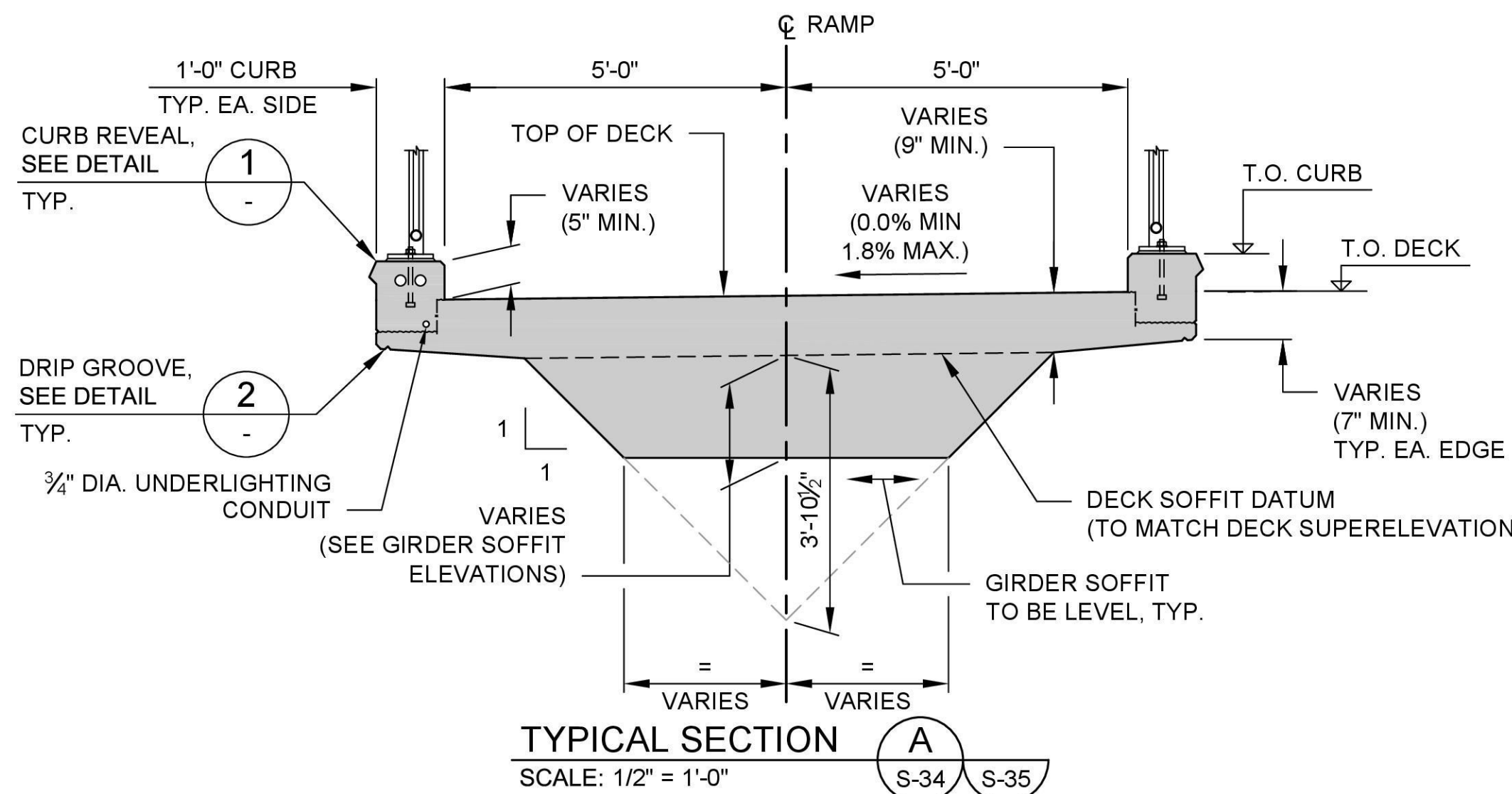
DESIGNED: CONG XU
DATE: 09/14/2026
DRAWN: SCOTT VARNEY
DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026

STRUCTURAL
DESIGN



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
WEST RAMP SUPERSTRUCTURE
LAYOUT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S34_S37	
PROJECT No: 1262	
SHEET: S-35	REV: 0

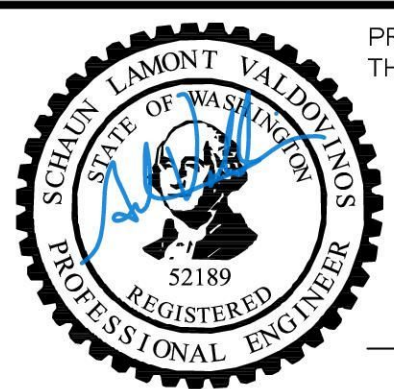


- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEET S-03 & S-04.
 - DRIP GROOVES SHALL BE CONTINUOUS ALONG ENTIRE PERIMETER OF CAST-IN-PLACE DECK SOFFITS, TYP. UNLESS EXPLICITLY NOTED OTHERWISE.
 - CONTRACTOR MAY ELECT TO INTRODUCE A CONSTRUCTION JOINT AT THE TOP OF GIRDER AND DECK SOFFIT. IF A CONSTRUCTION JOINT IS UTILIZED AT THIS LOCATION, THEN THE GIRDER CONCRETE MAY BE CLASS 4000. THE CONCRETE FOR THE DECK AND CURBS SHALL BE CLASS 4000D.
 - THE MATERIAL USED TO FORM THE GAP SHALL BE STRONG ENOUGH TO SUPPORT THE WET CONCRETE CONDITION AND SHALL BE REMOVED AFTER CONCRETE PLACEMENT.

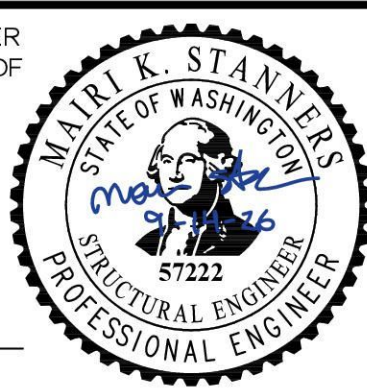
SHEET 36 OF 108

NOT ISSUED FOR CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



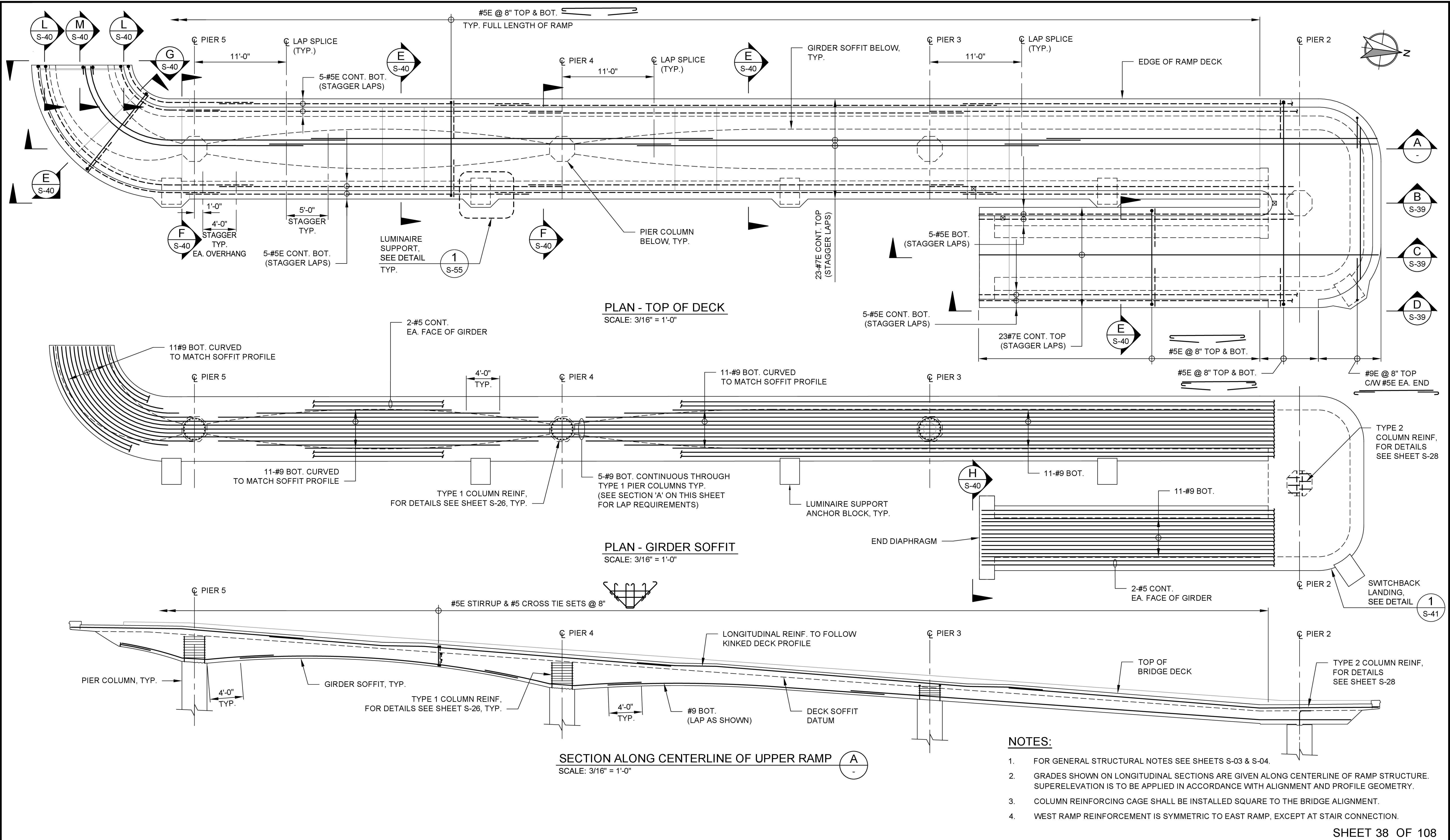
PREPARED UNDER THE DIRECTION OF
09-14-2026
DATE



V+M	STRUCTURAL DESIGN
DESIGNED: CONG XU	DATE: 09/14/2026
DRAWN: SCOTT VARNEY	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026



CITY OF MAPLE VALLEY		SCALE: AS SHOWN
T-57 SR 169 PEDESTRIAN BRIDGE		FILENAME: 1262-DWG-S34_S37
RAMP SUPERSTRUCTURE DETAILS		PROJECT No: 1262
SHEET 1		SHEET: S-36
		REV: 0



NOT ISSUED FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS

SCAUN LAMONT VALDOVINOS

REGISTERED PROFESSIONAL ENGINEER

52189

PREPARED UNDER THE DIRECTION OF

MAIRI K. STANNERS

REGISTERED PROFESSIONAL ENGINEER

57222

09-14-2026

DATE

VZM

STRUCTURAL DESIGN

DESIGNED: CONG XU

DRAWN: GARY LEE

CHECKED: SCHAUN VALDOVINOS

DATE: 09/14/2026

DATE: 09/14/2026

DATE: 09/14/2026

CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

RAMP SUPERSTRUCTURE REINFORCEMENT - SHEET 1

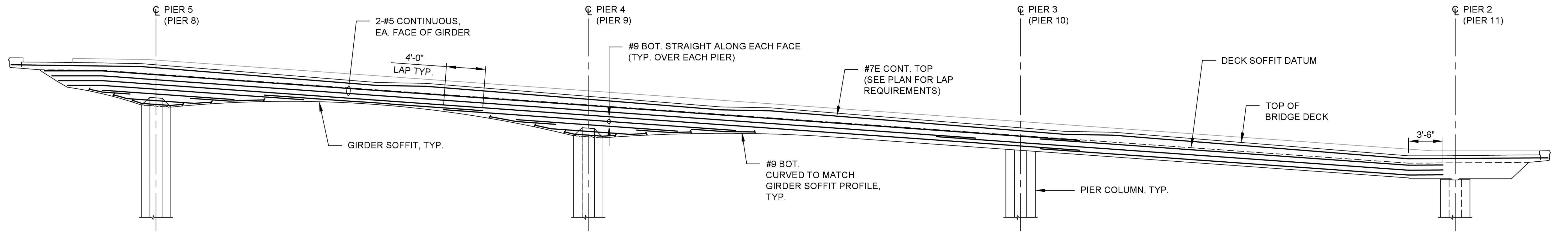
SCALE: AS SHOWN

FILENAME: 1262-DWG-S38_S41

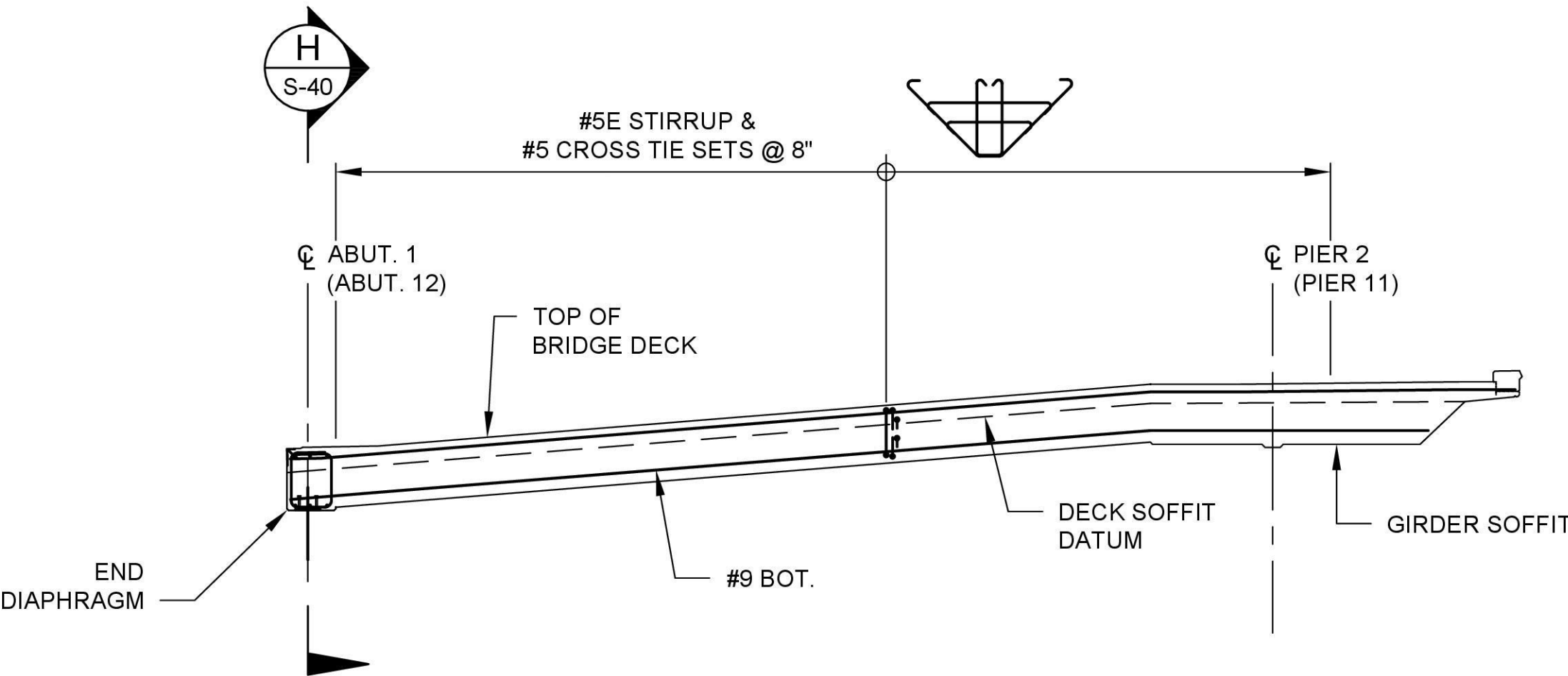
PROJECT No: 1262

SHEET: S-38

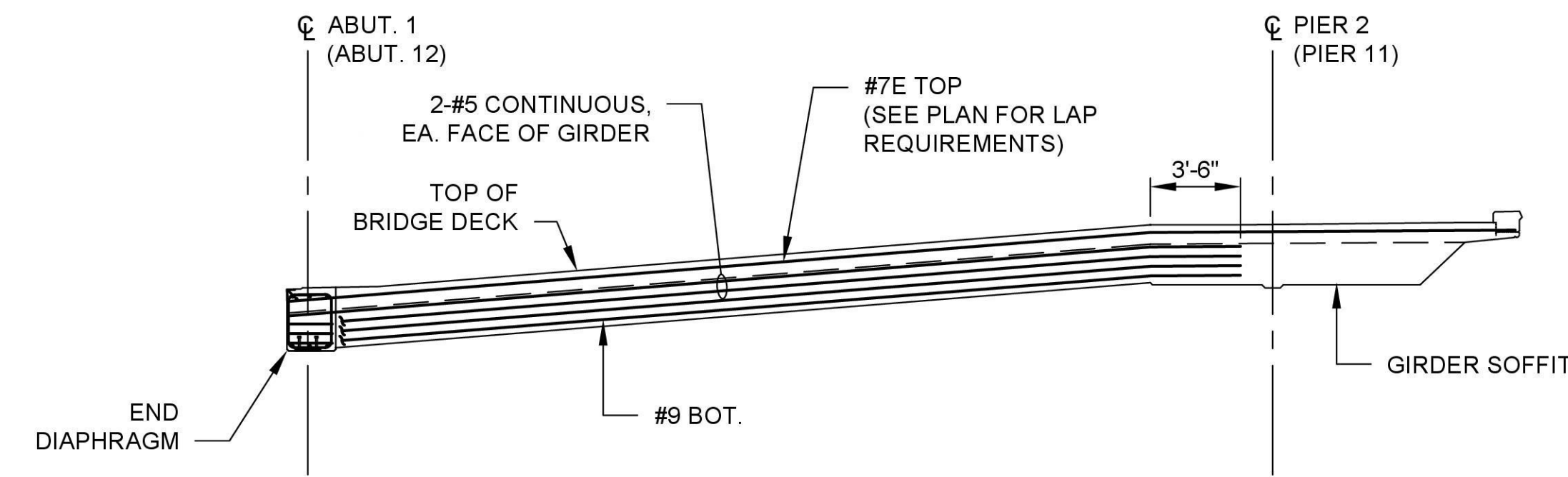
REV: 0



EXTERIOR ELEVATION ALONG UPPER RAMP GIRDER (B) S-38
SCALE: 3/16" = 1'-0"
NOTE: LUMINAIRE SUPPORTS NOT SHOWN FOR CLARITY



SECTION ALONG CENTERLINE OF LOWER RAMP (C) S-38
SCALE: 3/16" = 1'-0"



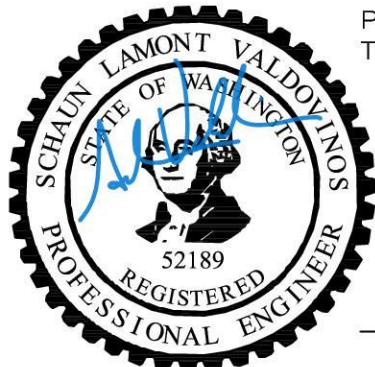
EXTERIOR ELEVATION ALONG LOWER RAMP GIRDER (D) S-38
SCALE: 3/16" = 1'-0"
NOTE: LUMINAIRE SUPPORTS NOT SHOWN FOR CLARITY

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- GRADES SHOWN ON LONGITUDINAL SECTIONS ARE GIVEN ALONG CENTERLINE OF RAMP STRUCTURE. SUPERELEVATION IS TO BE APPLIED IN ACCORDANCE WITH ALIGNMENT AND PROFILE GEOMETRY.

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



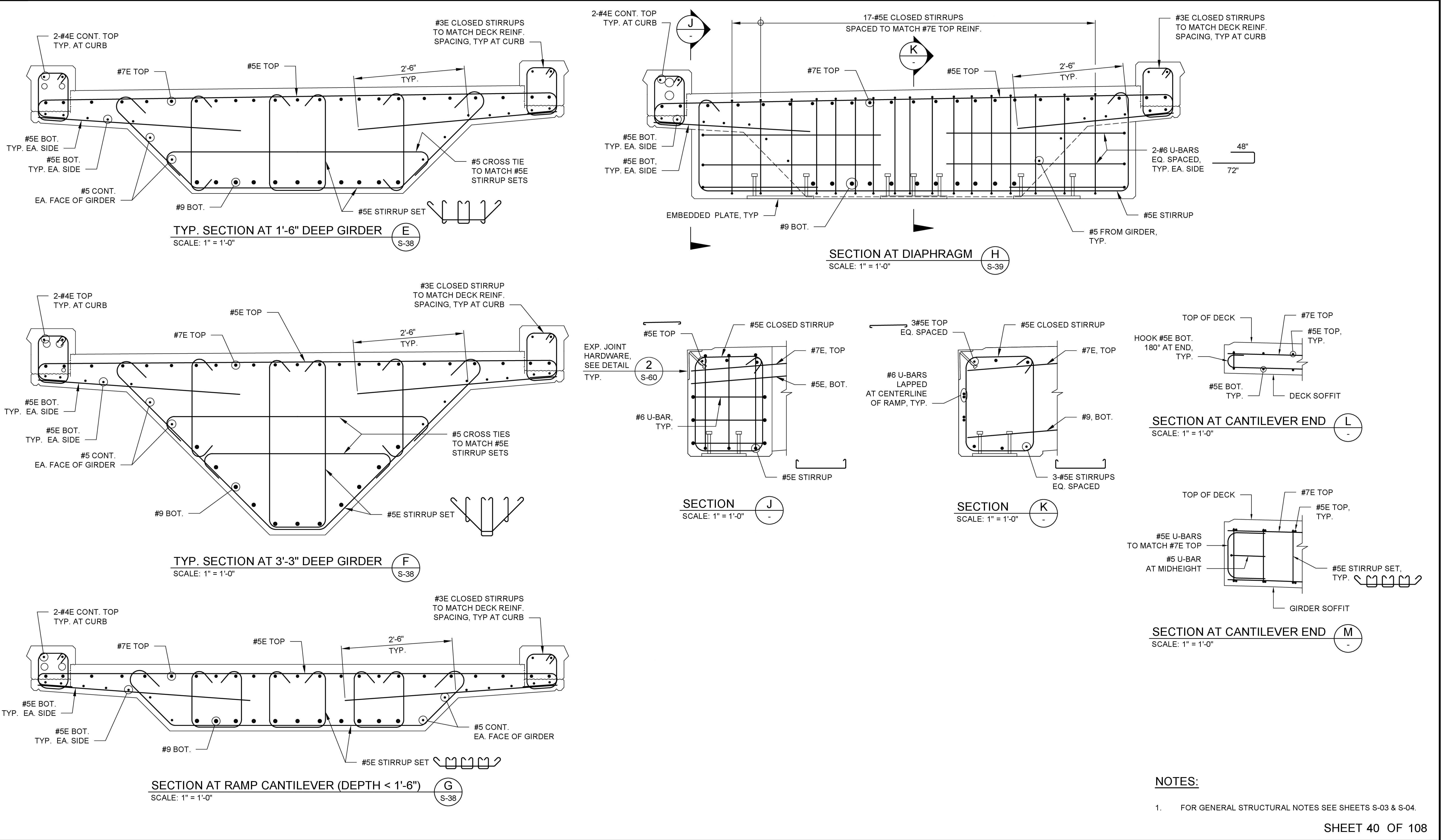
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: GARY LEE DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAMP SUPERSTRUCTURE
REINFORCEMENT - SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S38_S41	
PROJECT No: 1262	
SHEET: S-39	REV: 0



NOTES:

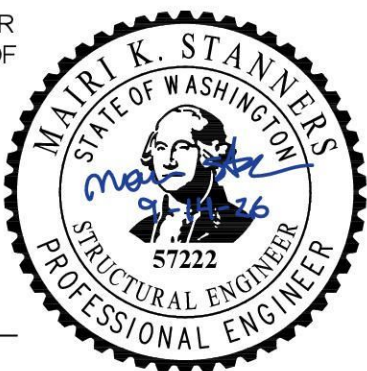
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



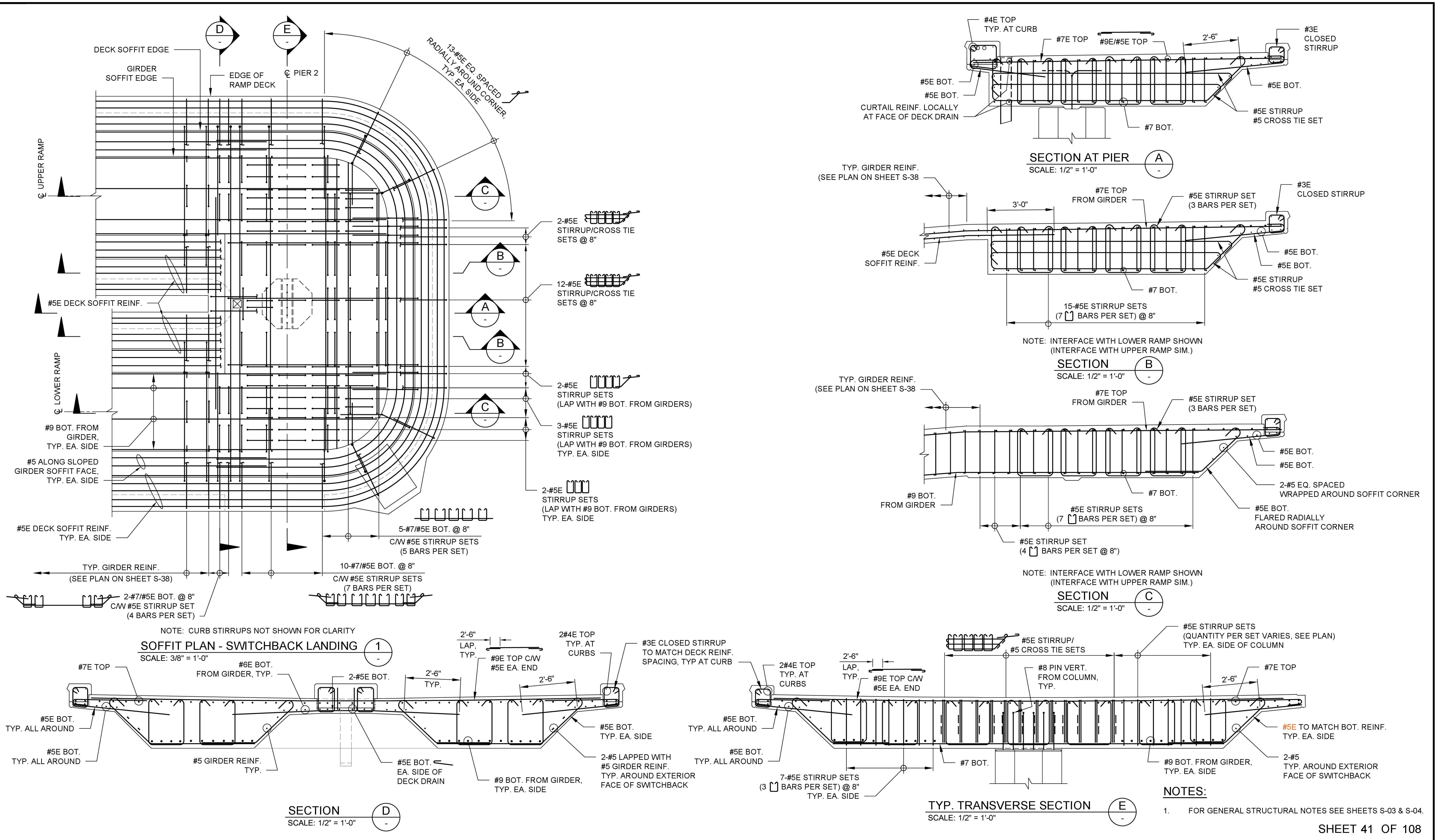
STRUCTURAL
DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: GARY LEE DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



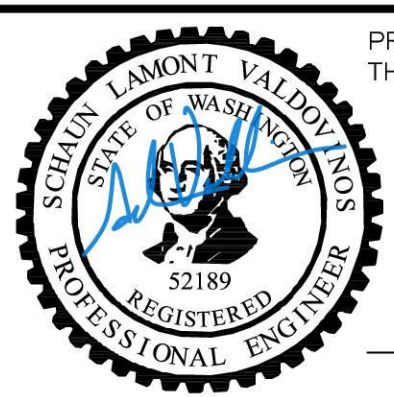
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAMP SUPERSTRUCTURE
REINFORCEMENT - SHEET 3

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S38_S41	
PROJECT No: 1262	
SHEET: S-40	REV: 0



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CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS

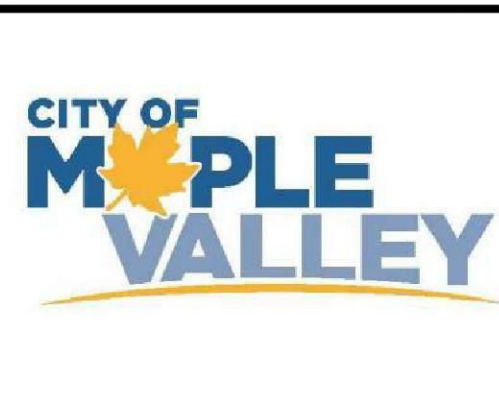


PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



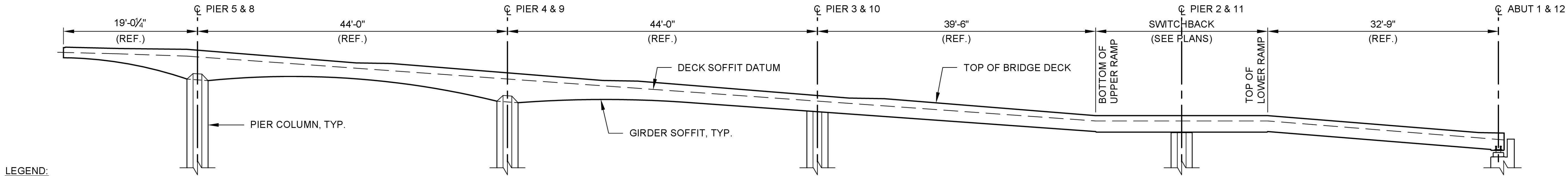
DESIGNED: CONG XU
DATE: 09/14/2026
DRAWN: GARY LEE
DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026

STRUCTURAL
DESIGN



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAMP SUPERSTRUCTURE
REINFORCEMENT - SHEET 4

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S38_S41	
PROJECT No:	
1262	
SHEET:	REV:
S-41	0



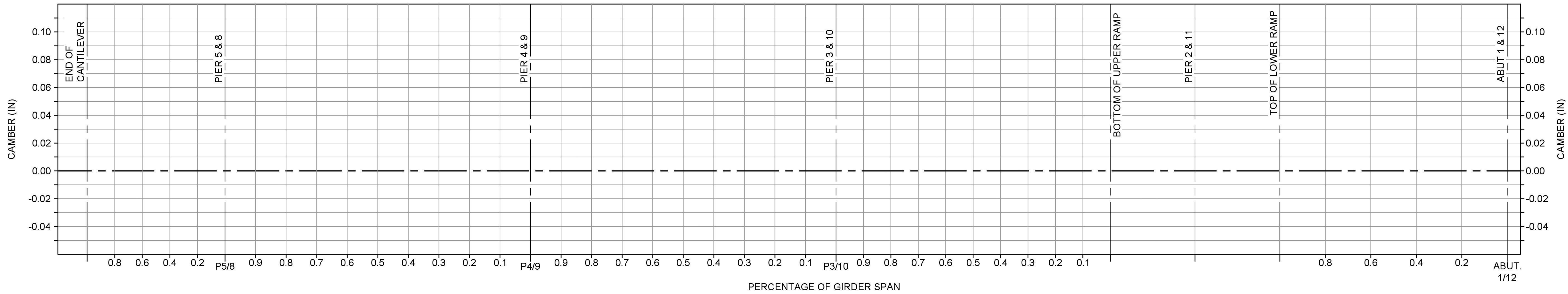
LEGEND:

- NET CAMBER
- SELF-WEIGHT DEFLECTION
- SHRINKAGE
- ADDITIONAL DEAD LOAD DEFLECTION

ELEVATION ALONG BRIDGE CENTERLINE

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

NOTE: CURB PROFILE NOT SHOWN



CAMBER DIAGRAM

N.T.S.

CAMBER VALUES

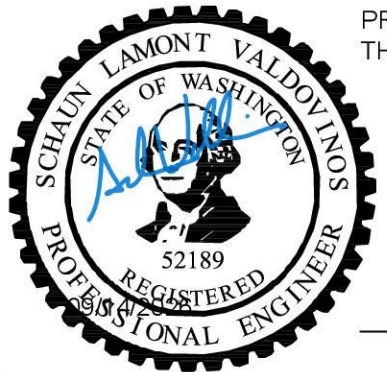
CAMBER VALUES																																																
PARAMETER	PERCENTAGE OF GIRDER SPAN																																															
	END OF CANTILEVER	0.8	0.6	0.4	0.2	P5 & 8	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	P4 & 9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	P3 & 10	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	BOT. OF UPPER RAMP	SWITCHBACK	TOP OF LOWER RAMP	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	ABUT. 1/12
SELF-WEIGHT DEFLECTION (IN)	0.26	0.23	0.16	0.08	0.03	0	0.02	0.03	0.05	0.05	0.06	0.05	0.05	0.02	0.02	0	0.02	0.03	0.05	0.05	0.06	0.05	0.05	0.03	0.01	0	0.05	0.08	0.12	0.15	0.17	0.18	0.19	0.18	0.16	0.10		0.08	0.14	0.17	0.18	0.19	0.19	0.18	0.15	0.12	0.09	0
ADDITIONAL DEAD LOAD DEFLECTION (IN)	0.04	0.04	0.02	0.01	0.00	0	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02		0.03	0.04	0.04	0.04	0.03	0.03	0.02	0			
SHRINKAGE (IN)	-0.06	-0.06	-0.05	-0.04	-0.02	0	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.00	0	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0			
NET CAMBER (IN)	0.24	0.21	0.13	0.06	0.01	0	0.04	0.07	0.09	0.10	0.09	0.09	0.08	0.05	0.02	0	0.02	0.04	0.07	0.07	0.08	0.07	0.07	0.04	0.02	0	0.06	0.10	0.14	0.18	0.21	0.23	0.24	0.23	0.20	0.12		0.12	0.19	0.22	0.24	0.25	0.25	0.23	0.20	0.16	0.11	0

- ALL CAMBER VALUES PROVIDED IN INCHES AND AT TENTH POINTS AS INDICATED
- SELF-WEIGHT DEFLECTION BASED ON GIRDER AND DECK CONCRETE
- ADDITIONAL DEAD LOAD DEFLECTION BASED ON INCLUSION OF RAILING AND CURBS
- SHRINKAGE BASED ON LONG TERM EFFECTS

SHEET 42 OF 108

NOT ISSUED FOR CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER THE DIRECTION OF

09-14-2026

DATE



STRUCTURAL DESIGN

DESIGNED: CONG XU DATE: 09/14/2026

DRAWN: SCOTT VARNEY DATE: 09/14/2026

CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



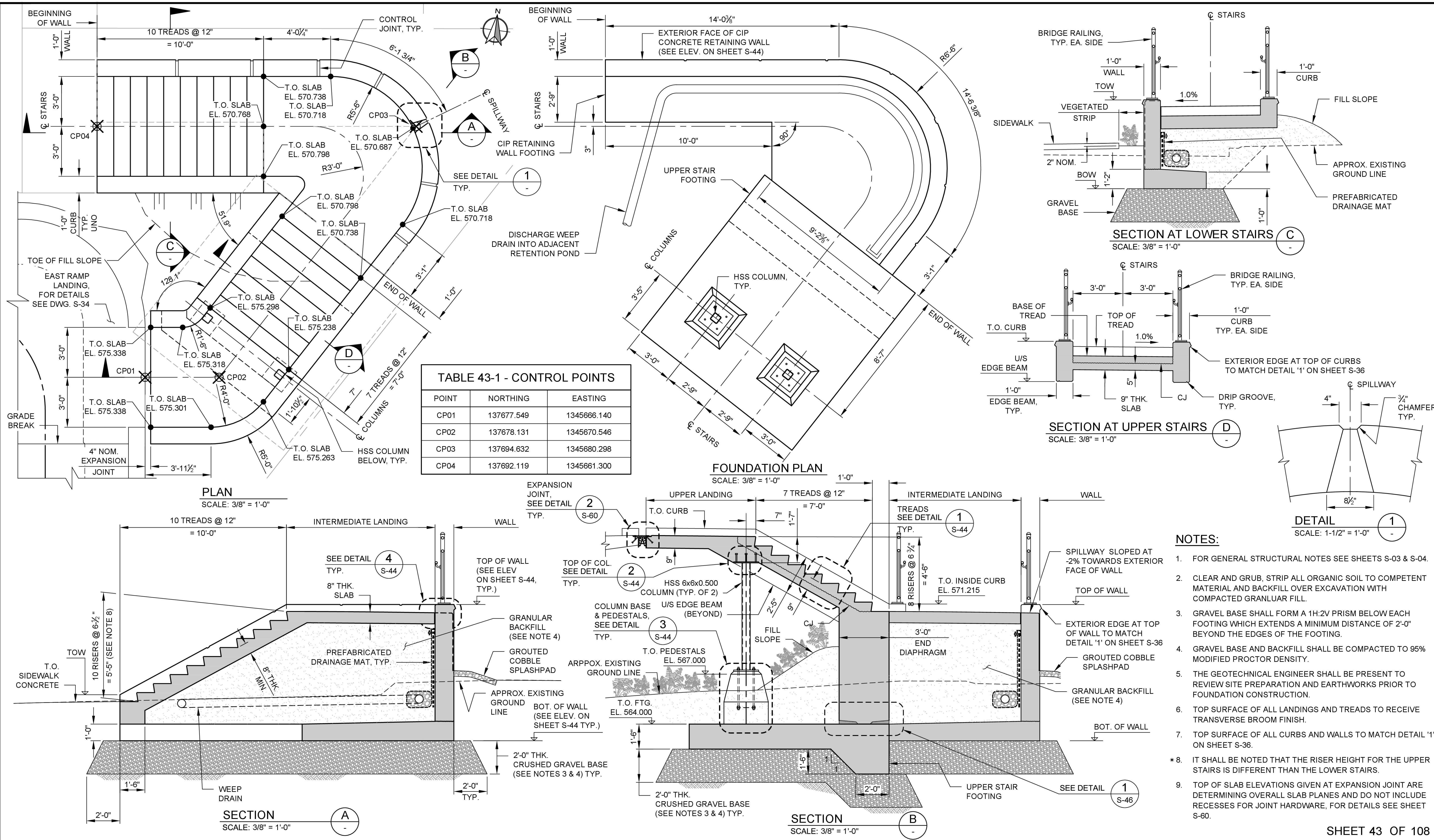
CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

RAMP SUPERSTRUCTURE

CAMBER DIAGRAM

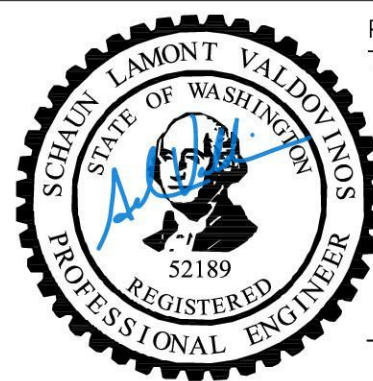
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S42	
PROJECT No: 1262	
SHEET: S-42	REV: 0



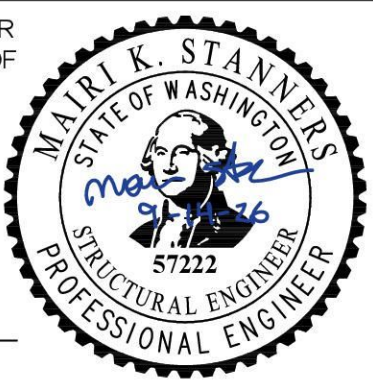
- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 2. CLEAR AND GRUB, STRIP ALL ORGANIC SOIL TO COMPETENT MATERIAL AND BACKFILL OVER EXCAVATION WITH COMPACTED GRANULAR FILL.
 3. GRAVEL BASE SHALL FORM A 1H:2V PRISM BELOW EACH FOOTING WHICH EXTENDS A MINIMUM DISTANCE OF 2'-0" BEYOND THE EDGES OF THE FOOTING.
 4. GRAVEL BASE AND BACKFILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 5. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO REVIEW SITE PREPARATION AND EARTHWORKS PRIOR TO FOUNDATION CONSTRUCTION.
 6. TOP SURFACE OF ALL LANDINGS AND TREADS TO RECEIVE TRANSVERSE BROOM FINISH.
 7. TOP SURFACE OF ALL CURBS AND WALLS TO MATCH DETAIL '1' ON SHEET S-36.
 - * 8. IT SHALL BE NOTED THAT THE RISER HEIGHT FOR THE UPPER STAIRS IS DIFFERENT THAN THE LOWER STAIRS.
 9. TOP OF SLAB ELEVATIONS GIVEN AT EXPANSION JOINT ARE DETERMINING OVERALL SLAB PLANES AND DO NOT INCLUDE RECESSES FOR JOINT HARDWARE, FOR DETAILS SEE SHEET S-60.

NOT ISSUED FOR CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER THE DIRECTION OF
09-14-2026
DATE



STRUCTURAL DESIGN

DESIGNED: DESMOND CHUA DATE: 09/14/2026

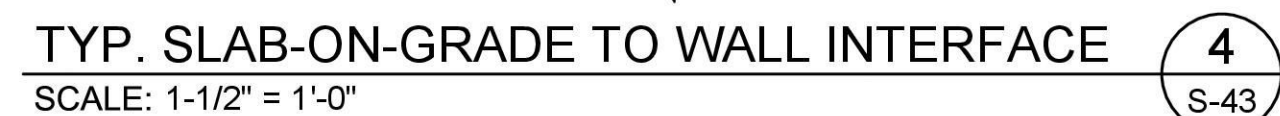
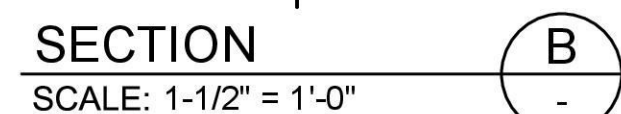
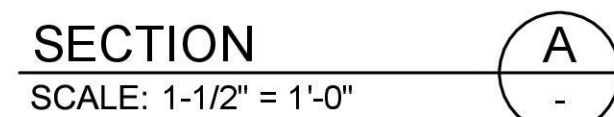
DRAWN: SCOTT VARNEY DATE: 09/14/2026

CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
EAST STAIRS
LAYOUT AND DETAILS - SHEET 1

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S43_S44	
PROJECT No: 1262	
SHEET: S-43	REV: 0

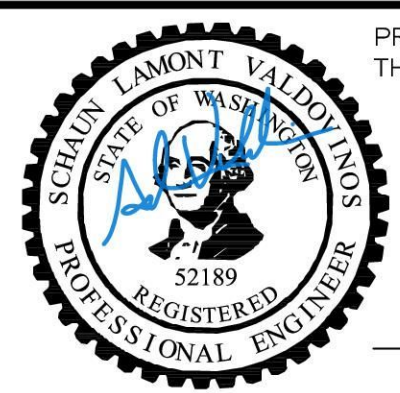


1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. A TEMPORARY TEMPLATE PLATE (TO MATCH EMBEDDED BOTTOM TEMPLATE) SHALL BE UTILIZED AT TOP OF ANCHORS DURING CASTING, WITH TEMPORARY NUTS SECURED TO TEMPLATE PLATE TOP & BOT. TO ENSURE BOLTS ARE PERPENDICULAR TO TEMPLATE.
3. JOINT FILLER SHALL COVER FULL INTERFACE BETWEEN END DIAPHRAGM AND RETAINING WALL (INCLUDING WALL FOOTING).
4. PRIOR TO CASTING PEDESTALS, CONTRACTOR SHALL REMOVE LAITANCE DOWN TO SOUND CONCRETE AT THE CONSTRUCTION JOINTS AND SHALL CLEAN EXPOSED REINFORCEMENT.

SHEET 44 OF 108

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CONSTRUCTION**

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REV	DATE	DESCRIPTION	BY
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STRUCTURAL DESIGN

DESIGNED: DESMOND CHUA DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



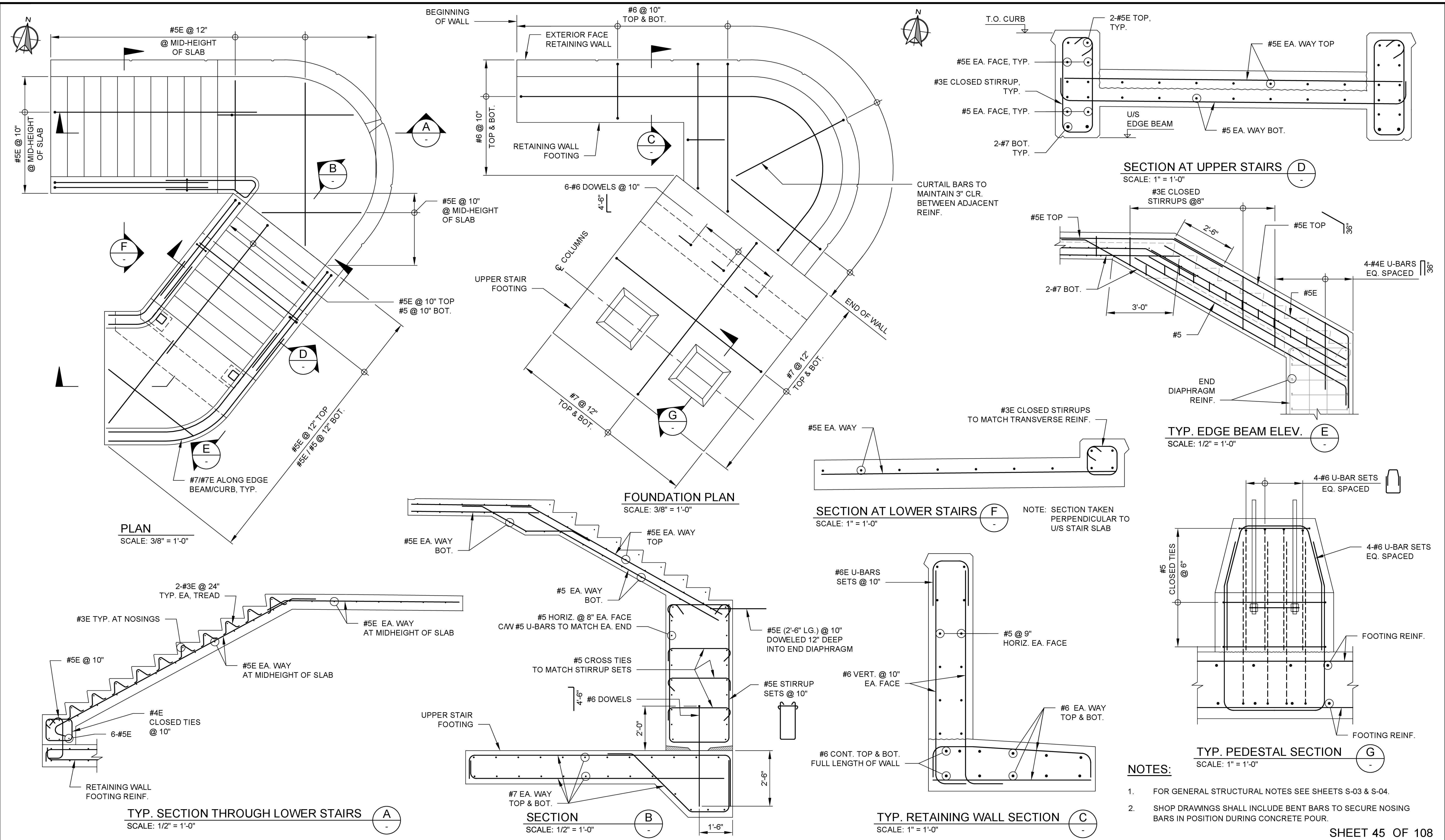
CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

EAST STAIRS

LAYOUT AND DETAILS -SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S43_S44	
PROJECT No: 1262	
SHEET: S-44	REV: 0



- NOTES:
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - SHOP DRAWINGS SHALL INCLUDE BENT BARS TO SECURE NOSING BARS IN POSITION DURING CONCRETE POUR.
- SHEET 45 OF 108

NOT ISSUED FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY
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SCHAUN LAMONT VALDIVINOS

REGISTERED PROFESSIONAL ENGINEER

52189

PREPARED UNDER THE DIRECTION OF

MAURI K. STANNERS

REGISTERED PROFESSIONAL ENGINEER

57222

09-14-2026

DATE

VZM

STRUCTURAL DESIGN

DESIGNED: DESMOND CHUA

DATE: 09/14/2026

DRAWN: SCOTT VARNEY

DATE: 09/14/2026

CHECKED: SCHAUN VALDIVINOS

DATE: 09/14/2026

CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

EAST STAIRS REINFORCEMENT

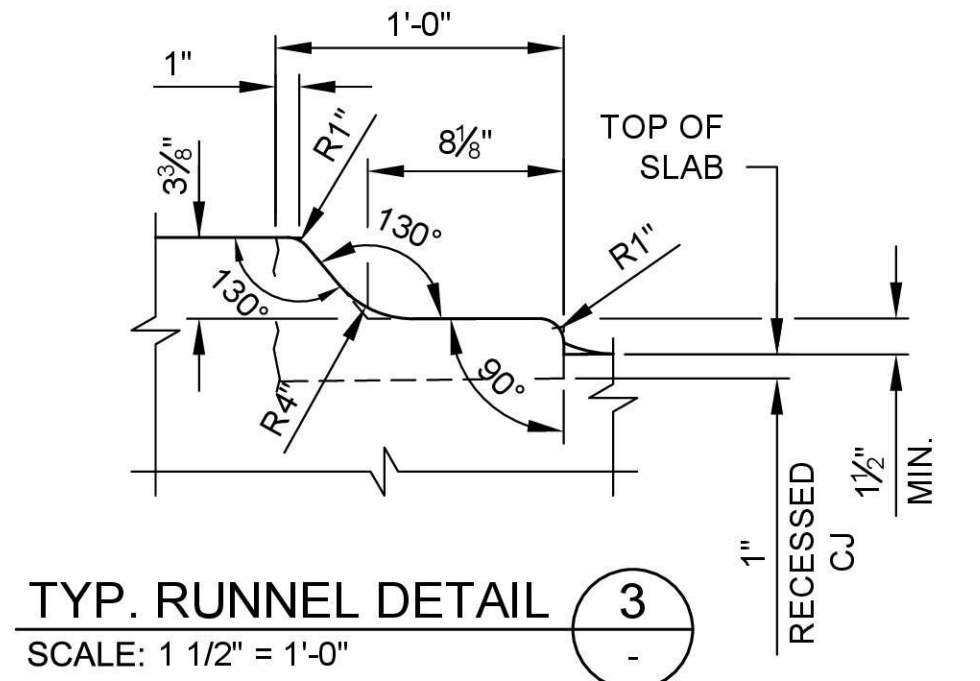
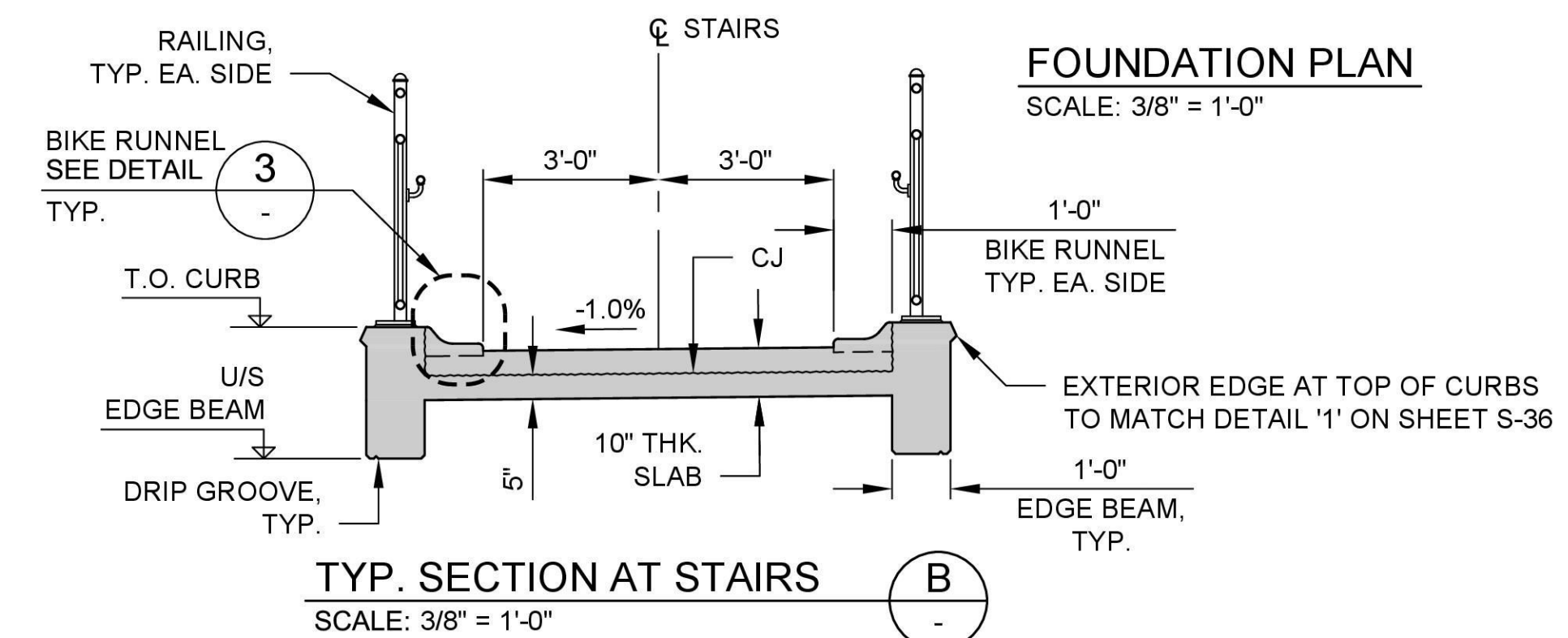
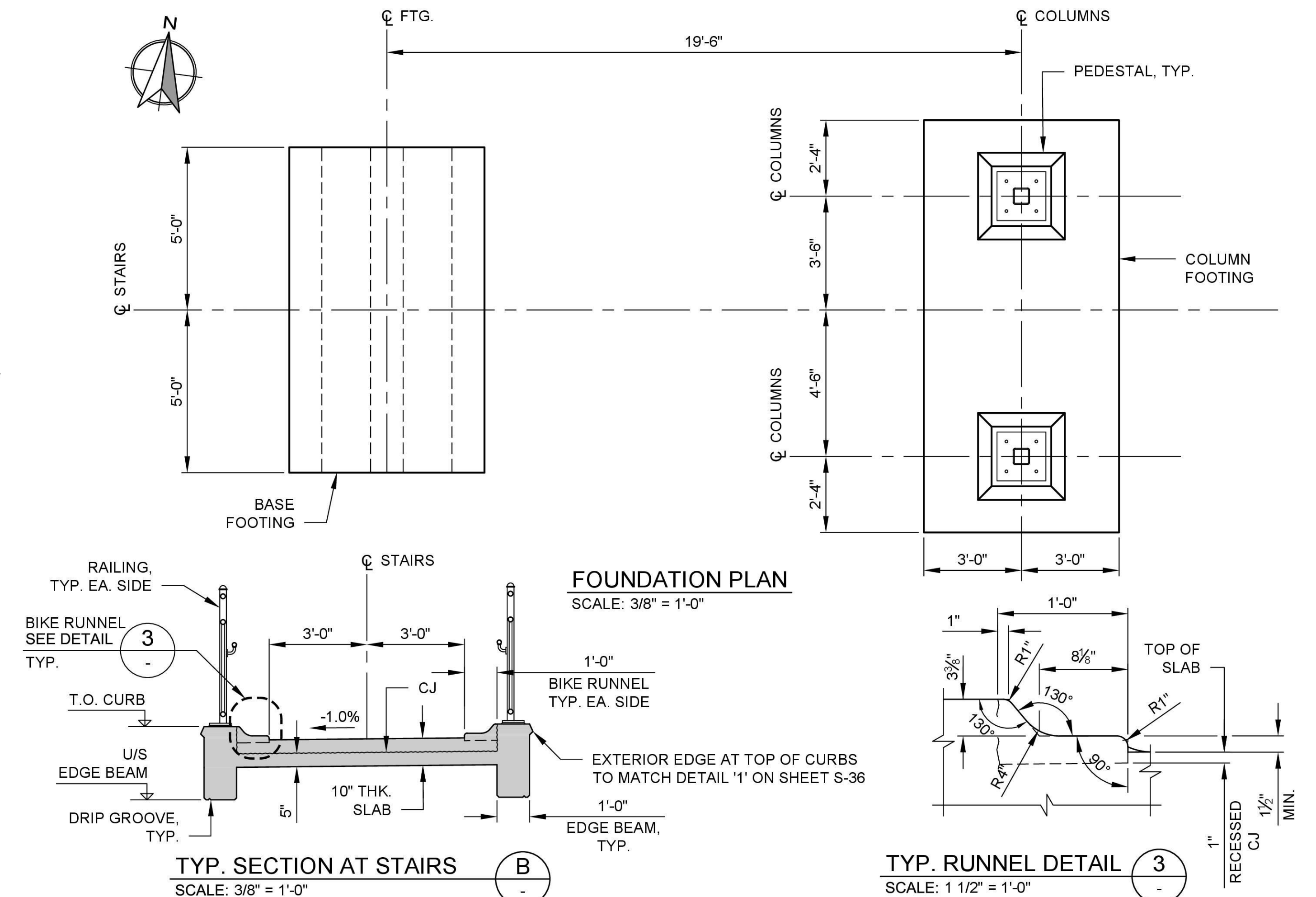
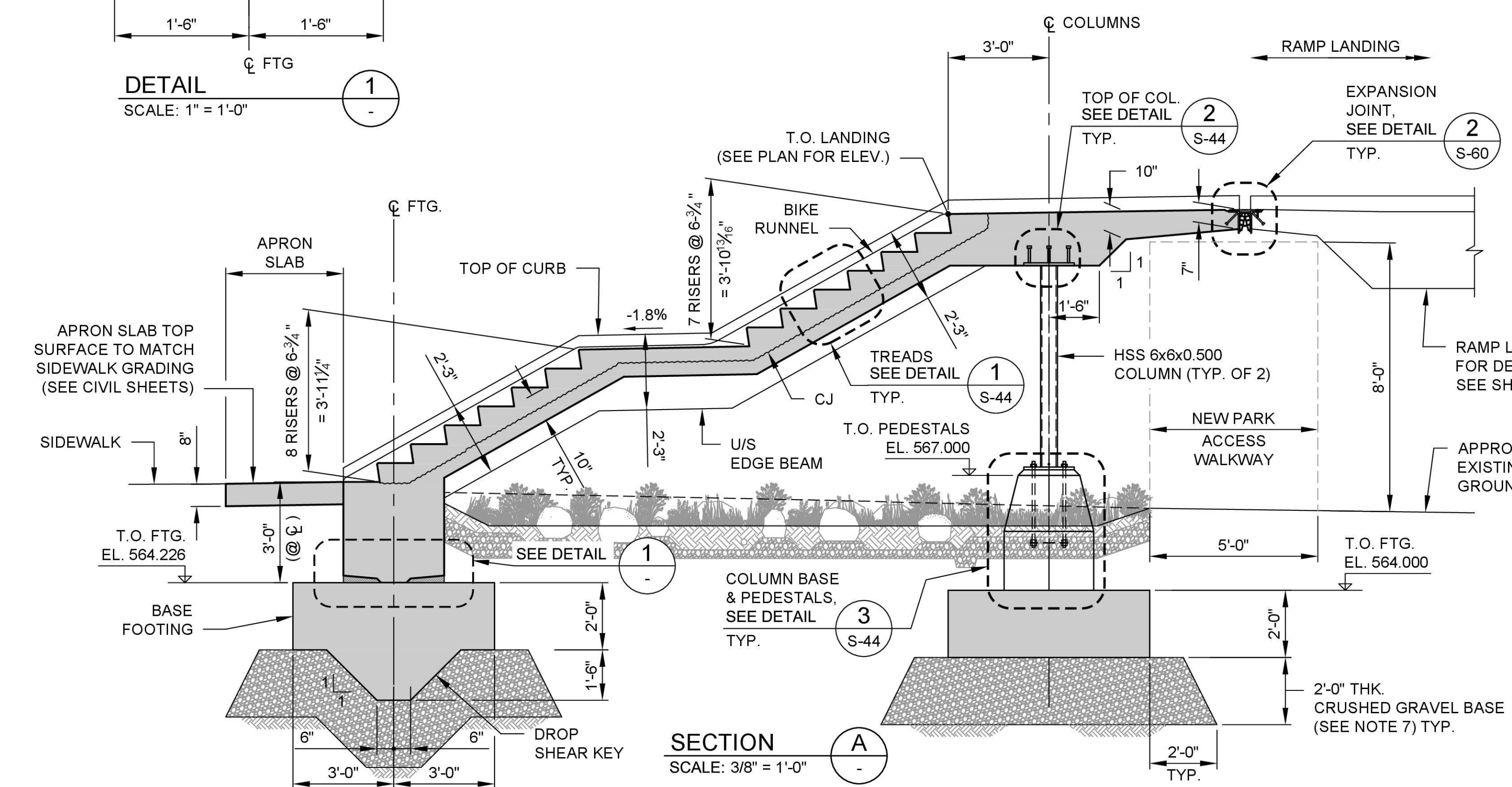
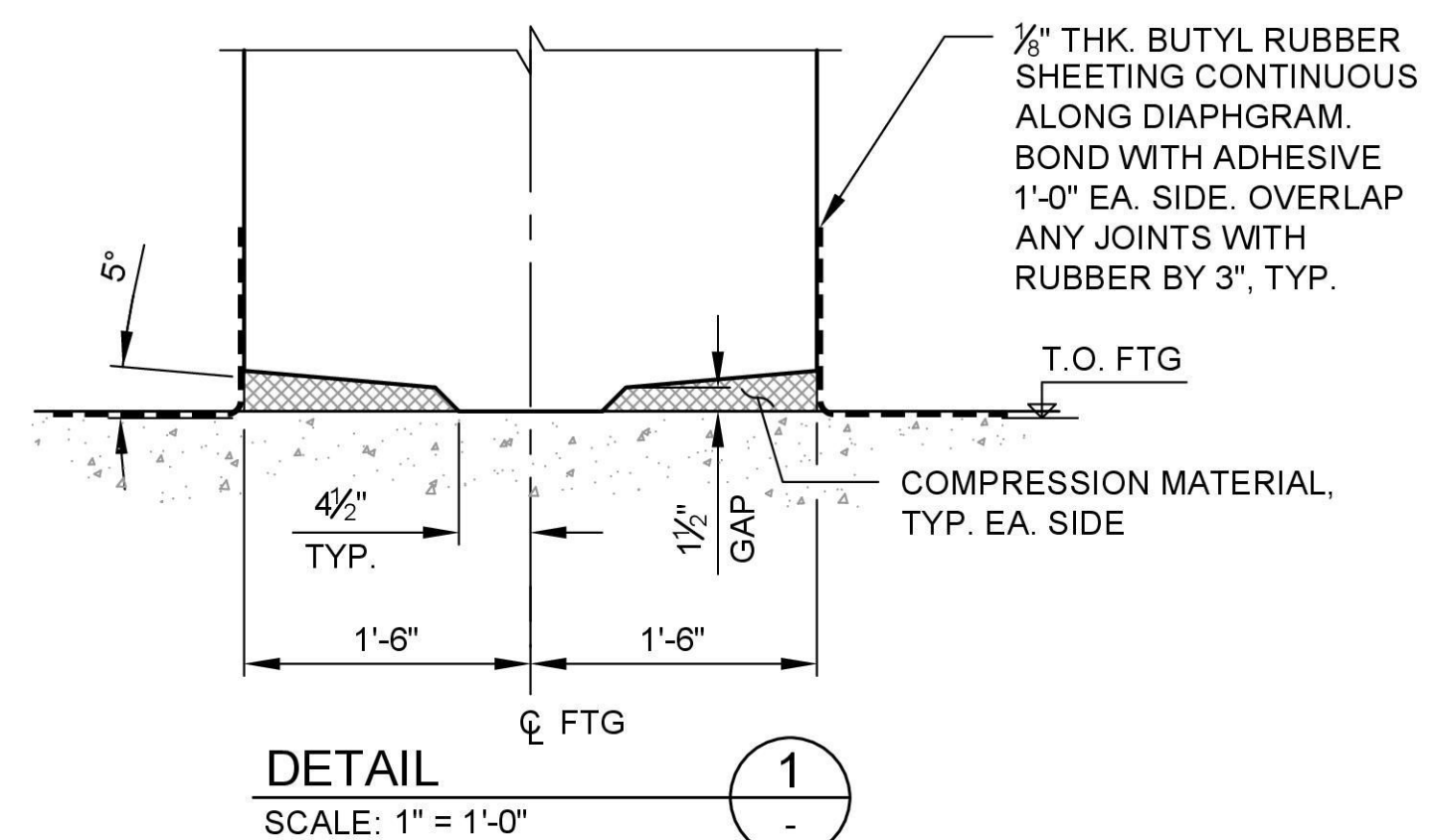
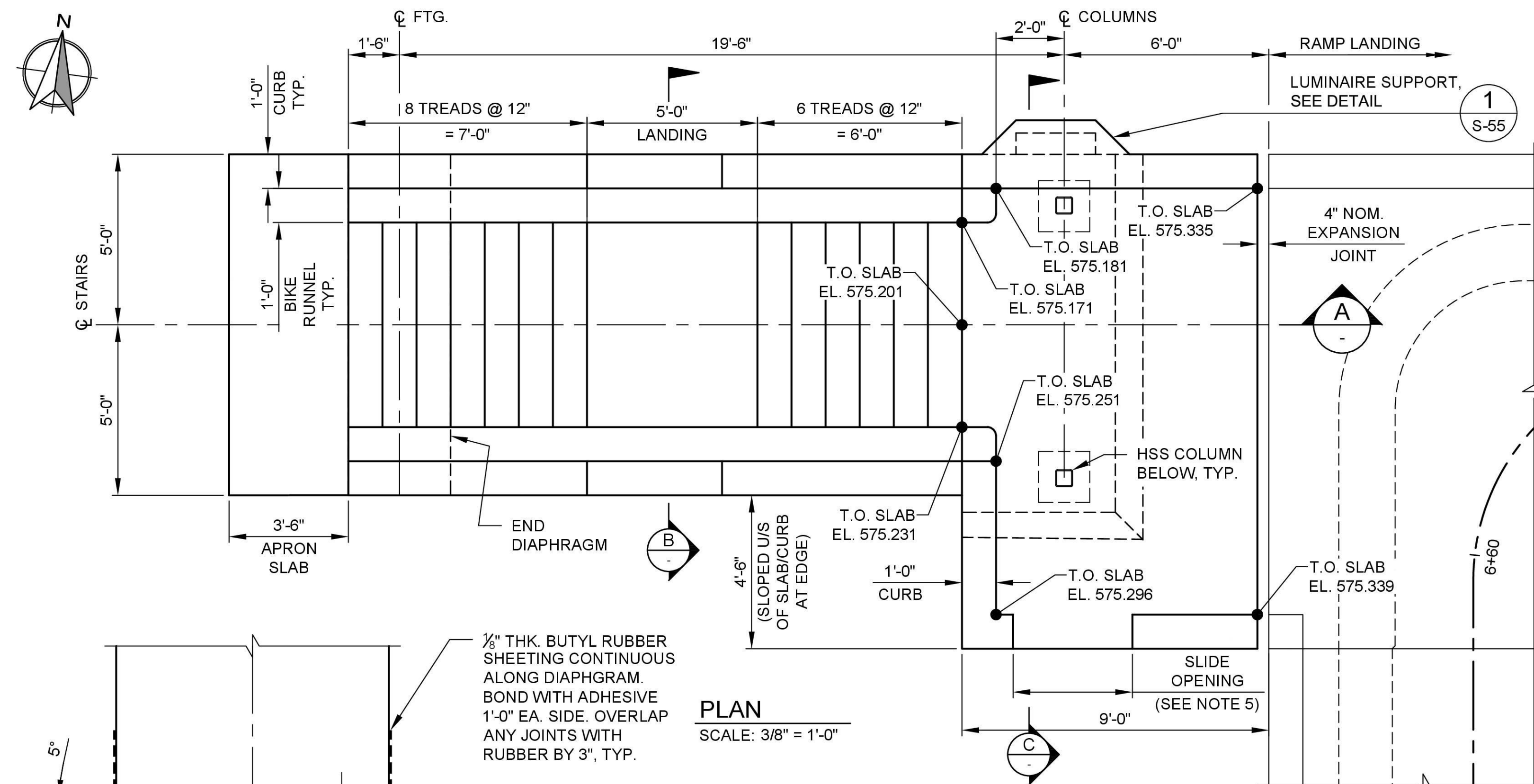
SCALE: AS SHOWN

FILENAME: 1262-DWG-S45

PROJECT No: 1262

SHEET: S-45

REV: 0



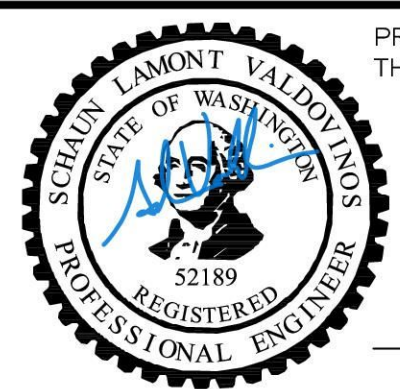
- NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. TOP SURFACE OF ALL LANDINGS AND TREADS TO RECEIVE TRANSVERSE BROOM FINISH.
3. TOP SURFACE OF ALL CURBS AND WALLS TO MATCH DETAIL '1' ON SHEET S-36.
4. BOULDER DIMENSIONS SHALL BE 1'-0" MINIMUM DIMENSION IN ALL DIRECTIONS.
5. SLIDE OPENING AND INTERFACE TO BE COORDINATED WITH SLIDE SUPPLIER.
6. CLEAR AND GRUB, STRIP ALL ORGANIC SOIL TO COMPETENT MATERIAL AND BACKFILL OVER EXCAVATION WITH COMPACTED GRANULAR FILL.
7. GRAVEL BASE SHALL FOR MA 1H:2V PRISM BELOW EACH FOOTING WHICH EXTENDS A MINIMUM DISTANCE OF 2'-0" BEYOND THE EDGES OF THE FOOTING.
8. GRAVEL BASE AND BACKFILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
9. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO REVIEW SITE PREPARATION AND EARTHWORKS PRIOR TO FOUNDATION CONSTRUCTION.
10. TOP OF SLAB ELEVATIONS GIVEN AT EXPANSION JOINT ARE DETERMINING OVERALL SLAB PLANES AND DO NOT INCLUDE RECESSES FOR JOINT HARDWARE, FOR DETAILS SEE SHEET S-60.

SHEET 46 OF 108

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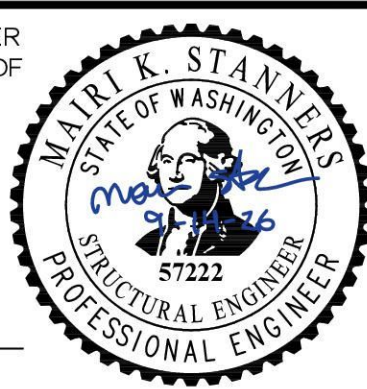
REVISIONS			
REV	DATE	DESCRIPTION	BY
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09-14-2026

DATE



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DESIGNED: <u>DESMOND CHUA</u>	DATE: <u>09/14/2026</u>
DRAWN: <u>SCOTT VARNEY</u>	DATE: <u>09/14/2026</u>
CHECKED: <u>SCHAUN VALDOVINOS</u>	DATE: <u>09/14/2026</u>



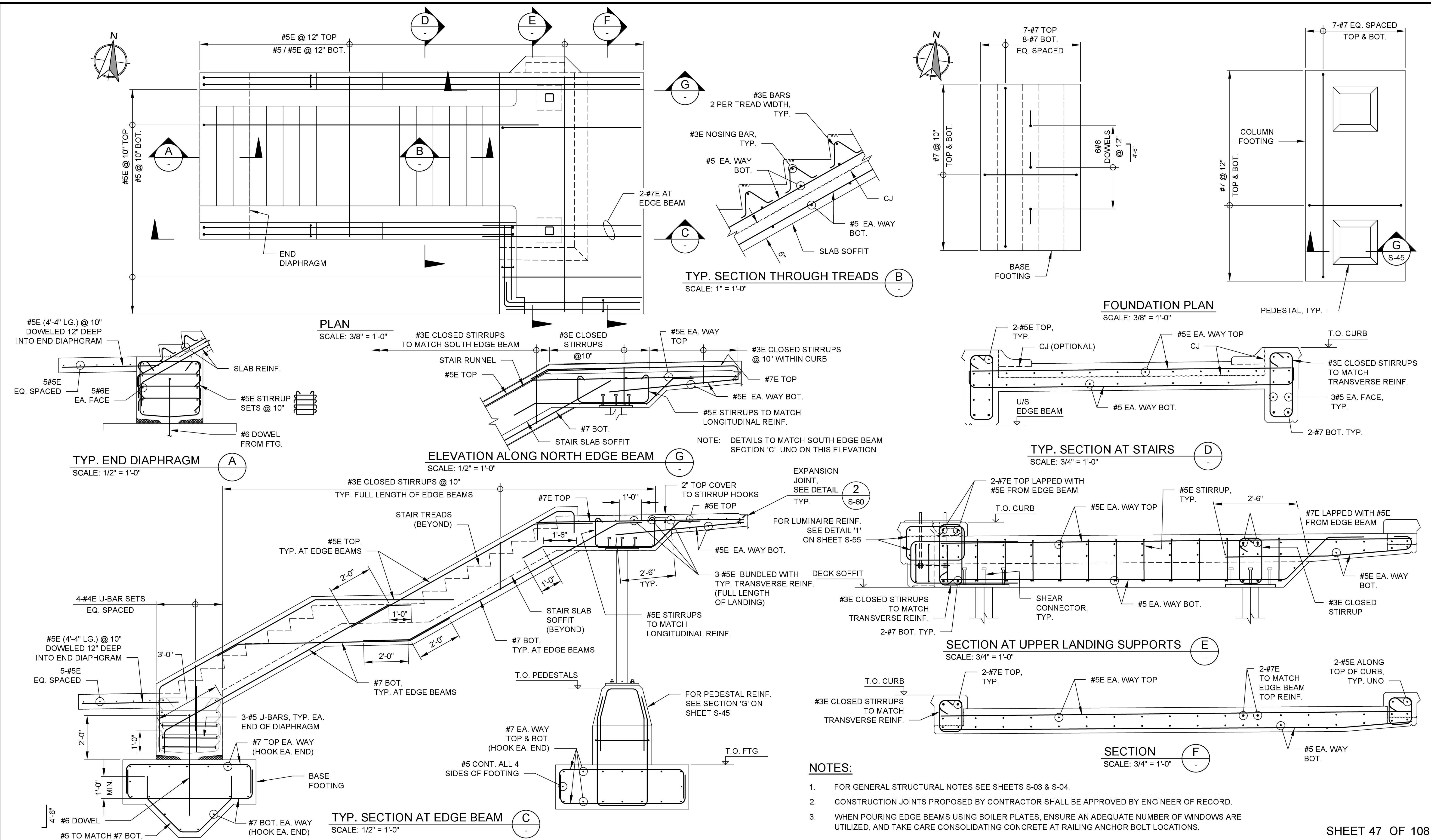
CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

WEST STAIRS

LAYOUT AND DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S46	
PROJECT No: 1262	
SHEET: S-46	REV: 0



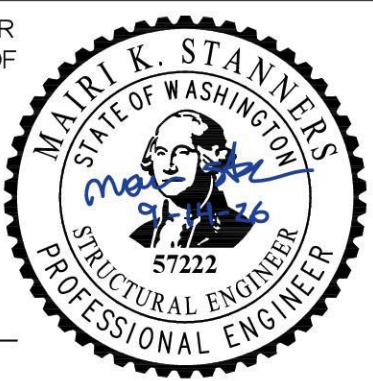
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CONSTRUCTION

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DESIGNED: DESMOND CHUA
DATE: 09/14/2026

DRAWN: SCOTT VARNEY
DATE: 09/14/2026

CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026

STRUCTURAL
DESIGN

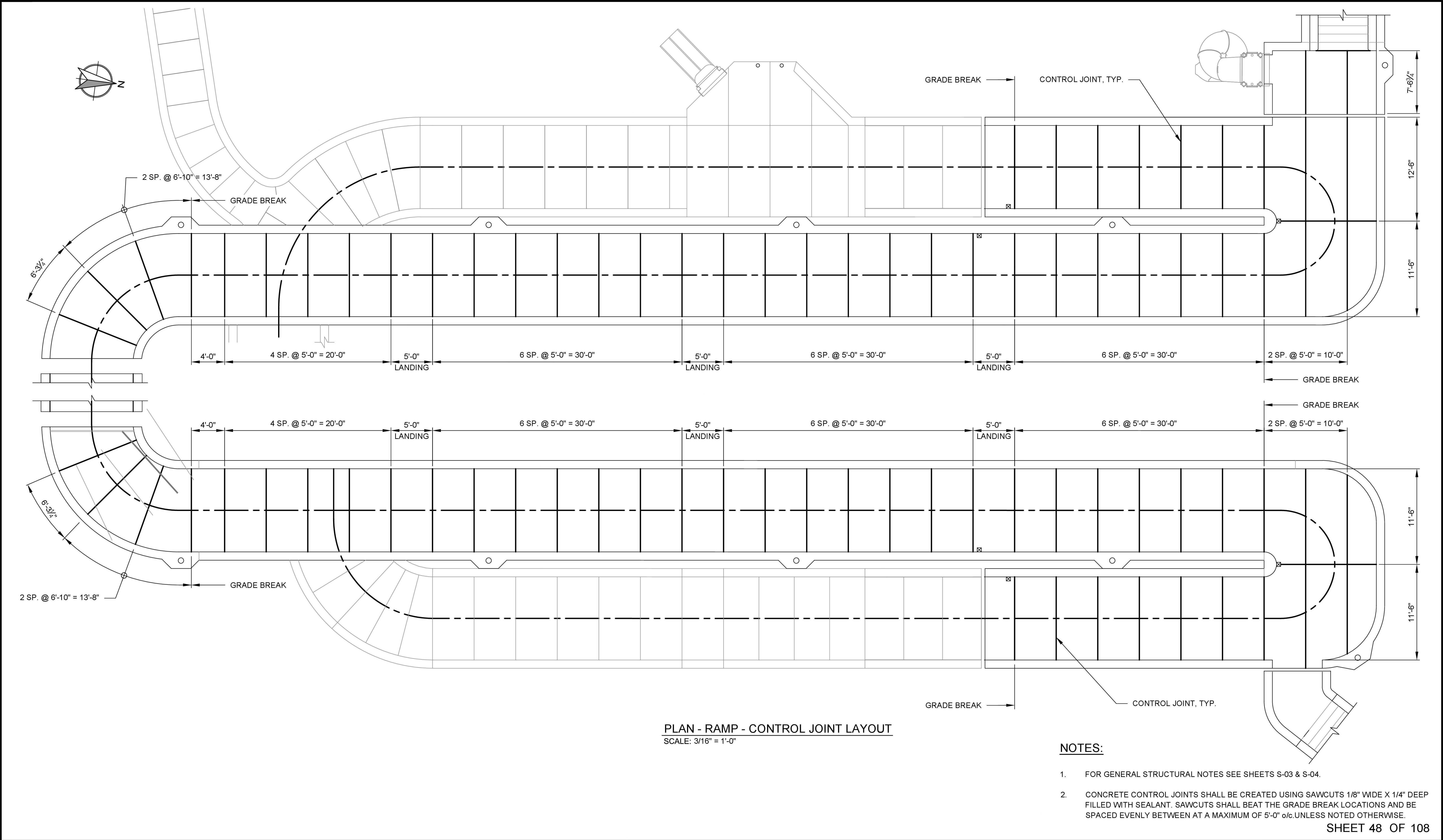


CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

WEST STAIRS
REINFORCEMENT

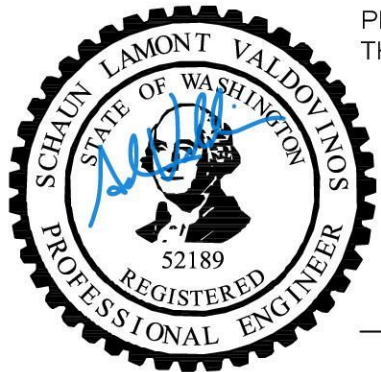
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S47	
PROJECT No:	
1262	
SHEET:	REV:
S-47	0



- NOTES:**
- 1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - 2. CONCRETE CONTROL JOINTS SHALL BE CREATED USING SAWCUTS 1/8" WIDE X 1/4" DEEP FILLED WITH SEALANT. SAWCUTS SHALL BEAT THE GRADE BREAK LOCATIONS AND BE SPACED EVENLY BETWEEN AT A MAXIMUM OF 5'-0" o/c. UNLESS NOTED OTHERWISE.

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CONSTRUCTION

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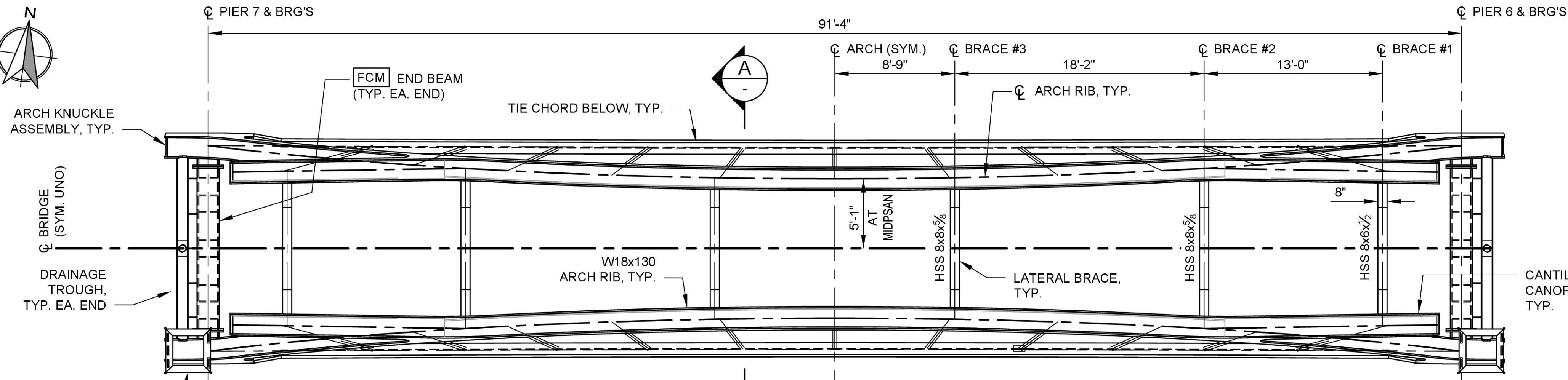
STRUCTURAL
DESIGN

DESIGNED: SCHAUN VALDOVINOS DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

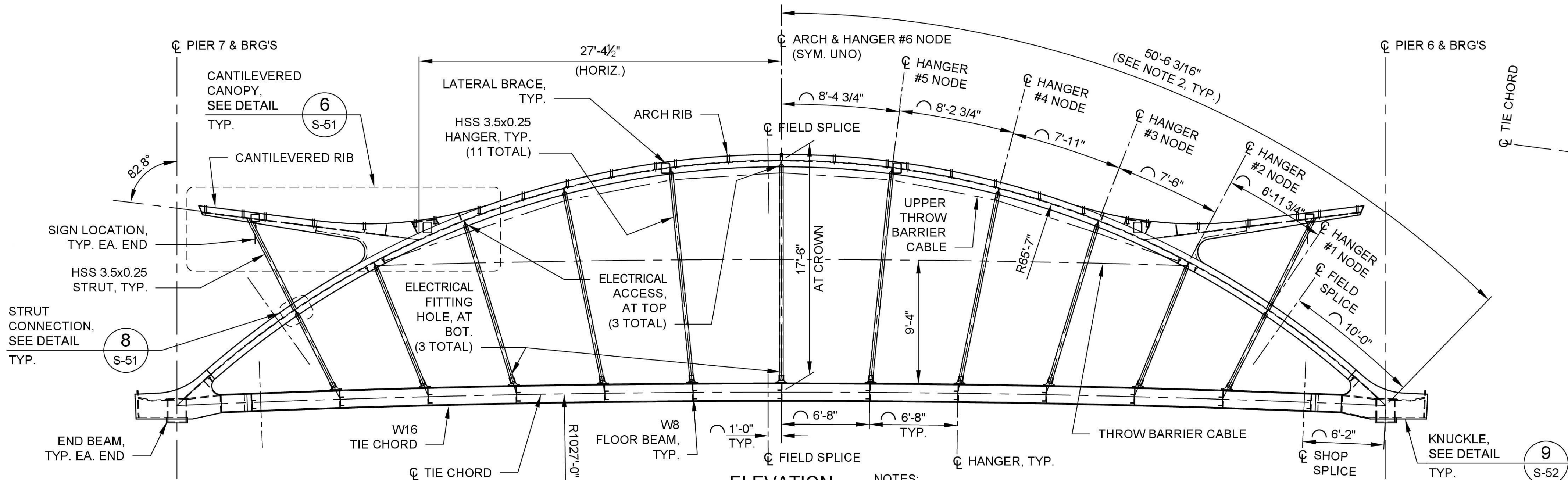


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAMP DECK SCORING LAYOUT

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S48	
PROJECT No: 1262	
SHEET: S-48	REV: 0

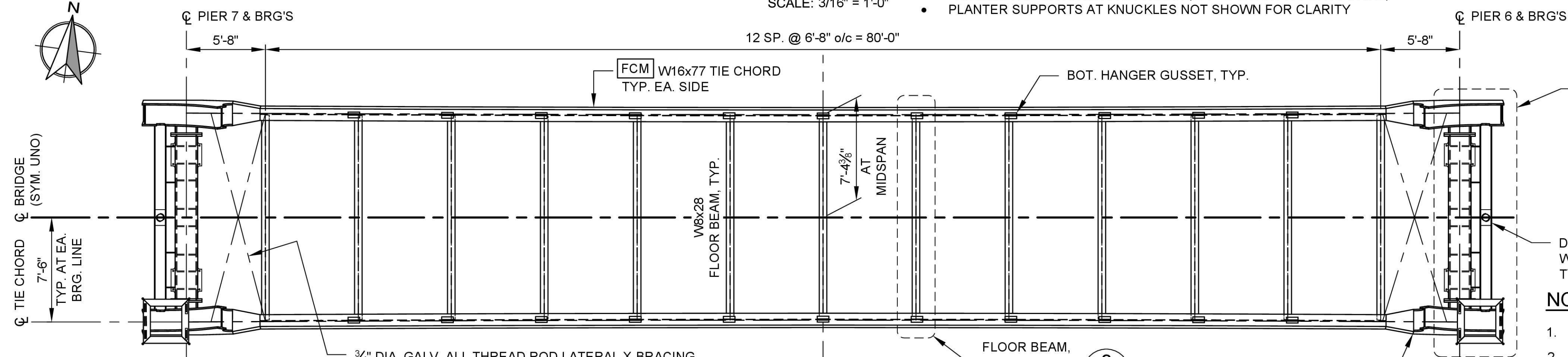
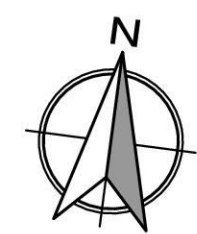


PLAN - ARCH RIBS
SCALE: 3/16" = 1'-0"



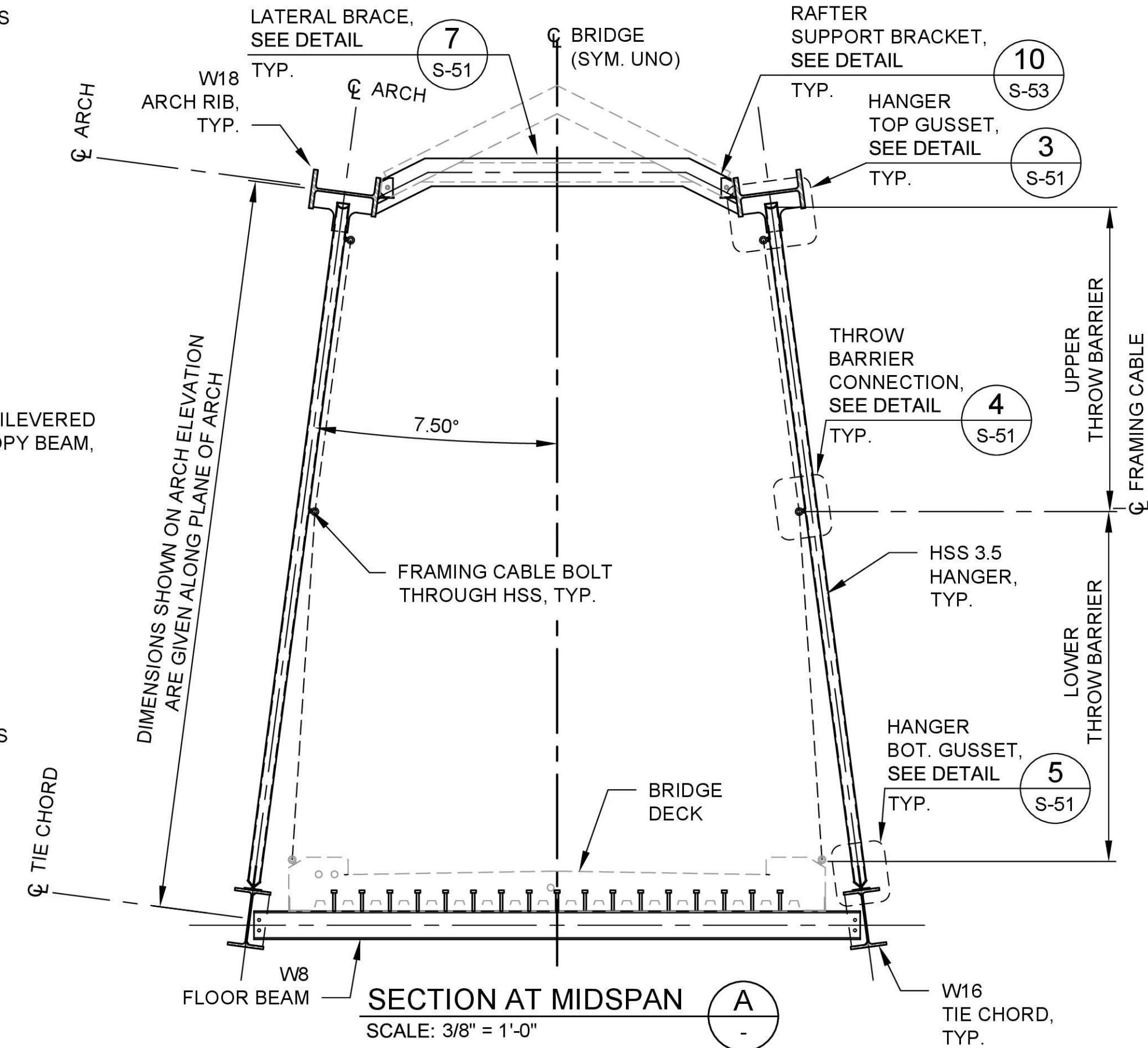
ELEVATION
SCALE: 3/16" = 1'-0"

- NOTES:
- ELEVATION IS GIVEN IN ARCH PLANE (SEE SECTION 'A' FOR DETAILS)
 - PLANTER SUPPORTS AT KNUCKLES NOT SHOWN FOR CLARITY

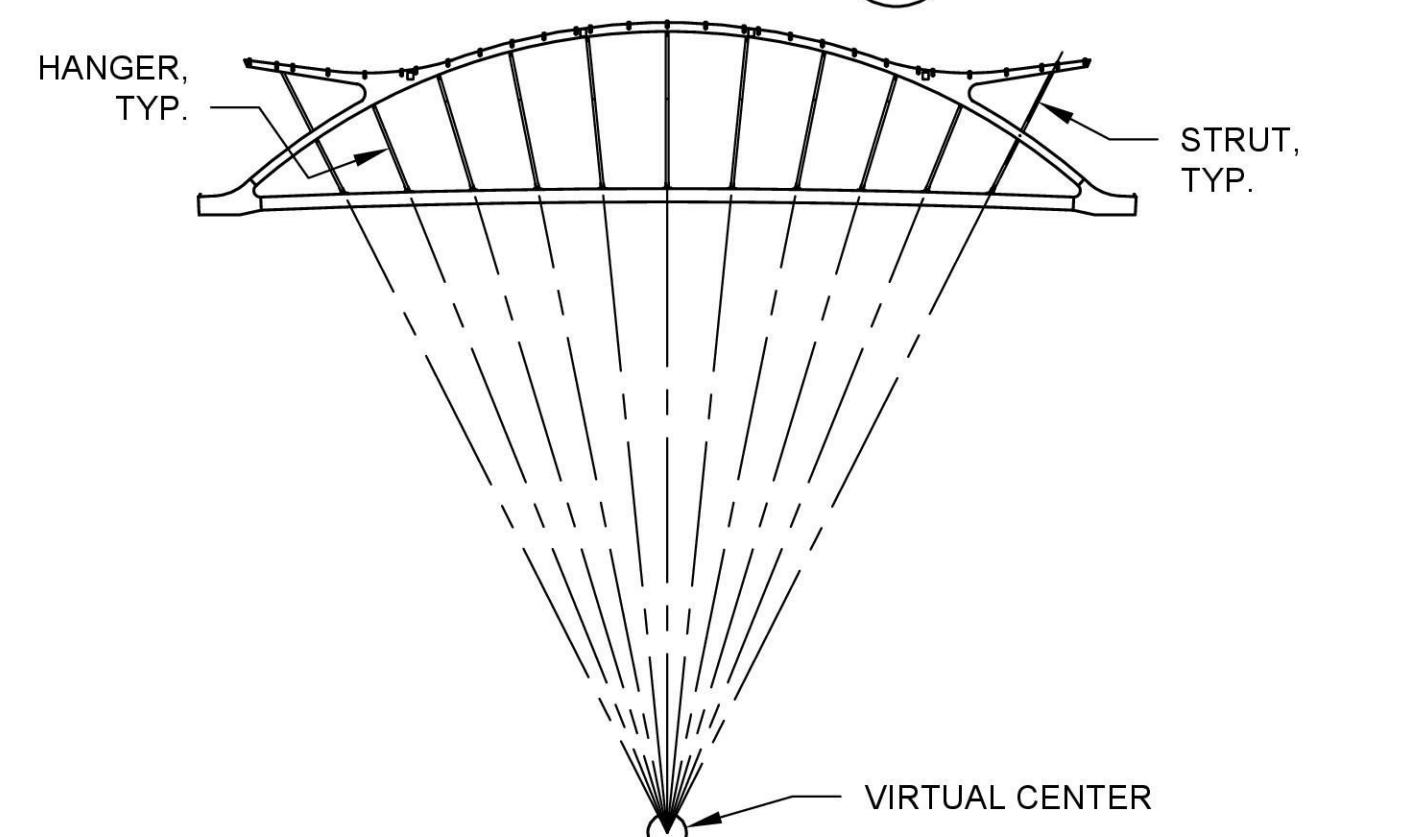


PLAN - TIE CHORD
SCALE: 3/16" = 1'-0"

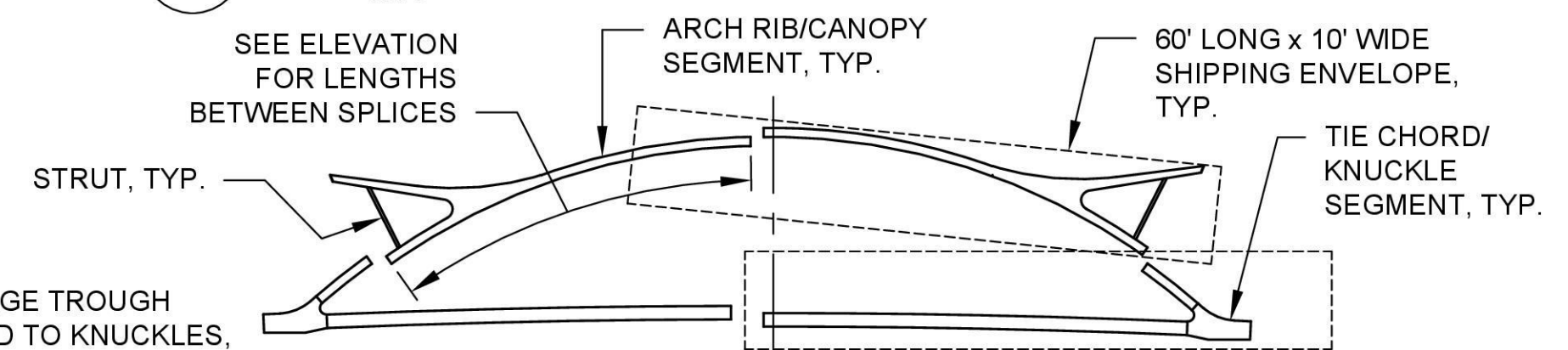
2
S-51



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



HANGER & STRUT ALIGNMENT SCHEMATIC
N.T.S.



ELEVATION - STEEL SPLICE SCHEMATIC
N.T.S.

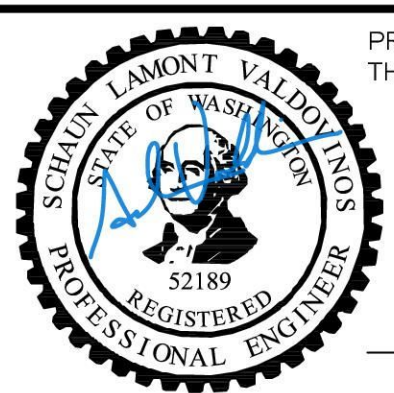
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- ALL DIMENSIONS SHOWN ON ELEVATION ARE GIVEN ALONG CENTERLINE OF CURVED ARCHES/TIE CHORDS UNO.
- ALL FIELD SPLICES IN ARCH RIB & TIE CHORD SHALL BE COMPLETE JOINT PENETRATION AND GROUND SMOOTH.

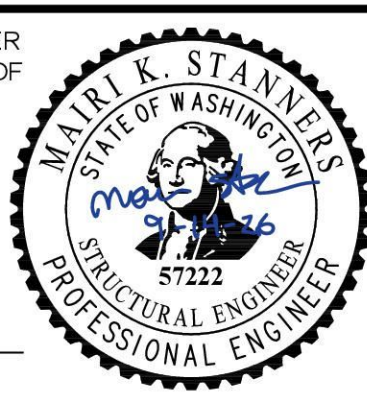
SHEET 49 OF 108

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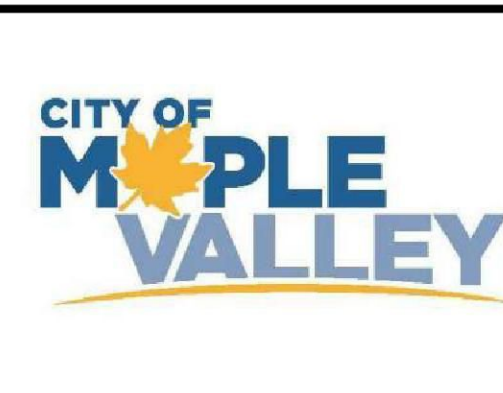
REVISIONS			
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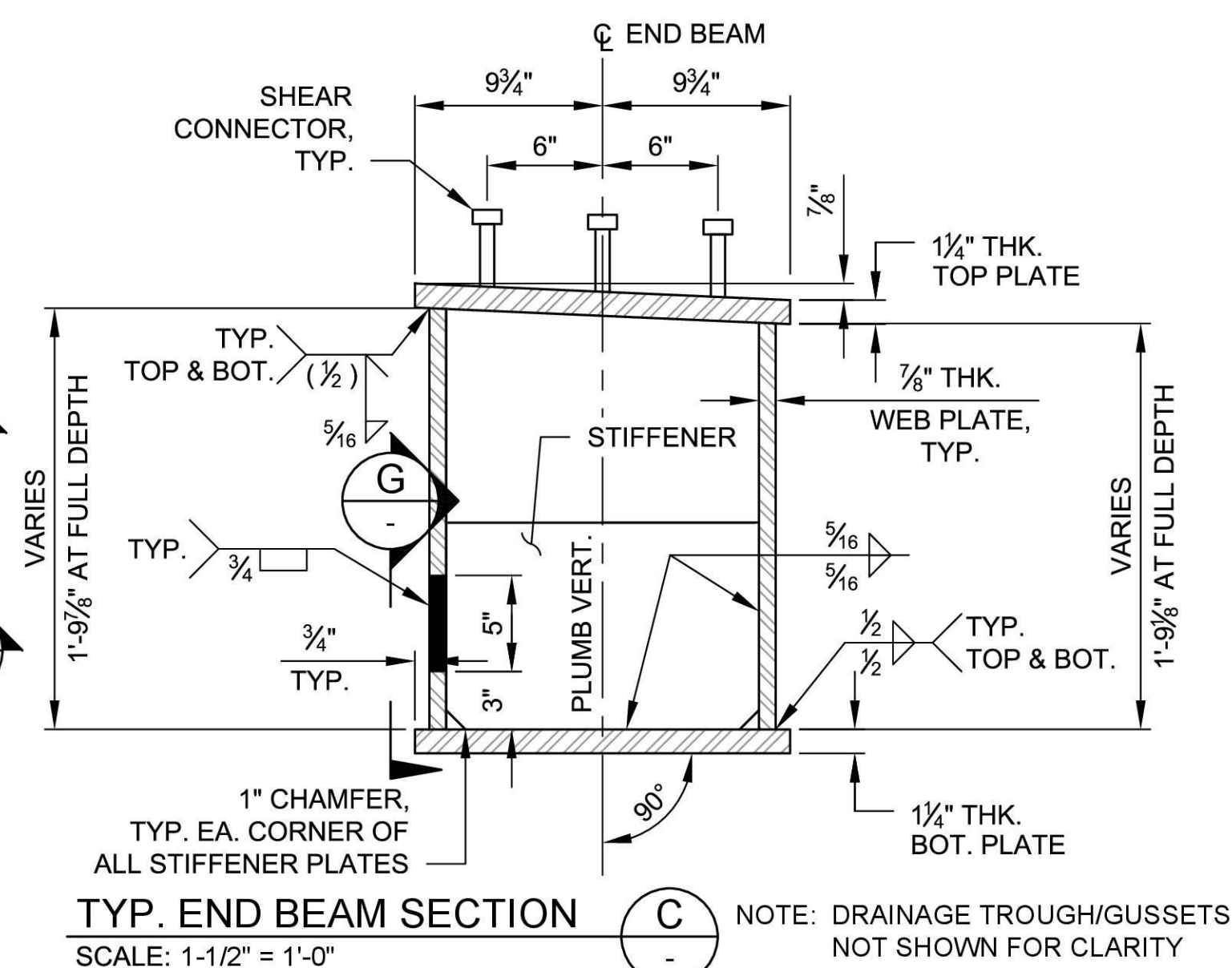


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DESIGN
DESIGNED: MAIRI STANNERS
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DRAWN: SCOTT VARNEY
DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026



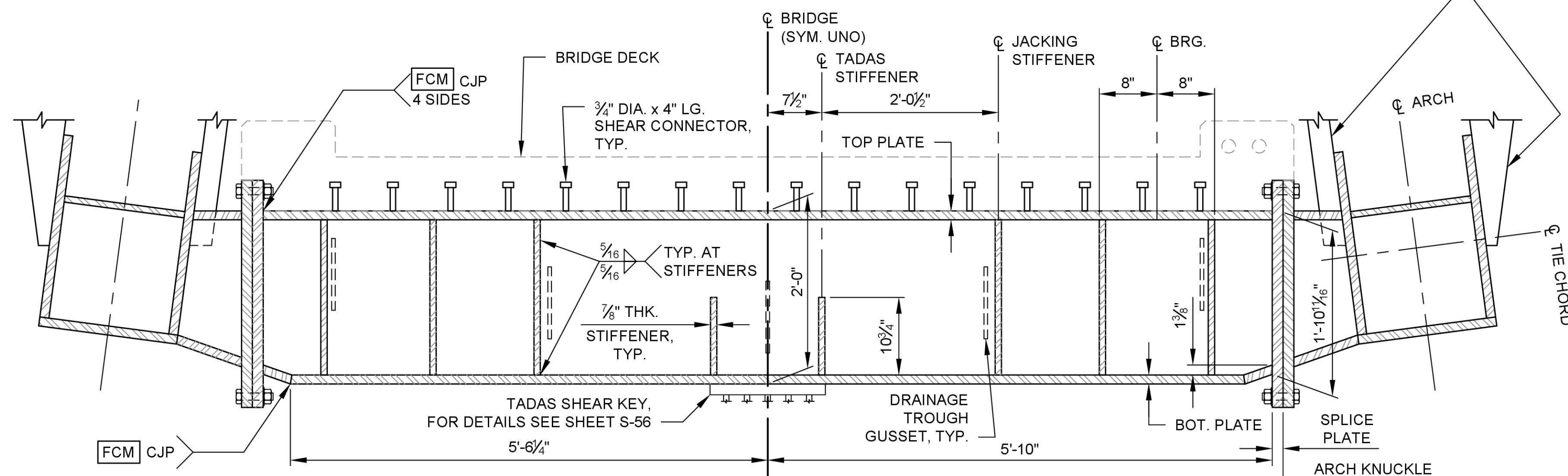
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ARCH DETAILS
SHEET 1

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S-49_S54	
PROJECT No:	
1262	
SHEET:	REV:
S-49	0

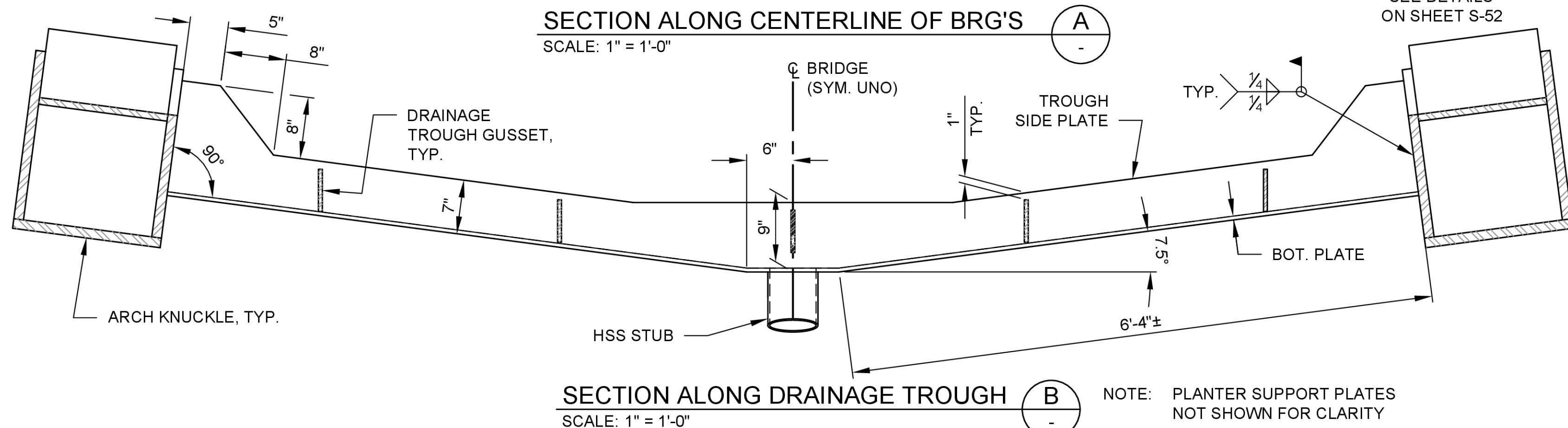


- ## NOTES:
1. FOR GENERAL STRUCTURAL NOTES
SEE SHEETS S-03 & S-04.
 2. ALL DRAINAGE TROUGH GUSSET
PLATES HAVE THE SAME GEOMETRY.

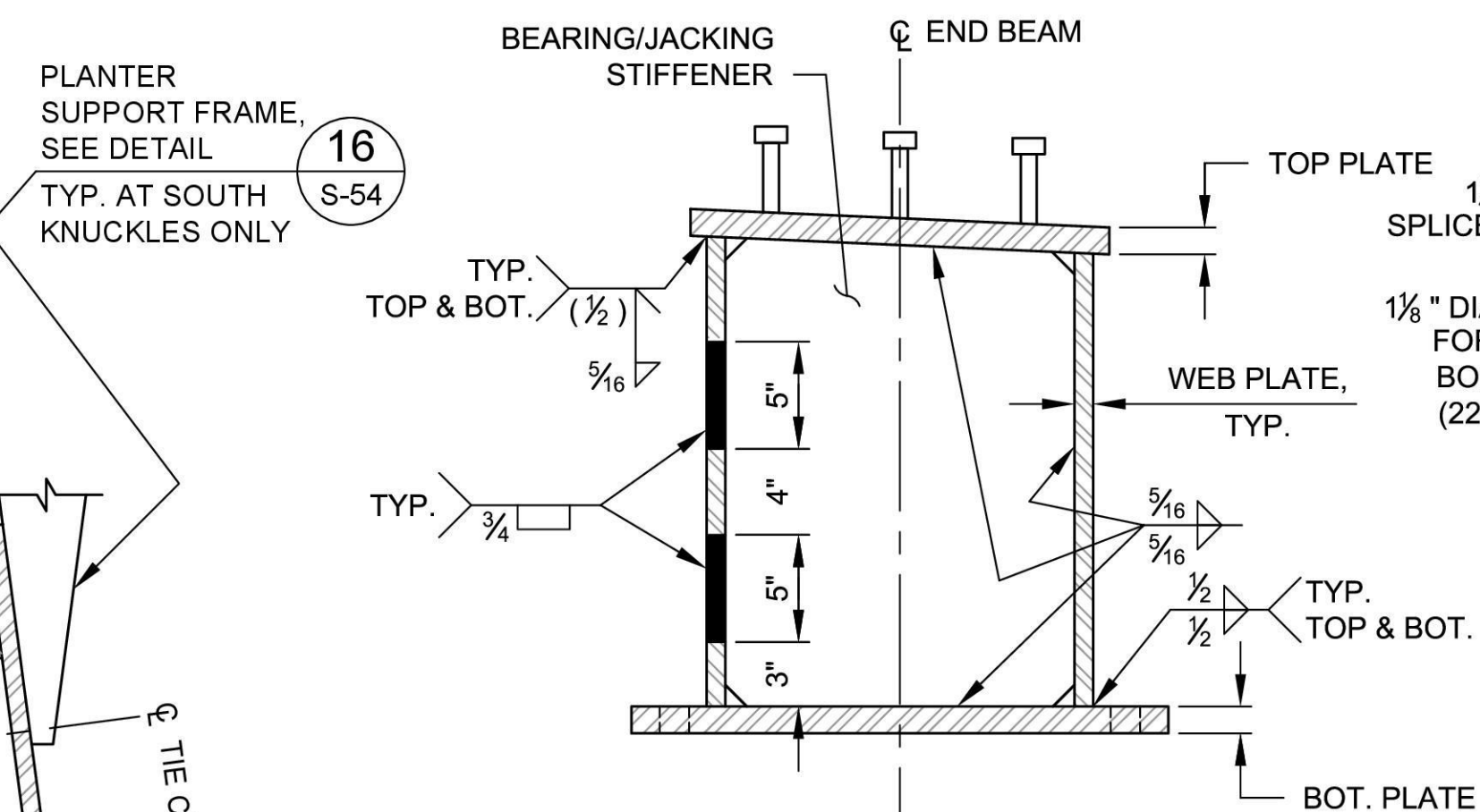
TYP. END BEAM DETAIL 1 NOTE: DRAINAGE TROUGH NOT SHOWN
SCALE: 1" = 1'-0" S-49 FOR CLARITY



SECTION ALONG CENTERLINE OF BRG'S
SCALE: 1" = 1'-0"



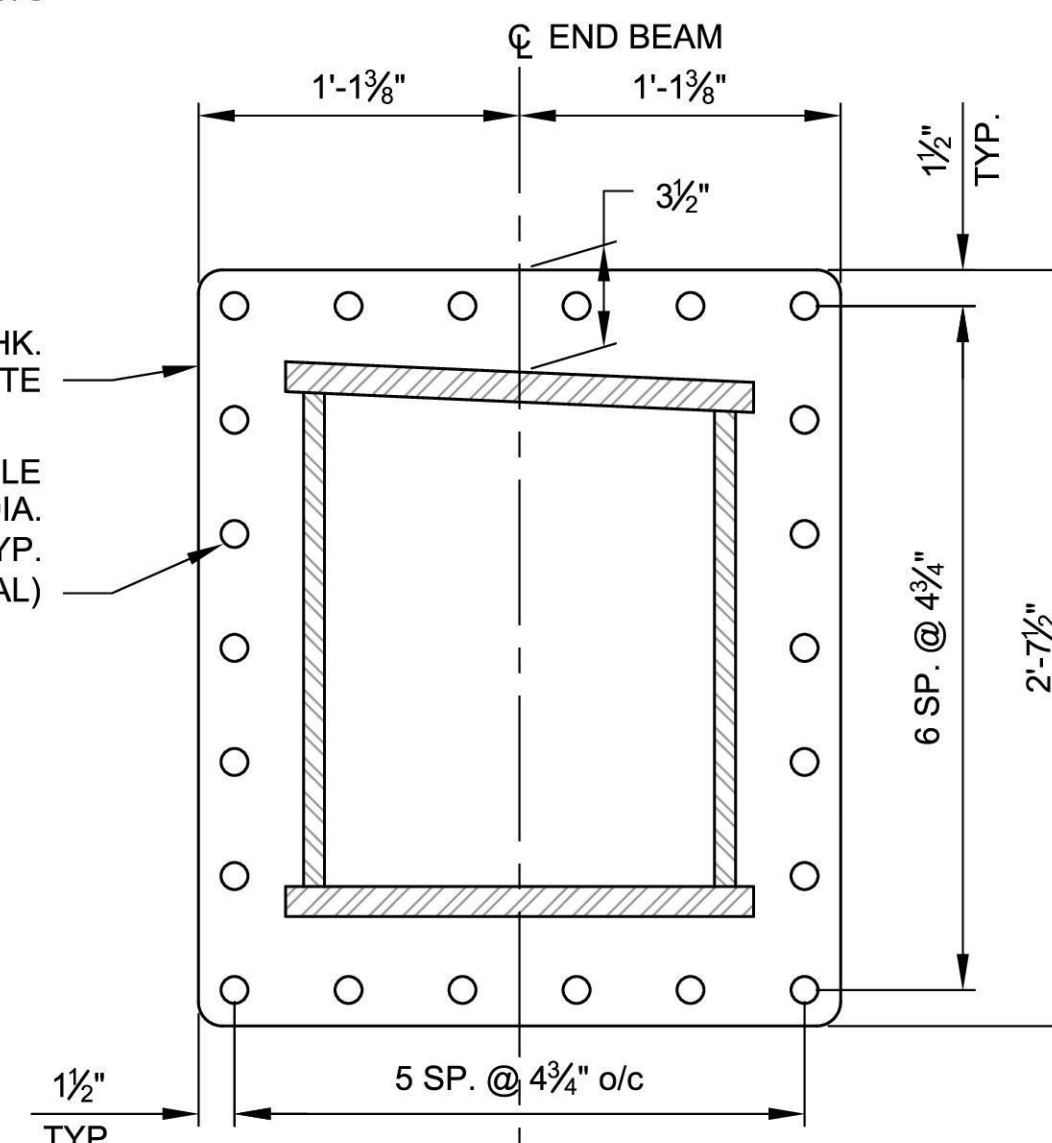
SECTION ALONG DRAINAGE TROUGH (B) NOTE: PLANTER SUPPORT PLATES
SCALE: 1" = 1'-0" NOT SHOWN FOR CLARITY



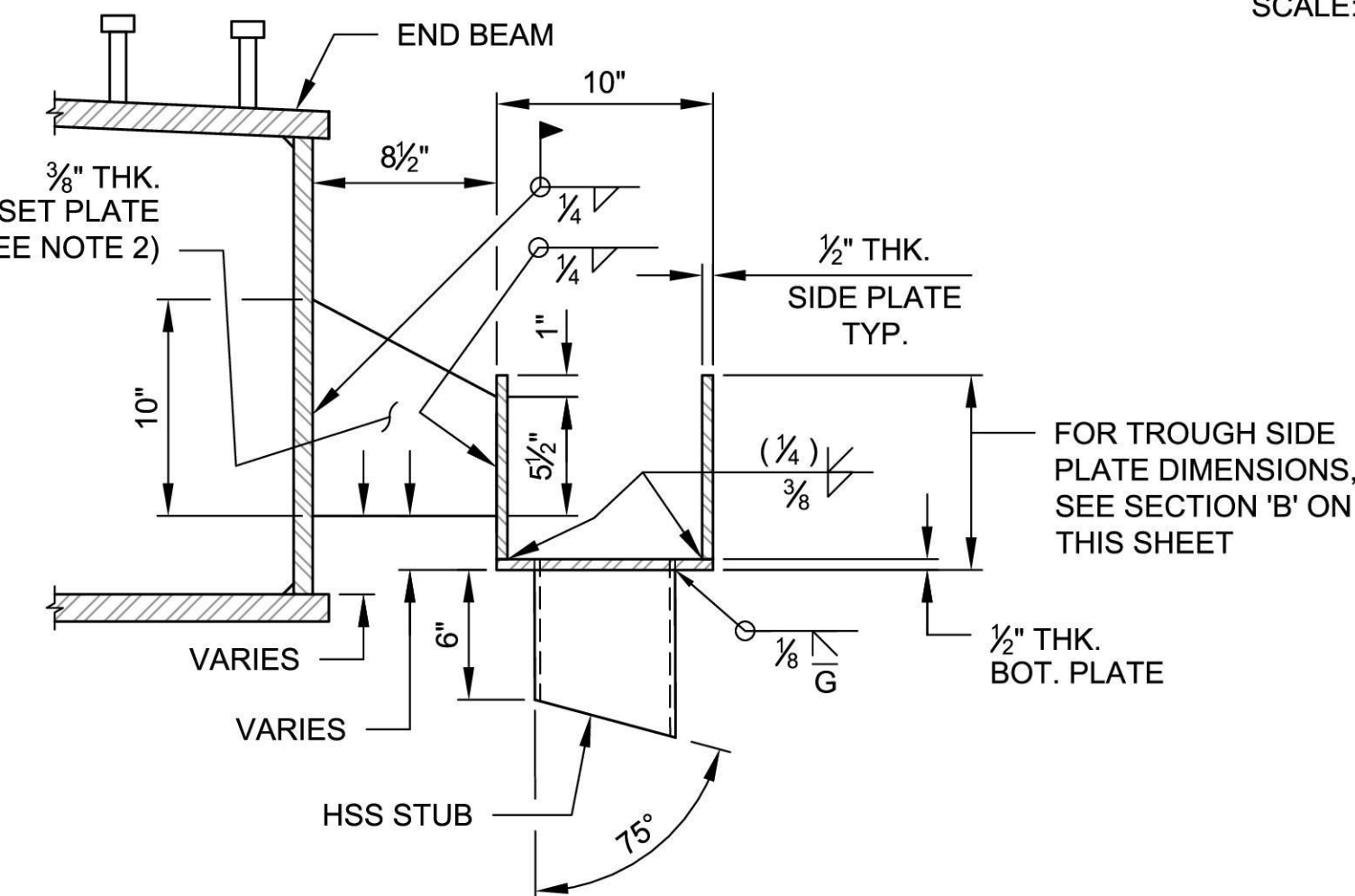
NOTE: DRAINAGE TROUGH/GUSSETS NOT SHOWN FOR CLARITY

TYP. SECTION AT JACKING/BEARING STIFFENER

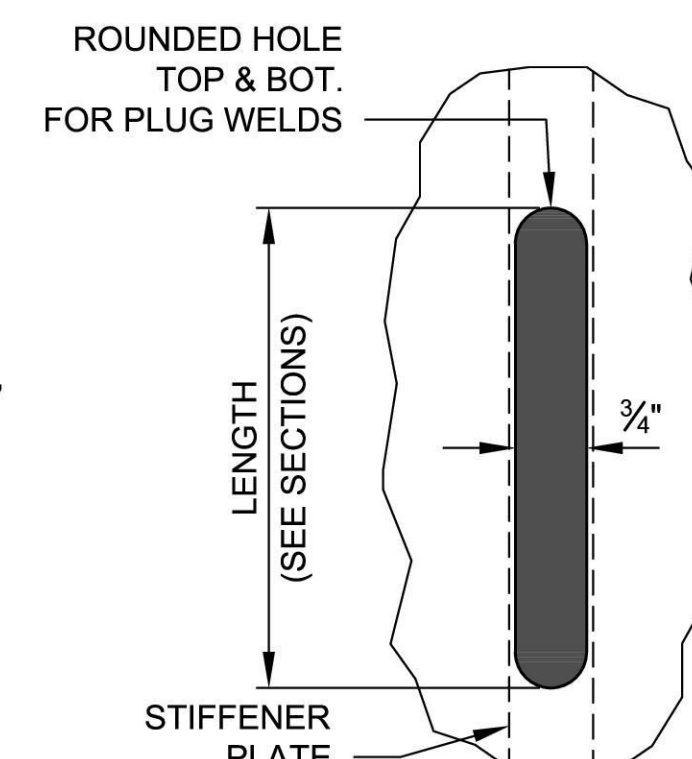
SCALE: 1-1/2" = 1'-0"



TYP. SECTION AT SPLICE PLATE
SCALE: 1-1/2" = 1'-0"



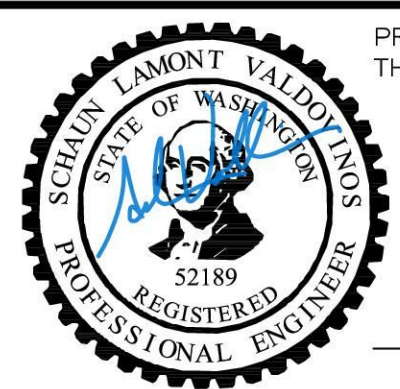
TYP. SECTION AT DRAINAGE TROUGH
SCALE: 1-1/2" = 1'-0"



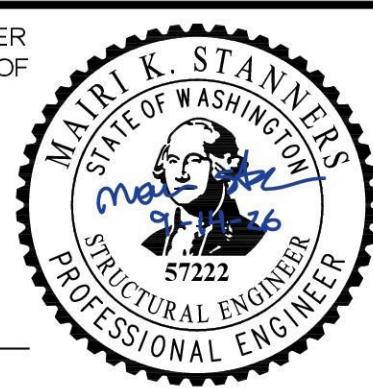
SECTION - TYP. SLOT WELD
SCALE: 1-1/2" = 1'-0"

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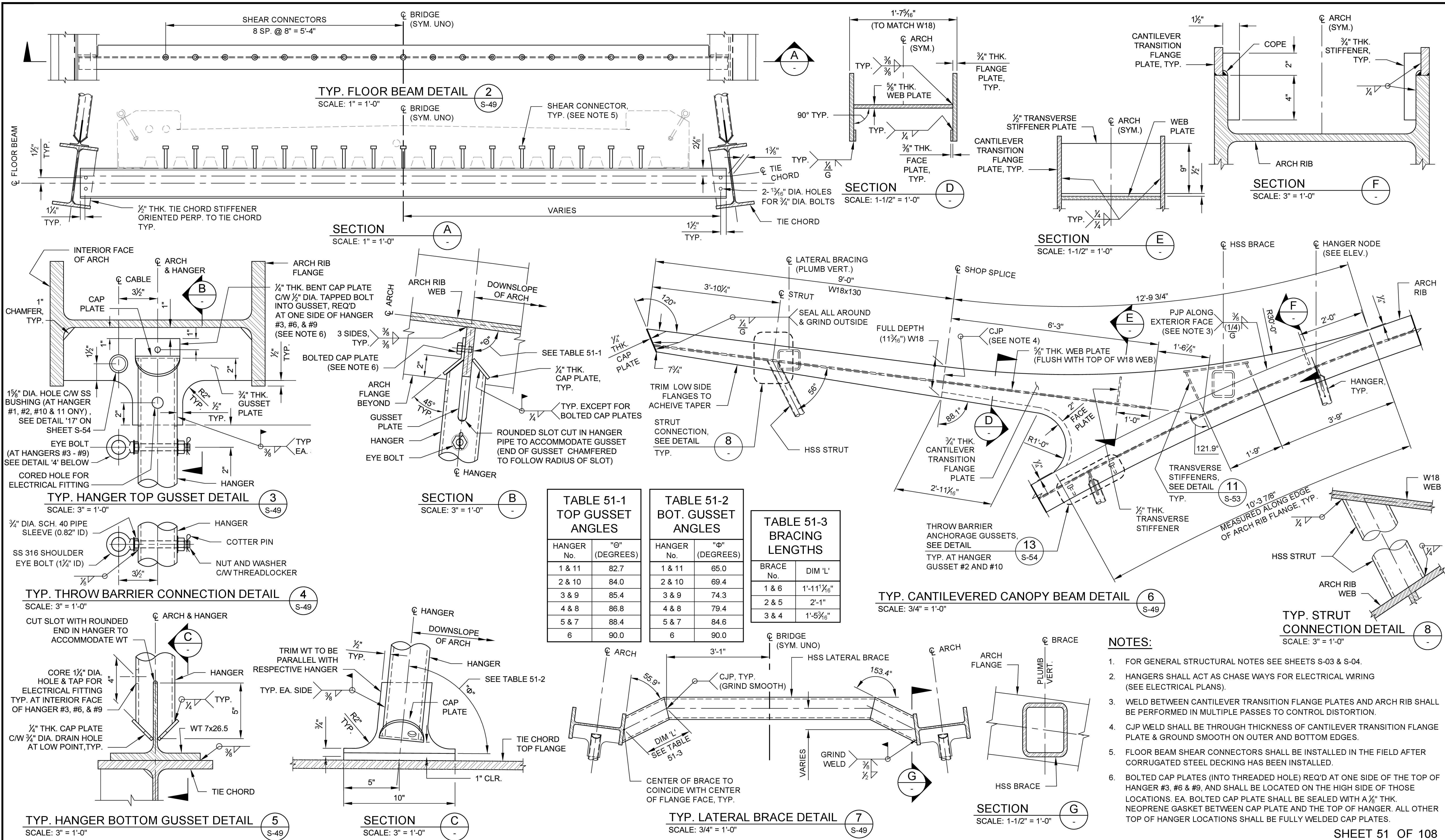
STRUCTURAL DESIGN

DESIGNED: MAIRI STANNERS DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ARCH DETAILS
SHEET 2

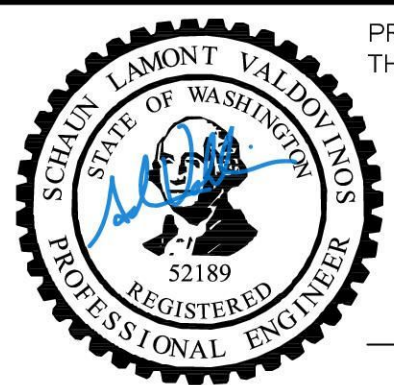
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S-49_S54	
PROJECT No: 1262	
SHEET: S-50	REV: 0



SHEET 51 OF 108

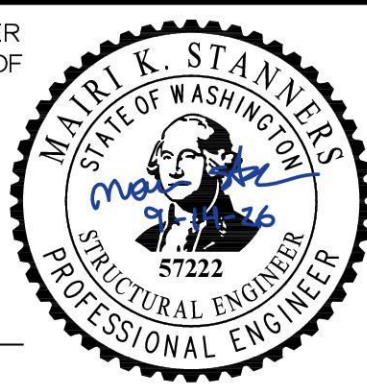
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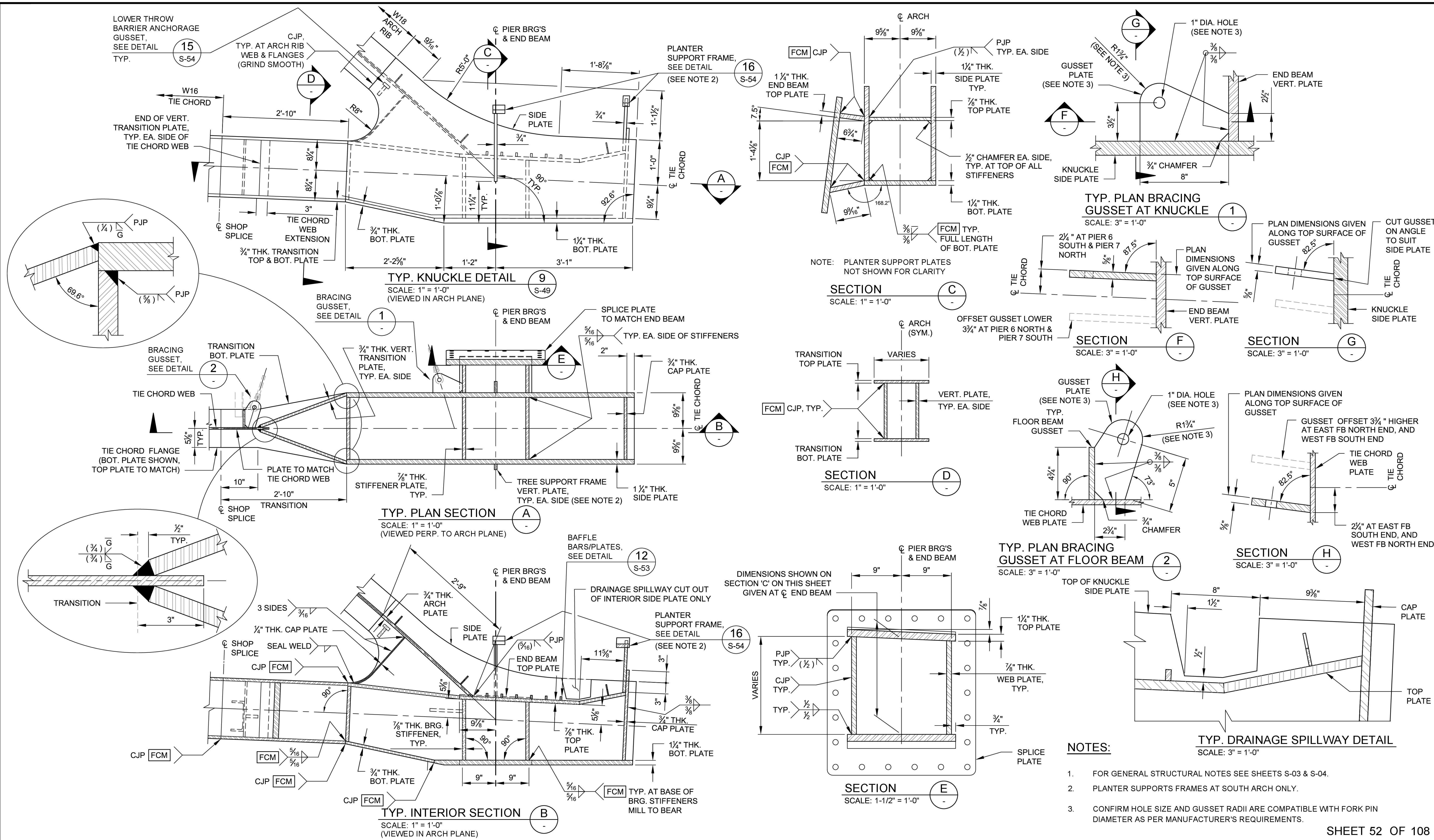
STRUCTURAL
DESIGN

DESIGNED: MAIRI STANNERS DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ARCH DETAILS
SHEET 3

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S-49_S54	
PROJECT No:	
1262	
SHEET:	REV:
S-51	0



- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - PLANTER SUPPORTS FRAMES AT SOUTH ARCH ONLY.
 - CONFIRM HOLE SIZE AND GUSSET RADII ARE COMPATIBLE WITH FORK PIN DIAMETER AS PER MANUFACTURER'S REQUIREMENTS.

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CONSTRUCTION

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CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

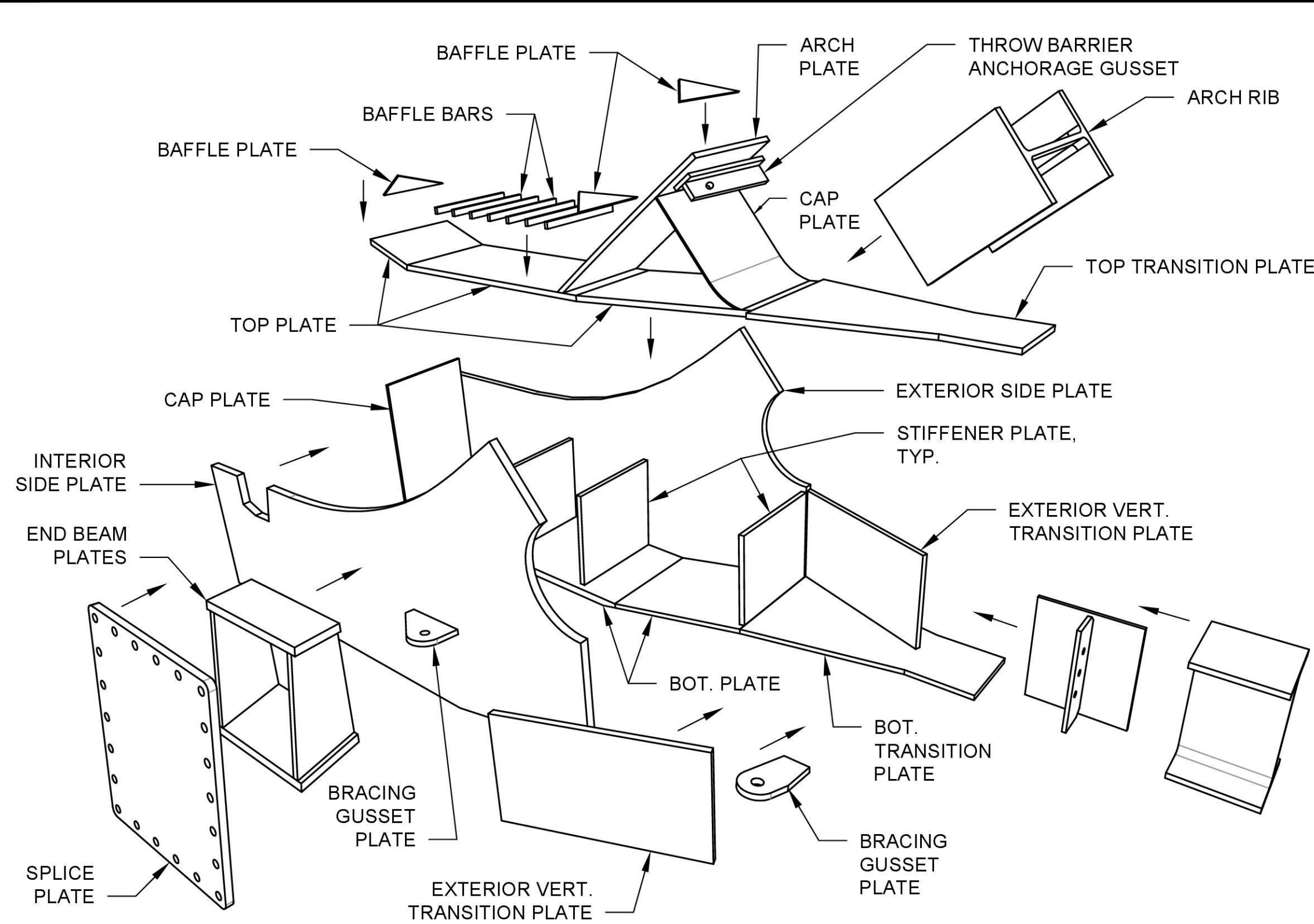


CITY OF MAPLE VALLEY

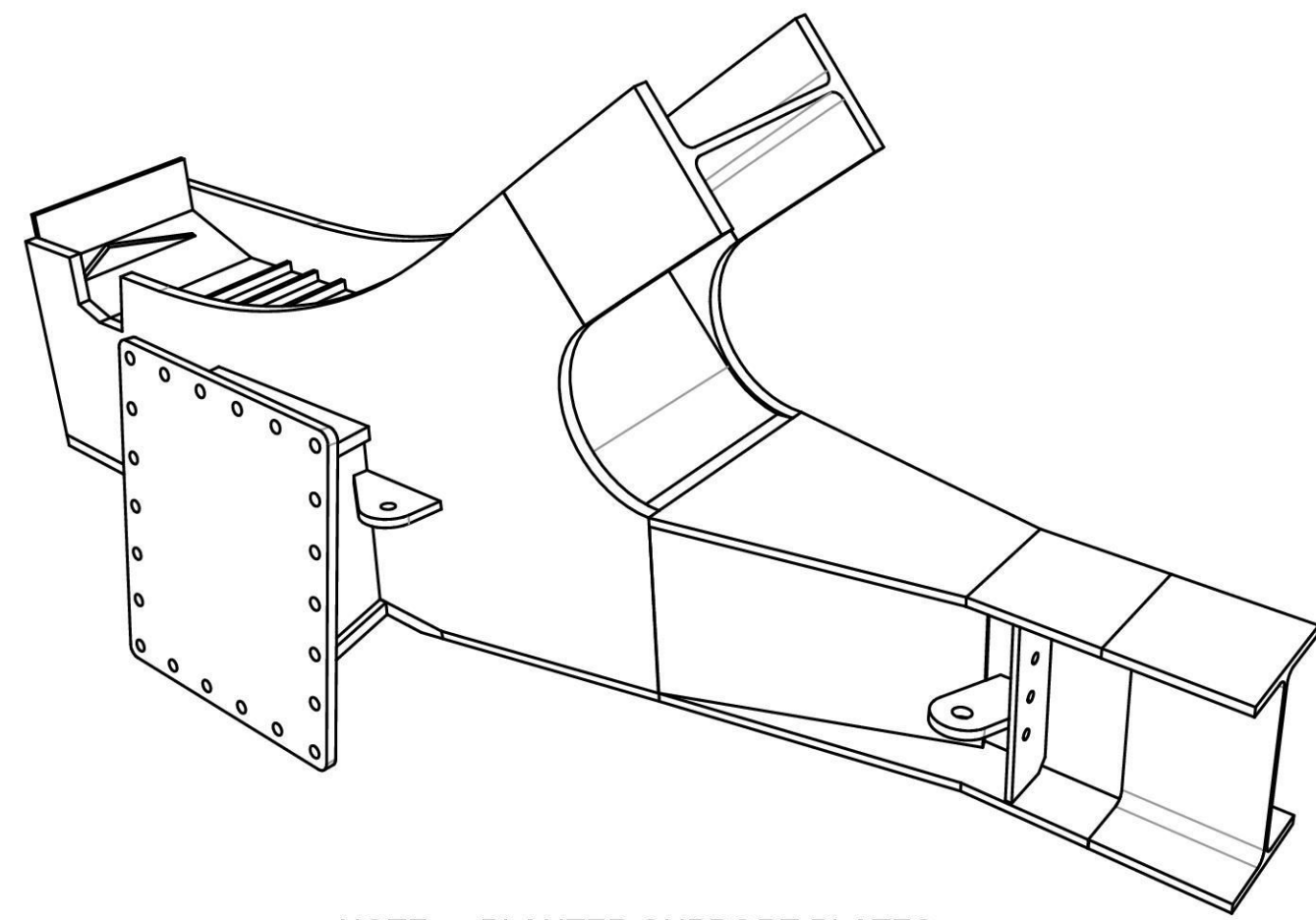
T-57 SR 169 PEDESTRIAN BRIDGE

ARCH DETAILS
SHEET 4

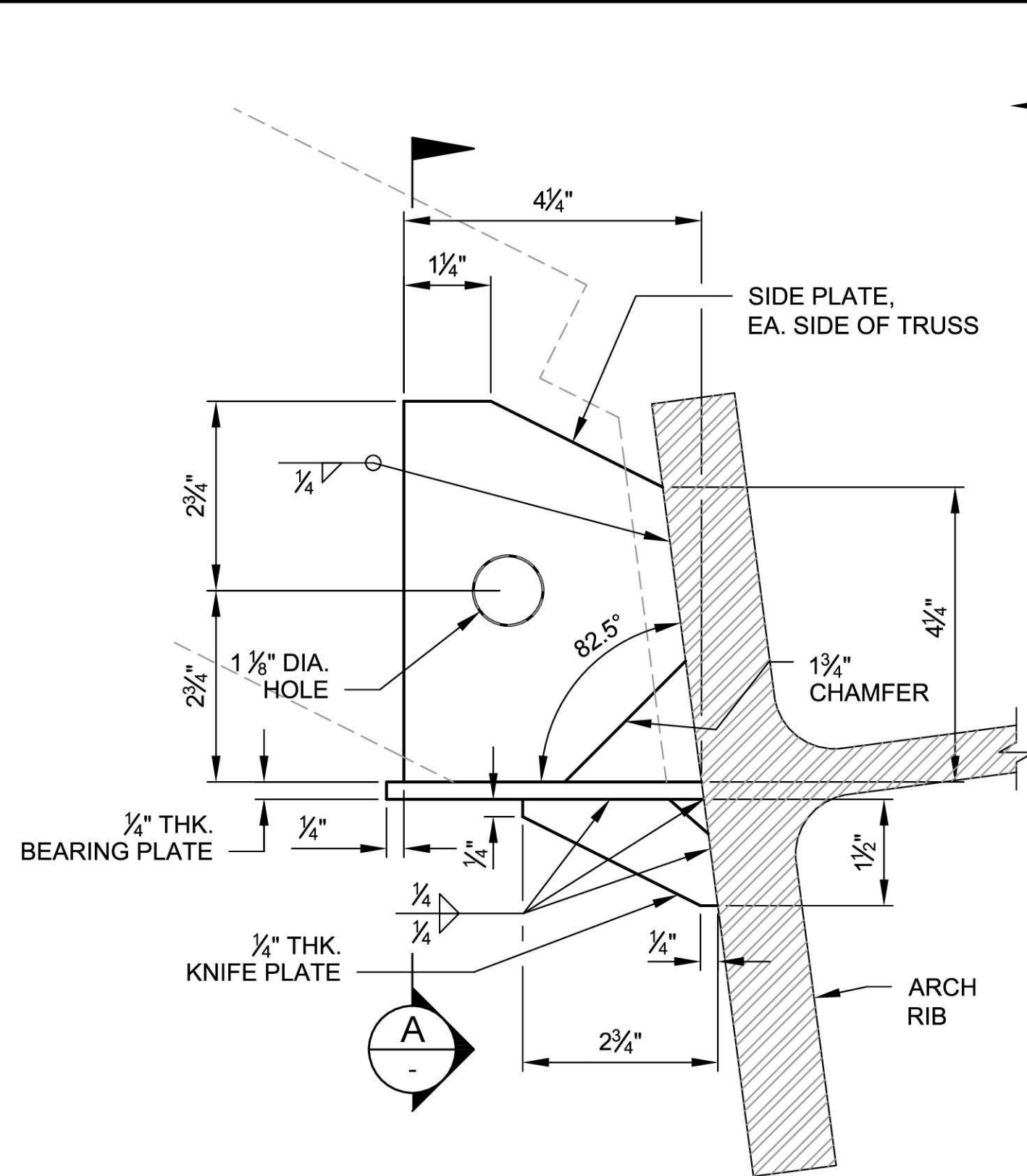
SCALE: AS SHOWN	
FILENAME: 1282-DWG-S-49_S54	
PROJECT No:	
1262	
SHEET:	REV:
S-52	0



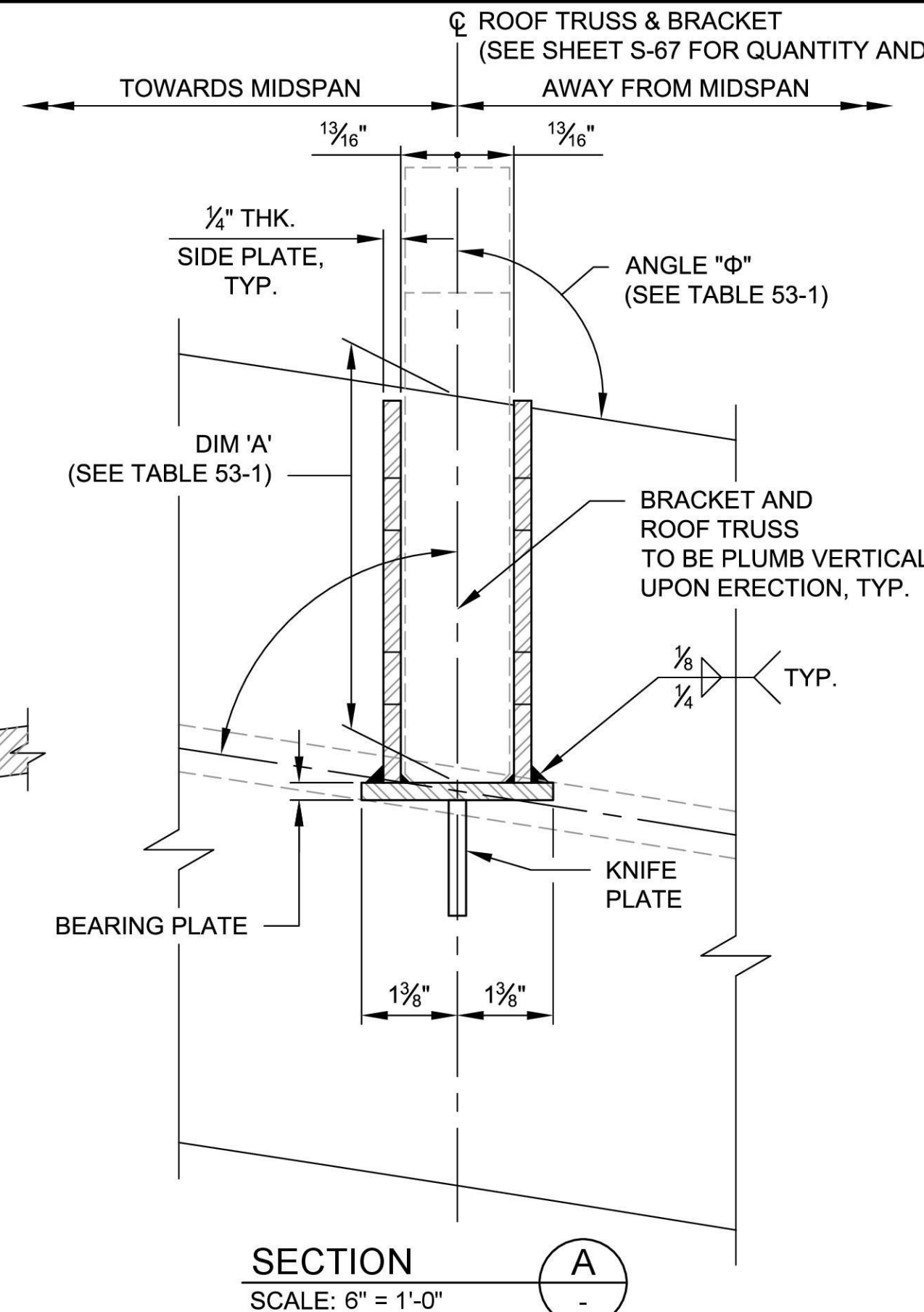
NOTE: PLANTER SUPPORT PLATES NOT SHOWN FOR CLARITY
ARCH KNUCKLE - EXPLODED
 N.T.S.



NOTE: PLANTER SUPPORT PLATES NOT SHOWN FOR CLARITY
ARCH KNUCKLE - ASSEMBLY
 N.T.S.

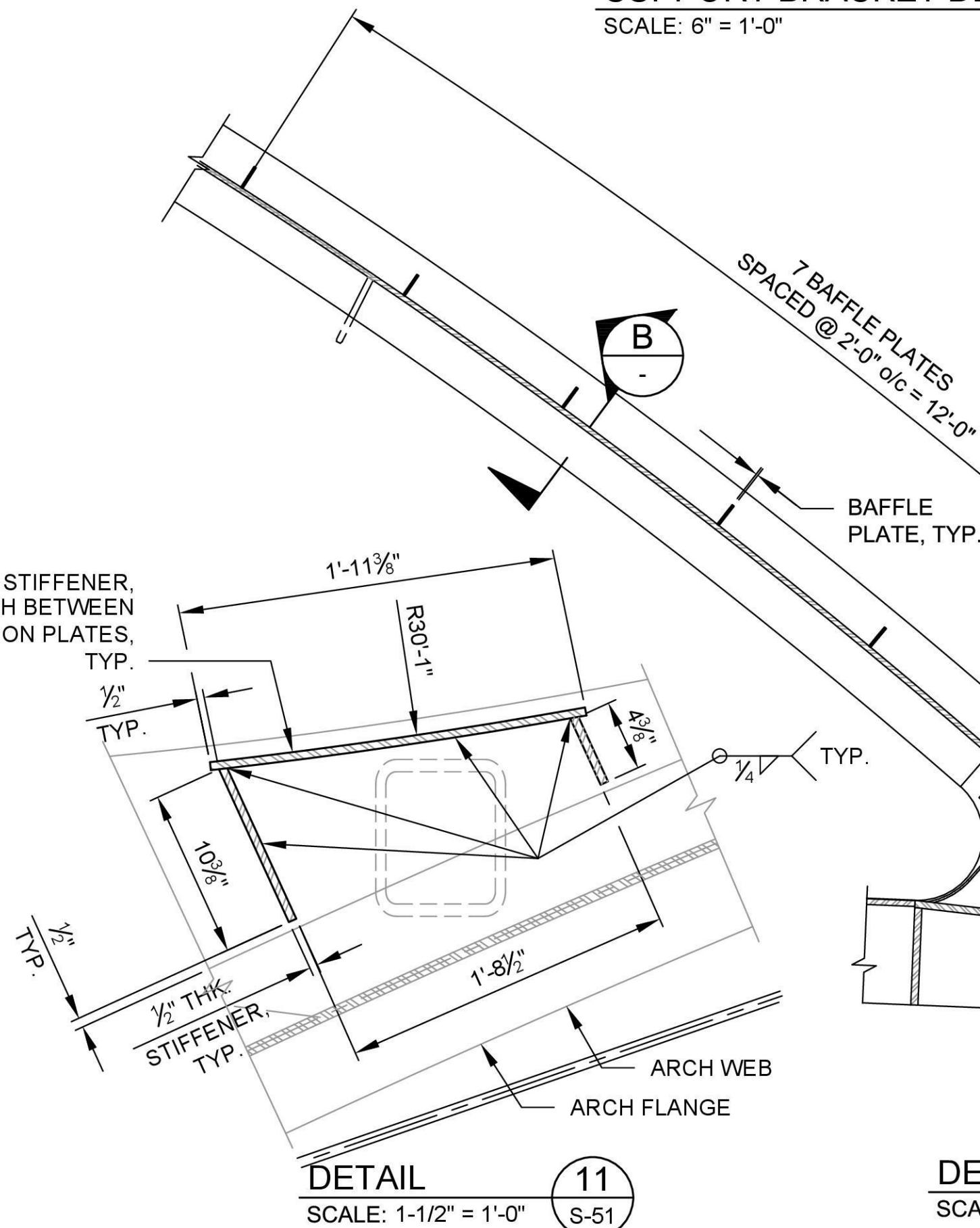


TYP. RAFTER SUPPORT BRACKET DETAIL 10
 SCALE: 6" = 1'-0"

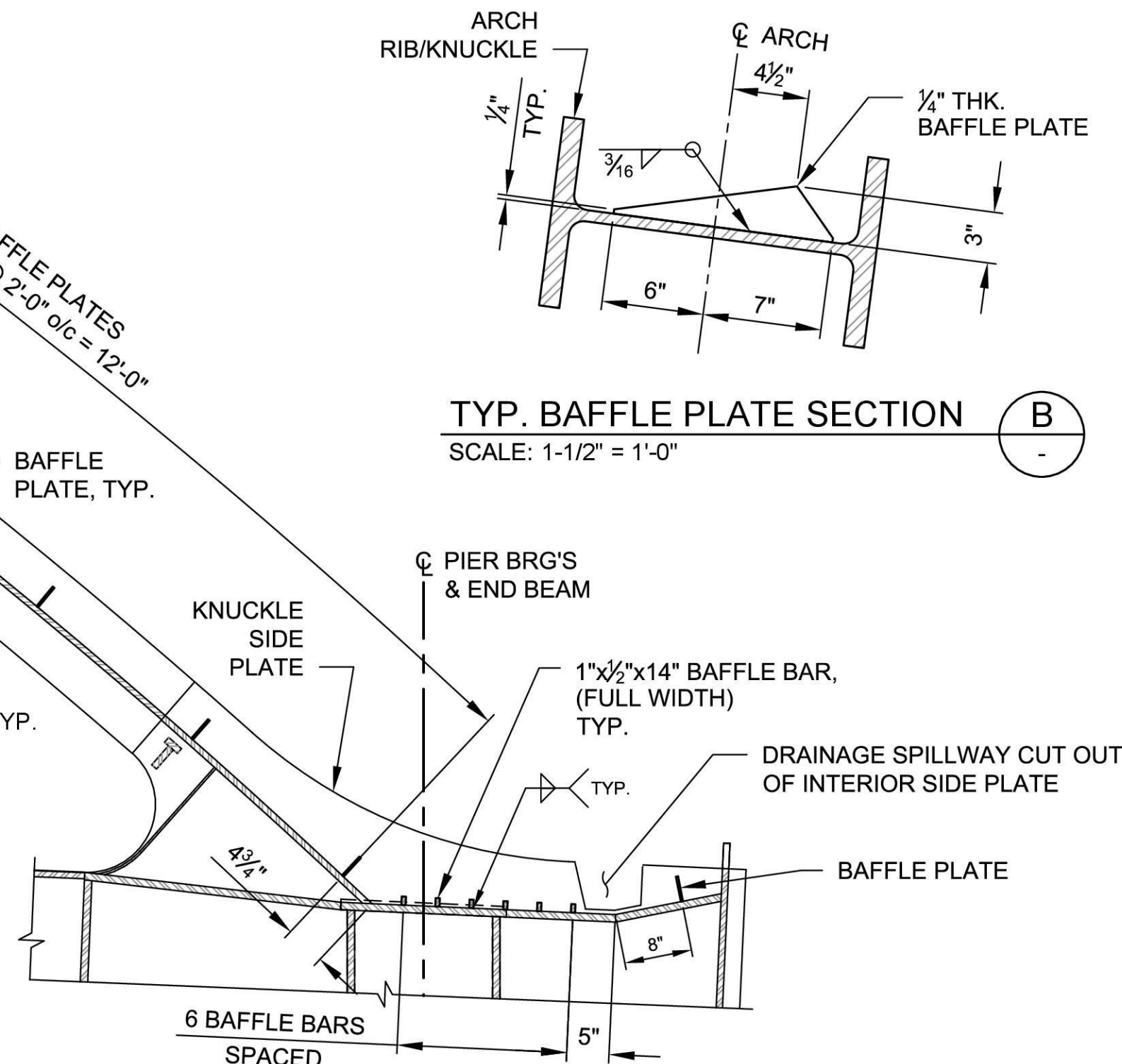


SECTION A
 SCALE: 6" = 1'-0"

TABLE 53-1 ROOF TRUSS SUPPORT BRACKET LOCATIONS		
RAFTER No.	DIM 'A'	"Φ" (DEGREES)
R1 & R29	5 5/16"	82.8
R2 & R28	5 5/16"	82.8
R3 & R27	5 5/16"	82.8
R4 & R26	5 5/16"	82.8
R5 & R25	5 5/16"	0.0
R6 & R24	5 5/16"	97.0
R7 & R23	5 5/16"	100.2
R8 & R22	5 5/16"	106.4
R9 & R21	5 5/16"	107.2
R10 & R20	5 5/16"	104.2
R11 & R19	5 5/16"	101.2
R12 & R18	5 5/16"	98.3
R13 & R17	5 5/16"	97.0
R14 & R16	5 5/16"	93.5
R15	5 5/16"	0.0



DETAIL 11
 SCALE: 1-1/2" = 1'-0"



TYP. BAFFLE PLATE SECTION B
 SCALE: 1-1/2" = 1'-0"

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - STUB PLATE SHALL MATCH DIMENSIONS OF COVER PLATE AND BE A MINIMUM DEPTH OF 1".
 - COVER PLATE SHALL BE 3/16" THK. C/W RIM GASKET BETWEEN IT AND STUB PLATE. BACKSIDE OF COVER PLATE SHALL BE TETHERED WITH A SLACK CABLE TO THE INSIDE OF HANGER.

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REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



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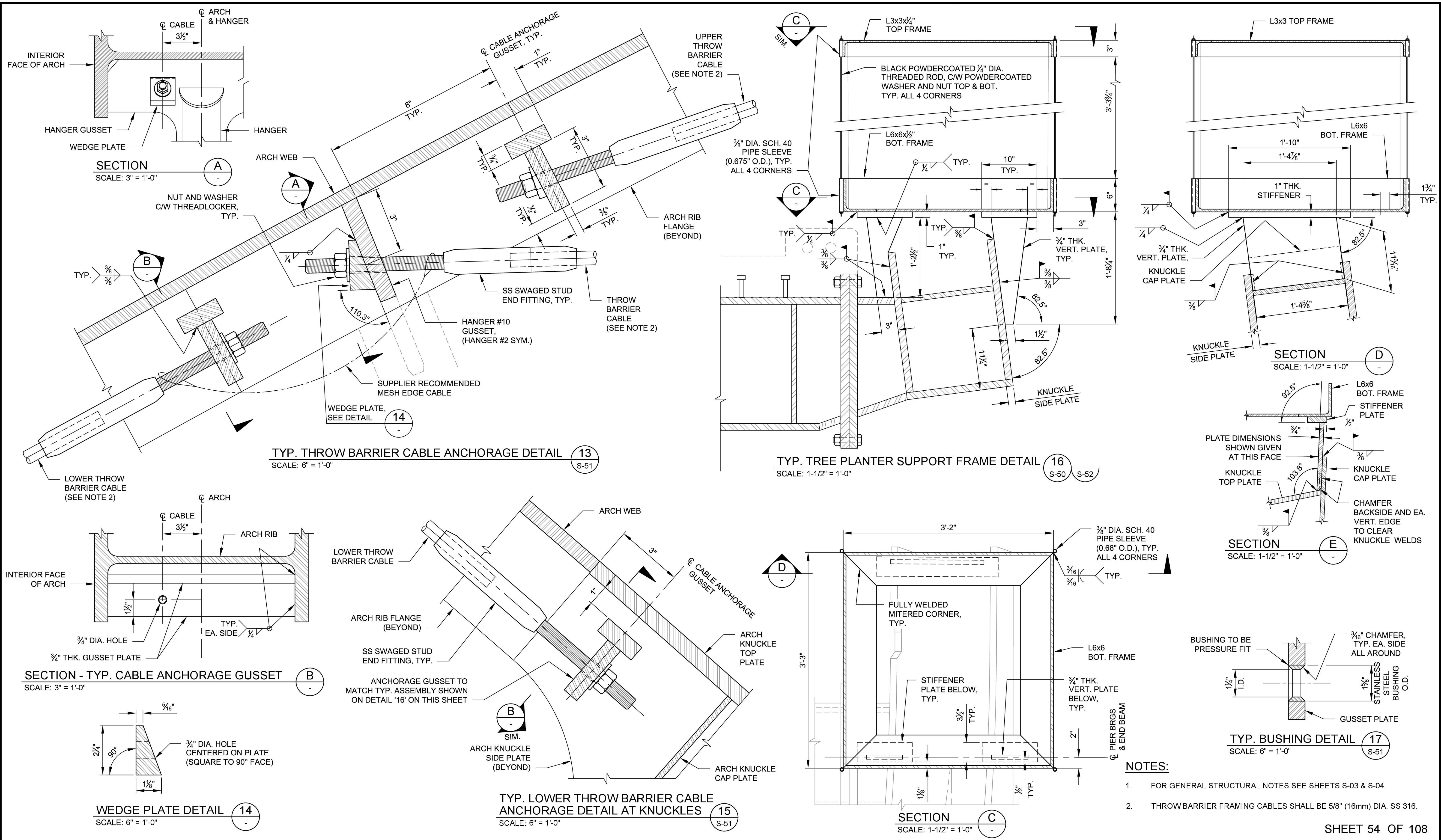
DESIGNED: MAIRI STANNERS
 DATE: 09/14/2026
 DRAWN: SCOTT VARNEY
 DATE: 09/14/2026
 CHECKED: SCHAUN VALDOVINOS
 DATE: 09/14/2026

**STRUCTURAL
DESIGN**



CITY OF MAPLE VALLEY
 T-57 SR 169 PEDESTRIAN BRIDGE
**ARCH DETAILS
SHEET 5**

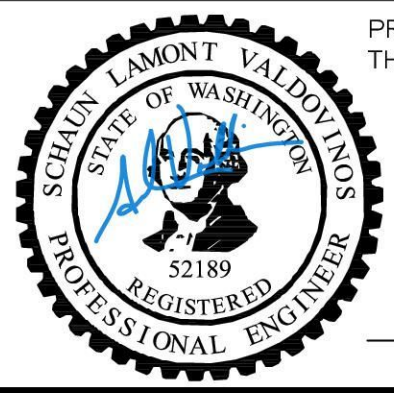
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S-49_S54	
PROJECT No: 1262	
SHEET: S-53	REV: 0



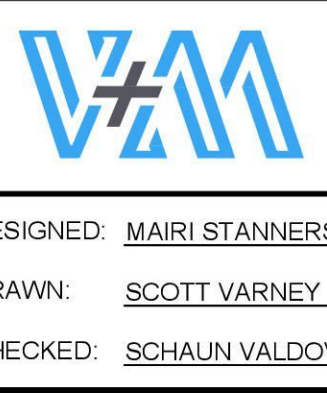
- NOTES:
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - THROW BARRIER FRAMING CABLES SHALL BE 5/8" (16mm) DIA. SS 316.

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CONSTRUCTION

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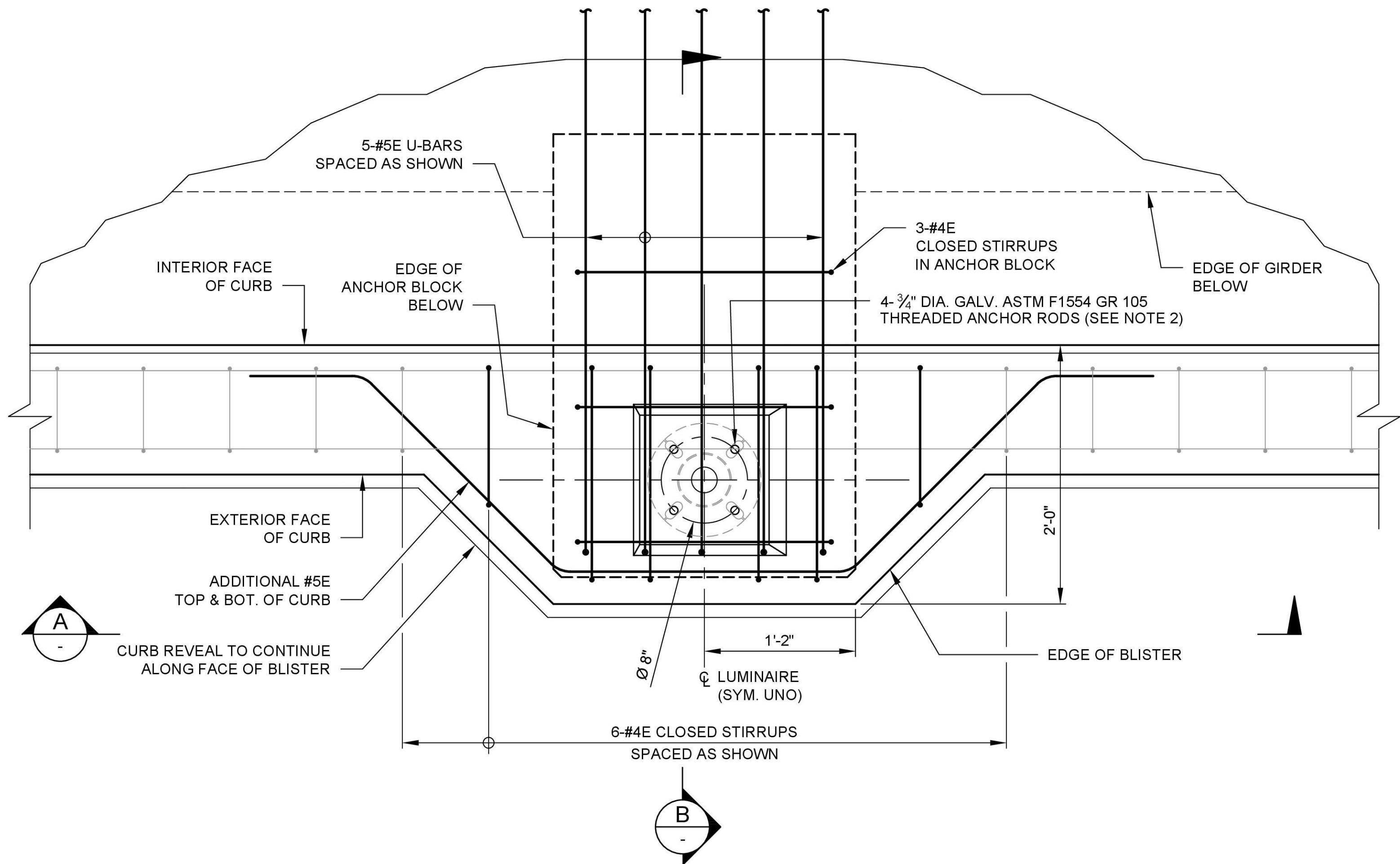
STRUCTURAL
DESIGN

DESIGNED: MAIRI STANNERS DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
ARCH DETAILS
SHEET 6

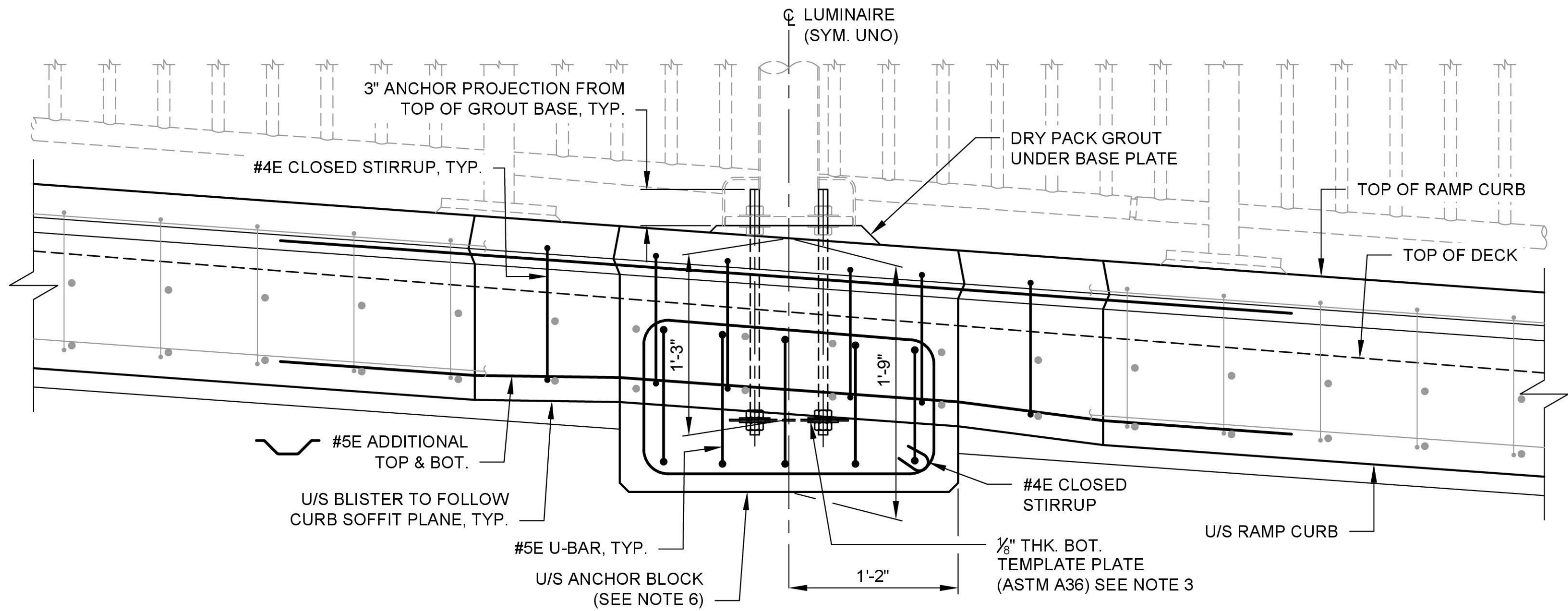
SCALE: AS SHOWN	
FILENAME: 1282-DWG-S49_S54	
PROJECT No: 1262	
SHEET: S-54	REV: 0



PLAN - TYP. LUMINAIRE SUPPORT DETAIL 1

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

NOTE: ELECTRICAL CONDUIT AND JUNCTION BOXES NOT SHOWN FOR CLARITY (SEE ELECTRICAL PLANS)



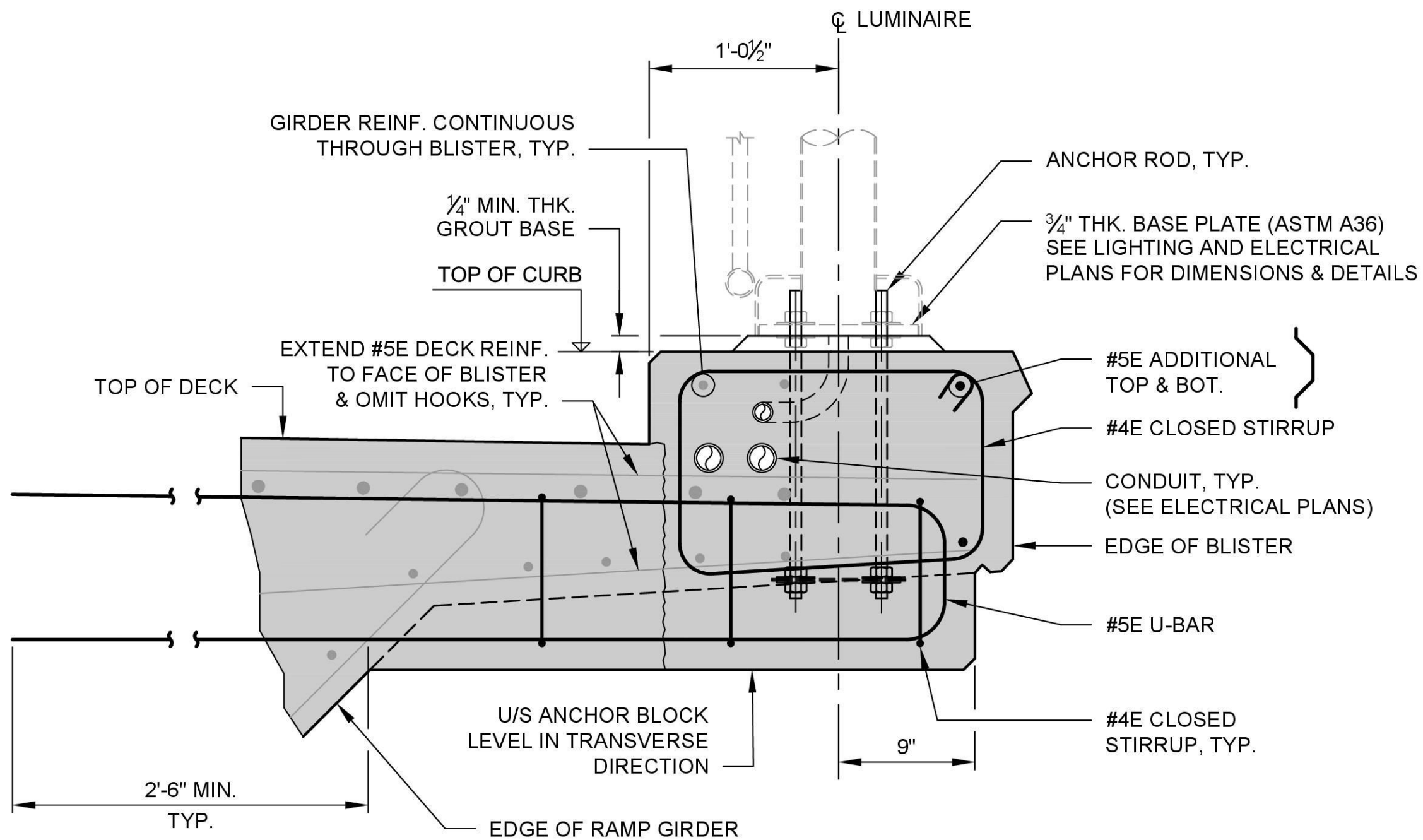
EXTERIOR ELEVATION A

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

NOTE: ELECTRICAL CONDUIT AND JUNCTION BOXES NOT SHOWN FOR CLARITY (SEE ELECTRICAL PLANS)

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- ANCHORAGE ASSEMBLY IS BASED ON LUMEC LUMINAIRE POLE TYPE SM8 BY SIGNIFY. ANCHOR RODS SHALL BE GALVANIZED FOR CARBON STEEL POLE TYPE. ALTERNATIVE POLE TYPES SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO CONSTRUCTION.
- TEMPLATE PLATE DIMENSIONS SHALL MATCH LUMINAIRE BASE PLATE WITH TIGHT FITTING HOLES, ANCHOR ROD NUTS SHALL BE SNUG TIGHT.
- ANCHOR RODS PROJECTING FROM CONCRETE SHALL BE TEMPORARILY WRAPPED IN TIN HOLE PRIOR TO CONCRETE POUR TO PREVENT THREAD CONTAMINATION FROM CONCRETE SPLATTER.
- LEVELING NUTS SHALL BE USED BENEATH BASE PLATE AND SHALL BE RECESSED INTO THE CONCRETE DURING THE POUR WITH TEMPORARY FOAM WRAPPED AROUND THEM.
- 1'-9" ANCHOR BLOCK DEPTH IS BASED ON RAMP LUMINAIRE LOCATIONS. FOR LUMINAIRE AT WEST STAIR UPPER LANDING, UNDERSIDE OF ANCHOR BLOCK SHALL MATCH UPPER LANDING DECK SOFFIT ELEVATION.



SECTION B

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

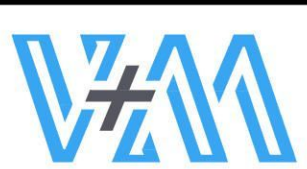
SHEET 55 OF 108

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REV	DATE	DESCRIPTION	BY
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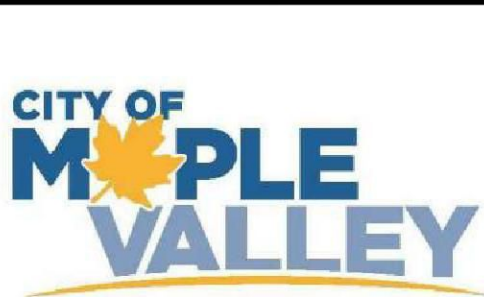


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09-14-2026
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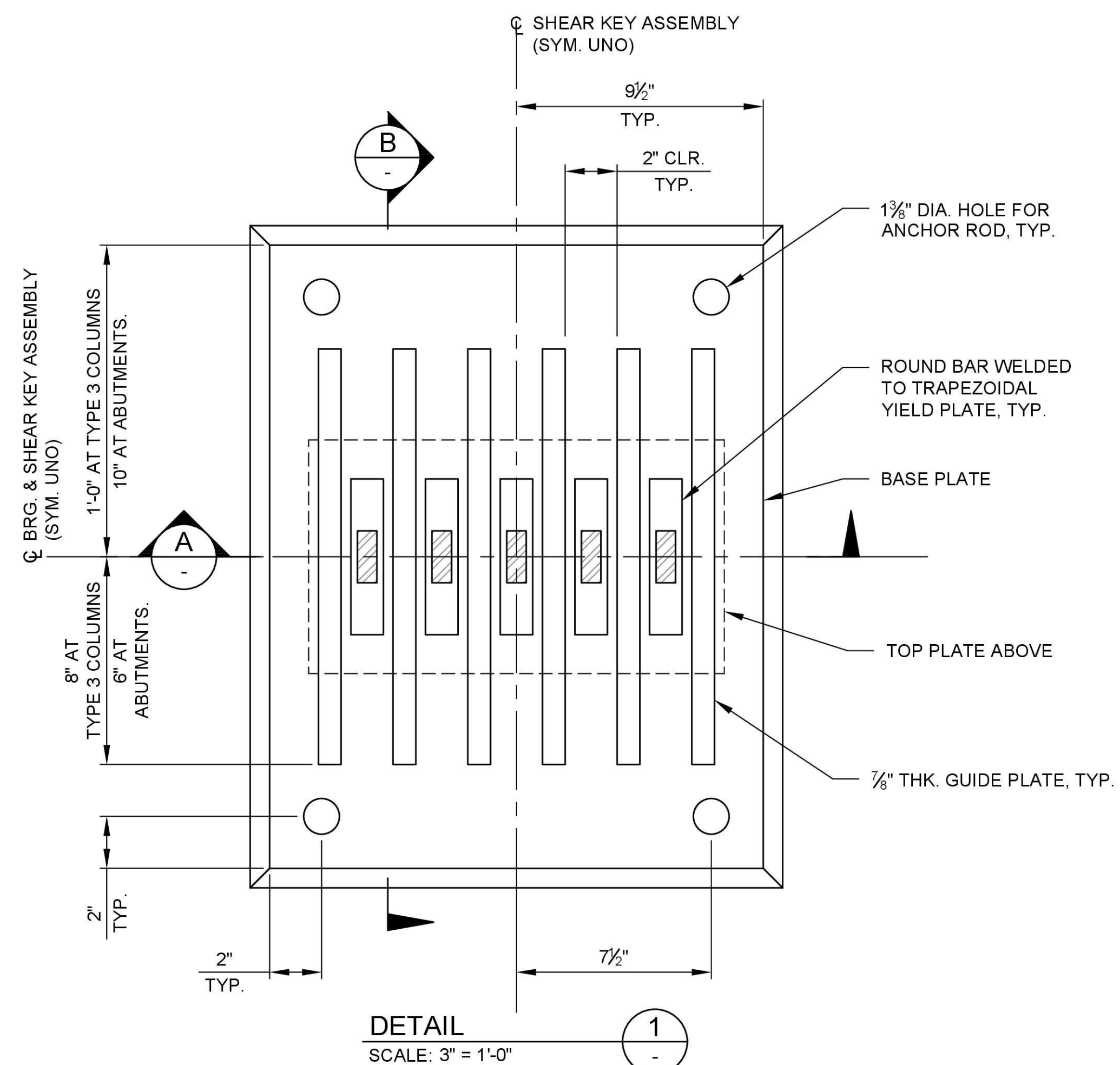
STRUCTURAL DESIGN

DESIGNED: CONG XU DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

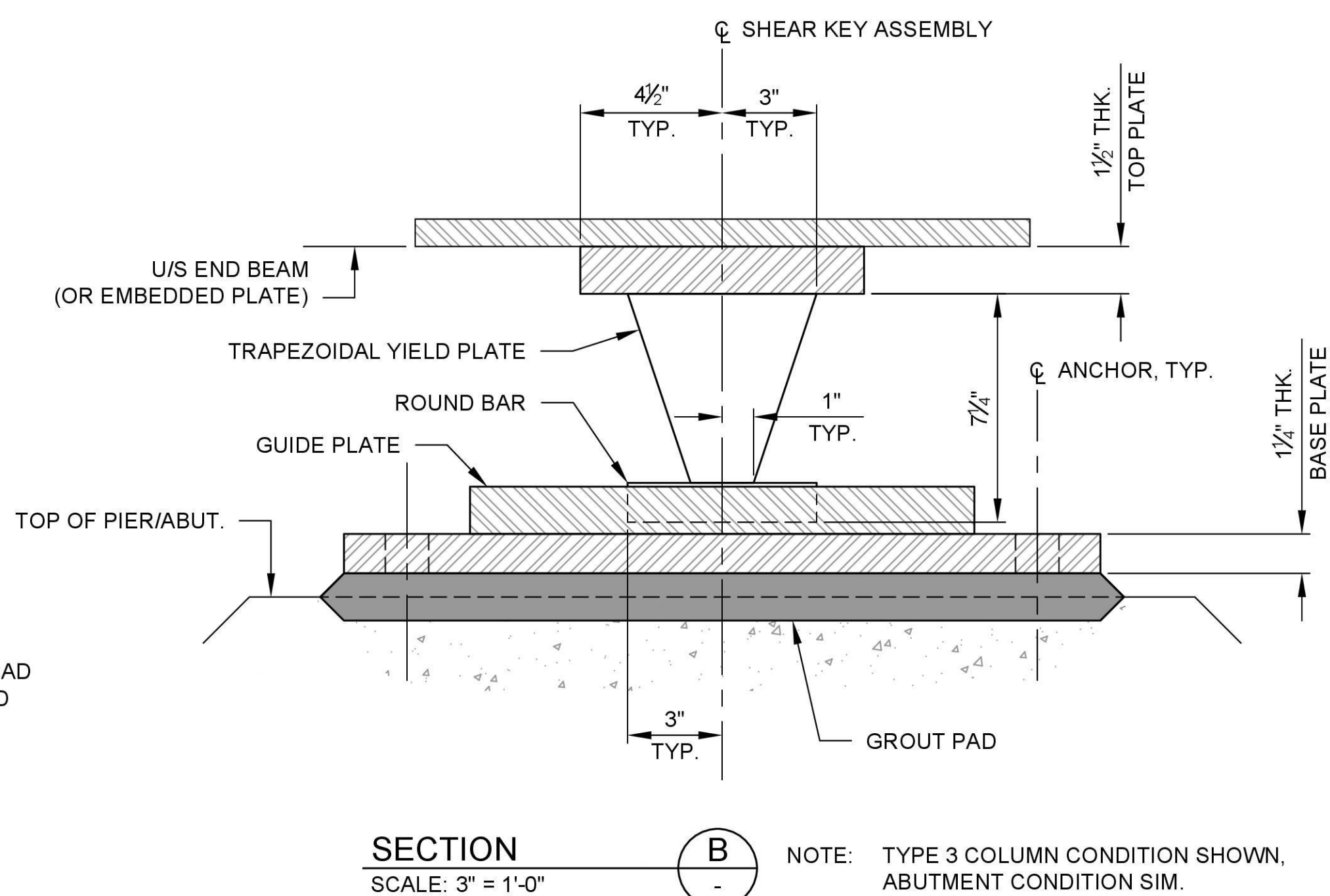
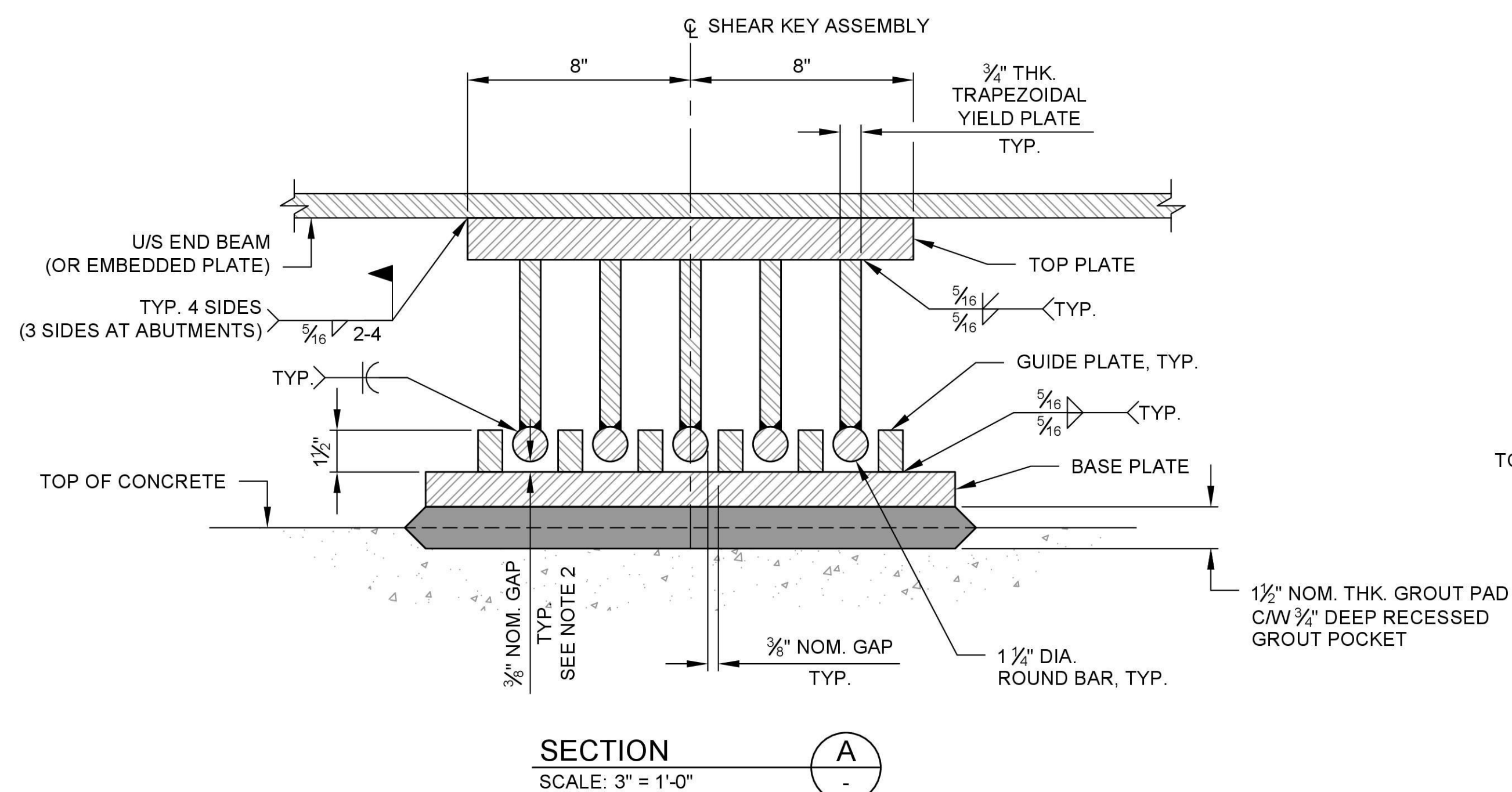


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
LUMINAIRE SUPPORT DETAILS

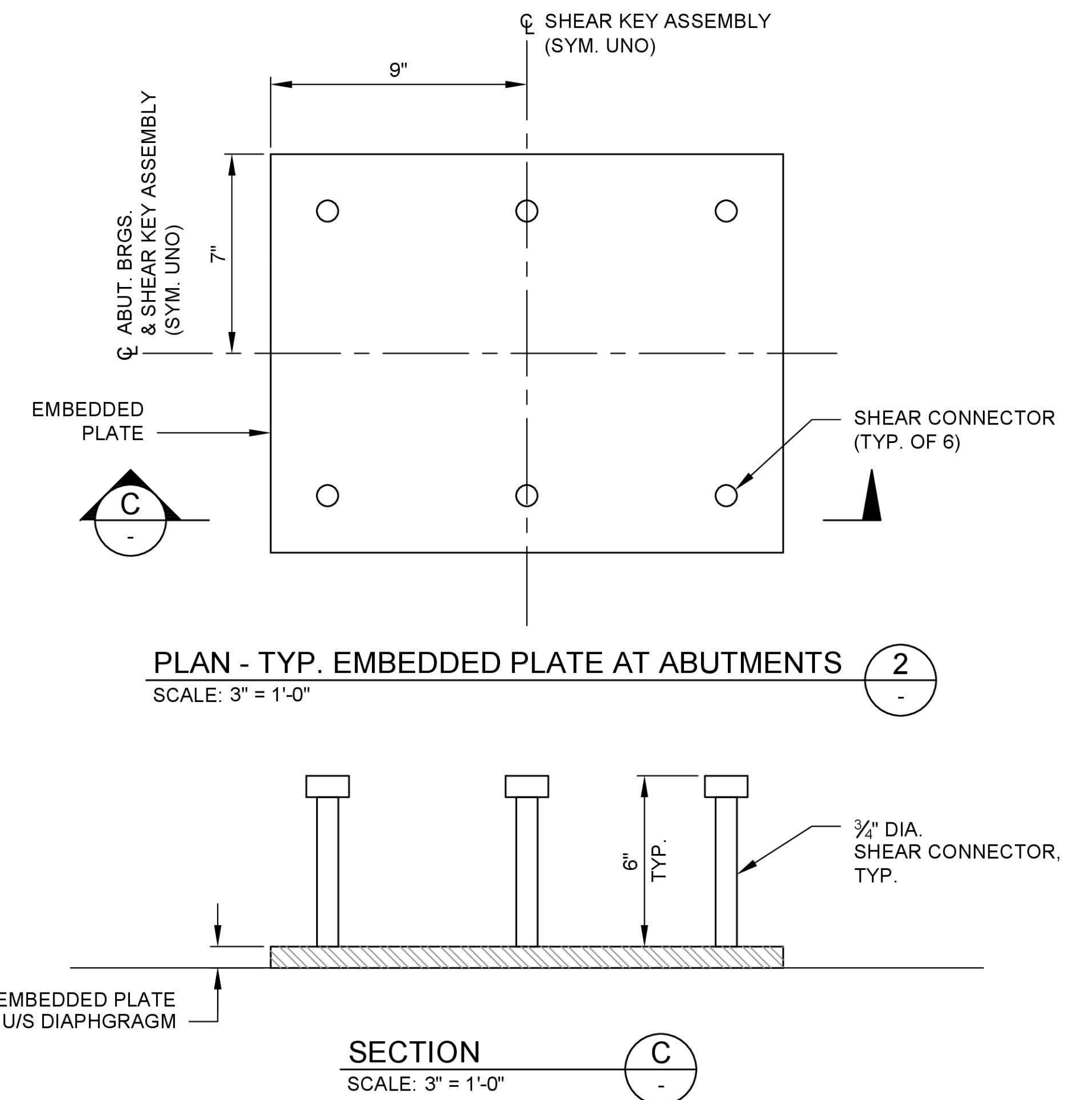
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S55	
PROJECT No: 1262	
SHEET: S-55	REV: 0



NOTE: TYPE 3 COLUMN CONDITION SHOWN
(ABUTMENT CONDITION SIM.)



NOTE: TYPE 3 COLUMN CONDITION SHOWN,
ABUTMENT CONDITION SIM.



SECTION
SCALE: 3" = 1'-0"

- NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. NOMINAL GAP BETWEEN TADAS ROUND BAR AND GUIDE PLATES/BASE PLATE SHALL BE TARGETED AFTER BEARINGS ARE SET. THE GAP TOLERANCE SHALL BE $\pm \frac{1}{8}"$.
3. TADAS SHALL BE TO MATCH MAINSPAN STEELWORK.
4. ANCHOR RODS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
5. SHEAR KEY TOP PLATE TO BE FIELD WELDED TO ARCH END BEAM IN STAGING AREA PRIOR TO ARCH SPAN LIFT.

SHEET 56 OF 108

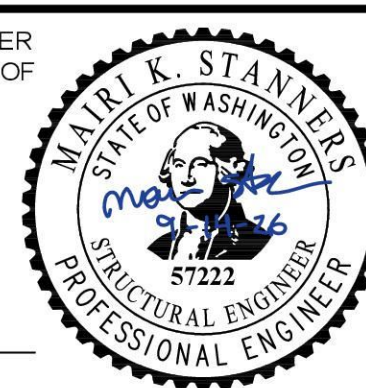
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CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
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THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL DESIGN

DESIGNED: <u>CHELENE WONG</u>	DATE: <u>09/14/2026</u>
DRAWN: <u>MICHAEL CHUI</u>	DATE: <u>09/14/2026</u>
CHECKED: <u>SCHAUN VALDOVINOS</u>	DATE: <u>09/14/2026</u>

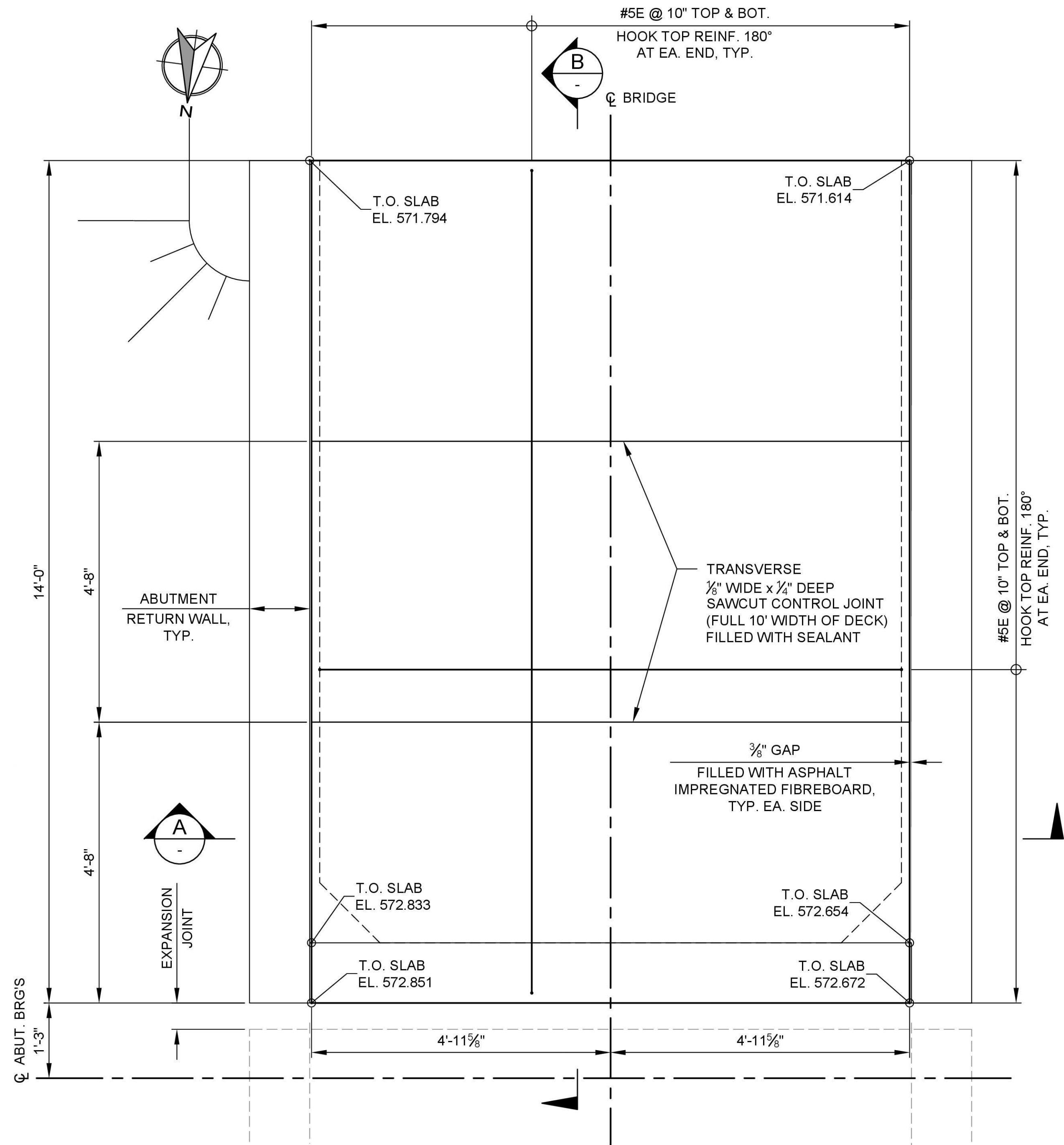


CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

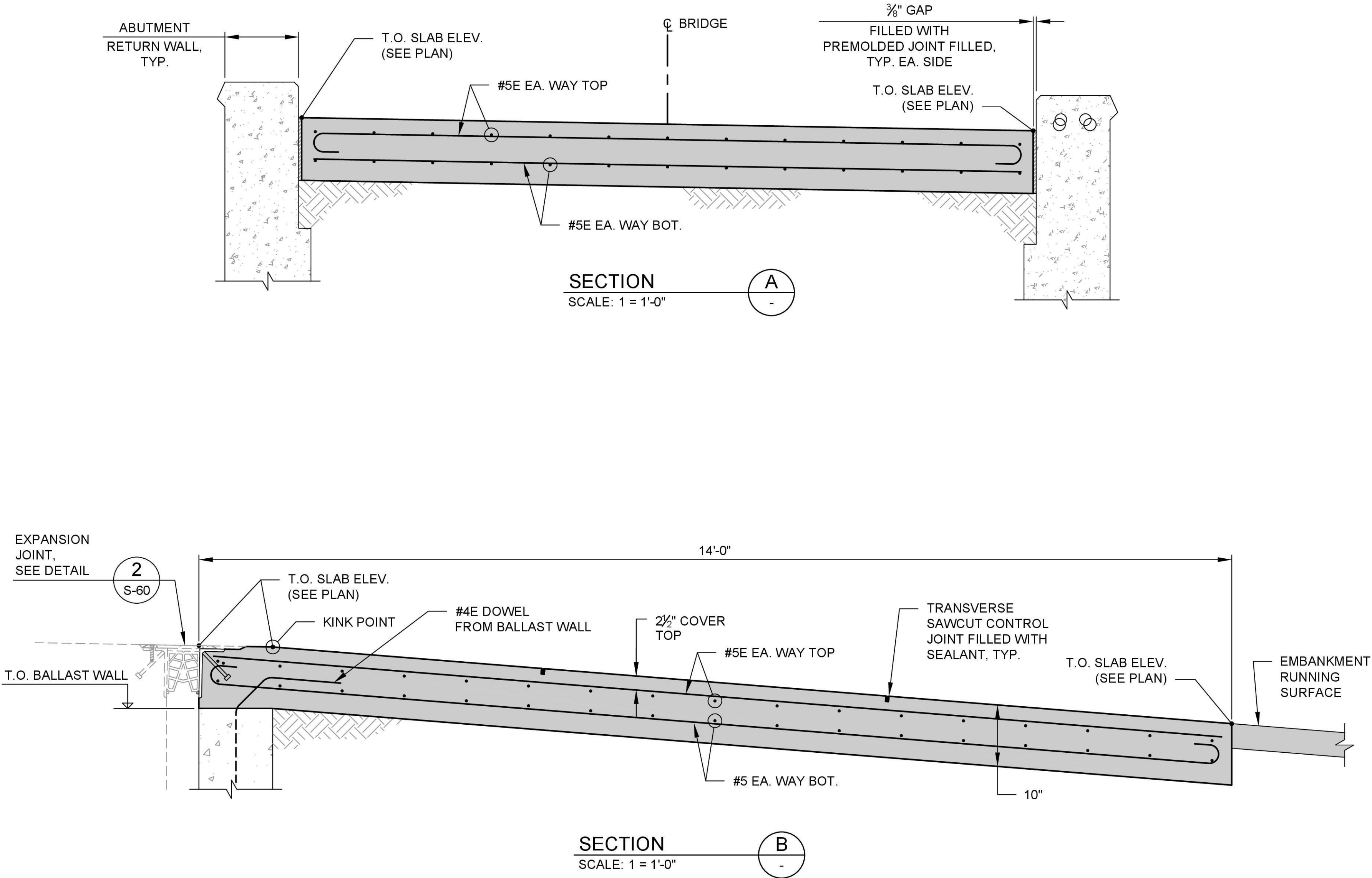
SHEAR KEY DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S56	
PROJECT No: 1262	
SHEET: S-56	REV: 0



NOTE: APPROACH SLAB AT ABUTMENT A1 SHOWN.
(APPROACH SLAB AT ABUTMENT A12 SYMMETRICAL)

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



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- TOP OF SLAB ELEVATIONS SHOWN ON PLAN DO NOT ACCOUNT FOR LOCAL RECESSES TO ACCOMMODATE EXPANSION JOINT HARDWARE. THESE RECESSES SHALL BE CONSTRUCTED AS PER EXPANSION JOINT DETAILS.

SHEET 59 OF 108

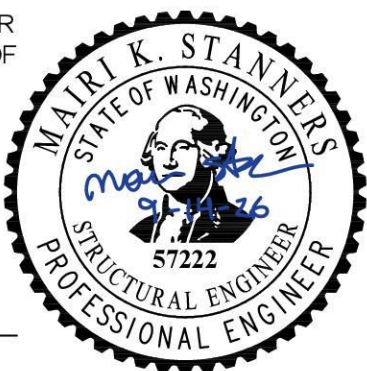
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CONSTRUCTION

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REV	DATE	DESCRIPTION	BY
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STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
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CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

APPROACH SLAB DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S59	
PROJECT No: 1262	
SHEET: S-59	REV: 0

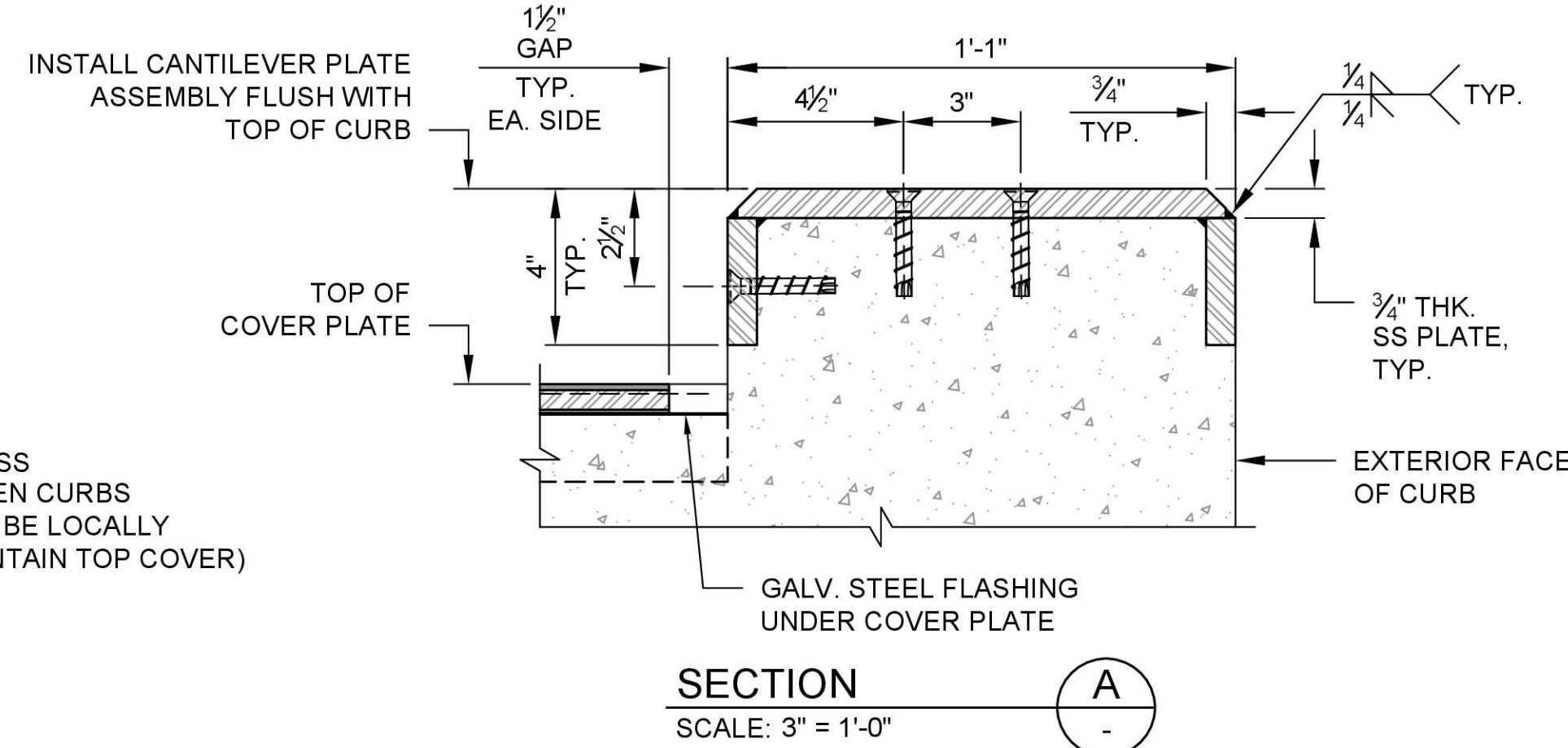
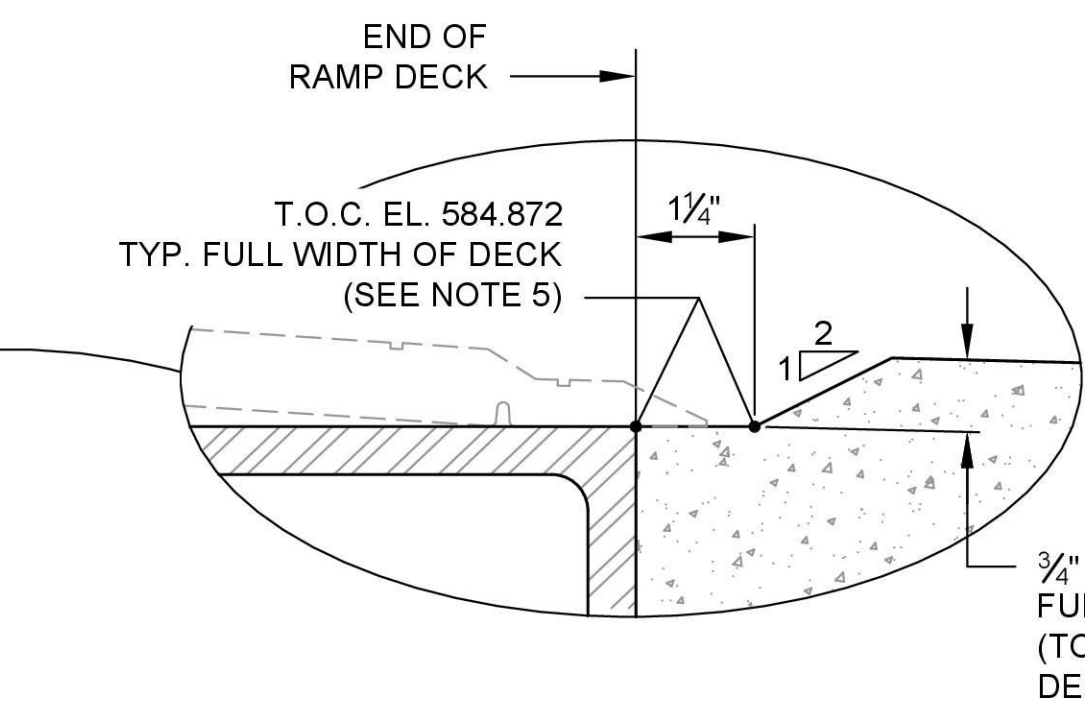
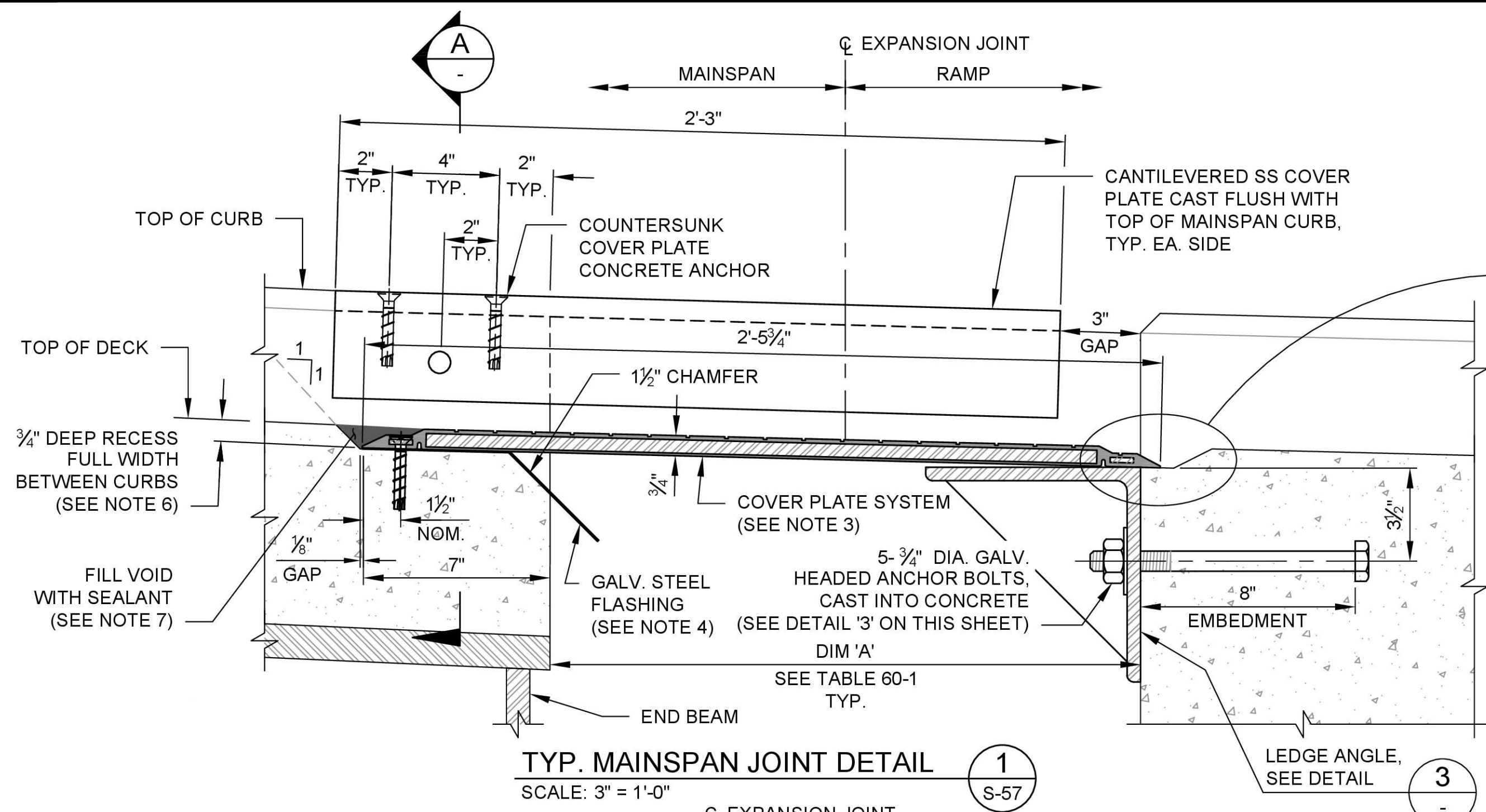
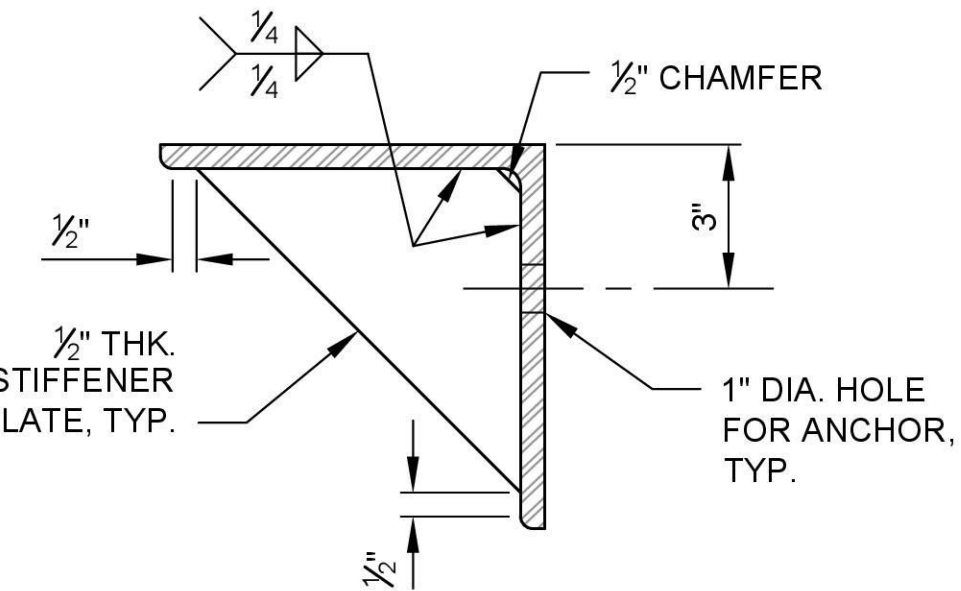
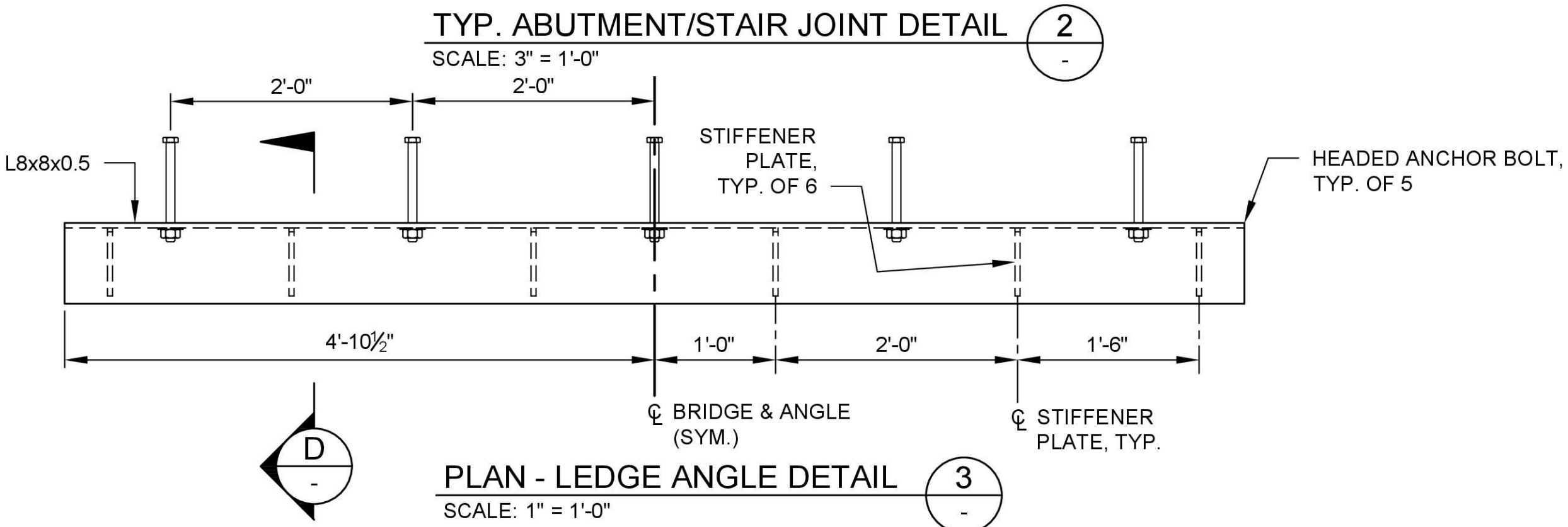
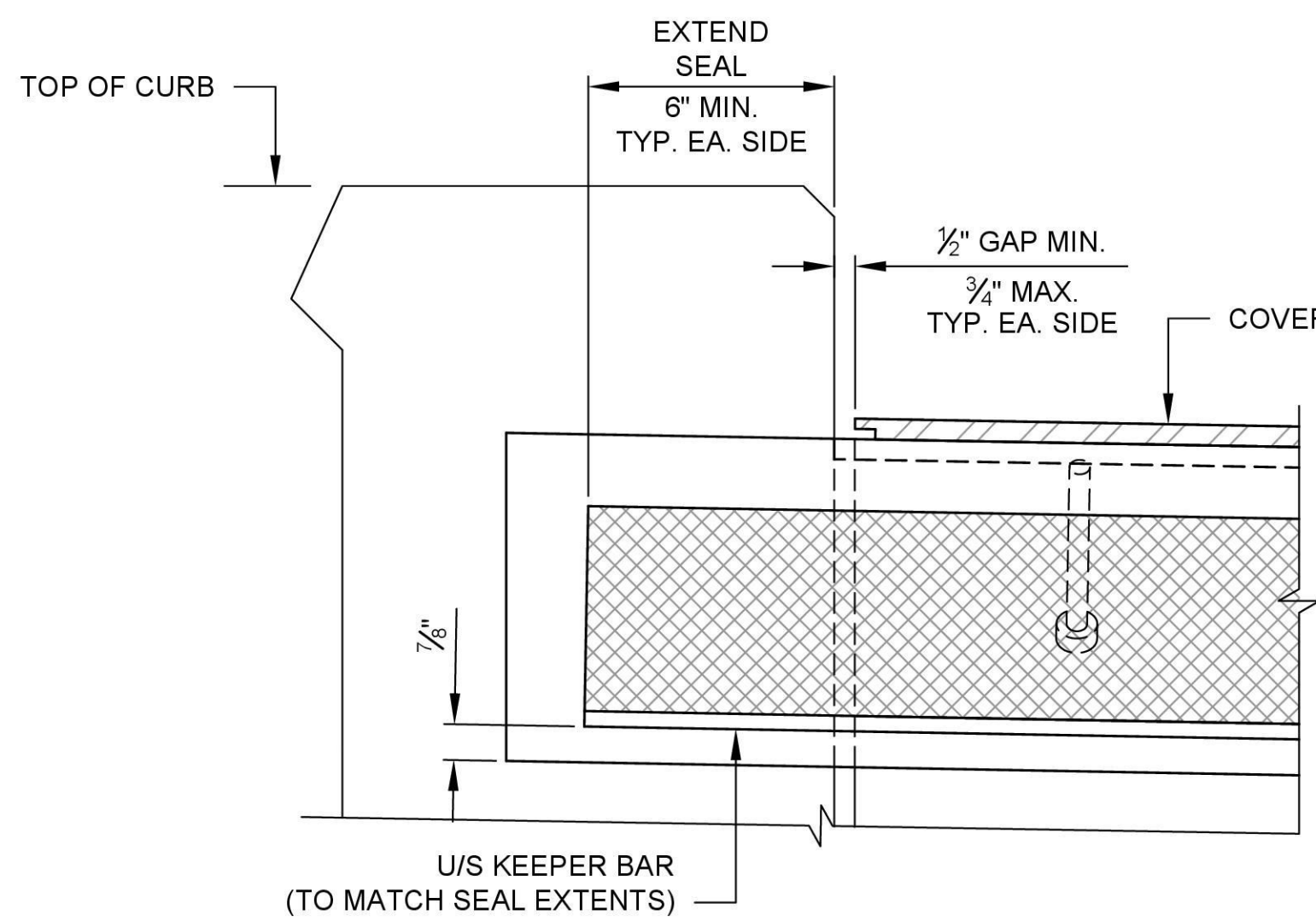
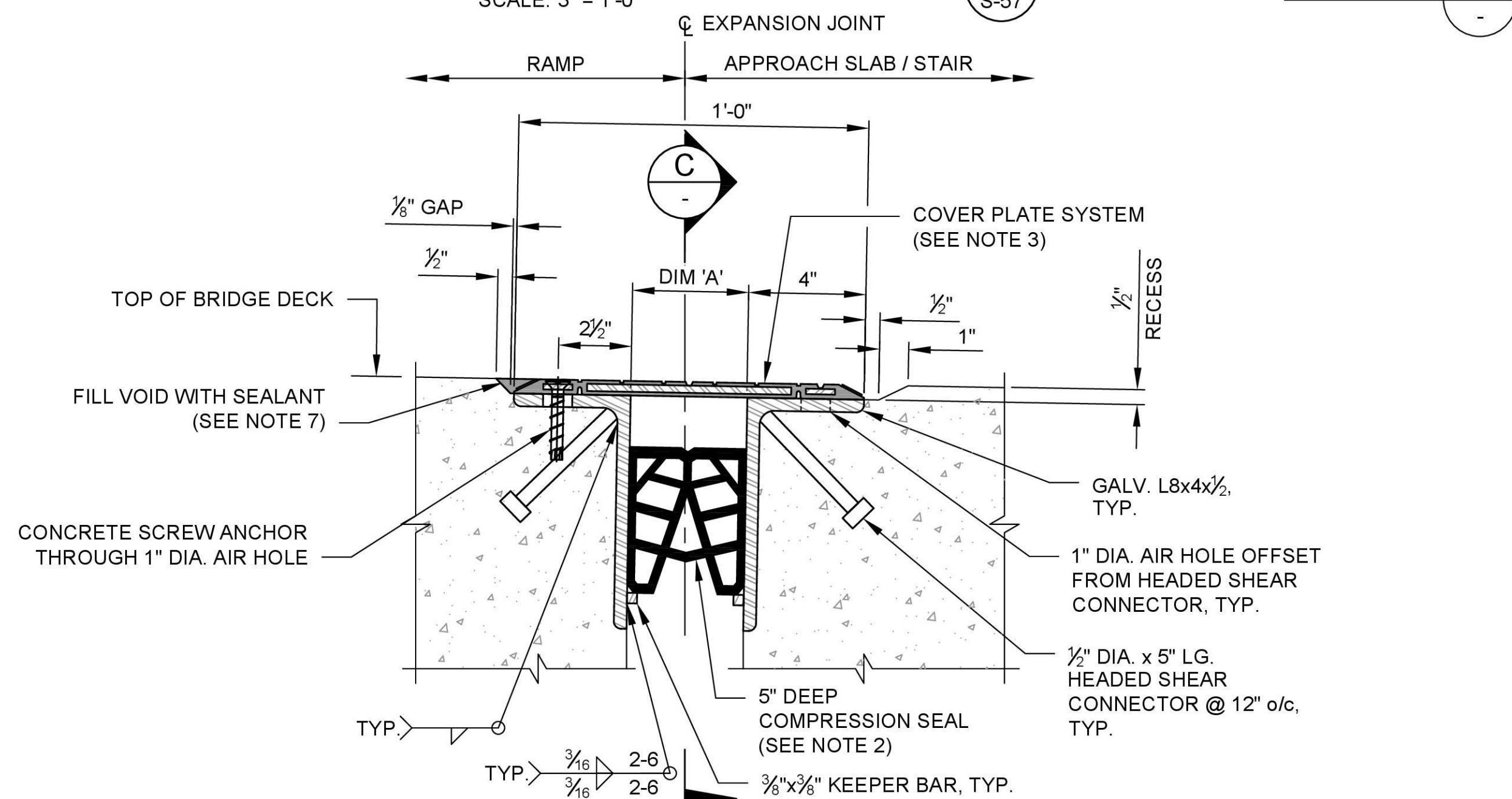


TABLE 60-1: GAP "A" SETTING DIMENSIONS (INCHES)					
TEMPERATURE (°F)	20	40	64	80	100
MAIN SPAN	22 1/2"	22 1/4"	22"	21 3/4"	21 1/2"
ABUTMENT/STAIRS	-	4 1/4"	4"	3 3/4"	-



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- COMPRESSION SEAL SHALL SATISFY GAP SETTINGS SHOWN ON THIS SHEET, AS WELL AS THE WSDOT QUALIFIED PRODUCTS LIST.
- COVER PLATES SHALL COMPLY WITH THE PROJECT SPECIAL PROVISIONS.
- FLASHING SHALL HAVE A 2 1/2" PROJECTION FROM FACE OF MAINSPAN CONCRETE DECK AT 1:1 SLOPE DOWN, AND BE ALONG IT'S ENTIRE LENGTH (10'-0").
- GRIND TOP SURFACE OF CONCRETE LEDGE AS REQUIRED TO MATCH TOP SURFACE OF OF ADJACENT L7x4.
- MAINSPAN RECESS DEPTH SHALL MATCH TRANSVERSE SLOPE OF ADJACENT L7x4.
- SEALANT AT COVER PLATE SHALL BE MASTERSEAL SL2 OR APPROVED EQUIVALENT.

SHEET 60 OF 108

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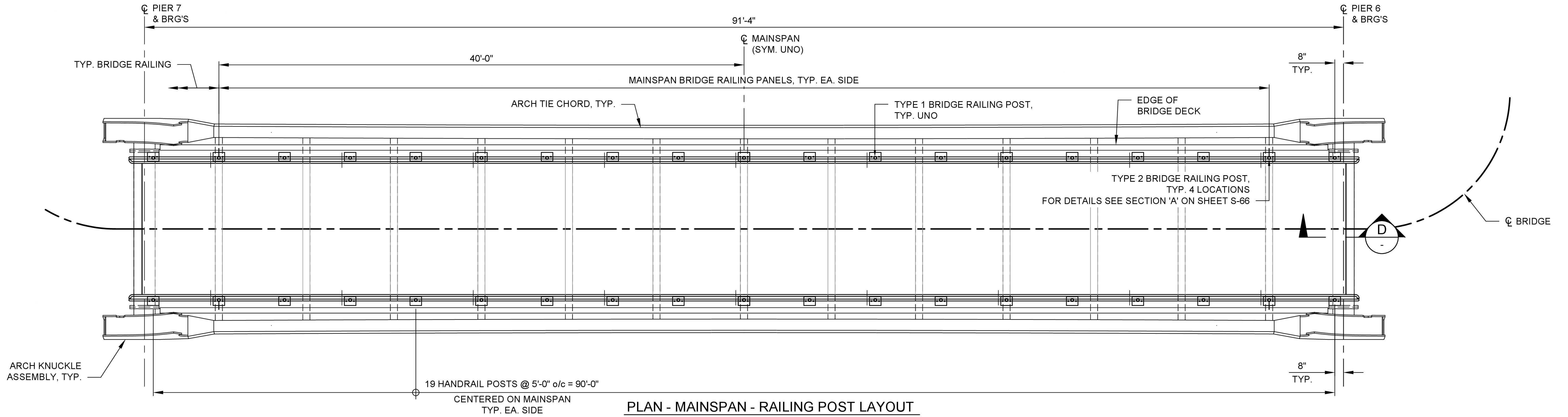
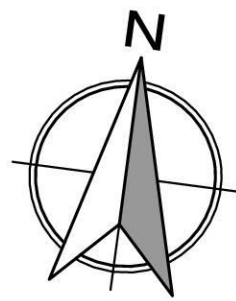


STRUCTURAL DESIGN	
DESIGNED: CHELENE WONG	DATE: 09/14/2026
DRAWN: MICHAEL CHUI	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
EXPANSION JOINT DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S60	
PROJECT No: 1262	
SHEET: S-60	REV: 0



PLAN - MAINSPAN - RAILING POST LAYOUT
SCALE: 1/4" = 1'-0"

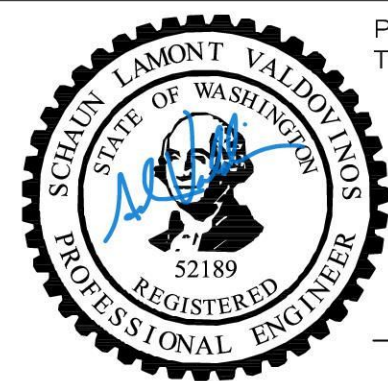
NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- POST LOCATION DIMENSIONS SHOWN ARE PLAN DIMENSIONS AND DO NO ACCOUNT FOR LONGITUDINAL GRADE, TYP. SPECIFICALLY UNLESS NOTED OTHERWISE.

SHEET 62 OF 108

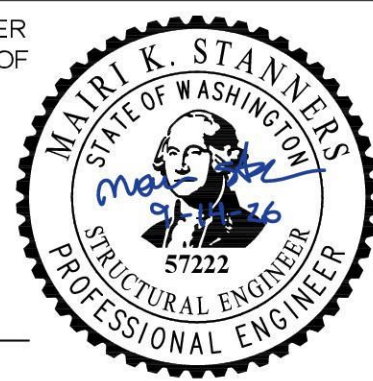
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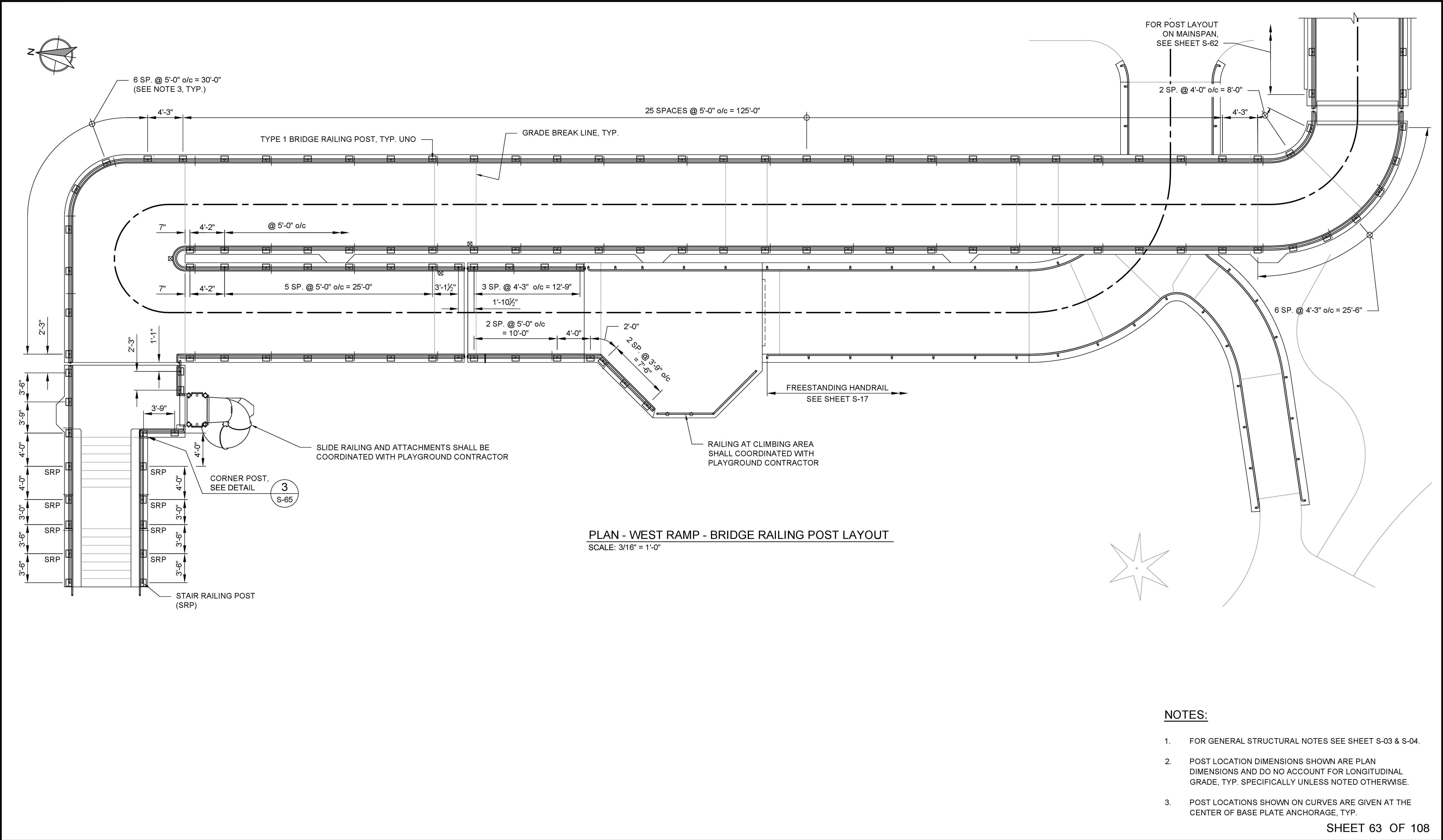
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
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CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAILING DETAILS
SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S62	
PROJECT No: 1262	
SHEET: S-62	REV: 0



NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEET S-03 & S-04.
- POST LOCATION DIMENSIONS SHOWN ARE PLAN DIMENSIONS AND DO NO ACCOUNT FOR LONGITUDINAL GRADE, TYP. SPECIFICALLY UNLESS NOTED OTHERWISE.
- POST LOCATIONS SHOWN ON CURVES ARE GIVEN AT THE CENTER OF BASE PLATE ANCHORAGE, TYP.

SHEET 63 OF 108

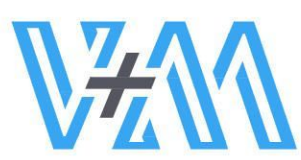
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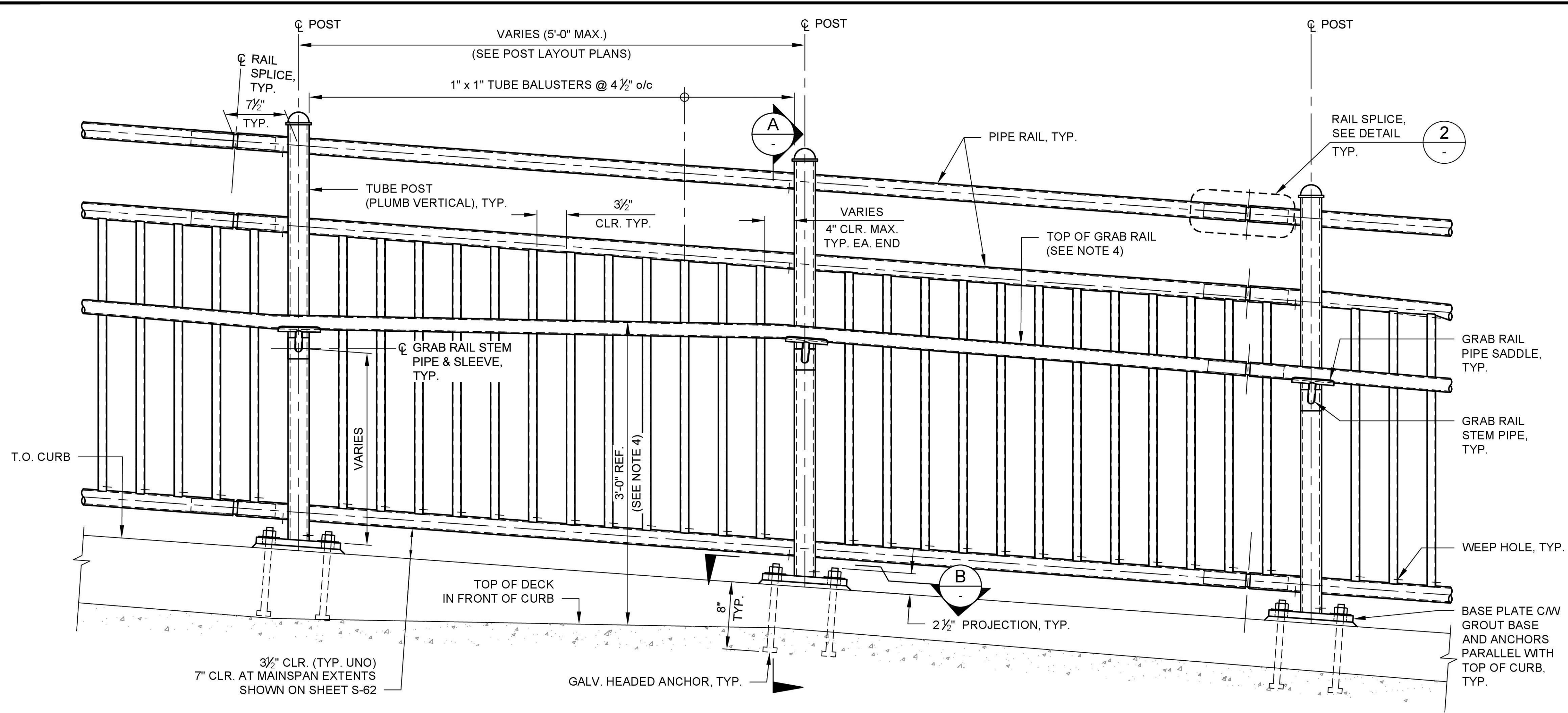
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



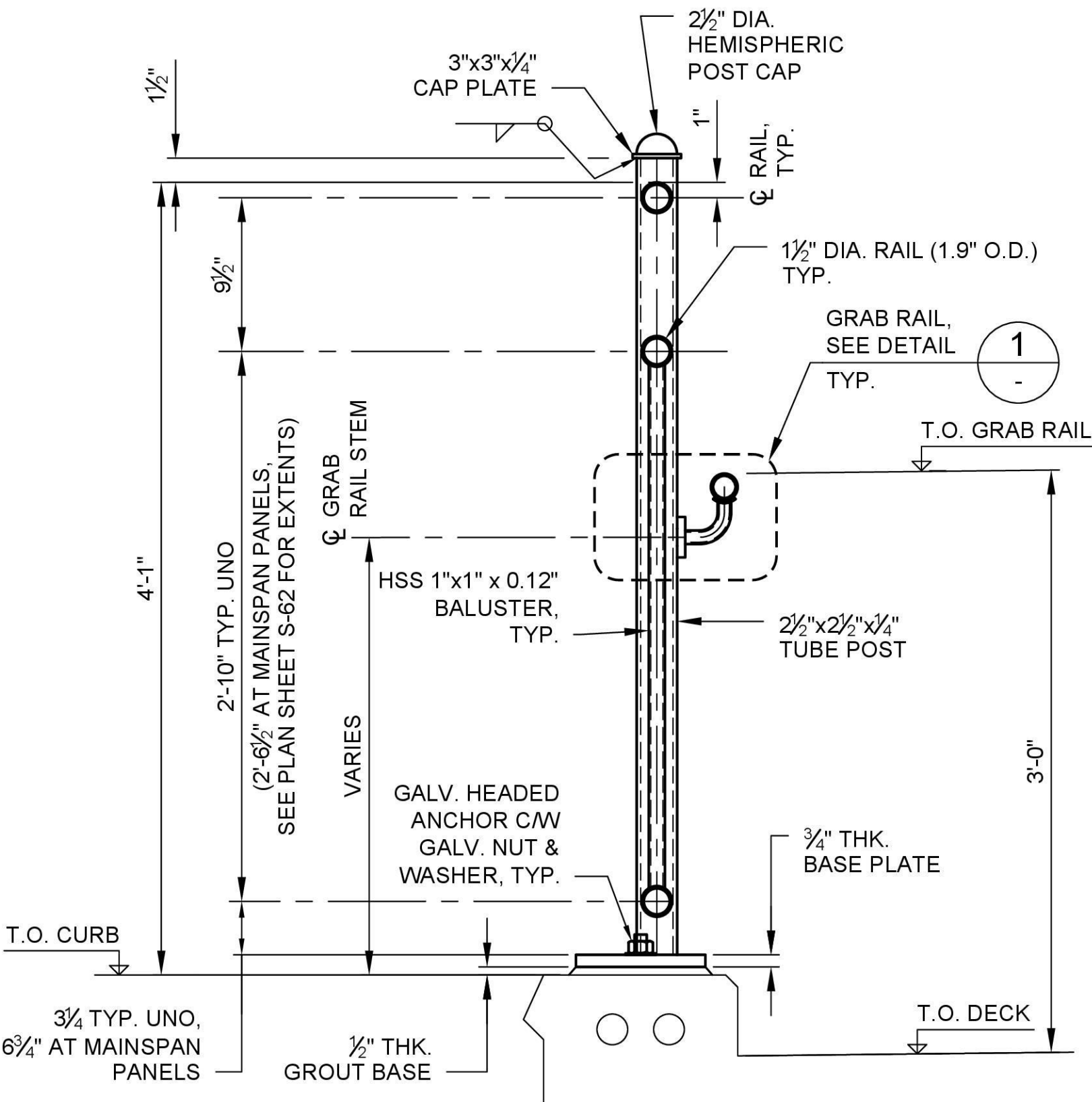
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAILING DETAILS
SHEET 3

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S61_S66	
PROJECT No: 1262	
SHEET: S-63	REV: 0

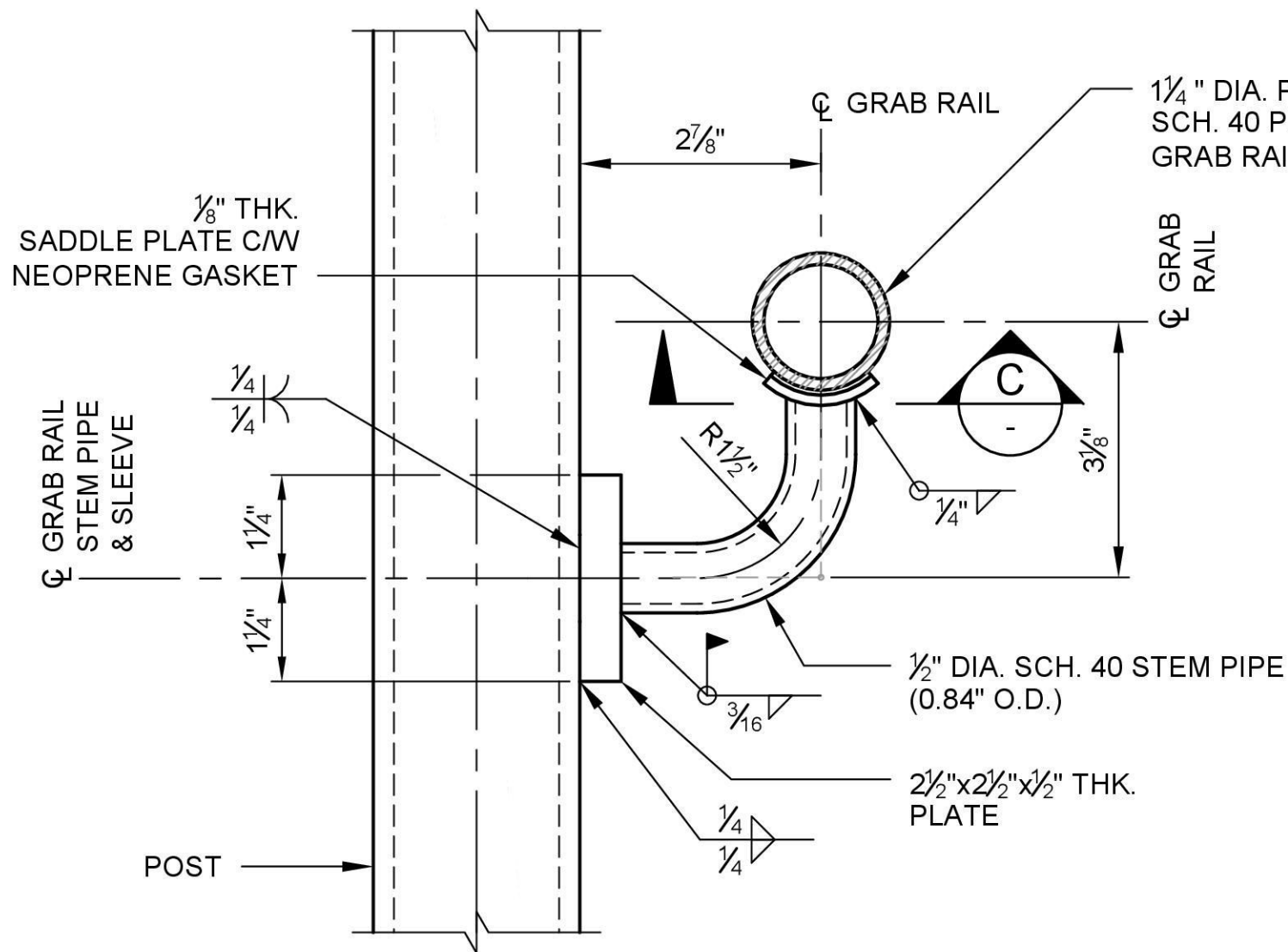


BRIDGE RAILING - TYPICAL ELEVATION
SCALE: 1-1/2" = 1'-0"

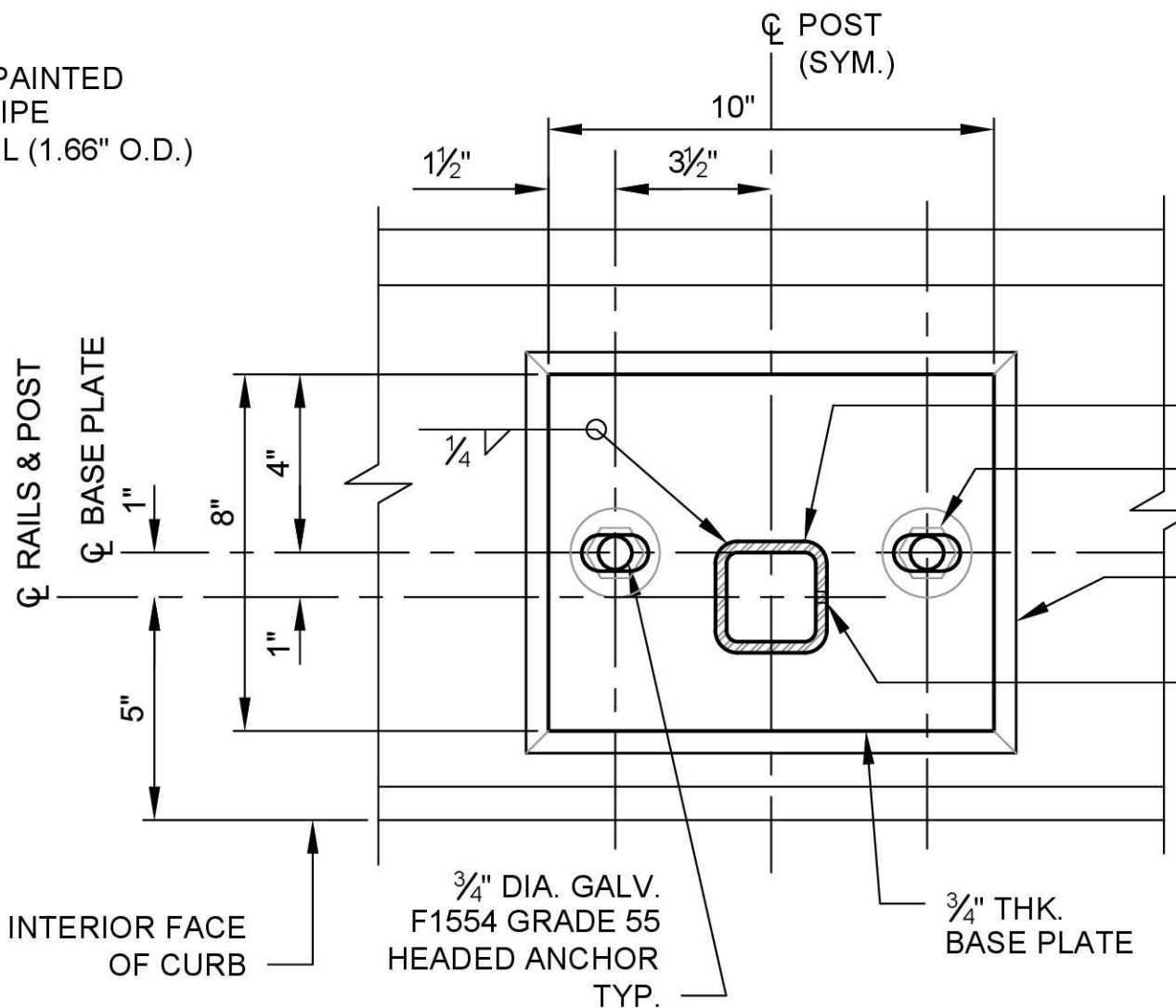
NOTE: VIEW IS SHOWN AT RAMP LANDING TO ILLUSTRATE MAXIMUM EXTENT OF GRAB RAIL VARIATION RELATIVE TO RAILING SYSTEM



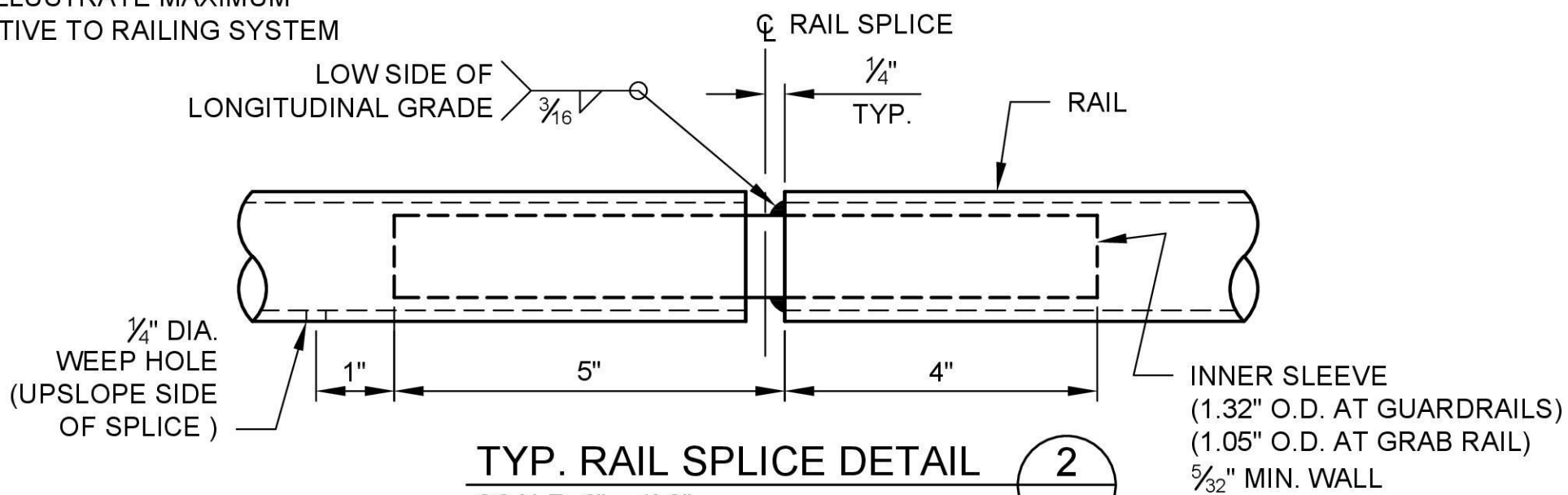
TYP. TYPE 1 RAILING POST SECTION
SCALE: 1-1/2" = 1'-0"



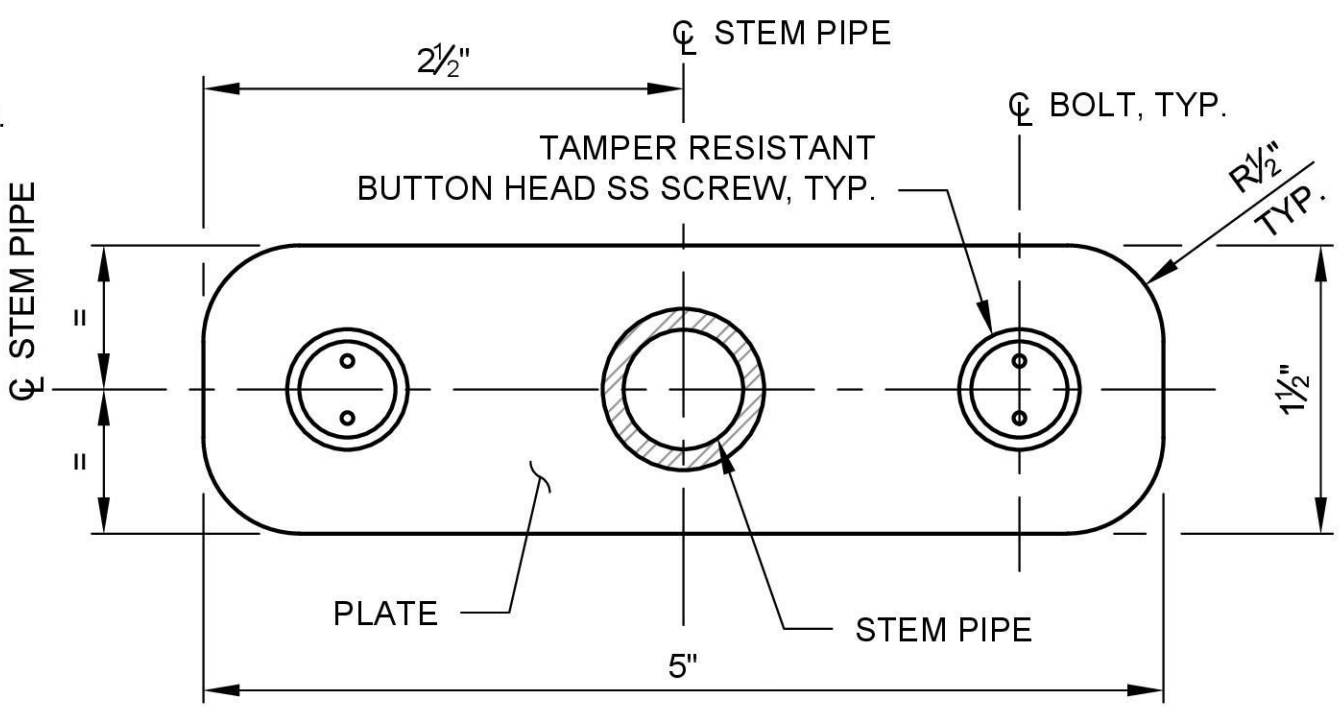
GRAB RAIL DETAIL
SCALE: 6" = 1'-0"



TYP. BASE PLATE SECTION
SCALE: 3" = 1'-0"



TYP. RAIL SPLICE DETAIL
SCALE: 6" = 1'-0"



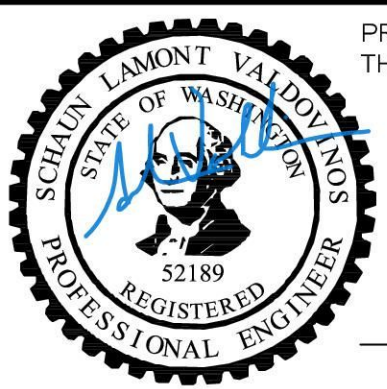
UNBENT PIPE SADDLE SECTION
SCALE: 1'-0" = 1'-0"

NOTES:

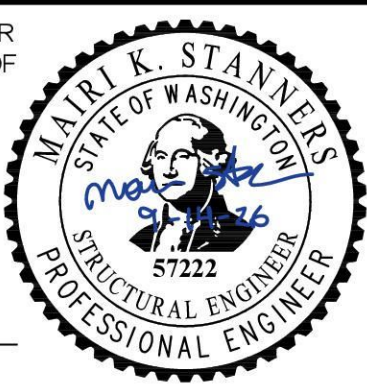
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- PEDESTRIAN GRAB RAIL TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 6-06 AND THE SPECIAL PROVISIONS.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION INCLUDING AN ERECTION DIAGRAM.
- ALL POSTS AND BALUSTERS TO BE INSTALLED PLUMB VERTICAL AND RAILS SHALL BE INSTALLED PARALLEL TO TOP OF CURBS. GRAB RAILS SHALL BE INSTALLED AS A DIRECT VERTICAL OFFSET FROM TOP OF BRIDGE DECK AT BASE OF CURB.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING SHALL NOT BE PERMITTED.
- POST ASSEMBLY COMPONENTS SHALL BE PAINTED WITH AN APPROVED COATING SYSTEM PER THE SPECIAL PROVISIONS. CONTRACTOR TO CONFIRM FIT OF PAINTED INNER SLEEVE WITHIN GUARDRAIL AND GRAB RAIL PRIOR TO INSTALLATION.
- RAILING SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO JOB SITE.

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CONSTRUCTION

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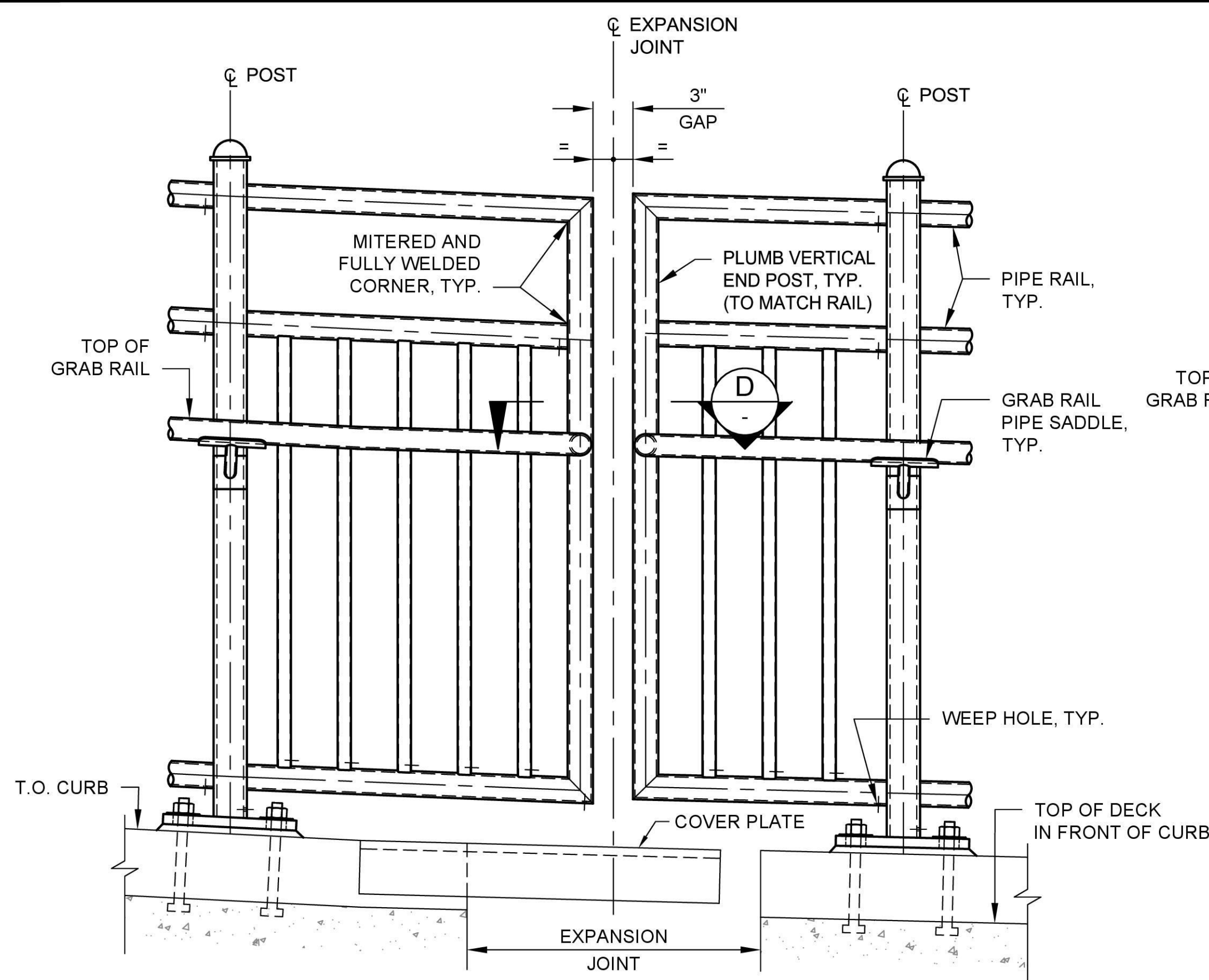
DESIGNED: CHELENE WONG
DATE: 09/14/2026
DRAWN: SCOTT VARNEY
DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS
DATE: 09/14/2026

STRUCTURAL
DESIGN



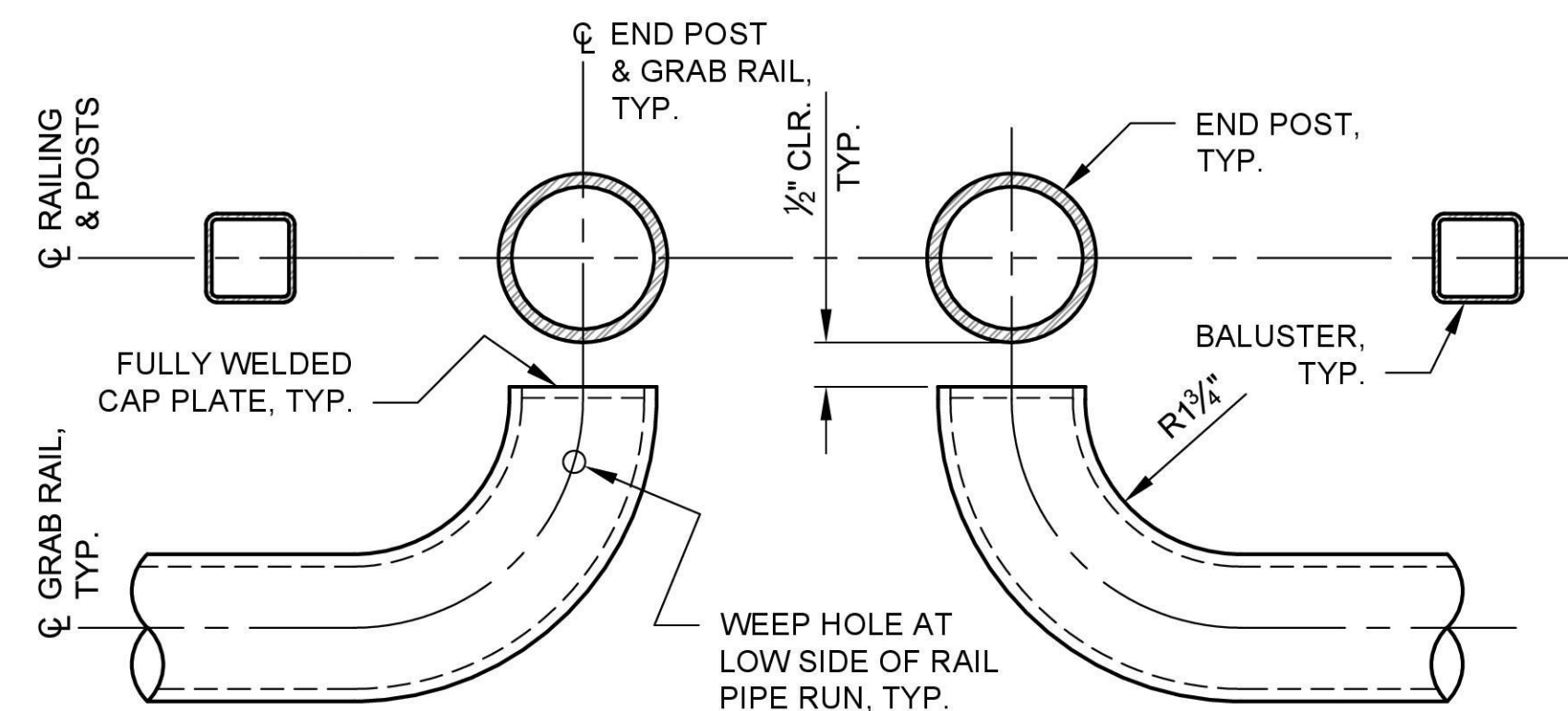
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAILING DETAILS
SHEET 4

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S61_S66	
PROJECT No: 1262	
SHEET: S-64	REV: 0

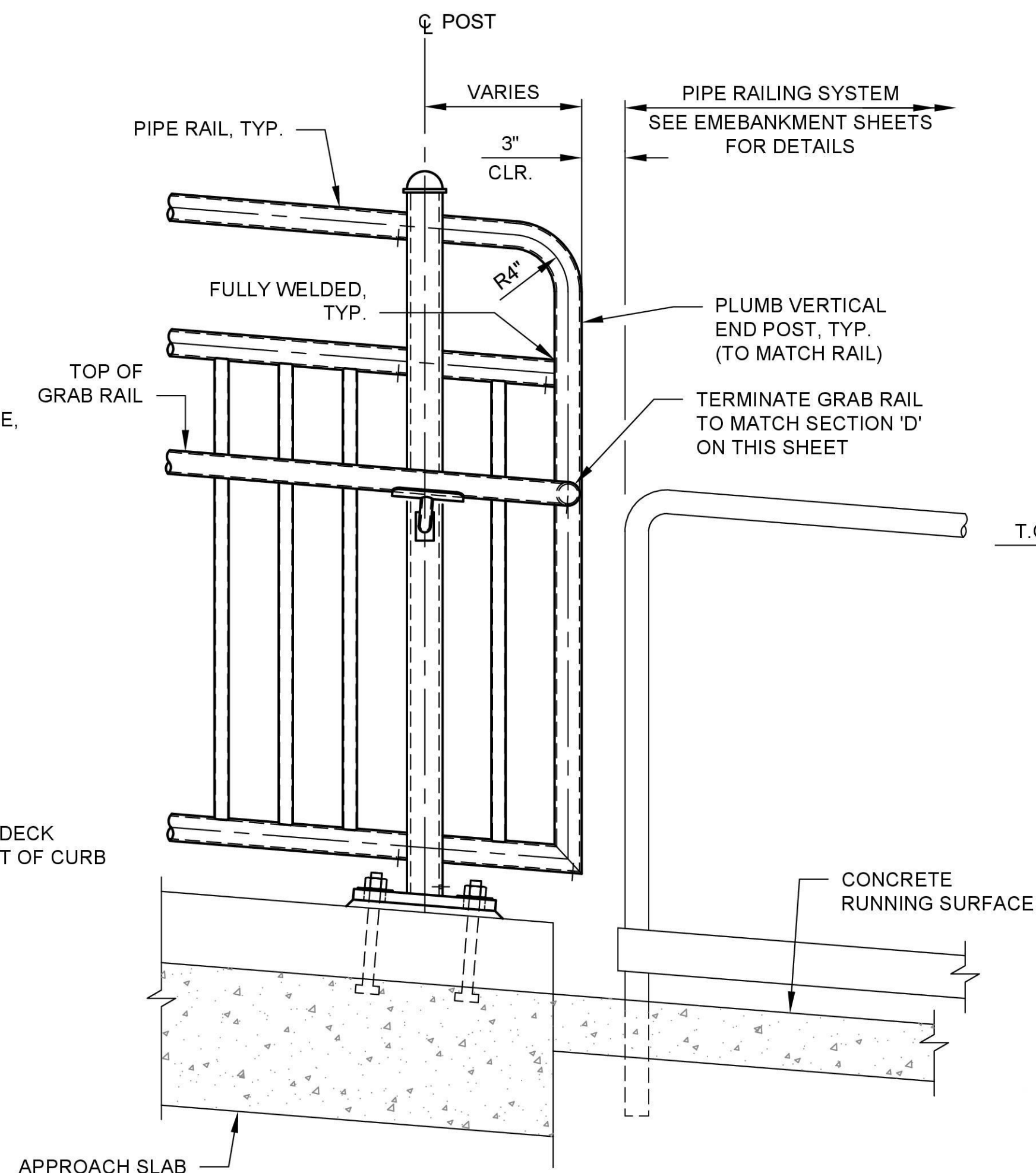


- ALL DETAILS TO MATCH TYPICAL ELEVATION UNLESS NOTED OTHERWISE ON THIS VIEW.
- MAINSPAN EXPANSION JOINT CONDITION SHOWN.

BRIDGE RAILING - TYP. ELEVATION AT EXPANSION JOINT
SCALE: 1-1/2" = 1'-0"

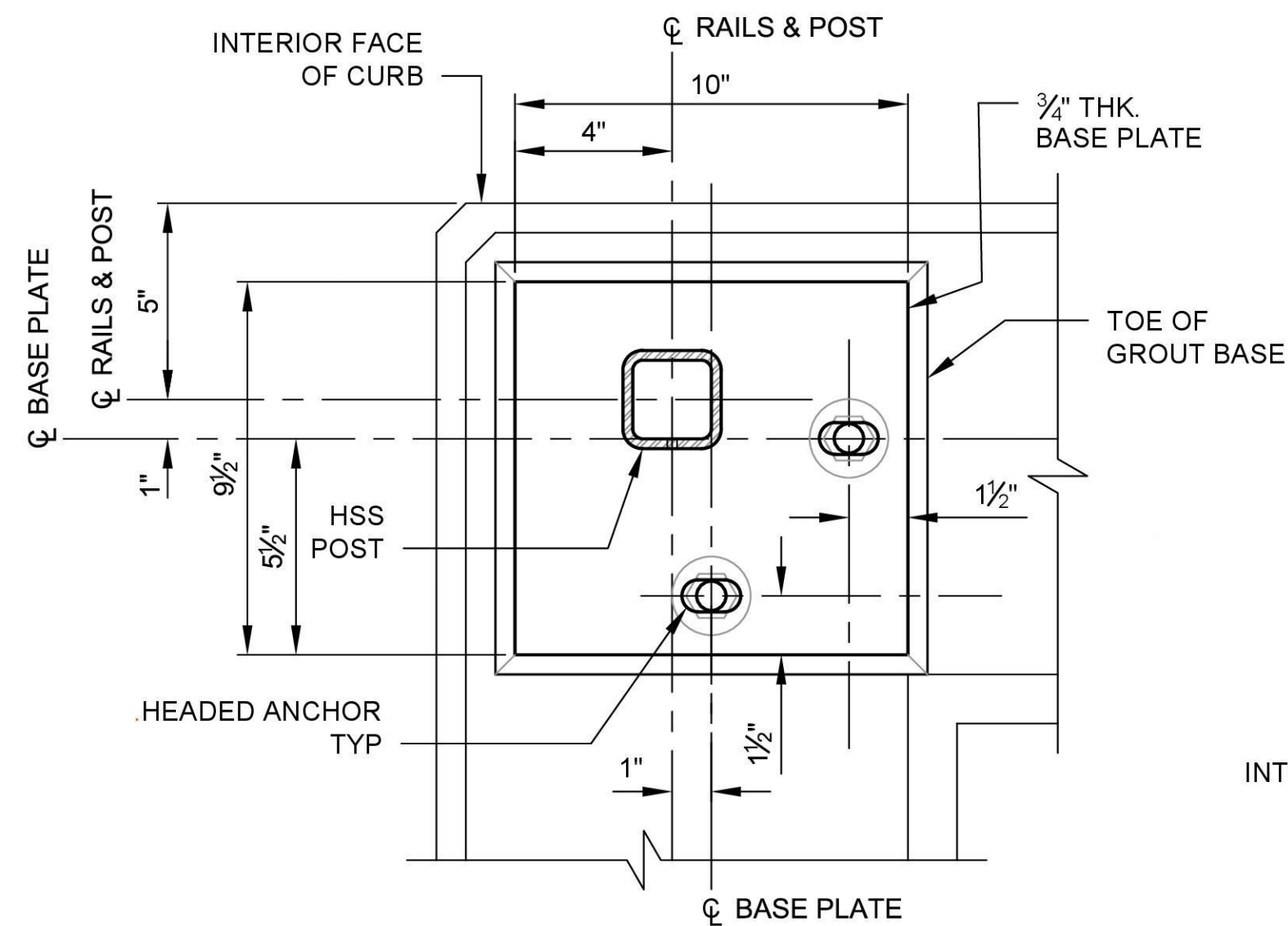


SECTION - TYP. GRAB RAIL TERMINATION AT EXP. JOINTS
SCALE: 6" = 1'-0"

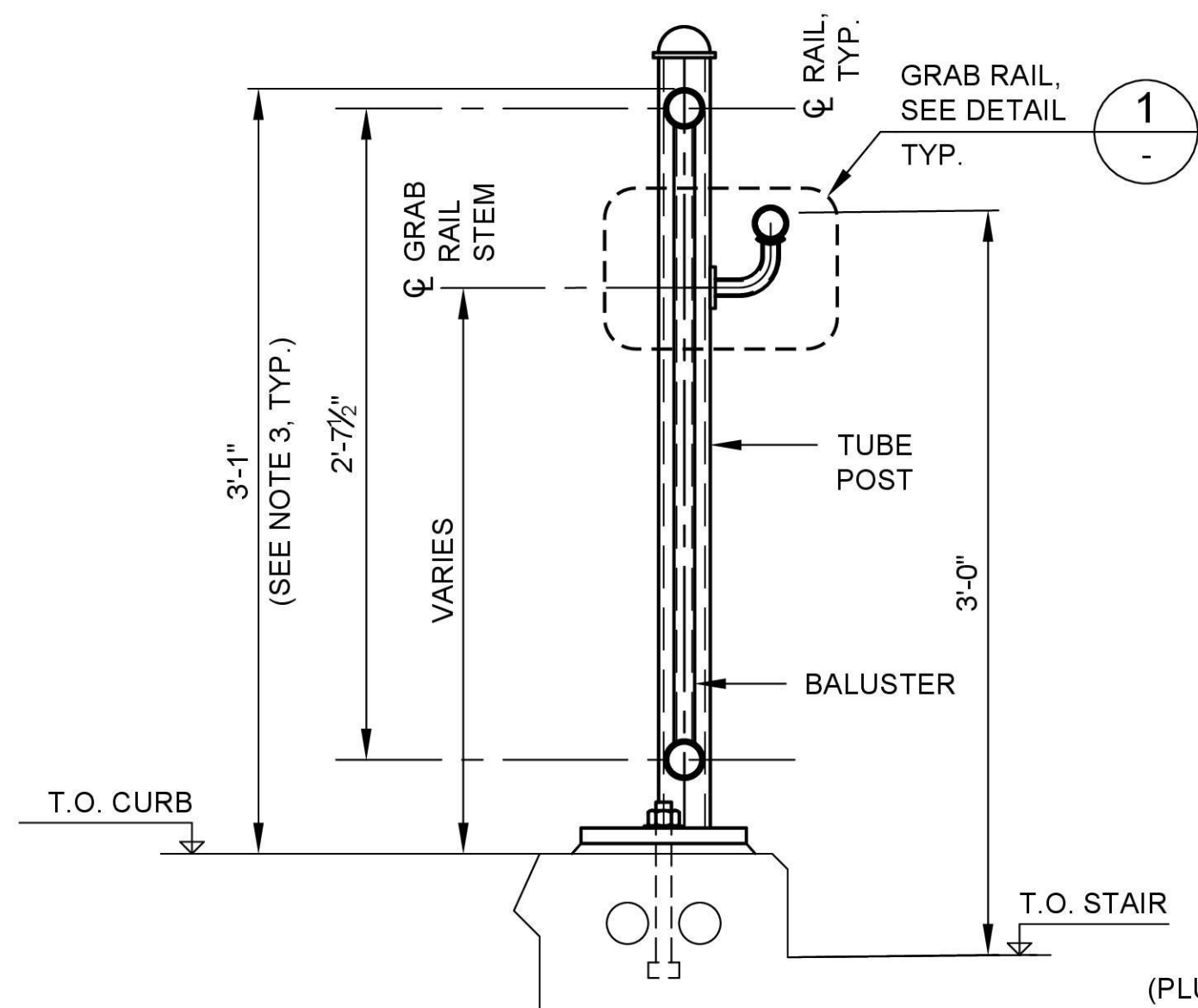


- ALL DETAILS TO MATCH TYPICAL ELEVATION UNLESS NOTED OTHERWISE ON THIS VIEW.
- ABUTMENT END CONDITION SHOWN.

ELEVATION - TYPICAL BRIDGE RAILING TERMINATION
SCALE: 1-1/2" = 1'-0"

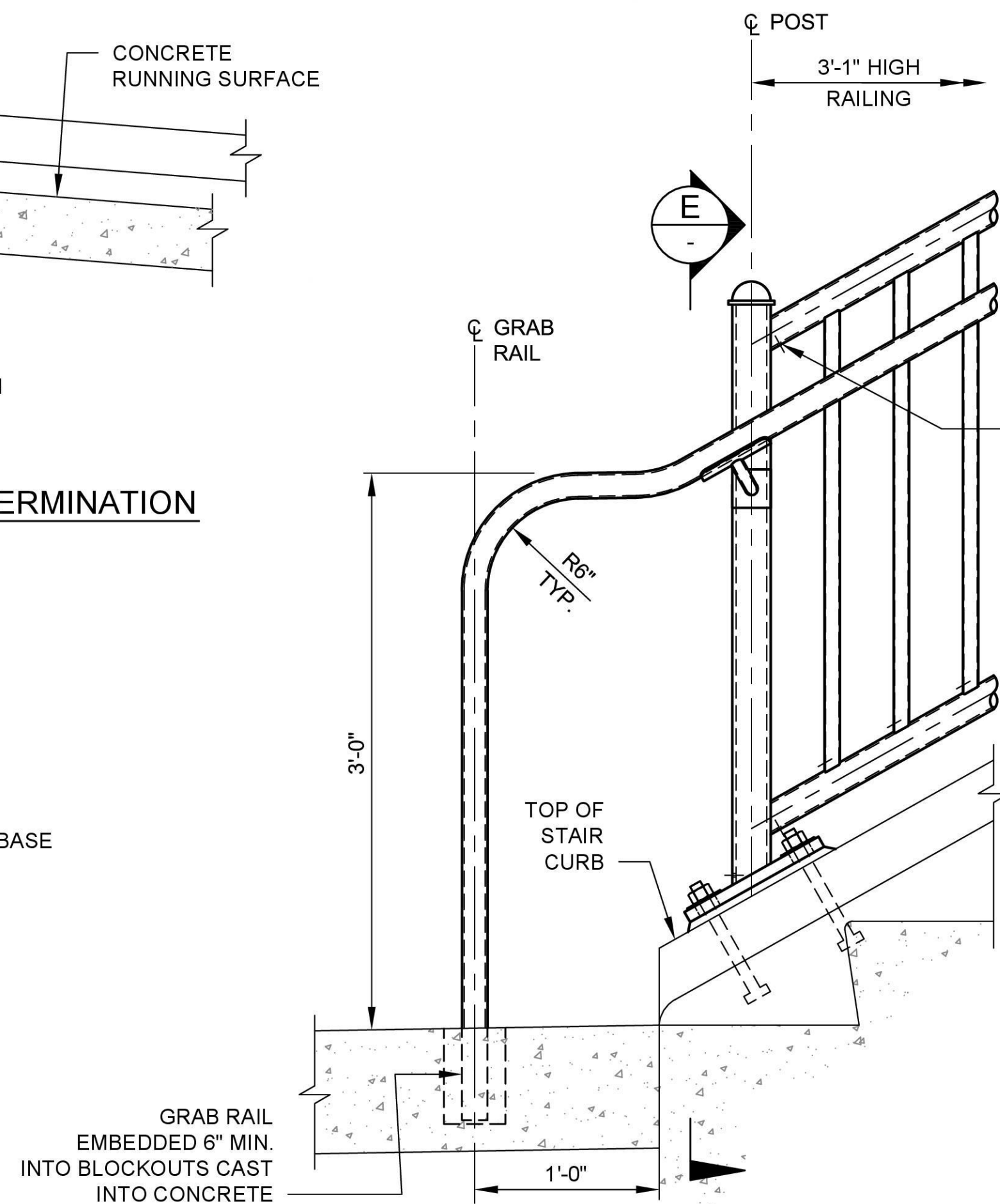


PLAN DETAIL AT WEST STAIR CORNER POST
SCALE: 3" = 1'-0"

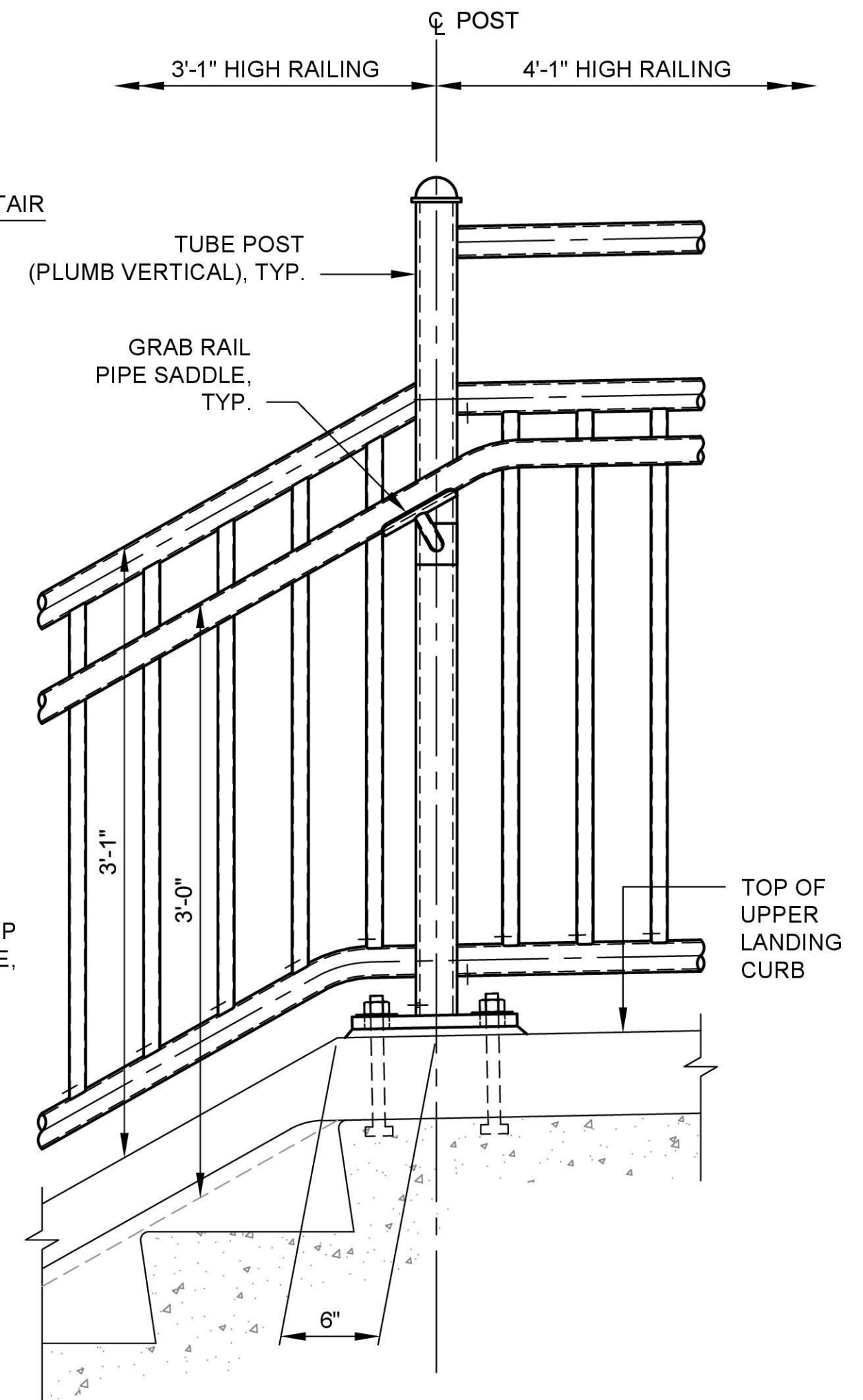


NOTE: ALL DETAILS TO MATCH TYPICAL SECTION 'A' ON SHEET S-64 UNO

TYPICAL SECTION - STAIR RAILING
SCALE: 1-1/2" = 1'-0"



BRIDGE RAILING
TYPICAL ELEVATION AT BASE OF STAIRS
SCALE: 1-1/2" = 1'-0"



BRIDGE RAILING
TYPICAL ELEVATION AT TOP OF STAIRS
SCALE: 1-1/2" = 1'-0"

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. FOR RAILING NOTES SEE SHEET S-64.
3. ALL STAIR RAILING VERTICAL DIMENSIONS GIVEN ARE PLUMB VERTICAL.

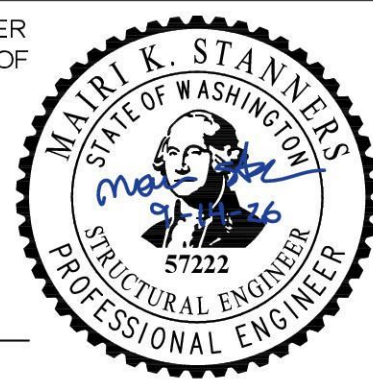
SHEET 65 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



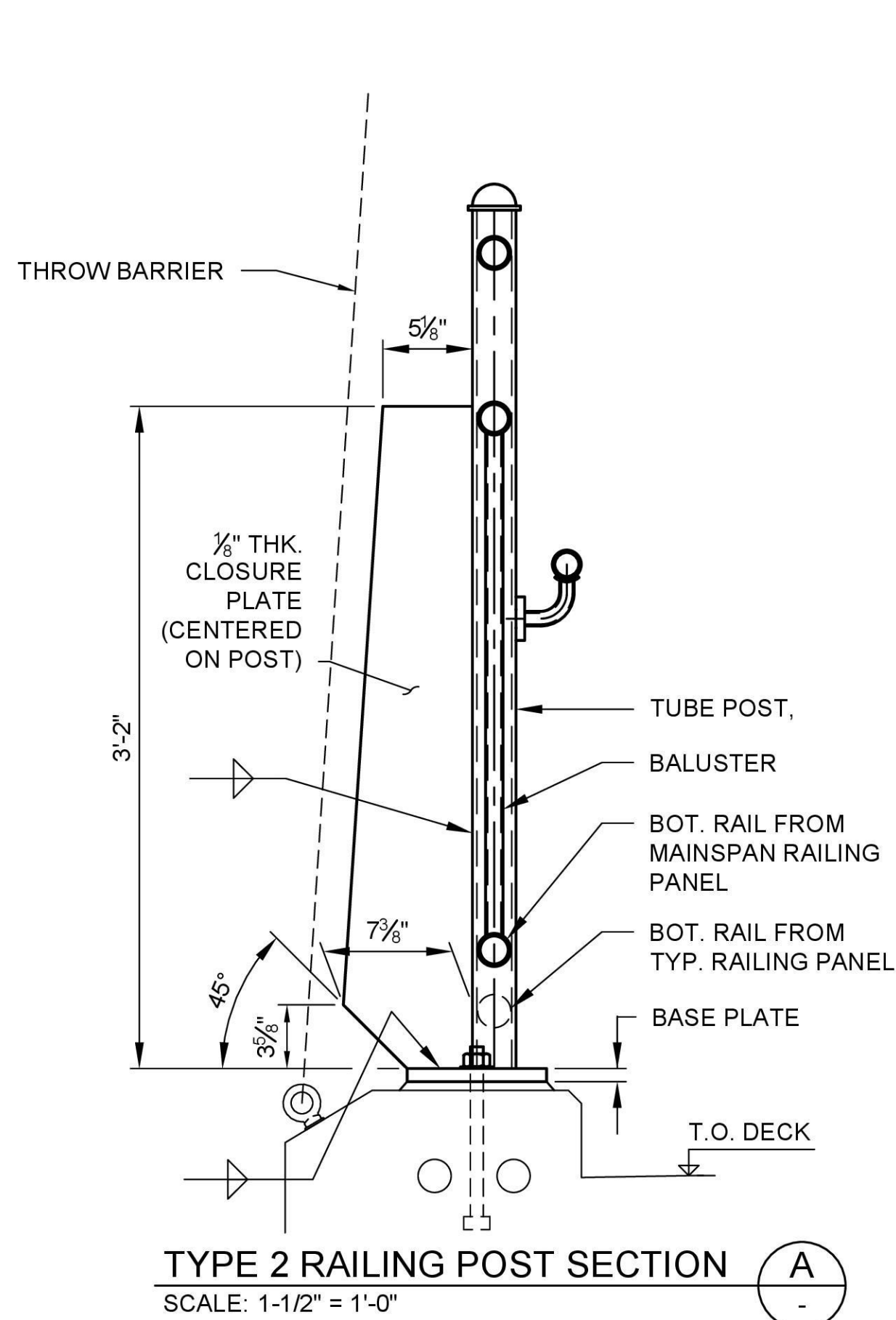
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026

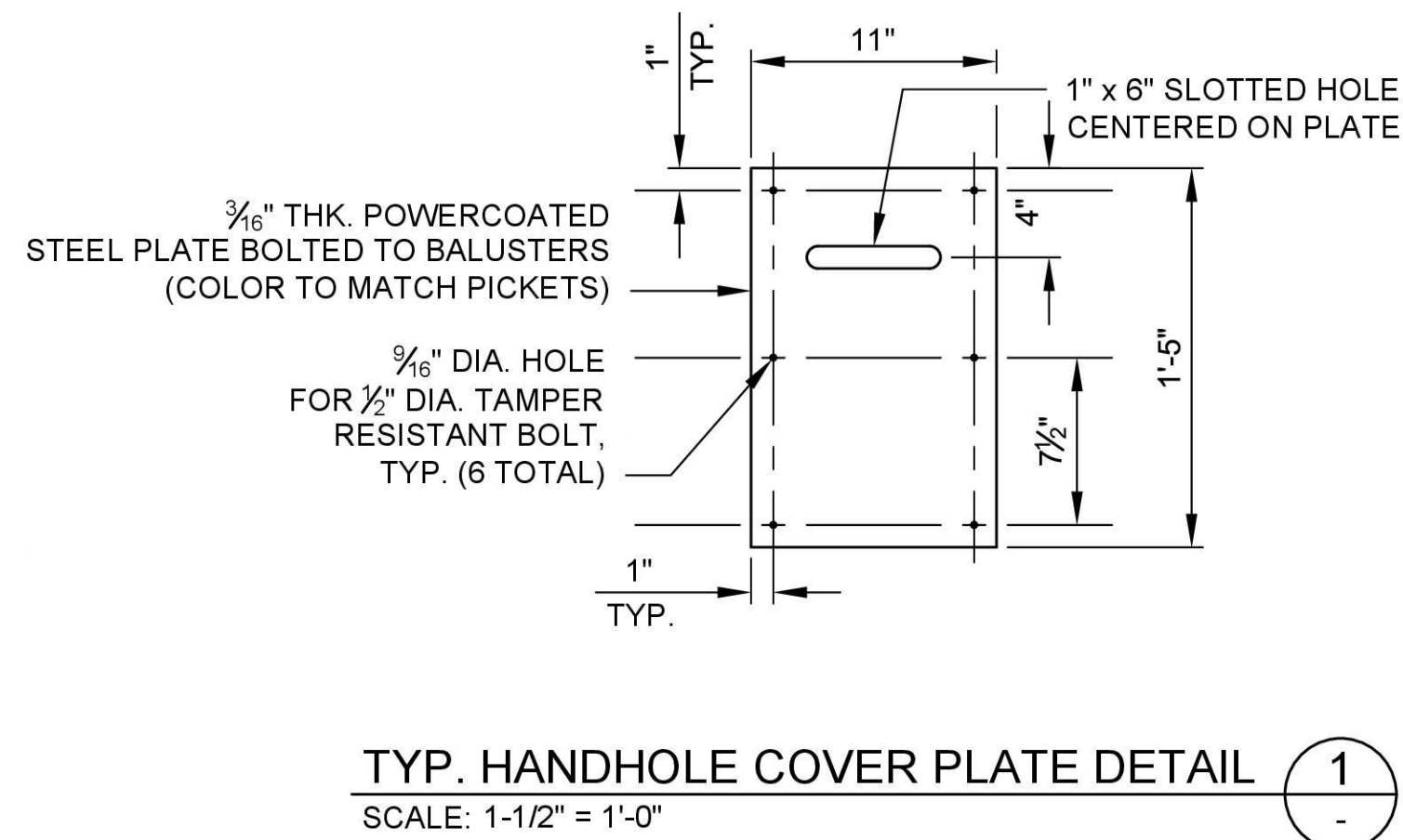
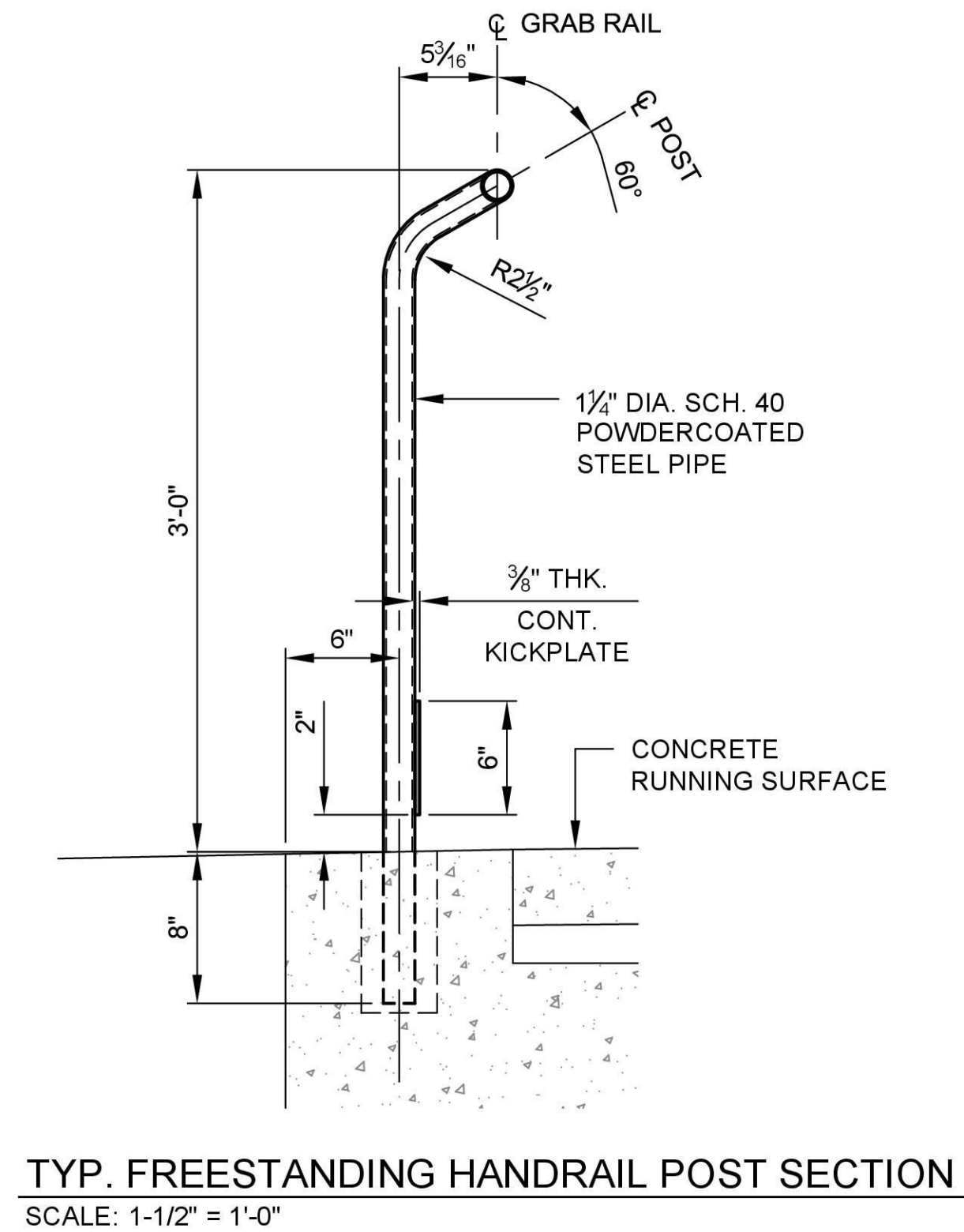
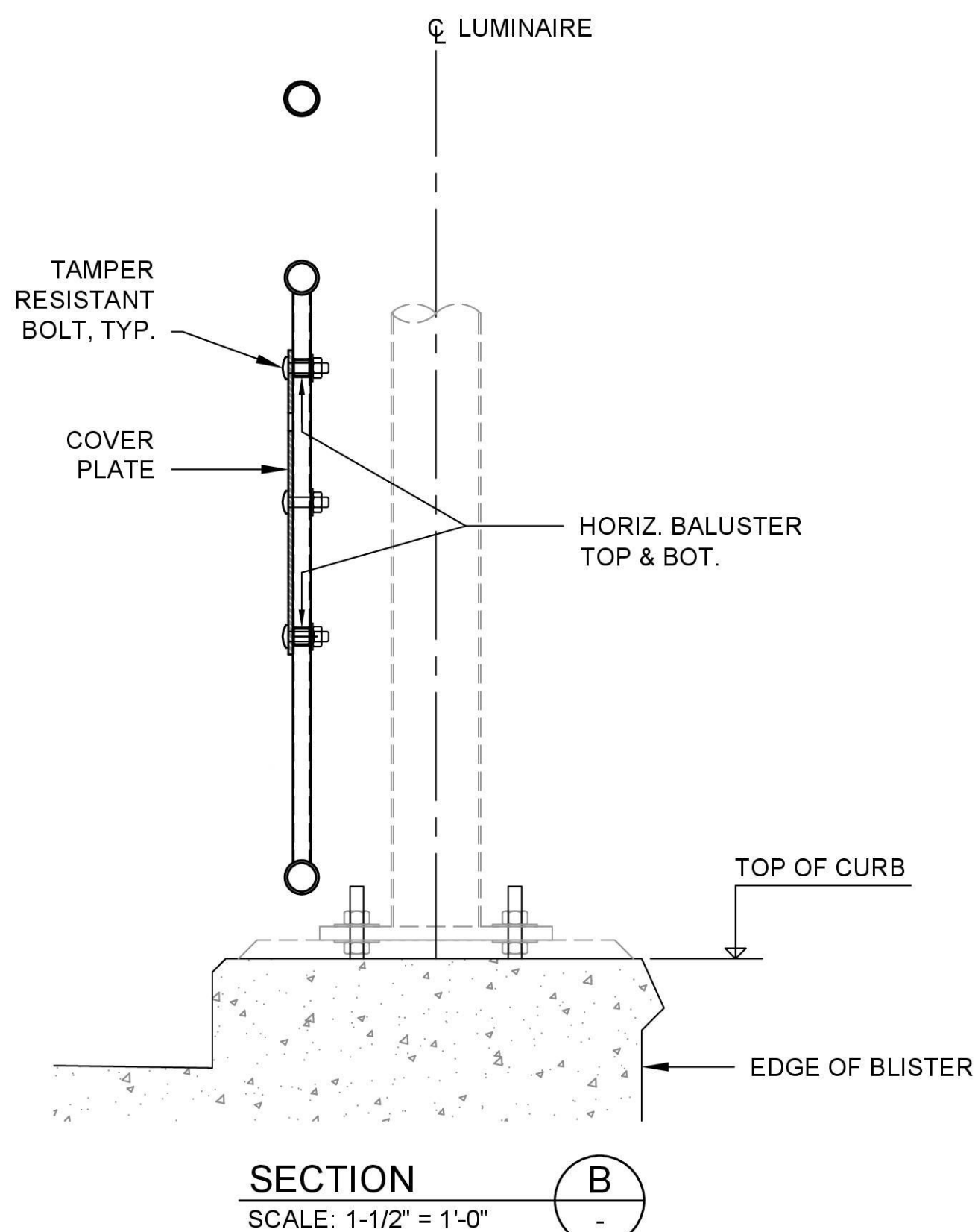
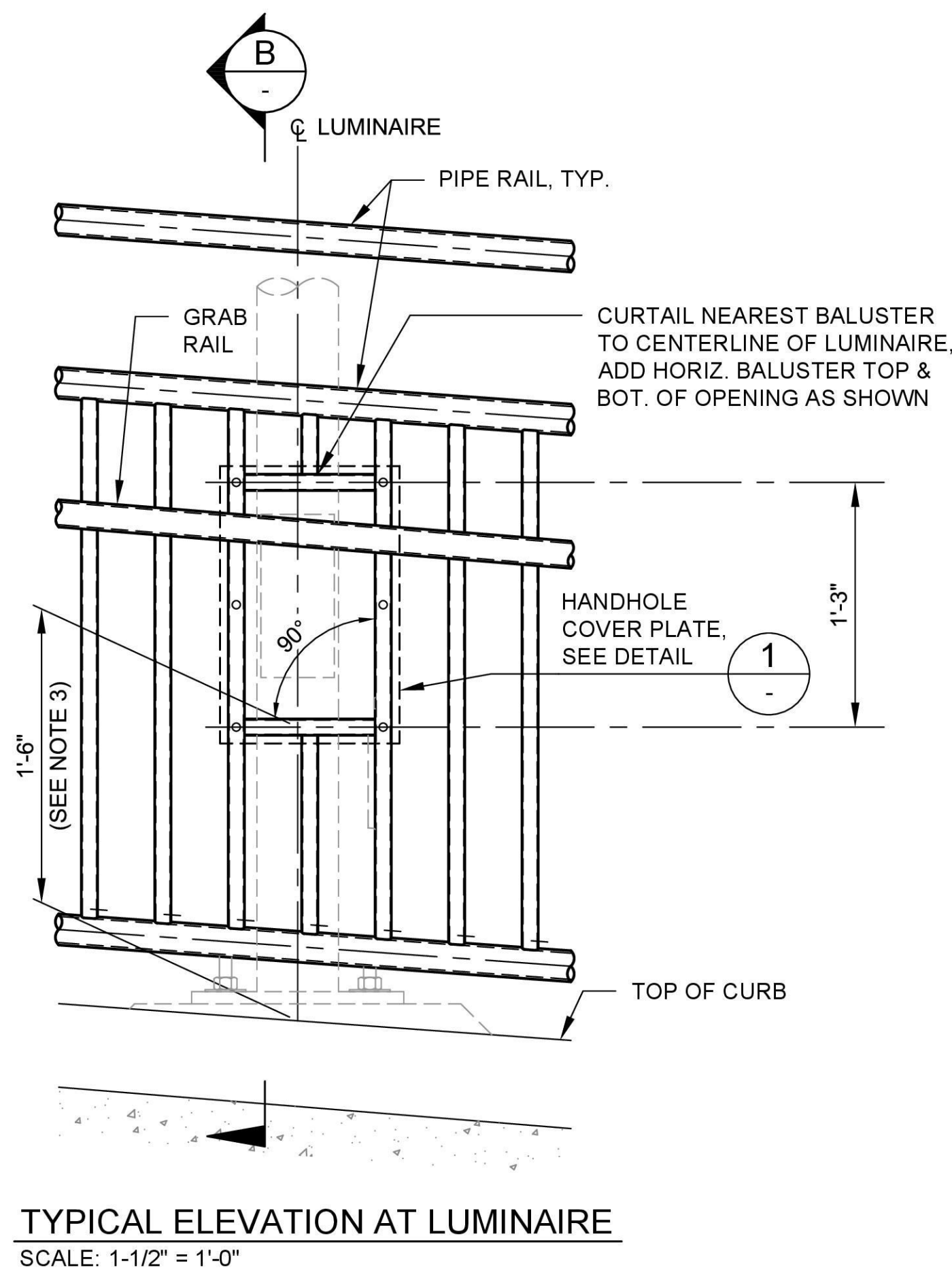


CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAILING DETAILS
SHEET 5

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S61_S66	
PROJECT No: 1262	
SHEET: S-65	REV: 0



NOTE: ALL DETAILS NOT SHOWN TO MATCH TYPE 1 POST SECTION 'A' ON SHEET S-64

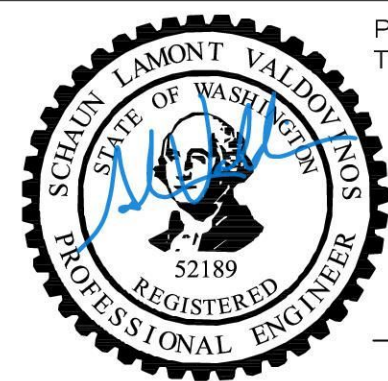


- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
 - FOR RAILING NOTES SEE SHEET S-64.
 - VERTICAL PLACEMENT OF ACCESS PANEL SHALL BE VERIFIED BASED UPON LUMINAIRE POLE SUPPLIER SPECIFICATIONS.

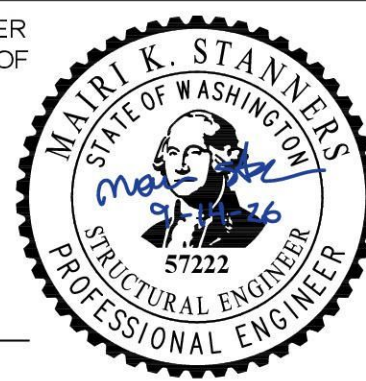
SHEET 66 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF
09-14-2026
DATE



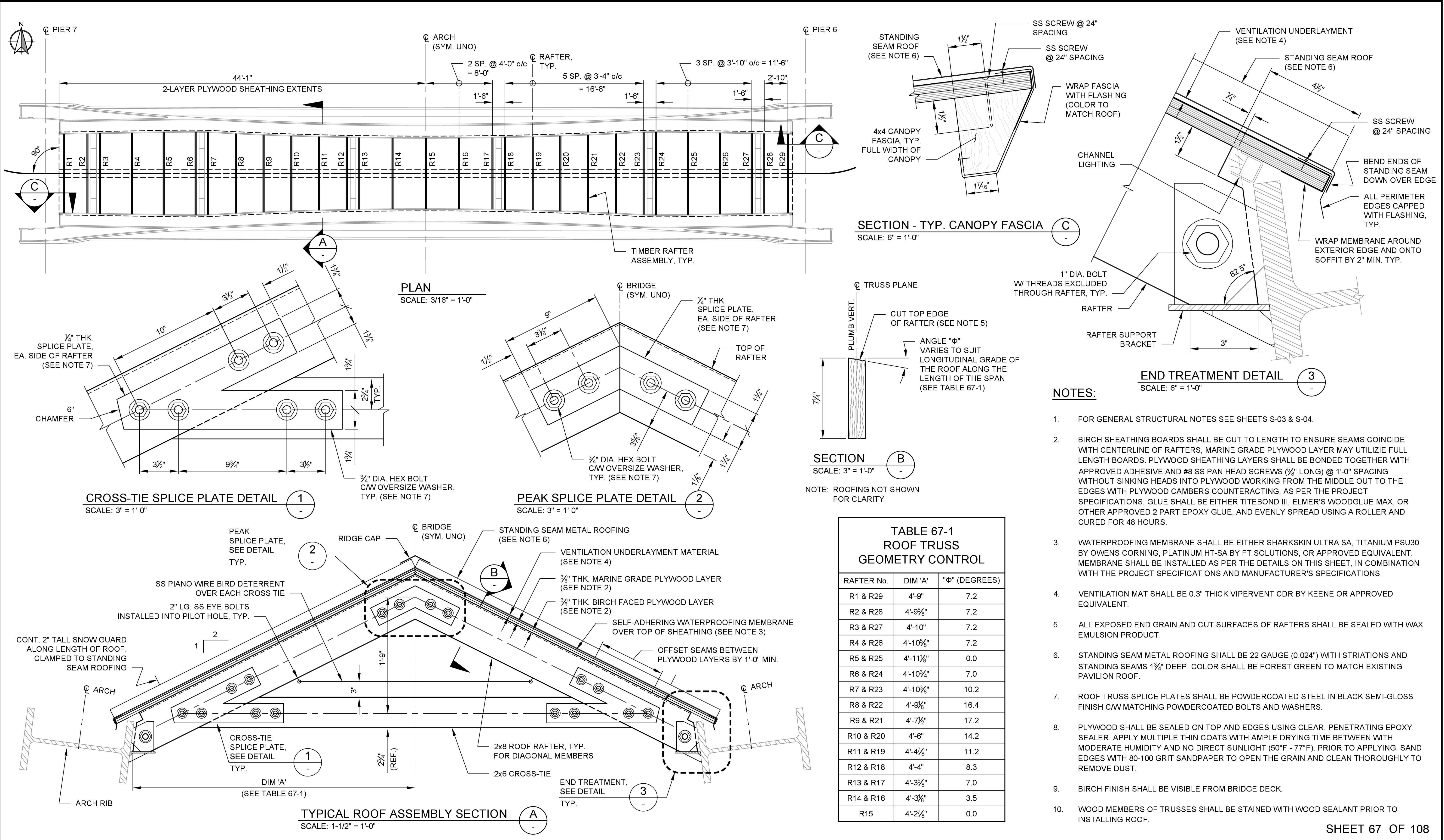
STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



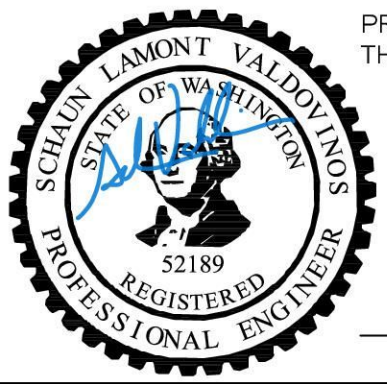
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
RAILING DETAILS
SHEET 6

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S61_S66	
PROJECT No: 1262	
SHEET: S-66	REV: 0



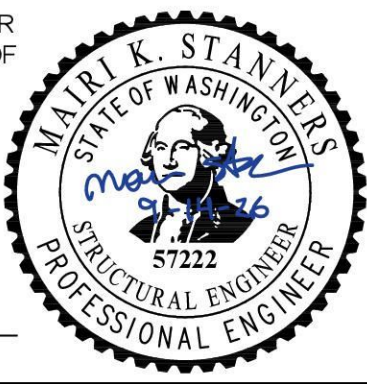
NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



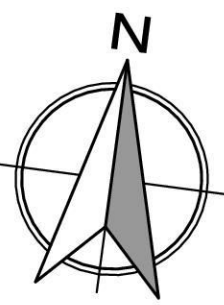
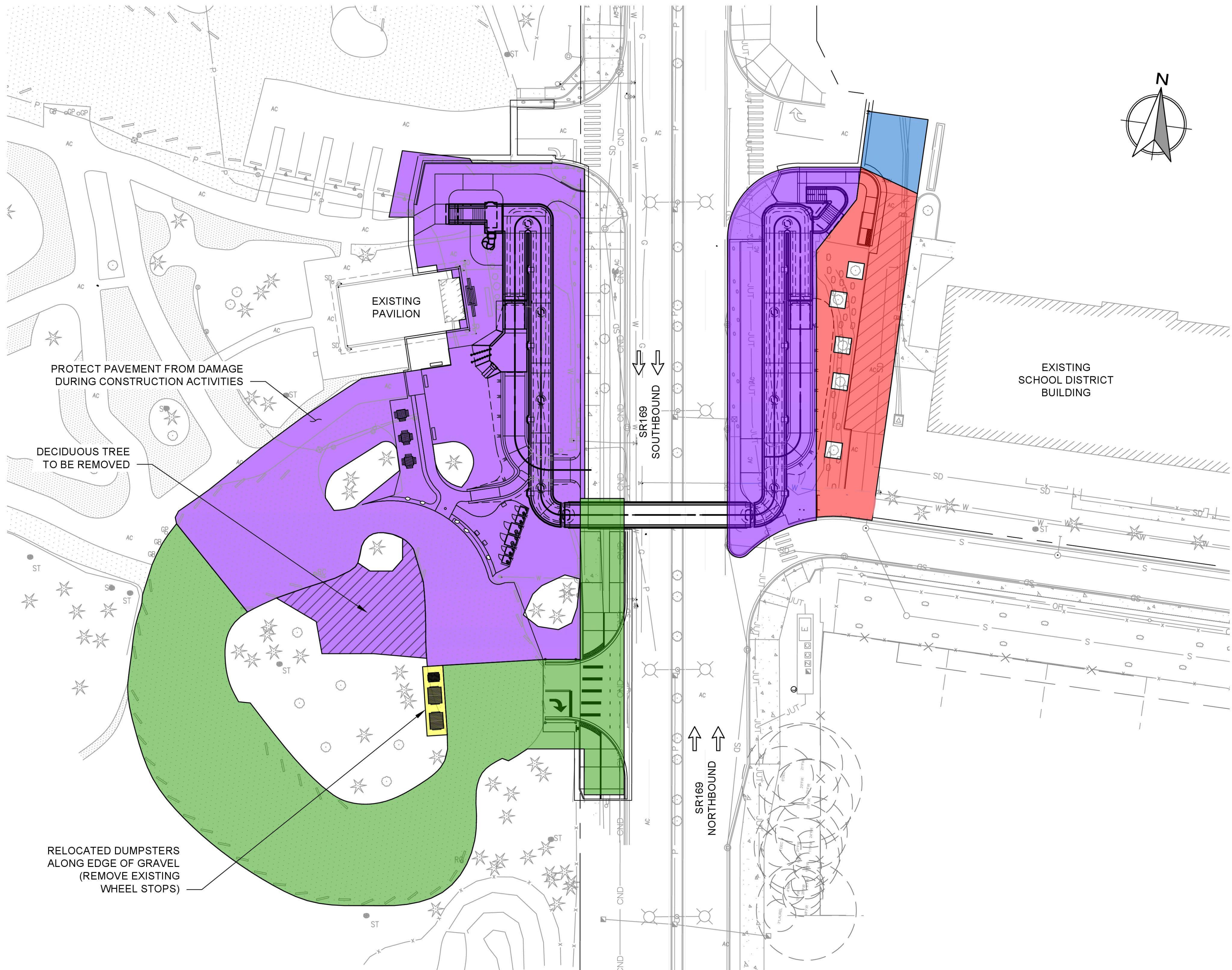
STRUCTURAL
DESIGN

DESIGNED: MAIRI STANNERS DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
MAINSpan ROOF DETAILS

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S67	
PROJECT No: 1262	
SHEET: S-67	REV: 0



LEGEND:

- FULL-TIME CONSTRUCTION STAGING AREA
- FULL-TIME CONSTRUCTION STAGING AREA WITH PROTECTION AGAINST COMPACTION
- TEMPORARY CONSTRUCTION EASEMENT (SEE NOTE 5)
- TEMPORARY CONSTRUCTION EASEMENT (SITE ACCESS ONLY, SEE NOTE 5)
- TEMPORARY RELOCATION OF DUMPSTER DURING CONSTRUCTION
- CONSTRUCTION STAGING USE DURING WORKING DAYS AND OPENED FOR FARMER'S MARKET ACCESS DURING WEEKENDS

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
- PEDESTRIAN AND CYCLING TRAFFIC SHALL BE MAINTAINED ALONG EACH SIDE OF SR-169 FOR THE DURATION OF CONSTRUCTION. NOTICE OF TEMPORARY CLOSURES SHALL BE ANNOUNCED ON THE VMS WITH DETOURS MARKED AT THE ADJACENT ROUNDABOUTS.
- TREES SHALL BE PROTECTED PER THE SPECIFICATIONS AND COMPACTION CAREFULLY PREVENTED OVER THE ROOT MASS.
- CONTRACTOR SHALL PROTECT THE FULL-TIME CONSTRUCTION STAGING AREAS WITH SECURITY FENCING.
- ACTIVITIES WITHIN TEMPORARY CONSTRUCTION EASEMENT SHALL ADHERE TO THE AGREEMENT BETWEEN THE CITY OF MAPLE VALLEY AND TAHOMA SCHOOL DISTRICT (PROVIDED IN THE APPENDIX OF THE CONTRACT PROVISIONS).

PLAN
SCALE: 1" = 30'

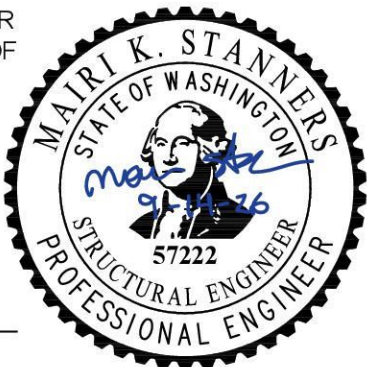
NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG DATE: 09/14/2026
DRAWN: SCOTT VARNEY DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS DATE: 09/14/2026



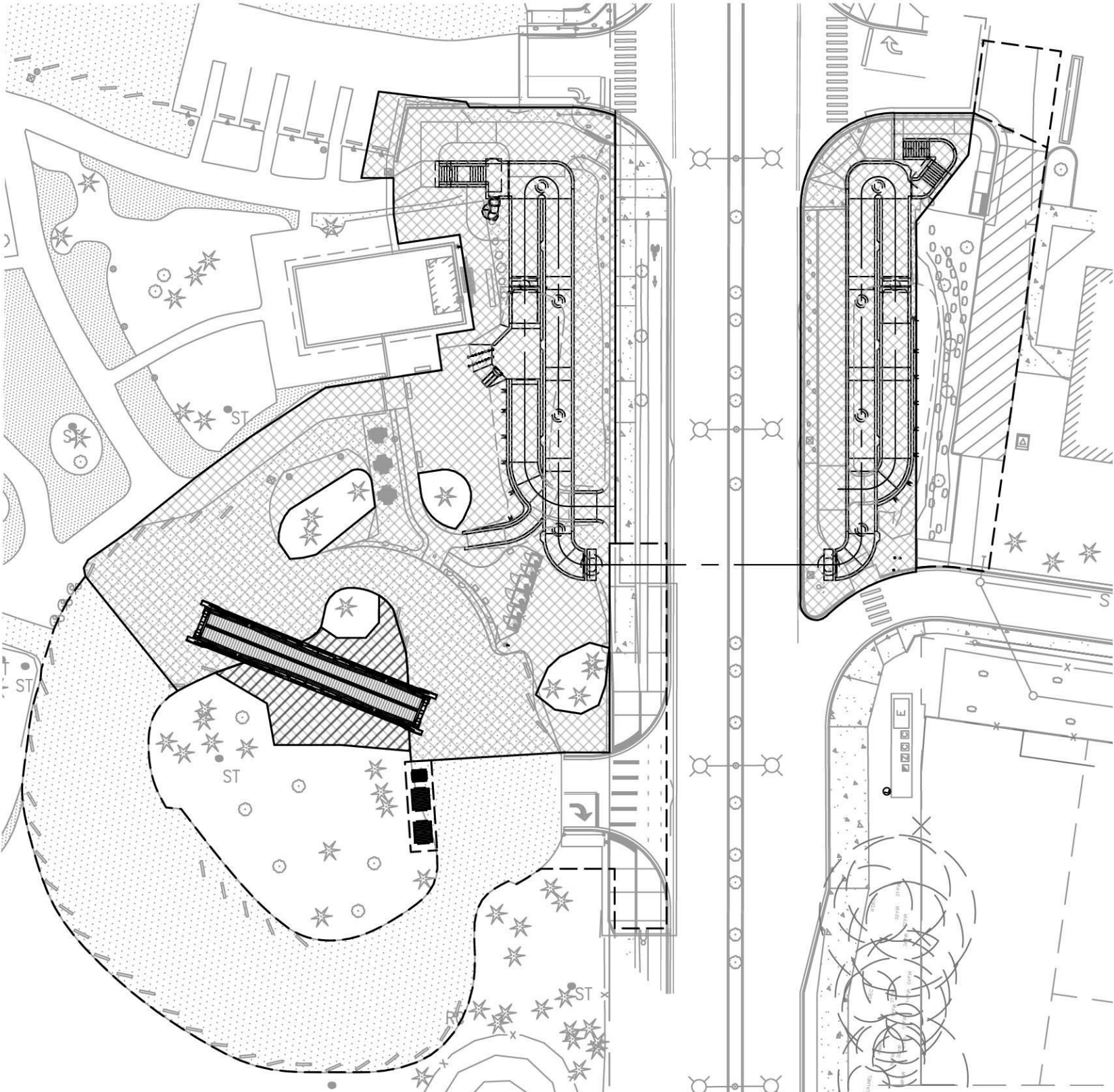
CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE

CONSTRUCTION STAGING AREAS

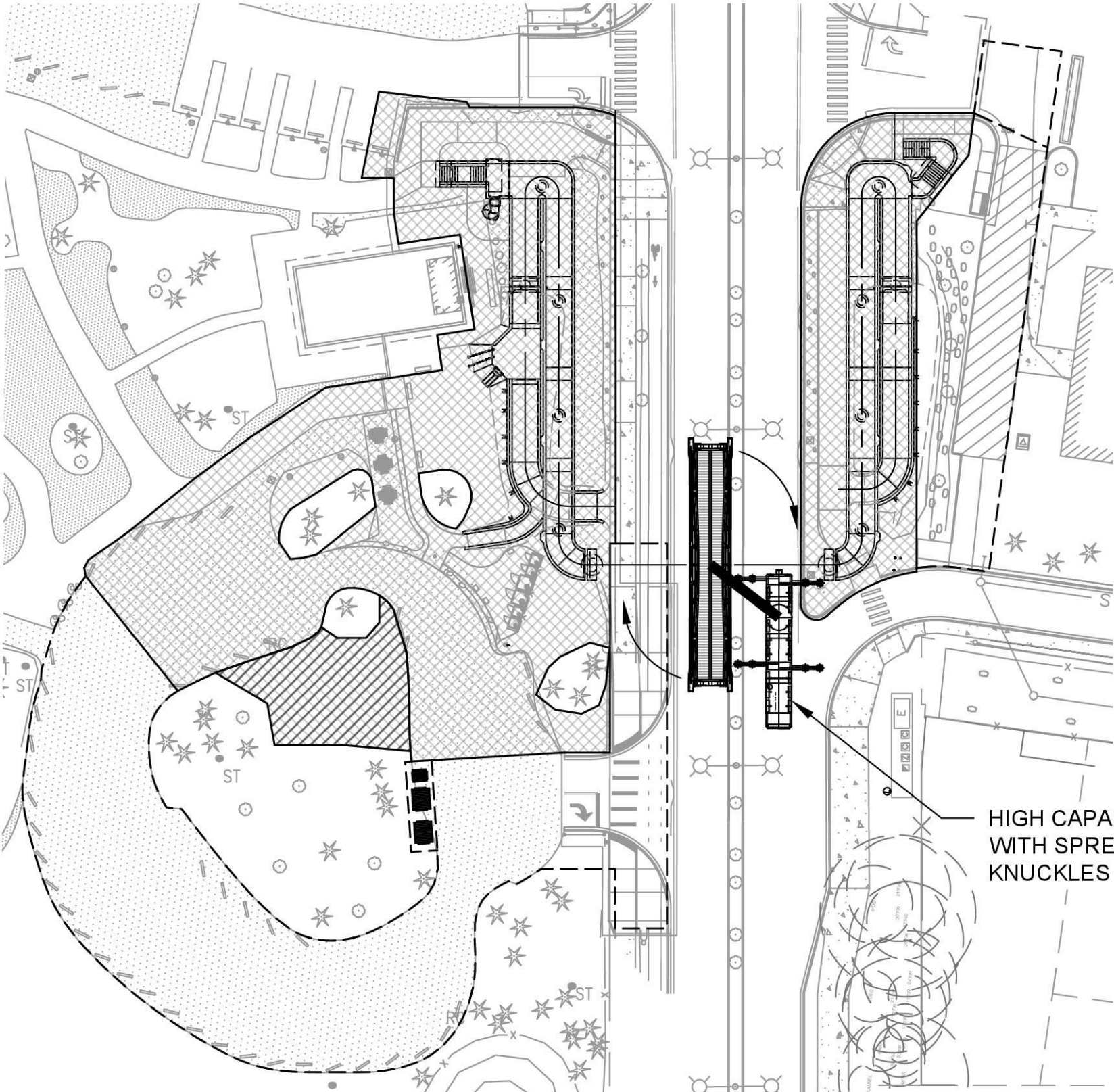
SCALE: AS SHOWN	
FILENAME: 1262-DWG-S68	
PROJECT No: 1262	
SHEET: S-68	REV: 0

SUGGESTED CONSTRUCTION SEQUENCE:

1. CONSTRUCT TEMPORARY ACCESS DRIVEWAY TO SOUT PARKING LOT AT LEGACY SITE.
2. PREPARE STAGING AREA IN LEGACY SITE PARKING LOT.
3. POST PEDESTRIAN DETOUR SIGNS.
4. INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE.
INSTALL TESC.
CLEAR AND GRUB AT EMBANKMENTS, ABUTMENT & PIERS.
CALL FOR LOCATES AND POT HOLE JUT.
RELOCATED WATER AND POWER UTILITIES AS SHOWN ON PLANS.
5. CLEAR DESIGNATED TREES AS SHOWN ON THE PLANS.
6. INSTALL DRILLED SHAFTS AND SPREAD FOOTING FOUNDATIONS AT EACH SUBSTRUCTURE LOCATION.
7. FORM AND POUR CONCRETE FOR SUBSTRUCTURE ELEMENTS.
8. INSTALL BEARINGS.
9. FORM AND POUR CONCRETE FOR APPROACH SPAN GIRDERS AND DECK SLABS.
10. PRE-FABRICATE STEELWORK IN OFFSITE SHOP FACILITIES. PRIME THE STEELWORK, MASKING OFF FIELD SPICE LOCATIONS.
11. TRANSPORT STEELWORK TO SITE AND ERECT ARCH SUPERSTRUCTURE, APPLY PAINT MID- AND TOPCOATS, AND INSTALL ROOF CANOPY IN STAGING AREA.
12. DURING NIGHT CLOSURE OF HIGHWAY, TRANSPORT ARCH SUPERSTRUCTURE AND CONDUCT TANDEM LIFT TO PLACE ARCH ON MAIN PIERS.
13. DURING NIGHT CLOSURE OF HIGHWAY, POUR CONCRETE DECK ON ARCH SUPERSTRUCTURE.
14. CONSTRUCT APPROACH WALLS AND FILL EMBANKMENTS.
CONSTRUCT CONCRETE APPROACH SLABS.
15. INSTALL RAILING POSTS AND CABLE INFILL.
16. INSTALL ELECTRICAL AND LIGHTING.
17. INSTALL STORM AND INFILTRATION TRENCHES.
18. INSTALL LANDSCAPING AND PLAY AREA FEATURES AND COMPLETE SITE RESTORATION.
19. COMPLETE SIDEWALK IMPROVEMENTS AND DRIVEWAY MODIFICATIONS ON BOTH SIDES OF THE BRIDGE.
20. DEMOBILIZE FROM THE SITE.

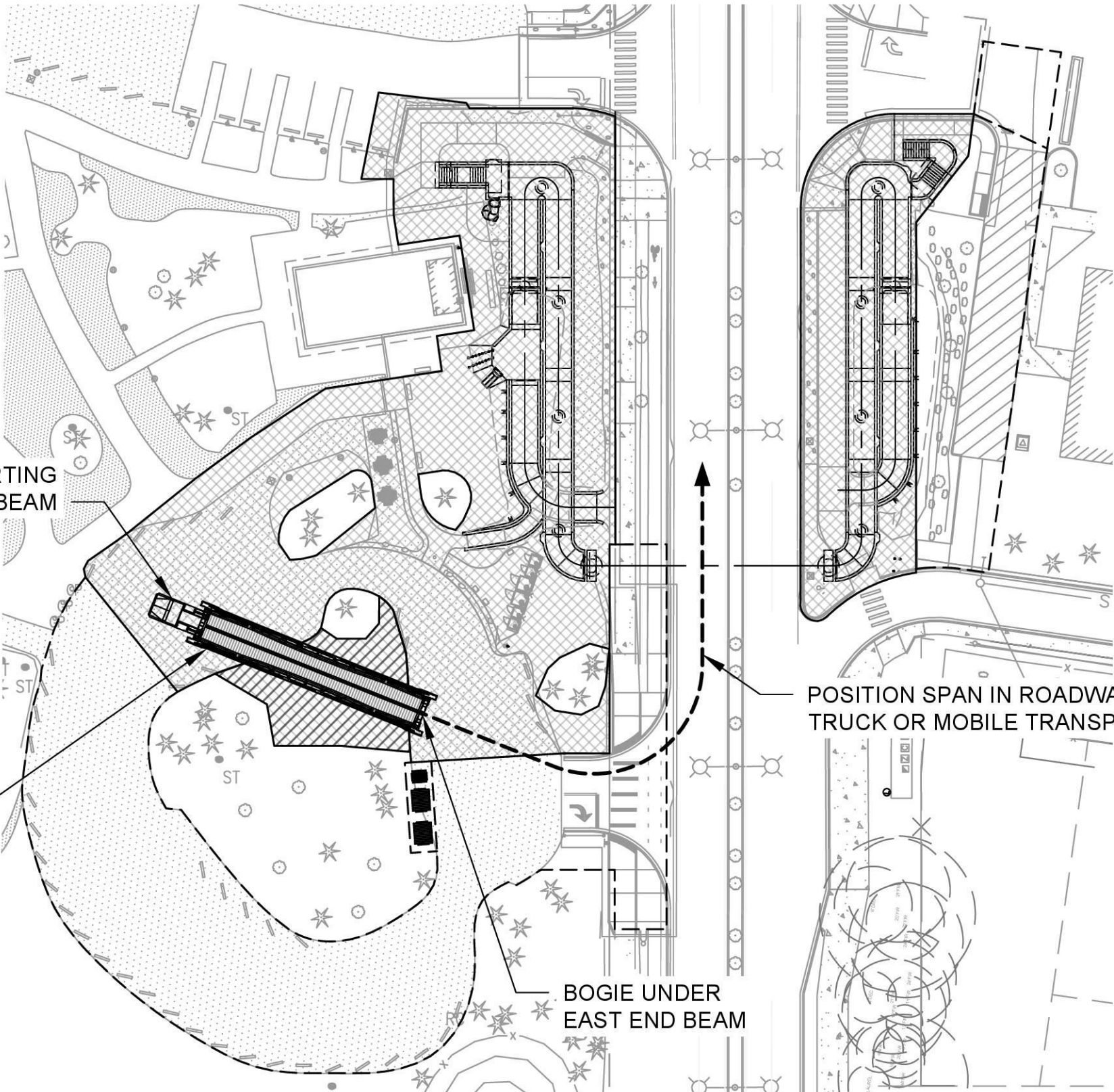


PLAN - STAGE 10
SCALE: 1" = 50'

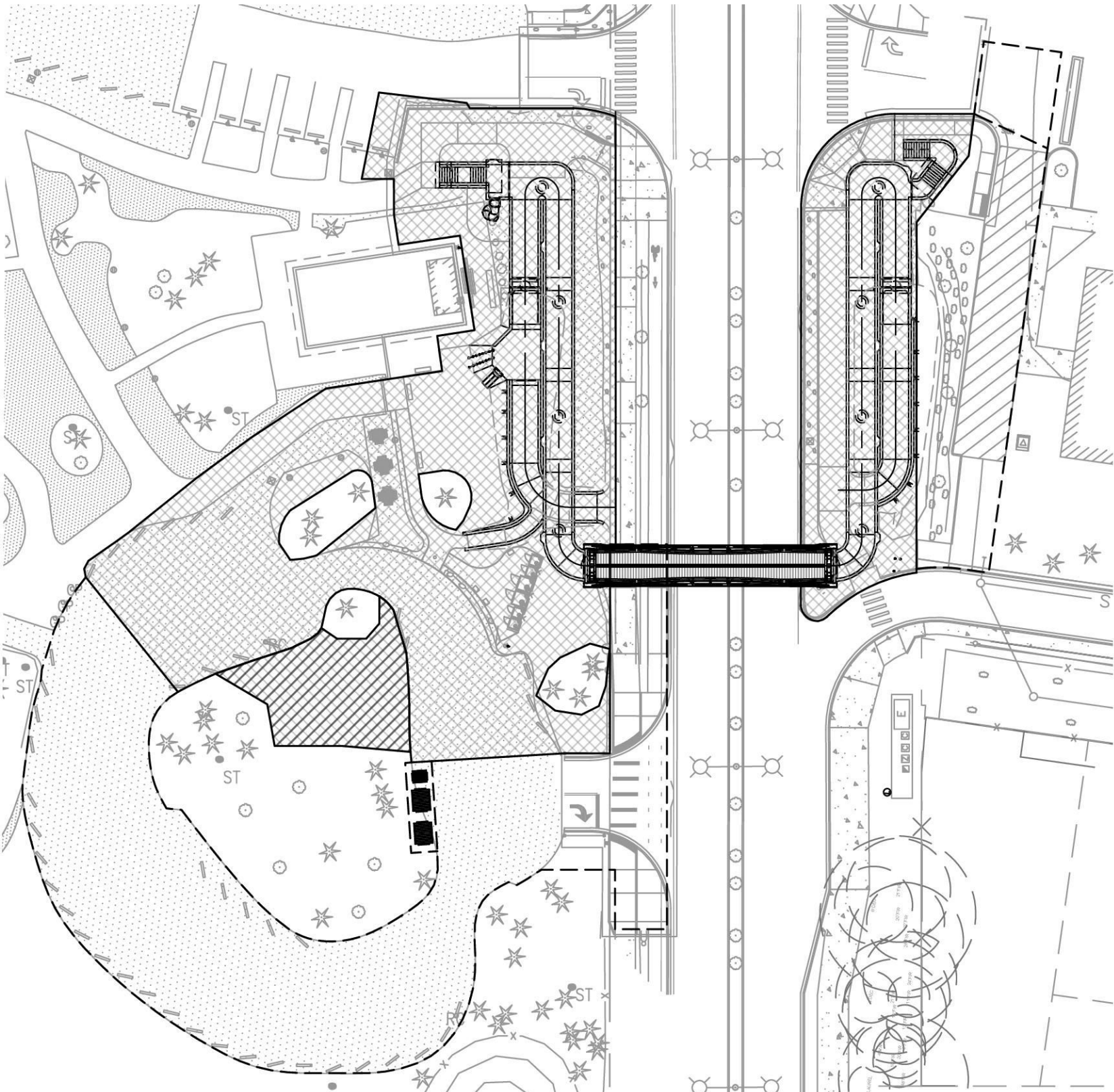


PLAN - STAGE 11-B
SCALE: 1" = 50'

HIGH CAPACITY PICK AT ARCH CENTROID
WITH SPREADER BEAM AND SLINGS AT
KNUCKLES TO AVOID DAMAGE TO ROOF



PLAN - STAGE 11-A
SCALE: 1" = 50'



PLAN - STAGE 11-C
SCALE: 1" = 50'

TRUCK CAB SUPPORTING
WEST END BEAM

TEMPORARY ROLLOVER STRUTS
SECURED UNDER EACH KNUCKLE

POSITION SPAN IN ROADWAY USING
TRUCK OR MOBILE TRANSPORTER

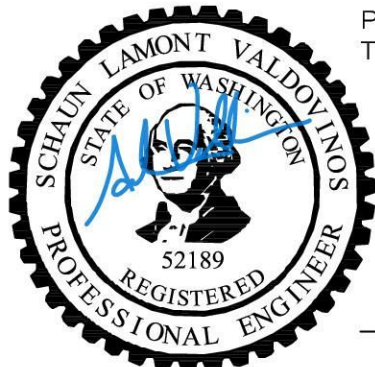
BOGIE UNDER
EAST END BEAM

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.

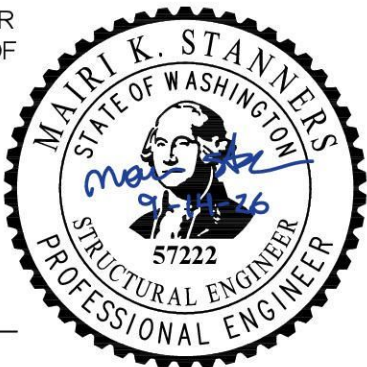
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CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MS



PREPARED UNDER
THE DIRECTION OF

09-14-2026
DATE



STRUCTURAL
DESIGN

DESIGNED: CHELENE WONG	DATE: 09/14/2026
DRAWN: SCOTT VARNEY	DATE: 09/14/2026
CHECKED: SCHAUN VALDOVINOS	DATE: 09/14/2026

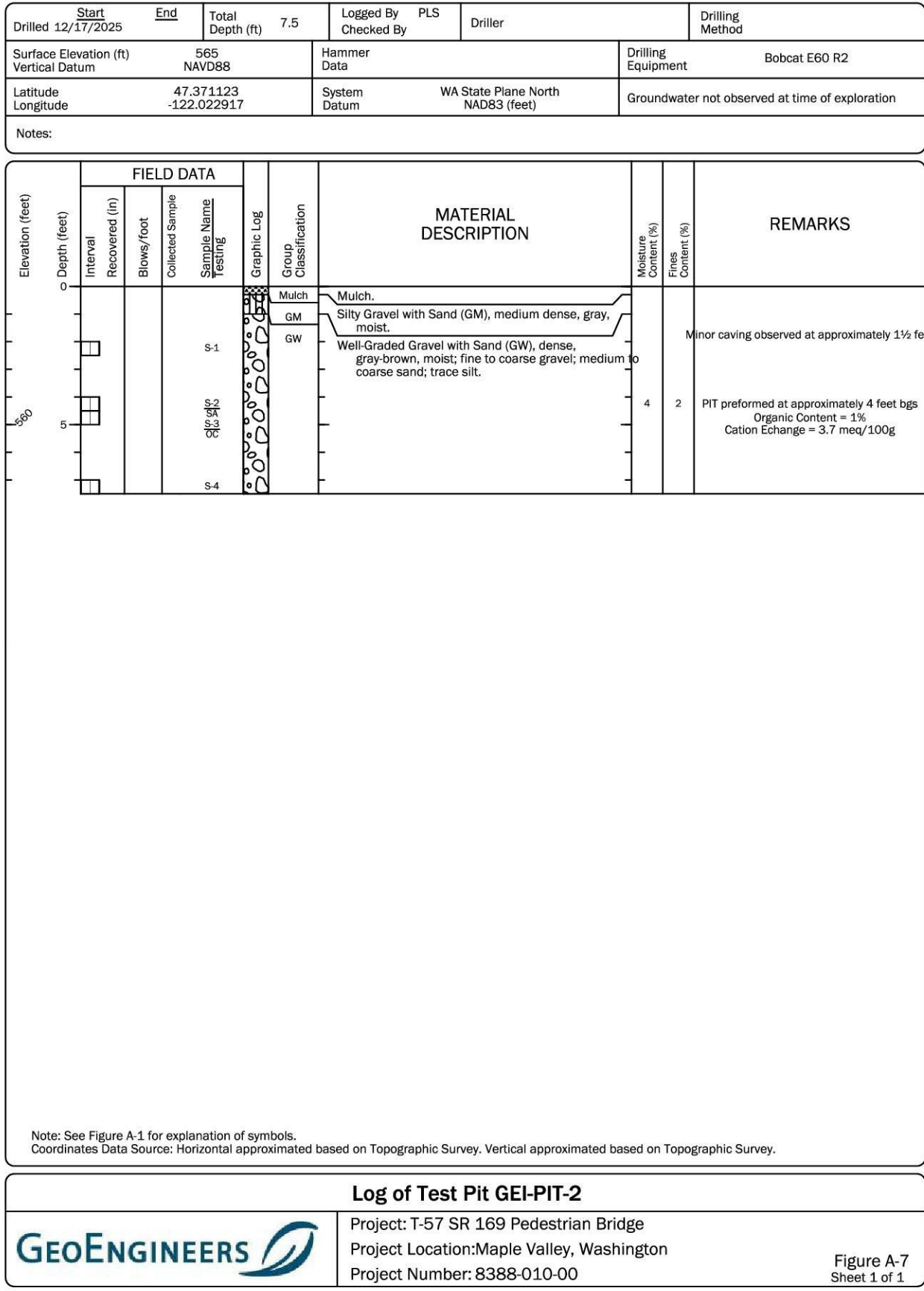
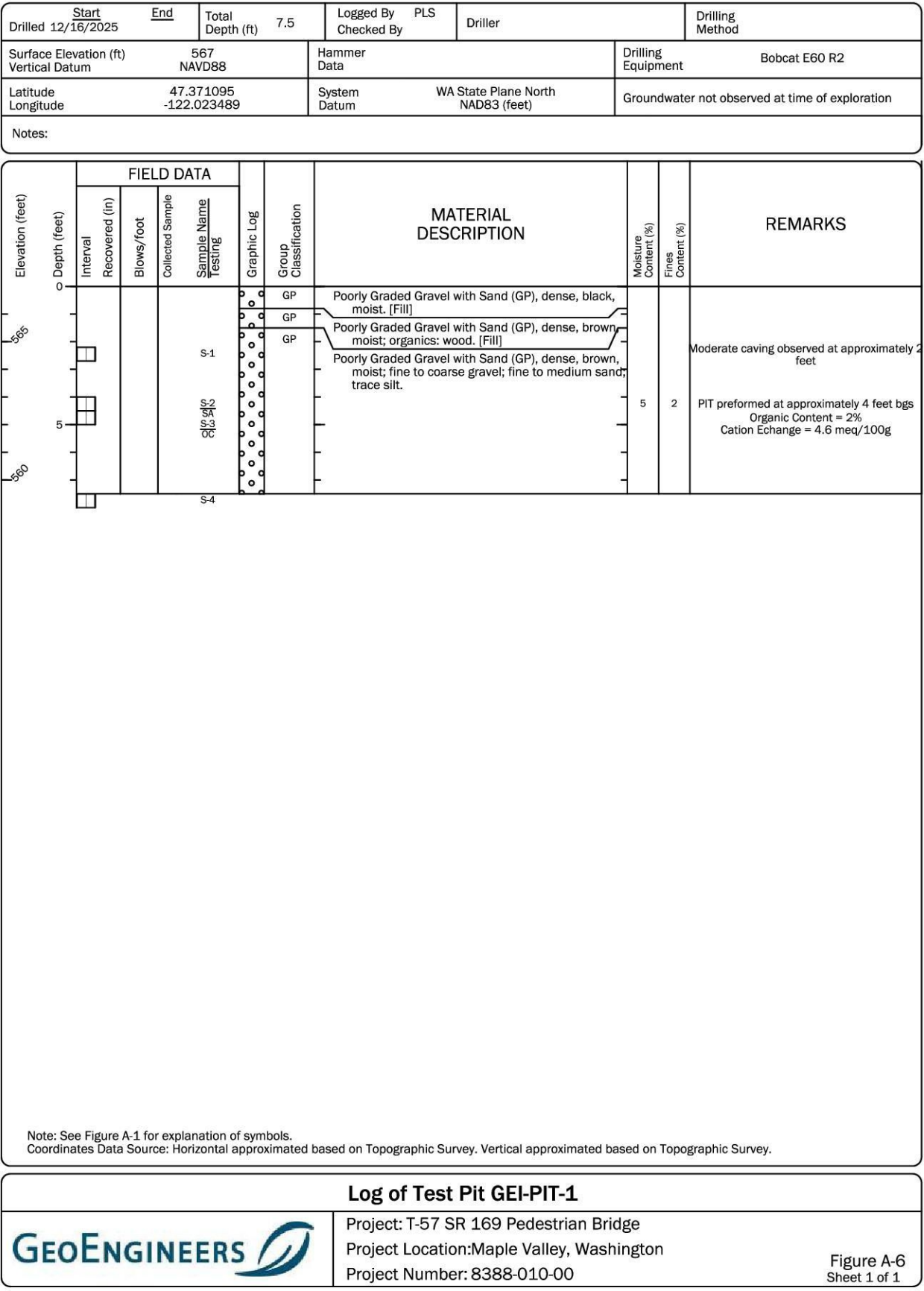
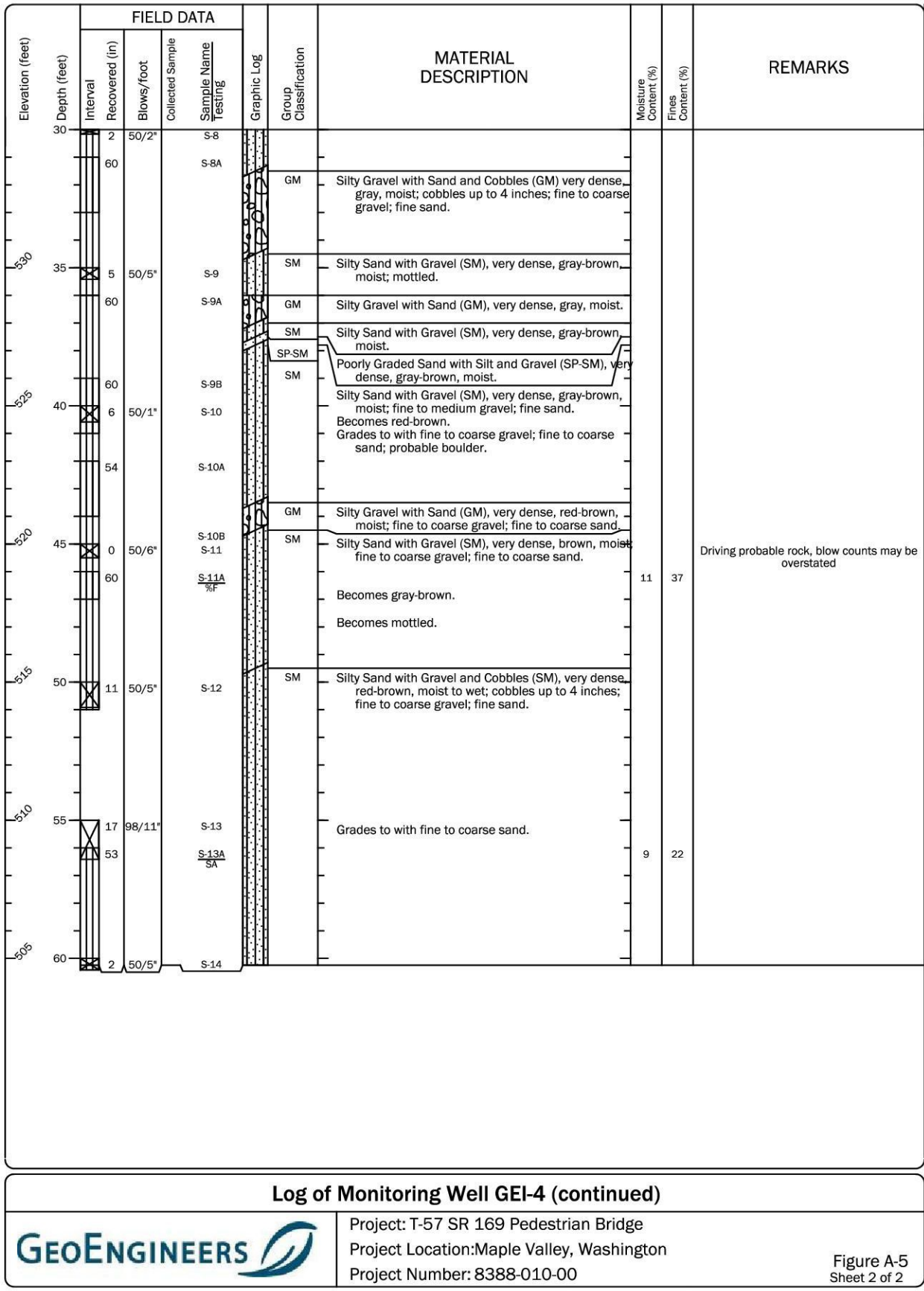
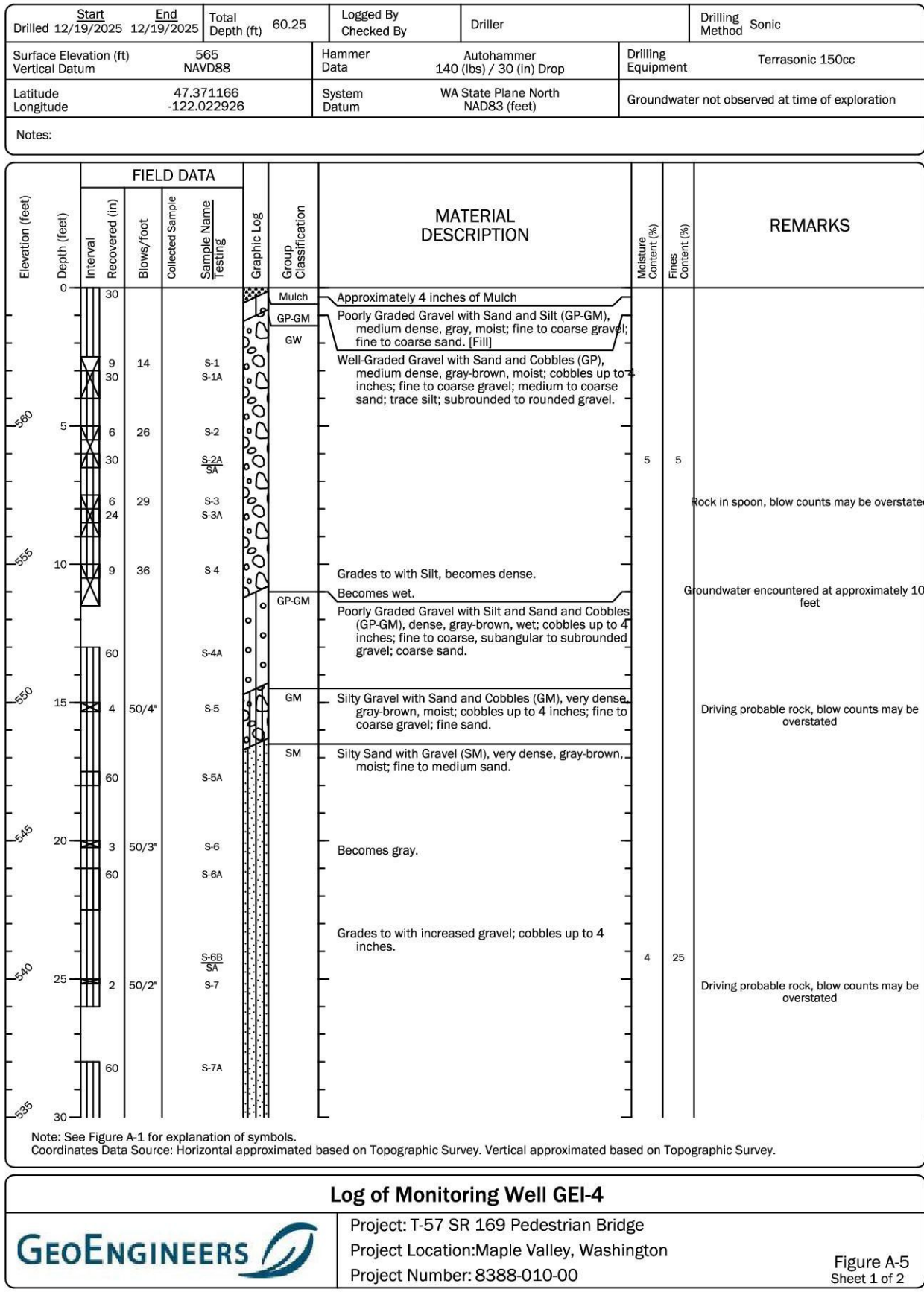
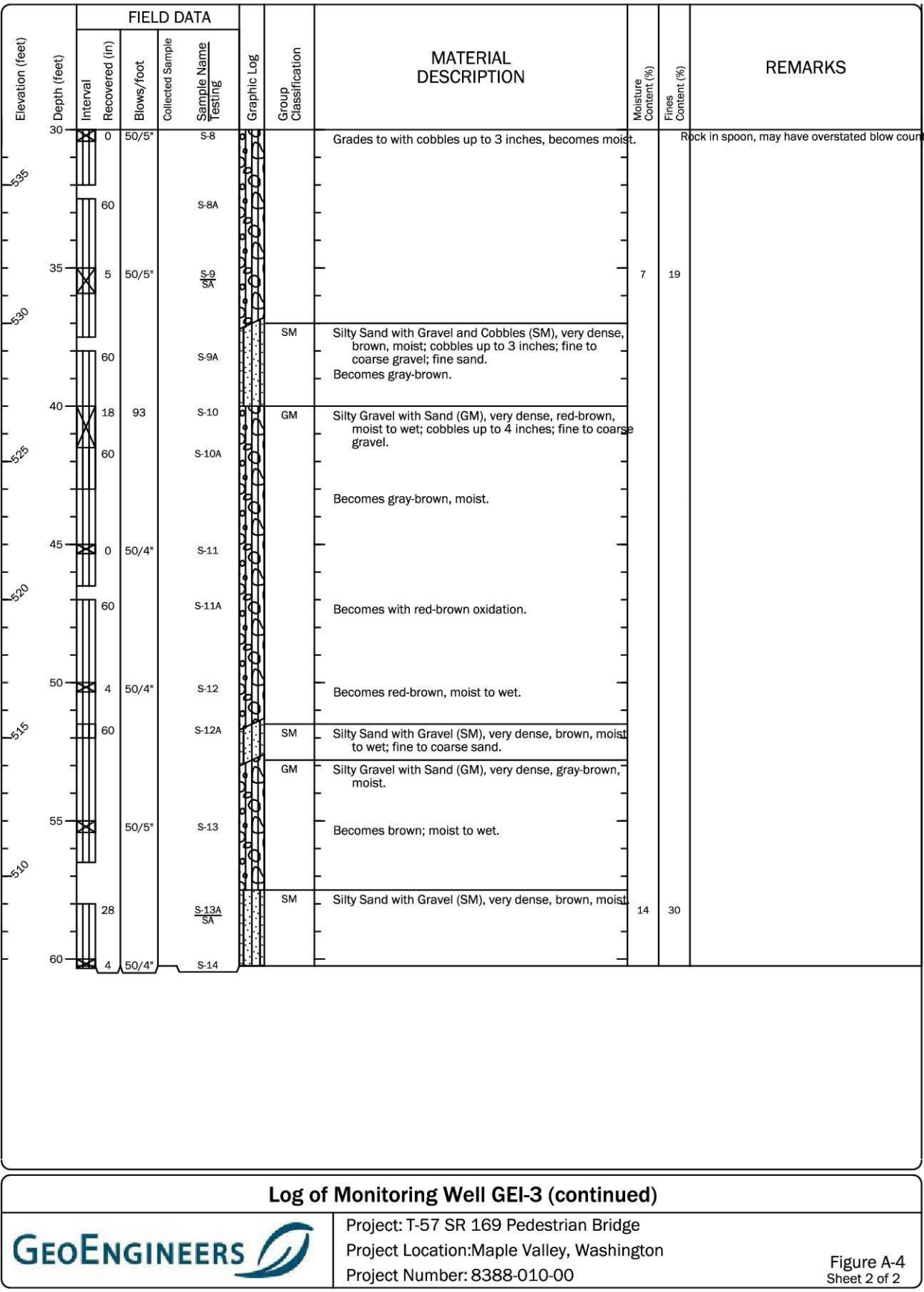
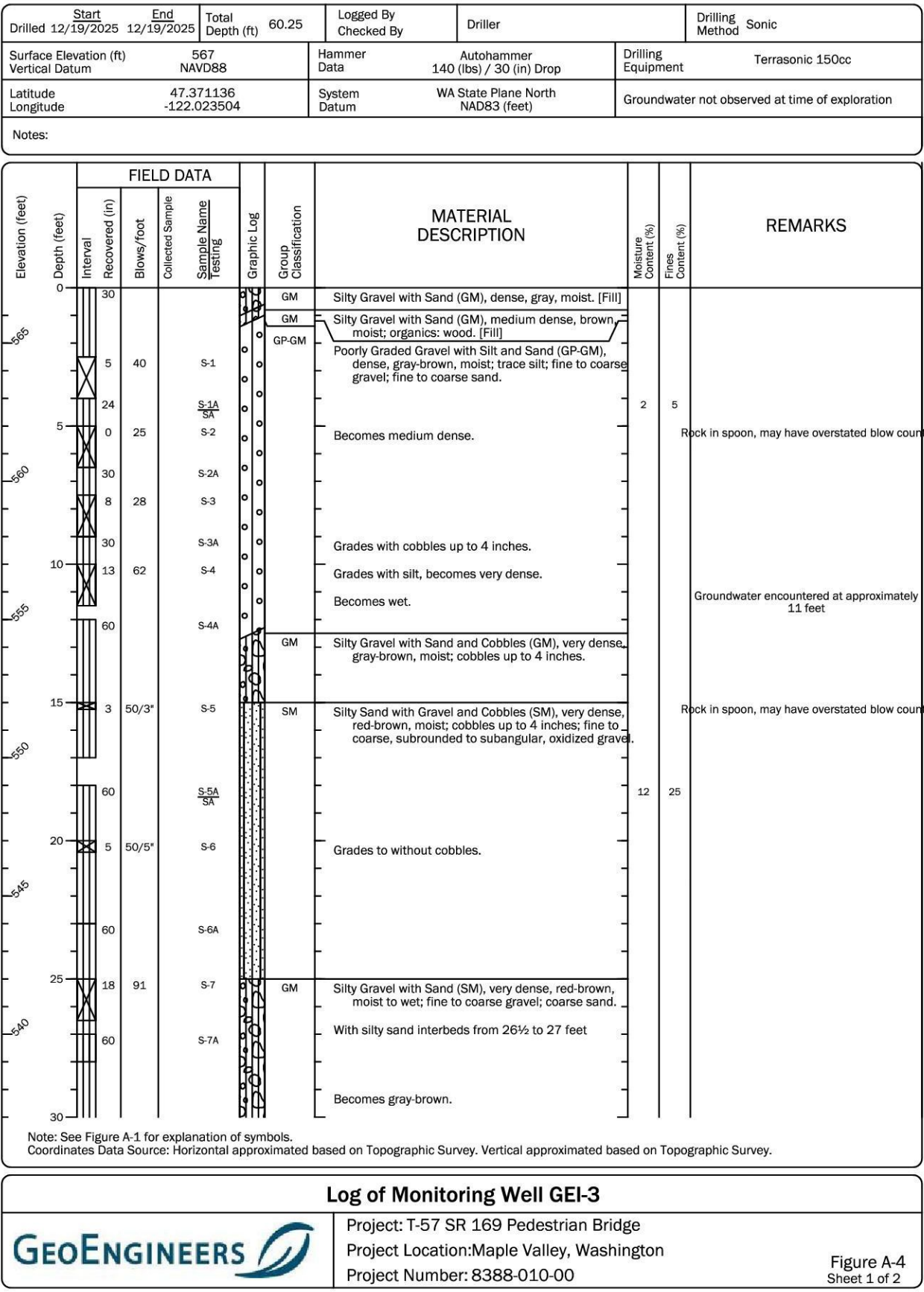


CITY OF MAPLE VALLEY

T-57 SR 169 PEDESTRIAN BRIDGE

SUGGESTED
CONSTRUCTION SEQUENCE

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S69	
PROJECT No: 1262	
SHEET: S-69	REV: 0



NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S-03 & S-04.
2. FOR BOREHOLE LOCATIONS SEE SHEET S-05.

SHEET 71 OF 108

NOT ISSUED FOR
CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	09/14/2026	ISSUED FOR BID	MG

PREPARED UNDER THE DIRECTION OF

MICHAEL GRAY
ENGINEER OF RECORD

09/14/2026
DATE

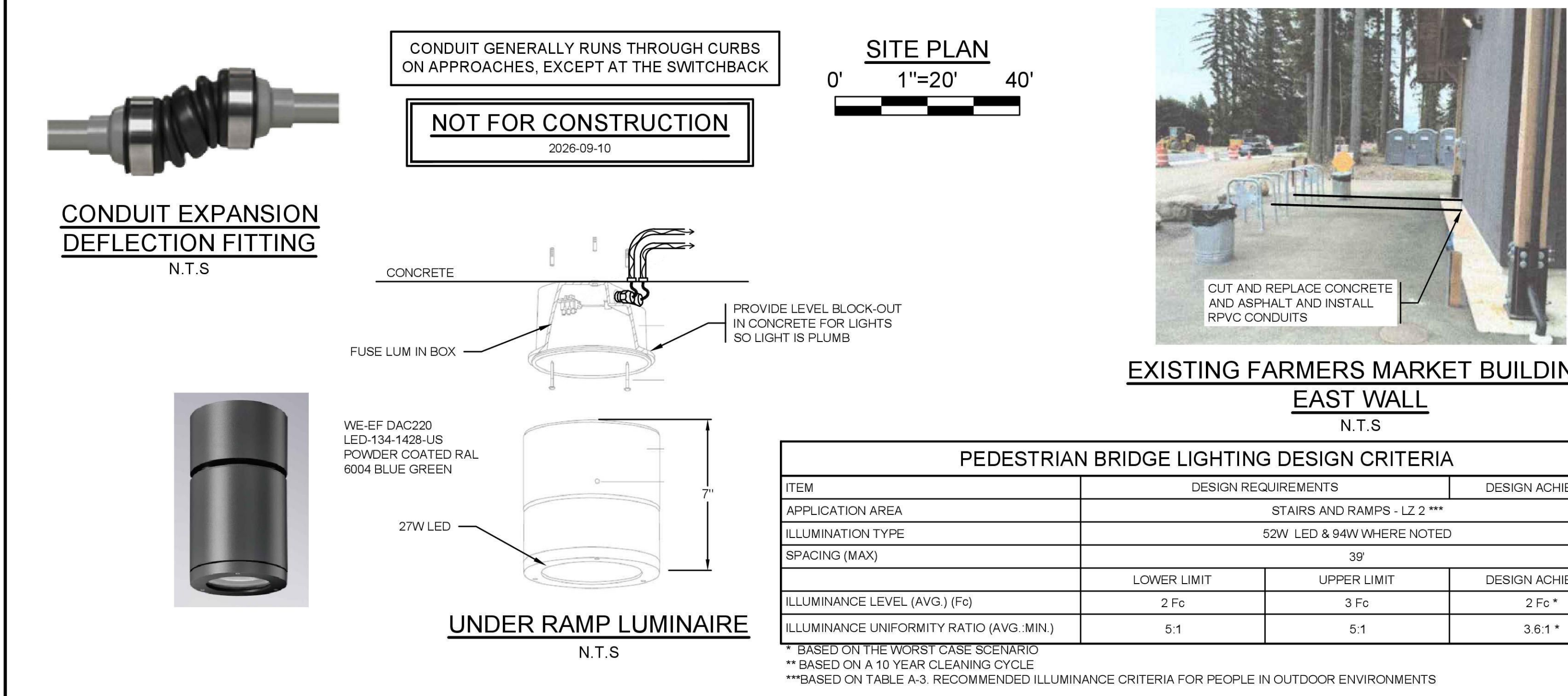
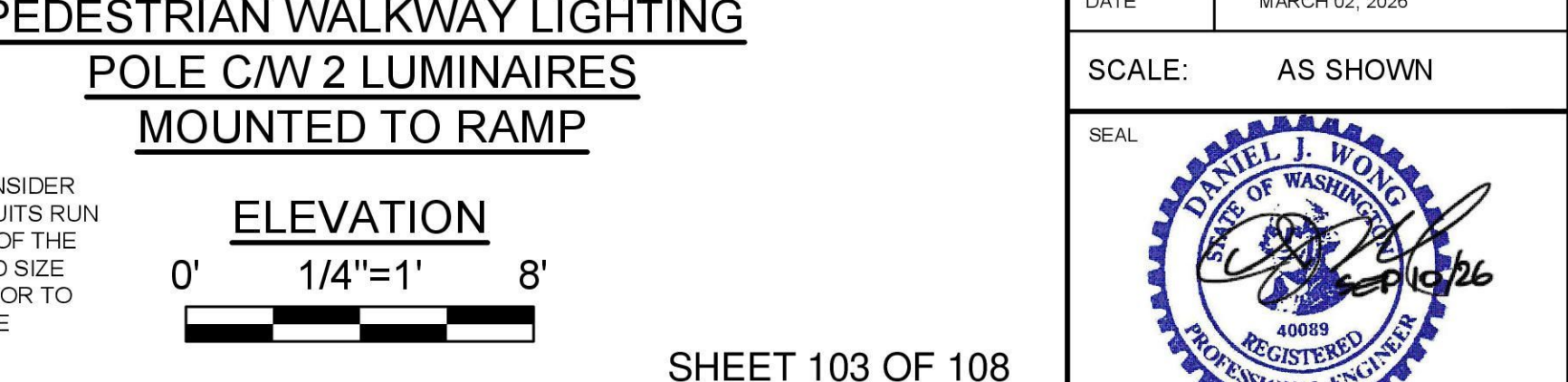
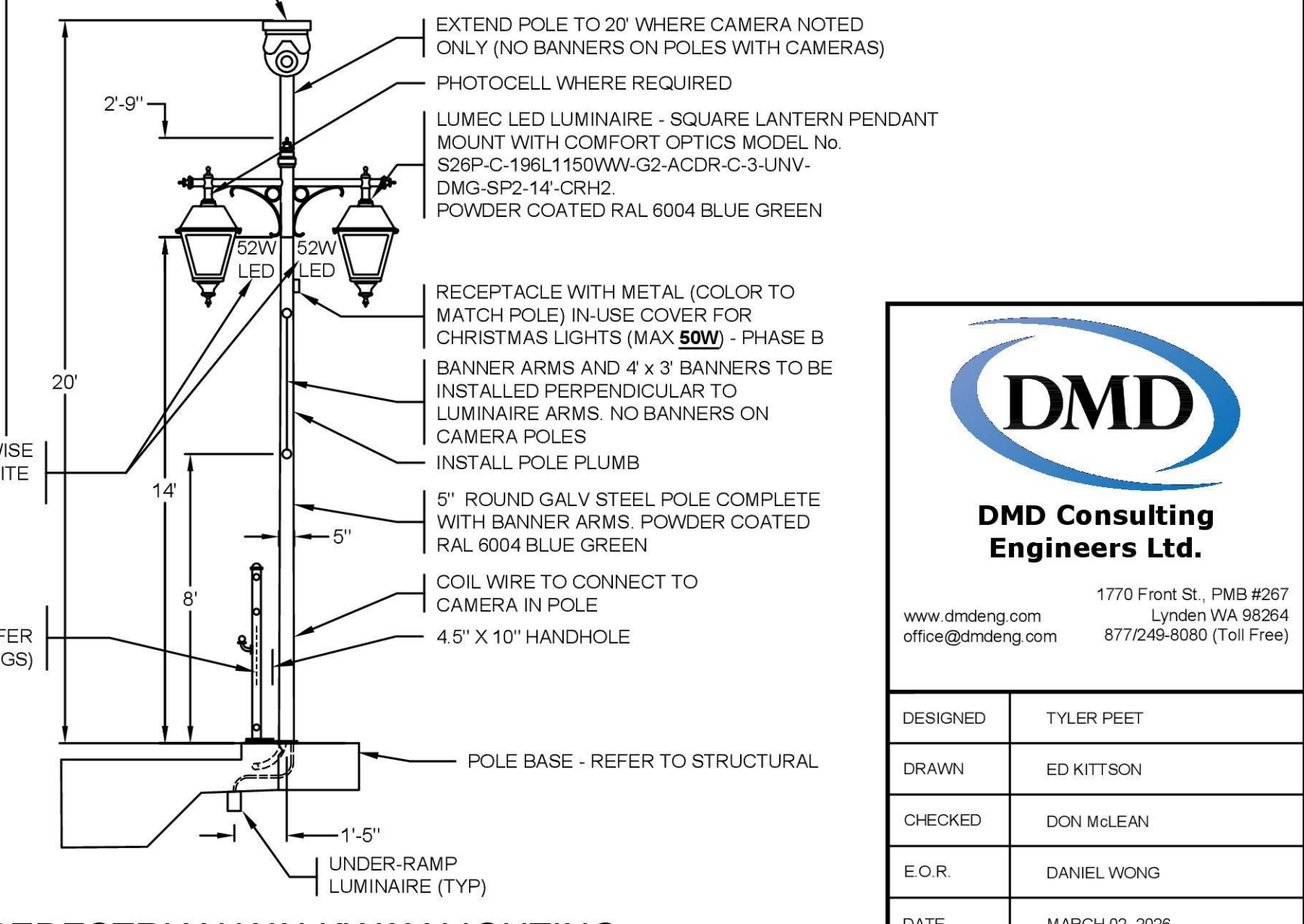
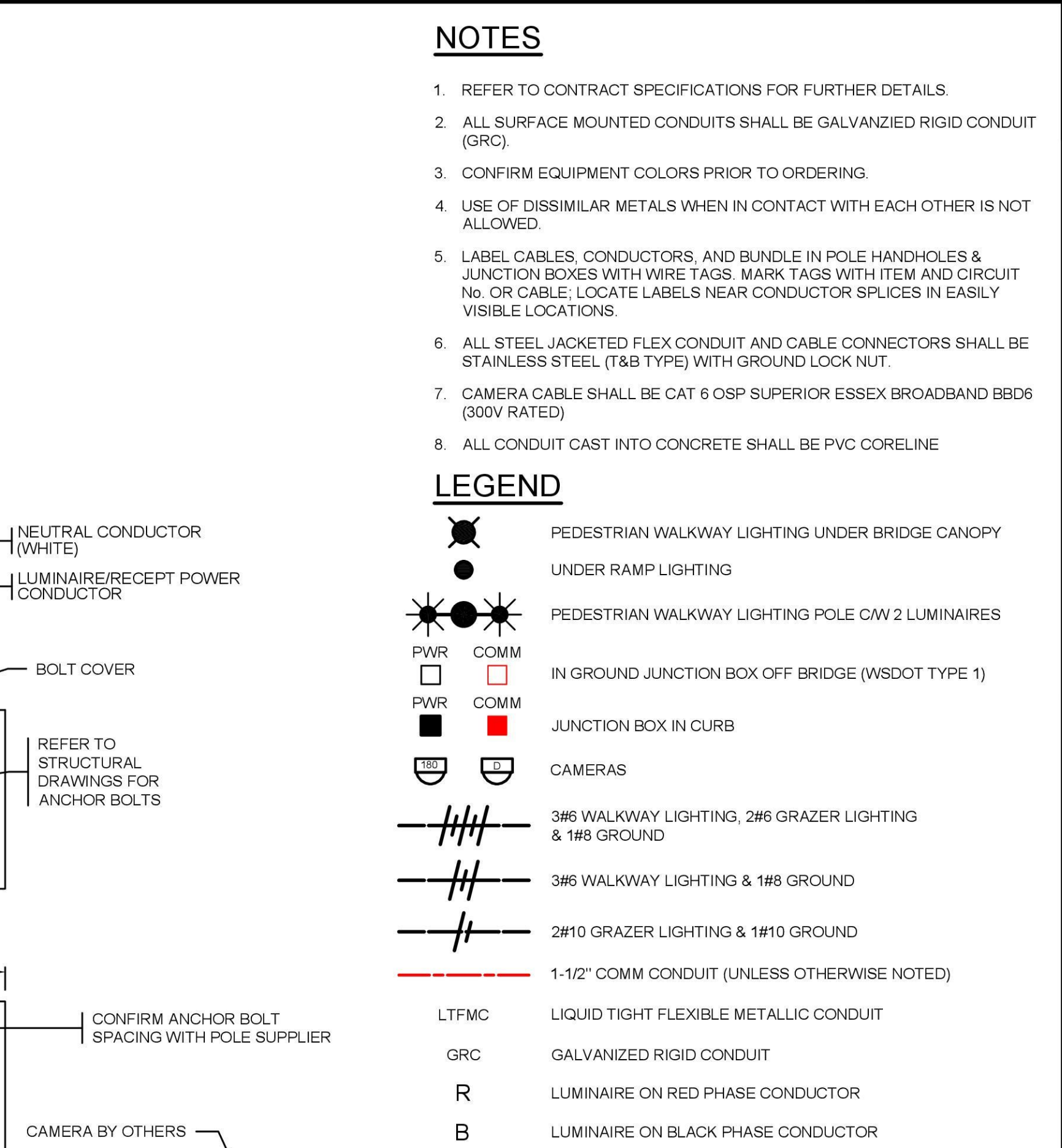
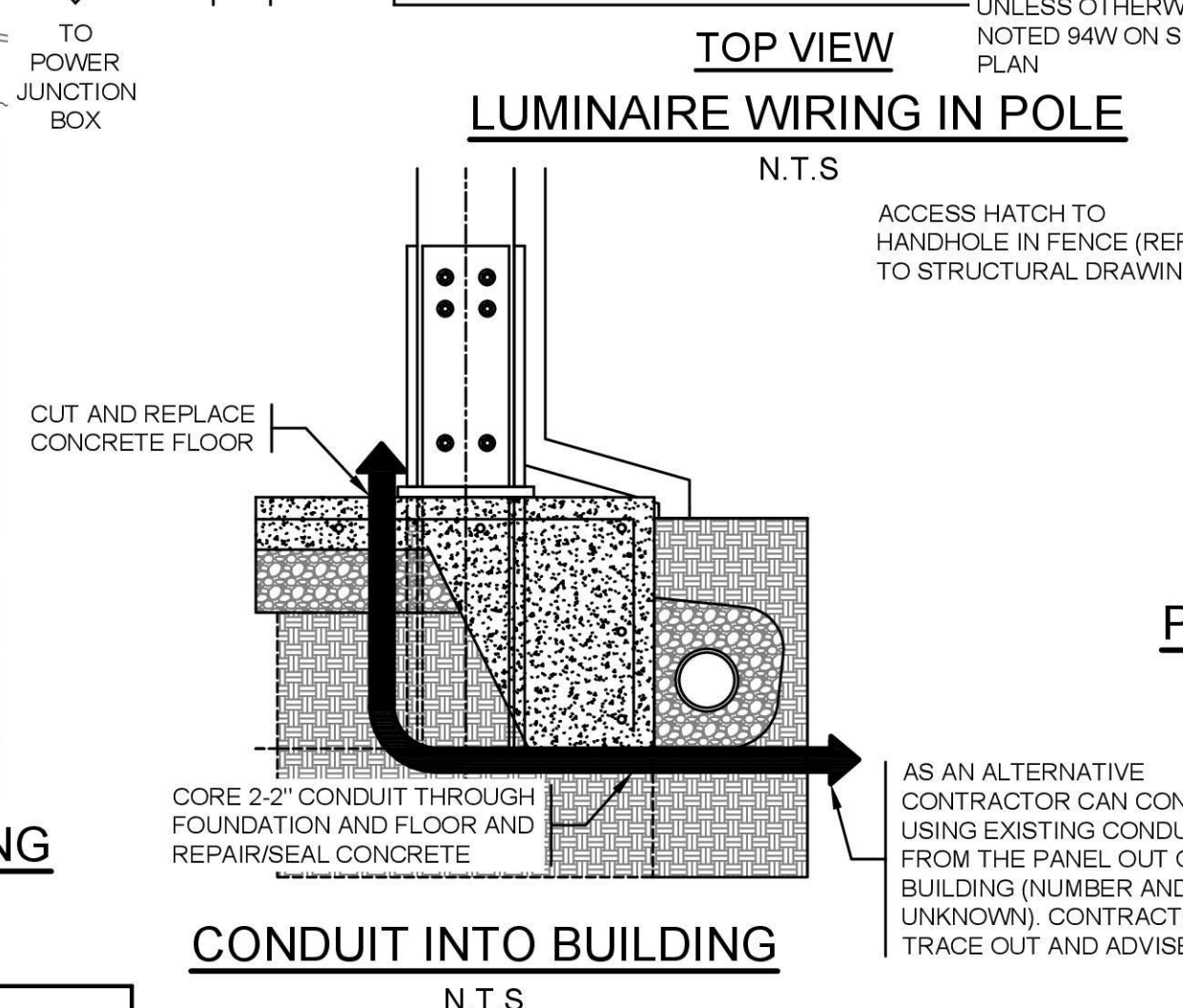
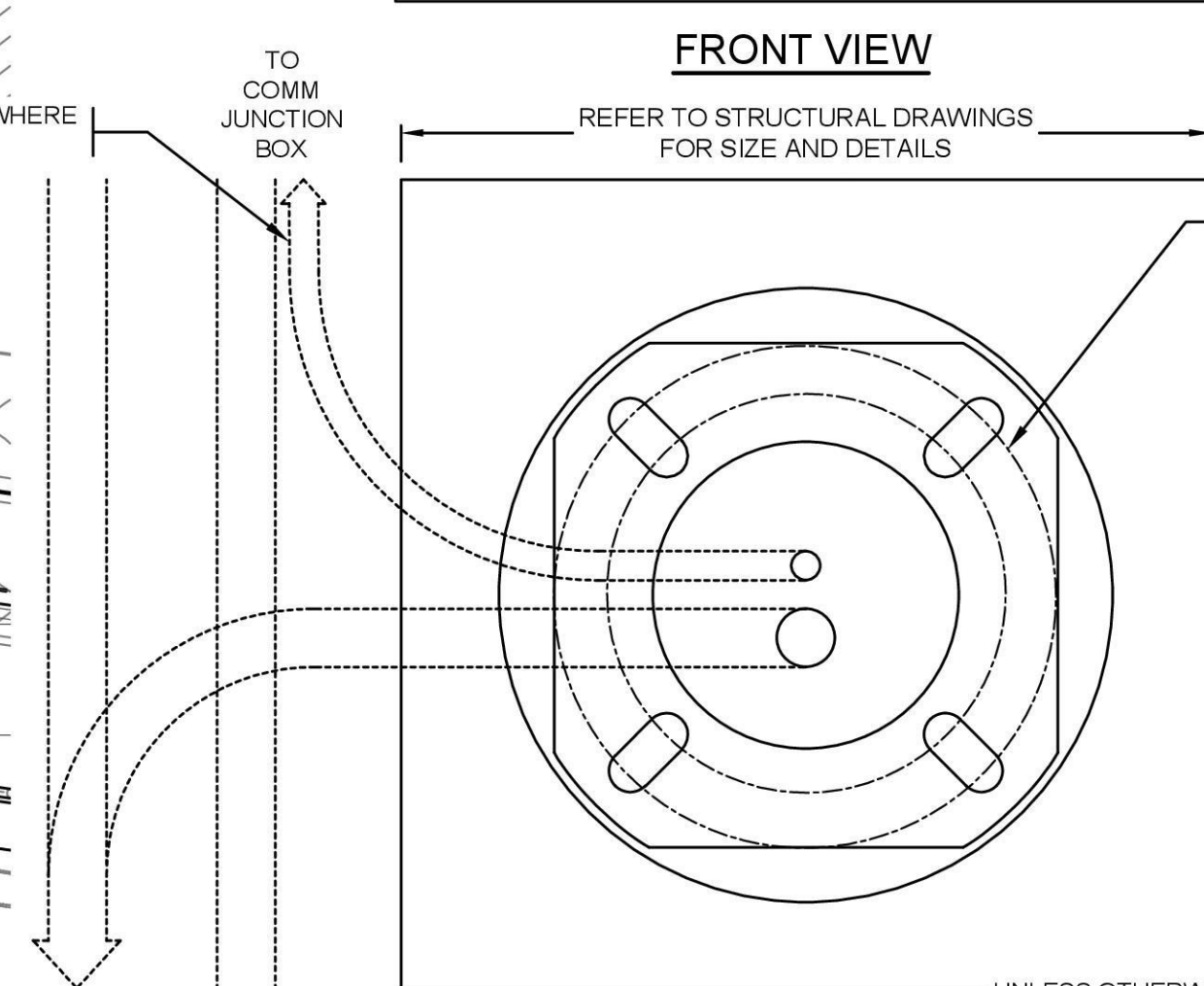
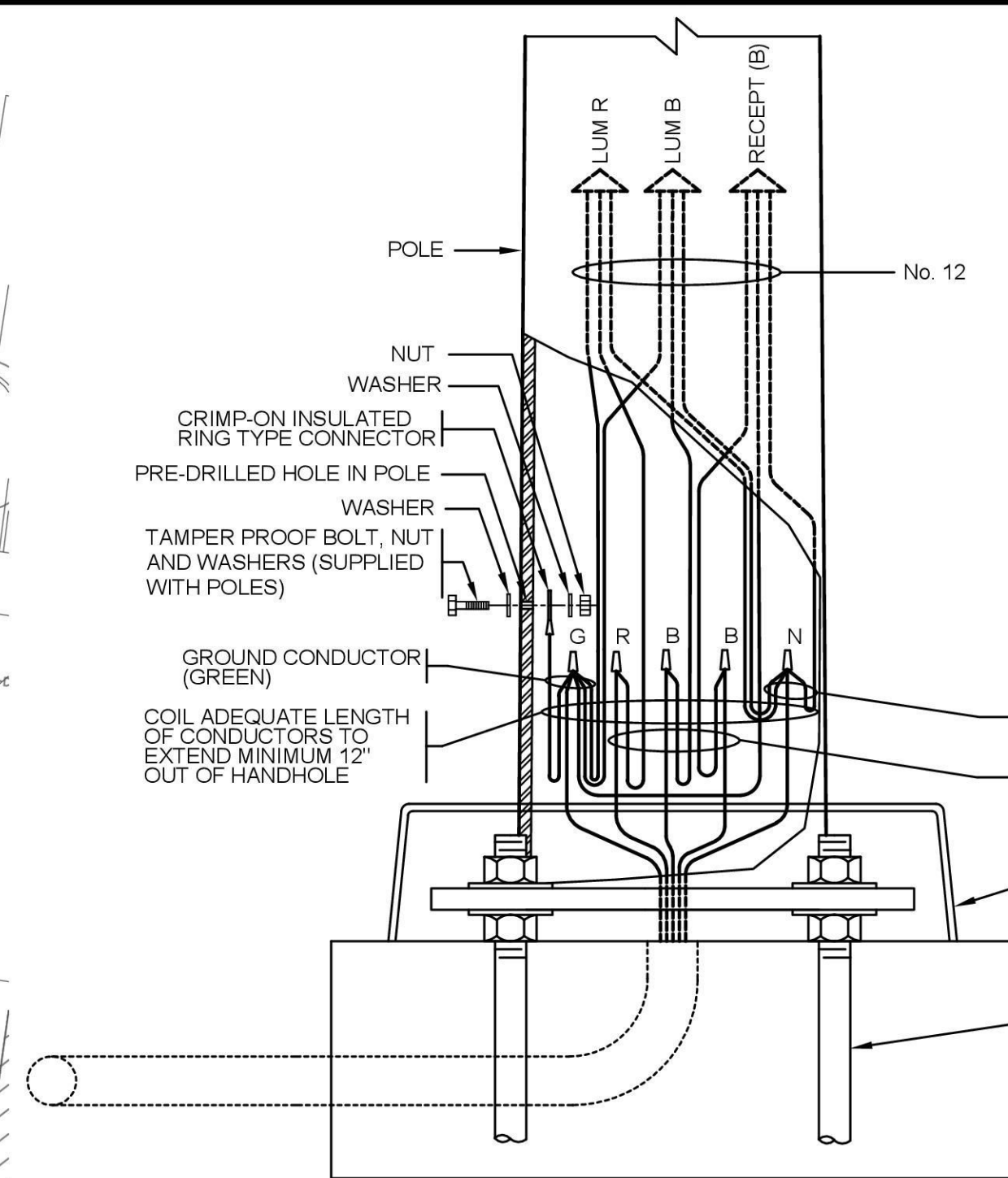
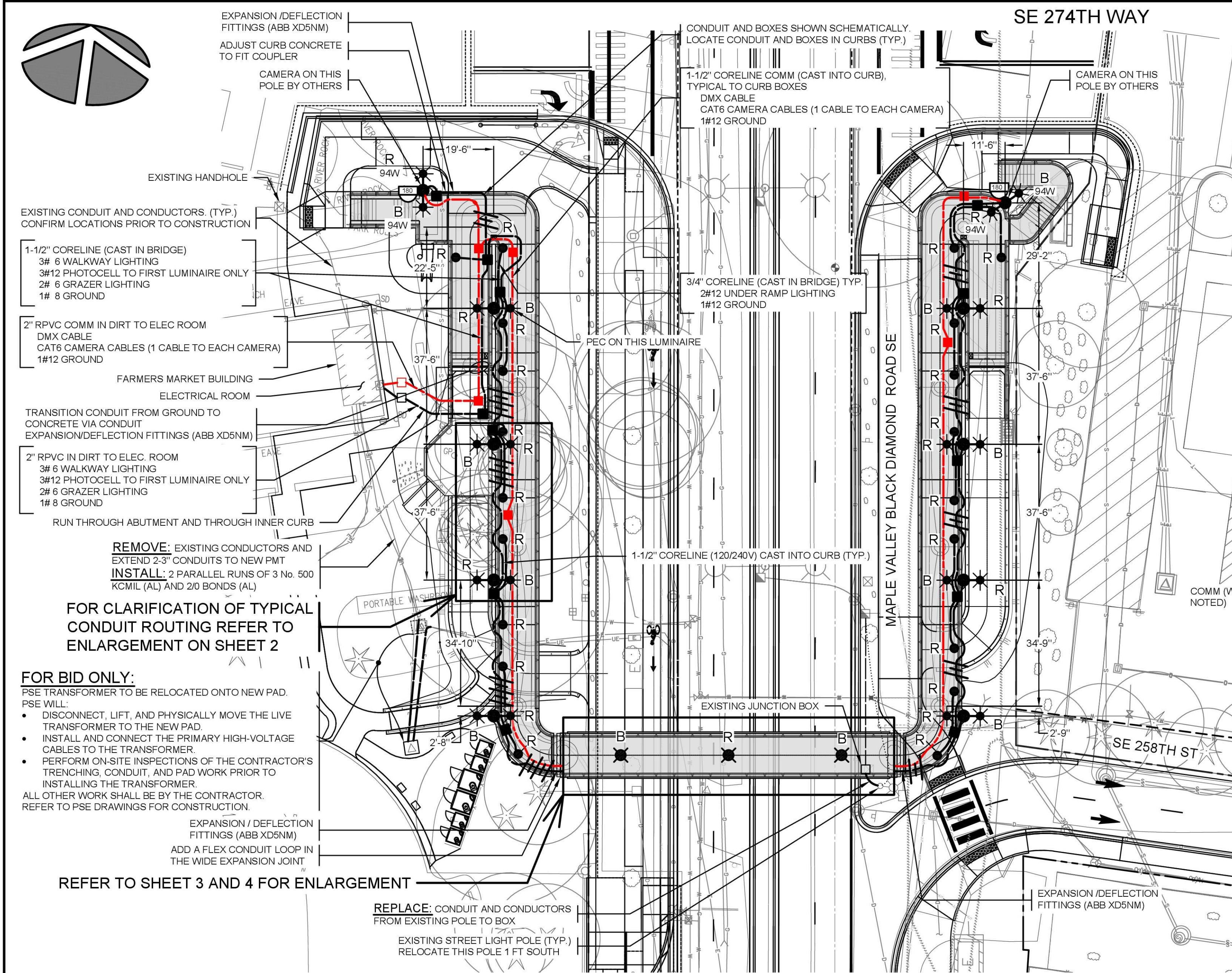


DESIGNED: MICHAEL GRAY		DATE: 09/14/2026	
DRAWN: SCOTT VARNEY		DATE: 09/14/2026	
CHECKED: SCHAUN VALDOVINOS		DATE: 09/14/2026	



CITY OF MAPLE VALLEY
T-57 SR 169 PEDESTRIAN BRIDGE
BOREHOLE LOGS
SHEET 2

SCALE: AS SHOWN	
FILENAME: 1262-DWG-S70_S71	
PROJECT No: 1262	
SHEET: S-71	REV: 0



No.	DATE	BY	CHK'D	REVISION
-	2025-10-27	TP	DSM	PRELIMINARY
B	2026-02-25	RF	DSM	90% SUBMISSION
0	2026-09-10	KH	DSM	ISSUE FOR BID

PROJECT No.	SHEET No.	REVISION
8169-25-01 of 06	1 of 6	0

V&M STRUCTURAL DESIGN

T-57 SR 169 PEDESTRIAN BRIDGE LIGHTING AND ELECTRICAL SITE PLAN & DETAILS

CITY OF MAPLE VALLEY

DMD

DMD Consulting Engineers Ltd.

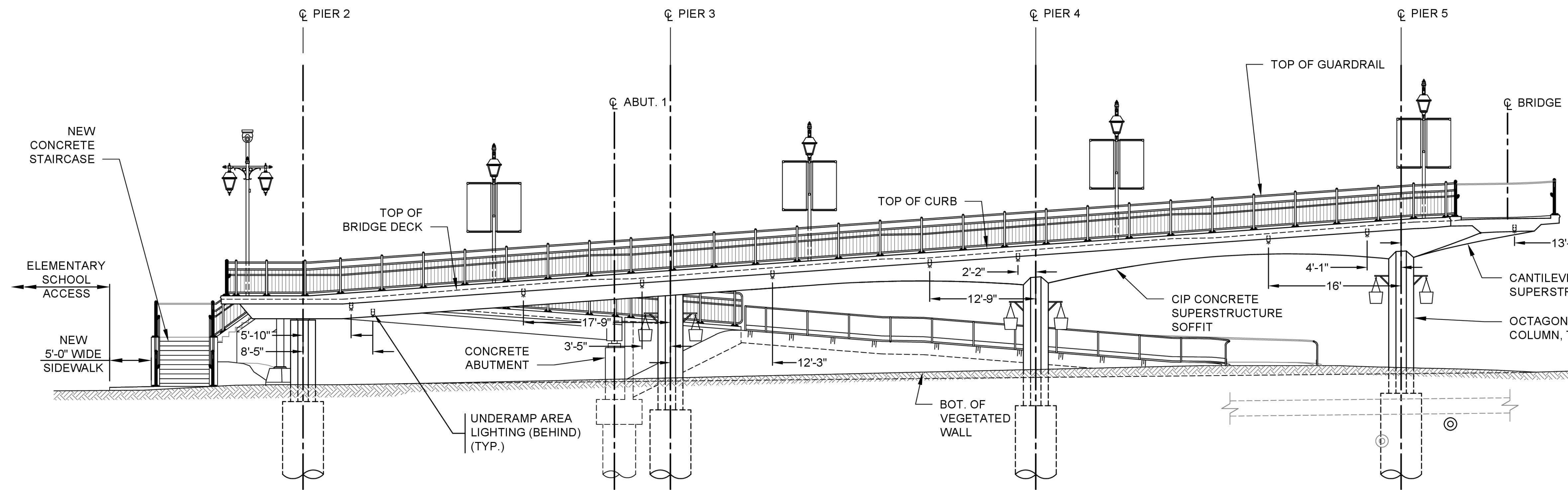
1770 Front St., PMB #267
Lynden WA 98264
www.dmdeng.com
office@dmdeng.com
877(249-8080 (Toll Free)

DESIGNED	TYLER FEET
DRAWN	ED KITTSOON
CHECKED	DON McLEAN
E.O.R.	DANIEL WONG
DATE	MARCH 02, 2026

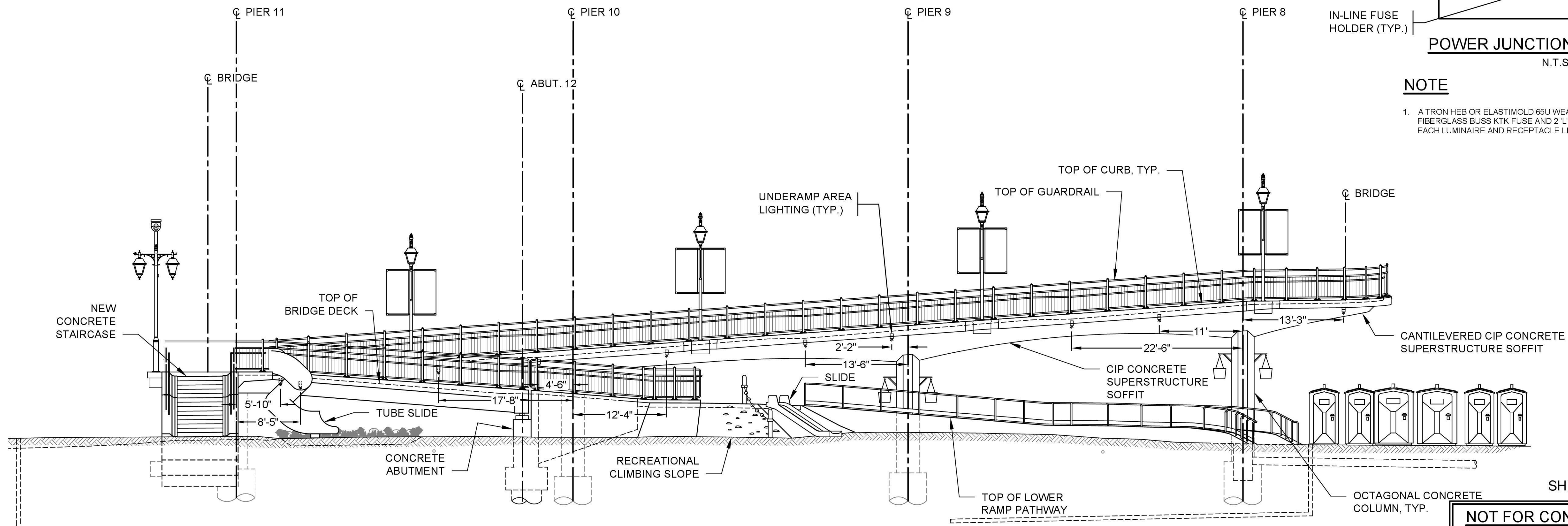
SCALE: AS SHOWN

SEAL

DANIEL J. WONG
STATE OF WASHINGTON
10089
REGISTERED PROFESSIONAL ENGINEER



EAST RAMP ELEVATION (LOOKING EAST)
SCALE: 1/8" = 1'-0"



WEST RAMP ELEVATION (LOOKING EAST)
SCALE: 1/8" = 1'-0"

1-1/2" CORELINE COMM (CAST INTO CURB),
TYPICAL TO CURB BOXES
DMX CABLE
CAT6 CAMERA CABLES (1 CABLE TO EACH CAMERA)
1#12 GROUND

3/4" CORELINE (CAST IN BRIDGE) TYP.
2#12 UNDER RAMP LIGHTING
1#12 GROUND

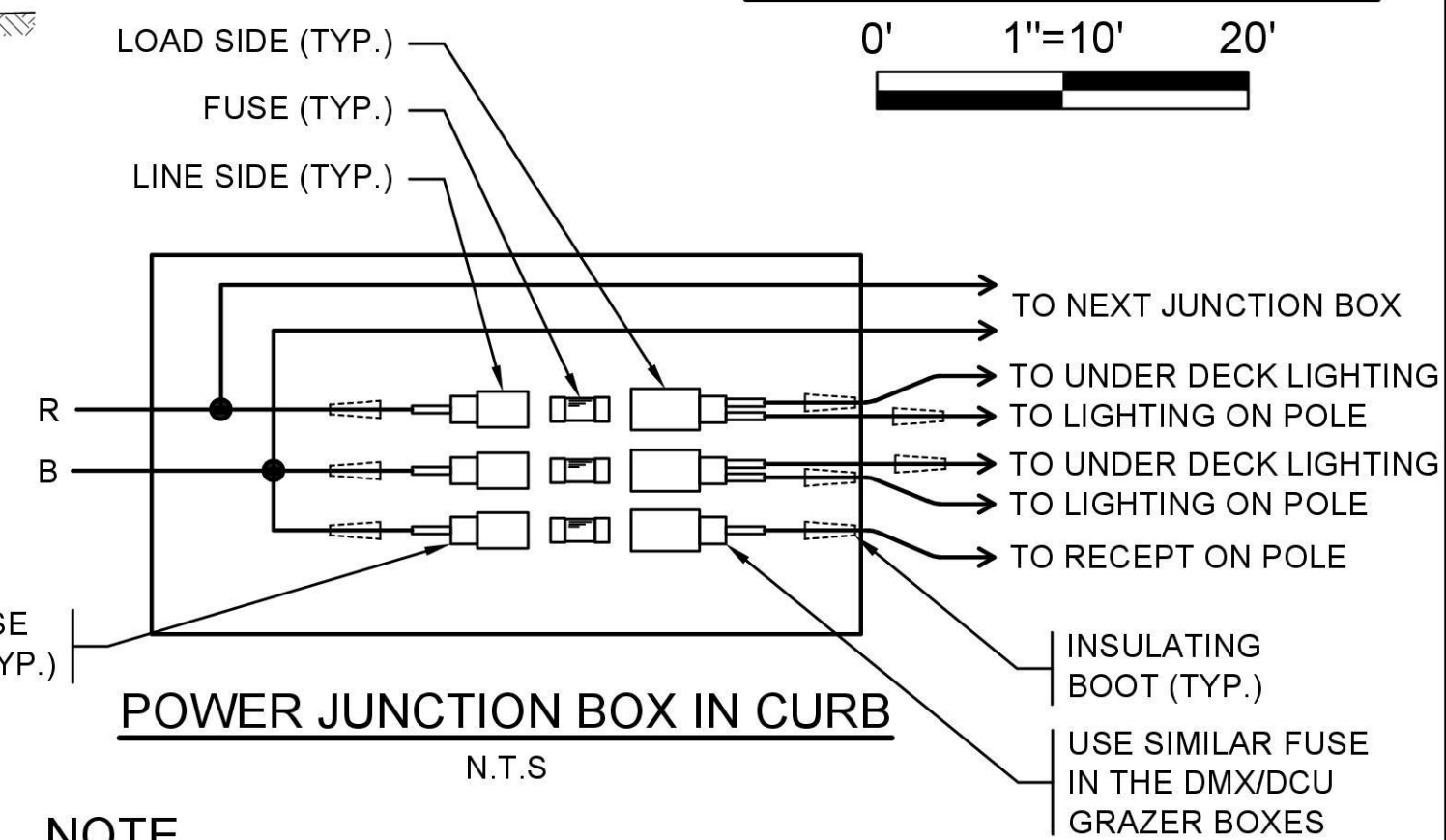
1-1/2" CORELINE (120/240V) CAST INTO CURB (TYP.)

CAST INTO CURB

CONDUIT GENERALLY RUNS THROUGH CURBS ON APPROACHES, EXCEPT AT THE SWITCHBACK

**RAMP LIGHTING -
SITE PLAN ENLARGEMENT**

0' 1"=10' 20'



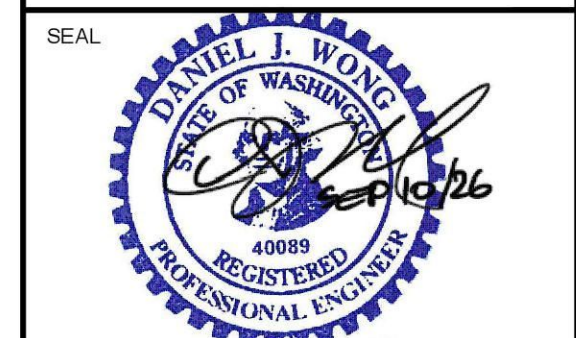
NOTE

1. A TRON HEB OR ELASTIMOLD 65U WEATHER RESISTANT FUSE HOLDER, C/W A 5A FIBERGLASS BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS SHALL BE INSTALLED IN EACH LUMINAIRE AND RECEPTACLE LIVE CONDUCTOR IN THE JUNCTION BOX



DESIGNED	TYLER PEET
DRAWN	ED KITTSOON
CHECKED	DON McLEAN
E.O.R.	DANIEL WONG
DATE	MARCH 02, 2026

SCALE: AS SHOWN



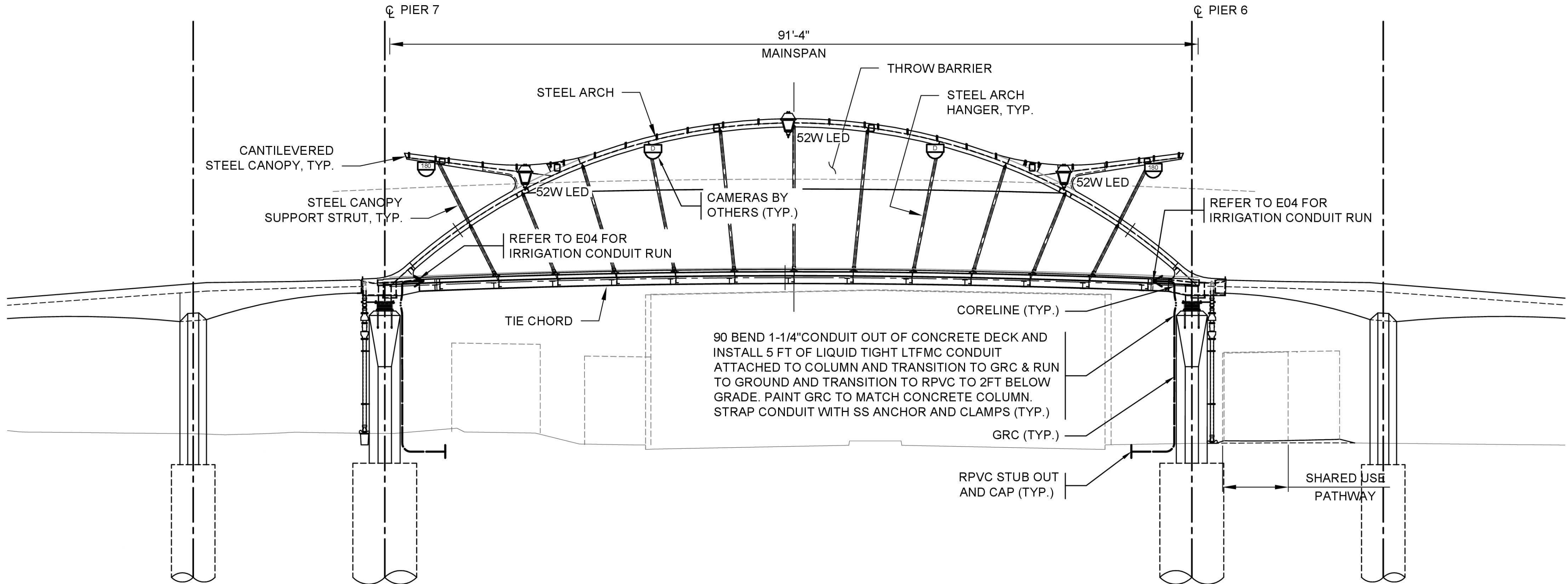
SHEET 104 OF 108

NOT FOR CONSTRUCTION
2026-09-10

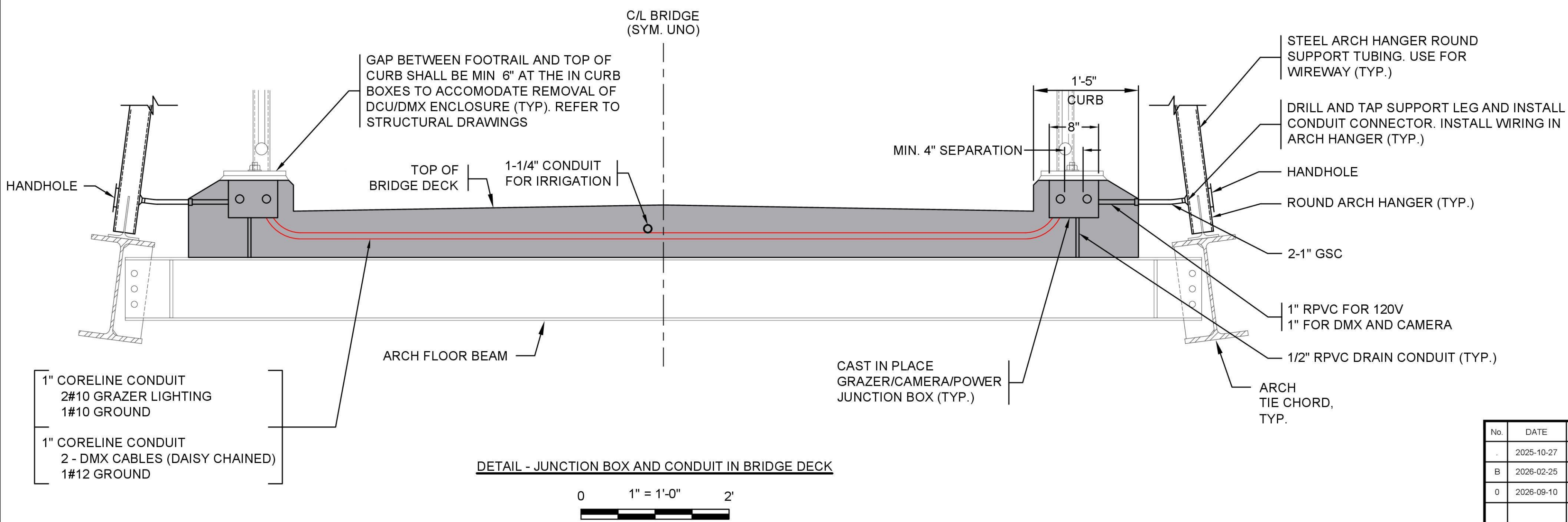
No.	DATE	BY	CHK'D	REVISION	V&M STRUCTURAL DESIGN		
-	2025-10-27	TP	DSM	PRELIMINARY	T-57 SR 169 PEDESTRIAN BRIDGE LIGHTING AND ELECTRICAL RAMP ELEVATIONS CITY OF MAPLE VALLEY		
B	2026-02-25	RF	DSM	90% SUBMISSION			
O	2026-09-10	KH	DSM	ISSUE FOR BID			
					PROJECT No.	SHEET No.	REVISION
					8169-25-02 of 06	2 of 6	0



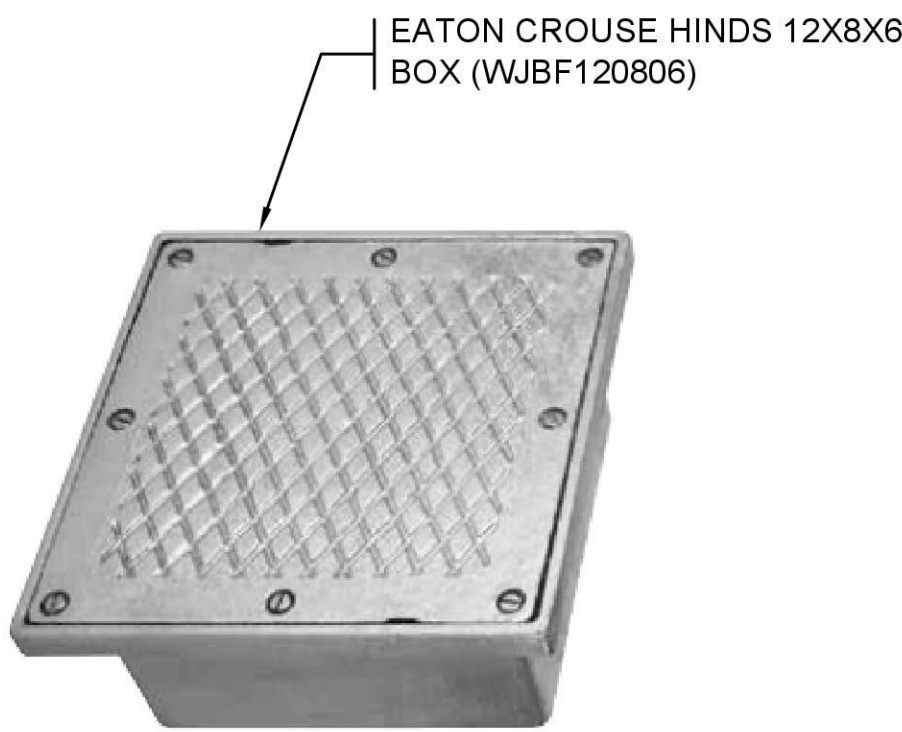
BRIDGE RENDERING
N.T.S



MAINSPAN ELEVATION (LOOKING NORTH)
SCALE: 1/8" = 1'-0"



DETAIL - JUNCTION BOX AND CONDUIT IN BRIDGE DECK
0 1" = 1'-0" 2'



CAST IN CURB JUNCTION BOX
N.T.S

SHEET 105 OF 108

NOT FOR CONSTRUCTION
2026-09-10

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1770 Front St., PMB #267
Lynden WA 98264
www.dmdeng.com
office@dmdeng.com
877/249-8080 (Toll Free)

DESIGNED	TYLER PEET
DRAWN	ED KITTSOON
CHECKED	DON McLEAN
E.O.R.	DANIEL WONG
DATE	MARCH 02, 2026

SCALE: AS SHOWN

SEAL

DANIEL J. WONG

STATE OF WASHINGTON

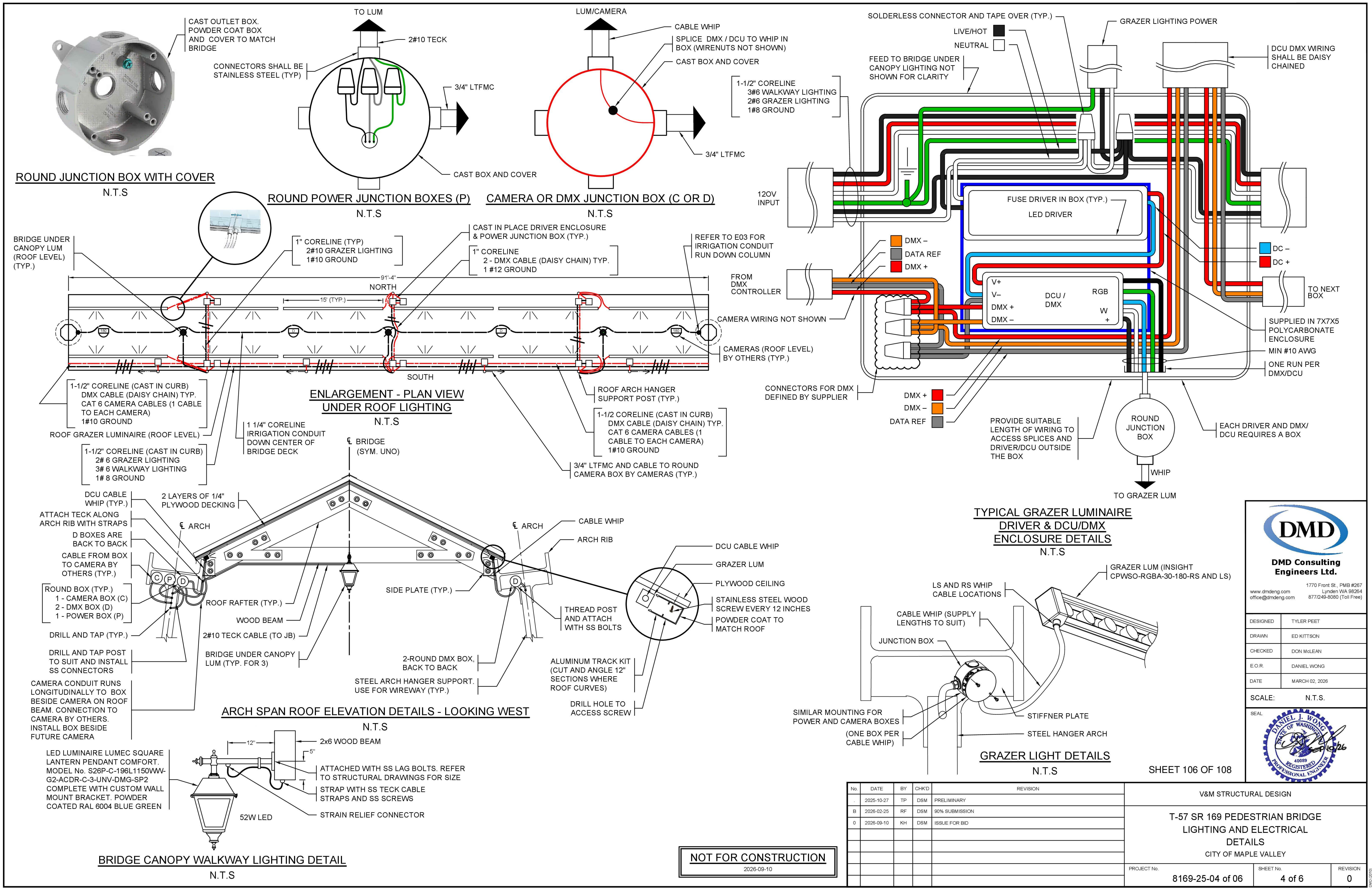
40889

REGISTERED PROFESSIONAL ENGINEER

2026-09-10

No.	DATE	BY	CHK'D	REVISION
-	2025-10-27	TP	DSM	PRELIMINARY
B	2026-02-25	RF	DSM	90% SUBMISSION
O	2026-09-10	KH	DSM	ISSUE FOR BID

V&M STRUCTURAL DESIGN	
T-57 SR 169 PEDESTRIAN BRIDGE LIGHTING AND ELECTRICAL MAINSPAN ELEVATION CITY OF MAPLE VALLEY	
PROJECT No. 8169-25-03 of 06	SHEET No. 3 of 6
REVISION 0	



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DMD Consulting Engineers Ltd.

1770 Front St., PMB #267
Lynden WA 98264
office@dmdeng.com 877/249-8080 (Toll Free)

DESIGNED TYLER PEET
DRAWN ED KITTSON
CHECKED DON McLEAN
E.O.R. DANIEL WONG
DATE MARCH 02, 2026
SCALE: N.T.S.
SEAL

DANIEL J. WONG

40089

REGISTERED PROFESSIONAL ENGINEER

NO. DATE BY CHK'D REVISION

- 2025-10-27 TP DSM PRELIMINARY

B 2026-02-25 RF DSM 90% SUBMISSION

O 2026-09-10 KH DSM ISSUE FOR BID

V&M STRUCTURAL DESIGN

T-57 SR 169 PEDESTRIAN BRIDGE
LIGHTING AND ELECTRICAL
DETAILS
CITY OF MAPLE VALLEY

PROJECT No. 8169-25-04 of 06

SHEET No. 4 of 6

REVISION 0

NOT FOR CONSTRUCTION
2026-09-10

SHEET 106 OF 108

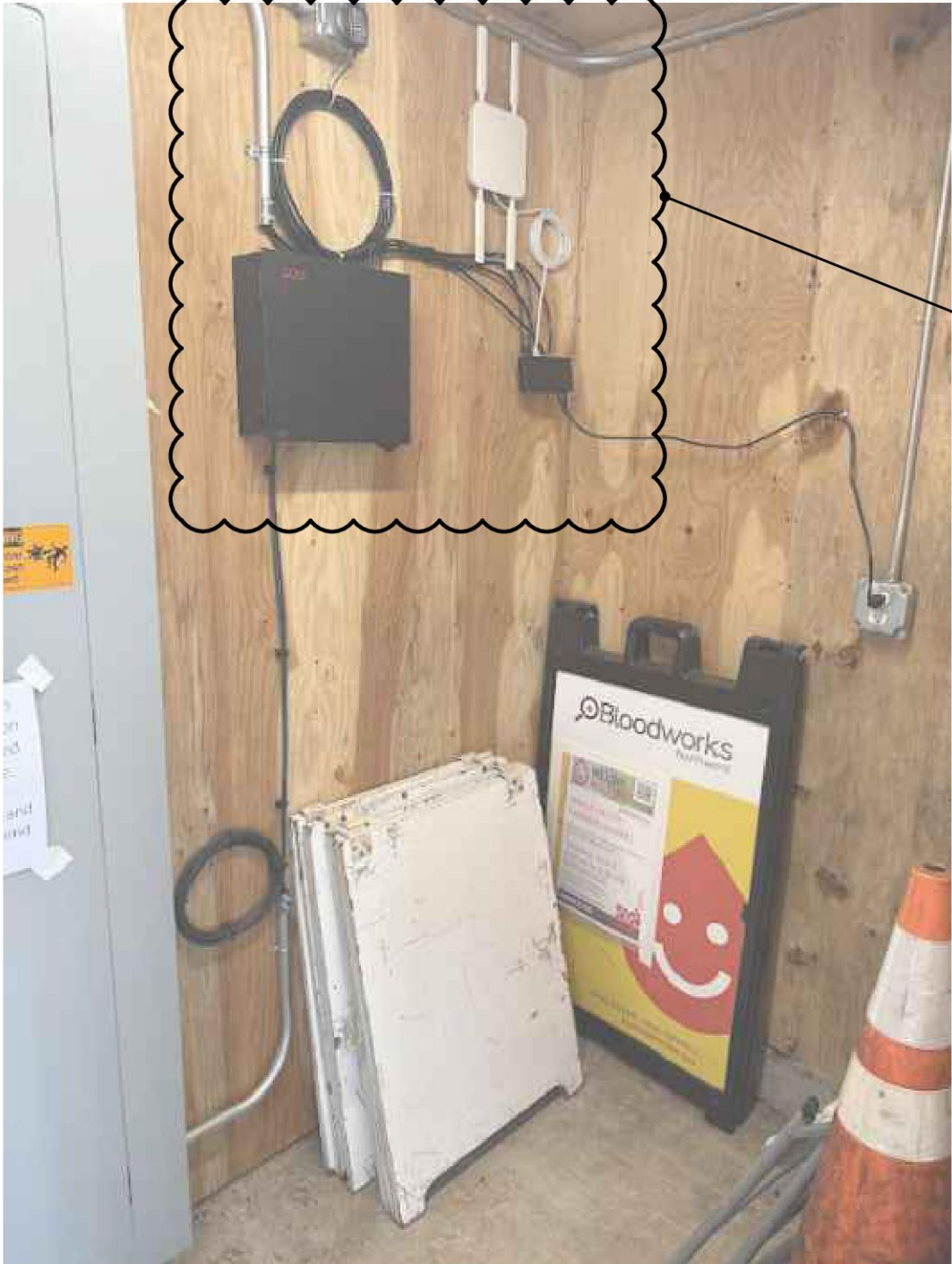
CANCEL PRINTS BEARING PREVIOUS LETTER



EXISTING PANEL AND METERING
N.T.S



EAST WALL IN BUILDING
N.T.S

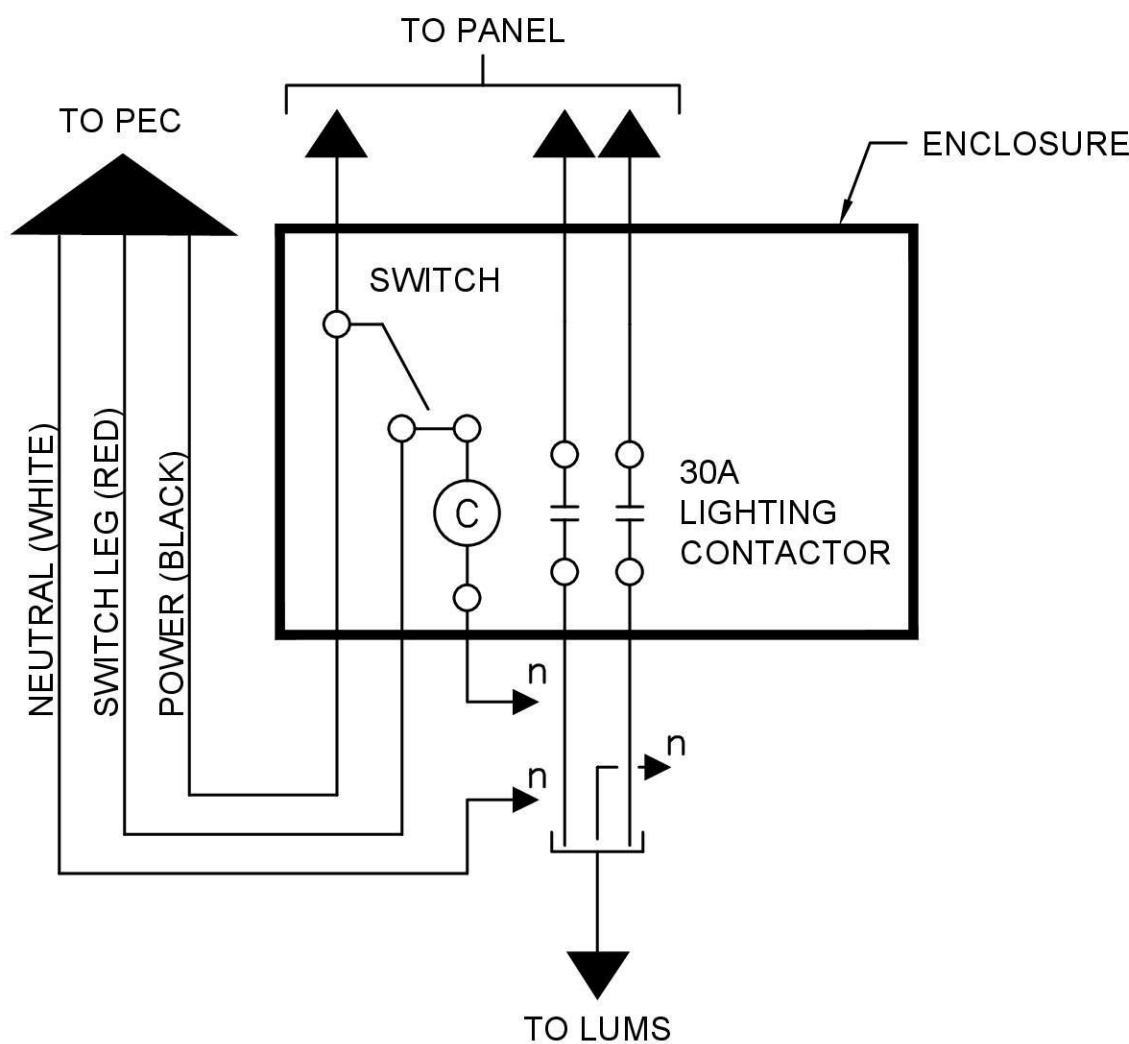


EXISTING COMM
N.T.S

FIBRE AND WI-FI. CITY TO
UPGRADE AS REQUIRED

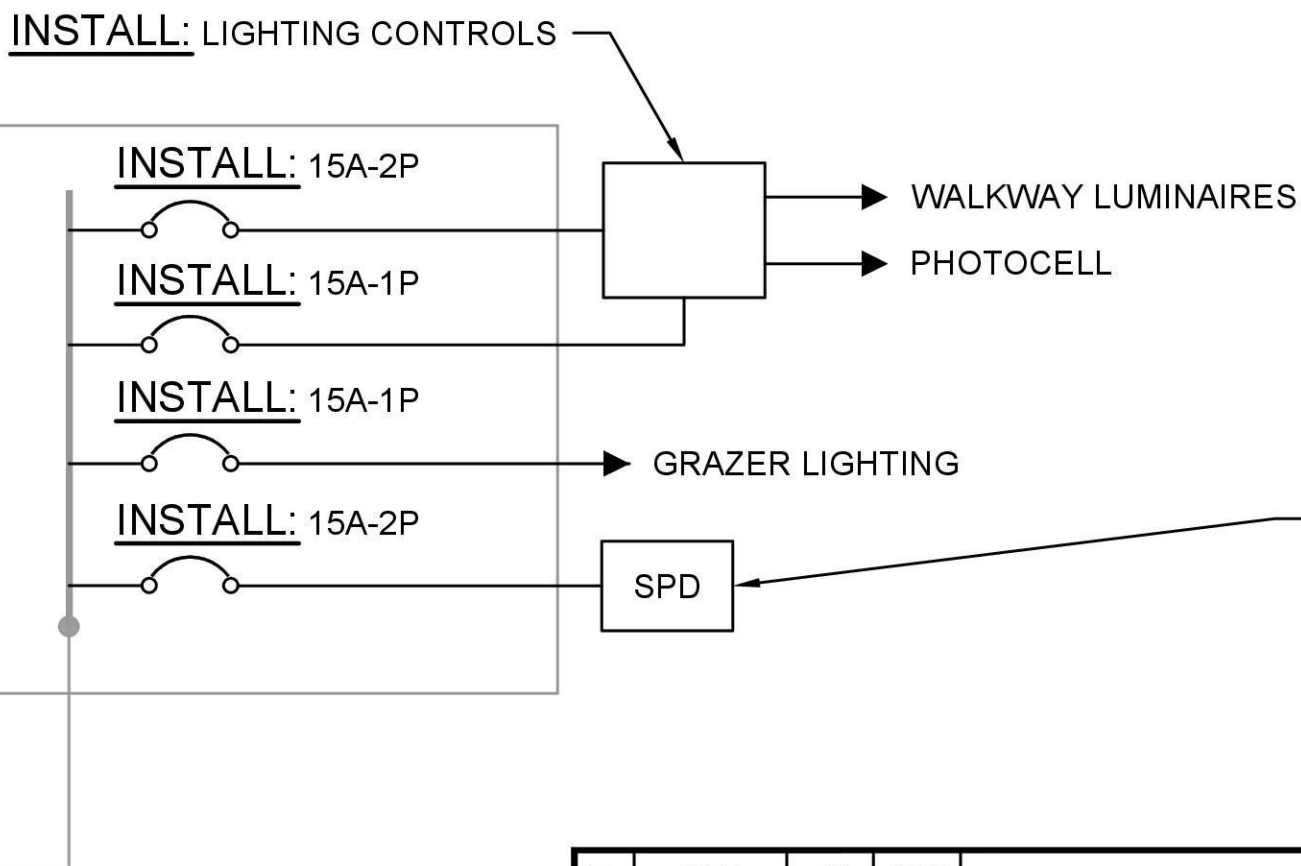
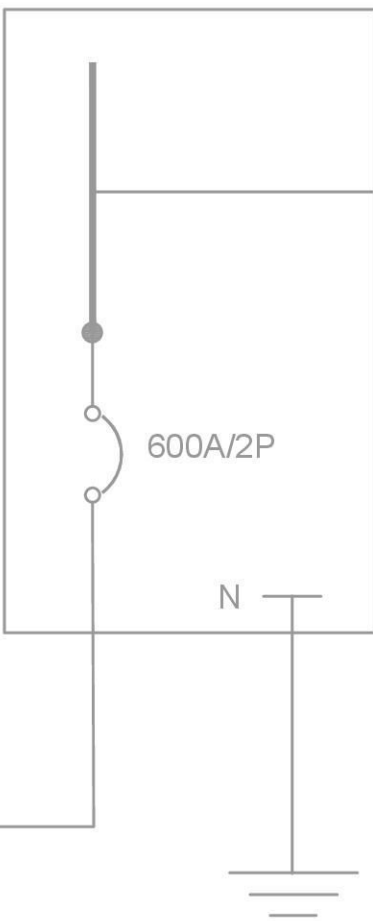
NOTES

- CONDUCTORS SHALL BE STRANDED COPPER, TYPE THWN-2 INSULATED 600V UNDERGROUND.
- CONTRACTOR TO ENSURE LOADS ARE BALANCED.
- UPSIZE BONDING CONDUCTORS TO SUIT THE LARGEST CONDUCTOR IN THE CONDUIT AS PER NEC.



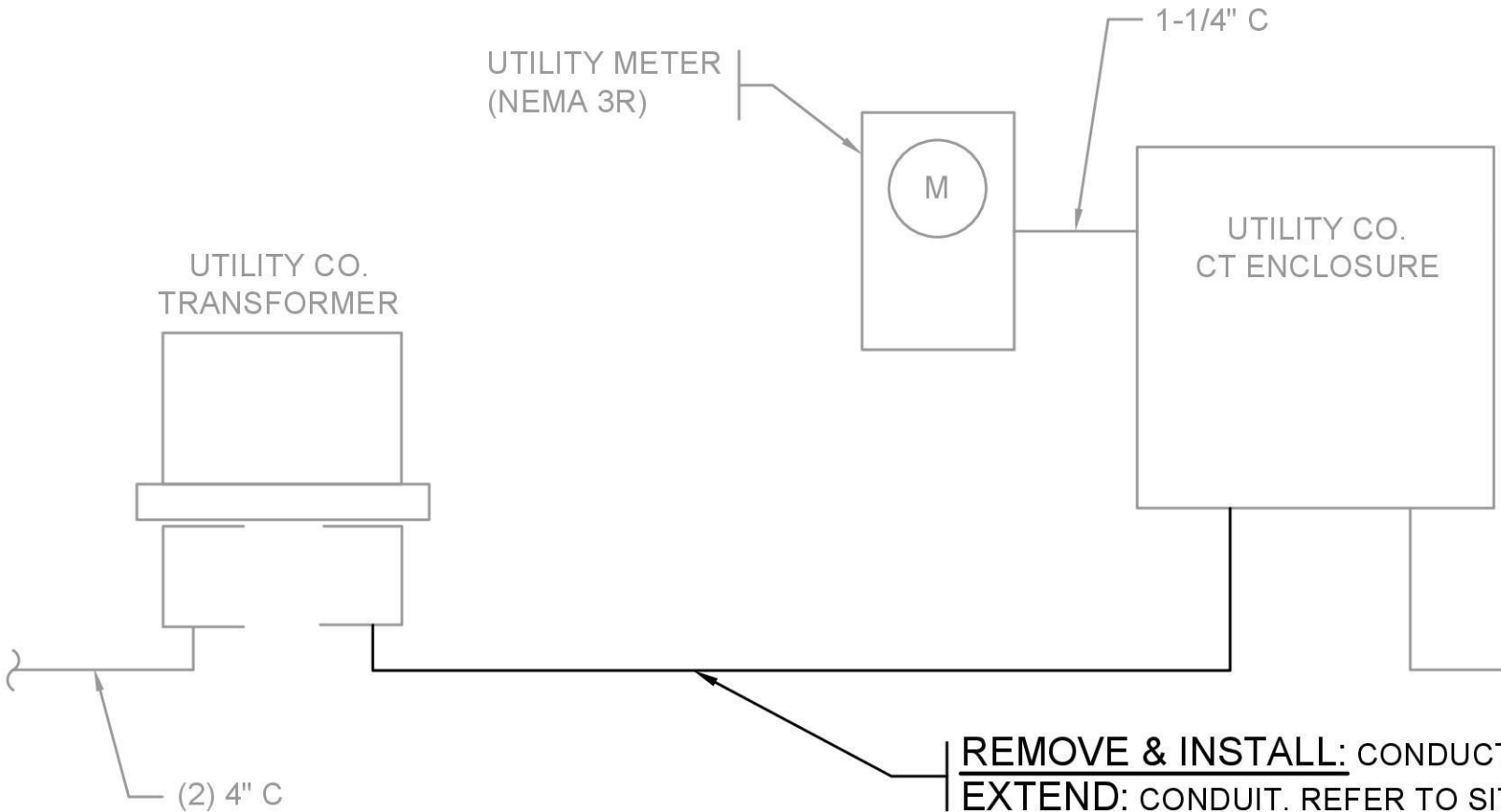
INSTALL: WALKWAY LIGHTING CONTROLS
N.T.S

MDP
600 AMP
240/120V, 1PH, 3W
65K AIC
(SIEMENS P3
PANELBOARD WITH
TYPE BLH BRANCH
CIRCUIT BREAKERS)



INSTALL: SURGE SUPPRESSION DEVICE SEPARATE FROM PANEL BOARD. TYPE 2, 20kA L-N FOR USE IN TYPE 2 LOCATIONS. SURGE CAPACITY (PER PHASE AND PER MODE): 50kA WITH A SHORT-CIRCUIT CURRENT RATING OF 200kA, SHALL BE APPROVED TO: ANSI/UL 1449 4TH EDITION, TYPE 2 SPD ANSI/IEEE C62.41.1, 62.41.2 AND 62.45 AND UL96A LIGHTNING PROTECTION. THE SURGE PROTECTION SHALL BE INSTALLED WITHIN 150MM OF THE BREAKERS WHICH IN THE PANEL AND WIRING SHALL RUN IN STRAIGHT PATH WITH MINIMAL BENDS.

ALL EQUIPMENT IS EXISTING
EXCEPT WHERE NOTED



EXISTING ELECTRICAL RISER DIAGRAM
N.T.S

NOT FOR CONSTRUCTION
2026-09-10

No.	DATE	BY	CHK'D	REVISION
-	2025-10-27	TP	DSM	PRELIMINARY
B	2026-02-25	RF	DSM	90% SUBMISSION
O	2026-09-10	KH	DSM	ISSUE FOR BID

SHEET 107 OF 108		
V&M STRUCTURAL DESIGN		
T-57 SR 169 PEDESTRIAN BRIDGE LIGHTING AND ELECTRICAL SINGLE LINE DIAGRAM CITY OF MAPLE VALLEY		
PROJECT No.	SHEET No.	REVISION
8169-25-05 of 06	5 of 6	0

DMD Consulting Engineers Ltd.

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DESIGNED	TYLER FEET
DRAWN	ED KITTSOON
CHECKED	DON McLEAN
E.O.R.	DANIEL WONG
DATE	MARCH 02, 2026
SCALE:	N.T.S.
SEAL	

