

# TOWN OF WINTHROP SR 20 CHEWUCH BRIDGE PEDESTRIAN UNDERPASS

SEC. 2, T34N., R21E., W.M.  
FED. PROJ. NO.: STPR-1465(002)  
CONTRACT NO.: TA5544

### TOWN OF WINTHROP OFFICIALS:

**MAYOR**  
ROBERT W. GRIM

**TOWN PLANNER**  
ROCKLYNN CULP

**COUNCIL MEMBERS**  
ED ZUCKERMAN  
JOSEPH O'DRISCOLL  
MARISA MONTEVERDE  
SETH MILES  
SONESHAW

**PUBLIC WORKS SUPERINTENDENT**  
JAKE GATES

SHEET NUMBER	SHEET TITLE	DESCRIPTION
1	COVER SHEET	
2	QTY-1	SUMMARY OF QUANTITIES
3	AL-01	ALIGNMENT PLAN
4	DM-01	DEMO & EROSION CONTROL PLAN
5	DM-02	DEMO & EROSION CONTROL PLAN
6	PP-01	PLAN VIEW
7	PP-02	TRAIL PROFILES
8	DT-01	TYPICAL SECTIONS
9	DT-02	WALL PROFILES
10	DT-03	FENCE AND RAILING DETAILS
11	DT-04	STAIR AND DRAINAGE DETAILS
12	SN-00	SOIL NAIL WALL SPECIFICATIONS
13	SN-01	SOIL NAIL WALL PLAN VIEW
14	SN-02	SOIL NAIL WALL LAYOUT AND SCHEDULE
15	SN-03	SOIL NAIL WALL SECTION VIEW
16	SN-04	SOIL NAIL WALL SOIL NAIL DETAIL
17	SN-05	SOIL NAIL WALL DETAIL
18	SN-06	SOIL NAIL WALL FACING DETAILS
19	SEW-01	STRUCTURAL EARTH WALL ELEVATION
20	SEW-02	STRUCTURAL EARTH WALL TYPICAL SECTION
21	SEW-03	STRUCTURAL EARTH WALL TYPICAL SECTION
22	TC-01	TRAFFIC CONTROL
23	TC-02	TRAFFIC CONTROL
24	ES-01	PLANTING PLAN

### NOTES:

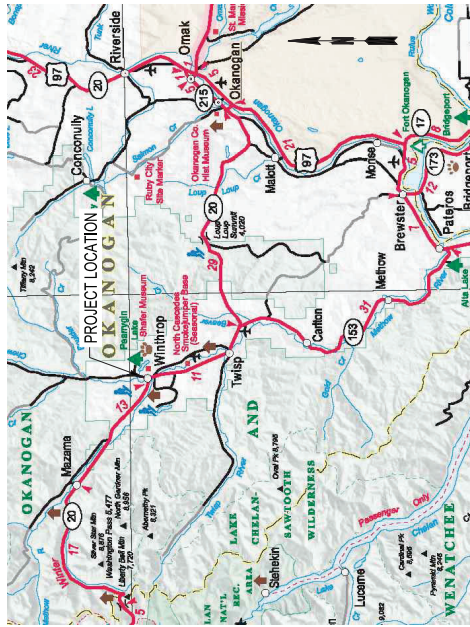
- WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS, THE 2025 WDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION WHICH ARE HEREBY REFERENCED AS A PART OF THESE PLANS.
  - THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS AND THE INFORMATION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING. THE PROPOSED WORK IMPROVEMENTS, IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE CITY OF ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED.
- CAUTION - NOTICE TO CONTRACTOR**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, STRUCTURES, AND OTHER RECORDS OF UTILITIES, THE INFORMATION IS NOT TO BE BELIEVED AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY LOCATE COMPANY PRIOR TO CONSTRUCTION.
- CALL BEFORE YOU DIG:**
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

### VERTICAL DATUM:

NAVD 88

### BASIS OF BEARING:

THE BASIS OF BEARING IS NORTH 3 DEGREES 18 MINUTES WEST ALONG THE EASTERLY RIGHT OF WAY CORRAL STREET RIGHT-OF-WAY CORNER PER SURVEY PERFORMED BY HOGAN SURVEYING.



TOWN OF WINTHROP LOCATION MAP



CHEWUCH BRIDGE UNDERPASS PROJECT LOCATION MAP

REVISIONS	DATE	BY	REVISION BY	ISSUE DATE
				MARCH 2025

ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	DATE: MARCH 2025
	DRAWN BY: SCJ
	CHECKED BY: D. ALLEN
	JOB NO.: 071605
	DRAWING FILE NO.: 071605041



**SCJ ALLIANCE**  
CONSTRUCTION MANAGEMENT

25 N WENATCHEE BLVD. WENATCHEE, WA 98801  
P. 509.882.2328 F. 509.352.1209  
SCJALLIANCE.COM

### PROJECT NAME

TOWN OF WINTHROP  
OKANOGAN COUNTY  
WASHINGTON

TOWN OF WINTHROP  
SR 20  
BRIDGE UNDERCROSSING

COVER SHEET

### DRAWING NO.

CV-01

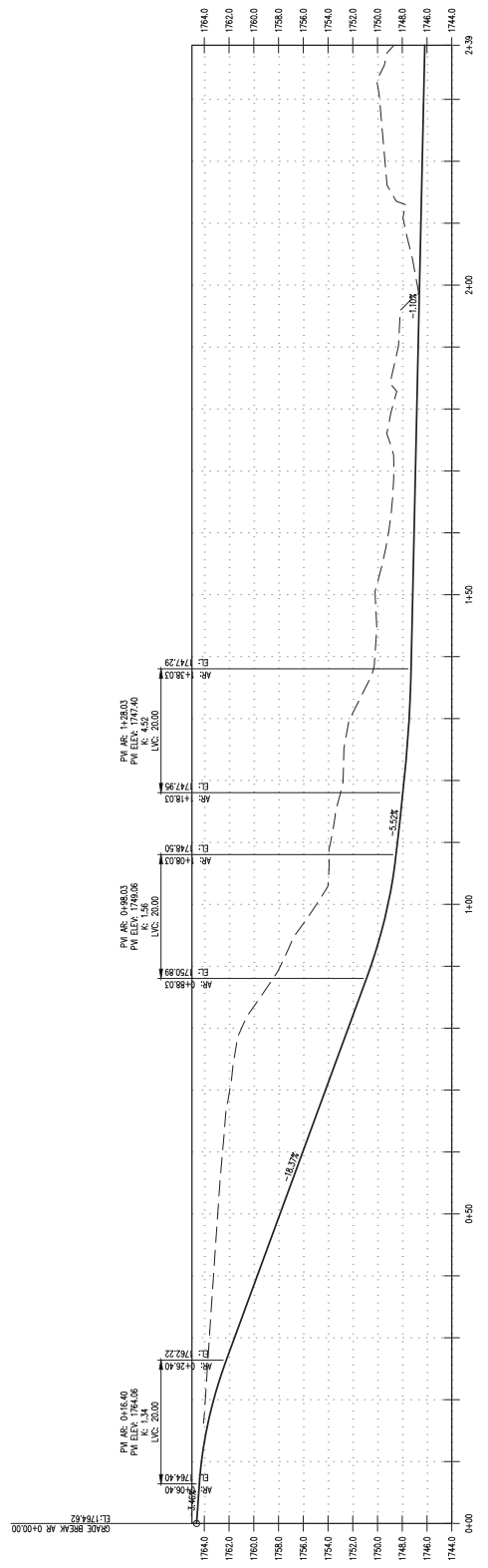
### SHEET NO.

1 of 24

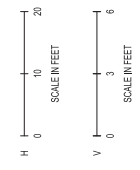




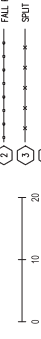
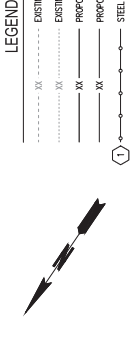




CONSTRUCTION ACCESS ROAD PROFILE



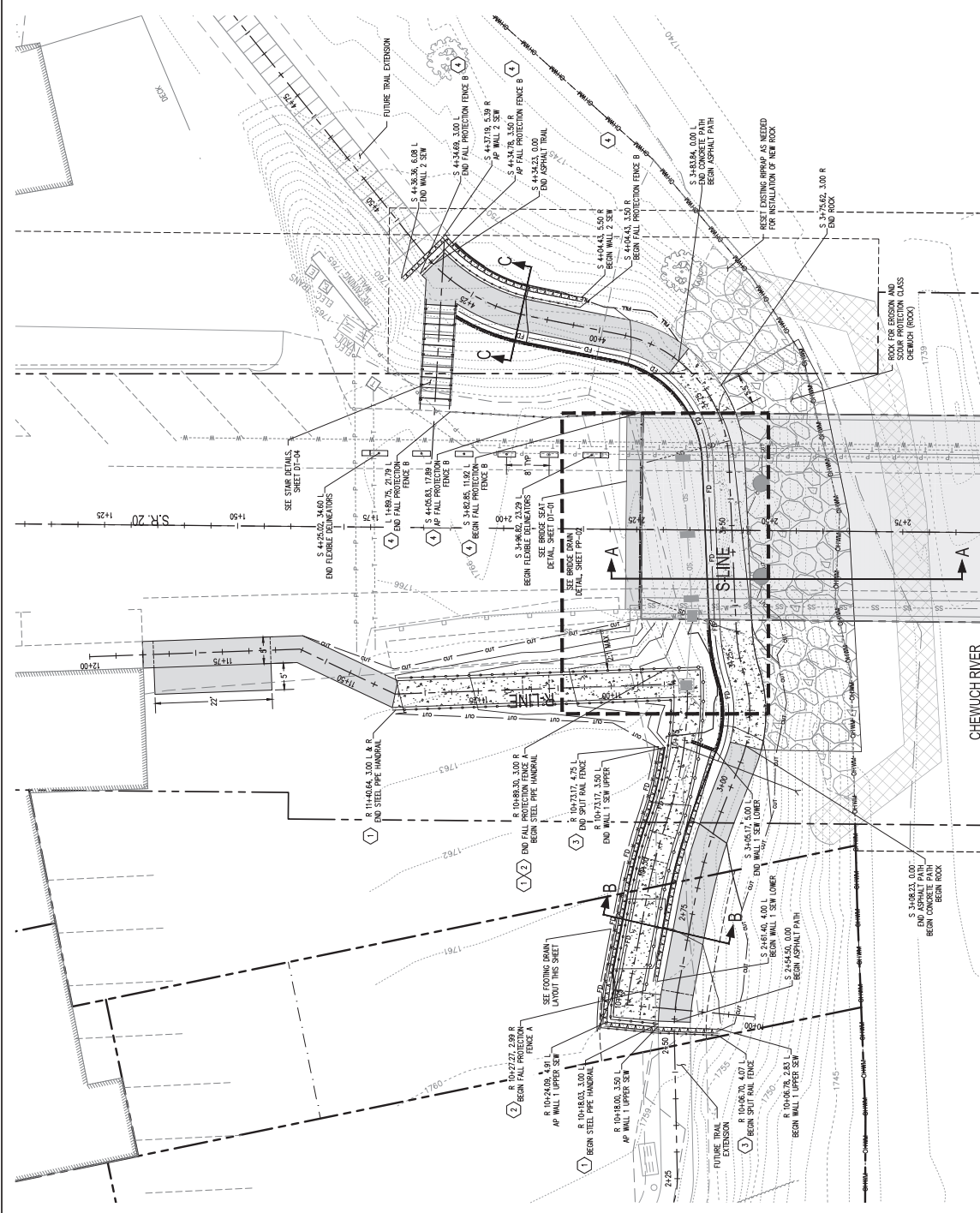
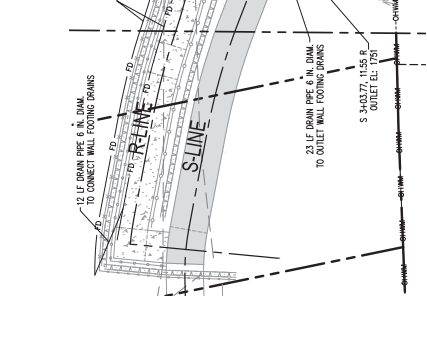
RESUBS <input type="checkbox"/>	DATE	BY	DESIGNED BY	ISSUE DATE		 SCJ ALLIANCE 25 N WEMATCHIE P. 360-582-2328 F. 360-352-1209 SCJALLIANCE.COM	PROJECT NAME TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON	DRAWING NO. DM-02 SHEET NO. 5 of 24
			DRAWN BY: ... CHECKED BY: D. ALLEN	JOB NO.: 071605 DRAWING FILE NO.: 071605.DWG1				



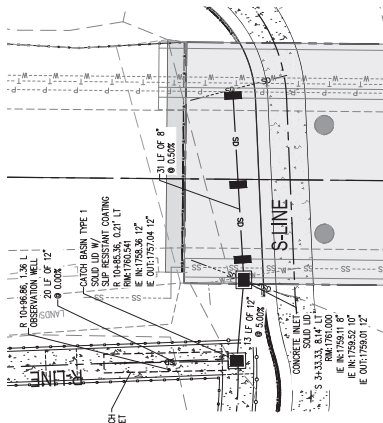
- LEGEND**
- EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - ① STEEL PIPE HANDRAIL - PER DETAIL ON SHEET DT-02
  - ② STEEL PIPE HANDRAIL - PER DETAIL ON SHEET DT-02
  - ③ STEEL PIPE HANDRAIL - PER DETAIL ON SHEET DT-02
  - ④ STEEL PIPE HANDRAIL - PER DETAIL ON SHEET DT-02
  - ① FALL PROTECTION FENCE A (METAL) - PER DETAIL ON SHEET DT-02
  - ② FALL PROTECTION FENCE B (WOOD) - PER DETAIL ON SHEET DT-02
  - ③ FALL PROTECTION FENCE C (STEEL) - PER DETAIL ON SHEET DT-02
  - ④ FALL PROTECTION FENCE D (STEEL) - PER DETAIL ON SHEET DT-02
  - STRUCTURAL EARTH WALL (SEW) - SEE SHEETS SEW1A-SEW1D
  - SOIL NAIL WALL - SEE SHEETS S11U-S11D
  - FALL LINE
  - ASPHALT PATH, PER TYPICAL SECTION ON SHEET DT-01
  - CONCRETE PATH, PER TYPICAL SECTION ON SHEET DT-01
  - ROCK FOR EROSION AND SCOUR PROTECTION CLASS CHEMICAL, PER SECTION A, SHEET DT-01
  - COPED WALL, PER SECTION A, SHEET DT-01
  - PERFORATED WALL, PER SECTION A, SHEET DT-01
  - GRADED VERTICAL ELEMENT, PER DETAIL ON SHEET S14D
  - PIPE ANCHOR
  - CATCH BASIN/CONCRETE INLET
  - CURB MOUNTED DELINEATOR SYSTEM
  - WALL FOOTING DRAIN PER SHEET S14D

**NOTES:**

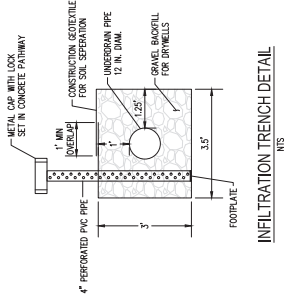
1. SEE SECTION CUTS ON SHEET DT-01 TO BE CONSIDERED FOR CONSTRUCTION.
2. PERFORM CONCURRENTLY WITH PLACEMENT OF ROCK FOR EROSION CONTROL.



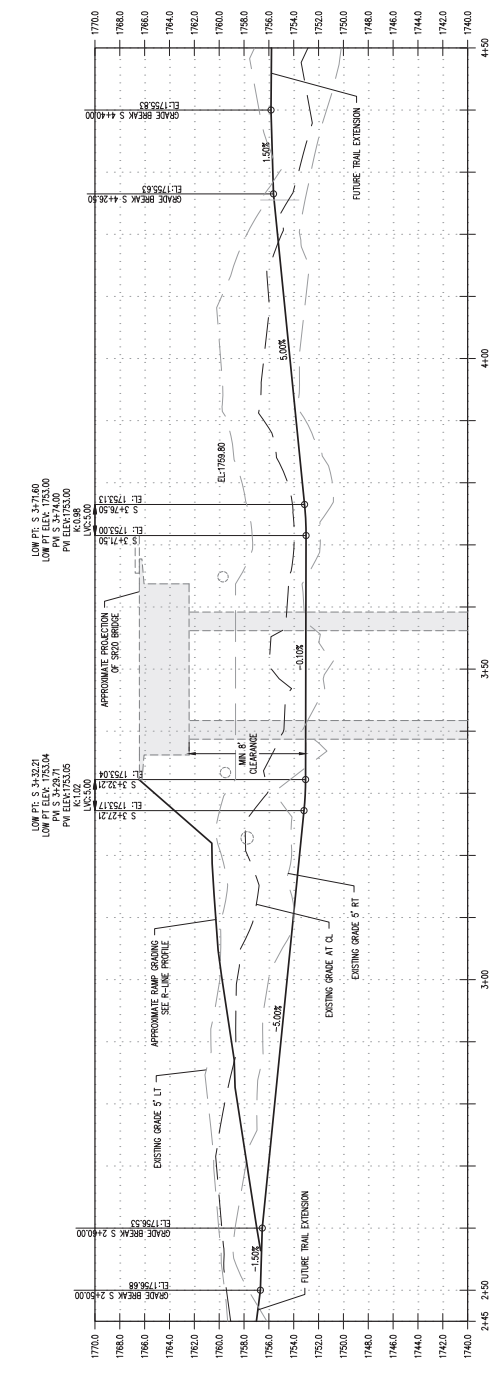
DRAWING NO.: PP-01 SHEET NO.: 6 of 24	TOWN OF WINTHROP SR 20 BRIDGE UNDERCROSSING		PROJECT NAME: TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON	
	PLAN VIEW		PROJECT TIME: SCJ ALLIANCE 25 N WEMATCHIE BLVD. STE. 100 WASHINGTON, WA 98051 P. 360.552.5255 F. 360.552.5259 SCJALLIANCE.COM	
REVISIONS	DATE	DESIGNED BY: D. ALLEN	CHECKED BY: C. HENKEL	ISSUE DATE: MARCH 2008
ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED				



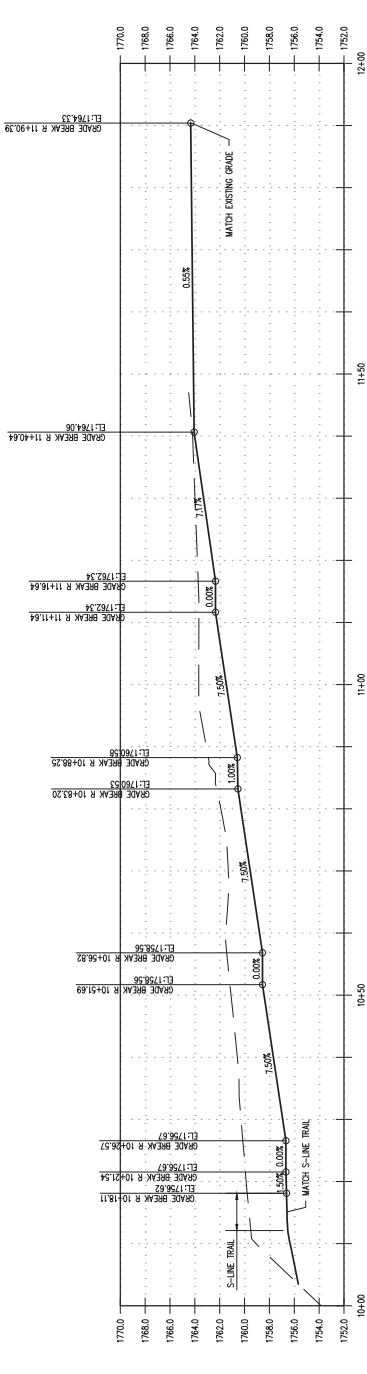
**BRIDGE DRAIN DETAIL**  
1"=10'  
SEE DRAINAGE PROFILE ON SHEET DT-03



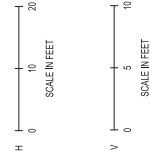
**INFILTRATION TRENCH DETAIL**  
1"=12"



**S-LINE PROFILE**



**R-LINE PROFILE**

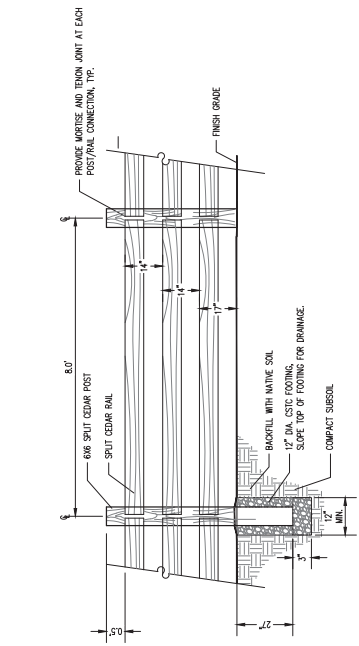


LOW P.C. S 2432.21  
LOW P.T. S 2432.04  
P.M. S 2432.77  
P.V. S 2432.05  
L.V.S 2432.00

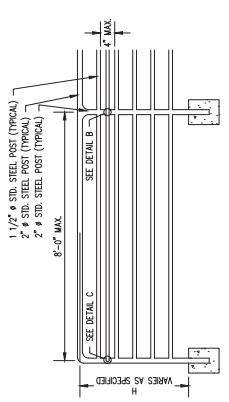
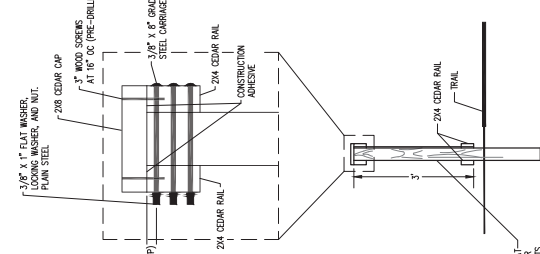
LOW P.C. S 3472.60  
LOW P.T. S 3472.60  
P.M. S 3472.00  
P.V. S 3472.00  
L.V.S 3472.00

	<b>SCJ ALLIANCE</b> <small>CONSTRUCTION SERVICES</small> 25 N WEMATCHIE BLVD. P. 360-585-2358 F. 360-582-1509 SCJALLIANCE.COM	PROJECT NAME <b>TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON</b>	DRAWING NO. <b>PP-02</b>
	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	DATE MARCH 2008	DRAWN BY C. HALL
DESIGNED BY D. ALLEN	CHECKED BY C. HALL	PROJECT NO. 07185-PROJ-01	BRIDGE UNDERCROSSING TRAIL PROFILES

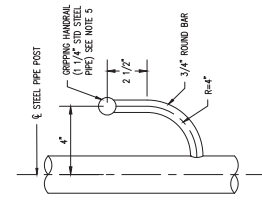




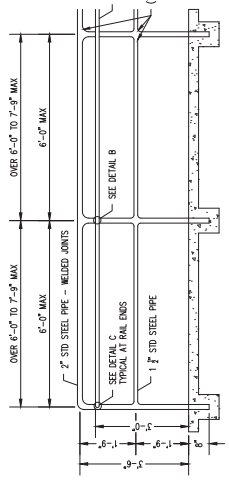
3 SPLIT RAIL FENCE  
NTS



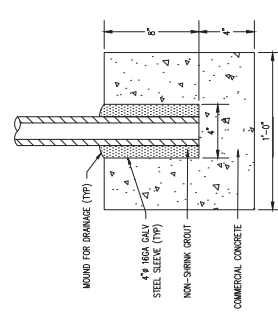
2 FALL PROTECTION FENCE A (METAL)



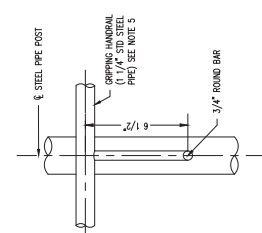
SECTION B-B



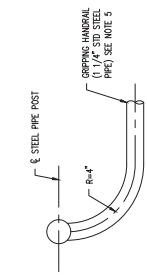
1 STEEL PIPE HANDRAIL



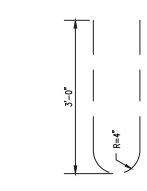
DETAIL A



DETAIL B

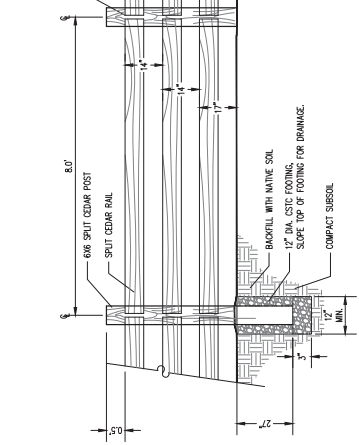


SECTION C-C

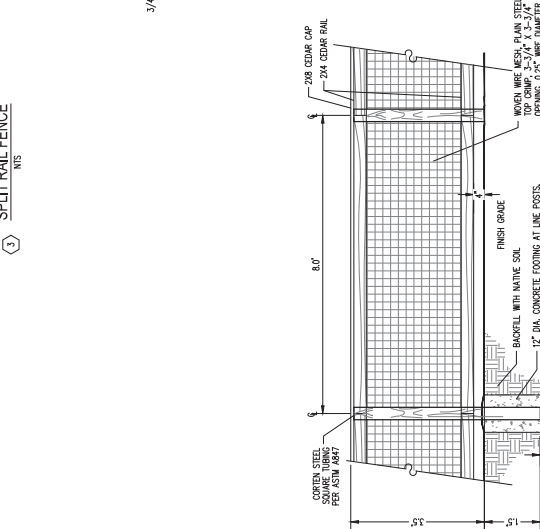


DETAIL C

- NOTES:
1. ALL POSTS MUST BE PLUMB AND RAILS PARALLEL TO THE GROUND.
  2. PIPE MATERIAL MUST CONFORM TO ASTM A 53.
  3. REINFORCING STEEL ASTM A 706 GR 60.
  4. IF THE SLOPE IS 5% OR GREATER A GRIPPING HANDRAIL IS REQUIRED. GRIPPING HANDRAILS ON BOTTOM OF RAILS SHALL BE MINIMUM 58\"/>
  - 5. PIPE DIAMETERS SHOWN CORRESPOND TO PIPE "SHAPE" AS DEFINED IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
  - 6. RAILS TO BE MINIMUM A53 TYPE E, GRADE B, 2 IN. NOMINAL DIAMETER, MINIMUM SECTION MODULUS 0.561 IN<sup>3</sup> (GALV. STEEL OR ALUMINUM THAT IS EQUAL OR BETTER STRENGTH)
  - 7. POSTS, HANDRAILS, CONNECTIONS, JOINTS AND HARDWARE SHALL HAVE A SMOOTH SURFACE. WELDS SHALL BE PAINTED IN ACCORDANCE WITH MOST CURRENT AASHTO STANDARD SPECIFICATIONS.
  - 8. FOOTINGS TO BE COMMERCIAL CLASS CONCRETE.
  - 9. SEE AASHTO LIFT BRIDGE DESIGN SPECIFICATIONS FOR RAIL VERTICAL SPACING REQUIREMENTS.
  - 10. SEE SEC. 3.06 FOR GRADING REQUIREMENTS.
  - 11. SEE SEC. 3.06 FOR GRADING REQUIREMENTS.
  - 12. THE RAILING SHALL MEET THE REQUIREMENTS OF THE AASHTO LIFT BRIDGE DESIGN SPECIFICATIONS.



4 FALL PROTECTION FENCE B (WOOD)  
NTS



	PROJECT NAME TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON	DRAWING NO. DT-02	SHEET NO. 10 OF 24
	PROJECT NAME TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON	PROJECT NAME TOWN OF WINTHROP SR 20 BRIDGE UNDERCROSSING FENCE AND RAILING DETAILS	
	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	ISSUE DATE MARCH 2008	DRAWN BY ...
	SCJ ALLIANCE CONSULTING ENGINEERS P. 509-885-2328 F. 360-352-1509 SCJALLIANCE.COM	CHECKED BY D. ALLEN	DATE BY



## GENERAL NOTES

### GENERAL

THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR THE CONSTRUCTION PROCESS AND THE SAFETY OF THE WORKERS. THIS INCLUDES BUT IS NOT LIMITED TO, CONSTRUCTION SEQUENCE, TEMPORARY HANDRAILS, EXCAVATION ACCESS, AND BARRIERS. IT ALSO INCLUDES LIFTING OF MATERIALS AND CONSTRUCTION EQUIPMENT INTO AND OUT OF THE EXCAVATION, TEMPORARY BRACING OF SINGLE-SIDED FORMWORK, TEMPORARY SHORING OF EXCAVATIONS, AND STABILITY OF ALL TEMPORARY CUT SLOPES.

### EXISTING UNDERGROUND OBSTRUCTIONS AND UTILITIES

THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO STARTING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL ABANDONED UTILITIES, OR OTHER UNDERGROUND OBSTRUCTIONS THAT INTERFERE WITH THE NEW CONSTRUCTION. LOCATION AND/OR ABANDONMENT MUST BE COMPLETED PRIOR TO VERTICAL ELEMENT INSTALLATION, SOIL NAIL INSTALLATION, AND EXCAVATION.

### WORKMANSHIP

ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2025 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND AMENDMENTS.

### DESIGN

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION WITH CURRENT INTERIMS.
2. THE SEISMIC DESIGN PARAMETERS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, USING SITE CLASS C, AN EFFECTIVE PEAK GROUND ACCELERATION COEFFICIENT (AS) OF 0.206G, AND A SEISMIC HORIZONTAL ACCELERATION COEFFICIENT (KH) OF 0.103G.

### SECTION 1 - SOIL NAIL WALL

#### 1.1 CONSTRUCTION TOLERANCES

1. UNLESS OTHERWISE SHOWN ON THE PLANS, PROVIDE A MINIMUM CONCRETE COVER OF 2 INCHES MEASURED FROM THE EXTERIOR FACE OF CONCRETE TO THE OUTER SURFACE OF ANY REINFORCING STEEL.

#### 1.2 MATERIALS

1. CONCRETE SHALL BE CLASS 4000.
2. SHOTCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
3. THE SHOTCRETE FACING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2600 PSI BEFORE EXCAVATION FOR THE NEXT LOWER ROW OF NAILS.
4. SHOTCRETE SHALL NOT BE USED AS A REPLACEMENT FOR CAST-IN-PLACE CONCRETE.
5. THE SHOTCRETE FACING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2600 PSI BEFORE EXCAVATION FOR THE NEXT LOWER ROW OF NAILS.

### SECTION 2 - GROUTED VERTICAL ELEMENTS

#### 2.1 GENERAL

- A. THIS WORK SHALL CONSIST OF DRILLING AND INSTALLING THE GROUTED VERTICAL ELEMENTS AS SPECIFIED HEREIN AND SHOWN ON THE PLANS. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR COMPLETING THE WORK.
- B. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF THE WORK AND SHALL BE ATTENDED BY THE OWNER'S REPRESENTATIVES, THE ENGINEER, THE EXCAVATION CONTRACTOR, AND THE DRILLED SOLDIER PILE SPECIALTY CONTRACTOR. THE PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED TO CLARIFY THE CONSTRUCTION REQUIREMENTS FOR THE WORK, TO COORDINATE THE CONSTRUCTION ACTIVITIES, AND TO IDENTIFY CONTRACTUAL RELATIONSHIPS AND RESPONSIBILITIES.
- C. GROUTED VERTICAL ELEMENT REINFORCEMENT SHALL BE REMOVED TO A DEPTH OF TWO FEET BELOW FINAL GRADE UPON COMPLETION OF SOIL NAIL AND SHOTCRETE INSTALLATION.

#### 2.2 CONSTRUCTION TOLERANCES

- A. GROUTED VERTICAL ELEMENTS SHALL BE CONSTRUCTED SO THAT THE CENTER AT THE TOP OF THE ELEMENT IS WITHIN 2 INCHES OF THE PLAN LOCATION. ANY DEVIATION EXCEEDING THE ALLOWABLE TOLERANCES SHALL BE CORRECTED IMMEDIATELY.
- B. THE STEEL REINFORCEMENT SHALL BE PLACED WITHIN 1 INCH OF THE PLAN LOCATION.
- C. THE STEEL REINFORCEMENT SHALL BE PLACED WITHOUT DRIVING OR FORCING. WHEN THE STEEL REINFORCEMENT CANNOT BE COMPLETELY INSERTED INTO THE DRILLED HOLE WITHOUT DIFFICULTY, THE CONTRACTOR SHALL REMOVE THE REINFORCEMENT AND CLEAN OR REDRILL THE HOLE TO PERMIT INSERTION.

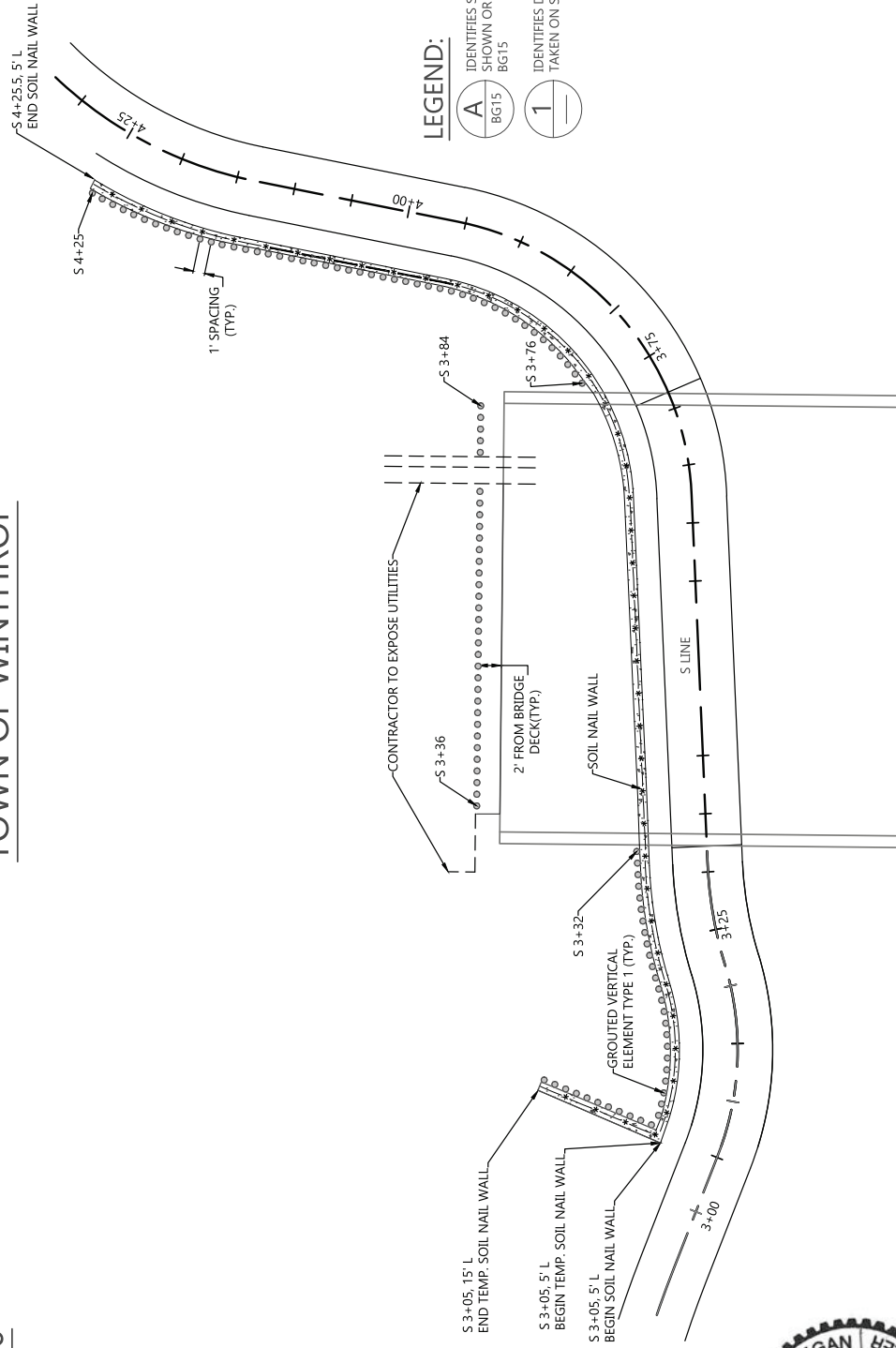


 Budinger & Associates	SOIL NAIL WALL SPECIFICATIONS	SHEET: SNO.0
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	PROJECT # S24424 DATE: 3/2026

# SEC. 2, T34N., R21E., WM

## TOWN OF WINTHROP

SR 20



- A** IDENTIFIES SECTION OR VIEW SHOWN OR TAKEN ON SHEET  
BG15
- 1** IDENTIFIES DETAIL SHOWN OR TAKEN ON SAME SHEET



4/22/2026

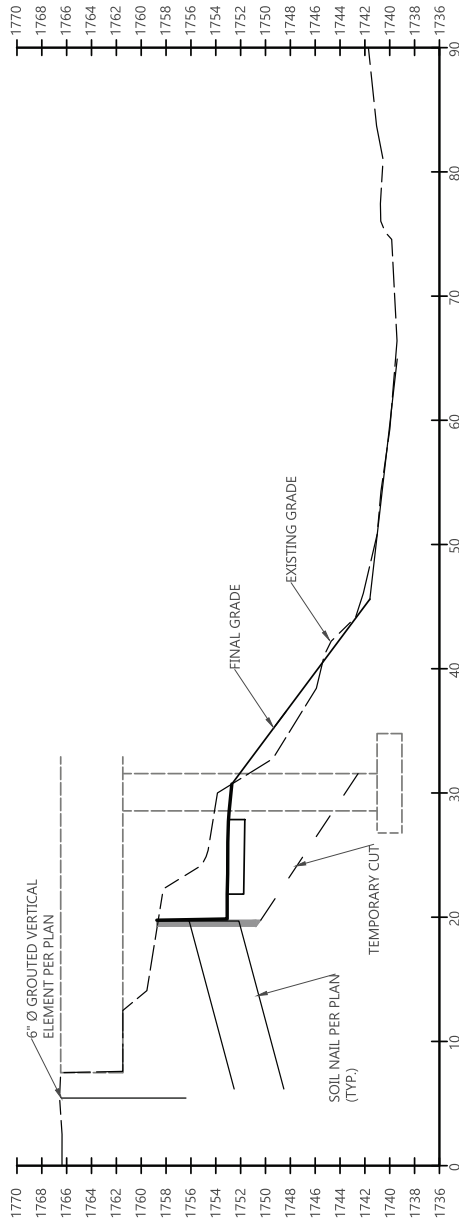
PLAN



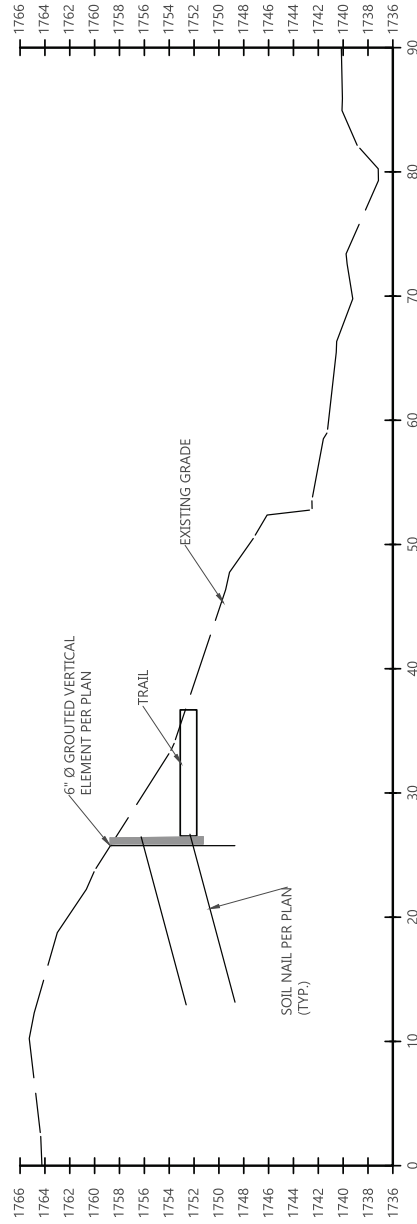
**SOIL NAIL WALL  
PLAN VIEW**  
TOWN OF WINTHROP, SR20 BRIDGE UNDERCROSSING  
WINTHROP, WASHINGTON

SHEET: SN1.0  
PROJECT # S24424  
DATE: 3/2026





TYPICAL SECTION AT STA 3+40

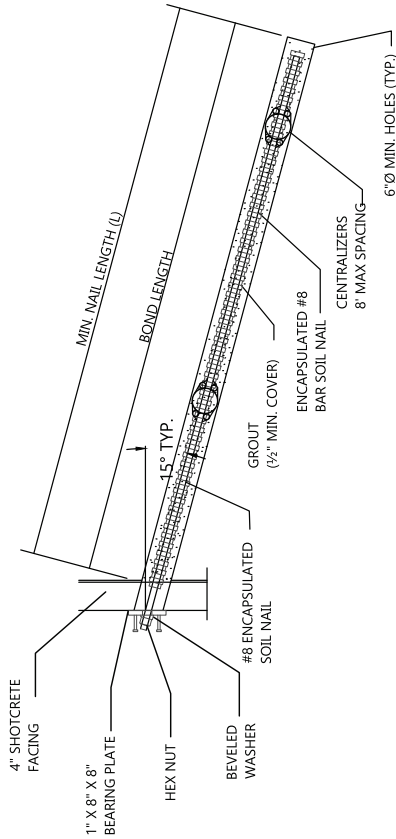


TYPICAL SECTION AT STA 3+75

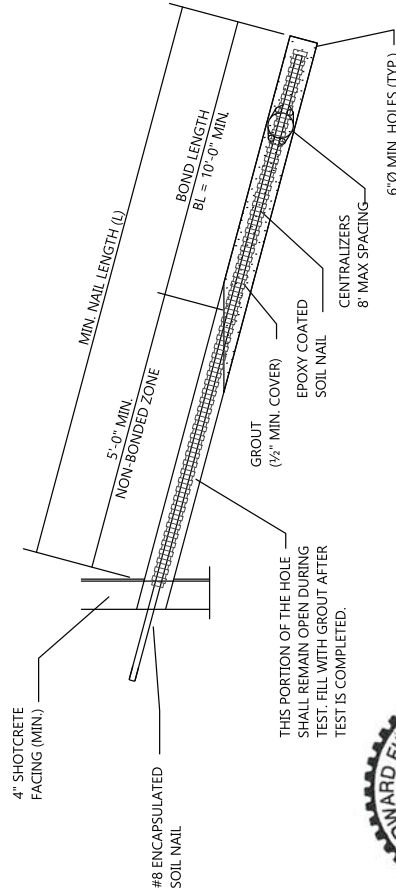


4/22/2026

 Budinger & Associates	SOIL NAIL WALL TYPICAL SECTION	SHEET: SN3.0 PROJECT # S24424 DATE: 3/2026
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	



**PRODUCTION SOIL NAIL DETAIL**

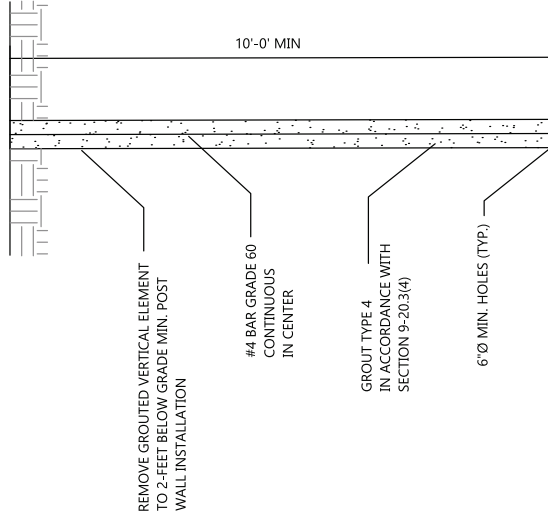


**ENCAPSULATED TEST NAIL DETAIL**

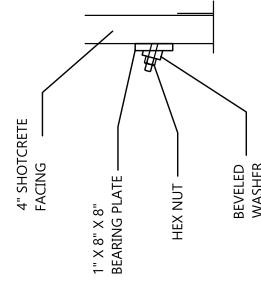
TL = TEST LOAD = (BOND LENGTH) x (DESIGN LOAD TRANSFER (DLT))



4/22/2026



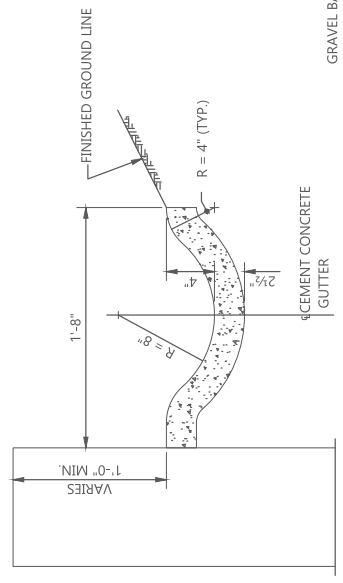
**GROUDED VERTICAL ELEMENT TYPE 1 DETAIL**



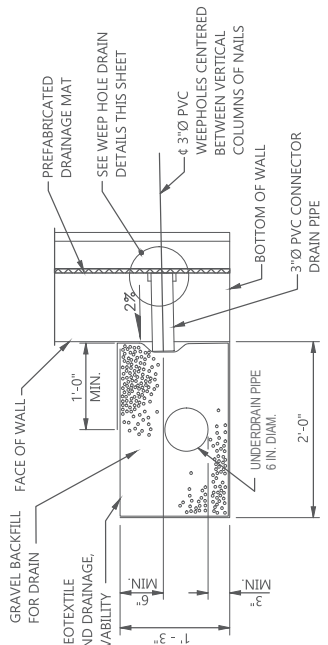
 Budinger & Associates	SOIL NAIL WALL SOIL NAIL DETAIL	SHEET: SN4.0 PROJECT # S24424 DATE: 3/2026
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	



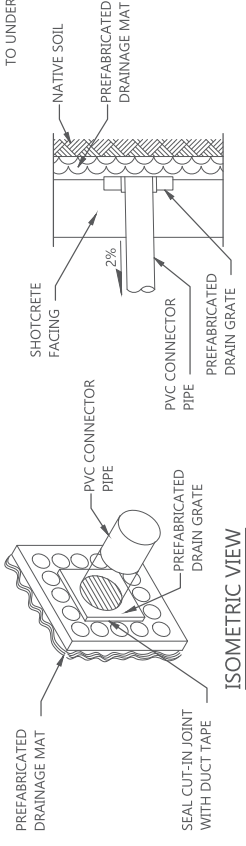
4/22/2026



**DETAIL 1**  
CEMENT CONCRETE GUTTER

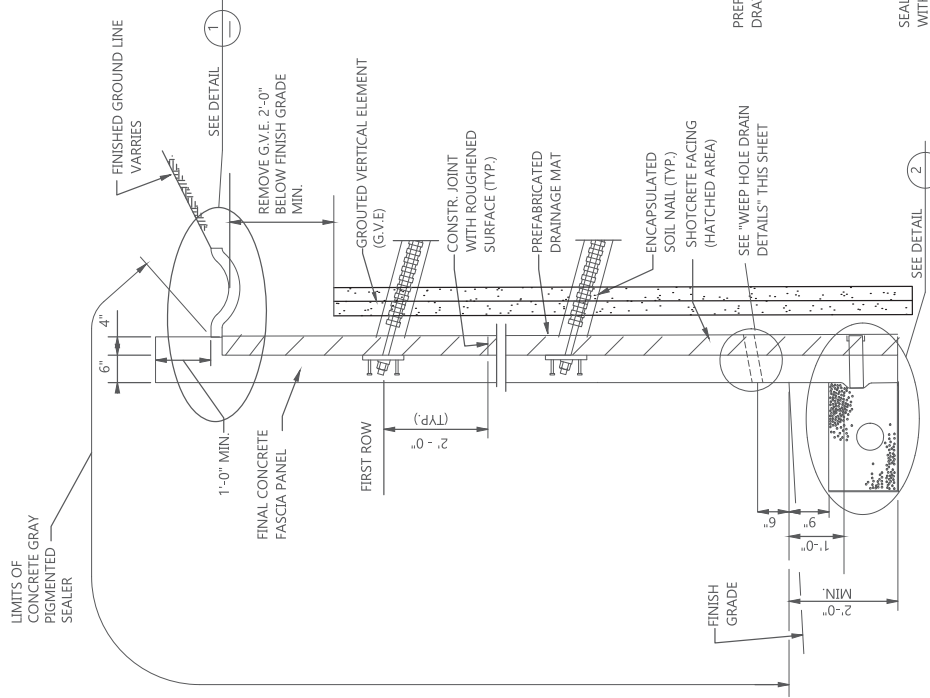


**DETAIL 2**  
TYPICAL FABRIC DRAIN CONNECTION TO UNDERDRAIN PIPE



**WEEP HOLE DRAIN DETAILS**

DRAIN GRATE INSTALLATION SHALL NOT DISRUPT PREFABRICATED DRAINAGE MAT



**TYPICAL SECTION ENCAPSULATED SOIL NAIL**

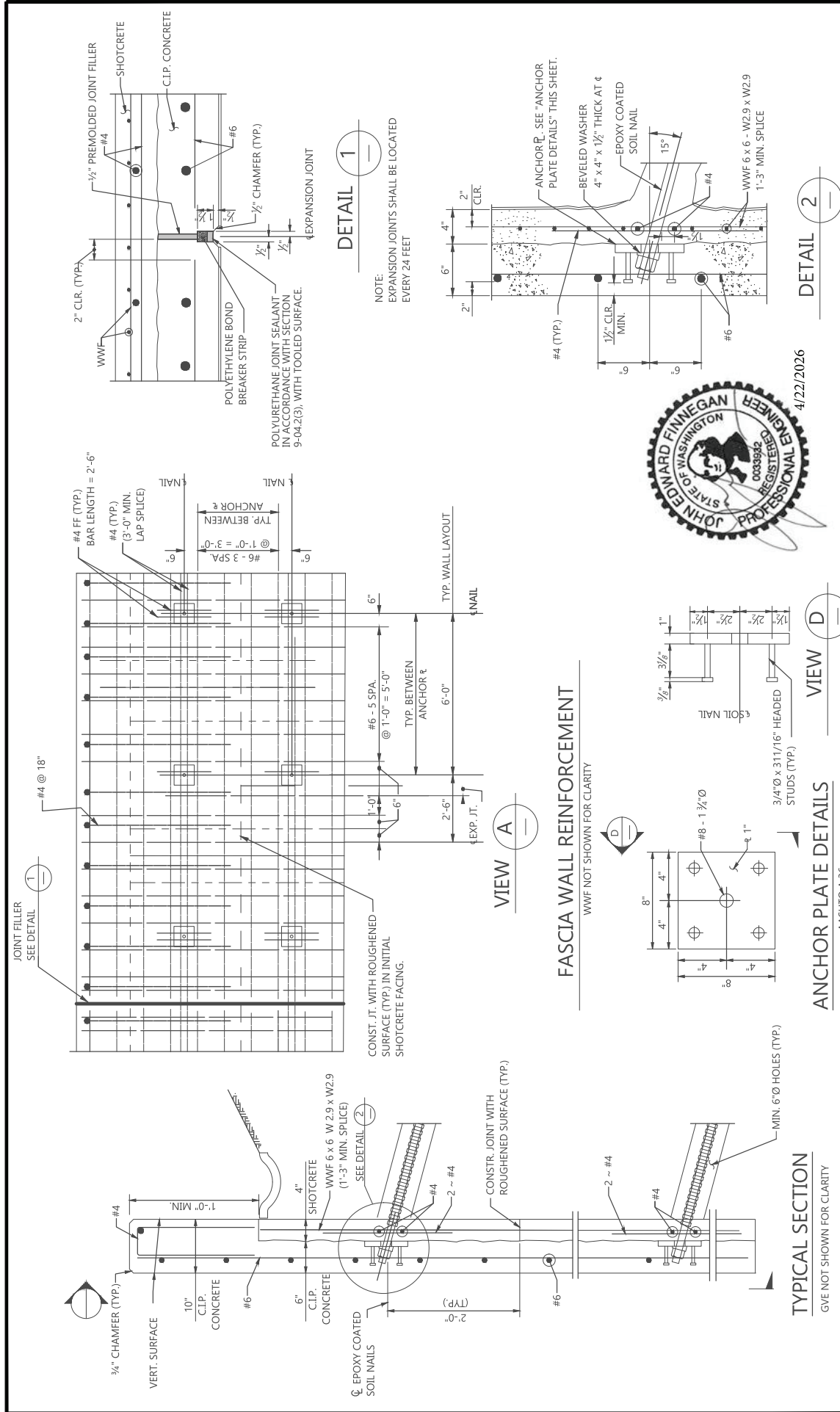
NOTE: CONCRETE FASCIA, CEMENT CONCRETE GUTTER, AND UNDERDRAIN PIPE NOT REQUIRED FOR TEMPORARY SOIL NAIL WALL

SHEET: SN5.0  
PROJECT # S24424  
DATE: 4/2026

SOIL NAIL WALL WALL DETAILS  
TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON



Budinger & Associates



**DETAIL 1**

NOTE:  
EXPANSION JOINTS SHALL BE LOCATED  
EVERY 24 FEET

**DETAIL 2**

4/22/2026

**FASCIA WALL REINFORCEMENT**

WWF NOT SHOWN FOR CLARITY

**ANCHOR PLATE DETAILS**

AASHTO A 36

**TYPICAL SECTION**

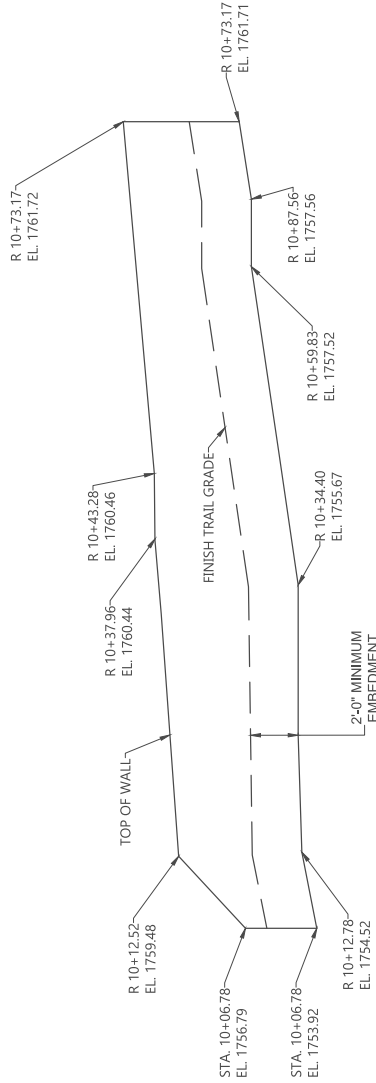
GIVE NOT SHOWN FOR CLARITY



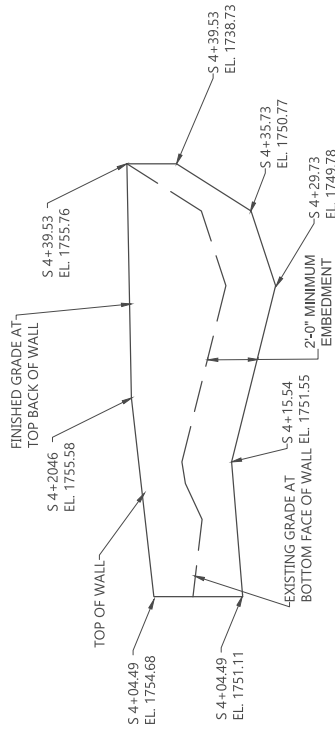
 Budinger & Associates	SOIL NAIL WALL FACING DETAILS	SHEET: SN6.0 PROJECT # S24424 DATE: 3/2026
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	



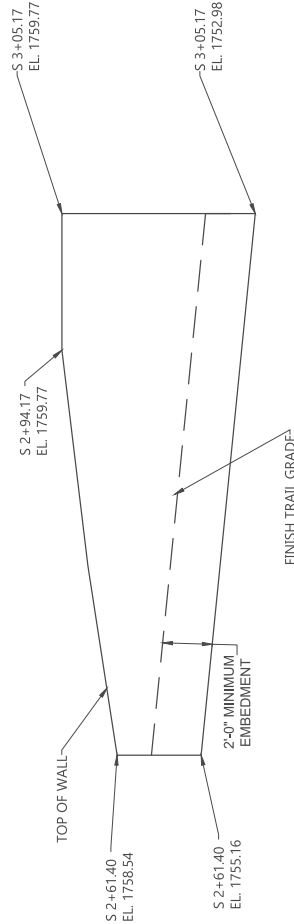
4/22/2026



**WALL 1 UPPER SEW ELEVATION**  
R-LINE STATIONING



**WALL 2 SEW ELEVATION**  
S-LINE STATIONING



**WALL 1 LOWER SEW ELEVATION**  
S-LINE STATIONING



Budinger  
& Associates

STRUCTURAL EARTH WALL  
ELEVATION

TOWN OF WINTHROP, SR20 BRIDGE UNDERCROSSING  
WINTHROP, WASHINGTON

SHEET: SEW1.0

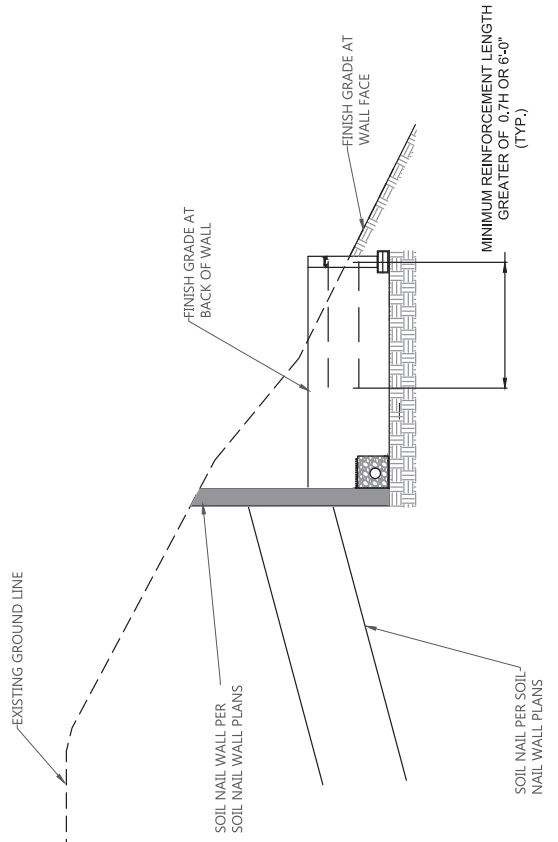
PROJECT # S24424

DATE: 4/2026

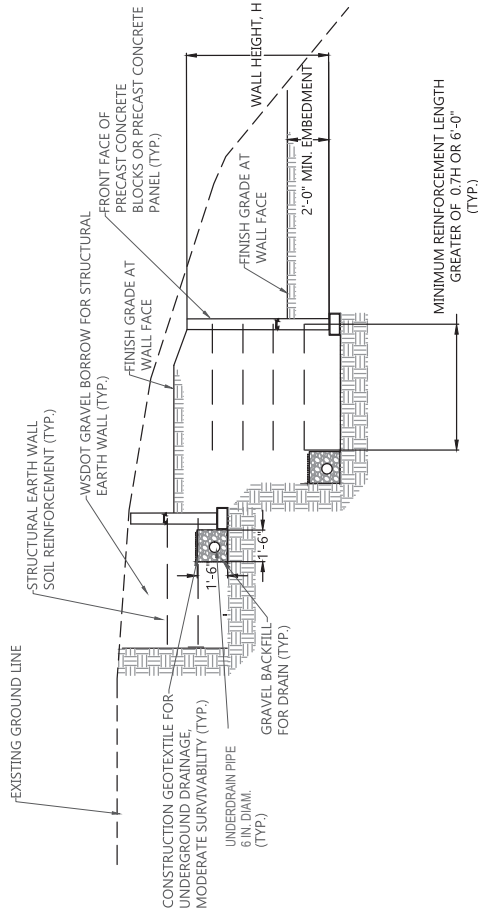


4/22/2026

SEW WALL DESIGN PARAMETERS			
SOIL	UNIT WEIGHT (PSF)	COHESION (PSF)	FRICTION ANGLE (DEGREE)
REINFORCED BACKFILL	130	0	34
RETAINED BACKFILL	125	0	34
FOUNDATION SOIL	125	0	34
			NOMINAL BEARING CAPACITY (KSF)
			N/A
			N/A
			22



SEW WALL SECTION  
WALL 2

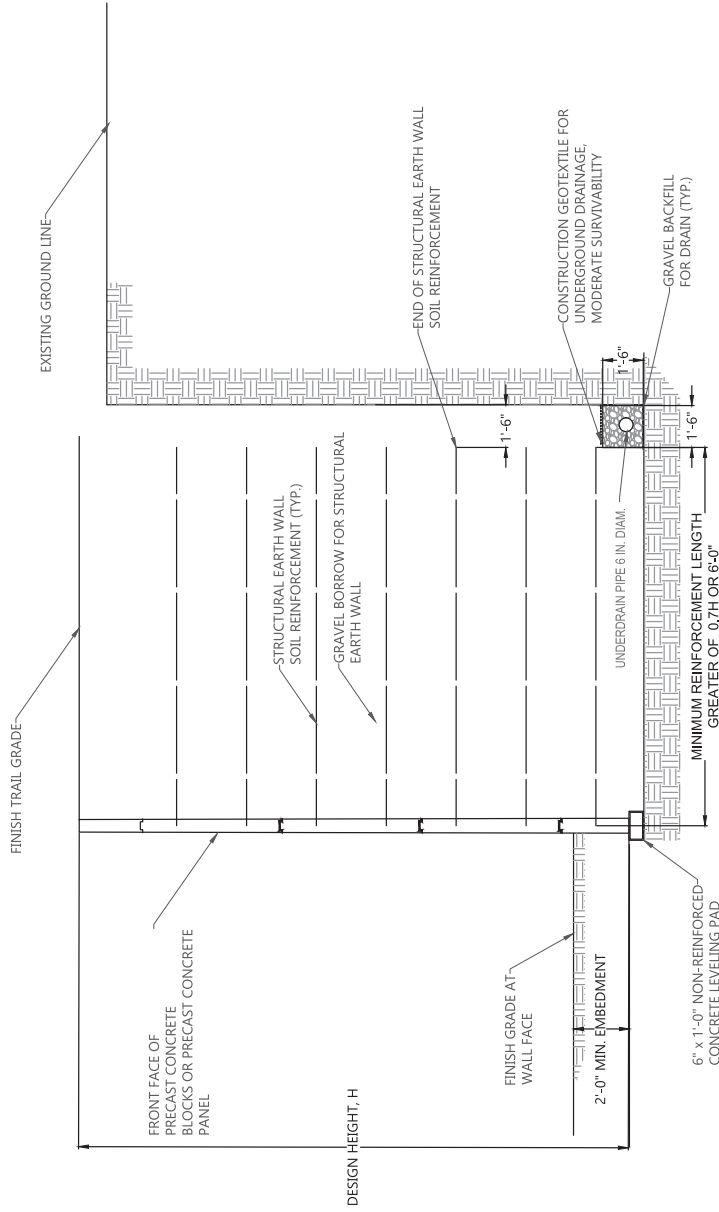


SEW WALL SECTION  
WALL 1

 Budinger & Associates	STRUCTURAL EARTH WALL TYPICAL SECTION	SHEET: SEW2.0
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	PROJECT # S24424
		DATE: 3/2026



4/22/2026



SEW TYPICAL SECTION

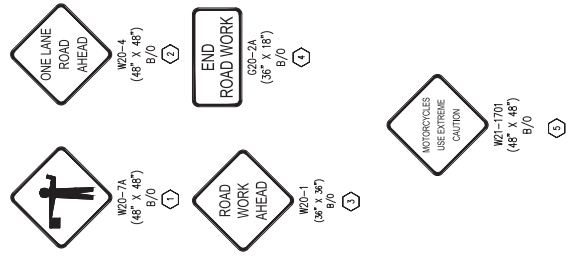
 Budinger & Associates	STRUCTURAL EARTH WALL TYPICAL SECTION	SHEET: SEW3.0 PROJECT # S24424 DATE: 4/2026
	TOWN OF WINTHROP SR20 BRIDGE UNDERCROSSING WINTHROP, WASHINGTON	



**LEGEND**

	CLASS A SIGNS
	CLASS B SIGNS
	FLAGGER

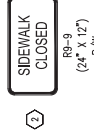
**SIGN KEY NOTES**



DRAWING NO.	TC-01
	SHEET NO.
PROJECT NAME	TOWN OF WINTHROP SR 20 BRIDGE UNDERCROSSING
	TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON
SCJ ALLIANCE <i>CONSTRUCTION SERVICES</i>	25 N WEMATCHIE BLVD. P. 509-585-2328 F. 509-352-1509 SCJALLIANCE.COM
	SEAL OF THE TOWN OF WINTHROP, OKANOGAN COUNTY, WASHINGTON 2002
ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	
ISSUE DATE	MARCH 2008
DESIGNED BY	CHRELL
DRAWN BY	CHRELL
CHECKED BY	D. ALLEN
DATE	
BY	
REVISIONS	

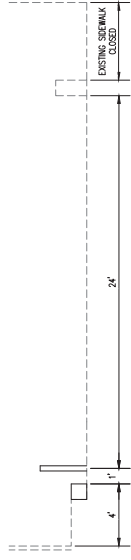


**PEDESTRIAN TRAFFIC CONTROL**

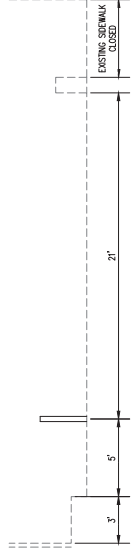


**GENERAL NOTES**

1. NO PEDESTRIAN TRAFFIC CONTROL SHALL BE LEFT IN PLACE OVER A WEEKEND



**OPTION 1 - TEMPORARY ADA SIDEWALK WIDENING INCLUDING RAMPS BOTH ENDS BRIDGE**



**OPTION 2 - TEMPORARY CHANNELIZED ADA PATH**

SECTION A - A  
FOR USE DURING WORK HOURS ONLY

			PROJECT NAME TOWN OF WINTHROP OKANOGAN COUNTY WASHINGTON	DRAWING NO. TC-02
ISSUE DATE MARCH 2025	DESIGNED BY D. GILLEN	DRAWN BY C. REHALL	CHECKED BY D. GILLEN	TOWN OF WINTHROP SR 20 BRIDGE UNDERCROSSING
ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	JOB NO. 071645	DRAWING FILE NO. 071645.TCP-21	PROJECT TIME PEDESTRIAN TRAFFIC CONTROL	SHEET NO. 23 of 24

