

EARTHWORK AND FOUNDATION EXCAVATION

- SPECIAL INSPECTIONS ARE REQUIRED.
- THE CONTRACTOR SHALL PERFORM EARTHWORK AND FOUNDATION EXCAVATION WORK ACCORDING TO RECOMMENDATIONS IN THE FEBRUARY 12, 2021 GEOTECHNICAL ENGINEERING STUDY REPORT BY CONDOR EARTH (CONDOR) AND OTHER REQUIREMENTS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL USE LIGHT COMPACTION EQUIPMENT TO COMPACT BACKFILL NEAR THE BACKSIDES OF STACKED ROCK RETAINING WALLS AND THEY SHALL TAKE CARE NOT TO MOVE/DEFLECT/DE-STABILIZE THE STACKED ROCK DURING BACKFILL PLACEMENT AND COMPACTION.

NEW STACKED ROCK RETAINING WALLS AND WALL IMPROVEMENTS

- INSPECTIONS ARE REQUIRED.
- THE CONTRACTOR SHALL FOLLOW CRITERIA IN THE FEBRUARY 12, 2021 GEOTECHNICAL ENGINEERING STUDY REPORT BY CONDOR AND OTHER CRITERIA SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT GEOTEXTILE FILTER FABRIC DATA AND A CONCRETE MIX DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE GEOTEXTILE FILTER FABRIC SHALL BE NON-WOVEN - MIRAFI 1120N OR AN APPROVED EQUAL.
- THE CONTRACTOR SHALL PLACE THE GEOTEXTILE FILTER FABRIC ACCORDING TO THE MANUFACTURER GUIDELINES, INCLUDING GUIDELINES FOR 6-INCH-MIN OVERLAP LENGTHS.
- THE CONTRACTOR SHALL SHINGLE OVERLAPS IN A PROPER CONFIGURATION TO REDUCE BACKFILL MITIGATION THROUGH THE OVERLAP AND THROUGH STACKED ROCK.
- THE ENGINEER SHALL EVALUATE THE ROCKS FOR ADEQUATE ANGULARITY AND SIZE BEFORE PLACEMENT.
- THE CONTRACTOR SHALL PLACE THE ROCKS USING CALTRANS METHOD A FOR ROCK SLOPE PROTECTION.
- THE CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 - 28-DAY COMPRESSIVE STRENGTH OF 2,000 POUNDS PER SQUARE INCH
 - NON-AIR-ENTRAINED
 - MAXIMUM WATER/CEMENT RATIO OF 0.67
 - MAXIMUM AGGREGATE SIZE OF 3/8-INCH
 - CEMENT CONFORMING TO PORTLAND TYPE II (ASTM C150)
- SEE EARTHWORK NOTES.

REINFORCED CAST-IN-PLACE CONCRETE

- SPECIAL INSPECTIONS ARE NOT REQUIRED FOR REINFORCED CONCRETE ELEMENTS SHOWN ON THESE DRAWINGS - DRILLED PIERS, MOORINGS, AND THICKENED CONCRETE SLABS OVER STACKED ROCK RETAINING WALLS. SEE BSE DRAWINGS FOR SPECIAL INSPECTION AND OTHER CONSTRUCTION REQUIREMENTS FOR OTHER REINFORCED CONCRETE CONSTRUCTION.
- THE DESIGN COMPRESSIVE STRENGTH OF THE CONCRETE IS 2,500 PSI AT 28 DAYS.
- THE CONCRETE SHALL HAVE NO AIR ENTRAINMENT AND A MAXIMUM WATER/CEMENT RATIO SHALL BE 0.67.
- THE MAXIMUM AGGREGATE SIZE SHALL BE 1-INCH.
- CEMENT SHALL BE PORTLAND TYPE II CONFORMING TO ASTM C150.
- CONCRETE SHALL CONTAIN A WATER DISPERSING ADMIXTURE - APPROXIMATELY 3 TO 5 OUNCES PER SACK OF CEMENT OF GRACE WRDA 64 OR APPROVED EQUAL.
- SLUMP SHALL BE 1 TO 4 INCHES.
- REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A615, INCLUDING SUPPLEMENT S1, AND CBC SECTIONS 1907 - 1908 OR ASTM A706 AT WELDED REINFORCEMENT CONDITIONS. LAP SPLICE AND DEVELOPMENT LENGTHS SHALL BE IN ACCORDANCE WITH ACI 318-08, AS DOCUMENTED BY THE CRSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- LAP SPLICE AND DEVELOPMENT LENGTHS SHALL CONFORM TO ACI 318 AS DOCUMENTED BY THE CRSI UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

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W4.1	DETAILS
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S1.1	FOUNDATION DETAILS

PREPARED BY:

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SYMBOLS	
	SECTION AND ELEVATION SECTION/ELEVATION/DETAIL IDENTIFICATION SECTION/ELEVATION/DETAIL LOCATION
	REVISION REVISION NUMBER AREA OF REVISION

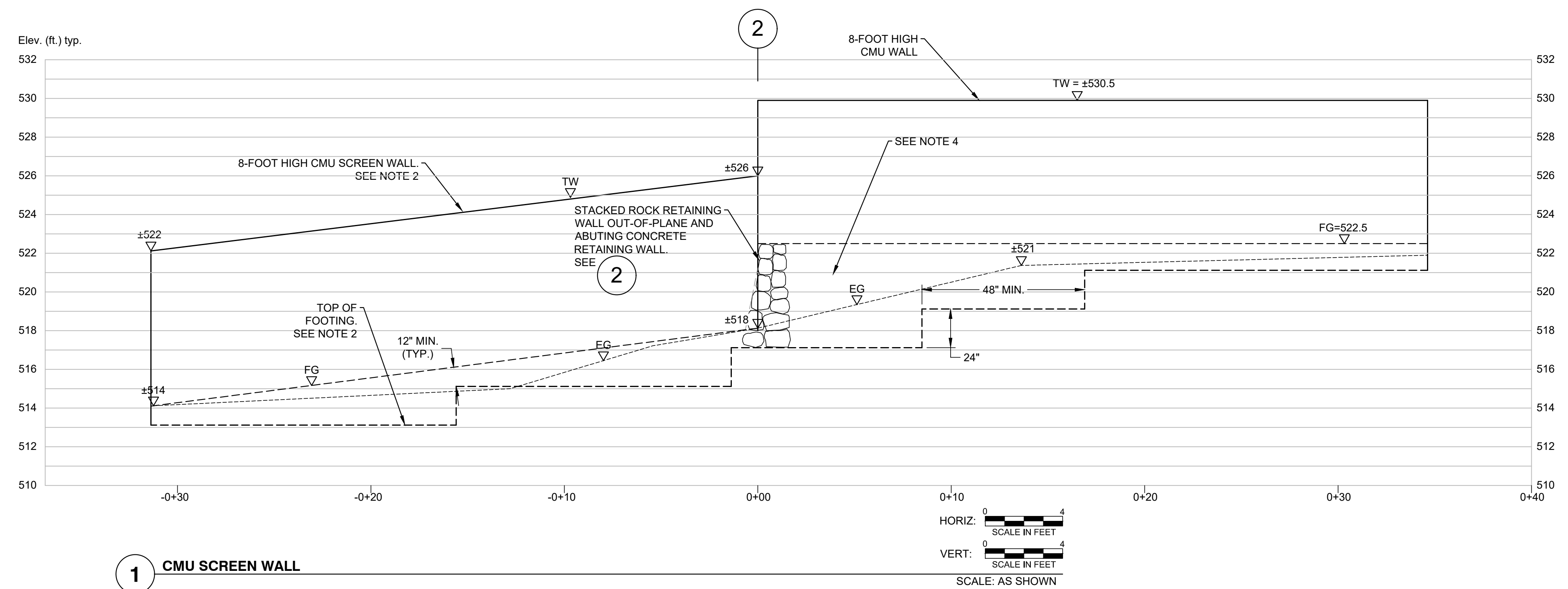
ABBREVIATIONS:	
(E)	EXISTING
EF	EACH FACE
EG	EXISTING GROUND
EW	EACH WAY
FF	FINISH FLOOR GRADE
FG	FINISH GRADE
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
(P)	PROPOSED
R	PLATE OR PROPERTY LINE
SCD	SEE CIVIL DOCUMENTS
SG	SOIL SUBGRADE
TOF	TOP OF FOOTING
TYP	TYPICAL
TW	TOP OF WALL

REV#	DATE	BY	DESCRIPTION
1	03.19.2021	ASK	FOR BIDDING
0	02.26.2021	ASK	FOR PERMIT

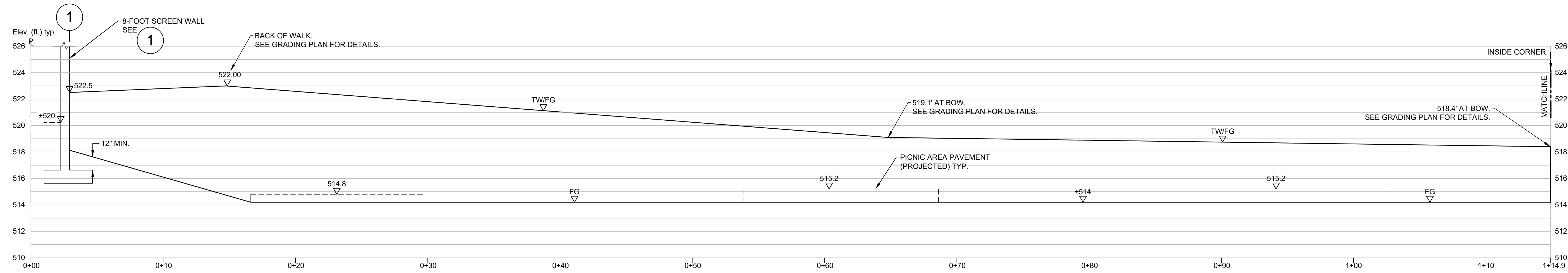
TRI-DAM PROJECT	
TULLOCH DAY USE SITE	
COVER SHEET AND NOTES	

	CONDOR EARTH 21663 Brian Lane P.O. Box 3905 Sonora, CA 95370 (209) 532-0361 fax(209) 532-0773 www.condorearth.com	SHEET W1.0
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1 CMU SCREEN WALL



2 SOUTHERN STACKED ROCK RETAINING WALL

- NOTES**
1. THE CONTRACTOR SHALL VERIFY EXISTING AND FINAL GRADES DURING CONSTRUCTION, SCD.
 2. SEE BSE DRAWINGS.
 3. THE CONTRACTOR SHALL STEP FOOTINGS ACCORDING TO BSE DRAWINGS. STEPS ARE SHOWN CONCEPTUALLY. THE CONTRACTOR SHALL REVISE STEPS DURING CONSTRUCTION. PROVIDE 12-INCH MINIMUM SOIL COVER AS SHOWN.
 4. FOOTING - SUPPORTED CAST-IN-PLACE CONCRETE RETAINING WALL BENEATH AND IN-PLANE WITH SCREEN WALL. SEE BSE DRAWINGS.



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TRI-DAM PROJECT

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UNFOLDED ELEVATIONS

CONDOR EARTH

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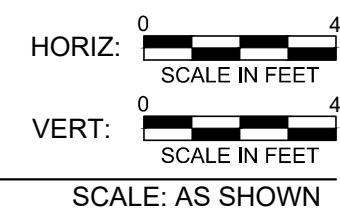
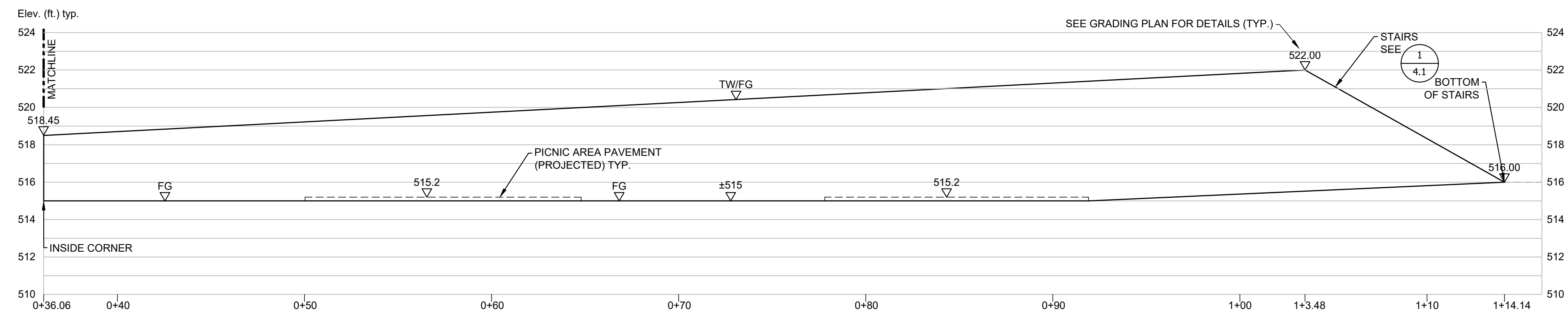
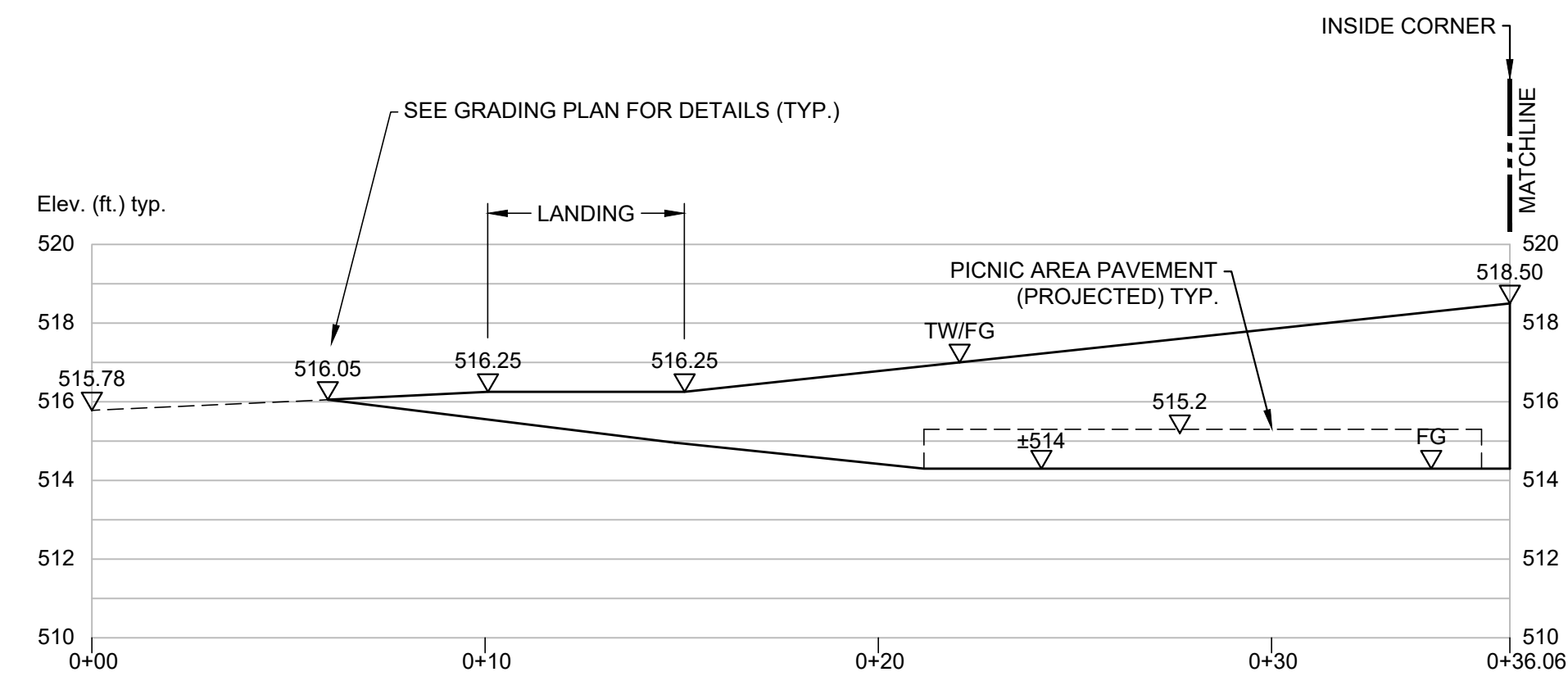
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NOTES

1. THE CONTRACTOR SHALL VERIFY EXISTING AND FINAL GRADES DURING CONSTRUCTION, SCD.



3 NORTHERN STACKED ROCK RETAINING WALL



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TRI-DAM PROJECT

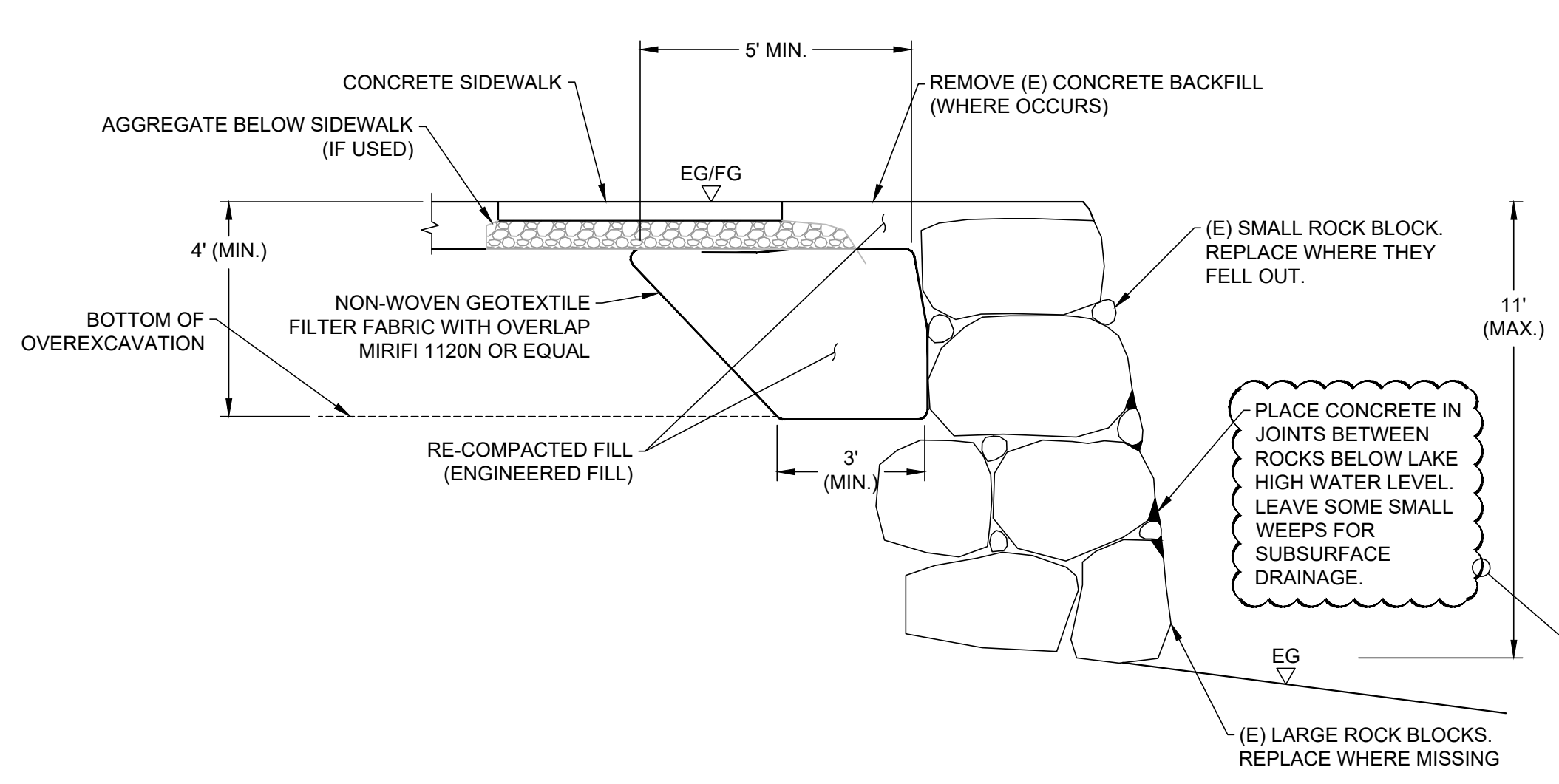
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UNFOLDED ELEVATION

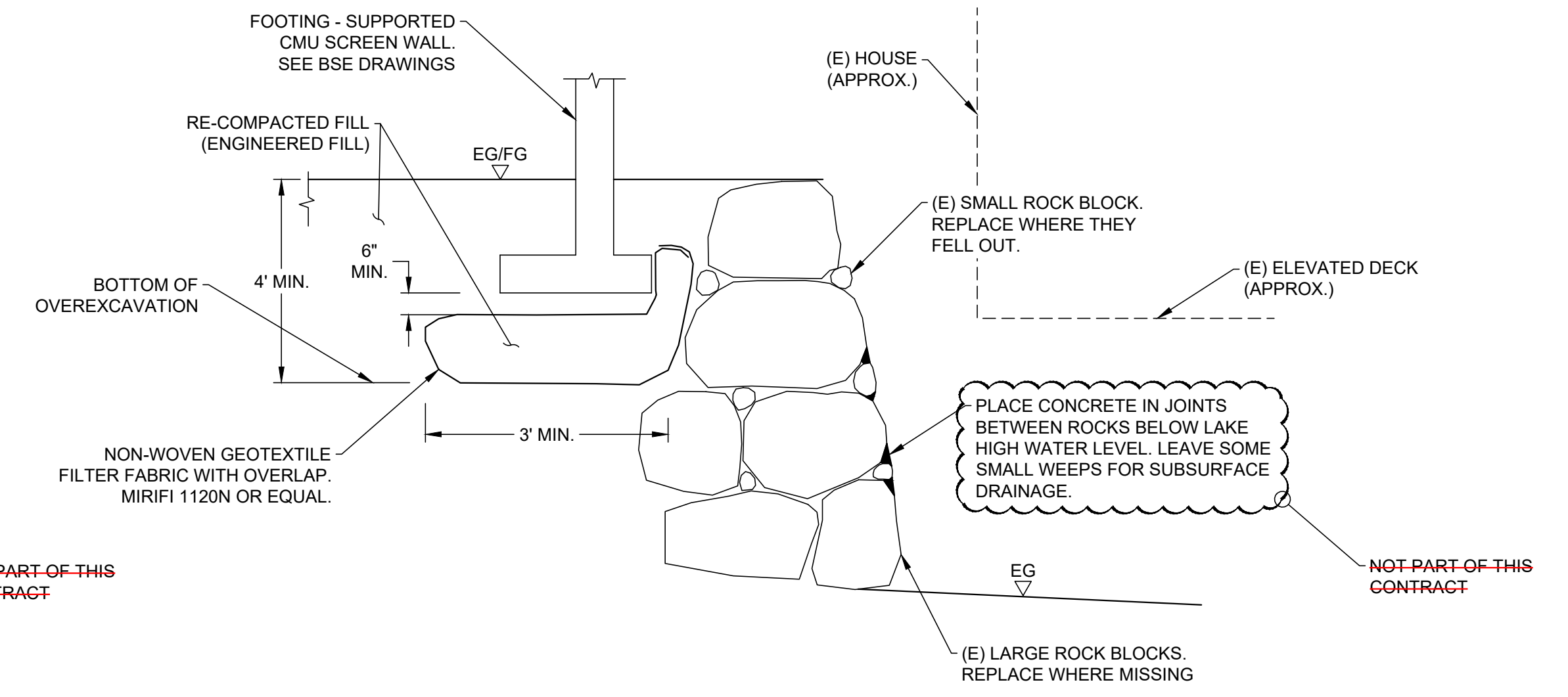
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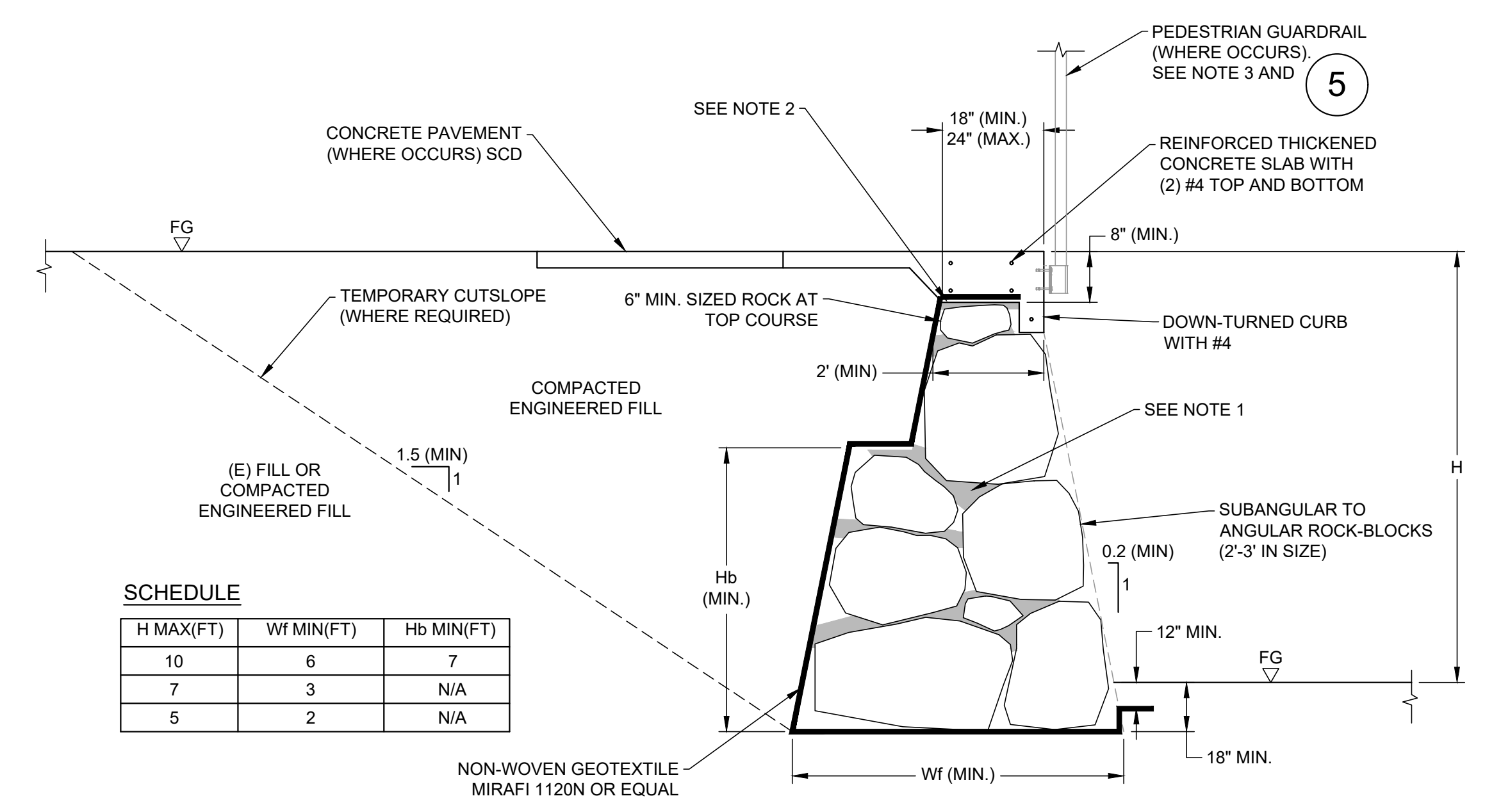


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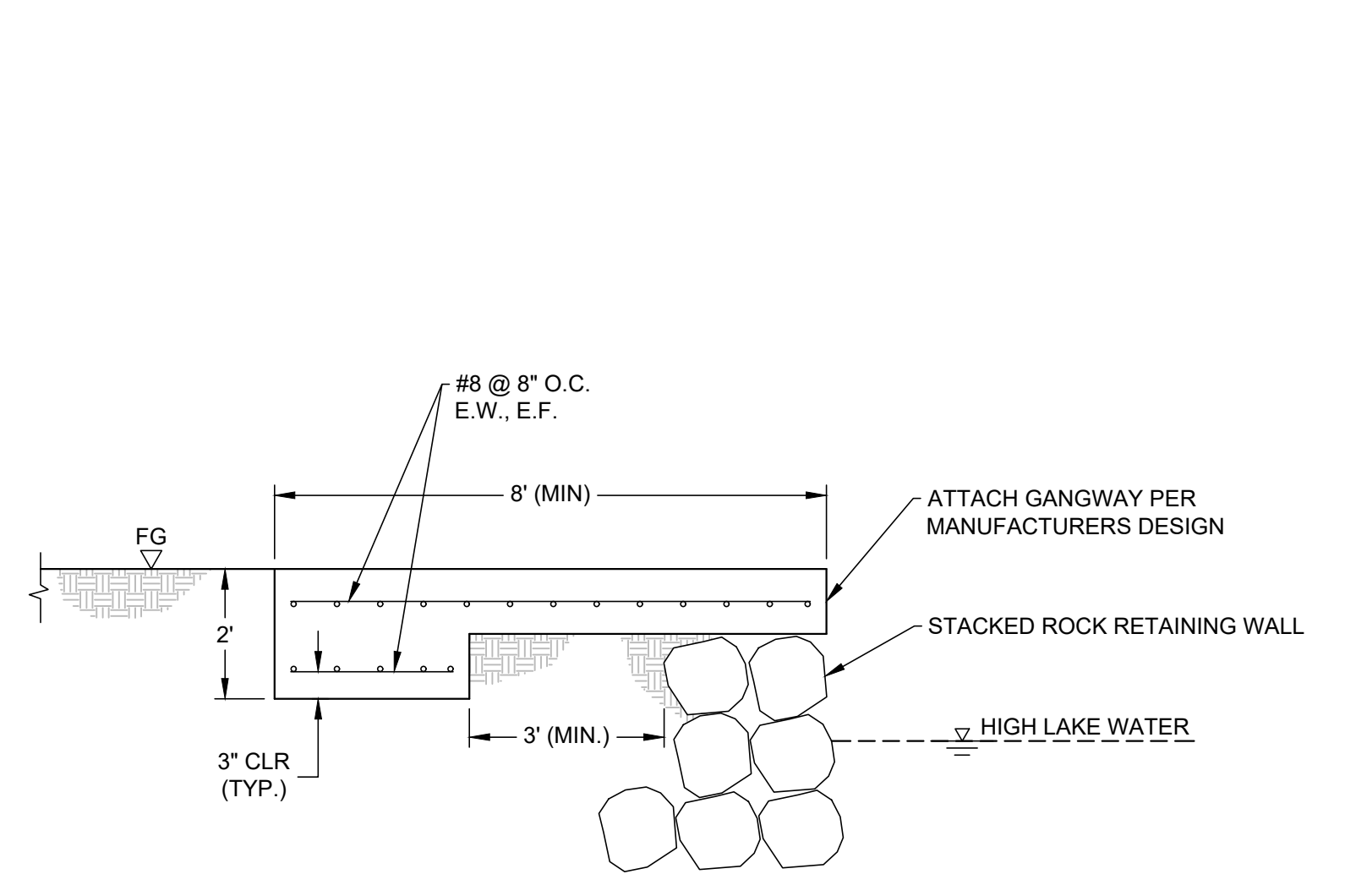


1B STACKED ROCK RETAINING WALL IMPROVEMENTS SCALE: N.T.S.

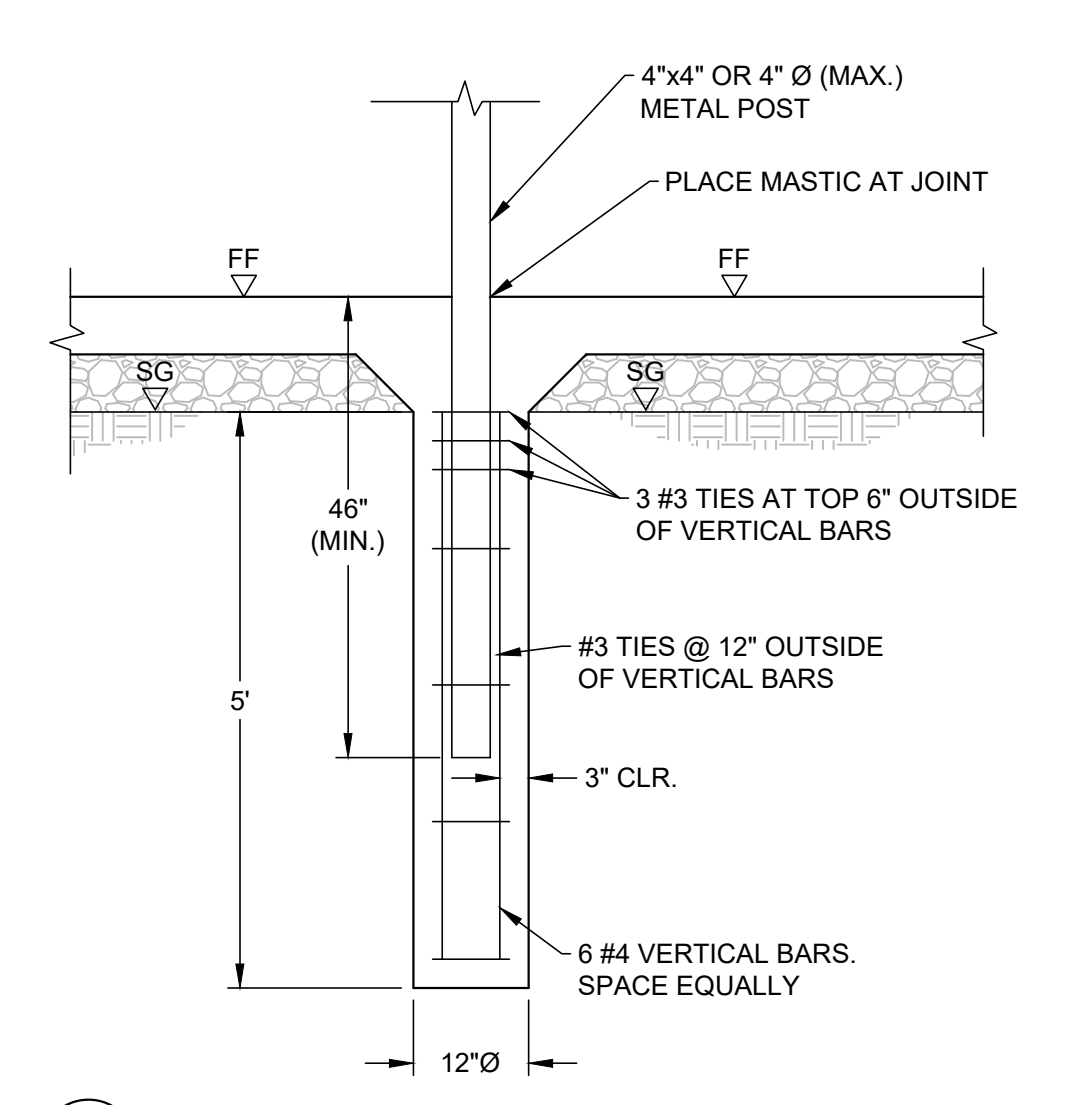
- NOTES**
1. PLACE CONCRETE SLURRY OVER EACH LIFT IMMEDIATELY PRIOR TO PLACING NEXT LIFT.
 2. STRIKE CONCRETE OVER TOP LIFT LEVEL AND PLACE FILTER FABRIC OVER CONCRETE AND BENEATH THICKENED SLABS.
 3. SCD FOR LOCATIONS. USE HANSEN ARCHITECTURAL SYSTEM SERIES 200 FACIA MOUNT OR APPROVED EQUAL.



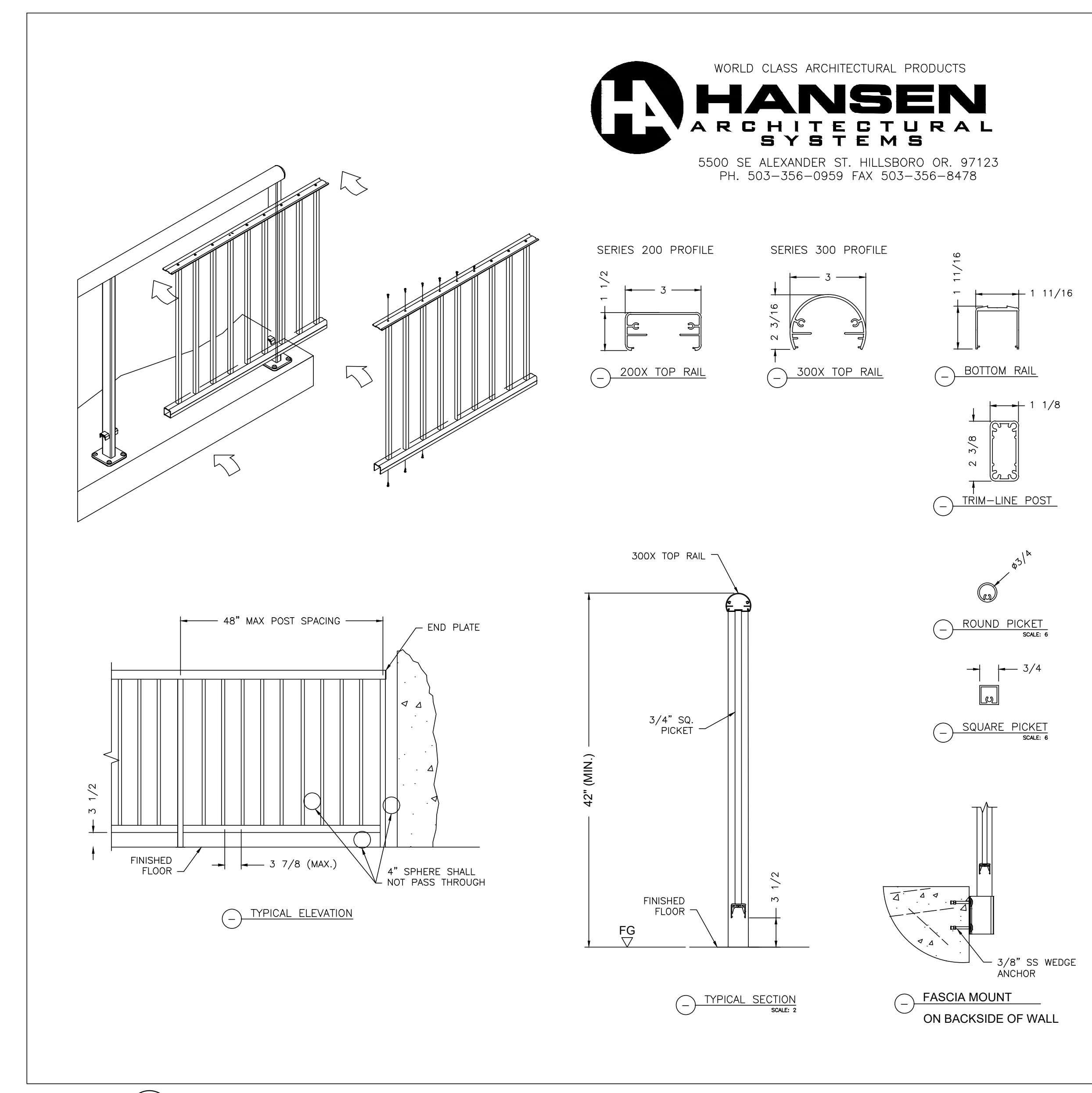
2 NEW STACKED ROCK RETAINING WALL SCALE: N.T.S.



3 PIER AND WATERCRAFT LAUNCH MOORING SCALE: N.T.S.



4 DRILLED PIER FOUNDATION SCALE: N.T.S.



5 PEDESTRIAN GUARDRAIL SCALE: N.T.S.



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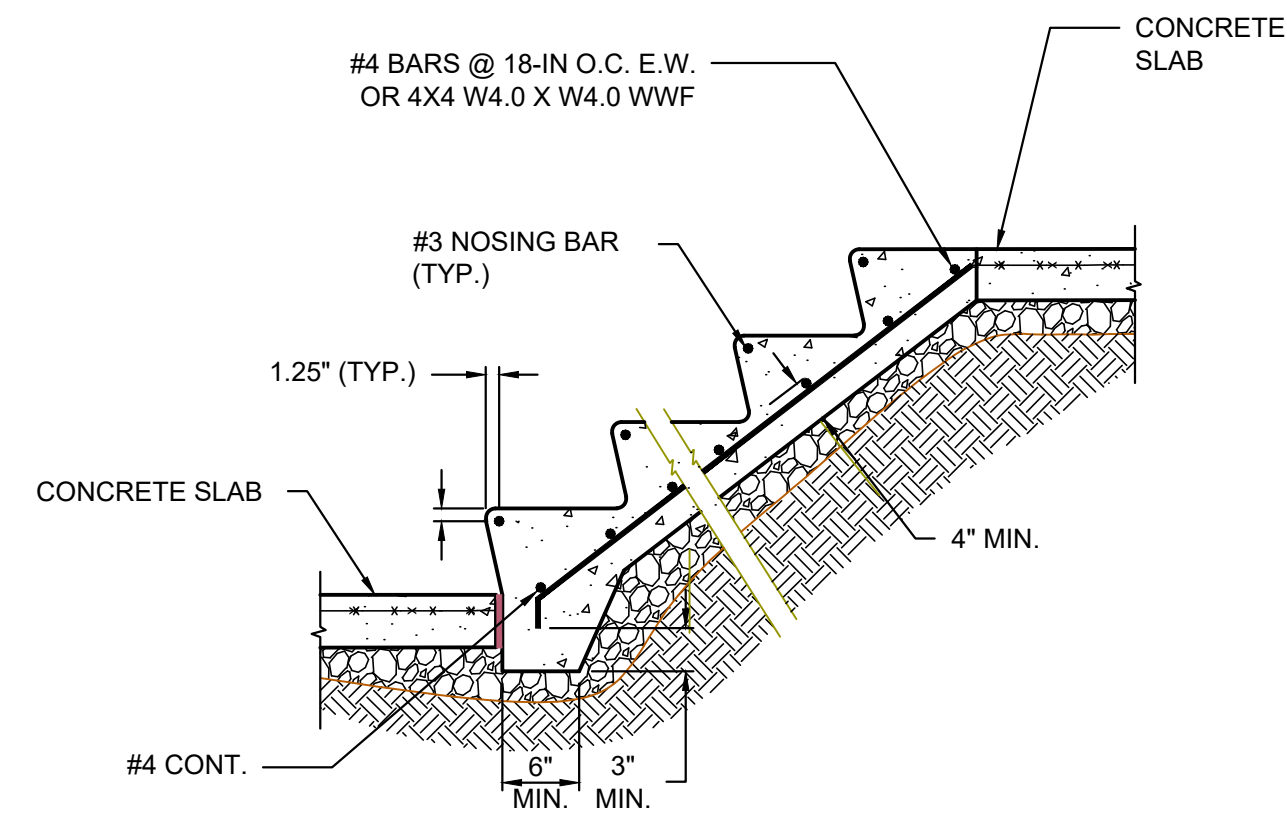
TRI-DAM PROJECT

TULLOCH DAY USE SITE

DETAILS

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1 CONCRETE STAIRS
SECTION SCALE: N.T.S.



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TRI-DAM PROJECT

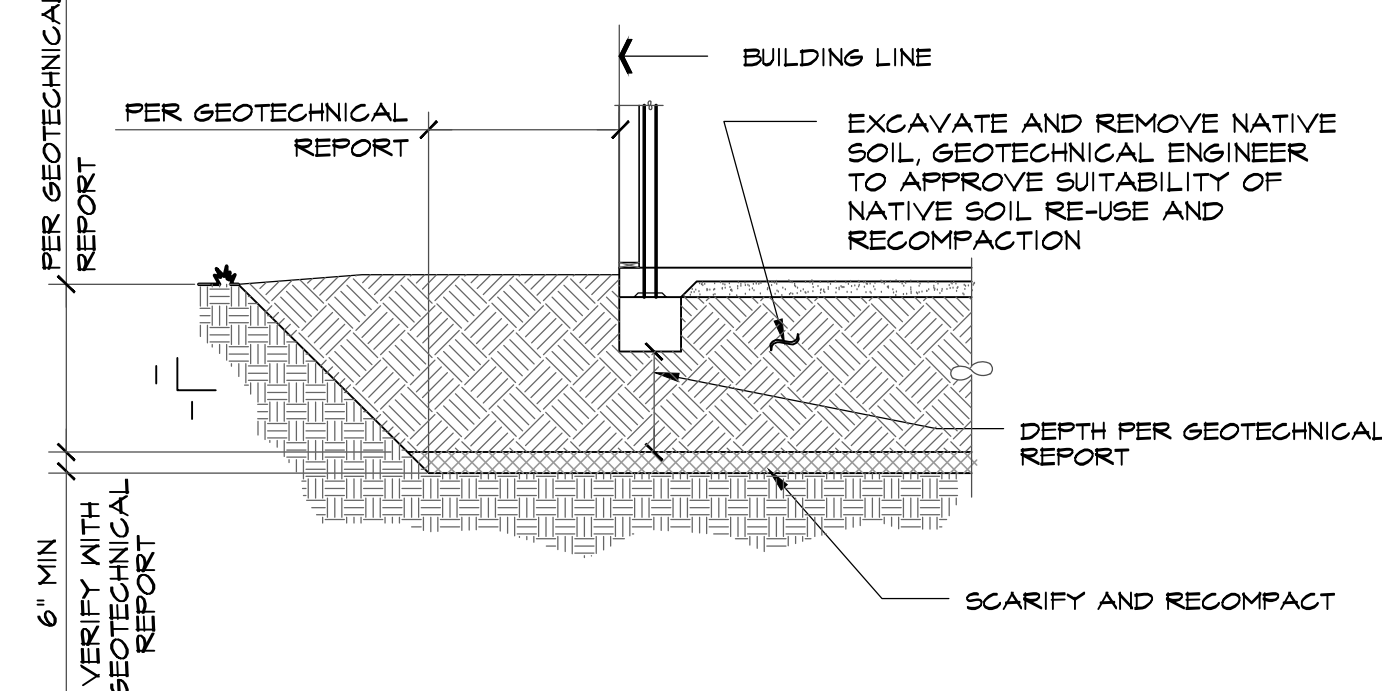
TULLOCH DAY USE SITE

DETAILS

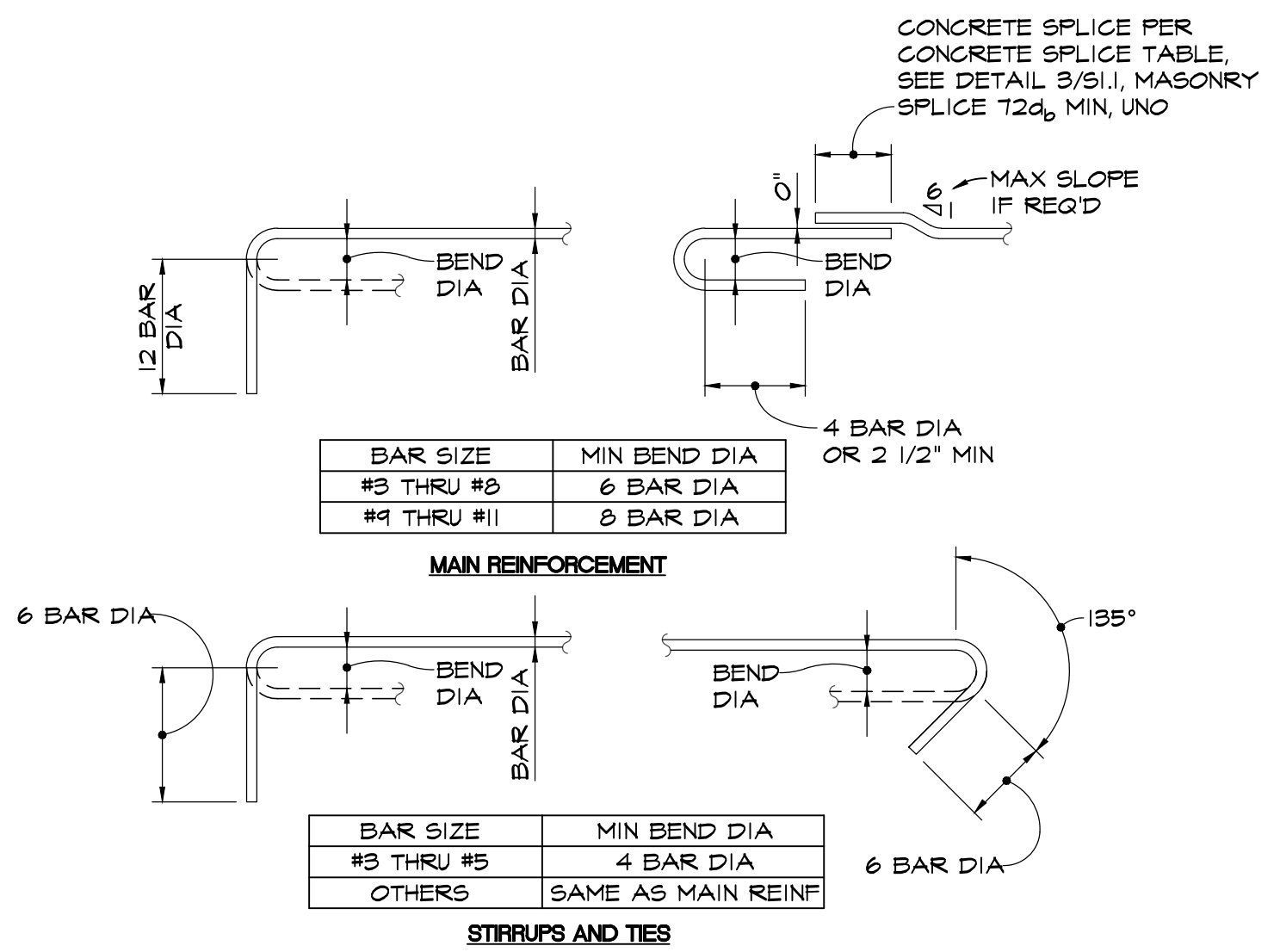
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- NOTES:**
1. REMOVE AND STRIP ALL SURFACE ORGANIC MATERIAL
 2. EXCAVATE AND REMOVE NATIVE SOIL INDICATED, SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS
 3. REVIEW WITH GEOTECHNICAL ENGINEER FOR ANY ADDITIONAL REMOVAL
 4. SCARIFY MOISTURE CONDITION AND RECOMPACT AT BOTTOM OF EXCAVATION IN ACCORDANCE WITH ASTM D1557
 5. RETURN EXCAVATED SOIL W/ ENGINEERED FILL MATERIAL, WITH APPROVAL FROM GEOTECHNICAL ENGINEER, AND RECOMPACT PER GEOTECHNICAL REPORT
 6. DETAIL SIMILAR WHERE EXTERIOR FLATWORK/WALK(S) OCCUR
 7. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS



1 OVEREXCAVATION DETAIL
NTS



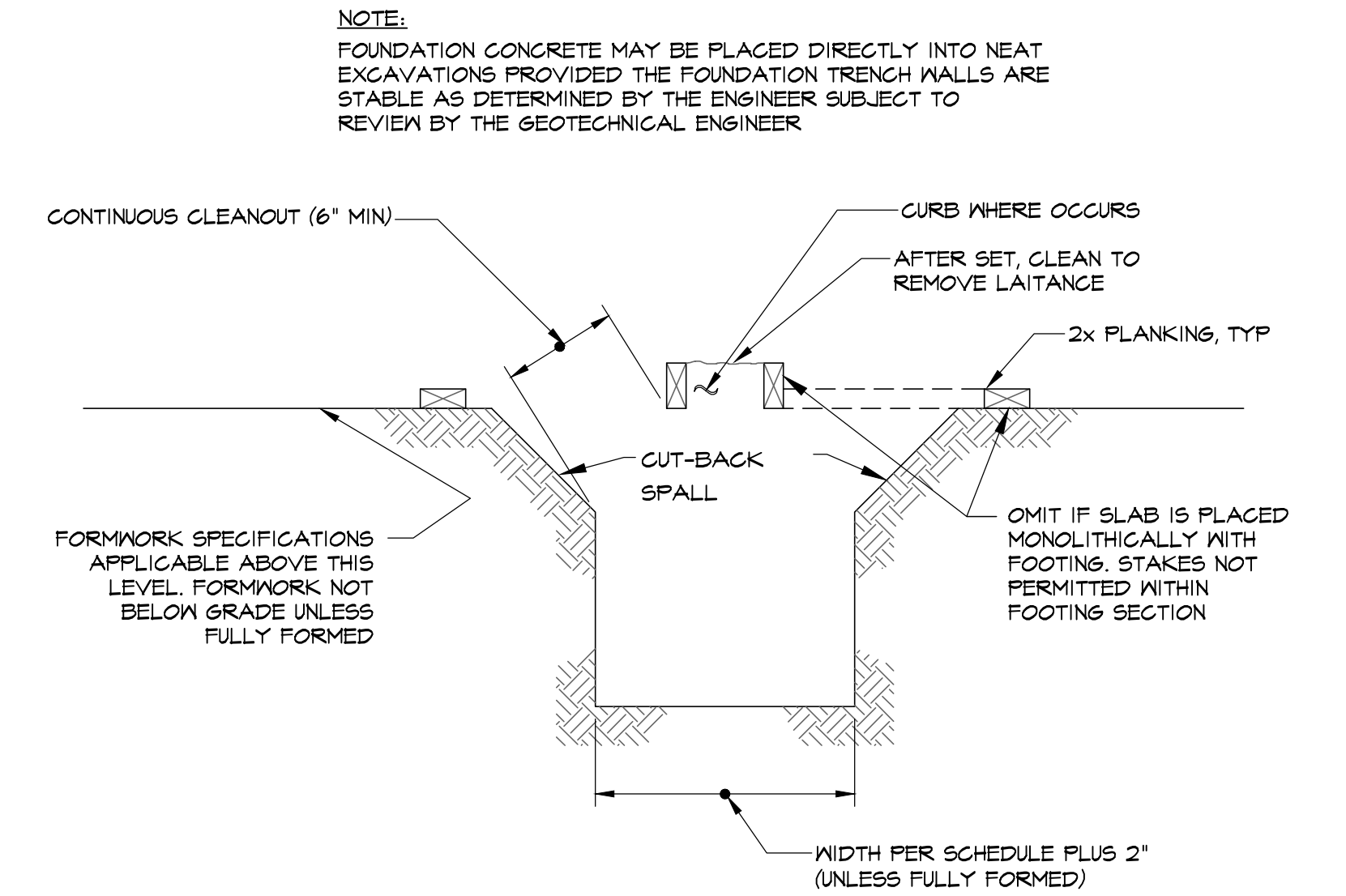
2 TYPICAL BAR BENDS
3/4" = 1'-0"

BAR SIZE	LAP CLASS	$f'_c = 3,000$ psi				$f'_c = 4,000$ psi			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	B	28	42	22	32	24	36	19	28
#4	B	31	46	24	35	27	39	21	31
#5	B	47	70	36	54	40	60	31	47
#6	B	56	84	43	64	48	72	37	56
#7	B	81	122	63	94	70	106	54	81
#8	B	93	139	72	107	80	121	62	93
#9	B	105	157	81	121	91	136	70	105
#10	B	118	177	91	136	102	153	74	118

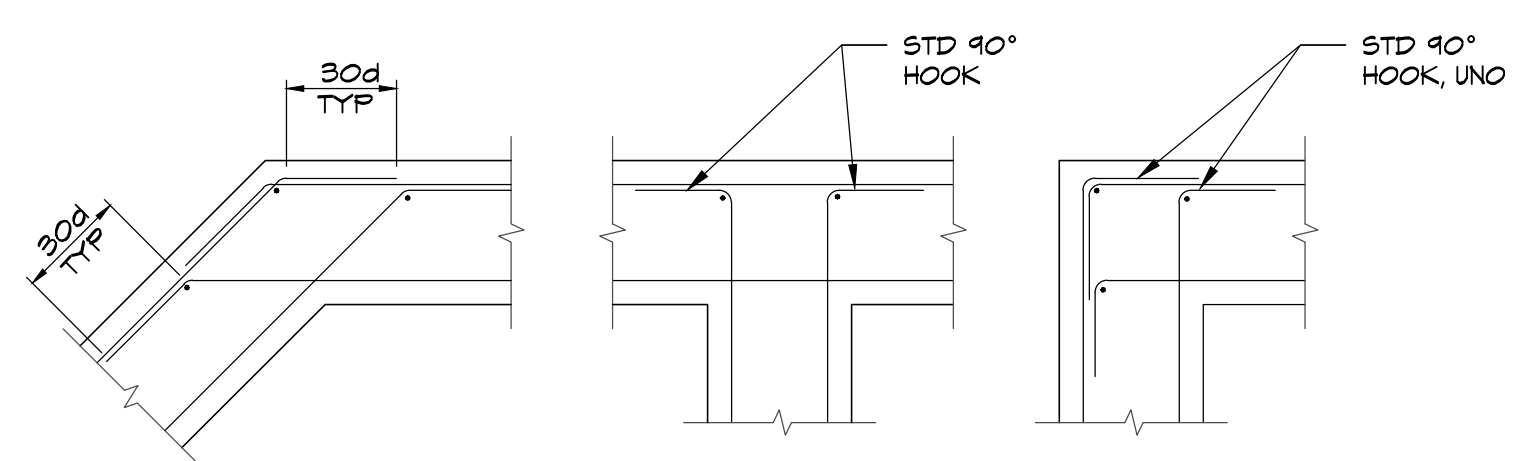
CONCRETE LAP SPLICE LENGTHS

1. ALL LENGTHS ABOVE ARE IN INCHES
2. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:
 BEAMS OR COLUMNS: CASE 1: COVER AT LEAST 1.0 d, AND C-C SPACING AT LEAST 2.0 d. CASE 2: COVER LESS THAN 1.0 d OR C-C SPACING LESS THAN 2.0 d.
 ALL OTHERS: CASE 1: COVER AT LEAST 1.0 d, AND C-C SPACING AT LEAST 3.0 d. CASE 2: COVER LESS THAN 1.0 d OR C-C SPACING LESS THAN 3.0 d.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS
4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY TABULATED VALUES BY 1.3
5. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING:
 CONCRETE COVER AND SPACING: COVER < 3.0 d, OR C-C SPACING < 7.0 d: 1.7/1.3 = 1.31
 COVER > 3.0 d, AND C-C SPACING > 7.0 d: 1.20
 TOP BARS: 1.7/1.3 = 1.31
 OTHER BARS: 1.50
 1.20

3 CONCRETE LAP SPLICE LENGTHS
NTS

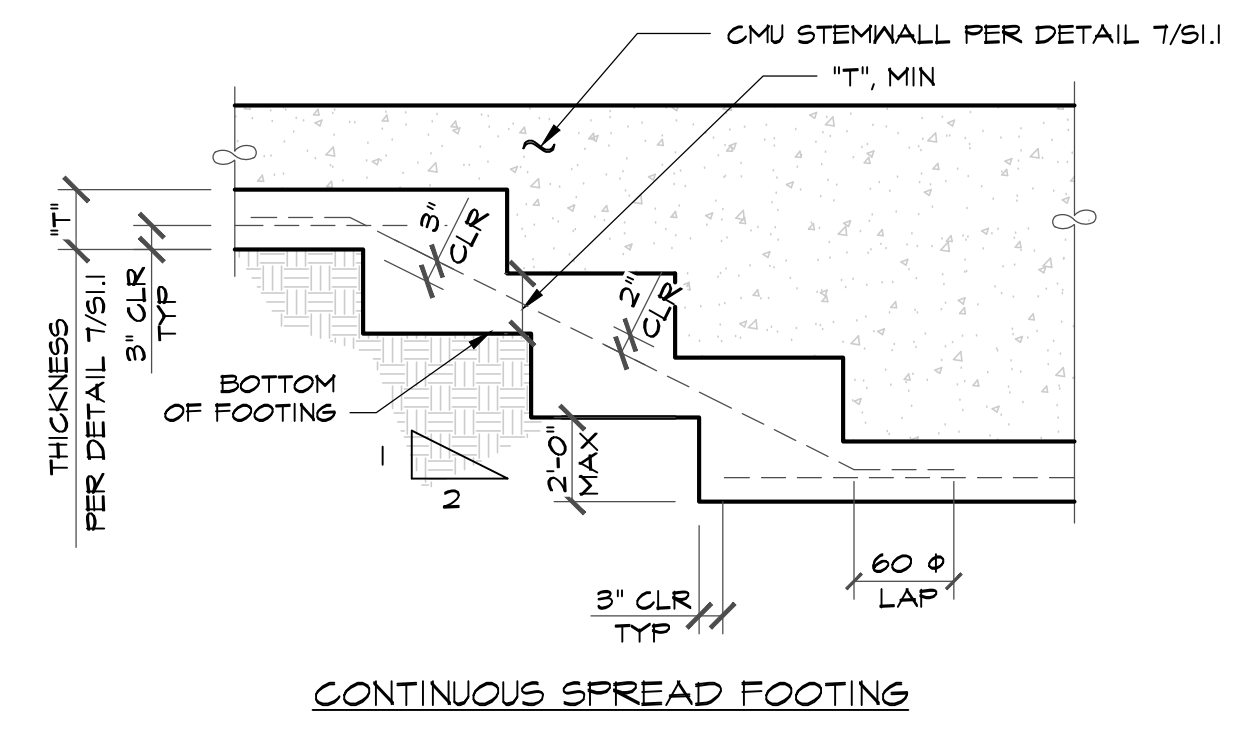


4 FOUNDATION FORMWORK
1" = 1'-0"

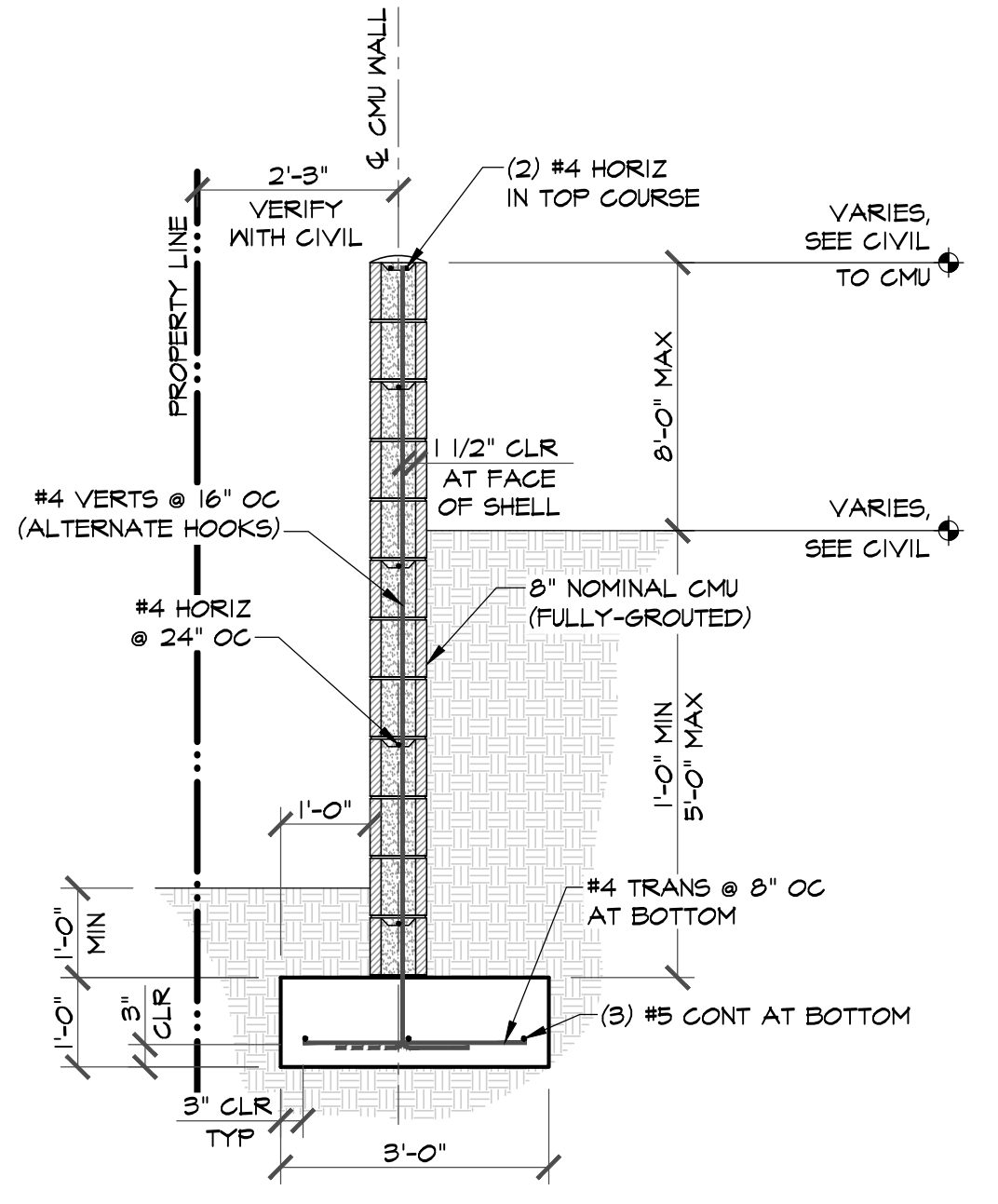


NOTE: VERTICAL REINFORCING NOT SHOWN FOR CLARITY

5 FOOTING WALL INTERSECTION
3/4" = 1'-0"

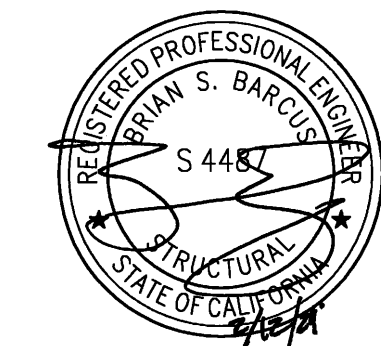


6 STEPPED FOOTING
NTS

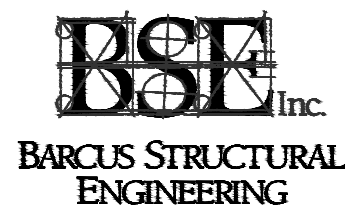


7 CMU SITE WALL
1/2" = 1'-0"

DISCLAIMER: THIS PLAN REPRESENTS FEATURES FOR ILLUSTRATION PURPOSES ONLY. IT IS NOT A LEGAL SURVEY AND IS NOT INTENDED FOR USE IN DETERMINING BOUNDARIES. ANY USE OF THIS PLAN FOR PURPOSES OTHER THAN LOCATION OF FEATURES IS DONE SO AT THE USER'S RISK AND WITHOUT THE CONSENT OF CONDOR EARTH.



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SHEET
S1.1

REV#	DATE	ASK BY	DESCRIPTION
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TRI-DAM PROJECT
TULLOCH DAY USE SITE
FOUNDATION DETAILS

JOB#: 20CTE-07 DRAWN: MRH SCALE: AS SHOWN
PRINTED: 02-12-21 CHECKED: KJN FILE: FOUNDATION DETAILS

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