

WASHINGTON STATE PARKS & RECREATION COMMISSION

LAURIE CONNELLY, CHAIR

SOPHIA DANENBERG HOLLY WILLIAMS

ALI RAAD MICHAEL LATIMER

SCOTT MERRIMAN ALFIE ALVARADO-RAMOS

DIANA DUPUIS, DIRECTOR



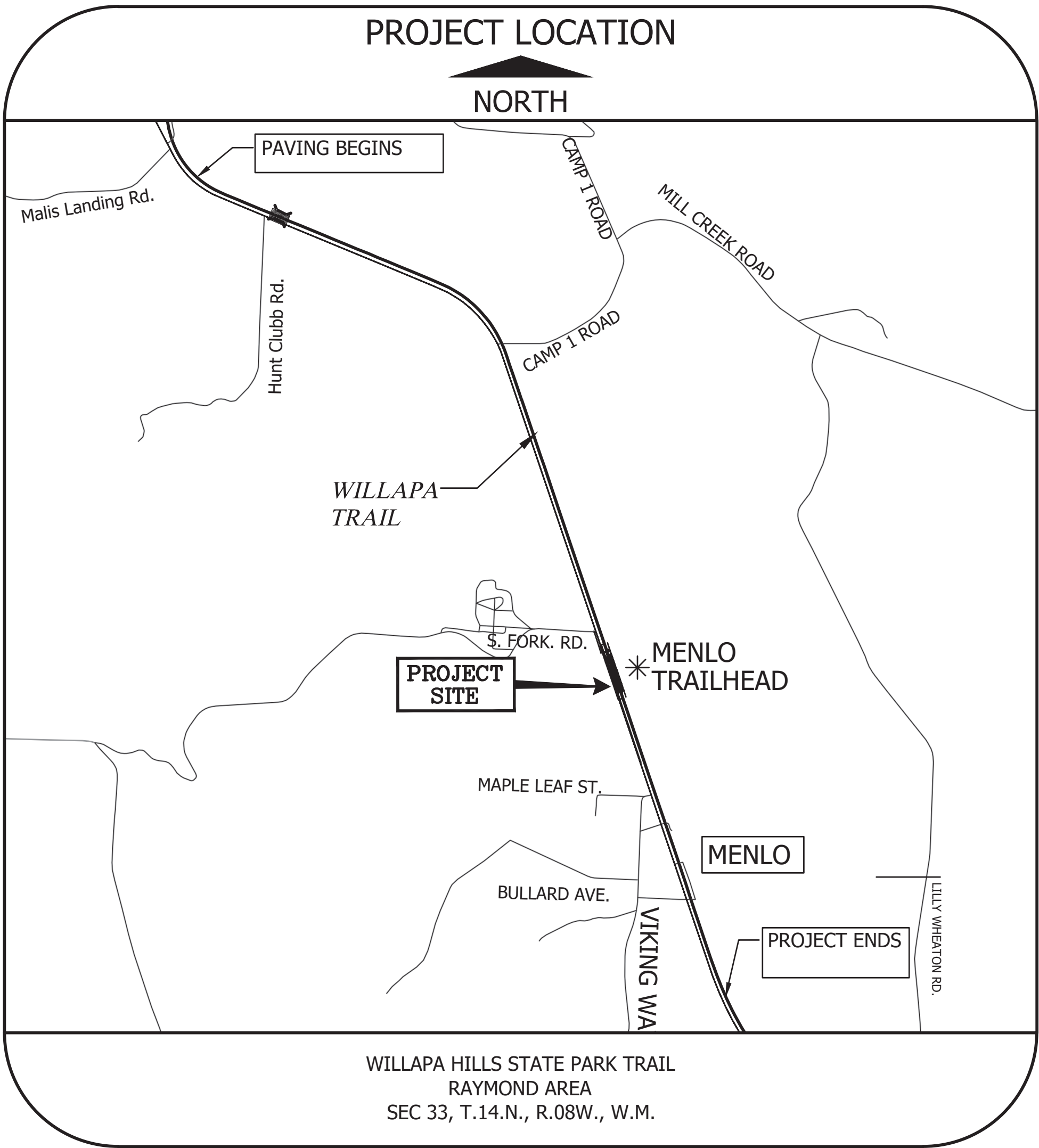
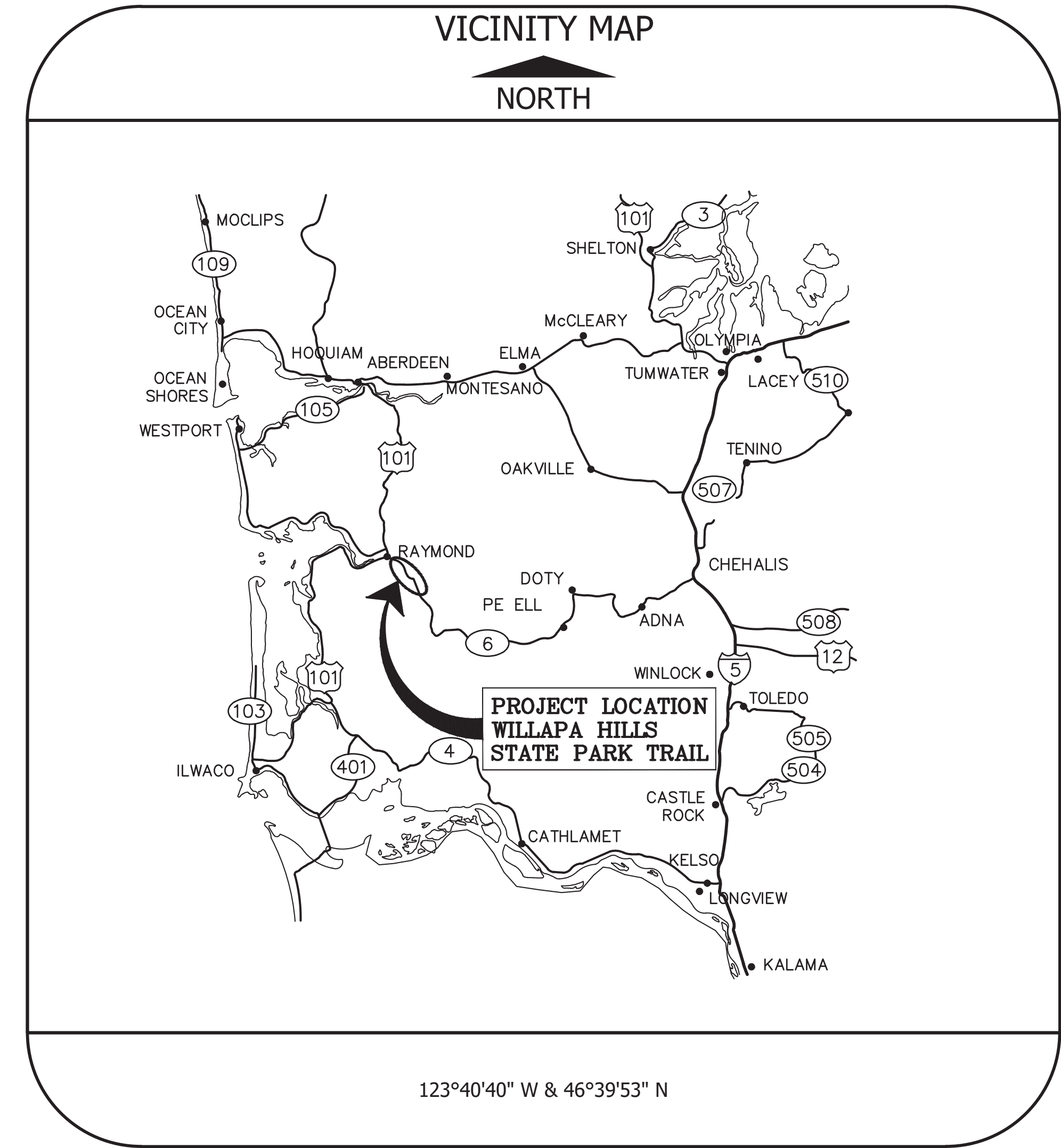
APPROVED FOR CONSTRUCTION

Kevin Goodrik 3/4/2025
REGION MANAGER date

Kyle Murphy 4/9/2025
CAPITAL PROGRAM MANAGER date

Area Manager: JANET HALSTEAD

WILLAPA HILLS STATE PARK MENLO TRAILHEAD



INDEX	
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTE AND EXISTING SITE PLAN
3	PROPOSED LAYOUT PLAN
4	PROPOSED GRADING PLAN
5	LANDSCAPE PLAN
6	MISC. DETAILS
7	PAVEMENT MARKING AND MISC. DETAILS
8-11	KIOSK DETAILS
12	TRAIL RESURFACING
13	REMOVABLE BOLLARD DETAILS
14	STANDARD DETAILS - SILT FENCE
15	STANDARD DETAILS - SIGN POST DETAILS

GENERAL NOTES:

1.

ATTENTION CONTRACTORS: WASHINGTON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE WASHINGTON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN RCW 19.122.030. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE NOTICE OF SCHEDULED COMMENCEMENT OF EXCAVATION TO ALL OWNERS OF UNDERGROUND FACILITIES THROUGH A ONE NUMBER LOCATOR SERVICE. THAT NUMBER IS 1-800-424-5555. YOU MUST OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT 1-800-424-5555. AT LEAST TWO (2) BUSINESS DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE WASHINGTON UTILITY NOTIFICATION CENTER OF THE DATE AND LOCATION OF THE PROPOSED CONSTRUCTION, AND THE TYPE OF WORK TO BE PERFORMED.
2.

ALL EXISTING FACILITIES TO BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
3.

EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTACT UTILITY COMPANIES FOR PREMARKING.
4.

UPON COMPLETION OF CONSTRUCTION OF THE PROJECT, CONTRACTOR SHALL SUBMIT AS-BUILTS TO THE ENGINEER AND WASHINGTON STATE PARKS DEPARTMENT.
5.

CONTRACTOR SHALL RESTORE ALL SURFACES TO MATCH EXISTING AND ADJACENT GRADES UNLESS NOTED OTHERWISE.
6.

CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER WSDOT STANDARDS, CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO WASHINGTON STATE PARKS AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
7.

A PLAN SHOWING THE LOCATION AND SIZE OF STAGING AREAS AND CONSTRUCTION ENTRANCES ASSOCIATED WITH THE PROJECT SHALL BE SUBMITTED BY THE CONTRACTOR TO WASHINGTON STATE PARKS AND THE ENGINEER FOR APPROVAL.

SITE ACESS NOTES:

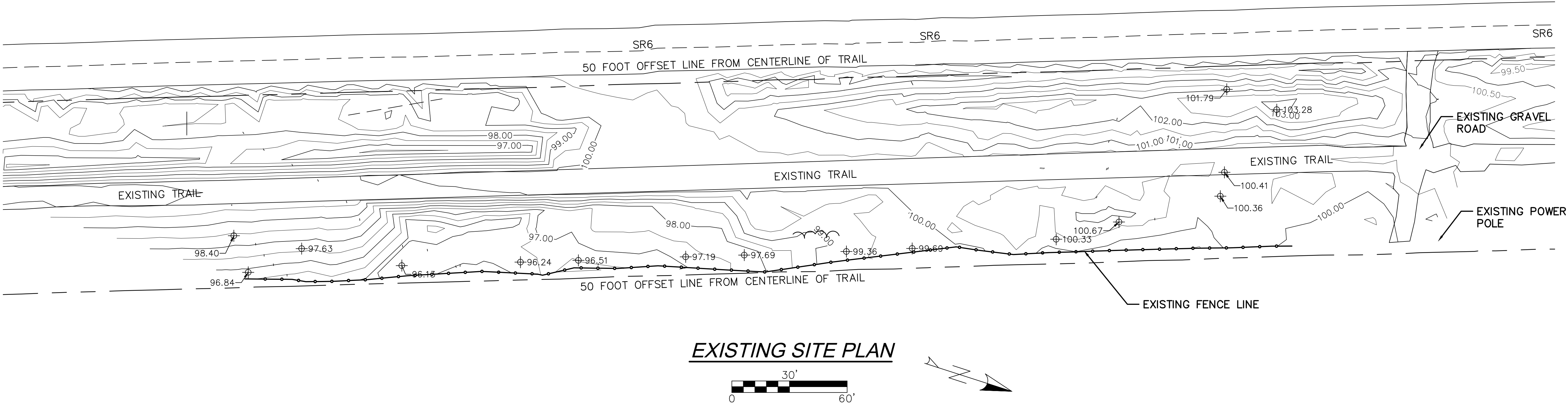
1.

KEY FOR LOCKED BOLLARDS ON TRAIL SHALL BE PROVIDED TO CONTRACTOR BY OWNER.
2.

CONTRACTOR TO PROVIDE METHOD FOR A TIRE WASH AND ALL VEHICLES LEAVING THE SITE SHALL WASH SEDIMENT FROM THEIR TIRES.
3.

AFTER CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL RESTORE ALL DISTURBED TRAIL TO EXISTING CONDITIONS.
4.

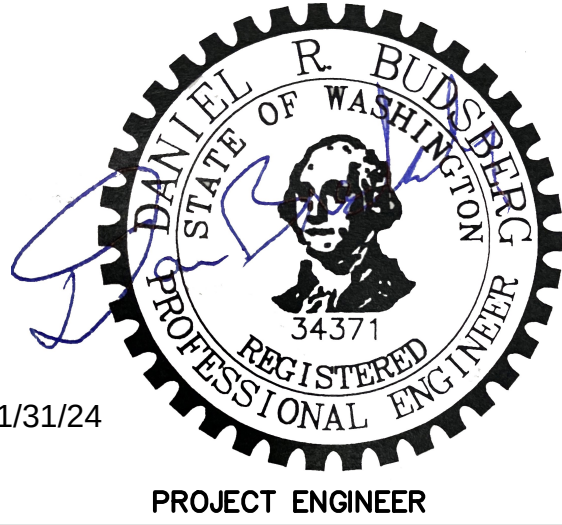
ALL SIGNS, GATES, AND BOLLARDS AT THE SITE ACCESS POINTS ARE TO BE PROTECTED FROM DAMAGE OR REMOVED AND REPLACED BY THE CONTRACTOR.



CAD NO.W500–SW10–2023–MASTER

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ACTION	BY	DATE
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WASHINGTON
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WILLAPA HILLS
STATE PARK
TRAIL

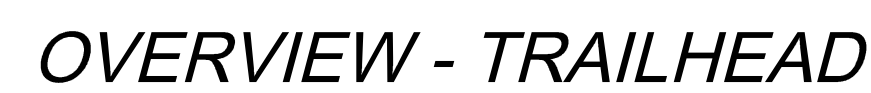
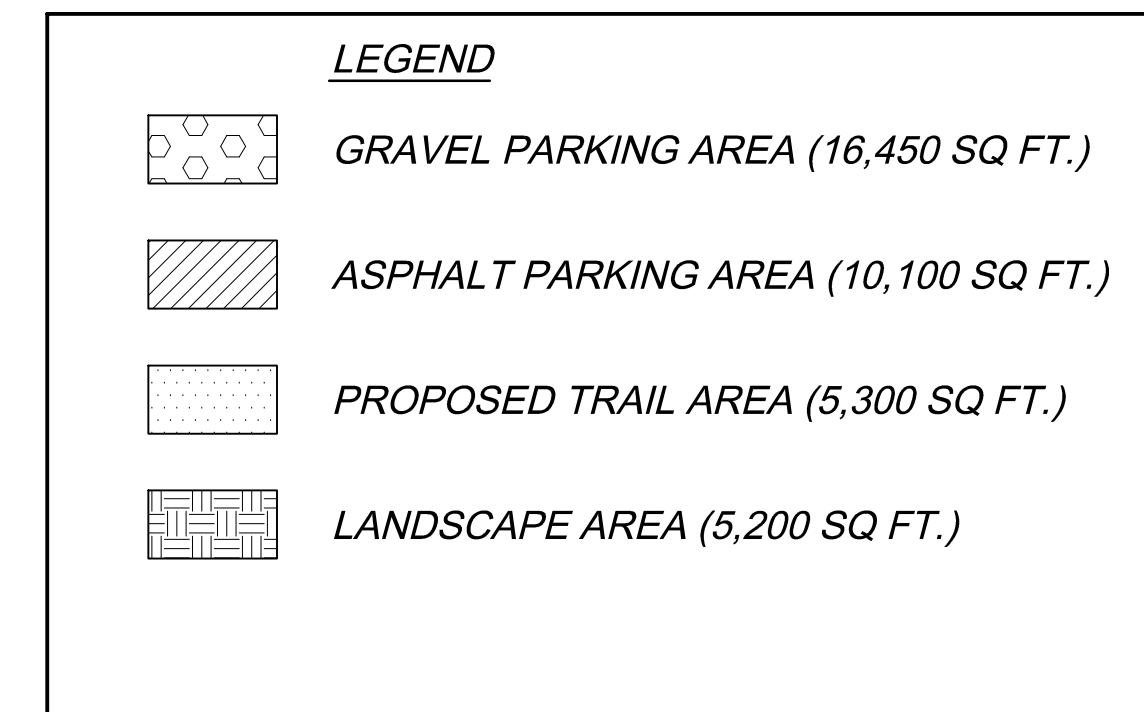
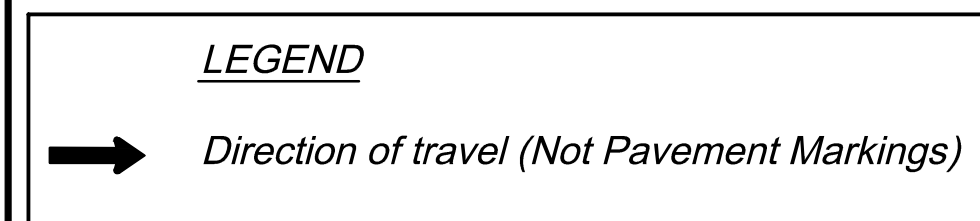
MENLO
TRAILHEAD

EXISTING SITE
PLAN

SCALE
AS SHOWN

PARKS FILE#

1. REFER TO OVERVIEW PLAN FOR SQUARE FOOTAGE OF PAVED AND UNPAVED AREA.
2. LAYOUT PLAN SHOWS OUTLINE OF PARKING LOTS, NOT PAVEMENT MARKINGS.
FOR PAVEMENT MARKINGS SEE SHEET 6.
3. CONTRACTOR SHOULD KEEP EXISTING FENCES IN PLACE.



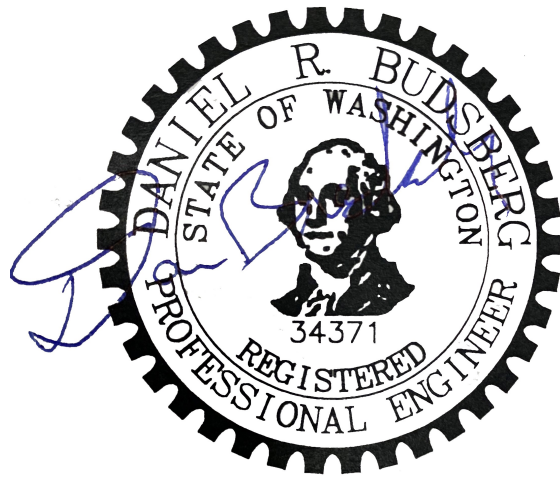
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LAYOUT PLAN

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1/31/24
PROJECT ENGINEER

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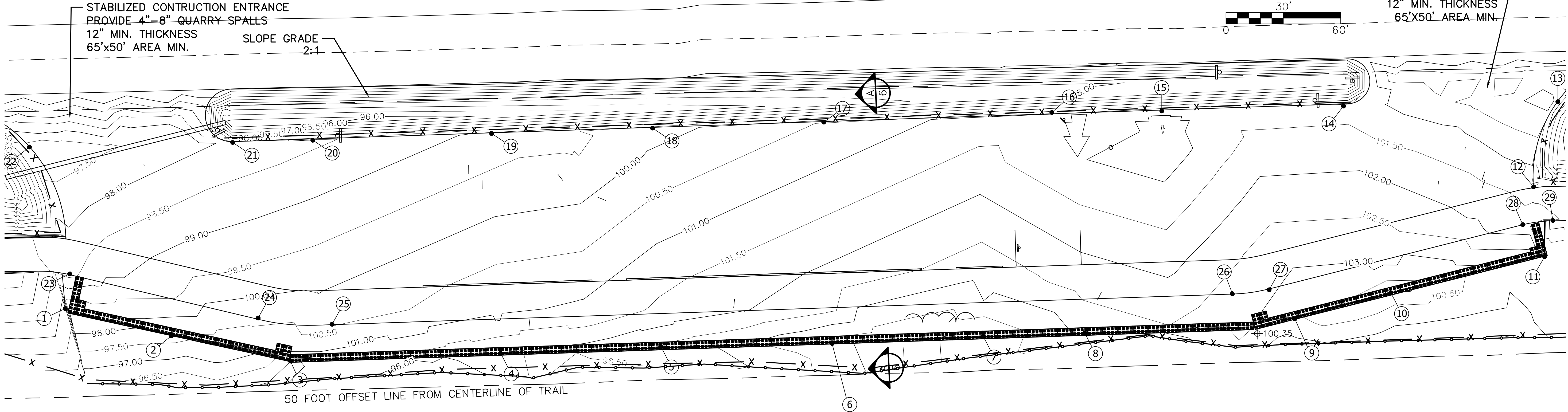
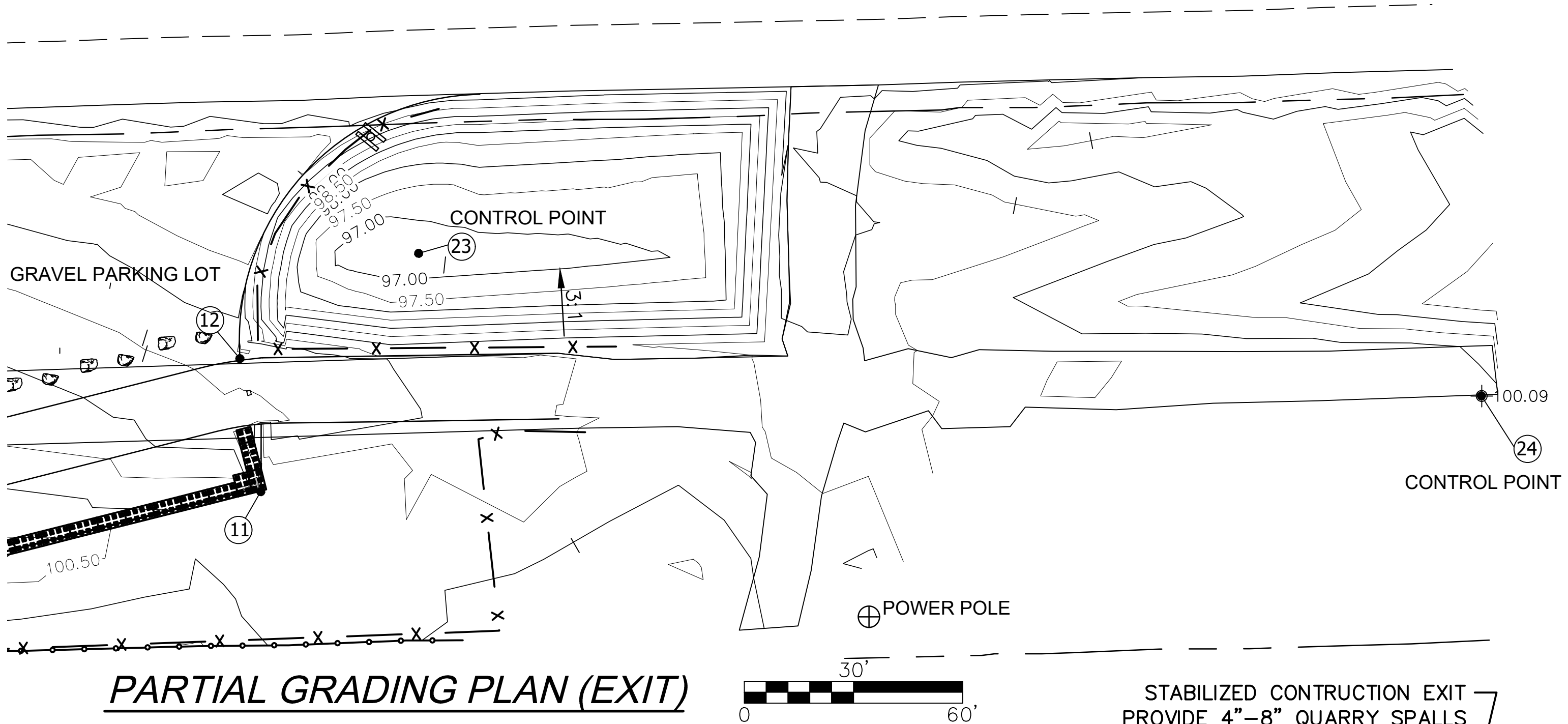
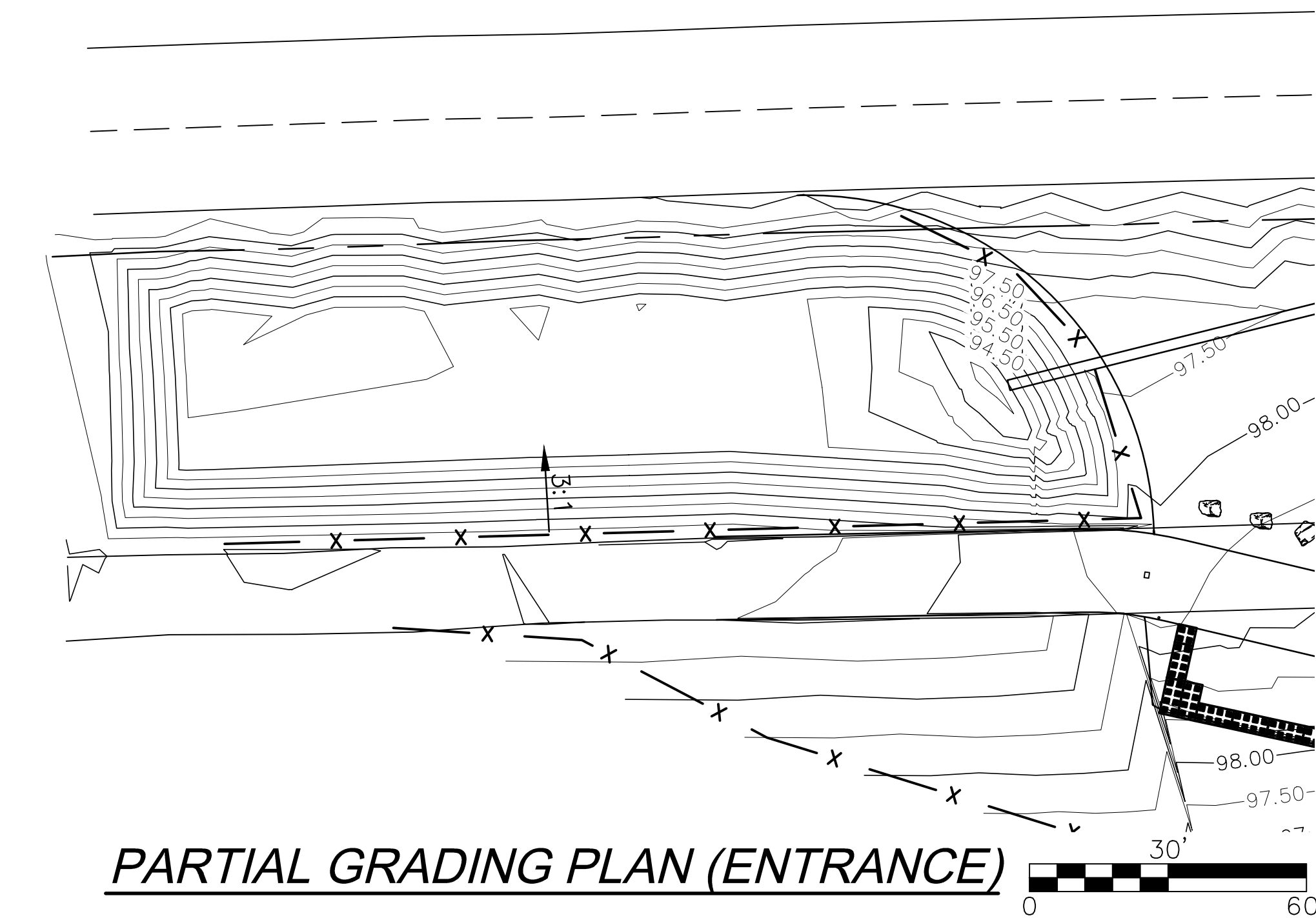
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STATE PARK
TRAIL

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GRADING PLAN

SCALE
AS SHOWN

PARKS FILE#

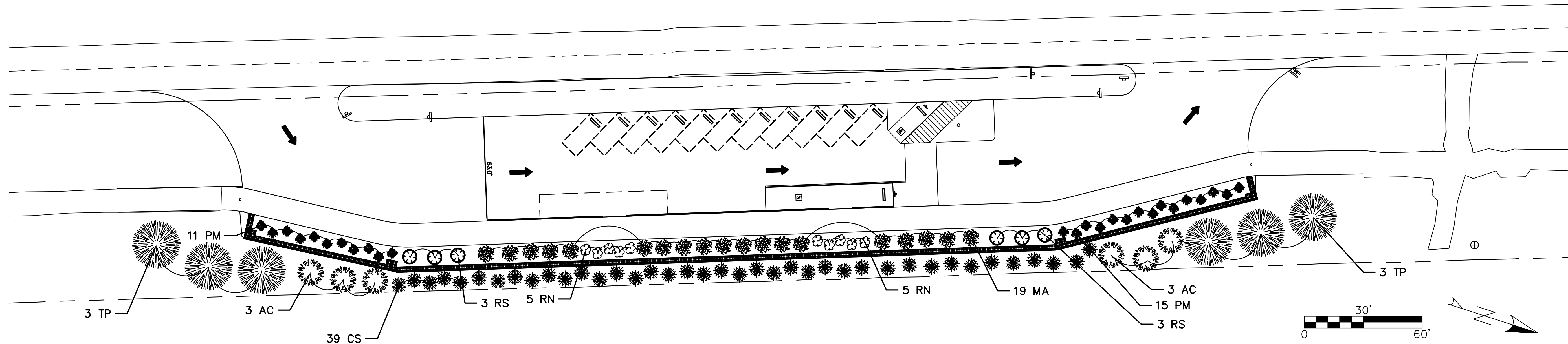


COORDINATE TABLE												
LOCATION	NORTHING	EASTING	PP ELEV	WALL HEIGHT	LOCATION	NORTHING	EASTING	PP ELEV	LOCATION	NORTHING	EASTING	PP ELEV
①	4976.3	4994.3	99.8	1.4	⑪	4994.2	5509.8	102.7	㉑	5034.5	5052.4	98.5
②	4966.9	5032.2	100.4	2.8	⑫	5018.4	5506.0	101.4	㉒	5031.6	4982.9	97.6
③	4957.9	5072.2	101.0	4.7	⑬	5048.2	5514.9	100.4	POWER P.	4971.3	5621.1	
④	4960.2	5145.5	102.0	5.8	⑭	5047.5	5439.4	101.3	㉓	5038.0	5538.9	N/A
⑤	4962.5	5201.7	102.6	5.8	⑮	5045.0	5376.5	101.3	㉔	5011.8	5733.4	N/A
⑥	4964.4	5261.6	103.6	5.9	⑯	5044.3	5337.6	101.2				
⑦	4966.5	5314.3	104.1	4.7	⑰	5041.6	5258.5	100.5				
⑧	4967.8	5349.5	102.8	3.1	⑱	5039.1	5199.2	99.8				
⑨	4969.5	5408.6	102.8	1.4	⑲	5036.8	5143.1	99.1				
⑩	4981.7	5456.5	103.9	3.2	㉐	5035.1	5080.1	98.4				

LEGEND	
	EXISTING FENCE
	PROPOSED SILT FENCE

- NOTES:**
- STATE PARKS WILL PROVIDE TWO CONTROL POINTS FOR THE CONTRACTOR TO USE FOR ALL SURVEY WORK. ALL POINT NORTHINGS, EASTINGS, AND ELEVATIONS ARE BASED ON AN ASSUMED DATUM.
 - ELEVATION REFER TO THE TOP OF WALL FOR LOCATIONS ① TO ⑪ .
 - PLACE A SEPARATION GEOTEXTILE UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET WSDOT STANDARD SPECIFICATION 9-33.(2) TABLE 3 GEOTEXTILE FOR SEPARATION OR SOIL STABILIZATION.

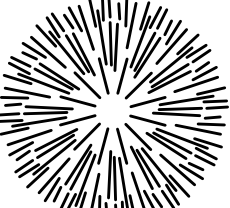
LANDSCAPE PLAN



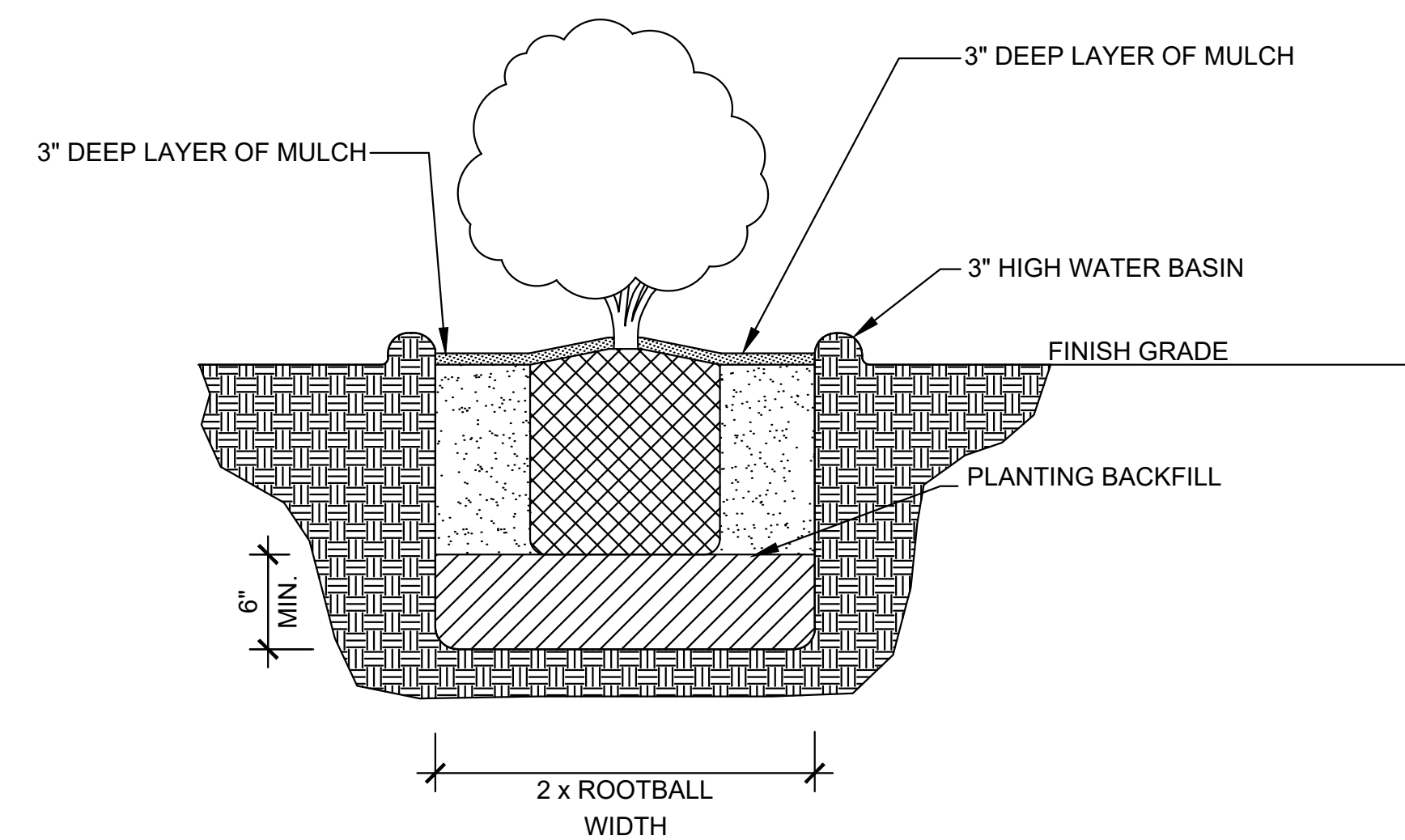
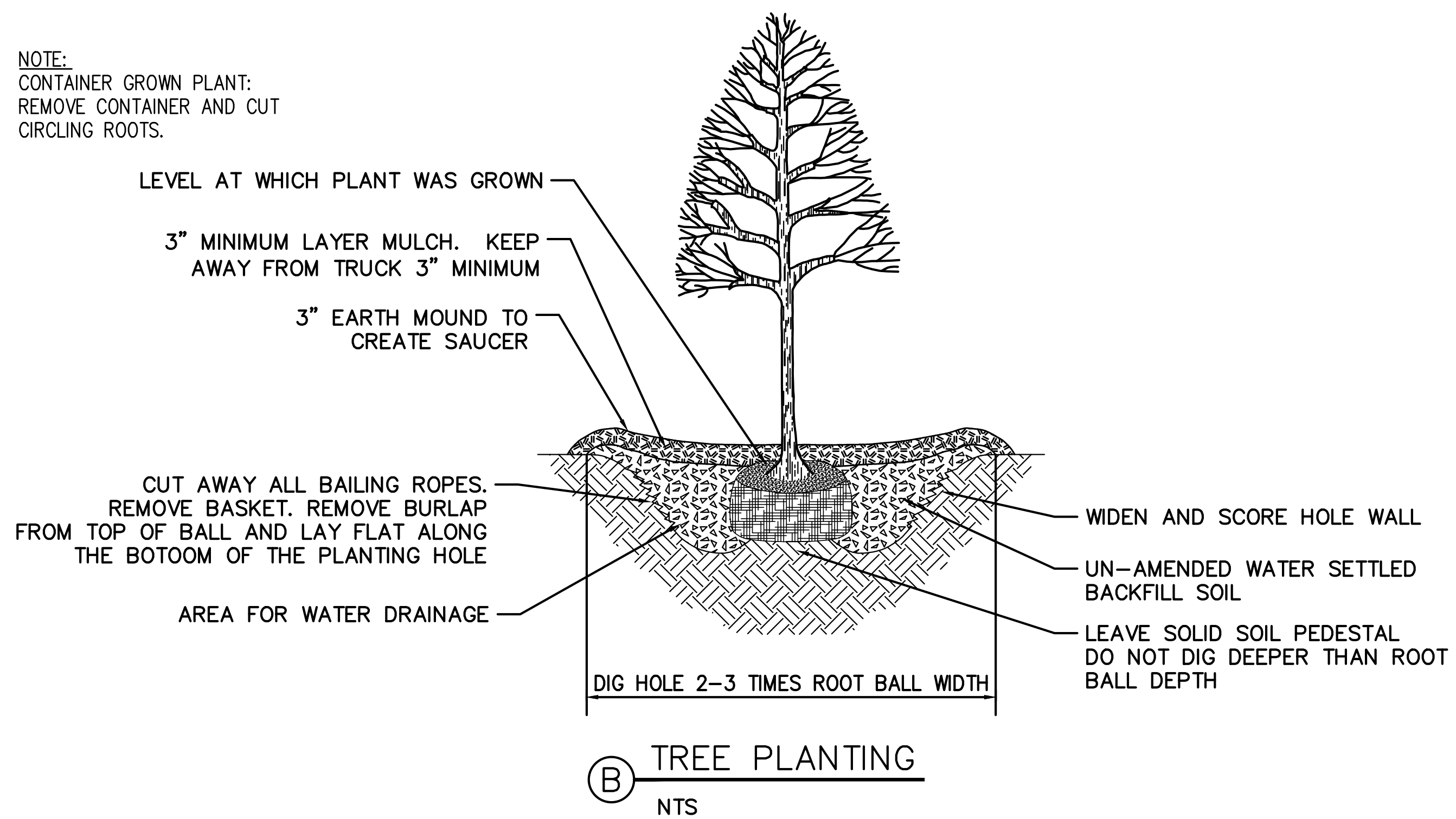
LANDSCAPE NOTES:

- | | |
|----|--|
| 1. | CONTRACTOR SHOULD SCALE DRAWING FOR DETERMINING PLANT SPACING |
| 2. | ANY PLANT SUBSTITUTIONS MUST BE APPROVED BY STATE PARKS PRIOR TO INSTALLATION. |
| 3. | ALL LANDSCAPE MATERIALS SHALL CONFORM TO AMERICAN STANDARD FOR NURSERY STOCK STANDARDS (ANSI Z60.1). |
| 4. | TWINE, STRAPPING, AND BASKETS ARE TO BE REMOVED FROM ALL PLANT MATERIALS AS MUCH AS POSSIBLE FROM NO LESS THAN HALF THE ROOT BALL. |
| 5. | TREE ROOT BALLS SHALL BE PLANTED WITH VISIBLE ROOT FLARE. |
| 6. | STAKES AND STRAPPING MUST BE REMOVED WITHIN THE FIRST YEAR FOLLOWING PLANTING TO TO ELIMINATE GIRDLING. |
| 7. | 3" OF LARGE CHUCK BARK TO SPREAD THROUGHOUT PLANTING AREAS. |

PLANT SCHEDULE

		QTY.
	AC <i>Acer circinatum</i> – Vine Maple #5	6
	CS <i>Cornus sericea</i> – Redoiser Dogwood 18" Stakes	39
	MA <i>Mahonia aquifolium</i> – Tall Oregon Grape #1	19
	PM <i>Polystichum munitum</i> – Western Sword Fern #1	26
	RS <i>Ribes sanguineum</i> – Red Flowering Currant #1	6
	RN <i>Rosa nutkana</i> – Nutka Rose 6"	10
	TP <i>Thuja plicata</i> – Western Red Cedar #10	6

NOTE:
CONTAINER GROWN PLANT:
REMOVE CONTAINER AND CUT
CIRCLING ROOTS.



© SHRUB PLANTING
NTS

SHEET 5 OF 15

			DATE
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1/31/2024

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LANDSCAPE PLAN

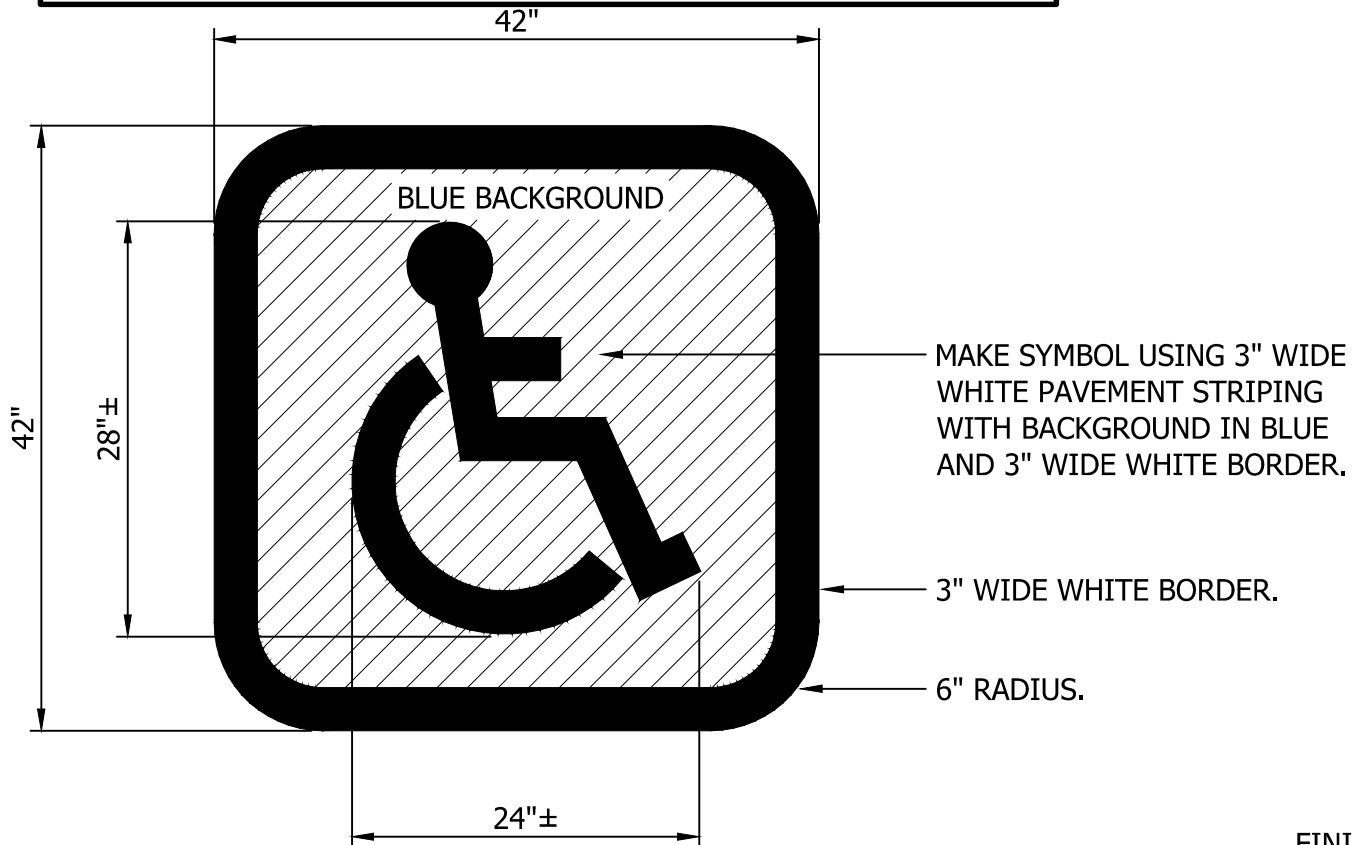
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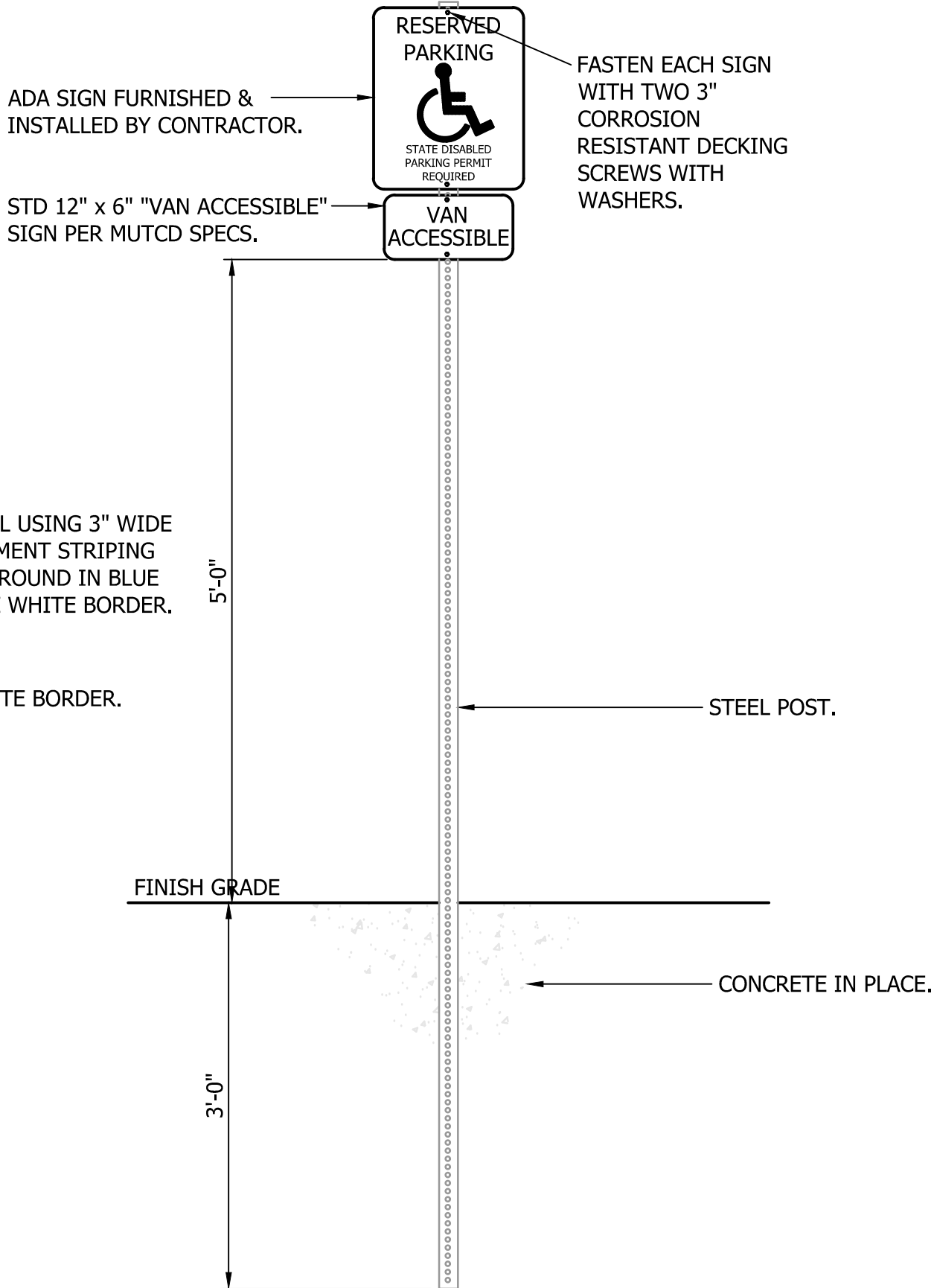
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GENERAL SHEET NOTE:

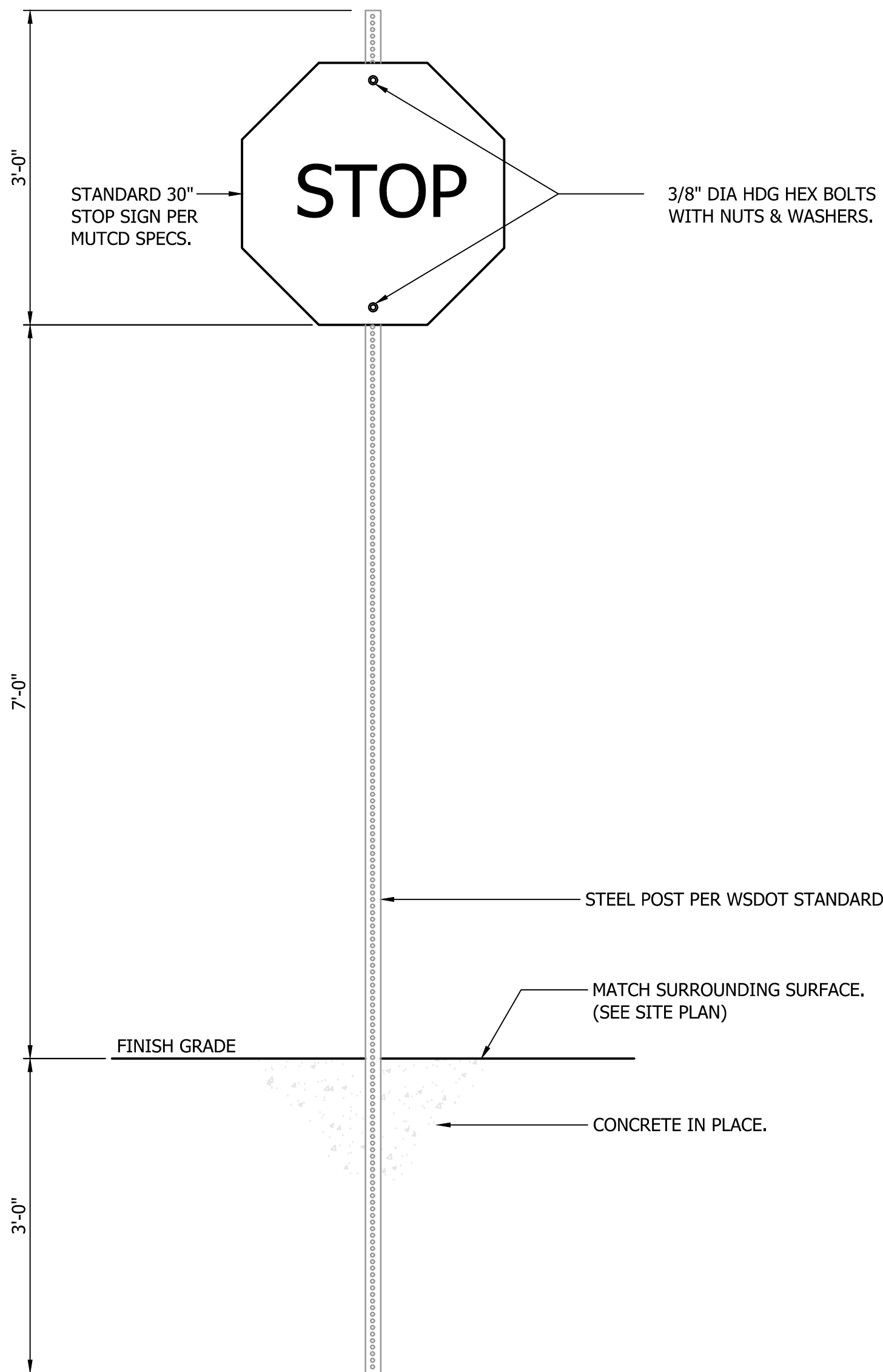
1. PROVIDE ALL MATERIALS AND LABOR FOR ALL DETAILS
2. ALL SIGN POSTS SHALL FOLLOW WSDOT STANDARD. REFER TO SHEET 15 FOR DETAILS. IN THE EVENT OF CONFLICTS AND INCONSISTENCY, DETAILS IN SHEET 15 SHALL GOVERN.



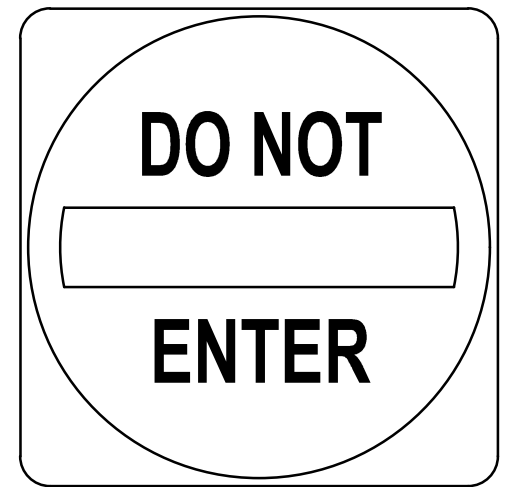
ADA SYMBOL DETAIL



ADA PARKING SIGN DETAIL



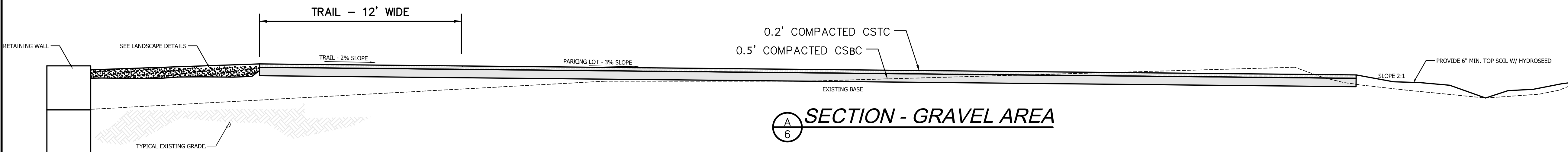
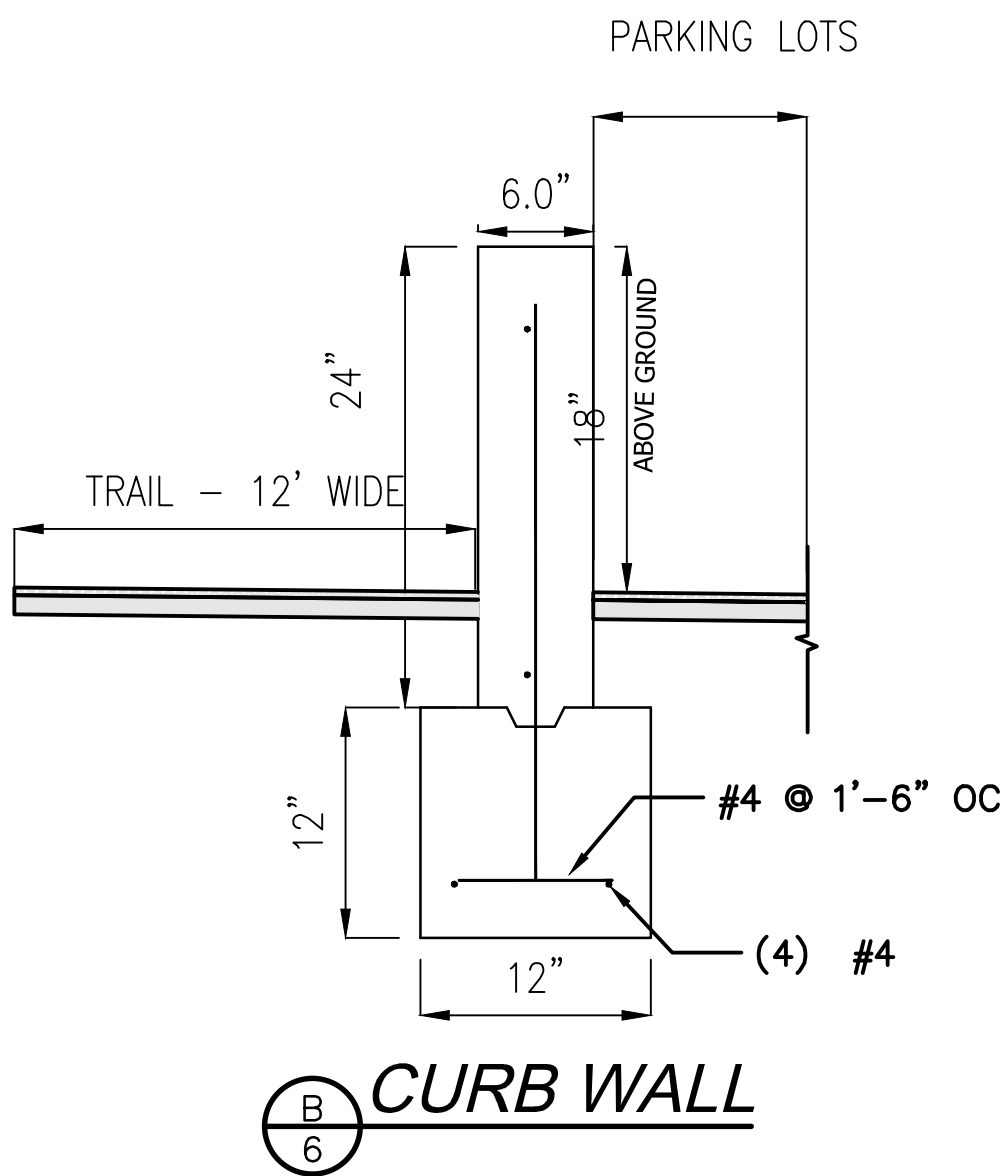
STOP SIGN DETAIL



R5-1

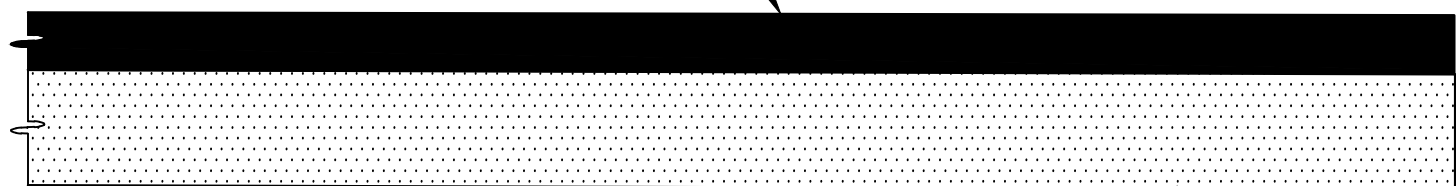


R5-1a



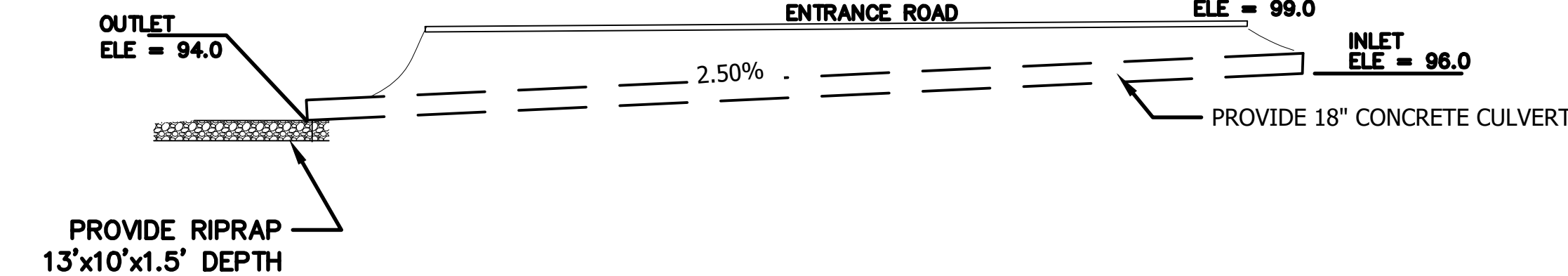
SECTION - GRAVEL AREA

3" CLASS 0.2' HMA.



6" THICK COMPACTED CSBC/CSTC BASE UNDER HMA AND SHOULDER.

TYPICAL HMA SECTION

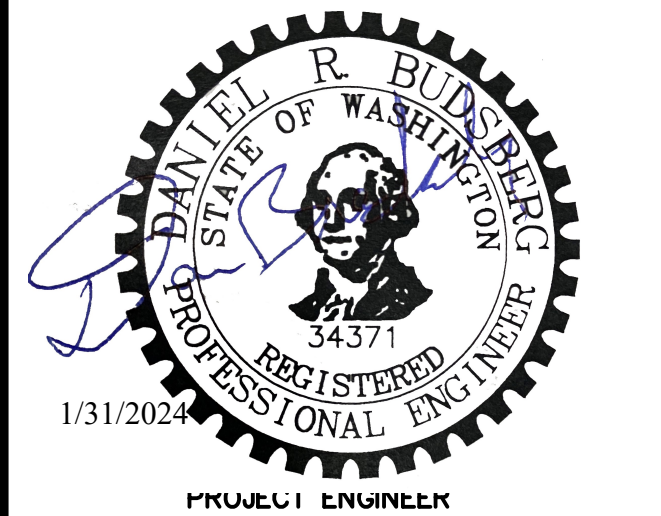


- CONSTRUCTION NOTE:
1. PREPARE THE SUBGRADE FOR THE RIPRAP AND MAN ROCK TO THE REQUIRED ELEVATION AND GRADES. ANY FILL REQUIRED IS COMPACTED TO A DENSITY APPROXIMATING THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
 2. NONWOVEN GEOTEXTILE FILTER FABRIC SHOULD BE PROVIDED.
 3. KEY IN THE FILTER AT THE TOP OF THE MAN ROCK EDGE AND EXTEND THE FABRIC INTO THE TOE TRENCH.
 4. PLACE RIPRAP IMMEDIATELY FOLLOWING FILTER FABRIC PLACEMENT. INSTALL RIPRAP SO THAT IT PRODUCES A DENSE WELL-GRADED MASS OF STONE WITH A MINIMUM OF Voids AND TO ITS FULL THICKNESS IN ONE OPERATION. TO AVOID DAMAGING FABRIC, DO NOT DROP STONE FROM MORE THAN TWO FEET ABOVE FABRIC.

CAD NO.W500-SW10-2023-MASTER

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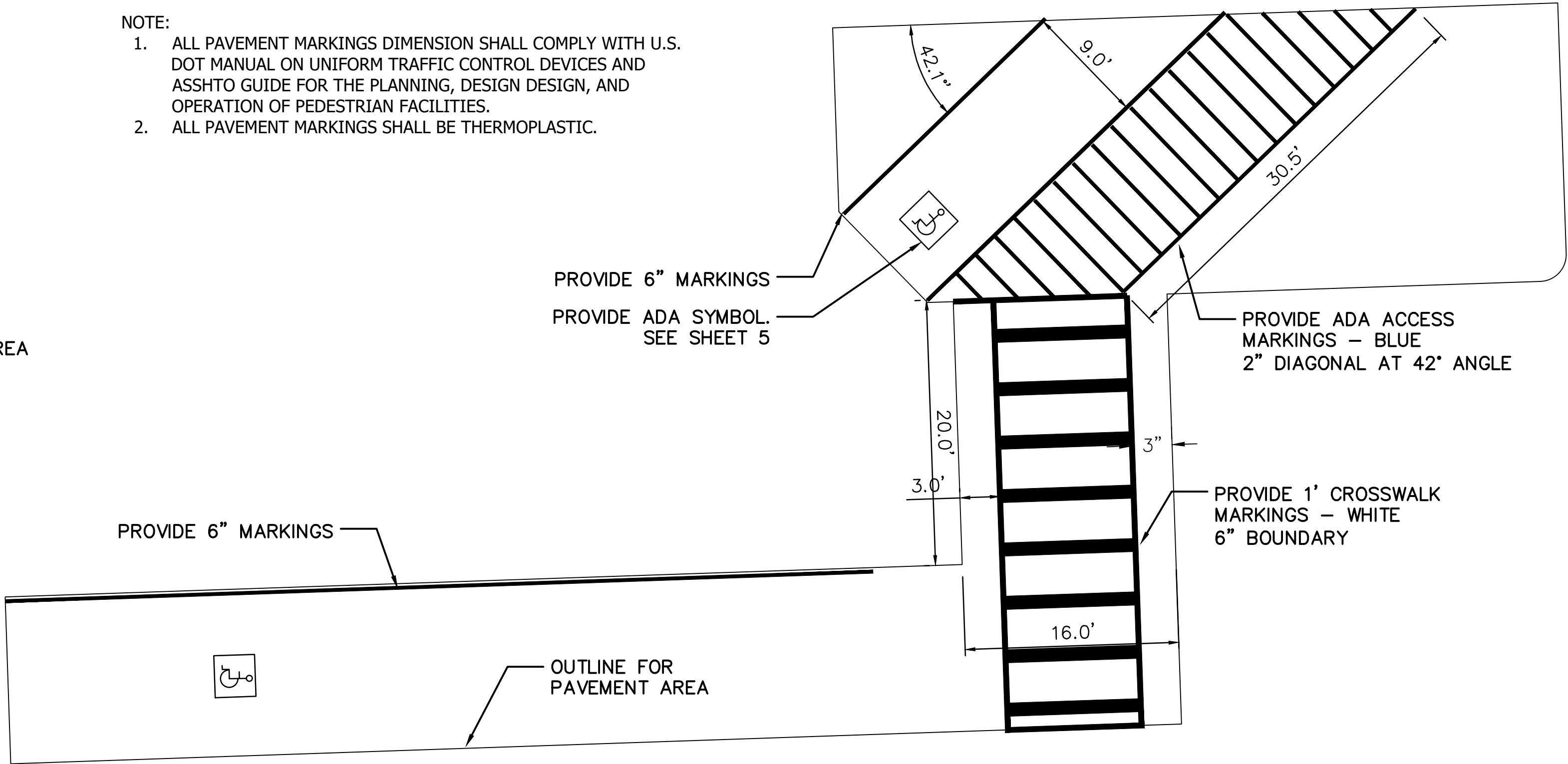
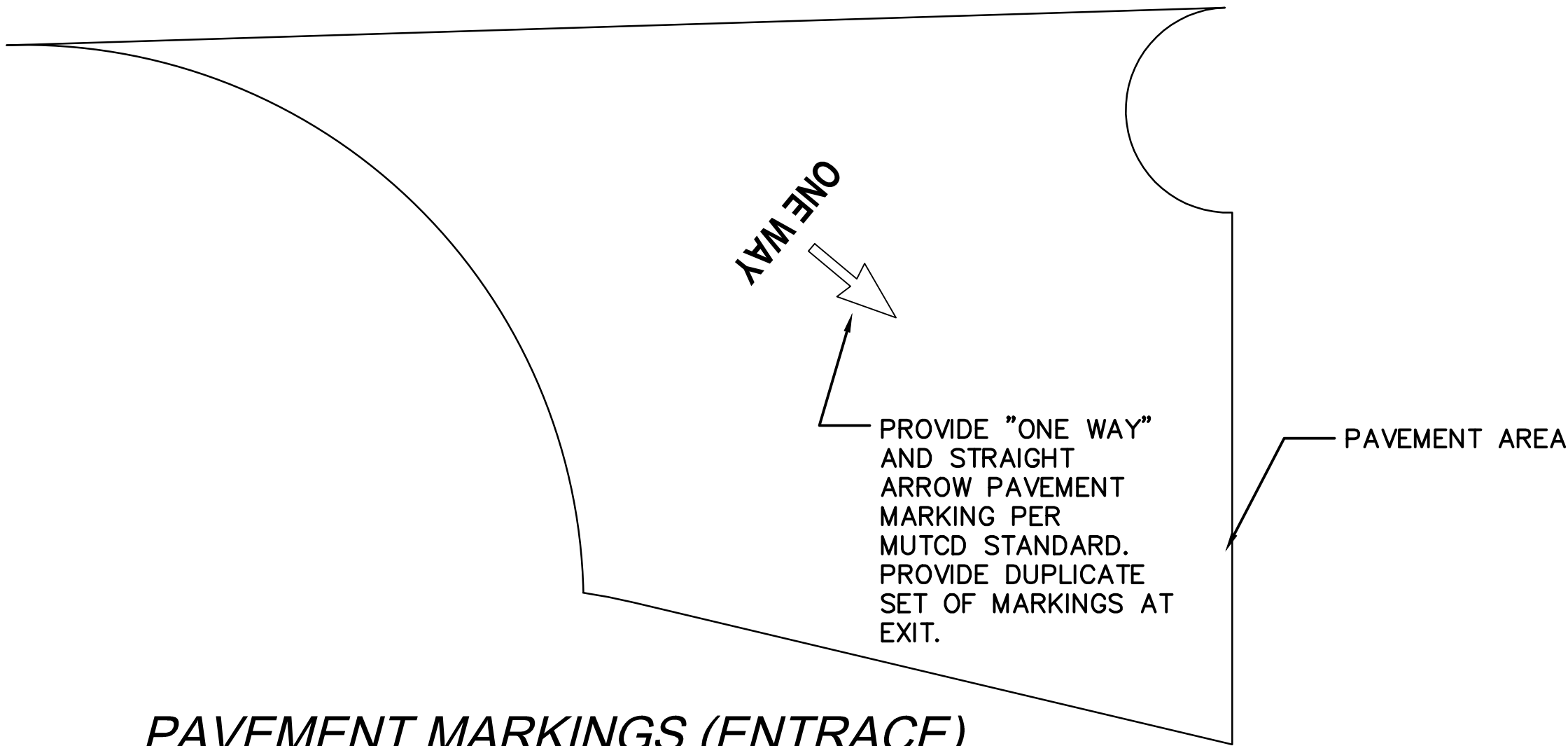
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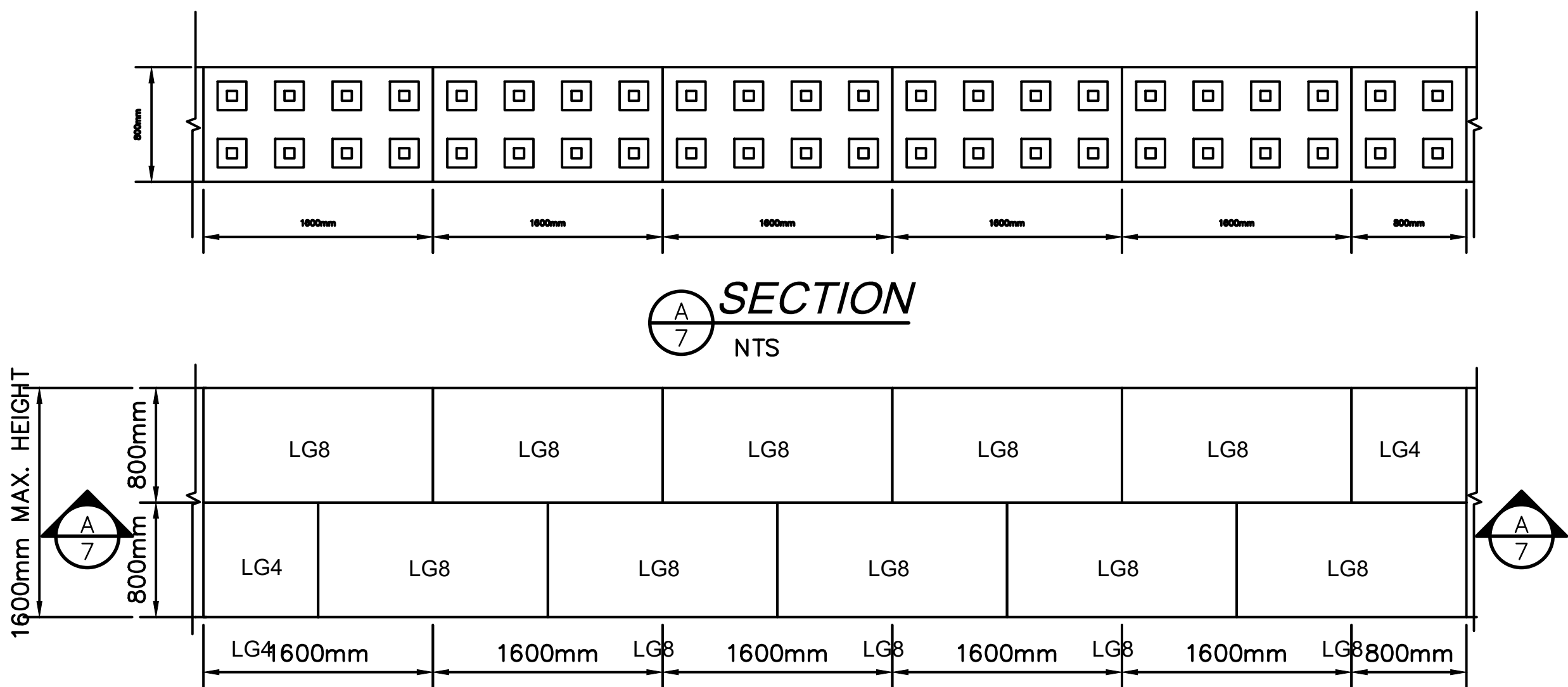
AS SHOWN

PARKS FILE#

- NOTE:
- ALL PAVEMENT MARKINGS DIMENSION SHALL COMPLY WITH U.S. DOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ASSHTO GUIDE FOR THE PLANNING, DESIGN DESIGN, AND OPERATION OF PEDESTRIAN FACILITIES.
 - ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.



PAVEMENT MARKINGS (ADA CROSSING)



FRONT VIEW - RETAINING WALL
TYPICAL ARRANGEMENT

LEGATO BLOCK PROJECT TOTAL

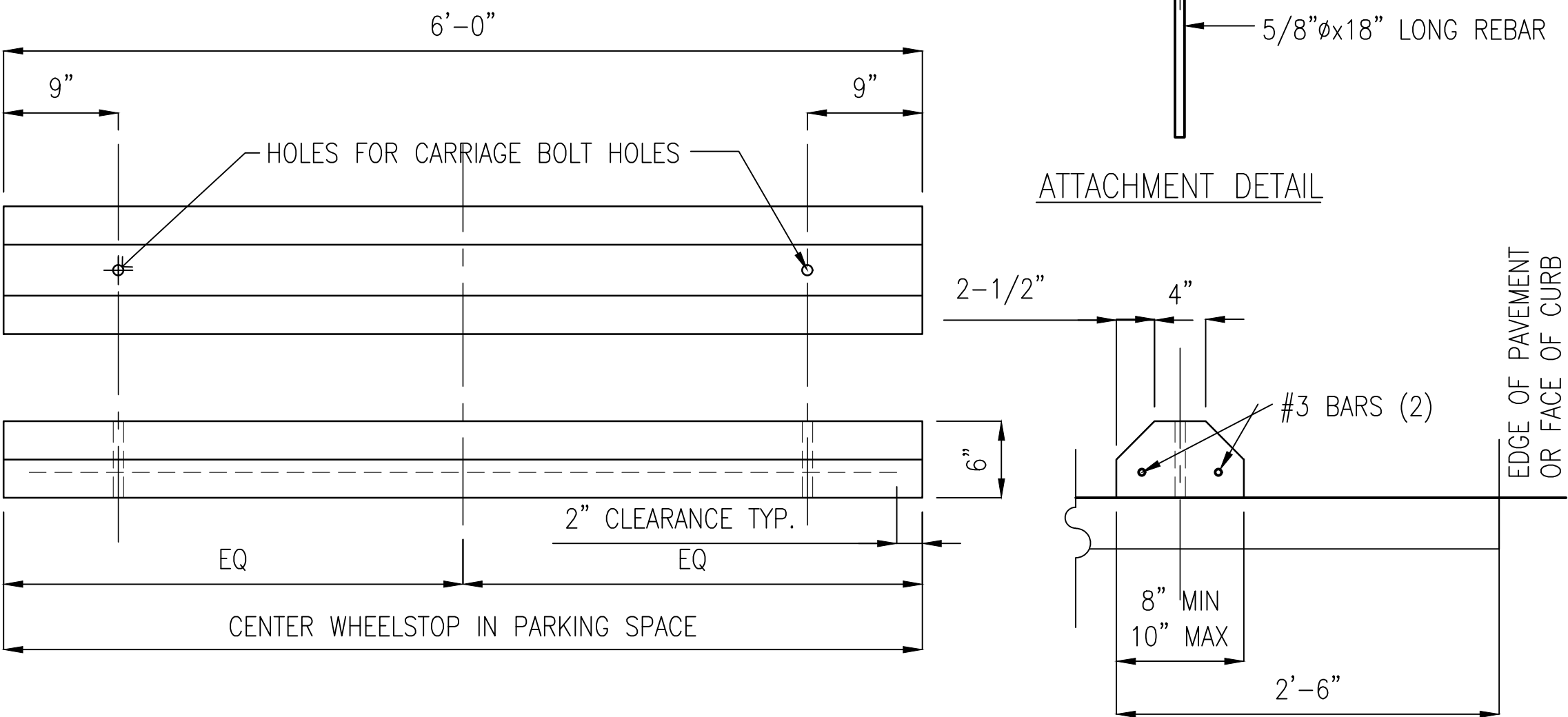
LEGATO BLOCK SCHEDULE - GRAND TOTAL		
CODE	DIMENSIONS	COUNT
LG8	1600x800x800x2.4t	206
LG4	800x800x800x2.4t	10

* 1600mm equals 5.25 feet approximately

RETAINING WALL NOTES:

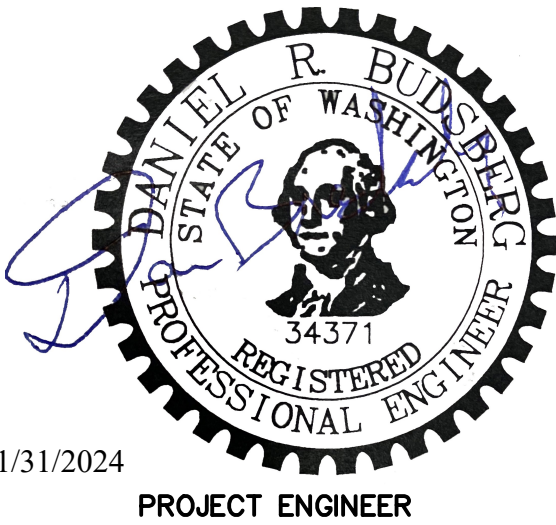
- RETAINING WALLS MUST BE INSTALLED AND CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH OF RETAINING WALL ONSITE.
- RETAINING WALL UNITS AND INSTALLATION SHALL CONFORM TO THE ELITE KELLEY BLOCK (LEGATO BLOCK) RETAINING WALL SYSTEMS SPECIFICATIONS GUIDELINES.
- BACKFILL NATIVE SOIL BEHIND THE RETAINING WALL
- NO GEOGRID IS REQUIRED
- NO DRAIN PIPE IS REQUIRED BEHIND THE WALL

NOTE:
CENTER WHEELSTOP IN PARKING SPACE.



CAD NO.W500-SW10-2023-MASTER

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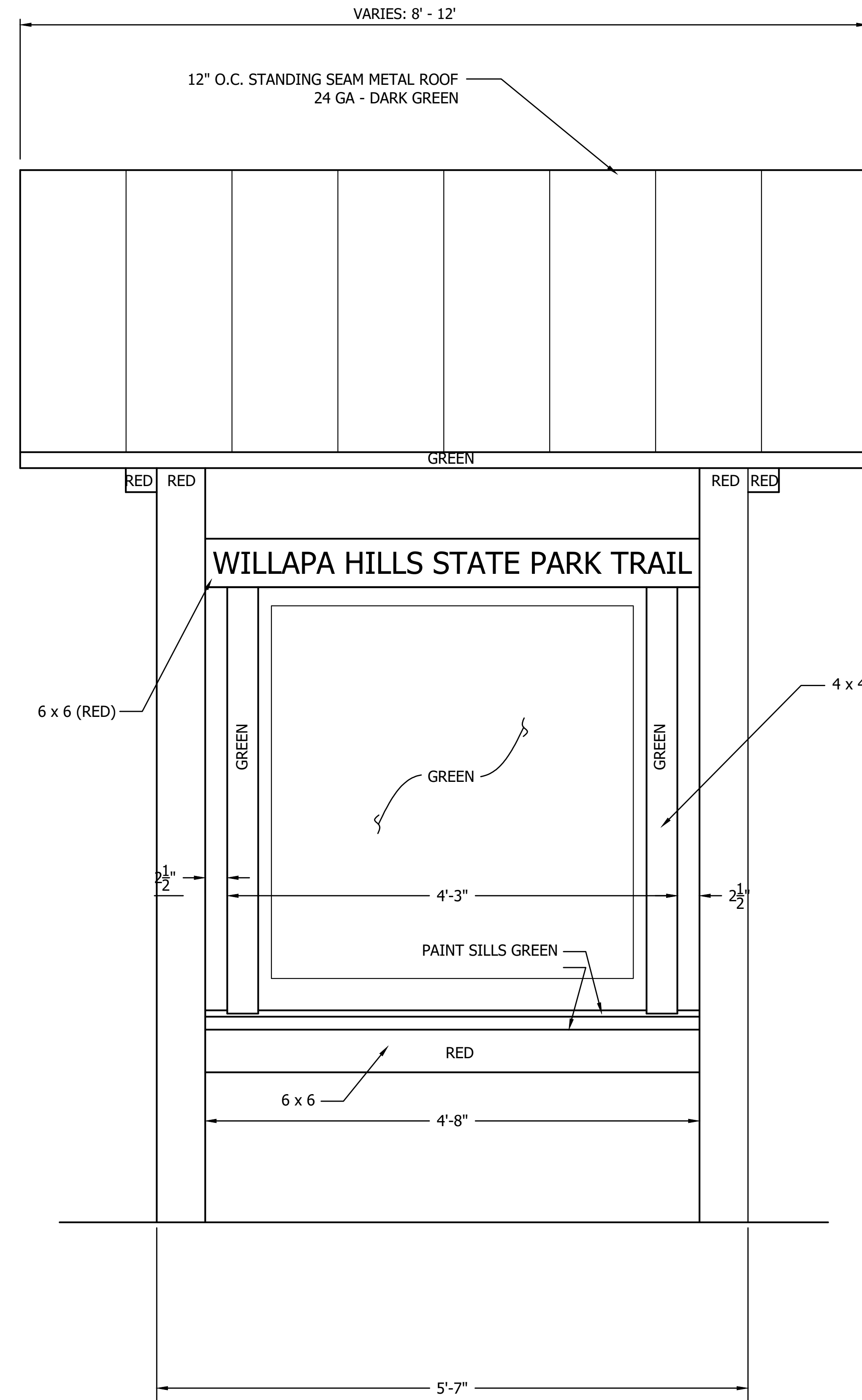
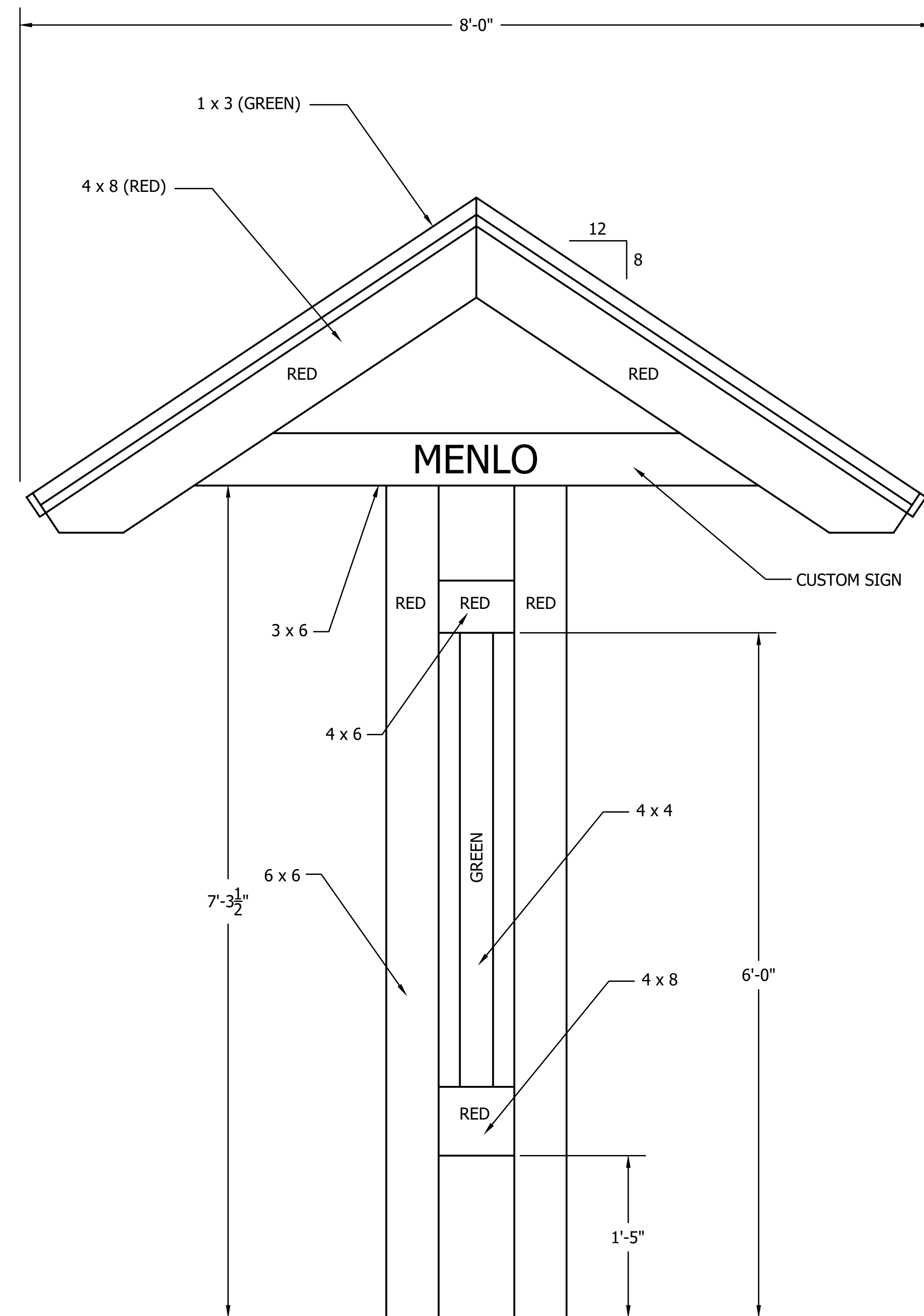
MENLO
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PAVEMENT
MARKING AND
MISC. DETAILS

SCALE

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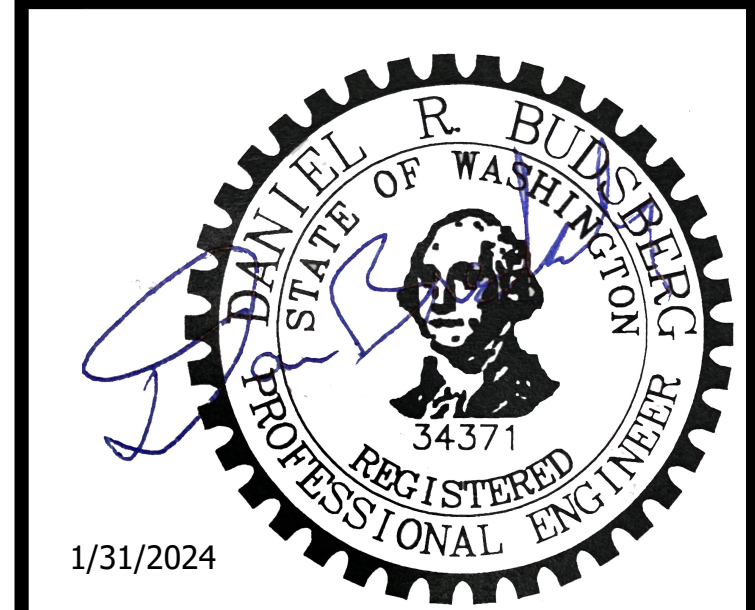


NOTE:

1. PAINT KIOSK WITH (2) COATS PRIMER AND (3) COATS RED & RED AS SHOWN
2. PROVIDE CUSTOM ROUTERED WOOD SIGNS. GREENS PAINTED BACKGROUND W/ WHITE REFLECTIVE PAINT FOR LETTERING.

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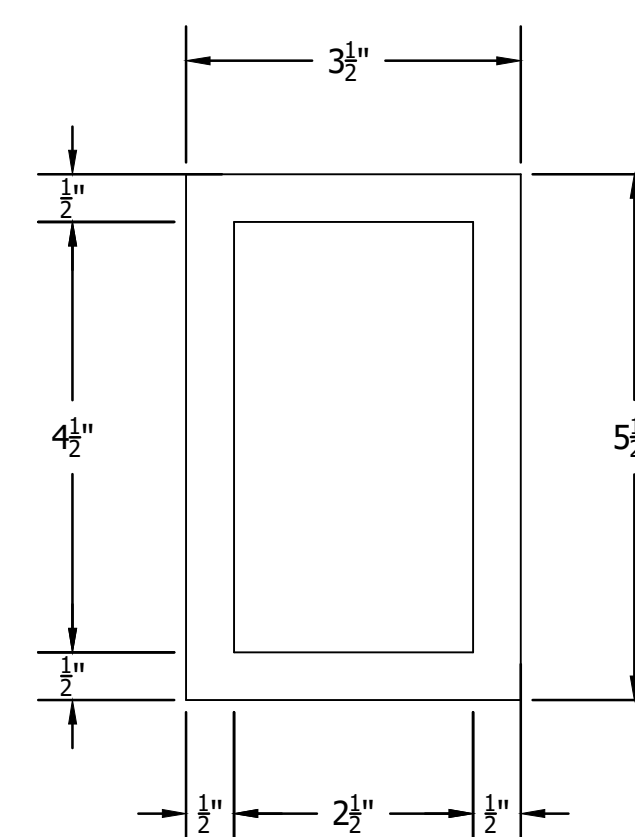
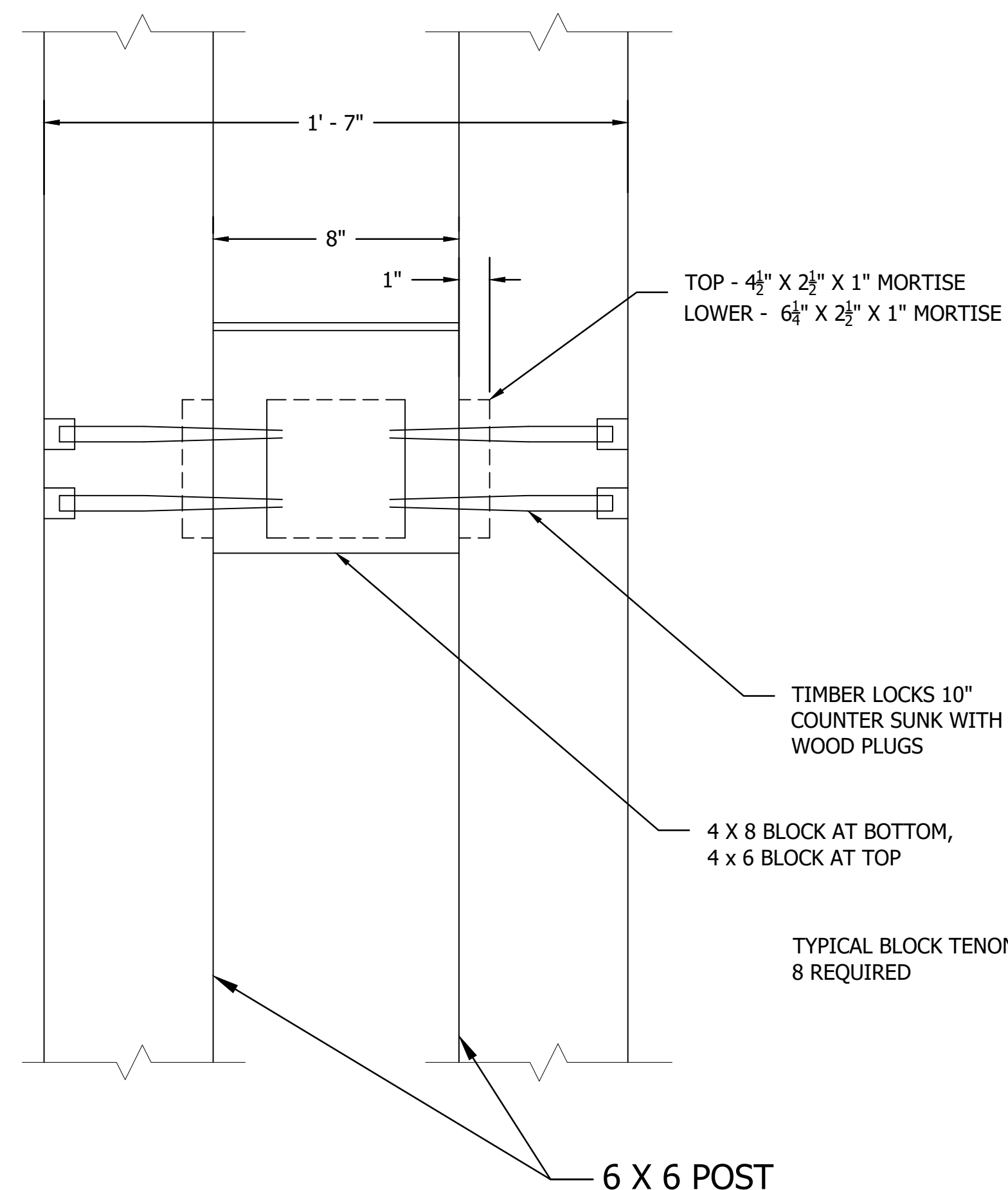
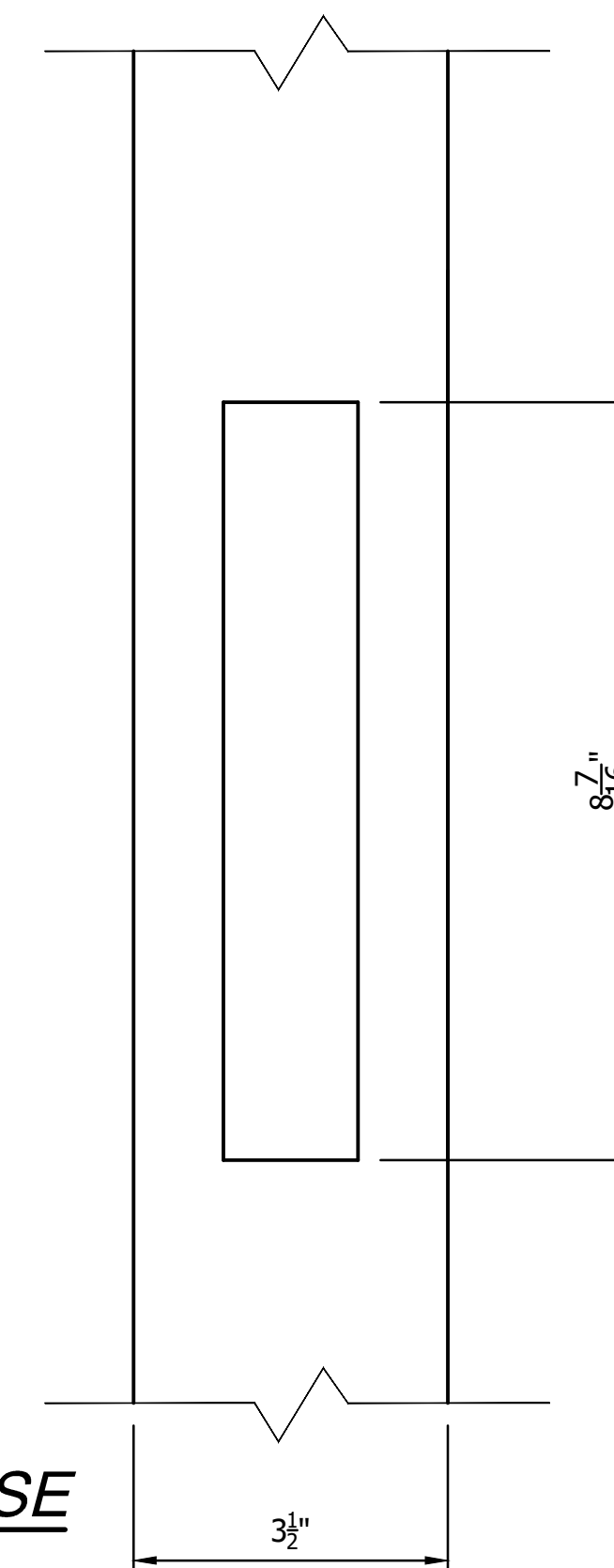
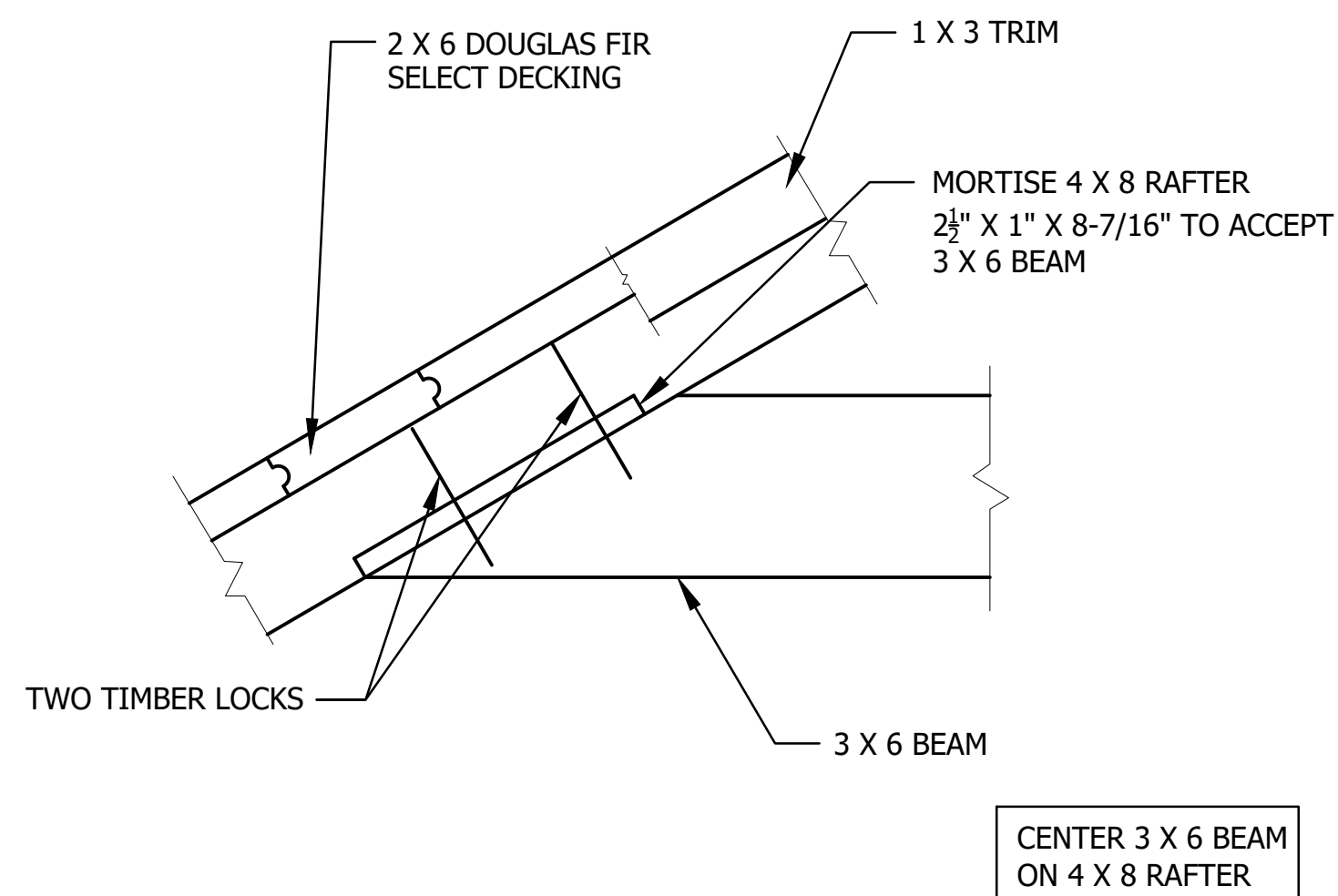
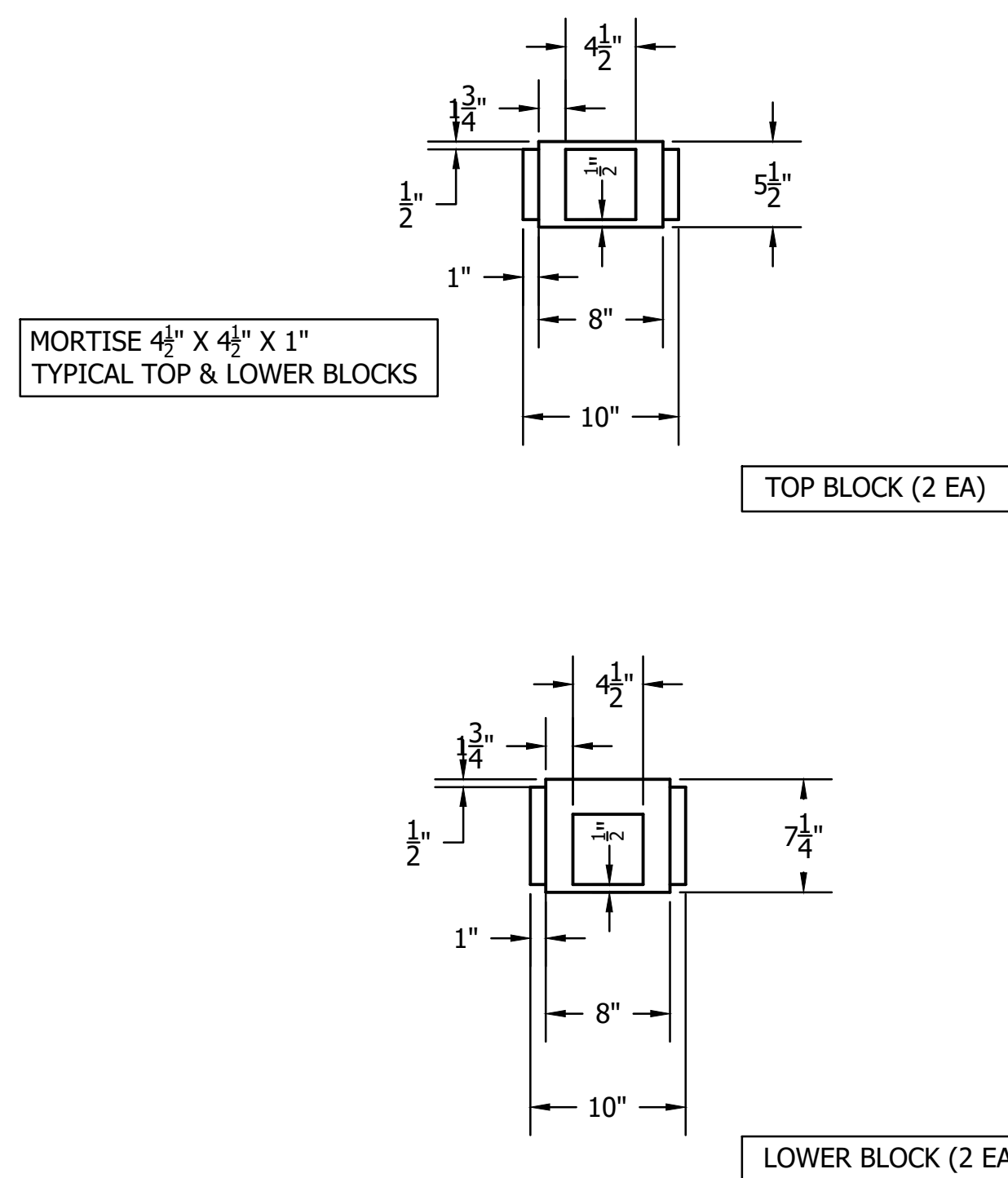
WILLAPA HILLS
STATE PARK TRAIL

MENLO TRAILHEAD

BULLETIN BOARD

SCALE
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PARKS FILE#



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WILLAPA HILLS STATE PARK TRAIL

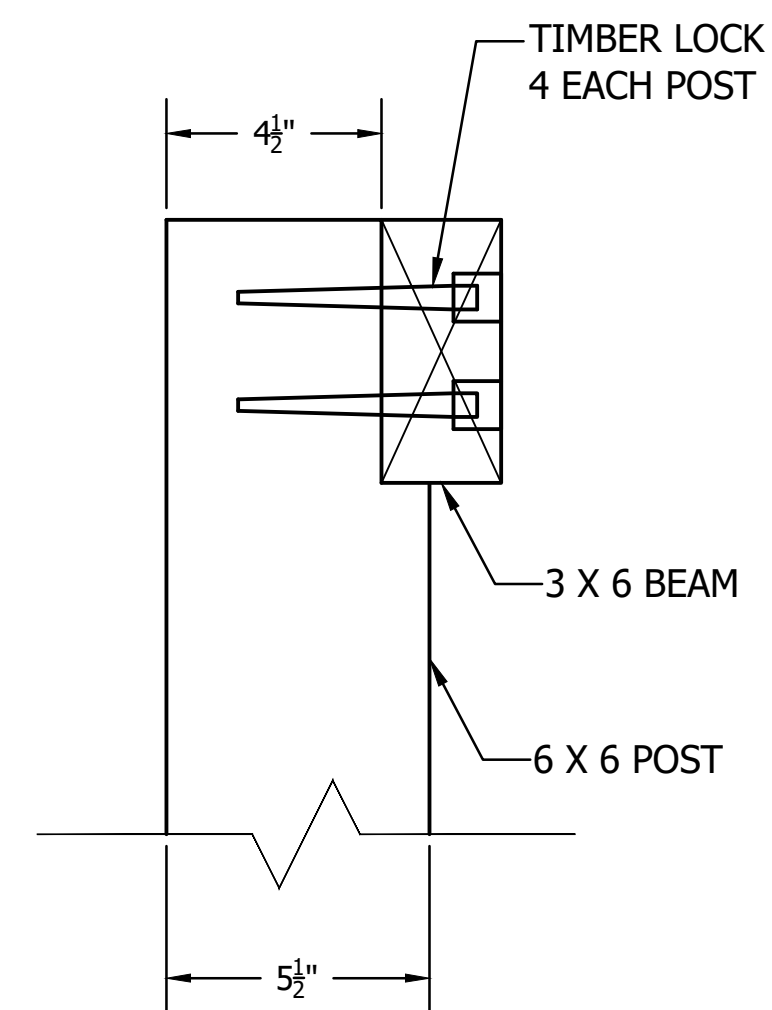
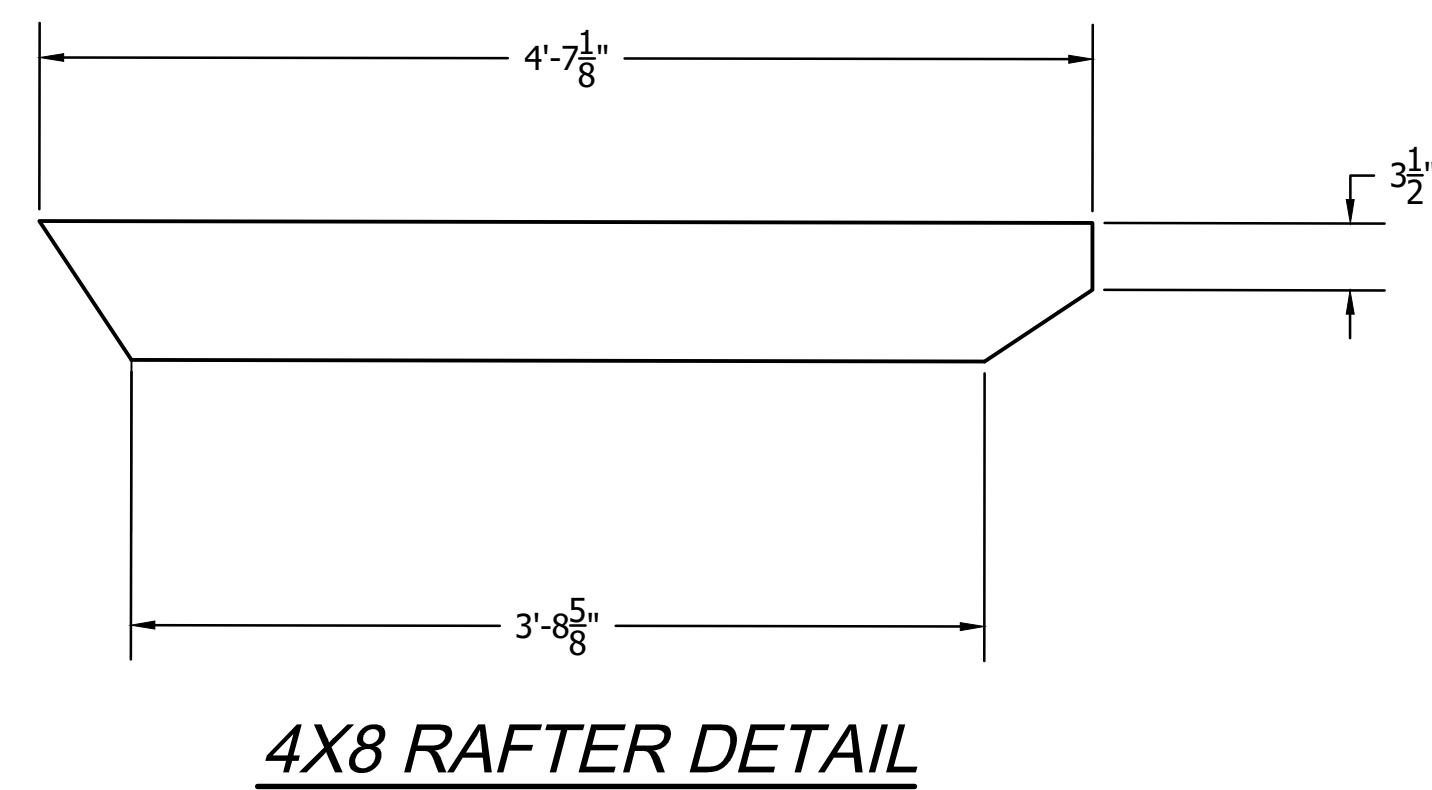
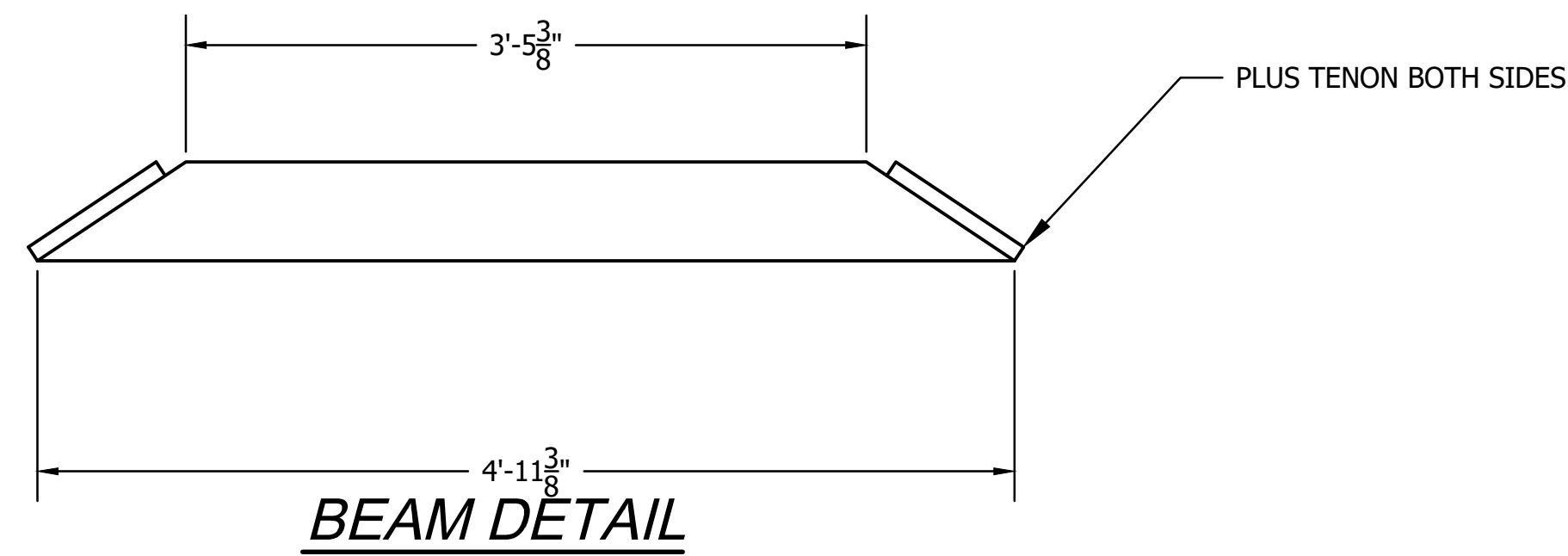
MENLO TRAILHEAD

BULLETIN BOARD DETAILS

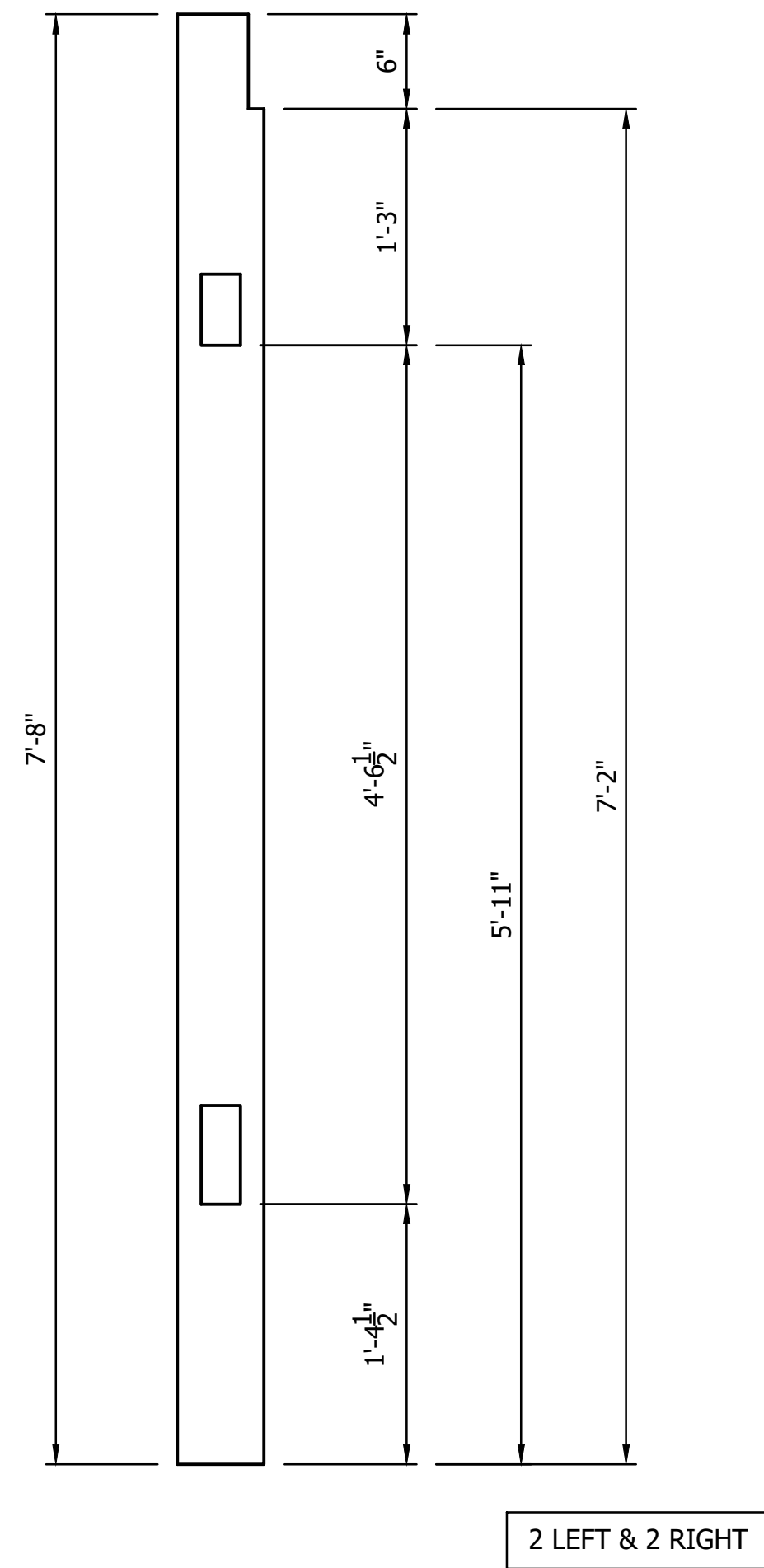
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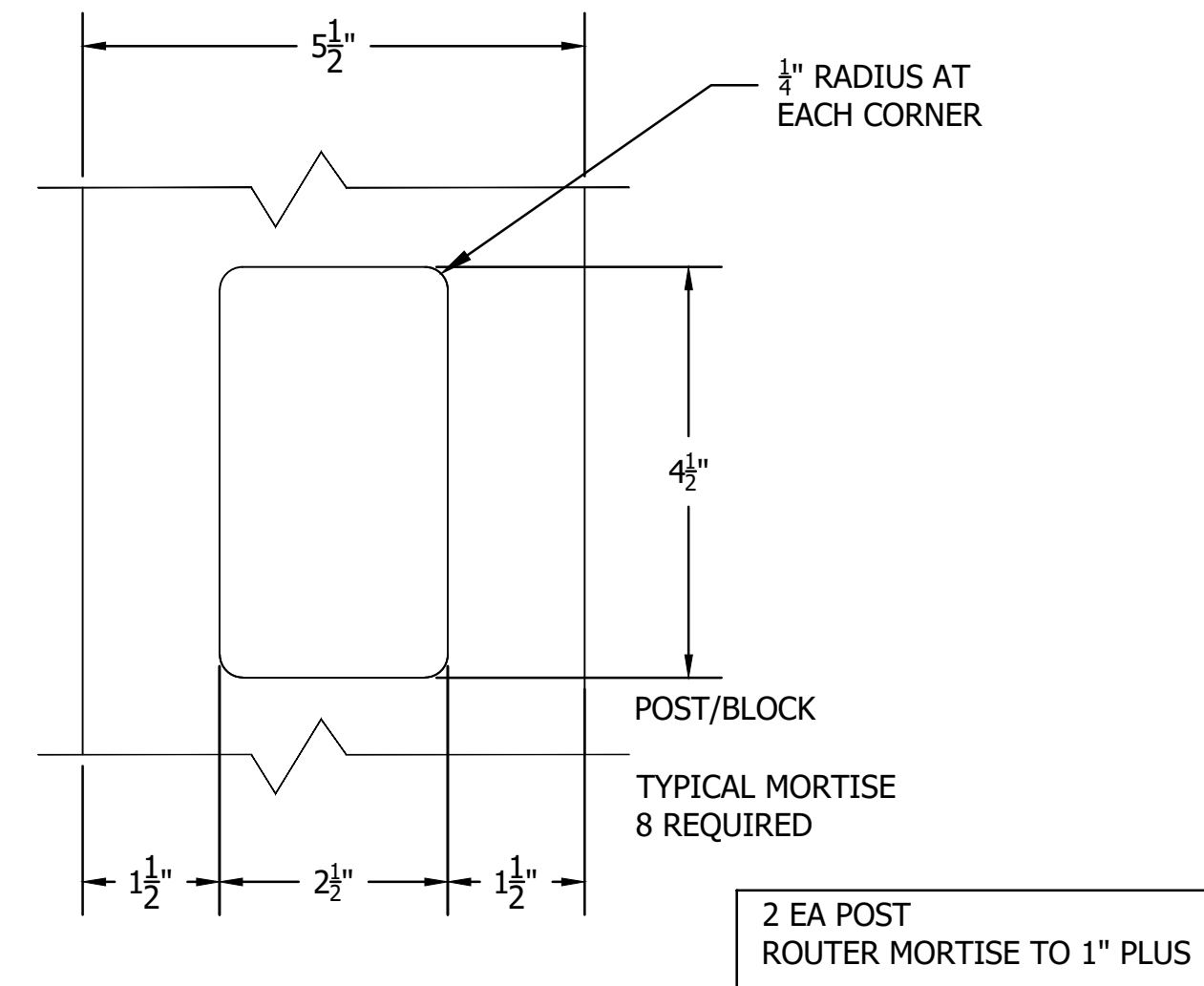
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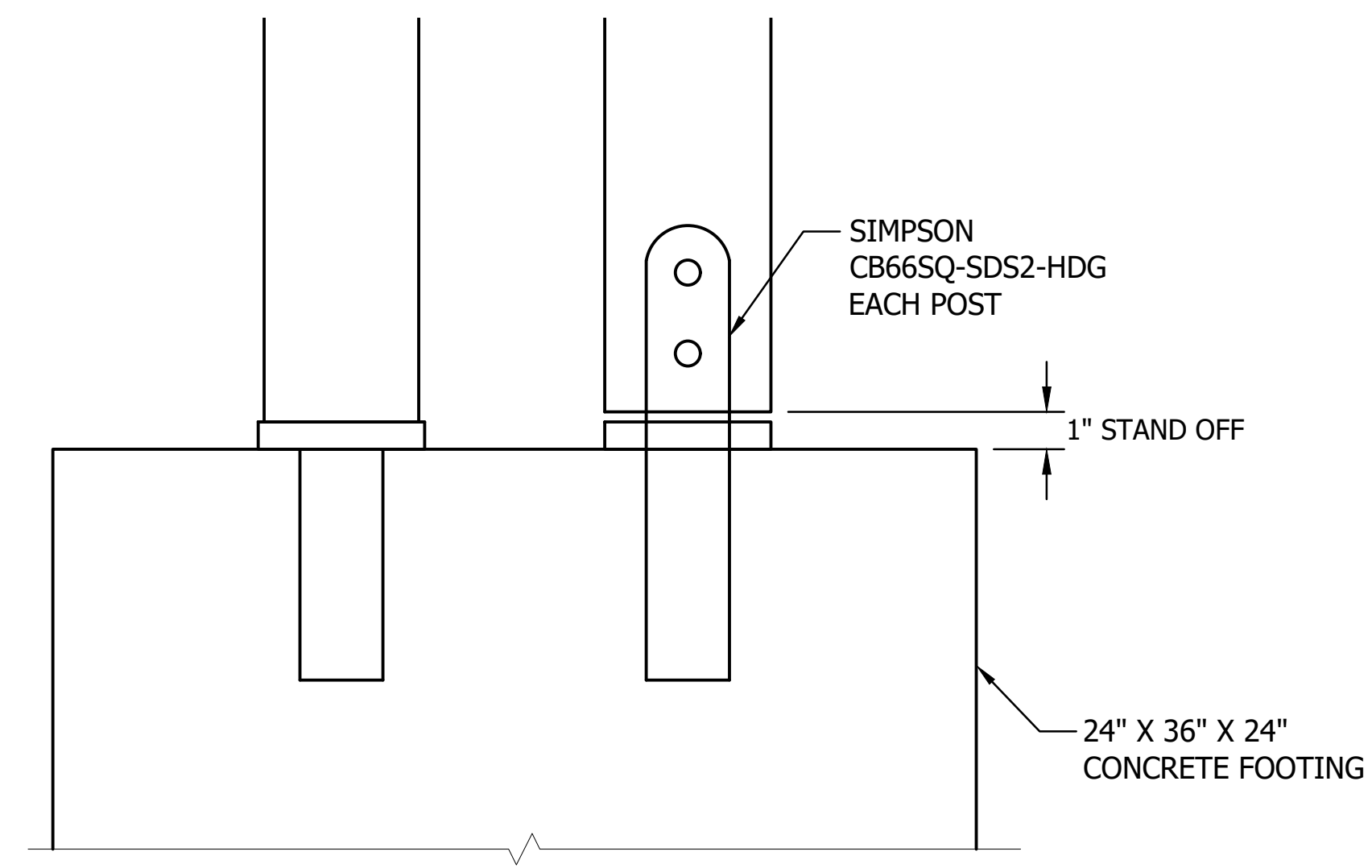
BEAM TO POST DETAIL



6X6 POST DETAIL



BLOCK TO POST MORTISE DETAIL

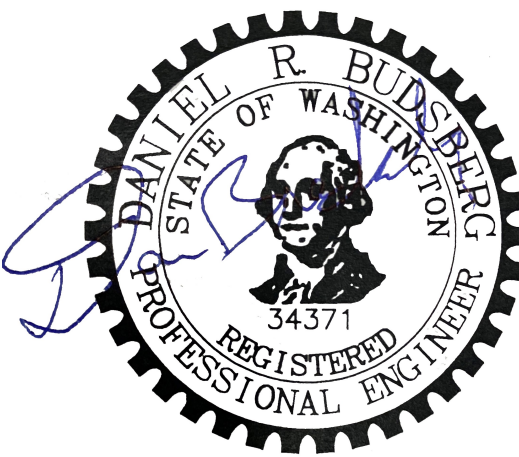


POST BASE DETAIL

CAD NO. B300-2013-SW1-KS MASTER		
	DATE	
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	REVISIONS	
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ACTION	BY	DATE
DESIGNED		2015
DRAWN		2015
CHECKED (FIELD)		
CHECKED (HDQTS.)		
 1/31/2024 REGISTERED STAMP		
WASHINGTON STATE PARKS AND RECREATION COMMISSION 		
WILLAPA HILLS STATE PARK TRAIL MENLO TRAILHEAD BULLETIN BOARD DETAILS		
SCALE NONE		
PARKS FILE#		

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED		2015
DRAWN		2015
CHECKED (FIELD)		
CHECKED (HDQTS.)		



1/31/2024
REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



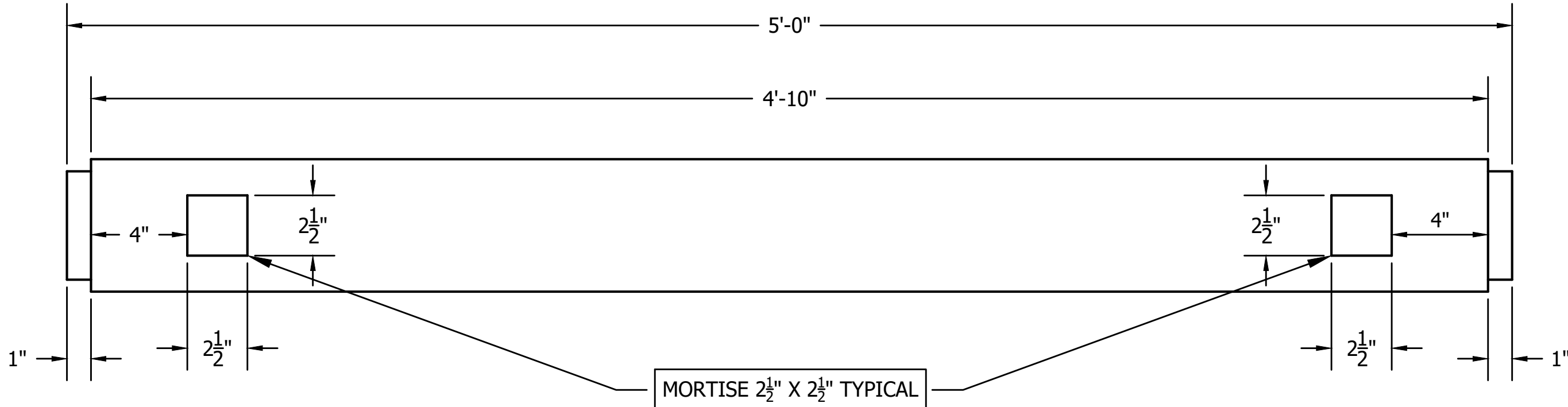
WILLAPA HILLS
STATE PARK TRAIL

MENLO TRAILHEAD

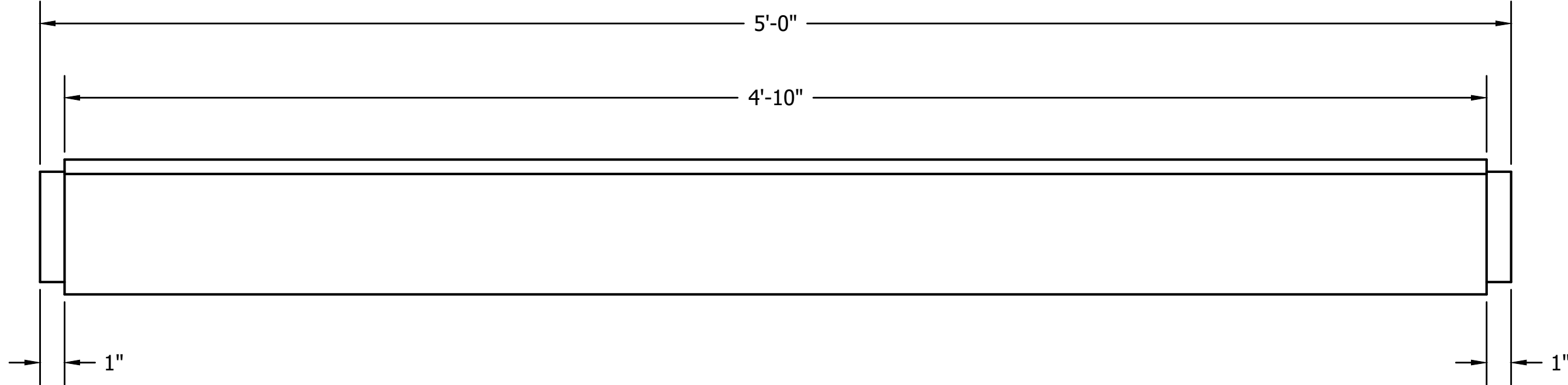
BULLETIN BOARD
DETAILS

SCALE
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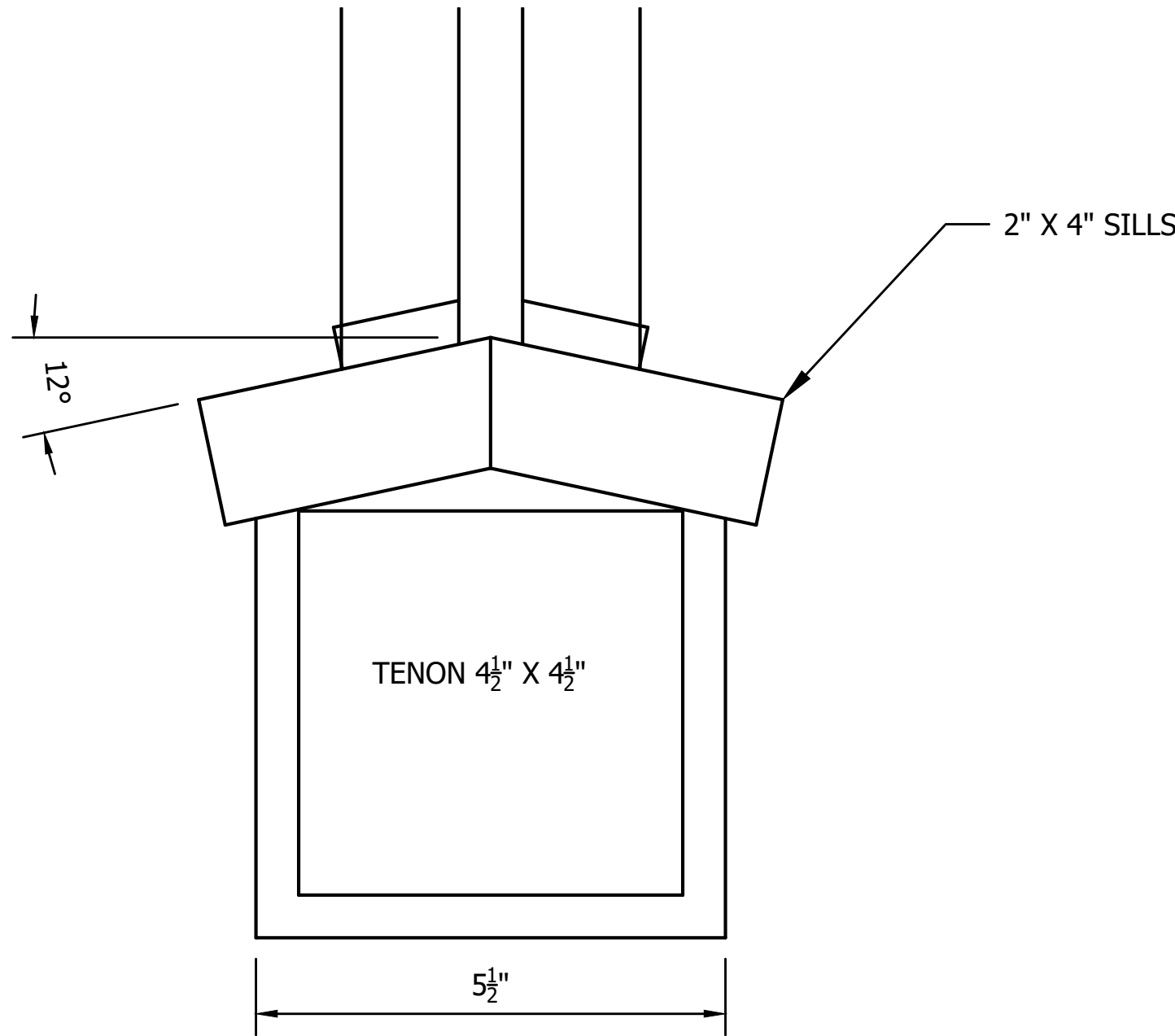
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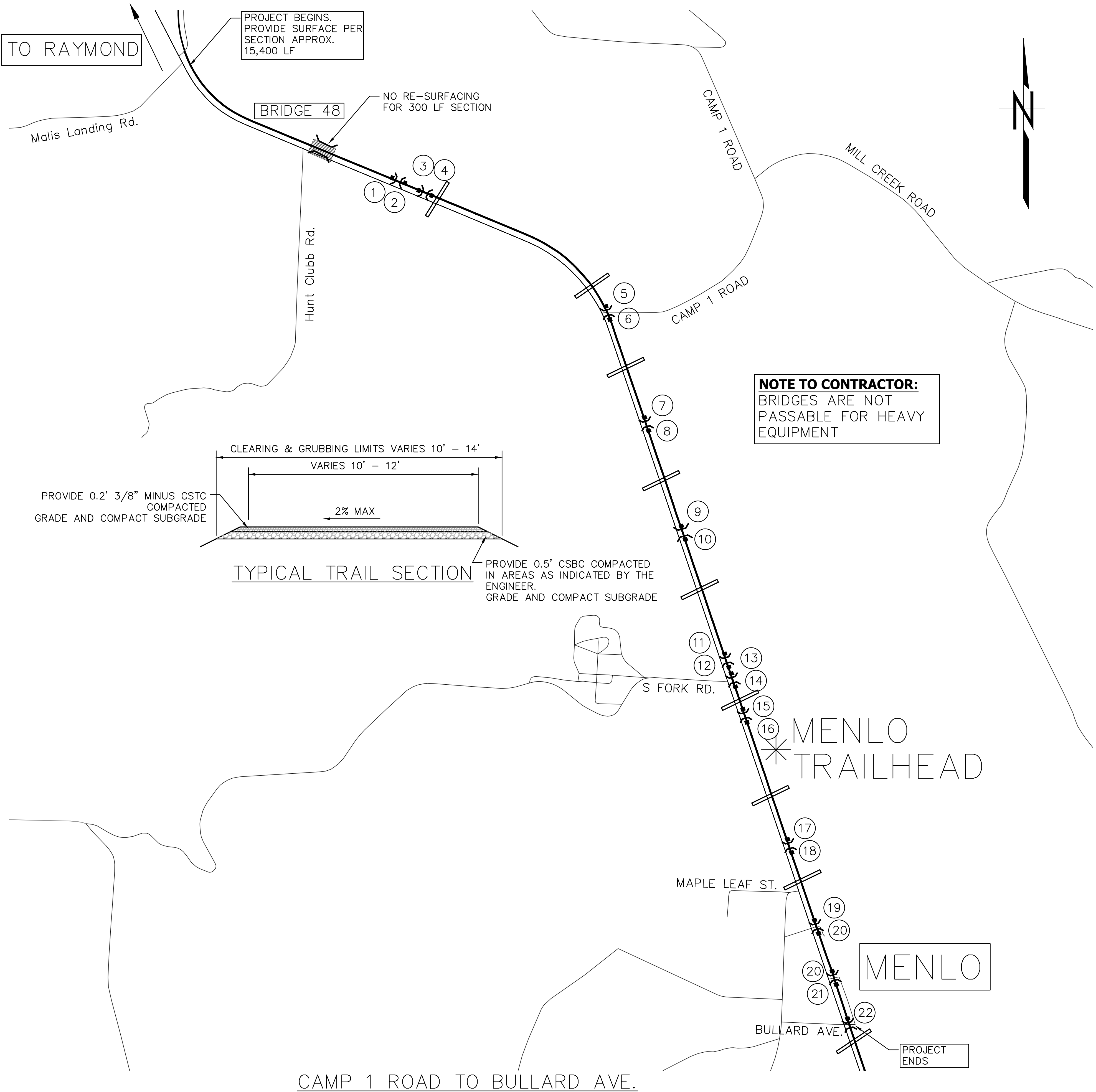
TOP BEAM



BOTTOM BEAM



BOTTOM BEAM SECTION



- NOTES:
- 1. PROVIDE SILT FENCING 15 FT UP/DOWN STREAM CROSSINGS.
 - 2. ALL BRIDGES EXCEPT BRIDGE NO. 48 ALONG THE TRAIL ARE LIMITED TO H15 LOADING. NO VEHICLE SHOULD BE ALLOWED ON BRIDGE NO. 48
 - 3. PROVIDE CASORON®4G WEED KILLER ON THE RESURFACED TRAIL. APPLY CHEMICAL PER MANUFACTURER'S INSTRUCTIONS.
 - 4. PROVIDE TRANSITION AT DRIVEWAYS/ROADWAYS.
 - 5. USE SMMWW BMP 105 AT PROJECT EXIT LOCATIONS

3.0 MILES – MALIS LANDING RD. TO BULLARD AVE.

- CULVERT
- MILE MARKER
- BRIDGE/TRESTLE
- CROSSING
- SILT FENCE
- DRIVEWAY
- CREEK/STREAM (NOT SHOWN)
- INSTALL PARK FURNISHED BOLLARDS AS DIRECTED (TYP 14) SEE DETAILS SHEETS 14 & 15

ALTERNATE BID ITEM -
3 MILES OF TRAIL
SURFACING

CAD NO.W500–SW10–2023–MASTER

	DATE
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	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	HL	02/08/2023
DRAWN	XXX	XX/XX/XX
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX

1/31/2024
PROJECT ENGINEER

WASHINGTON
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COMMISSION

WILLAPA HILLS
STATE PARK
TRAIL

MENLO
TRAILHEAD

TRAIL
RESURFACING

SCALE

NTS

PARKS FILE#



1. ALL WELDS TO BE $\frac{3}{16}$ " FILLET ALL AROUND.
2. HOT DIP GALVANIZE AFTER FABRICATION.
3. CAST IN 3000 PSI CONCRETE FOOTING 12"x12"x30".
4. REMOVABLE BOLLARDS ARE TO HAVE WHITE REFLECTORS ON BOTH FRONT & BACK SIDES OF POST.



ACTION	BY	DATE
DESIGNED	HL	02/08/2023
DRAWN	XXX	XX/XX/XX
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX



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COMMISSION

WILLAPA HILLS
STATE PARK
TRAIL

MENLO
TRAILHEAD

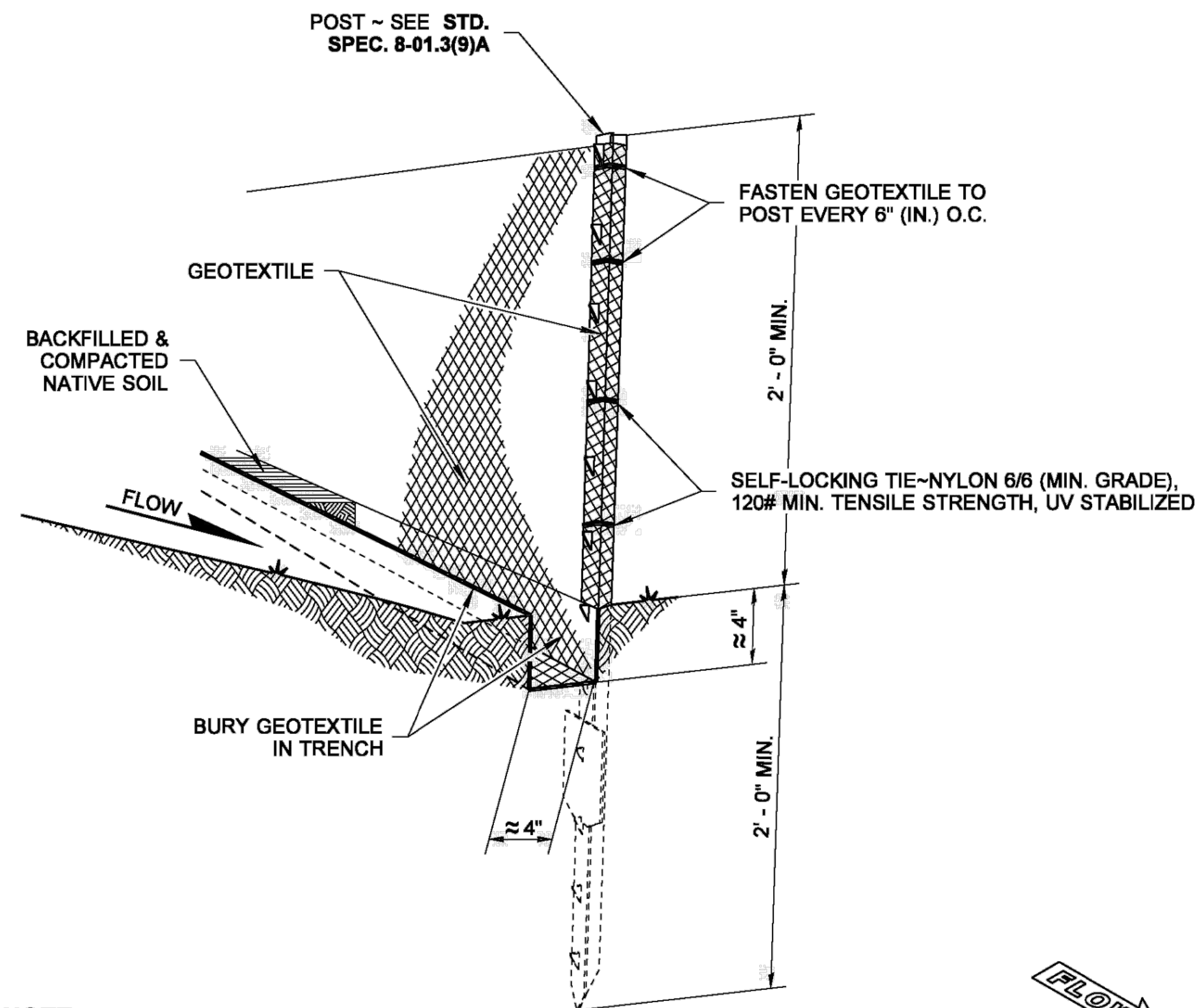
REMOVABLE BOLLARD DETAILS

SCALE

NTS

PARKS FILE#

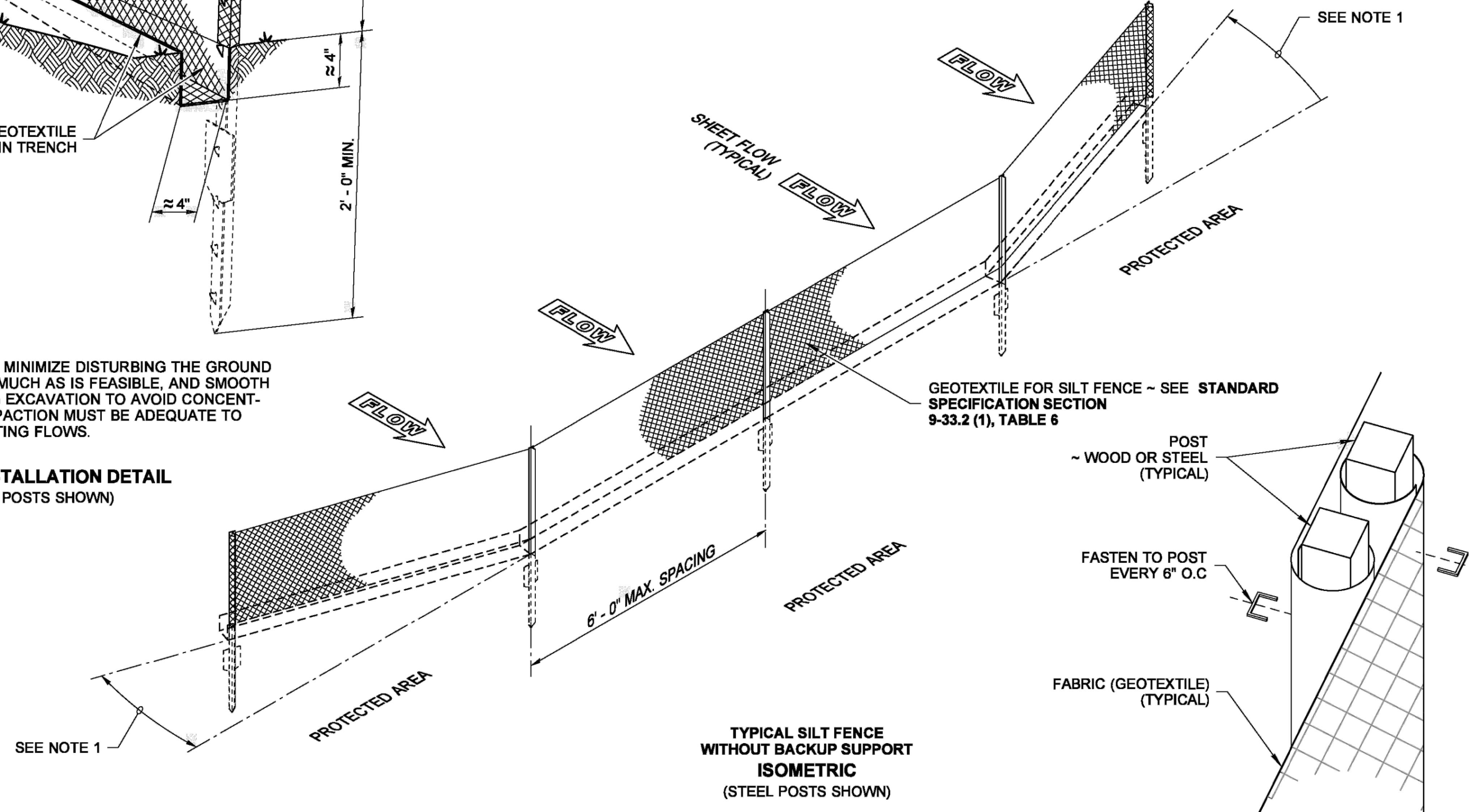
DRAWN BY: BILL BERENS



NOTE

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL
(STEEL POSTS SHOWN)



SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.

SPLICE DETAIL
(WOOD POSTS SHOWN)

SHEET 14 OF 15

NOTES

1. Install the ends of the sediment from flowing
2. Perform maintenance **8-01.3(9)A** and **8-01.3**
3. Splices shall never be splices are located in reinstalled unless the
4. Install silt fencing para

CAD NO.W500-SW10-2023-MASTER		
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DRAWN	XXX	XX/XX/XX
CHECKED (FIELD)	XXX	XX/XX/XX
CHECKED (HDQTS.)	XXX	XX/XX/XX



1/31/2024
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



WILLAPA HILLS STATE PARK TRAIL

MENLO TRAILHEAD

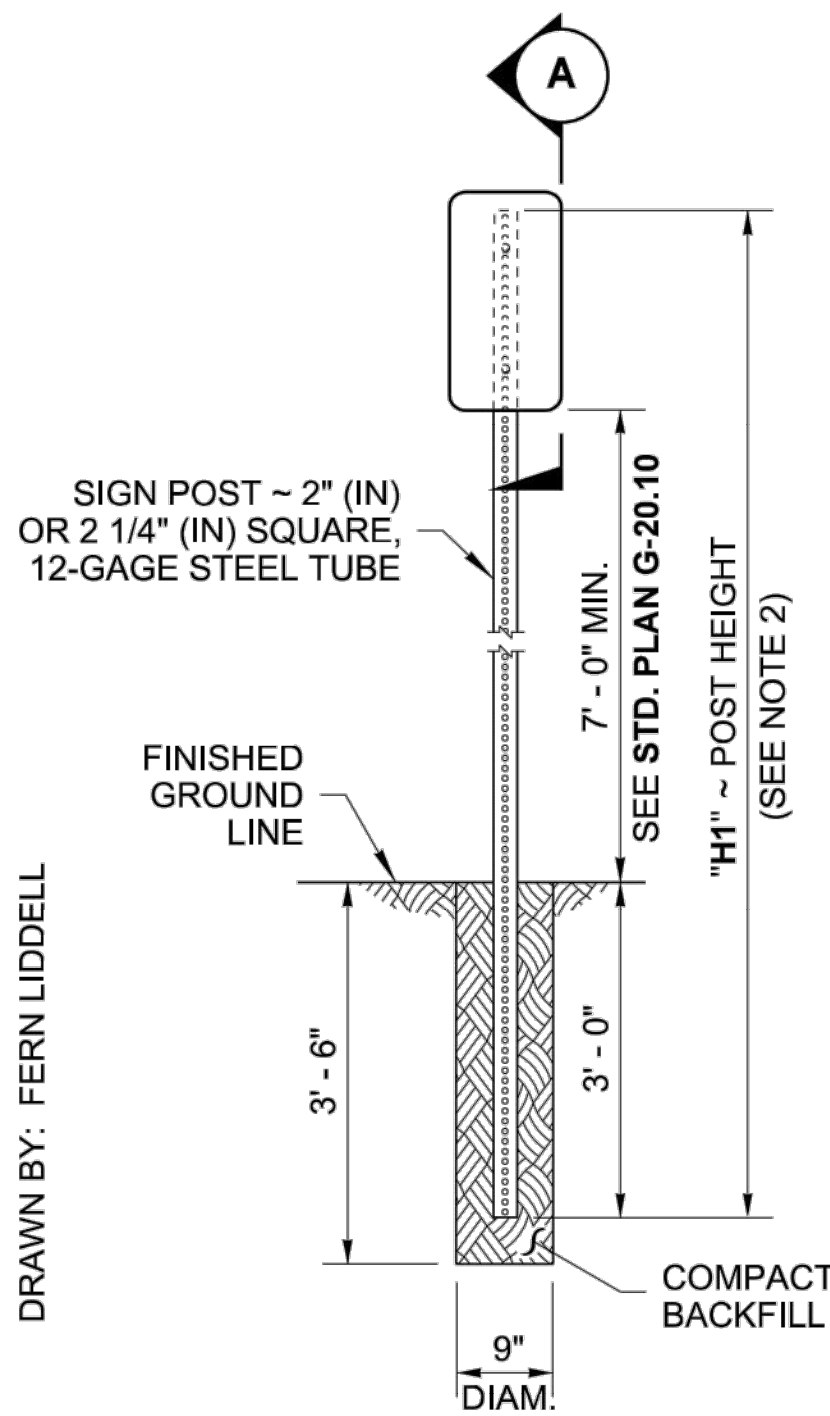
STANDARD DETAILS – SILT FENCE

SCALE

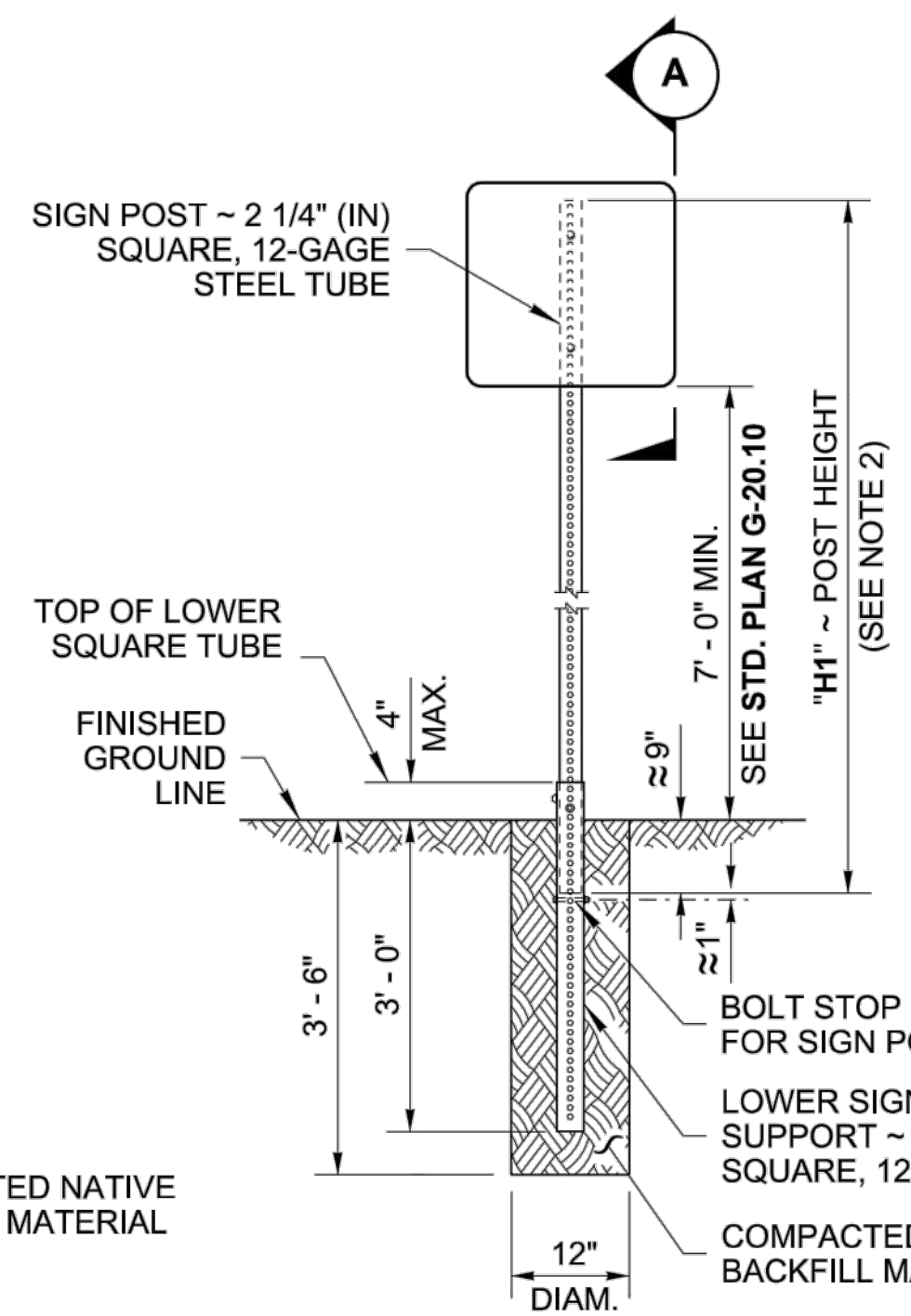
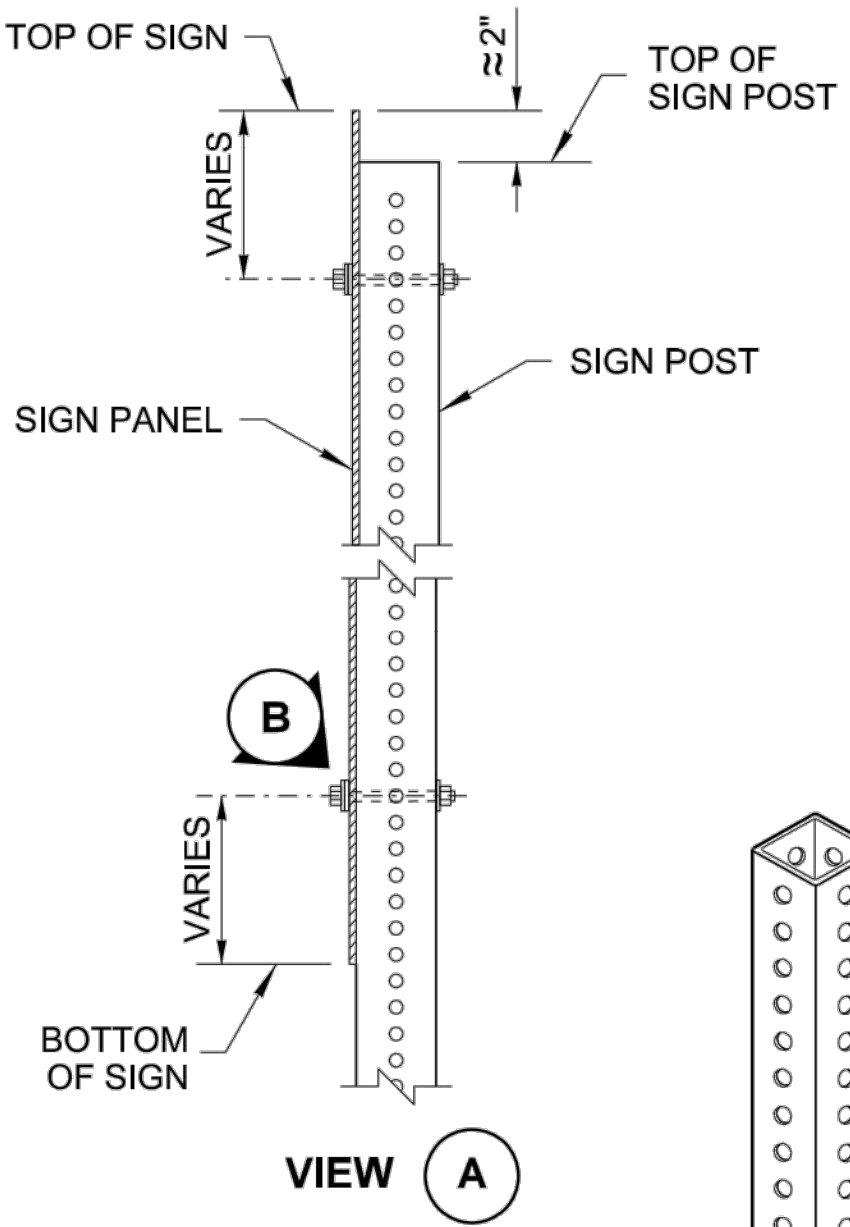
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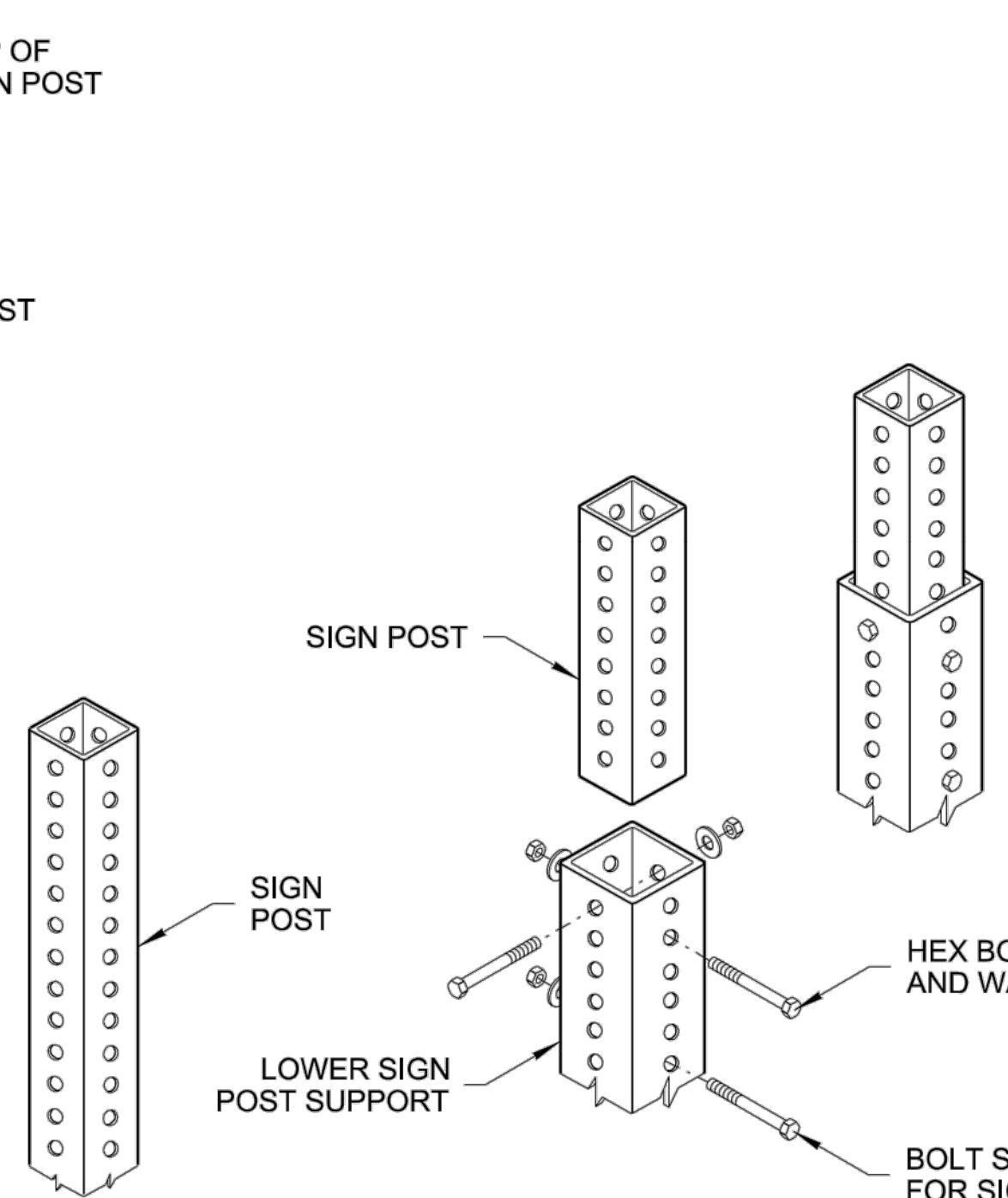
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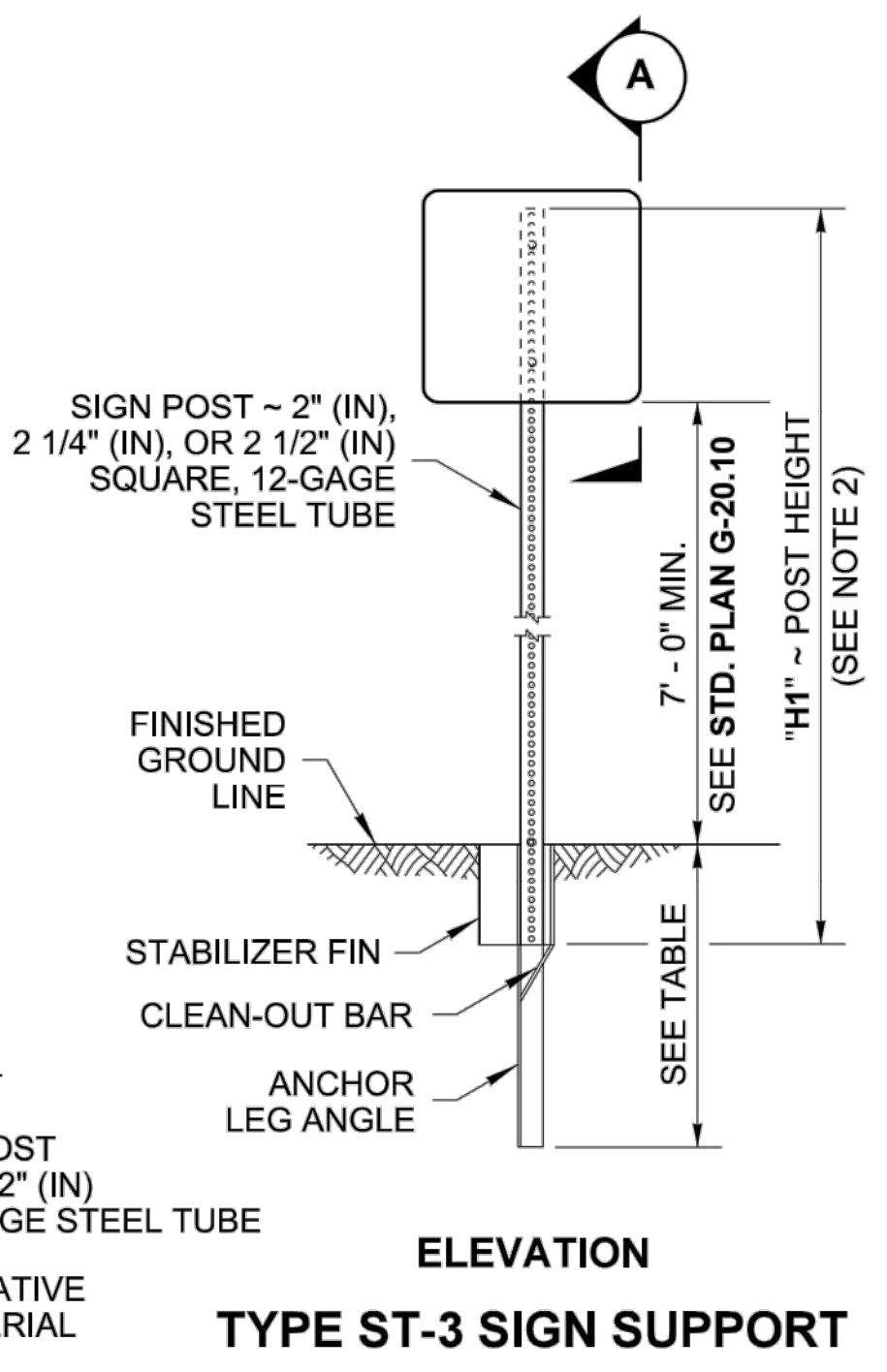
ELEVATION
TYPE ST-1 SIGN SUPPORT



ELEVATION
TYPE ST-2 SIGN SUPPORT

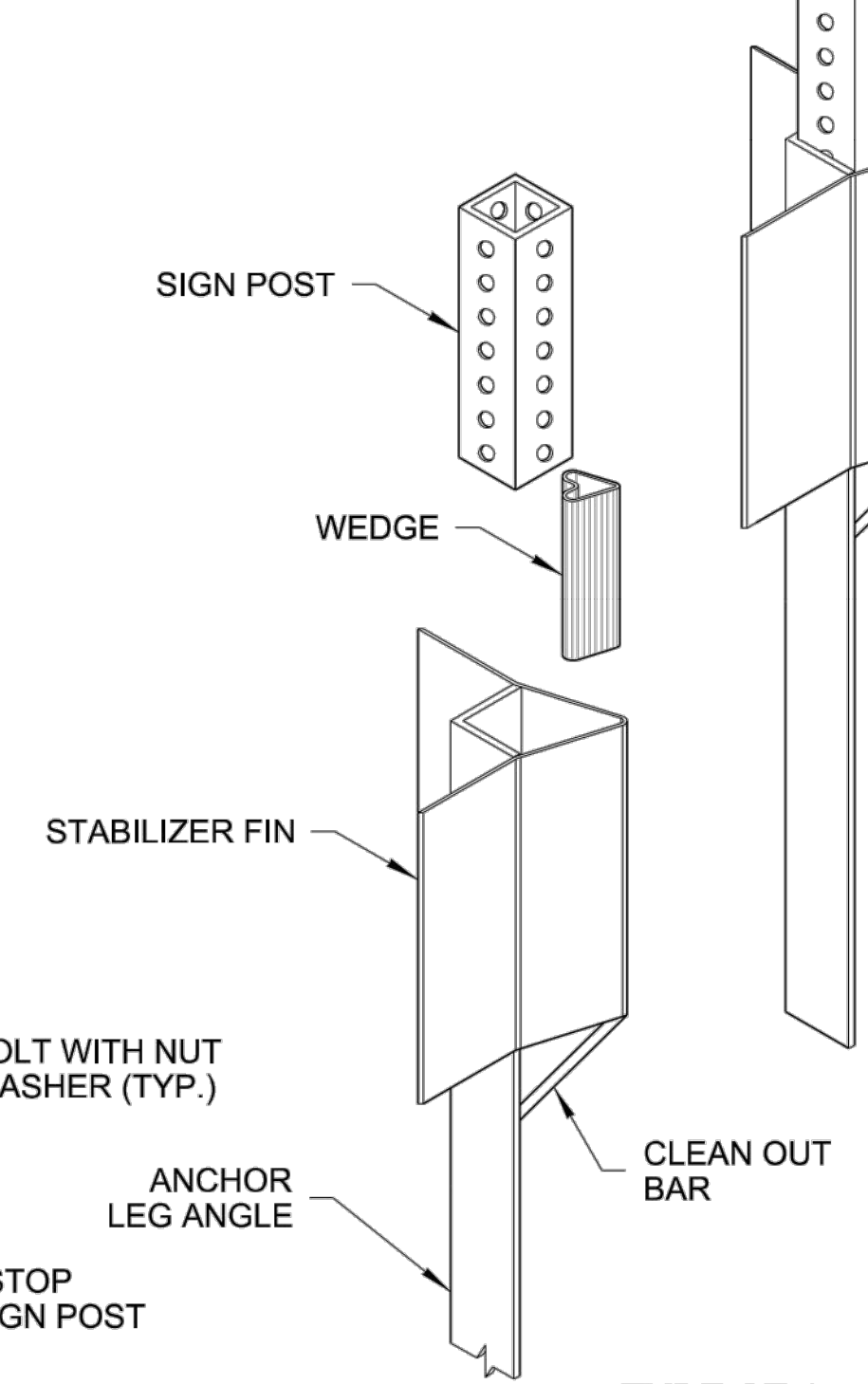


TYPE ST-1 TYPE ST-2

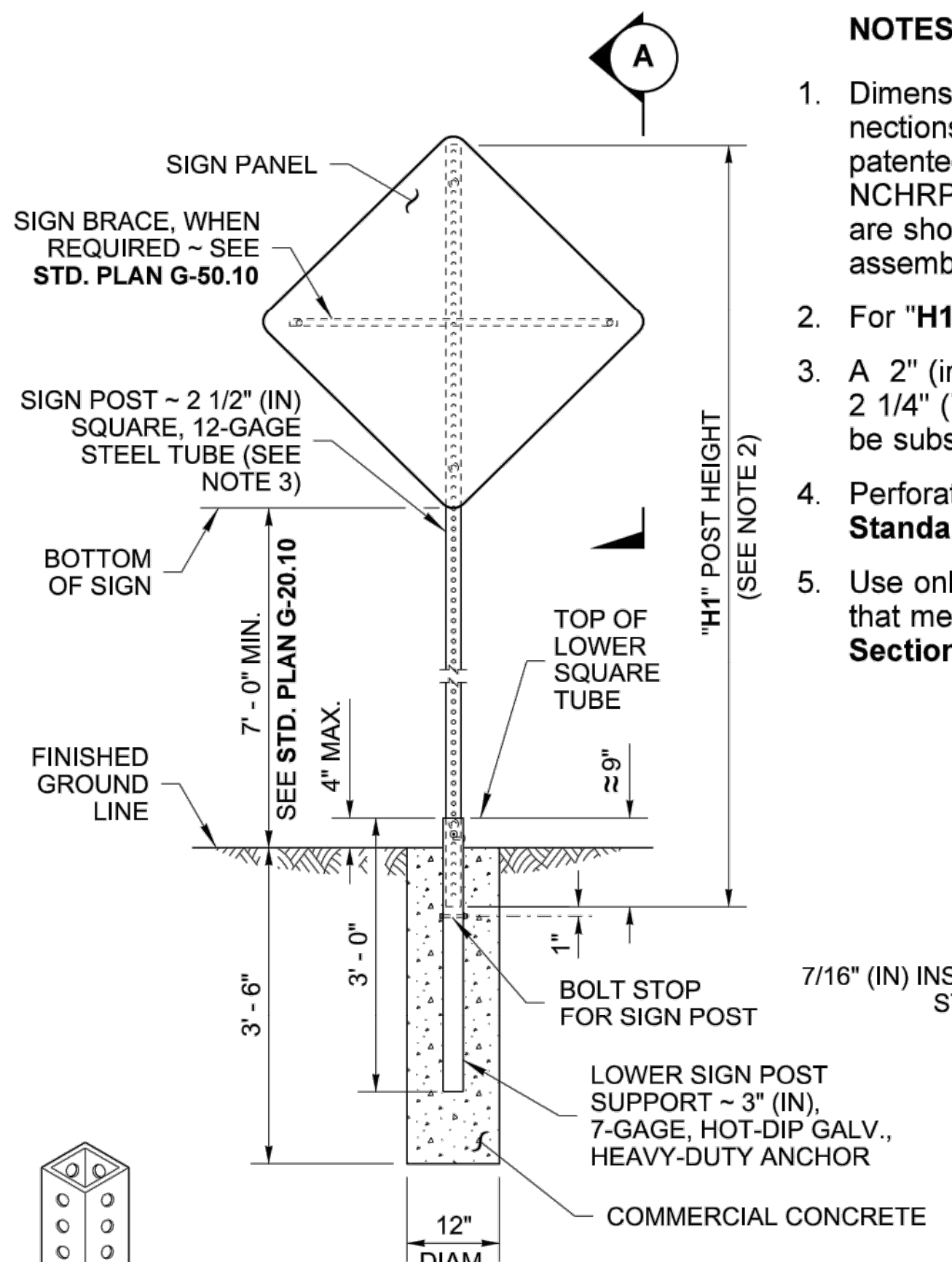


ELEVATION
TYPE ST-3 SIGN SUPPORT

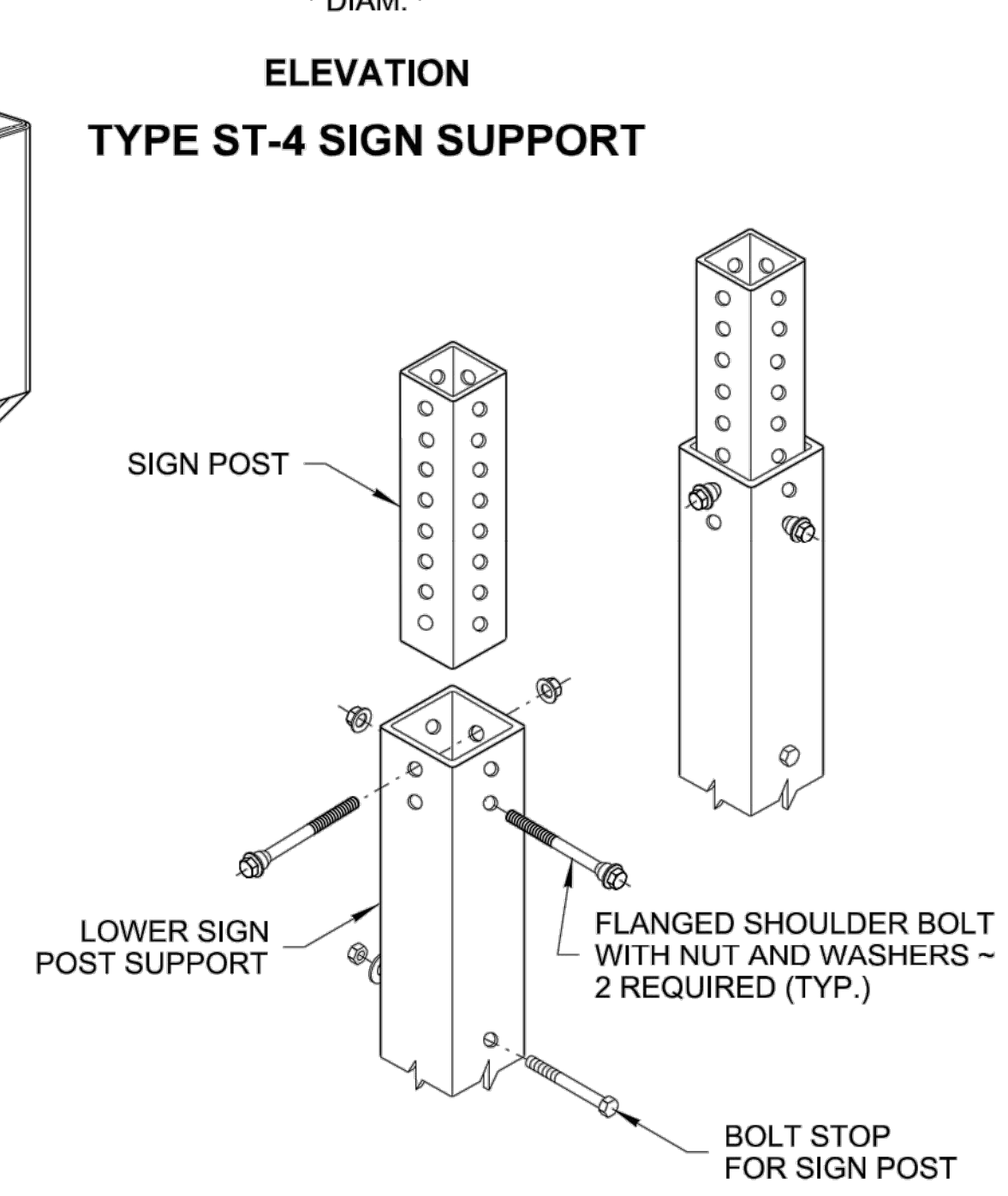
BURIED DEPTH	POST SIZE
2' - 6"	2", 2 1/4"
3' - 0"	2 1/2"



TYPE ST-3



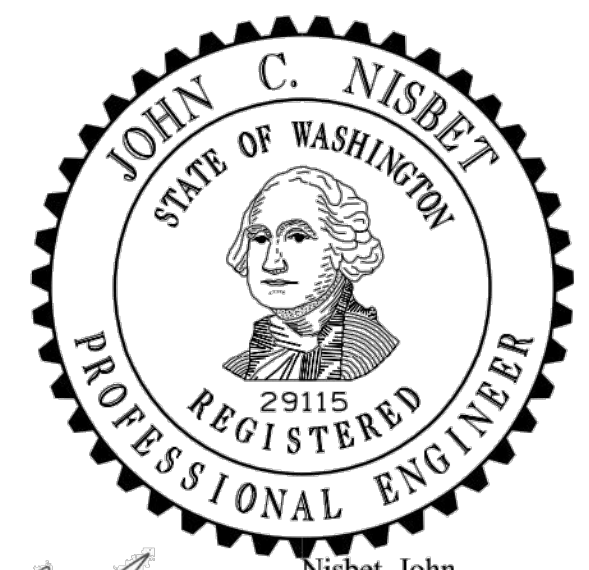
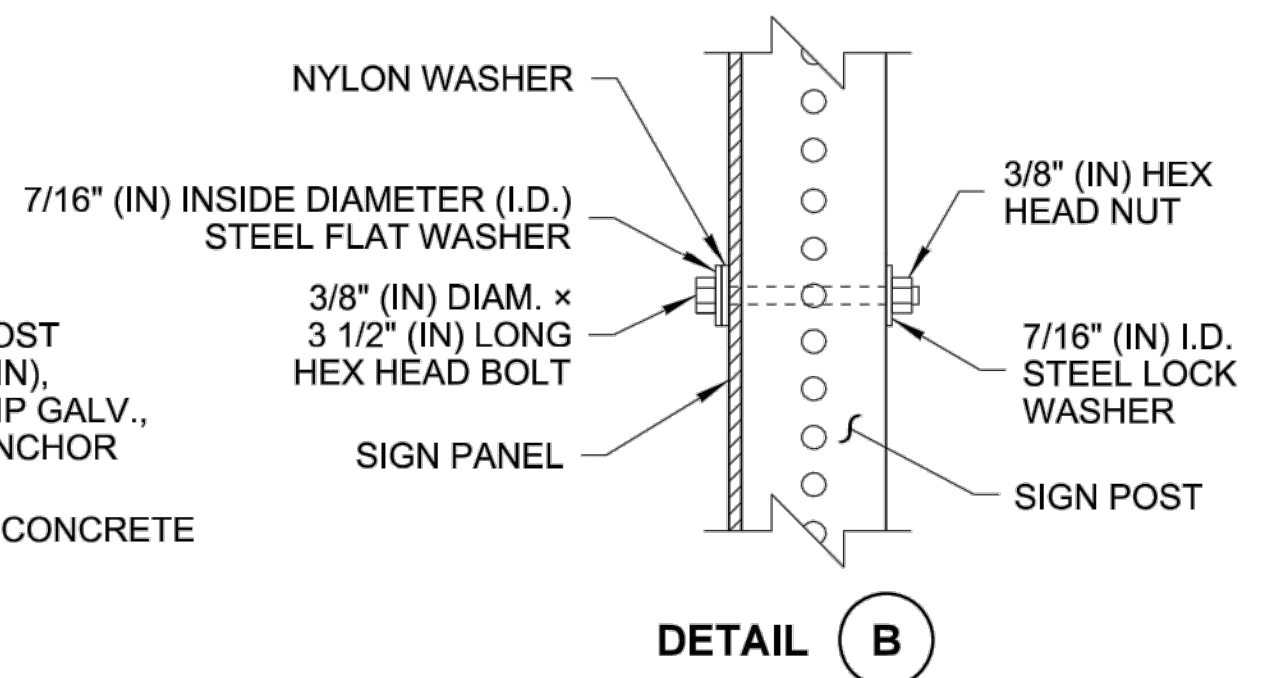
ELEVATION
TYPE ST-4 SIGN SUPPORT



TYPE ST-4

NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. For "H1", refer to the Sign Specification Sheet in the Contract.
3. A 2" (in) post with a 2 1/4" (in) PSST anchor or a 2 1/4" (in) post with a 2 1/2" (in) PSST anchor may be substituted. See Contract Plans.
4. Perforated square steel post shall meet the requirements of **Standard Specification, Section 9-06**.
5. Use only base connection manufacturer supplied hardware that meets the requirements of **Standard Specification, Sections 9-06 and 9-28**.



**STEEL SIGN SUPPORT
TYPES ST-1 - ST-4
INSTALLATION DETAILS
STANDARD PLAN G-24.50-05**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve
Aug 7 2019 11:54 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	SWR	2/4/2020
DRAWN	TB	2/4/2020
CHECKED (FIELD)		
CHECKED (HDQTS.)		



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WILLAPA HILLS
STATE PARK TRAIL

MENLO TRAILHEAD

SIGN POST DETAIL

SCALE
NTS