

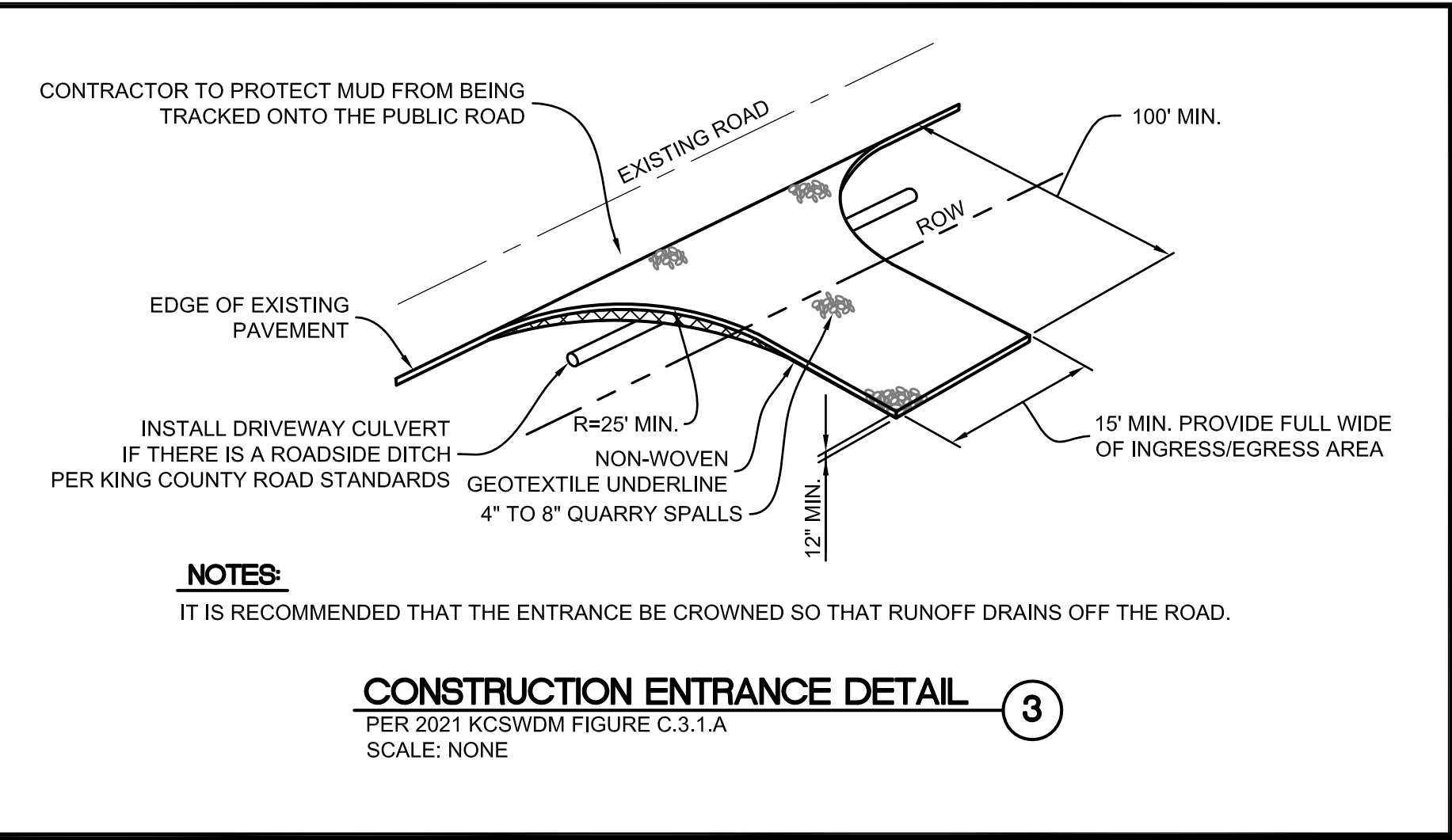
**GENERAL NOTE:**  
 1. STOCKPILE WILL BE REMOVED PRIOR TO PERMIT SIGN OFF.

**EARTHWORK VOLUME ESTIMATES:**

LOCATION	CUT (CY)	FILL (CY)
ONSITE & OFFSITE	30	30

**LEGEND**

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- RIGHT OF WAY LINE
- - - RIGHT OF WAY CENTERLINE
- ⊗ INLET PROTECTION

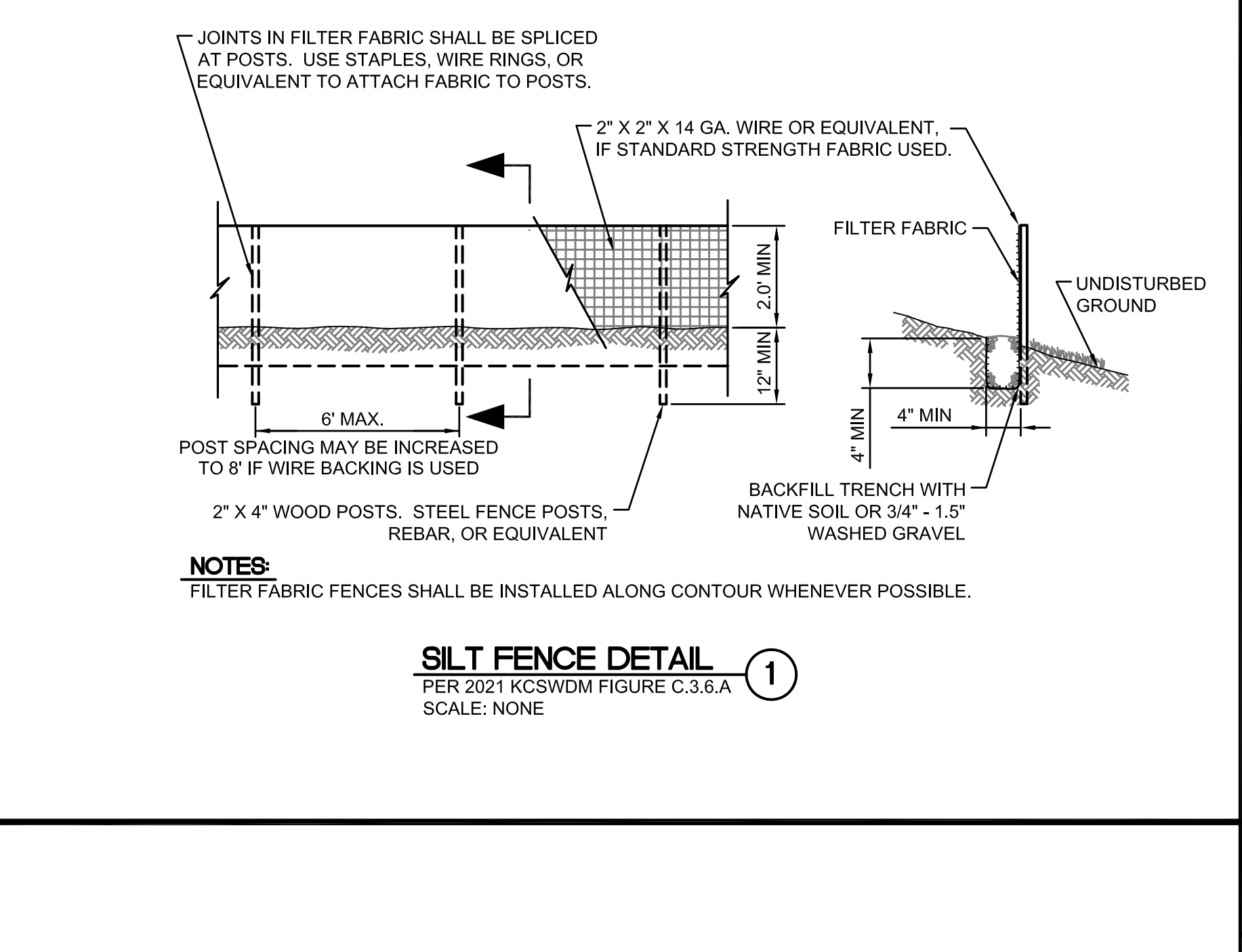


**MAINTENANCE STANDARDS:**

- ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
- REGULAR MAINTENANCE IS CRITICAL FOR CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.
- ANY ACCUMULATED SEDIMENT ON OR AROUND INLET PROTECTION SHALL BE REMOVE IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.

**INLET PROTECTION DETAIL 2**  
 PER 2021 KCSWDM FIGURE C.3.9.B  
 SCALE: NONE

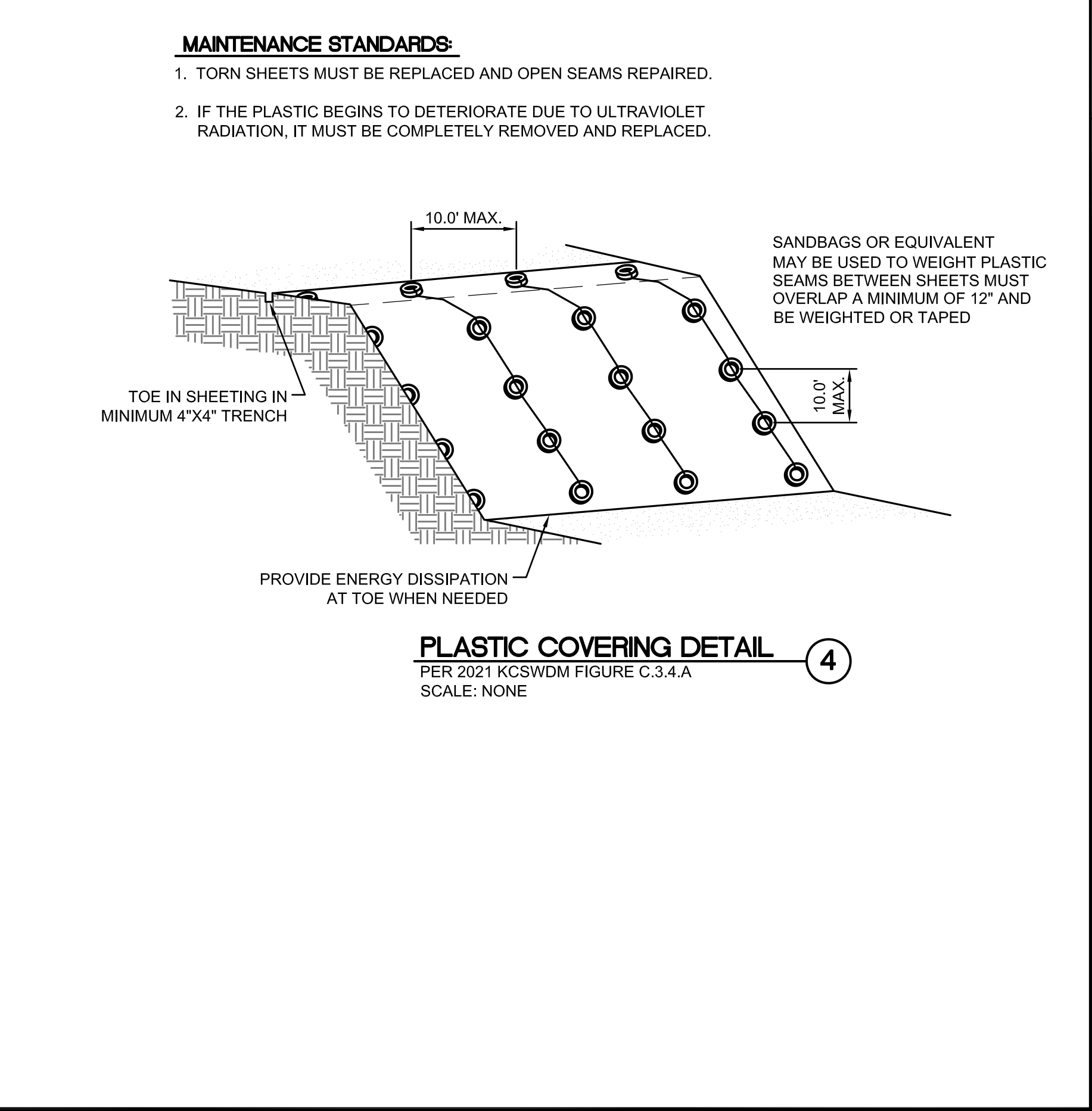
**NOTES:**  
 THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN. 0.5 CUBIC FEET OF STORAGE WITH THE MEANS TO DEWATER THE STORED SEDIMENT, PROVIDE AN OVERFLOW, AND CAN BE EASILY MAINTAINED.



**MAINTENANCE STANDARDS:**

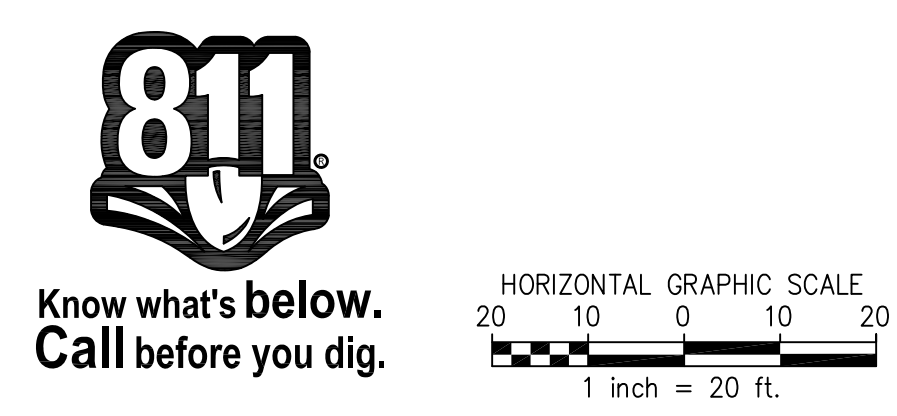
- TORN SHEETS MUST BE REPLACED AND OPEN SEAMS REPAIRED.
- IF THE PLASTIC BEGINS TO DETERIORATE DUE TO ULTRAVIOLET RADIATION, IT MUST BE COMPLETELY REMOVED AND REPLACED.

**PLASTIC COVERING DETAIL 4**  
 PER 2021 KCSWDM FIGURE C.3.4.A  
 SCALE: NONE



REFERENCE SHEET NO.	C2	SHEET 2 OF 7 SHEETS
<b>KHAIRA SHORT PLAT</b> <b>3006 S 148TH STREET</b> <b>SEATAC, WA 98168</b>		
<b>PBC</b> Land Development and Civil Engineering Consultants 5130 South 166th Lane Seatac, WA 98188 T (206) 229-6422		
ISSUE DATE	6-10-2023	
JOB NO.	R22610	
DESIGNED BY:	L. PHAN	
DRAWN BY:	L. PHAN	
CHECKED BY:	H. H. PHAN	
PROJ. MNGR:	H. H. PHAN	
NO.	DATE	REVISION DESCRIPTION

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**PLANT SCHEDULE**

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	SIZE
	PRUNUS CERASIFERA "THUNDERCLOUD"	PURPLE-LEAFED PLUM	14	2" CAL. (MIN.)

**CONSTRUCTION NOTES:**

- 1 INSTALL CB #1 - TYPE 1 WITH VANED GRATE STA 10+82 (22' LT) RIM=416.45 IE (W)=413.07 IE (N)=413.07 IE (E)=412.97
- 2 INSTALL CB #2 - TYPE 1 WITH VANED GRATE STA 11+18 (22' LT) RIM=414.90 IE (W)=412.74 IE (E)=412.64
- 3 INSTALL CB #3-TYPE 2 (48") WITH SOLID LOCKING LID STA 51+09 (19.5' LT) RIM=420.00 IE (N)=413.70 IE (S)=413.50 IE (W)=415.70
- 4 INSTALL CB #4 - TYPE 1 WITH SOLID LID STA 52+07 (18.3' LT) RIM=416.00 IE (N)=414.17 IE (S)=414.17
- 5 CONSTRUCT HAMMERHEAD TURNAROUND POROUS ASPHALT PAVEMENT PER TYPICAL SECTION C-C ON SHEET C4
- 6 INSTALL 6 LF 6" ADS N12 SD STUB @ 2.00% DEEP=3'
- 7 INSTALL 68 LF 6" ADS N12 SD @ 0.50%
- 8 INSTALL 58 LF 6" PVC SIDE SEWER @ 2.00%
- 9 CONSTRUCT SHARED ACCESS ROAD POROUS ASPHALT PAVEMENT PER TYPICAL SECTION B-B ON SHEET C4
- 10 INSTALL 100 LF 6" PVC SIDE SEWER @ 2.00%
- 11 INSTALL 100 LF 6" PVC SIDE SEWER @ 2.00%
- 12 INSTALL 94 LF 6" ADS N12 SD @ 0.50%
- 13 INSTALL 6 LF 6" ADS N12 SD STUB @ 2.00% DEEP=4'
- 14 INSTALL 89 LF 6" PVC SIDE SEWER @ 2.00%
- 15 INSTALL 87 LF 6" ADS N12 SD @ 0.50%
- 16 INSTALL 1" WATER SERVICE LINE (POLYETHYLENE PIPE SDR 7) FOR EACH LOT
- 17 INSTALL 6 LF 6" ADS N12 SD STUB @ 2.00% DEEP=4'
- 18 SAWCUT & CONSTRUCT FRONTAGE PER TYPICAL SECTION A-A ON SHEET C4
- 19 INSTALL 84 LF 12" DI SD @ 2.50%
- 20 INSTALL 33 LF 12" DI SD @ 1.00%
- 21 INSTALL 34 LF 6" PVC SIDE SEWER STUB @ 2.00%
- 22 SAWCUT & PAVEMENT RESTORATION PER DETAIL 4 ON SHEET C4
- 23 CONNECT TO EX. 8" SEWER MAIN TEE 6" BRANCH IE=404.00 (FIELD VERIFY) PER VALLEY VIEW SEWER DISTRICT DETAIL 13
- 24 REMOVE, RECONSTRUCT & WIDENING SIDEWALK AROUND NEW MAILBOXES
- 25 INSTALL LOCKING MAILBOX OWNER TO LOOK INTO CITY OF SEATAC'S LOCKING MAILBOX PROGRAM SEE STANDARD DETAILS ON SHEET C5
- 26 NEW 1" WATER METER FOR EACH LOT (BY WATER DISTRICT #125)
- 27 EX. CB WITH VANED GRATE STA 9+95.62 (22' LT) EX. RIM=416.85 EX. IE (N)=415.20 EX. IE (E)=415.20
- 28 CEMENT CONC. VERTICAL CURB & GUTTER PER DETAIL 2 ON SHEET C4
- 29 PROTECT & ADJUST EX. FIRE HYDRANT & POSTS
- 30 STA 11+00 (19' LT) 20' WIDE DRIVEWAY APPROACH PER DETAIL 3 ON SHEET C4
- 31 6" WIDE SIDEWALK 4" CEMENT CONCRETE (SIDEWALK) 6" CEMENT CONCRETE (DRIVEWAY APPROACH)
- 32 UTILITY TRENCH (POWER & COMM. CONDUITS) POWER TO BE DESIGNED BY SCL
- 33 RETIRE EX. WATER METER (BY WATER DISTRICT #125)
- 34 6" SSCO #1 IE=408.84
- 35 6" SSCO #2 IE=410.84
- 36 RELOCATE PEDESTRIAN SIGN

**LEGEND**

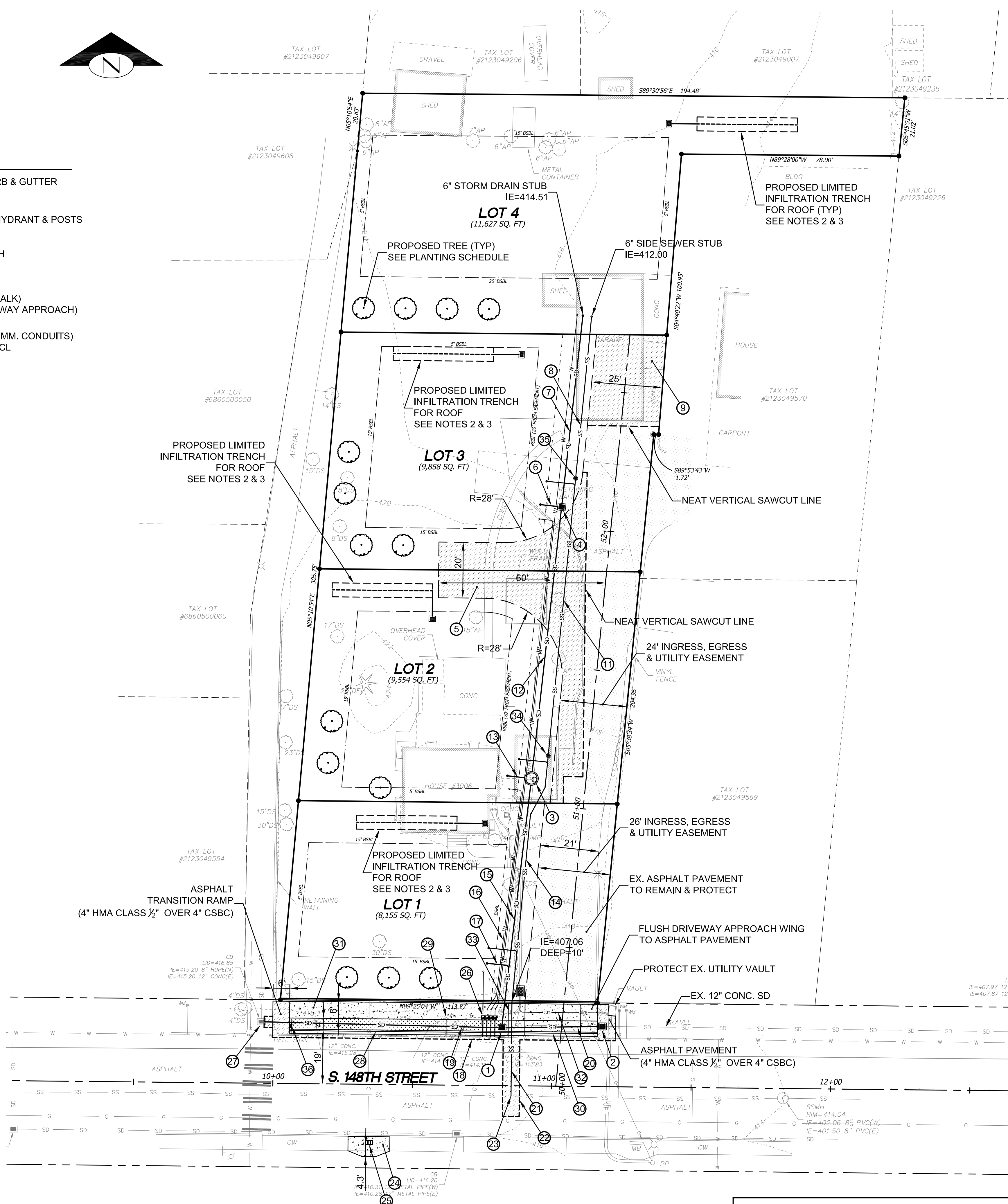
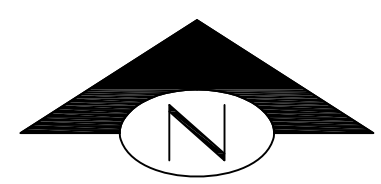
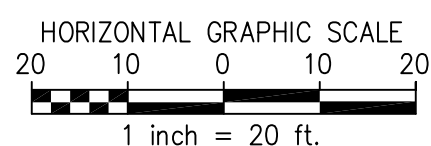
	PROPERTY LINE
	B.S.B.L.
	RIGHT OF WAY LINE
	RIGHT OF WAY CENTERLINE
	ADJACENT PROPERTY LINE
	PROPERTY CORNER
	PERVIOUS ASPHALT PAVEMENT
	ASPHALT PAVEMENT
	PERVIOUS ASPHALT PAVEMENT
	PLANTING AREA
	INFILTRATION TRENCH

**NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY ALL GRADES PRIOR TO CONSTRUCTION.
2. KEEP INFILTRATION TRENCH 5' MIN. FROM PROPERTY AND 15' MIN. FROM HOUSE FOUNDATION.
3. FINAL INFILTRATION TRENCH SIZE WILL BE DETERMINED AT BUILDING PERMIT APPLICATION BASED ON THE ACTUAL BUILDING FOOTPRINT.



Know what's below.  
Call before you dig.



UTILITY INSTALLATIONS ON THE RIGHT OF WAY WILL REQUIRED SEPARATE ROW PERMITS ACQUIRED THROUGH THE RELEVANT UTILITY

REFERENCE SHEET NO.	3	SHEET	3
		OF	7
		SHEETS	
KHAIRA SHORT PLAT 3006 S 148TH STREET SEATAC, WA 98168			
<b>ROADWAY/DRAINAGE/UTILITY PLAN AND DETAILS</b>			
<b>PBC</b> Land Development and Civil Engineering Consultants 5130 South 166th Lane Seatac, WA 98188 T (206) 229-6422			
ISSUE DATE	6-10-2023	DESIGNED BY:	L. PHAN
JOB NO.	R22610	DRAWN BY:	L. PHAN
		CHECKED BY:	H. H. PHAN
		PROJ. MNGR:	H. H. PHAN
NO.	DATE	BY	REVISION DESCRIPTION
1	XX-XX-21	HPH	XXX

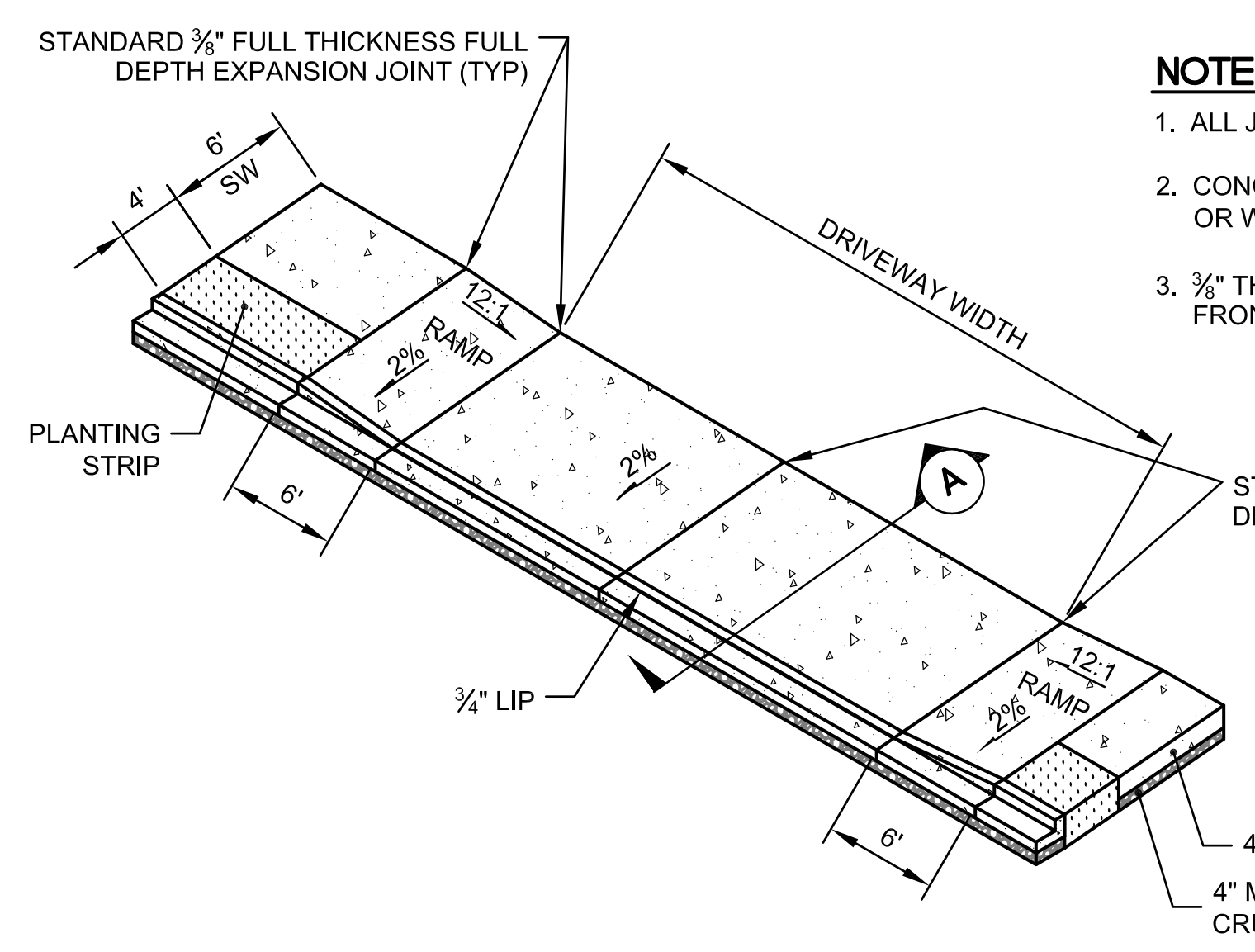
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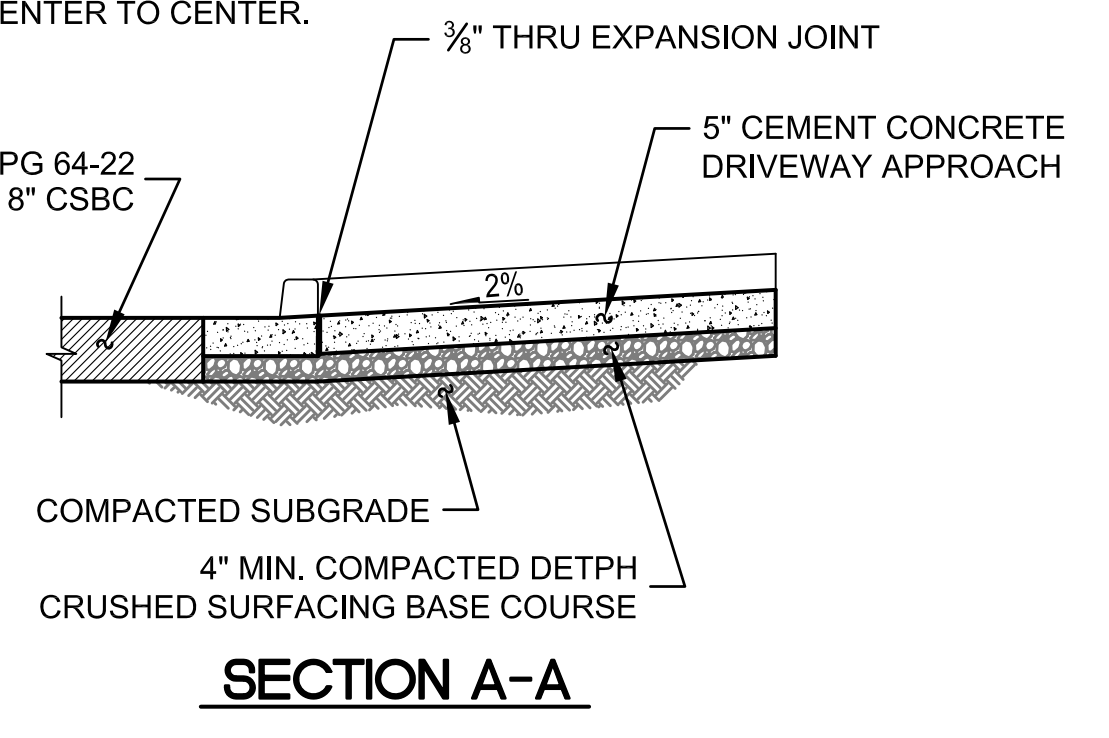
**PBC**  
Land Development and Civil Engineering Consultants  
5130 South 166th Lane  
Seatac, WA 98188  
T (206) 229-6422

ISSUE DATE	6-10-2023
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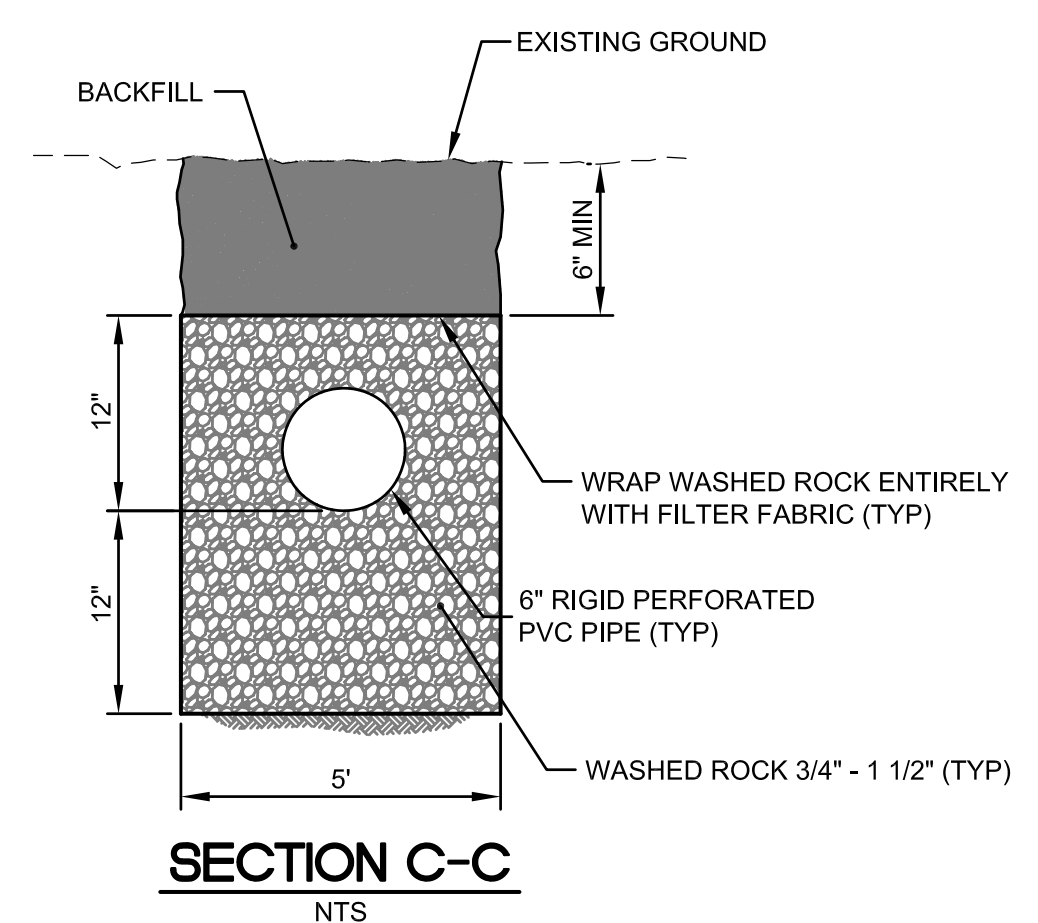
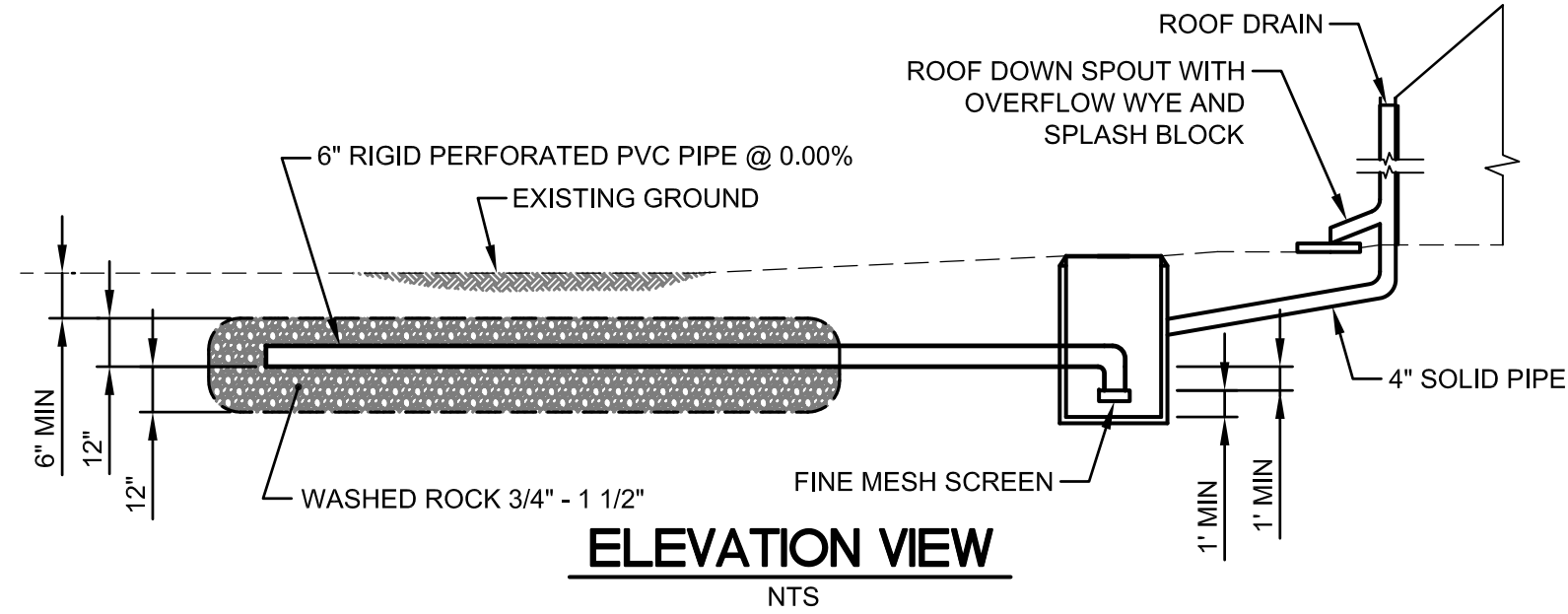
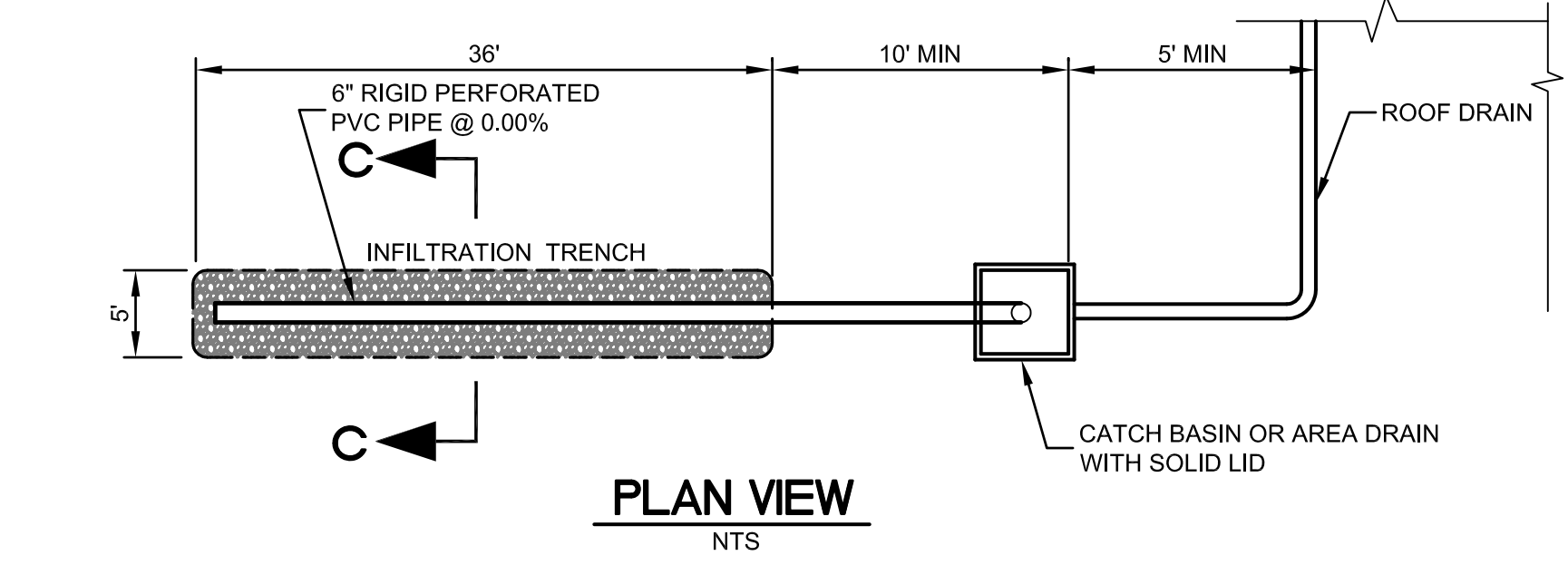
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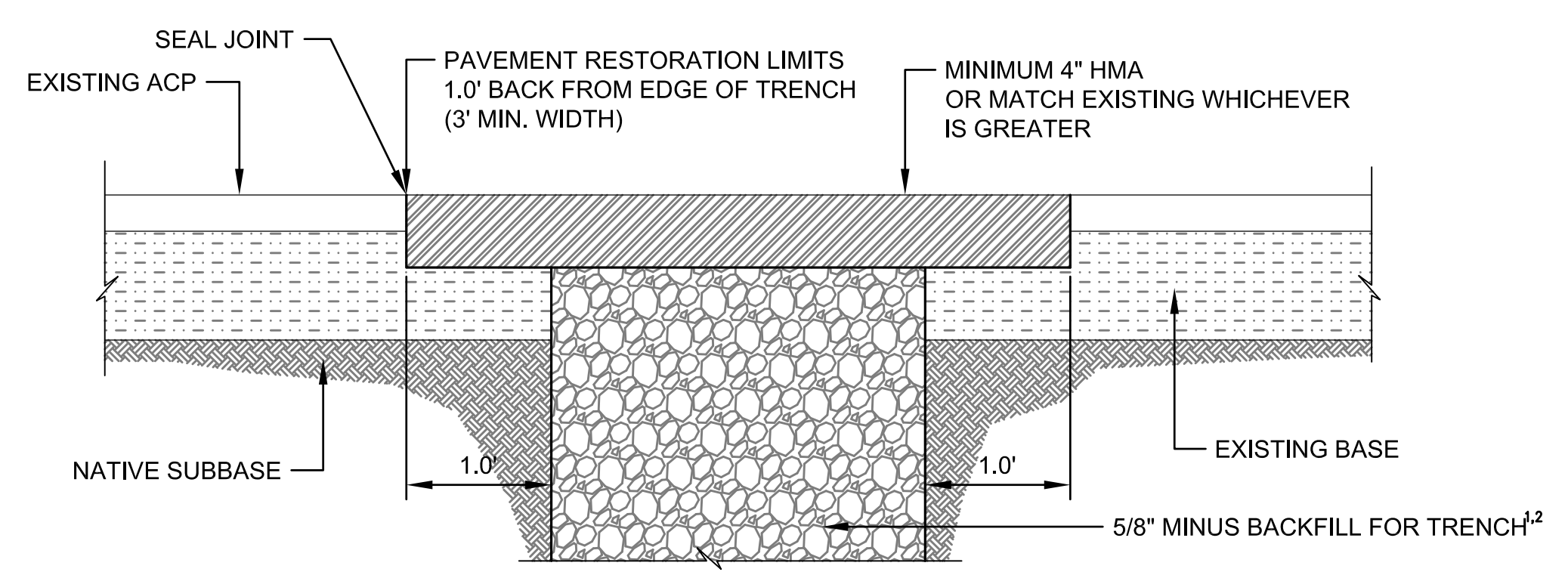
- NOTES:**
1. ALL JOINTS SHALL BE CLEANED AND EDGED.
  2. CONCRETE PAVEMENT SHALL BE BRUSHED TRANSVERSELY WITH A FIBER OR WIRE BRUSH OF A TYPE APPROVED BY THE ENGINEER.
  3. 3/8" THRU EXPANSION JOINTS SHALL BE PLACED AT BACK SIDE AND FRONT. MAXIMUM EXPANSION JOINT SPACING IS 14' CENTER TO CENTER.



**RESIDENTIAL DRIVEWAY APPROACH** ③  
PER 2016 KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS FIGURE 3-004  
SCALE: NONE



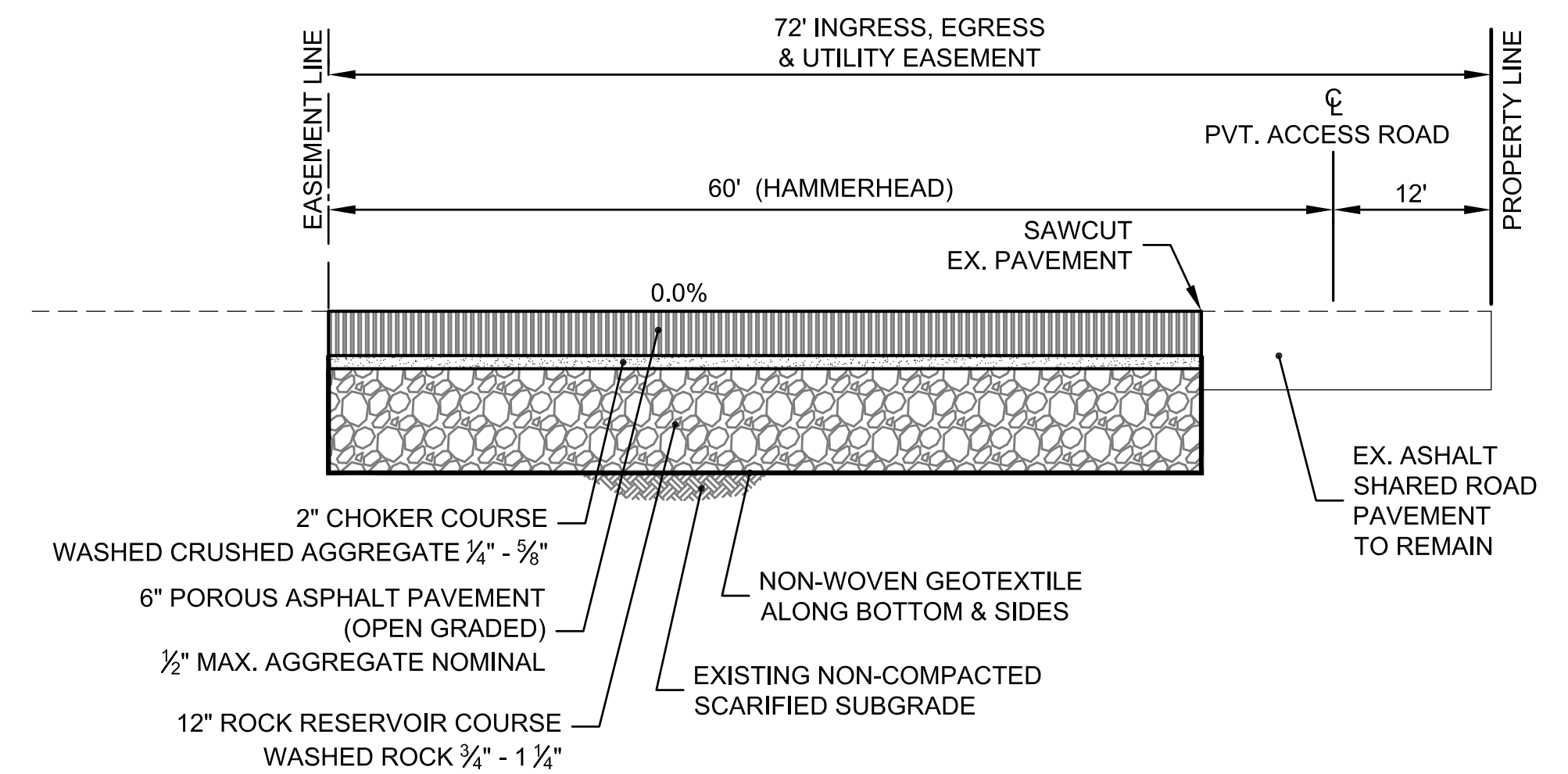
**ROOF INFILTRATION TRENCH DETAIL (LIMITED INFILTRATION TRENCH)** ①  
SCALE: NONE



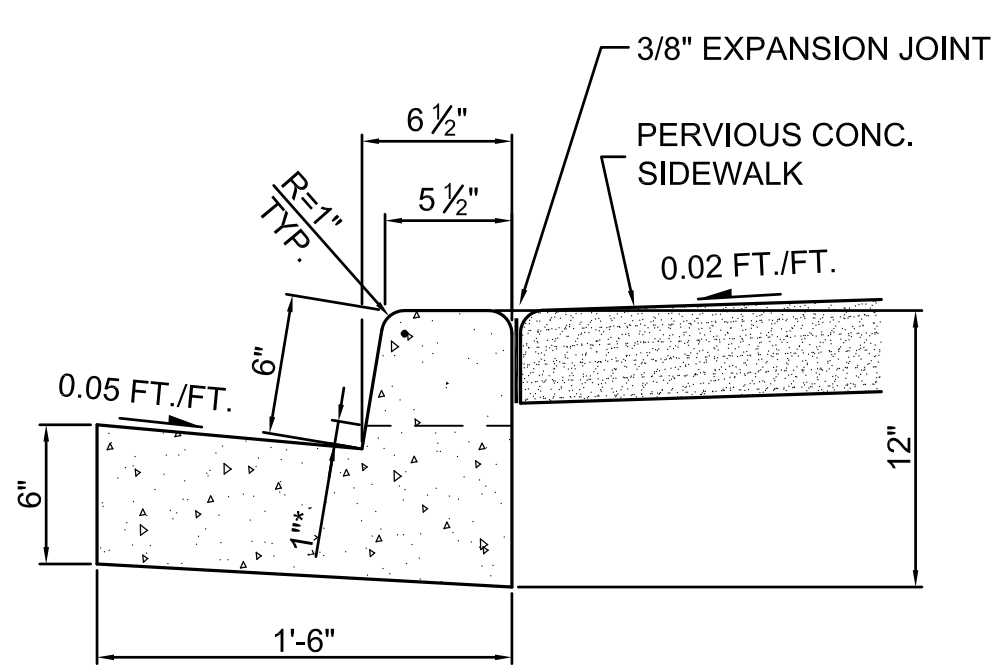
**ACP TRENCH RESTORATION**

- NOTES:**
1. FOR TRENCHES LESS THAN 18" WIDE, USE 1 1/4" CSBC WITH 95% COMPACTION.
  2. FOR TRENCHES GREATER THAN 18" WIDE, ALL BACKFILL IN RIGHT-OF-WAY SHALL BE MIN. 3/8" CSTC.

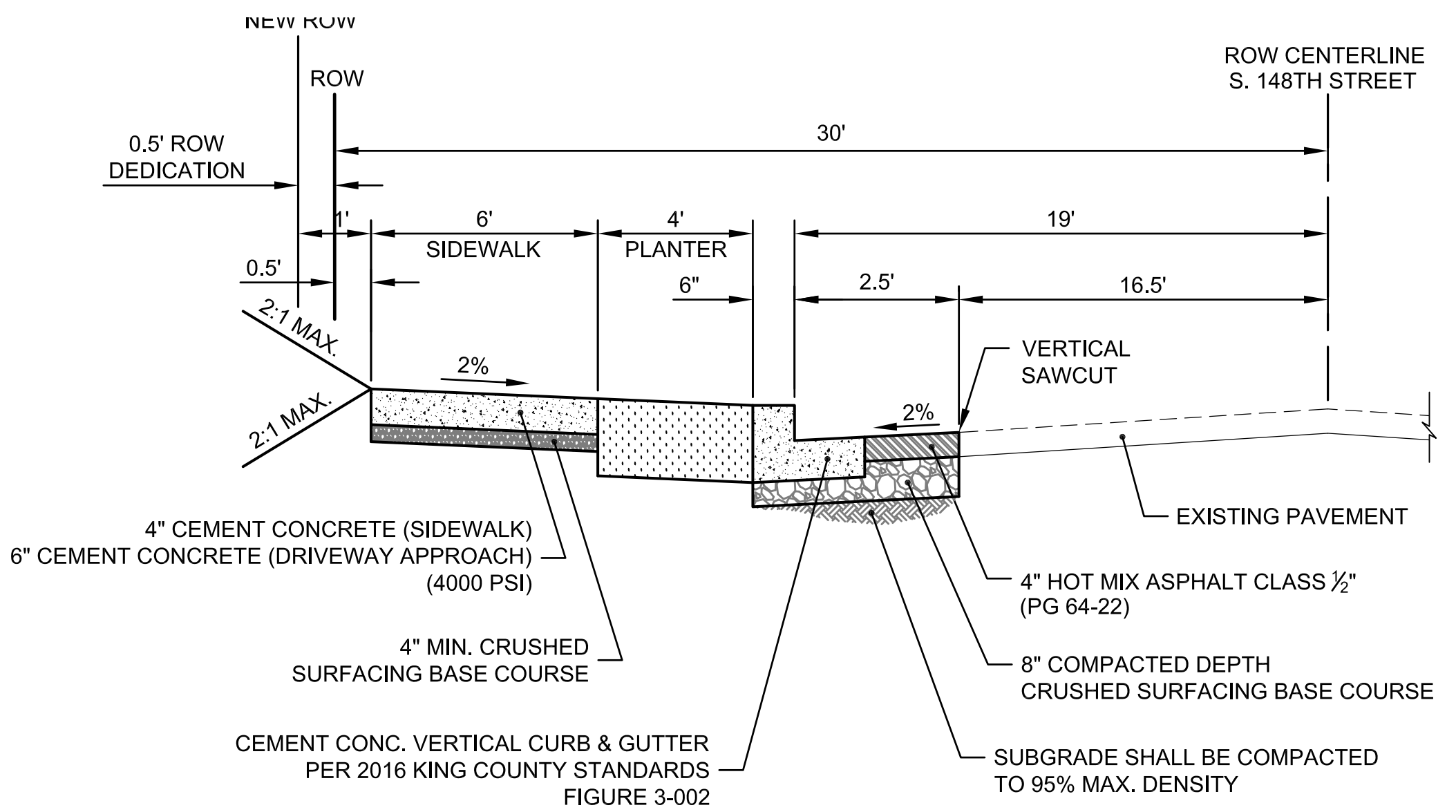
**TRENCH RESTORATION** ④  
SCALE: NONE



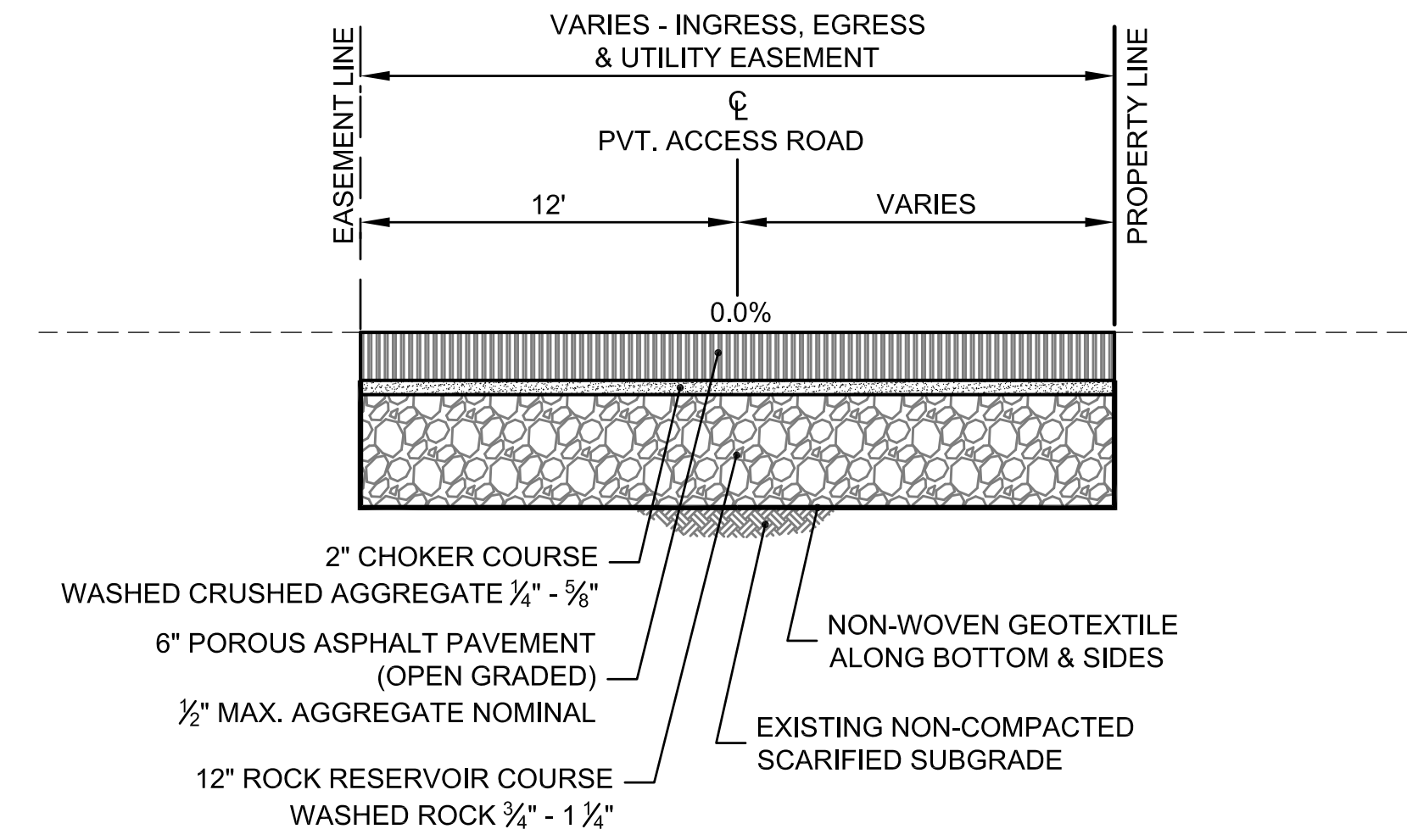
**PVT. ACCESS ROAD - SECTION C-C**  
SCALE: NONE



**CEMENT CONCRETE VERTICAL CURB AND GUTTER** ②  
PER 2016 KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS FIGURE 3-002  
SCALE: NONE



**S. 148TH STREET IMPROVEMENT SECTION A-A**  
SCALE: NONE

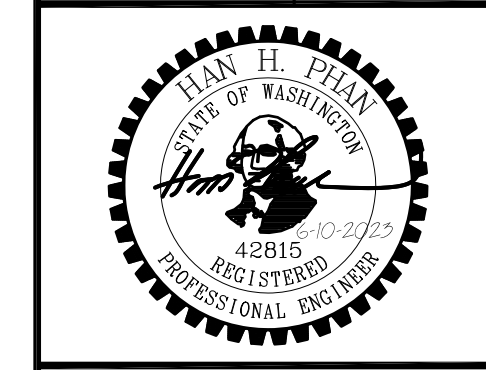


**PVT. ACCESS ROAD - SECTION B-B**  
SCALE: NONE

Jun 07, 2023 10:36am p:\gcn L:\Working\R22610 - 3006 S 148th Street (Khaira Short Plat)\CADD\Drawings\R22610-PS-C4.dwg Layout Name: Layout1

**KHAIRA SHORT PLAT**  
**3006 S 148TH STREET**  
**SEATAC, WA 98168**

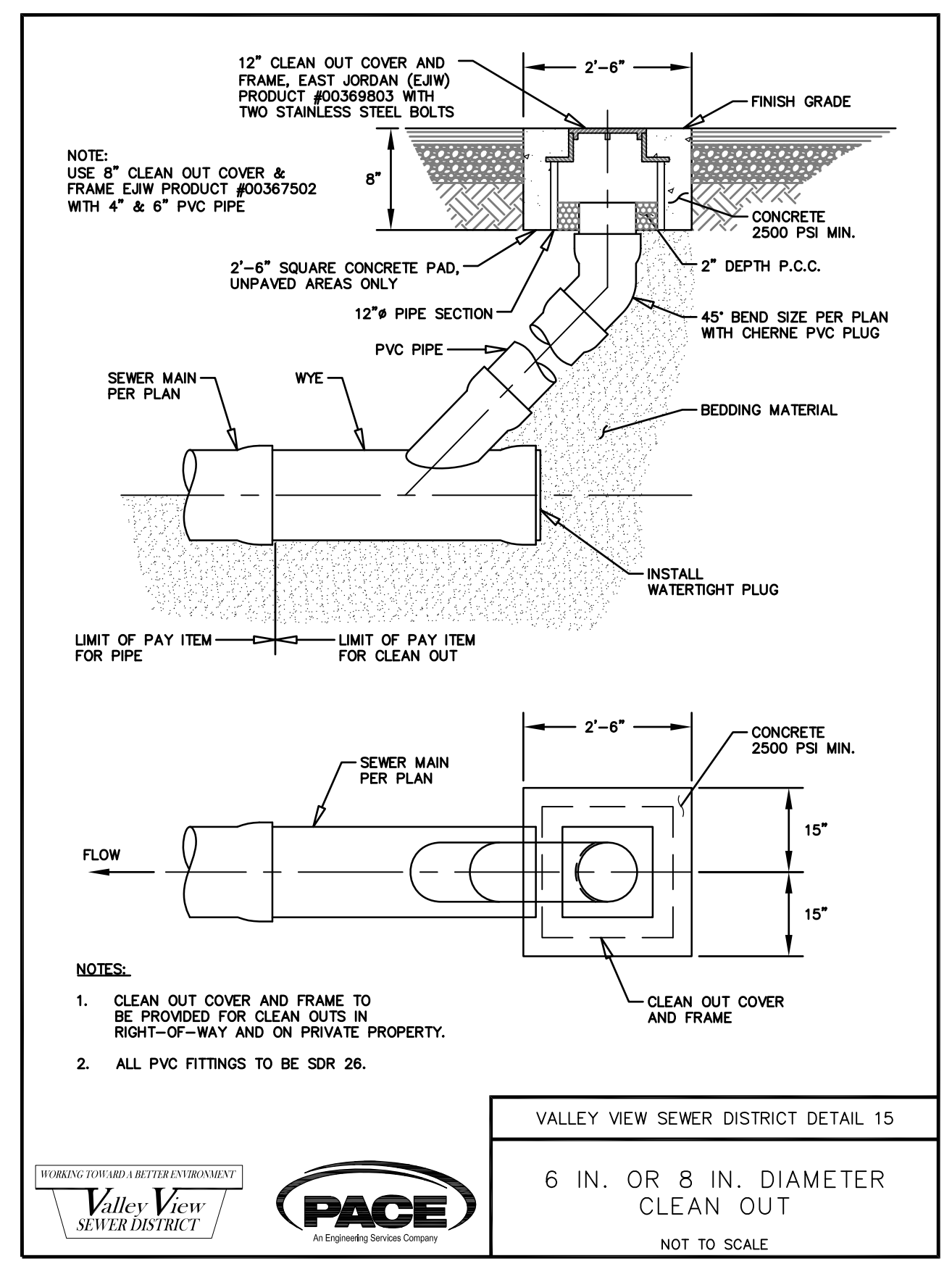
**STANDARD DETAILS**



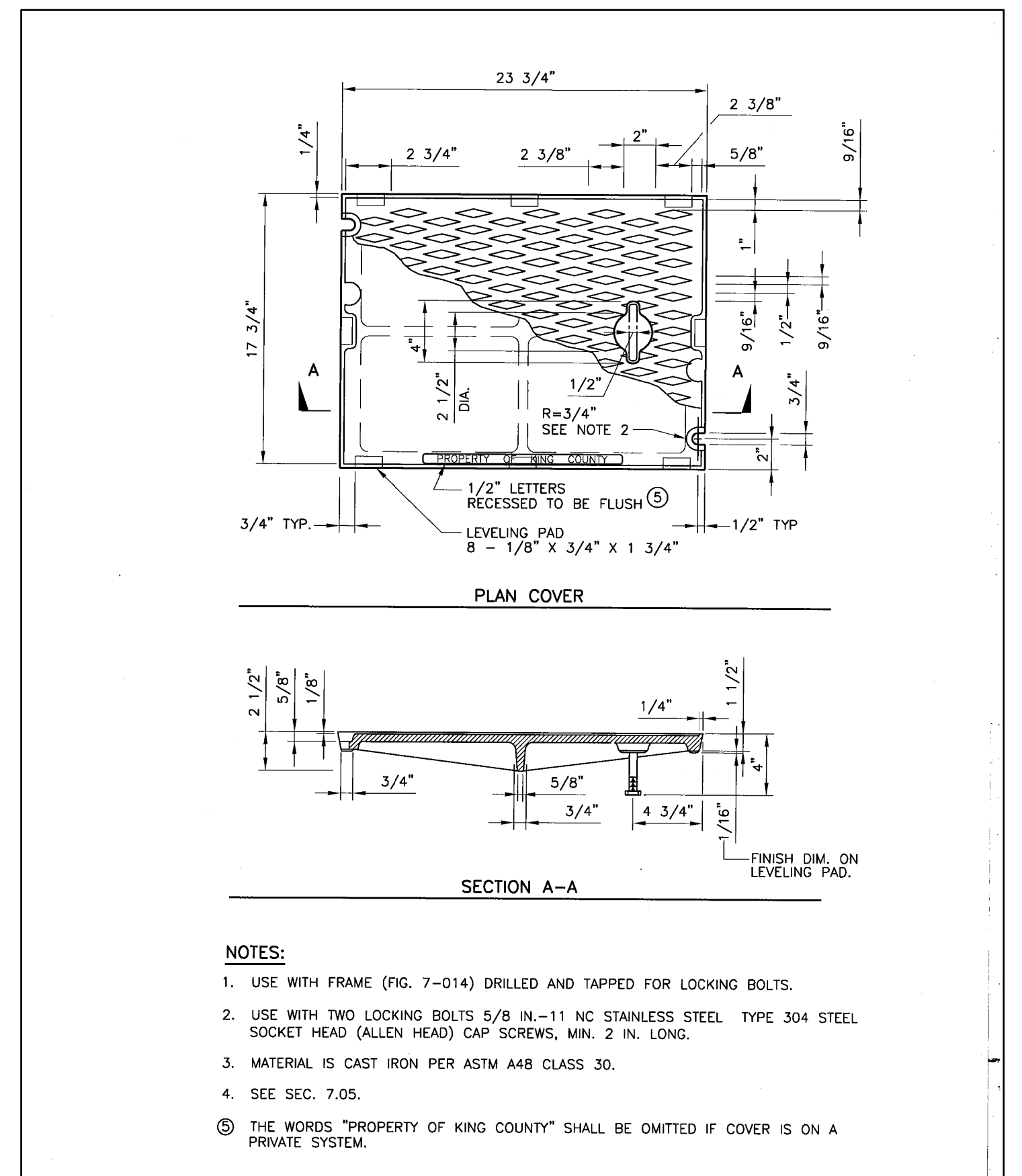
**PBC**  
 Land Development and Civil Engineering Consultants  
 5130 South 166th Lane  
 Seatac, WA 98188  
 T (206) 229-6422

ISSUE DATE: **6-10-2023**  
 JOB NO.: **R22610**  
 DESIGNED BY: **L. PHAN**  
 DRAWN BY: **L. PHAN**  
 CHECKED BY: **H. H. PHAN**  
 PROJ. MNGR.: **H. H. PHAN**

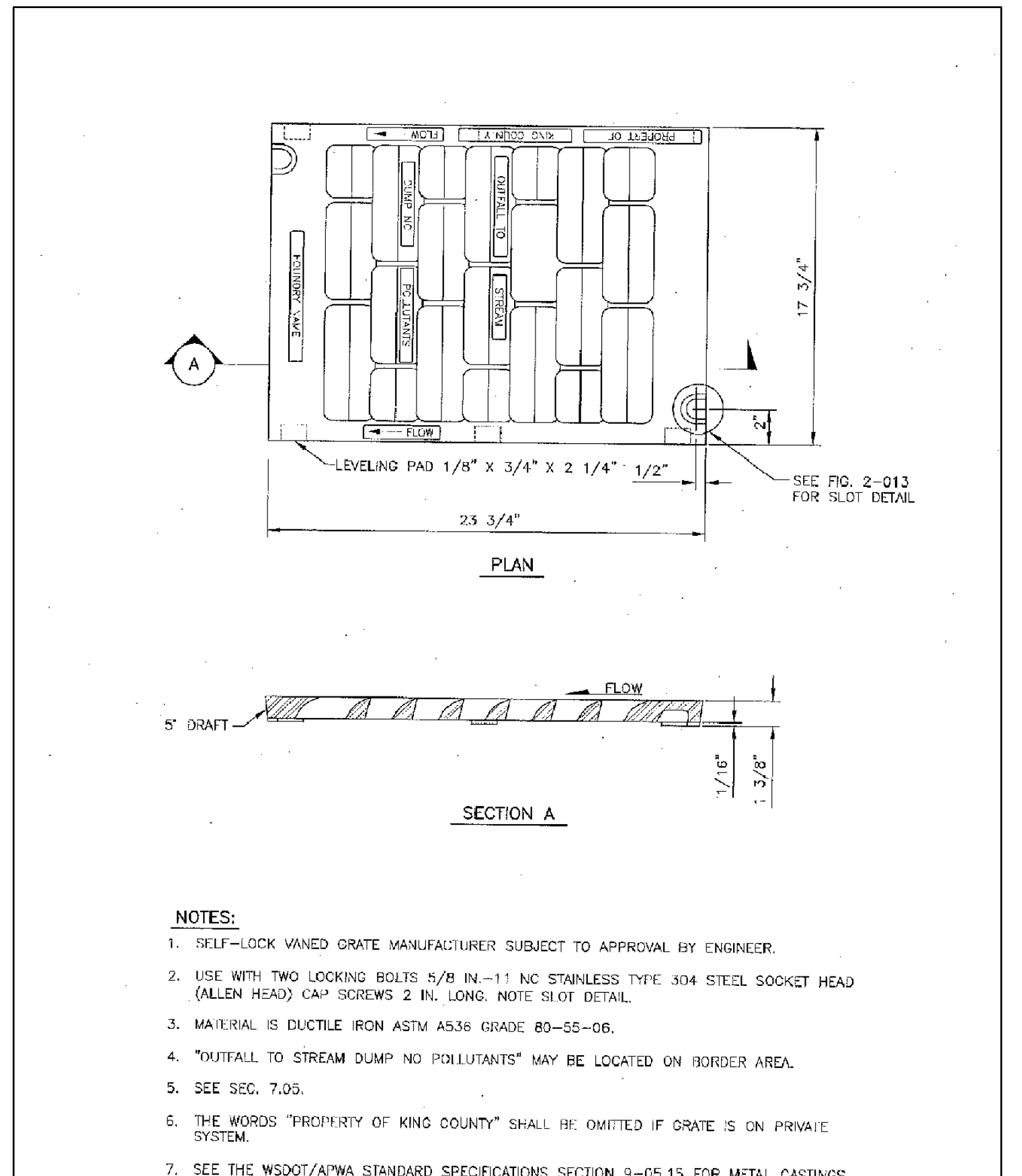
NO.	DATE	BY	REVISION DESCRIPTION



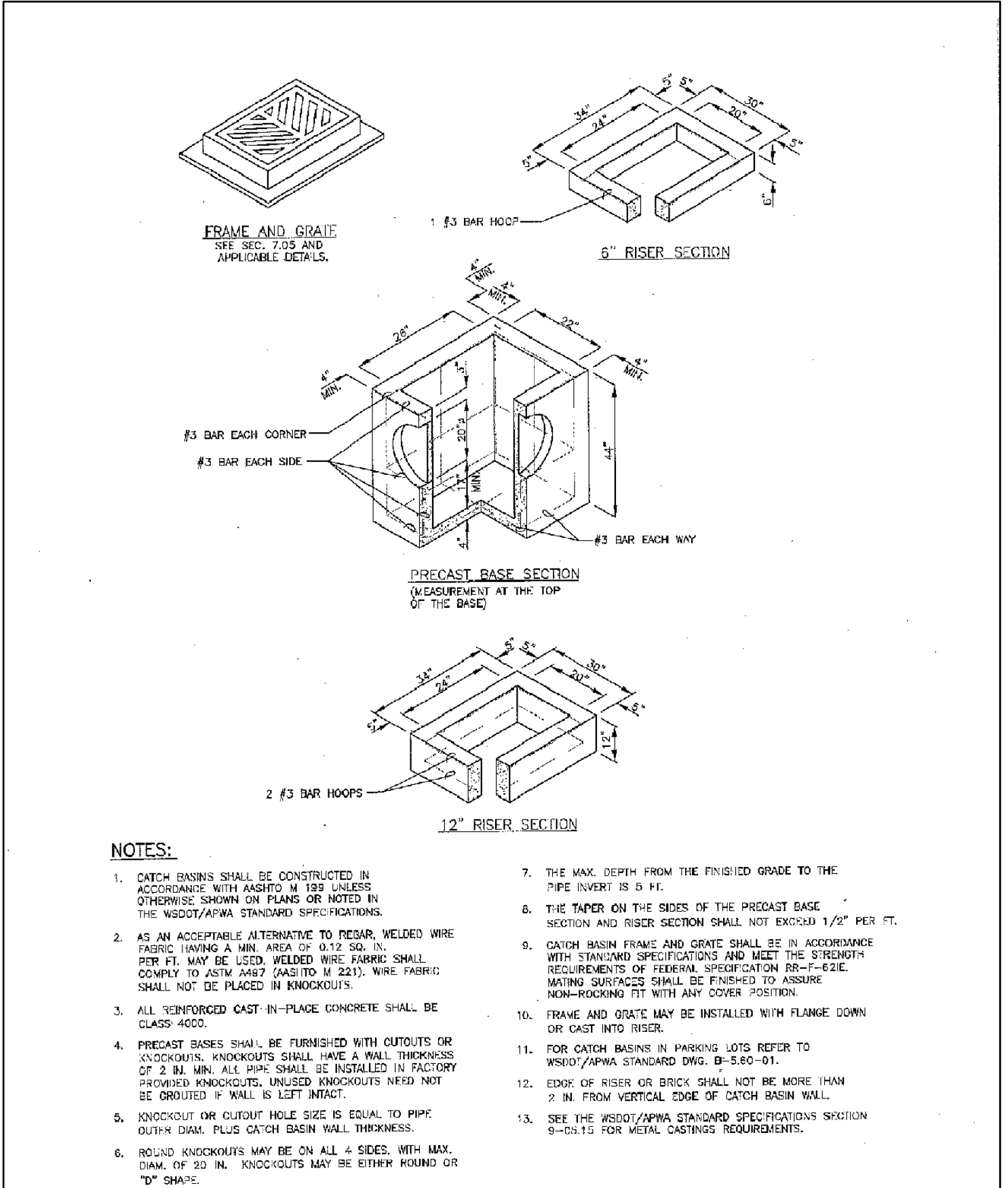
Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



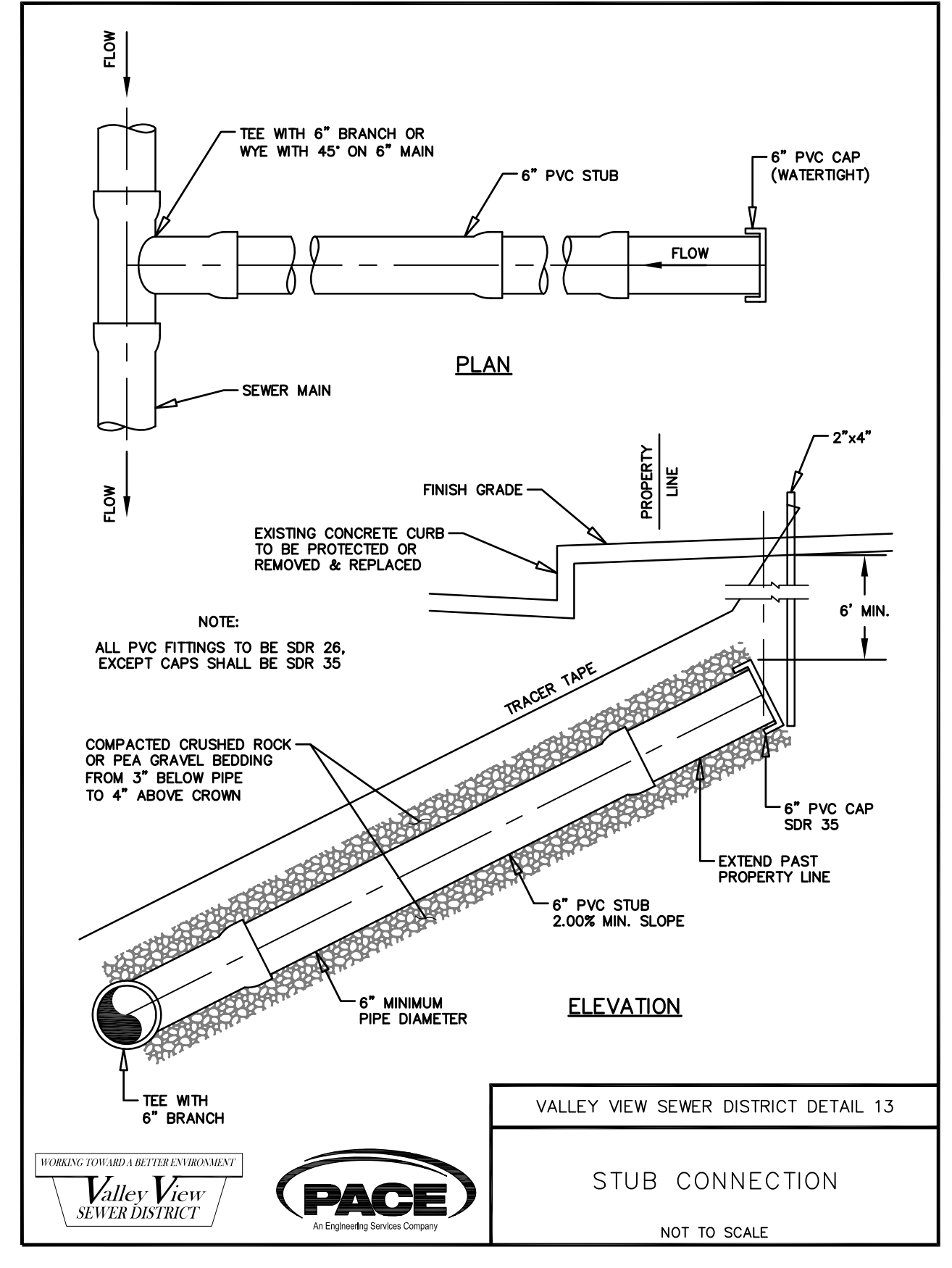
Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



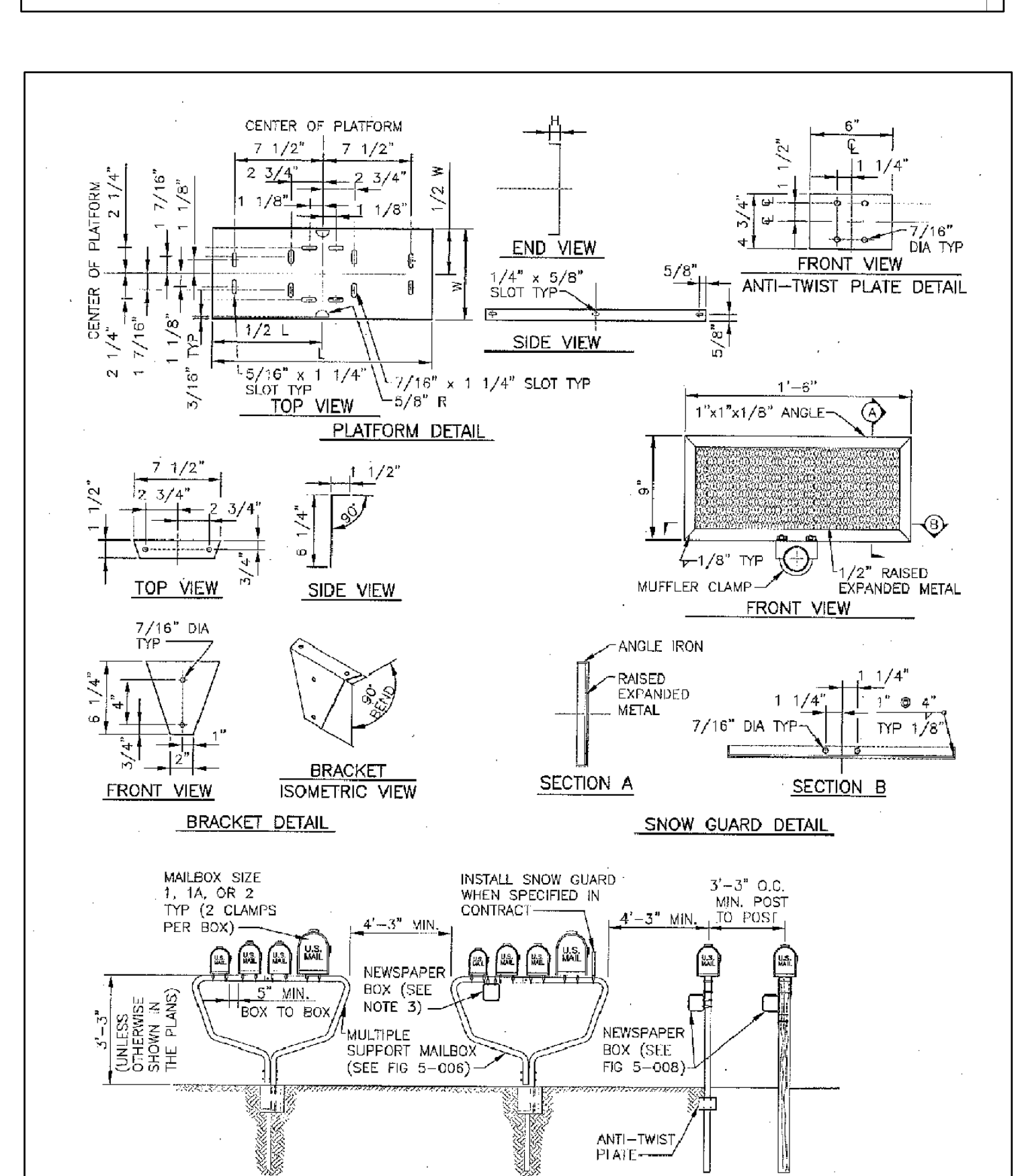
Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



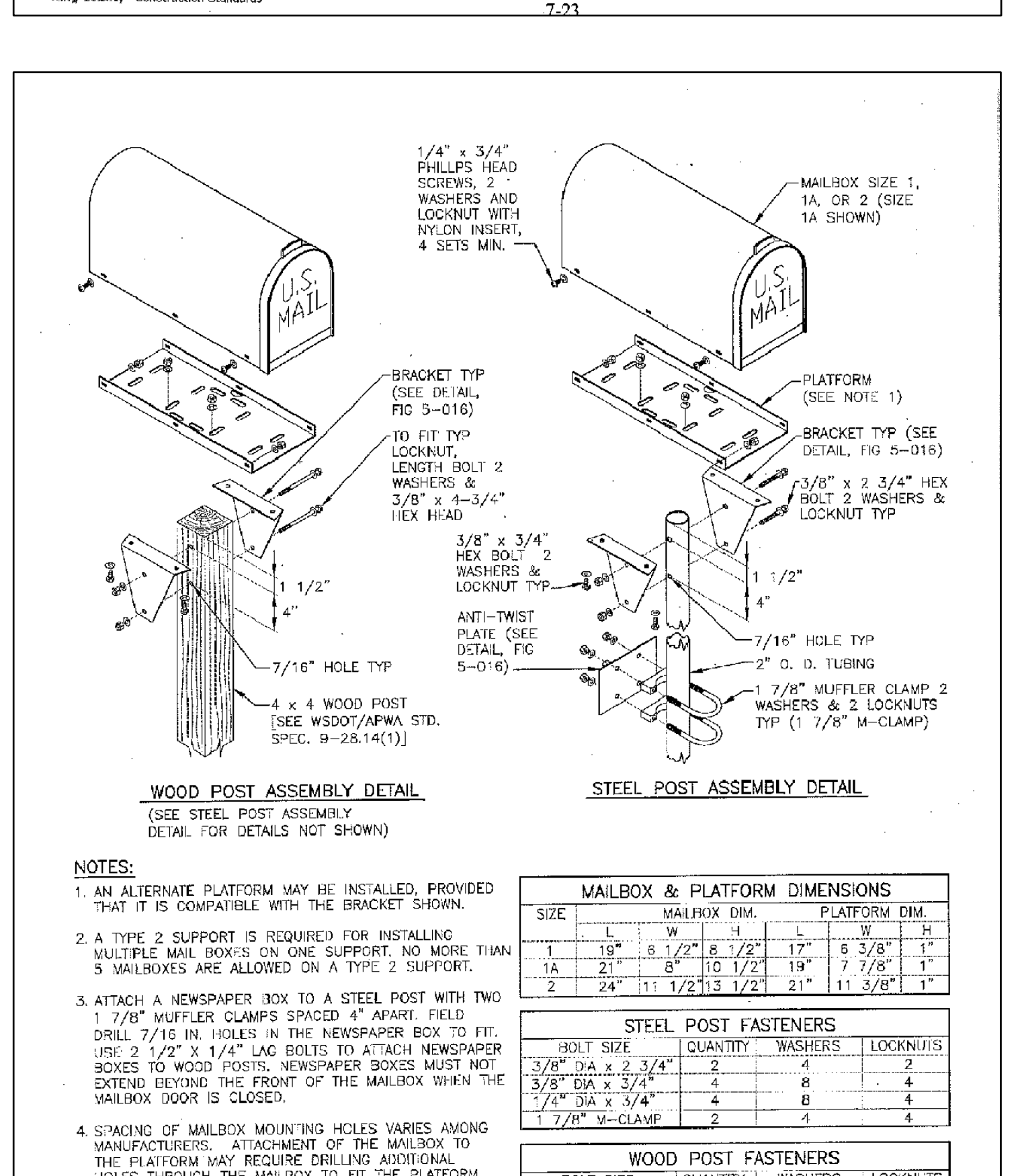
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 Road Service Division  
 2016 Design and Construction Standards



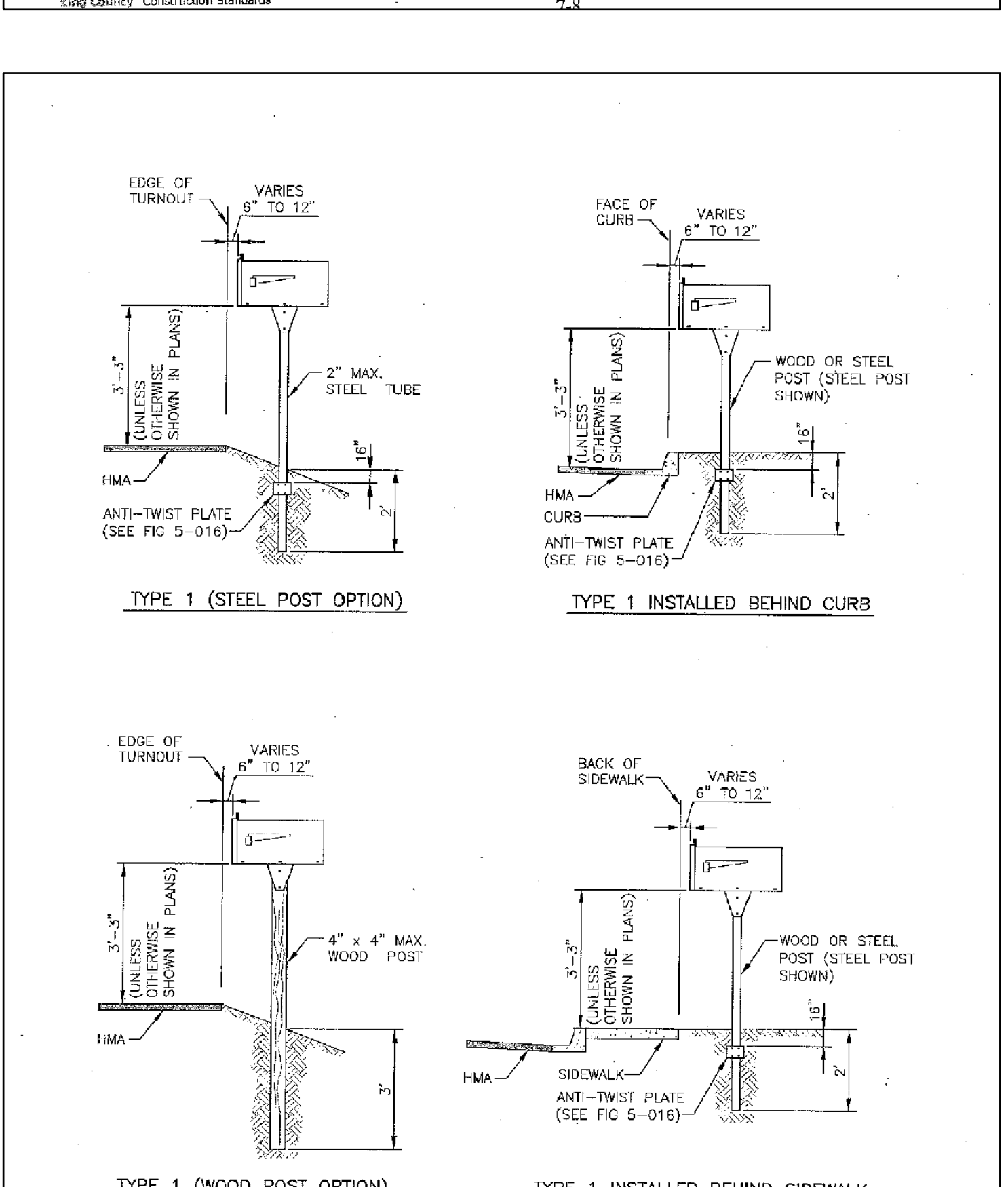
Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



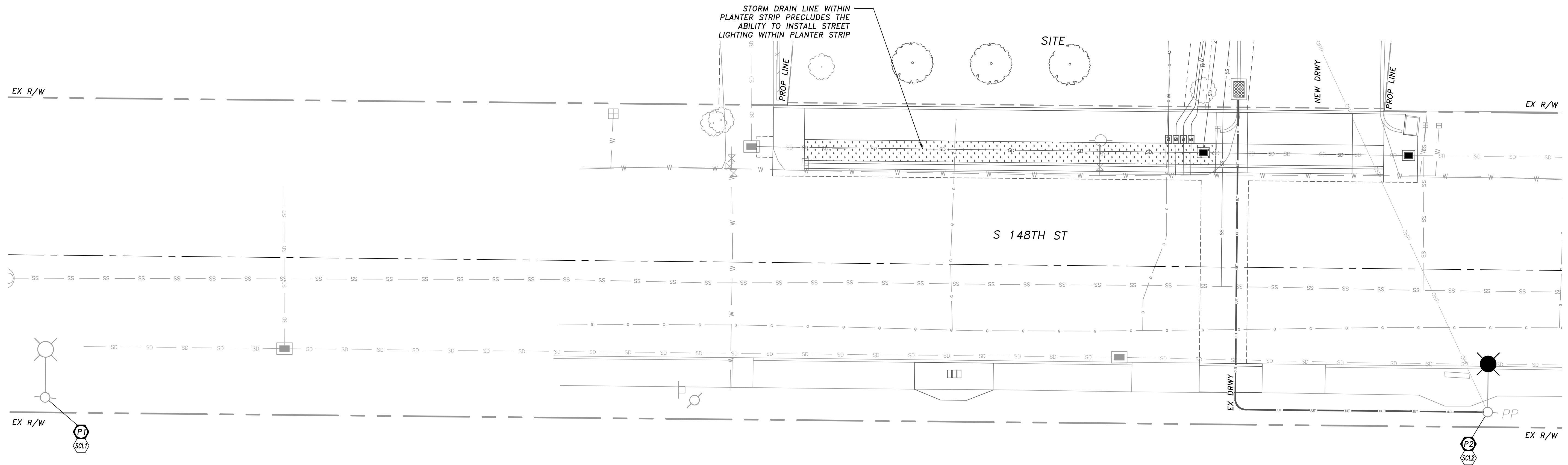
Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards



Department of Transportation  
 Road Service Division  
 2016 Design and Construction Standards

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# SECTION 21, TOWNSHIP 23 NORTH, RANGE 4 E., W.M.



### SCL STREET LIGHTING SCOPE OF WORK

#### ILLUMINATION POLE SCHEDULE (INSTALLED BY SCL STREET LIGHTING)

LUM. POLE NO.	STREET	STATION	OFFSET	MOUNTING HEIGHT	ARM LENGTH	WATTAGE	LUMINAIRE TYPE	INITIAL LUMENS	COMMENT
P1	S 148TH ST	EX	EX	EX 27'	EX 6'	EX 53W LED	EX CREE LEDWAY	EX	EXISTING UTILITY POLE. PROTECT DURING CONSTRUCTION.
P2	S 148TH ST	EX	EX	EX 30'	EX 6'	131W LED	LEOTEK GC1-80F-MV-NW-2-GY-1A-WL-PCR7	14,200	EXISTING UTILITY POLE. SCL SHALL REPLACE LUMINAIRE.

#### SCL STREET LIGHTING CONSTRUCTION NOTE

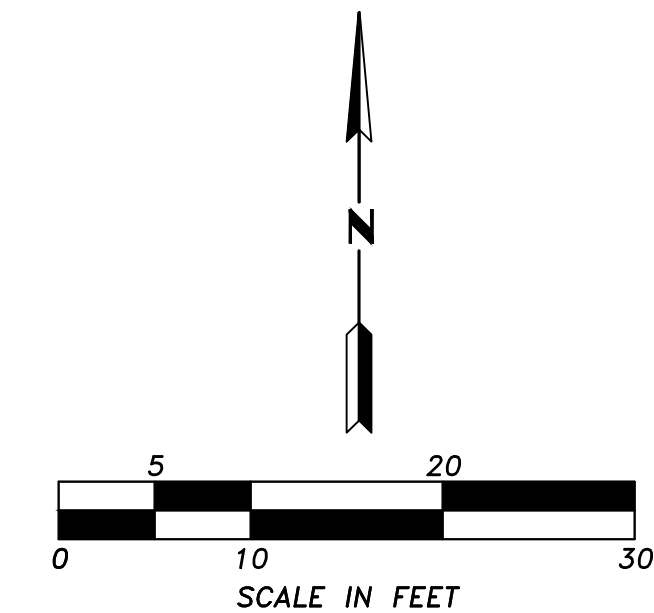
- (SCL1) EXISTING UTILITY POLE MOUNTED LUMINAIRE TO REMAIN. PROTECT DURING CONSTRUCTION.
- (SCL2) UTILITY POLE MOUNTED LUMINAIRE TO BE REPLACED BY SCL STREET LIGHTING PER ILLUMINATION POLE SCHEDULE, THIS SHEET.

#### SCL STREET LIGHTING GENERAL NOTE

1. PROJECT CONTRACTOR SHALL COORDINATE WITH SCL STREET LIGHTING TO SCHEDULE INSTALLATION, INCLUDING COMPLETING ALL FORMS, PAYMENT OF ALL FEES, ETC. ASSOCIATED WITH THE INSTALLATION. A SCL STREET LIGHTING WORK SKETCH IS REQUIRED TO BE INCLUDED IN THIS DOCUMENT PACKAGE PRIOR TO COORDINATED CIVIL DOCUMENT APPROVAL. SCL STREET LIGHTING SHALL FURNISH AND INSTALL ALL MATERIALS BY CONTRACT WITH THE DEVELOPER.

#### ILLUMINATION GENERAL NOTES

1. ALL WORK MATERIALS SHALL BE IN CONFORMANCE WITH THE STANDARDS AND SPECIFICATIONS OF CITY OF SEATAC AND THE LATEST EDITION OF THE WSDOT STANDARDS AND SPECIFICATIONS. A SET OF APPROVED PLANS SHALL BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION.
2. THE JUNCTION BOX AND CONDUIT LOCATIONS SHOWN ARE APPROXIMATE. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF SIDEWALKS UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
3. THE LOCATIONS OF FEATURES AND UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
4. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
5. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND CITY OF SEATAC IMMEDIATELY UPON DAMAGE.
7. AS PART OF THE DESIGN PROCESS, THE ENGINEER HAS ATTEMPTED TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH OVERHEAD POWER LINES OR SUBSURFACE UTILITIES. HOWEVER, IT IS POSSIBLE FOR THE EXISTING OR PROPOSED CONDITIONS TO CHANGE PRIOR TO IMPLEMENTATION OF THE SCOPE OF WORK IDENTIFIED ON THESE DOCUMENTS. AS THE FIRST ORDER OF BUSINESS, THE CONTRACTOR SHALL CONFIRM THAT THERE ARE NOT CONFLICTS WITH SUBSURFACE UTILITIES. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THAT THERE IS A MINIMUM 10-FT CLEARANCE PROVIDED BETWEEN OVERHEAD POWER LINES AND THE PROPOSED LUMINAIRE POLES PRIOR TO POLE PLACEMENT. ADDITIONAL CLEARANCE MAY BE REQUIRED AS DIRECTED BY THE UTILITY. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.



ILLUMINATION LEGEND		
EX	NEW	DESCRIPTION
		UTILITY POLE MOUNTED LUMINAIRE
		UTILITY POLE
		POLE NUMBER
		CONSTRUCTION NOTE

REVISION	DATE	BY

DESIGNED BY: SSO/GRL
DRAWN BY: GL
APPROVED BY: GMD

ISSUE DATE: 06-20-2023
JOB NO.: TENW 2023-056
DRAWING FILE NO.:



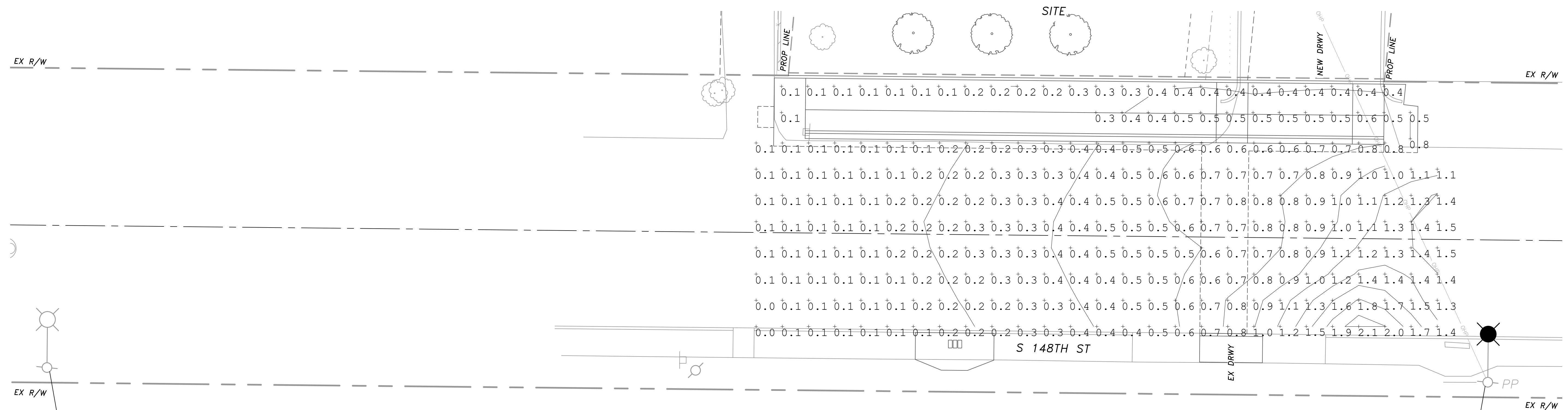
**TENW**  
Transportation Engineering NorthWest  
TRANSPORTATION PLANNING & DESIGN  
11400 SE 8th Street, Suite 200, Bellevue, WA 98004  
T: (425) 889-6747, www.tenw.com  
Project Contact: Grant Lewis  
Phone: (952) 270-9089

**SUKHJEET KHAIRA**  
12219 MILITARY RD S  
SEATTLE, WA 98168  
  
SKHAIRA86@GMAIL.COM  
(206) 331-6117

3006 S 148TH ST  
  
**ILLUMINATION PLAN**

DRAWING NO.:	IL-01
SHEET NO.:	6 OF 7 SHEETS

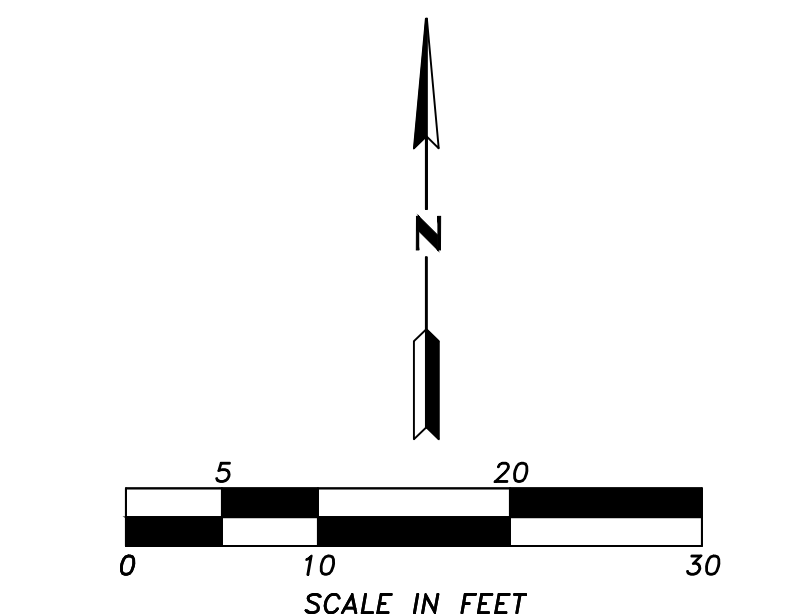
SECTION 21, TOWNSHIP 23 NORTH, RANGE 4 E., W.M.



UTILITY POLE MOUNTED LUMINAIRE  
 HEIGHT = 27' EX  
 ARM LENGTH = 6' EX  
 LAMP = 53W LED EX  
 FIXTURE = CREE LEDWAY EX  
 DISTRIBUTION = TYPE II EX  
 INITIAL LUMENS = 4,550 EX  
 LIGHT LOSS FACTOR = 0.80

UTILITY POLE MOUNTED LUMINAIRE  
 HEIGHT = 30' EX  
 ARM LENGTH = 6' EX  
 LAMP = 131W LED NEW  
 FIXTURE = LEOTEK GC1 NEW  
 DISTRIBUTION = TYPE II NEW  
 INITIAL LUMENS = 14,200 NEW  
 LIGHT LOSS FACTOR = 0.80

CALCULATION AREA	DESIGN CRITERIA	
	AVG. MAINTAINED FOOT CANDLES	UNIFORMITY RATIO AVG. FC / MIN. FC
S 148TH ST (LOCAL-RESIDENTIAL)	N/A	N/A
S 148TH ST - SIDEWALK (LOCAL-RESIDENTIAL)	0.30	6.00:1
	<b>0.56</b>	<b>3.50:1</b>



ILLUMINATION LEGEND		
EX	NEW	DESCRIPTION
		UTILITY POLE MOUNTED LUMINAIRE
		UTILITY POLE

REVISION	DATE	BY

DESIGNED BY:  
SSO/GRL

DRAWN BY:  
GL

APPROVED BY:  
GMD

ISSUE DATE:  
06-20-2023

JOB NO.:  
TENW 2023-056

DRAWING FILE NO.:



**TENW**  
 Transportation Engineering NorthWest  
 TRANSPORTATION PLANNING & DESIGN  
 11400 SE 8th Street, Suite 200, Bellevue, WA 98004  
 T: (425) 889-6747, www.tenw.com  
 Project Contact: Grant Lewis  
 Phone: (952) 270-9089

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 12219 MILITARY RD S  
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 SKHAIRA86@GMAIL.COM  
 (206) 331-6117

3006 S 148TH ST

PHOTOMETRIC CALCULATIONS

DRAWING NO.:  
PC-01

SHEET NO.:  
7  
OF  
7  
SHEETS