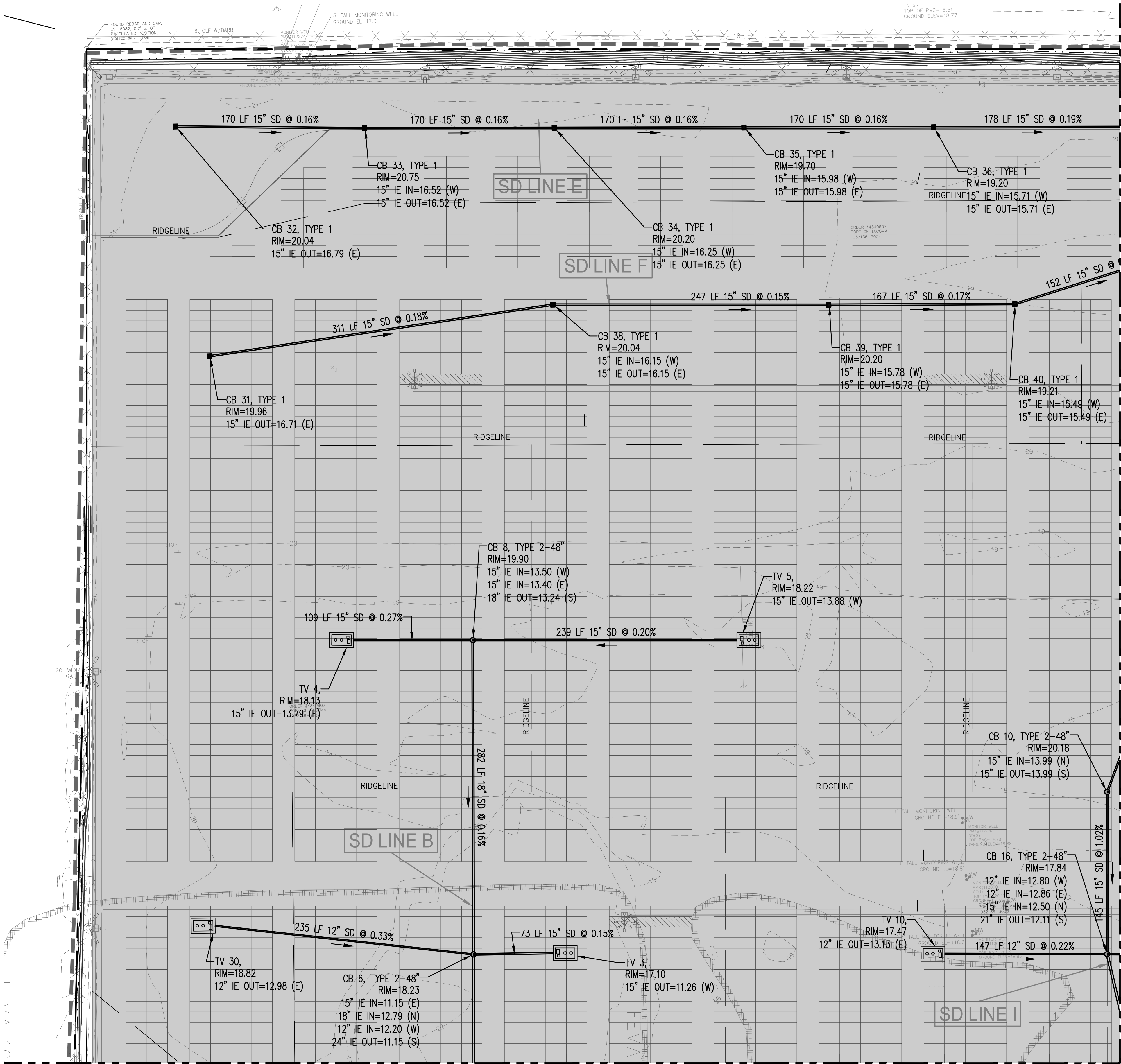




MATCH LINE SEE SHEET C2.1

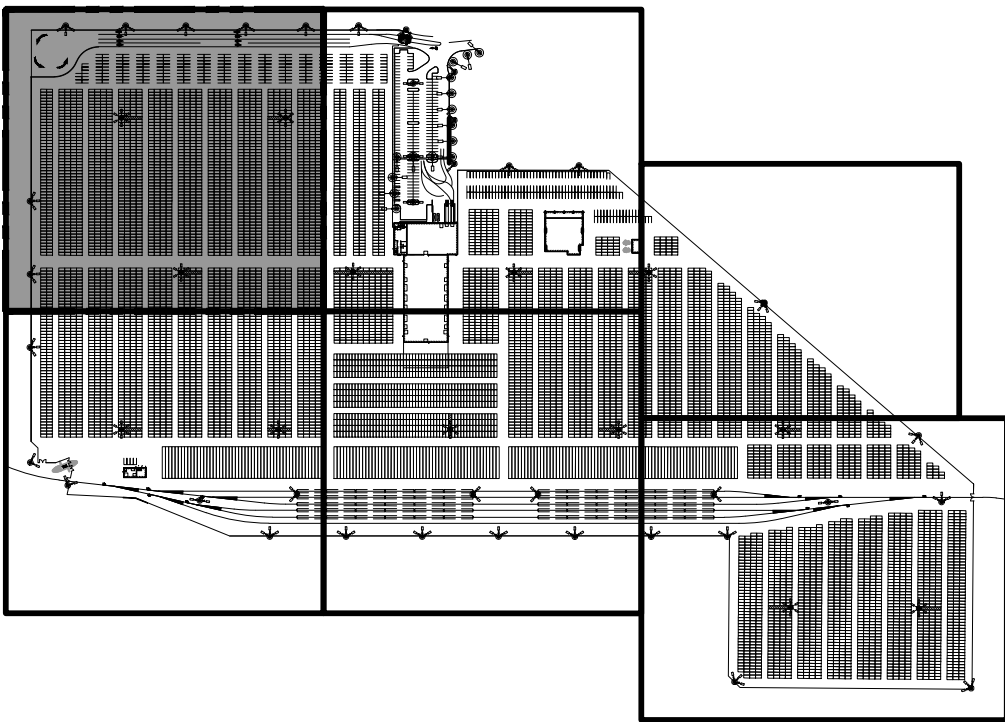
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GRADING AND DRAINAGE NOTES

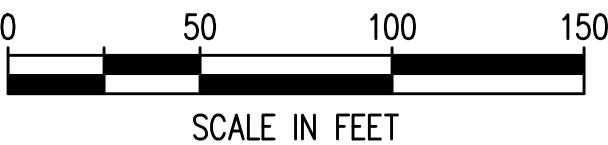
- PAVEMENT EDGE, SEE 3
C3.7
- OUTFALL PROTECTION, SEE 1
C2.25
- CONSTRUCT CULVERT PROTECTION SLAB PER 2
C1.16

NOTES

- REFER TO SHEETS D1.0 THRU D1.6 FOR AREAS OF KNOWN REMNANT CONTAMINATION, AREAS OF REMEDIATED CONTAMINATION, AND APPROXIMATE LOCATION OF BURIED CONCRETE FOUNDATIONS.
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- STORM DRAIN PIPE SHALL BE CORRUGATED POLYETHYLENE PIPE, UNLESS OTHERWISE NOTED. REFER TO STORM DRAIN PROFILE SHEETS C2.9 THRU C2.20 FOR PIPE MATERIALS. PIPES CONNECTED TO TREATMENT VAULTS, FLOWING IN OR OUT, SHALL BE PVC
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- TYPE 1 CATCH BASINS SHALL HAVE A RECTANGULAR BI-DIRECTIONAL VANED GRATE PER WSDOT STD PLAN B-30.40-01
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- ALL CATCH BASIN, MANHOLE AND TREATMENT VAULT BLOCKOUTS SHALL BE FITTED WITH PRECAST COMPRESSION GASKET CONNECTION OR FLEXIBLE BOOT CONNECTION. SEE SHEET C2.6, NOTE 6.
- PROVIDE CLEANOUT ON UPSTREAM END OF ALL SUBDRAIN AND ALL TIGHTLINE PIPES, AND MIDWAY ALONG SUBDRAIN AND ALL TIGHTLINE PIPES GREATER THAN 300 FEET LONG. REFER TO 3 C2.21 AND 5 C2.21
- REFER TO SHEETS U1.0 THRU U1.5 FOR UTILITIES.
- FOR TYPICAL TRACK SUBDRAIN INSTALLATION, REFER TO 3 C2.27

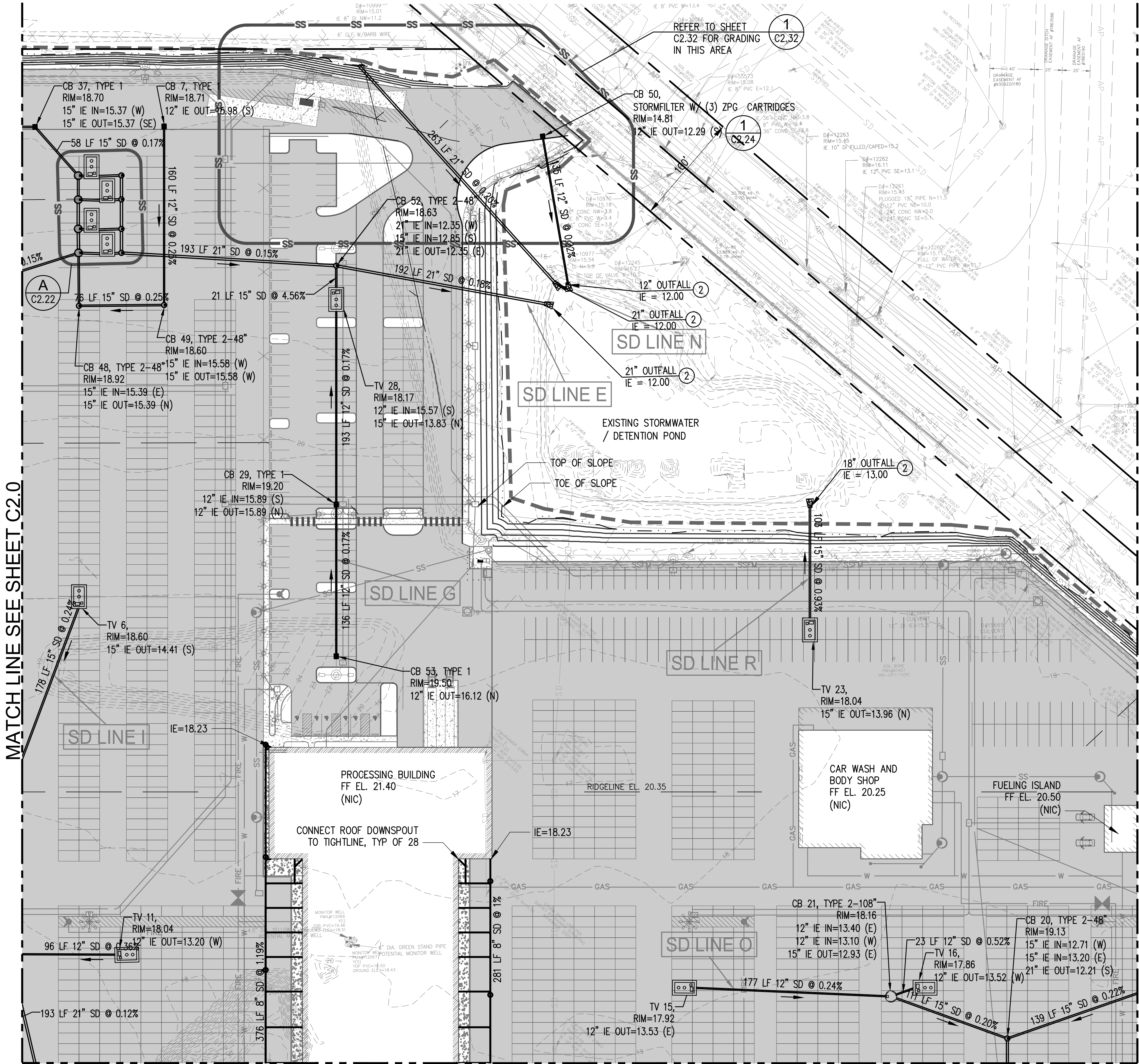


KEY PLAN
NTS



Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841	kpff KIMBERLY P. FLETCHER REGISTERED PROFESSIONAL ENGINEER NO. 32761 EXPIRATION DATE 12/31/2024	DATE: 5/7/2018	CMB	5/7/2018
		APPR: SWK	CHECKED BY: SWK	DATE: 5/9/2018
2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841	REVISION: 1	BY: cbenneth	PROJ. ENGR: cbenneth	DATE: May 10, 2018
		MARK: 1	REVISION: 1	DATE: May 10, 2018
PARCEL 77 AUTO IMPORT TERMINAL		TOWNSHIP: 21N RANGE: 3E SECTION: 36		
GRADING & DRAINAGE AREA 1		DATE-HRZ: W83-SF VERT: PORT OF TACOMA BM#		
C2.0 OF 163		PARCEL: MUI TITLE DRAWING SCALE: AS SHOWN		
CONT/CONS: 07070		TOWNSHIP: 21N RANGE: 3E SECTION: 36		
M. ID: 201020.01		DATE-HRZ: W83-SF VERT: PORT OF TACOMA BM#		
PHASE: BID SET		PARCEL: MUI TITLE DRAWING SCALE: AS SHOWN		

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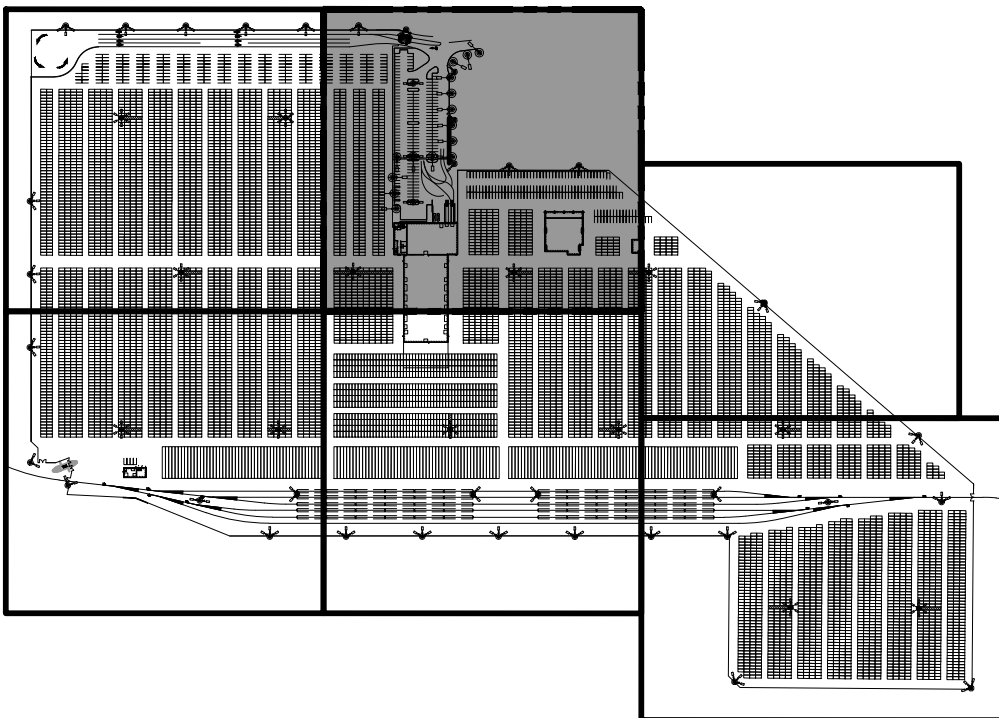


GRADING AND DRAINAGE NOTES

- 1 PAVEMENT EDGE, SEE 3 C3.7
- 2 OUTFALL PROTECTION, SEE 1 C2.25
- 3 CONSTRUCT CULVERT PROTECTION SLAB PER 2 C1.16

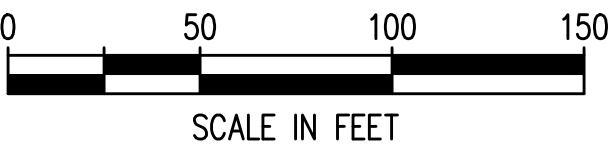
NOTES

- REFER TO SHEETS D1.0 THRU D1.6 FOR AREAS OF KNOWN REMNANT CONTAMINATION, AREAS OF REMEDIATED CONTAMINATION, AND APPROXIMATE LOCATION OF BURIED CONCRETE FOUNDATIONS.
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- REFER TO SHEETS U1.0 THRU U1.5 FOR UTILITIES.
- FOR TYPICAL TRACK SUBDRAIN INSTALLATION, REFER TO 3 C2.27



KEY PLAN

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DATE:
APPR:
BY:
REVISION:
MARK:
CMB

5/7/2018

CHECKED BY: DATE

SWK 5/9/2018

PROJ. ENGR DATE

PRINTED BY: chenneth May 10, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA WA 98401-1837

PARCEL 77 AUTO IMPORT TERMINAL

GRADING & DRAINAGE AREA 2

TOWNSHIP: 21N RANGE: 3E SECTION: 36

DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#

PARCEL: MUI TIPLE DRAWING SCALE: AS SHOWN

C2.1

51 OF 163

CONTR/CONS: 07070

M. ID: 201020.01

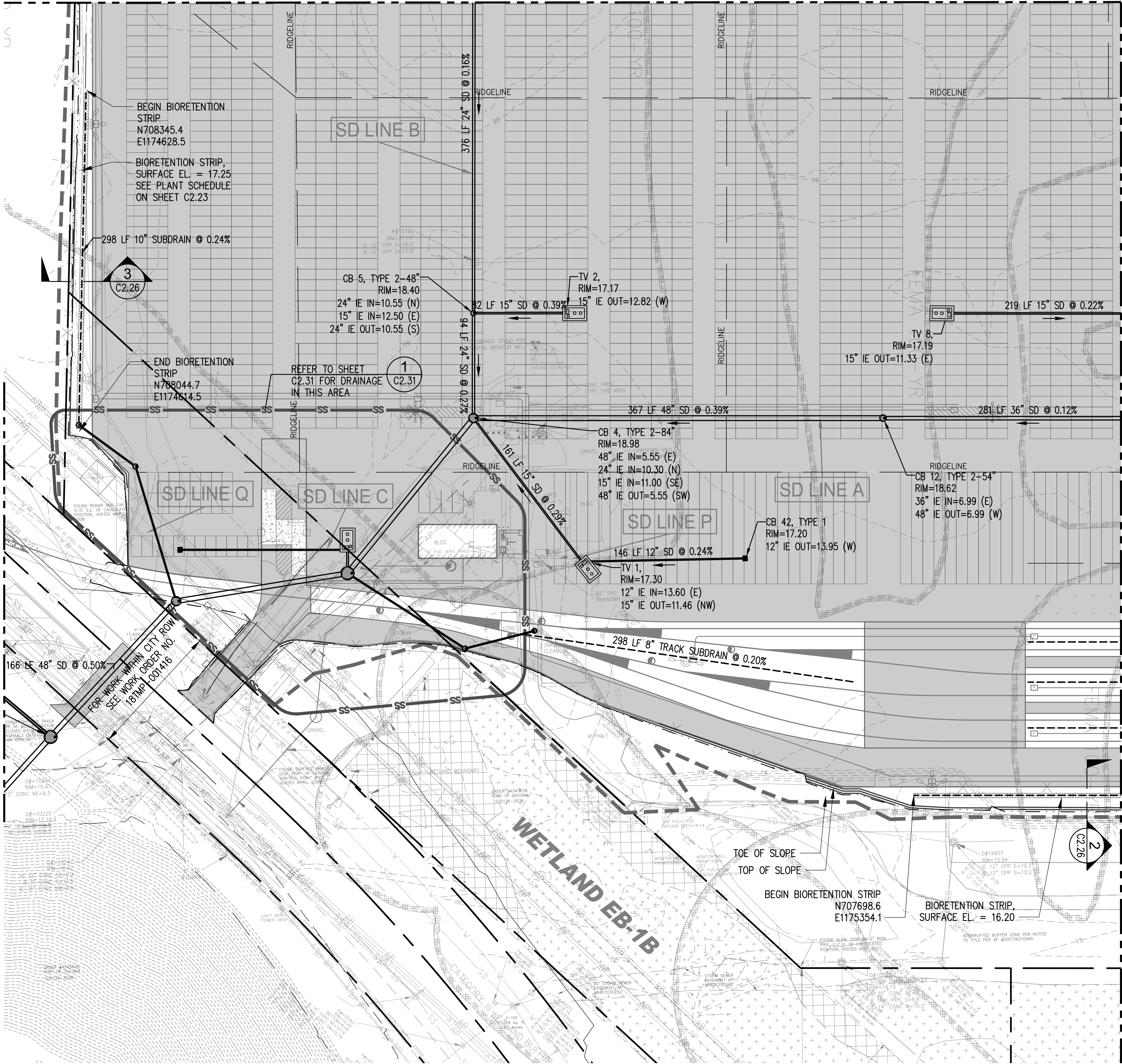
PHASE: BID SET

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MATCH LINE SEE SHEET C2.30

MATCH LINE SEE SHEET C2.0

MATCH LINE SEE SHEET C2.3

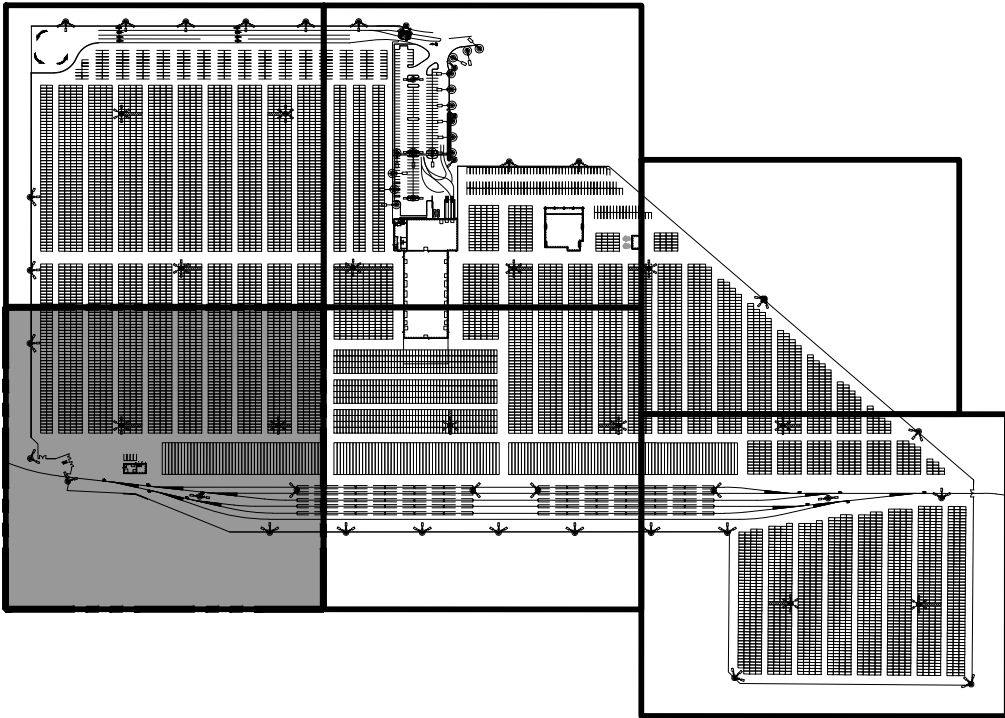


GRADING AND DRAINAGE NOTES

- ① PAVEMENT EDGE, SEE **3** C3.7
- ② OUTFALL PROTECTION, SEE **1** C2.25
- ③ CONSTRUCT CULVERT PROTECTION SLAB PER **2** C1.16

NOTES

- REFER TO SHEETS D1.0 THRU D1.6 FOR AREAS OF KNOWN REMNANT CONTAMINATION, AREAS OF REMEDIATED CONTAMINATION, AND APPROXIMATE LOCATION OF BURIED CONCRETE FOUNDATIONS.
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- FOR TYPICAL TRACK SUBDRAIN INSTALLATION, REFER TO **3** C2.27



KEY PLAN
NTS

C2.2 52 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				GRADING & DRAINAGE AREA 3			
	APPROVED:				CMB	5/7/2018		
	DIRECTOR ENG. DATE				SWK	5/9/2018		
	PRINTED BY: cbenneth				PROJ. ENGR	DATE		
CONTR/CONS: 070770	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DATE-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PORT ADDRESS: ONE SITCUM PLAZA	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	
PHASE: BID SET	PARCEL: MUI TYPE	DRAWING SCALE: AS SHOWN	TACOMA WA 98401-1837		TACOMA WA 98401-1837		DATE: _____	
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				REVISION: _____				APPR: _____



MATCH LINE SEE SHEET C2.5



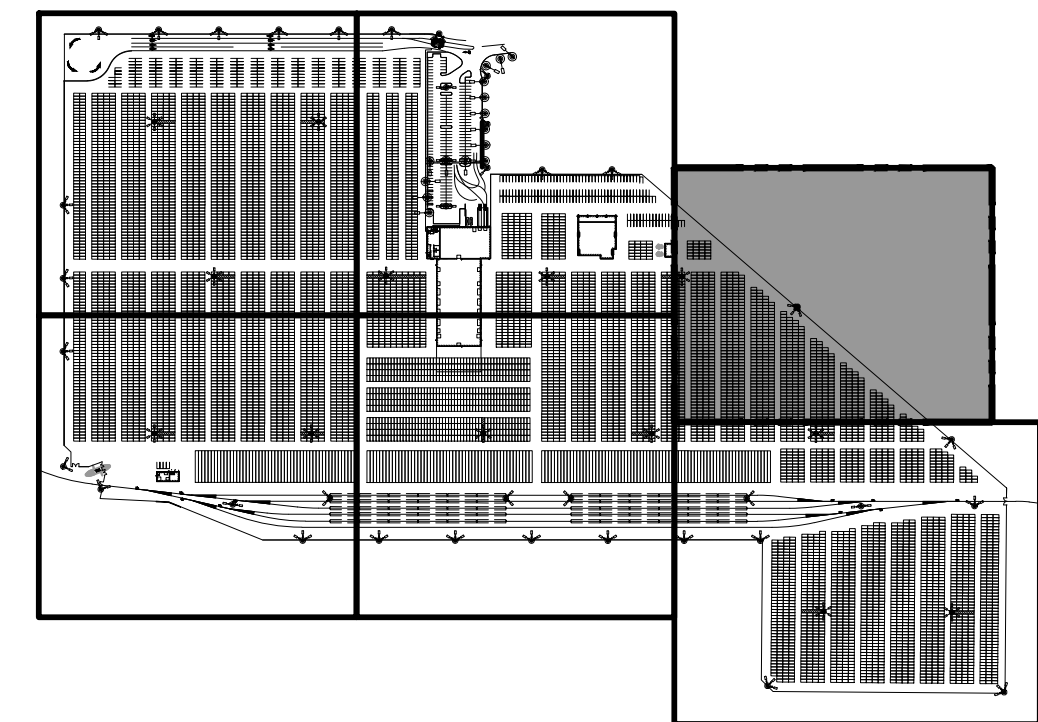
① PAVEMENT EDGE, SEE ③
C3.7

② OUTFALL PROTECTION, SEE ①
C2.25

③ CONSTRUCT CULVERT PROTECTION SLAB PER ②
C1.16

NOTES

1. REFER TO SHEETS D1.0 THRU D1.6 FOR AREAS OF KNOWN REMNANT CONTAMINATION, AREAS OF REMEDIATED CONTAMINATION, AND APPROXIMATE LOCATION OF BURIED CONCRETE FOUNDATIONS.
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REFER TO AND
12. REFER TO SHEETS U1.0 THRU U1.5 FOR UTILITIES.
13. FOR TYPICAL TRACK SUBDRAIN INSTALLATION, REFER TO



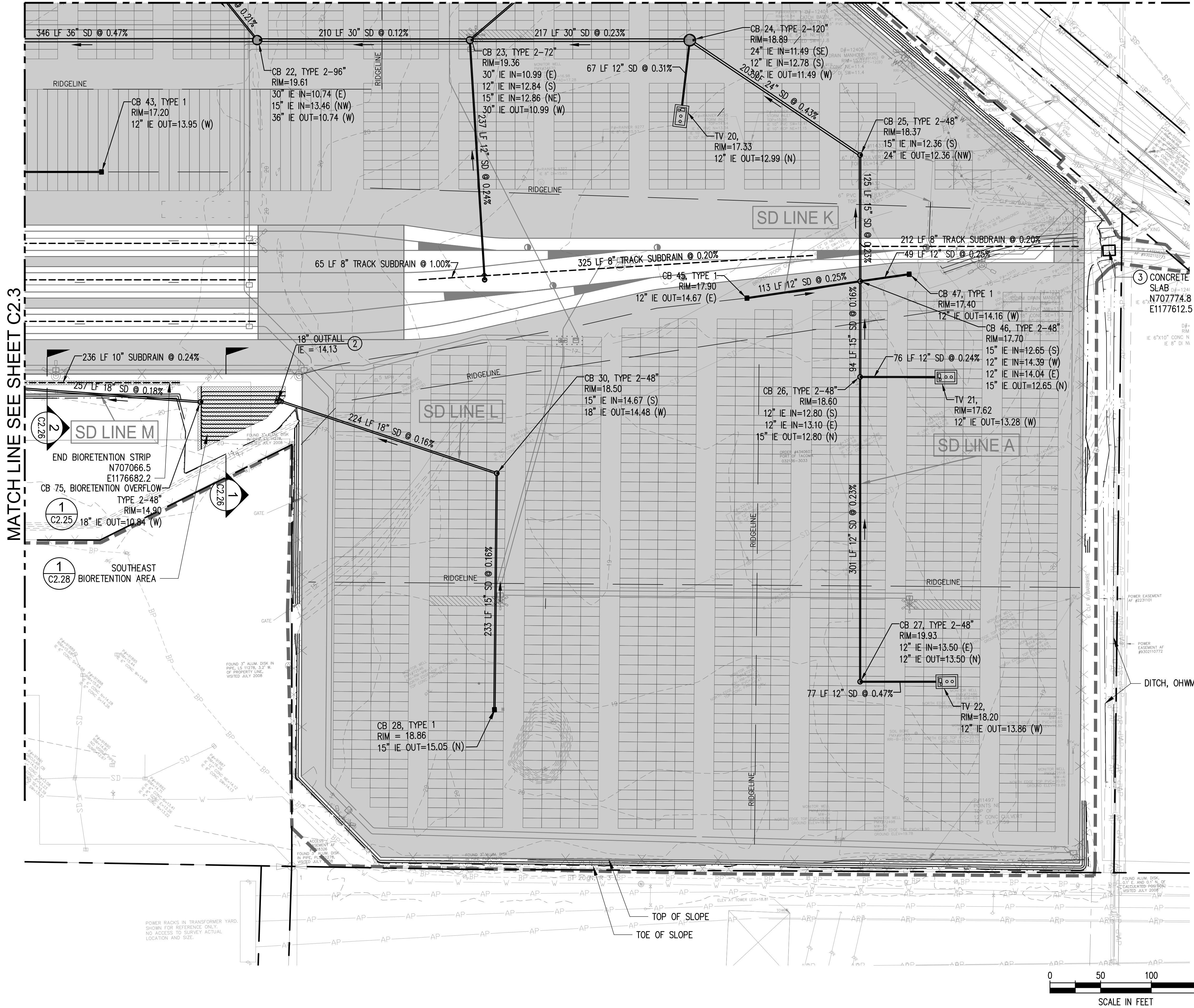
KEY PLAN

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C2.4 54 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB		5/7/2018		 2407 North 31st Street, Suite 100 Tacoma, Washington 98401 (253) 396-0150 Tdx (253) 396-0162	 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)393-5841		
	GRADING & DRAINAGE						CHECKED BY		DATE					
	AREA 5				SWK		5/9/2018							
	TOWNSHIP: 21N RANGE: 3E SECTION: 36				DIRECTOR		ENG. DATE							
	DAT-HRZ: V83-SF VERT: PORT OF TACOMA BM#				PRINTED BY: cbennett		May 10, 2018							
CONTRACT/CONS: 070770	M. ID: 201020.01			PHASE: BID SET		PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837		MARK:	REVISION:	BY:	APPR:	DATE:

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MATCH LINE SEE SHEET C2.4

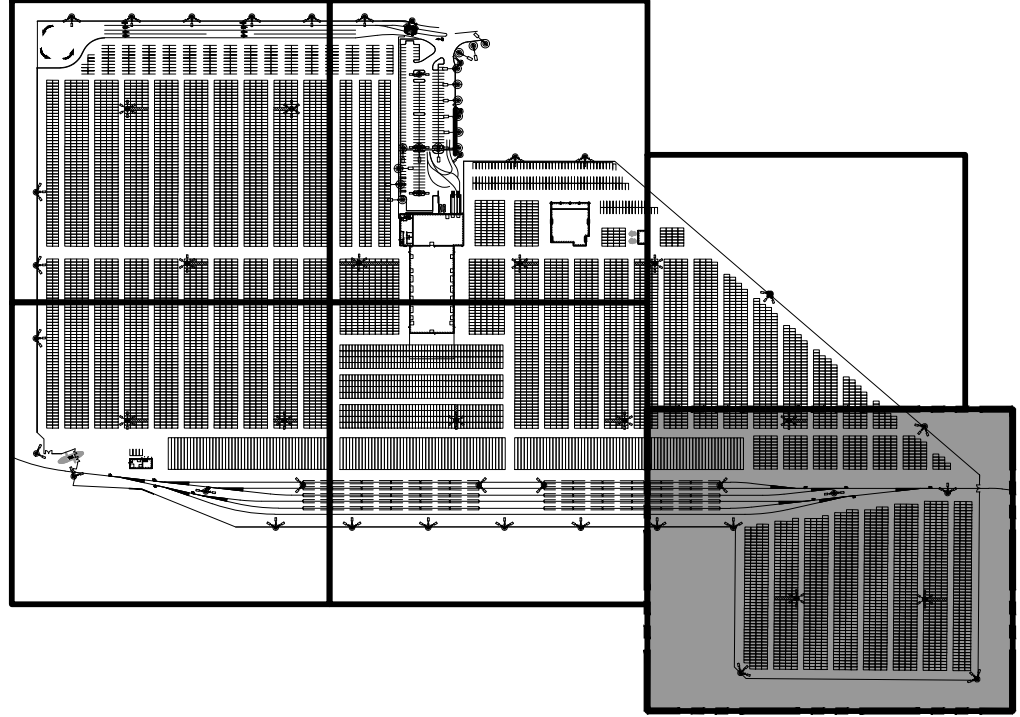


GRADING AND DRAINAGE NOTES

- 1. PAVEMENT EDGE, SEE 3 C3.7
- 2. OUTFALL PROTECTION, SEE 1 C2.25
- 3. CONSTRUCT CULVERT PROTECTION SLAB PER 2 C1.16

NOTES

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- REFER TO SHEETS U1.0 THRU U1.5 FOR UTILITIES.
- FOR TYPICAL TRACK SUBDRAIN INSTALLATION, REFER TO 3 C2.27



KEY PLAN
NTS

Port of Tacoma

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(253) 396-0150 Fax (253) 396-0162

kpff

KEVIN P. KATZ, P.E.
REGISTERED PROFESSIONAL
ENGINEER
NO. 37261
WASHINGTON STATE

APPROVED:

CMB 5/7/2018
CHECKED BY DATE
SWK 5/9/2018
DIRECTOR ENG. DATE
PRINTED BY: cbennett May 10, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA WA 98401-1837

PARCEL 77 AUTO IMPORT TERMINAL

GRADING & DRAINAGE
AREA 6

C2.5
55 OF 163

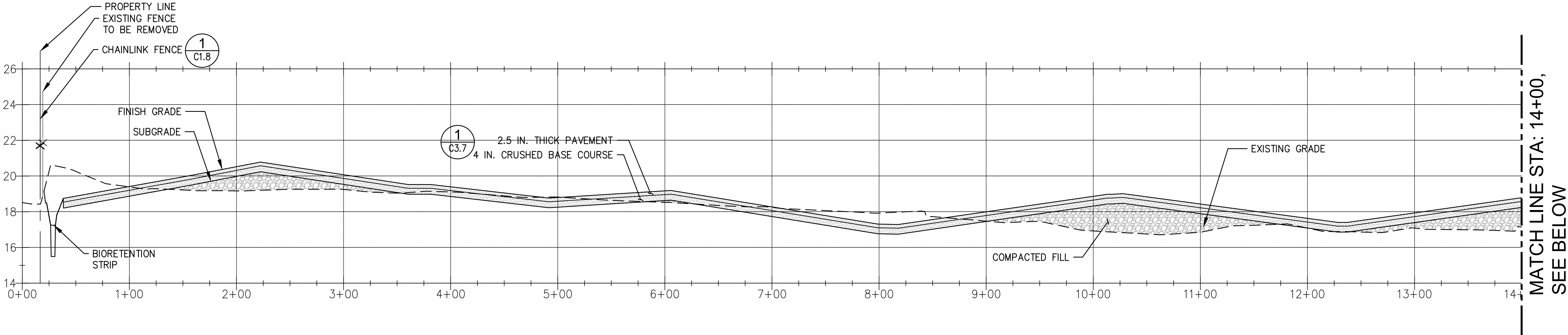
CONTR/CONS: 070770
M. ID: 201020.01
PHASE: BID SET

TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DAT-HRZ: W83-SF
VERT: PORT OF TACOMA BM#
PARCEL: MULTIPLE
DRAWING SCALE: AS SHOWN

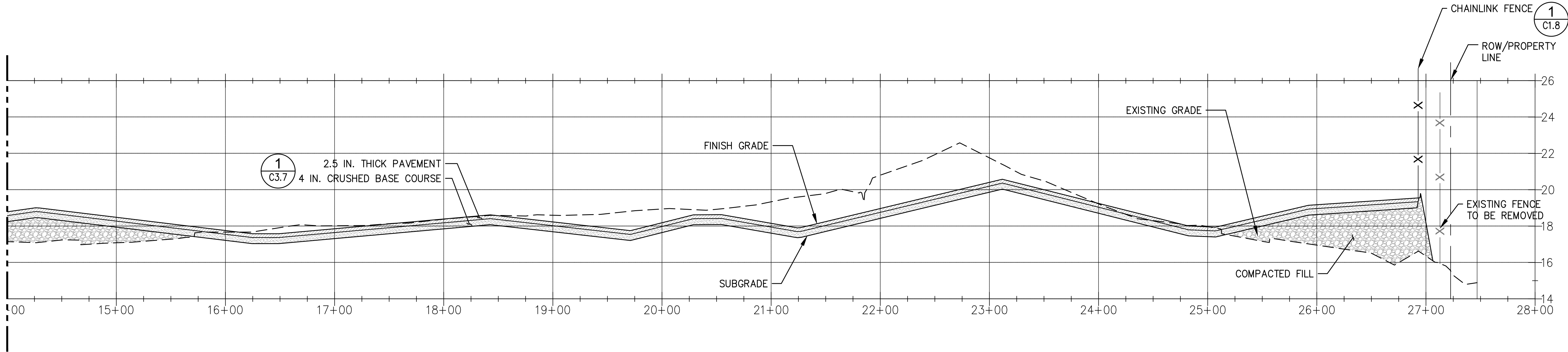
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DATE: _____
APPR: _____
BY: _____
REVISION: _____
MARK: _____

MATCH LINE STA: 14+00,
SEE ABOVE



B E-W SITE SECTION; STA 0+00 TO 14+00
C2.7 SCALE: H: 1" = 50', V: 1" = 3'



B E-W SITE SECTION; STA 14+00 TO 28+00
C2.7 SCALE: H: 1" = 50', V: 1" = 3'

GENERAL NOTES

SECTION DOES NOT REFLECT STRIPING OF SURFICIAL SOILS AND VEGETATION, REFER TO SHEET D1.6.

C2.7

57 OF 163

CONT/CONS: 070770
M. ID: 201020.01
PHASE: BID SET

PARCEL 77 AUTO IMPORT TERMINAL

SITE SECTIONS

TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DATE-HRZ: W83-SF
PARCEL: MULTIPLE

DRAWING SCALE: AS SHOWN

APPROVED:

CMB
CHECKED BY: DATE
SWK 5/9/2018
PROJ. ENGR
DIRECTOR ENG. DATE
PRINTED BY: chennett May 10, 2018
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Tacoma, Washington 98407
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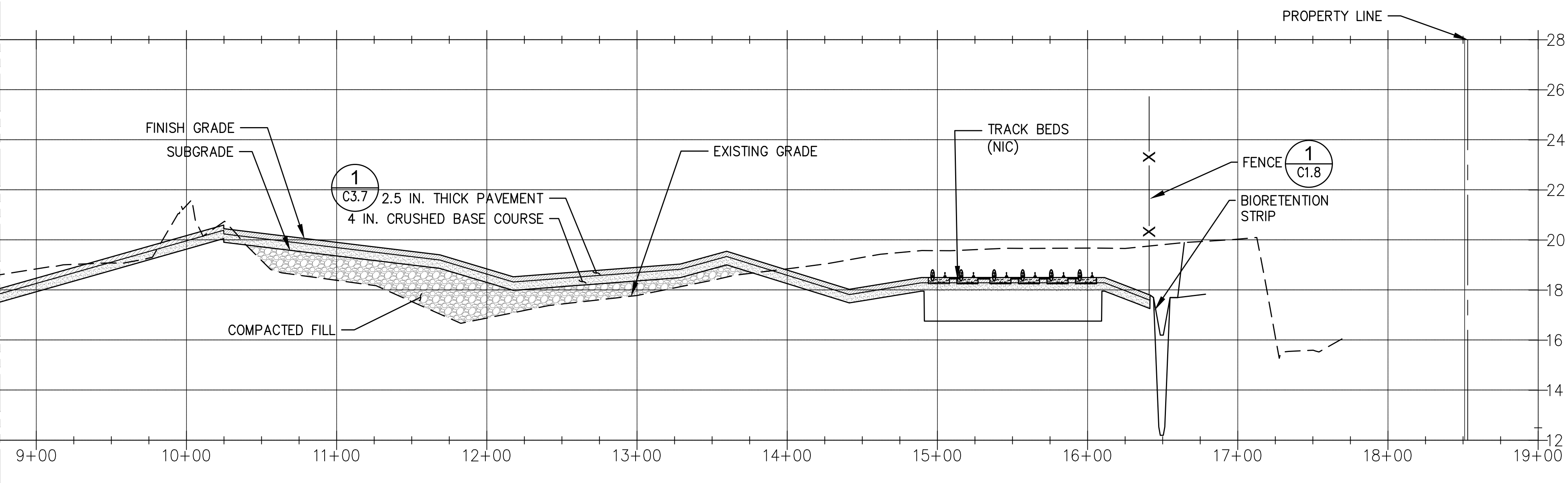
kpff

5/19/18
REGISTERED PROFESSIONAL
KIM K. KINGSLEY
P.E. 32761

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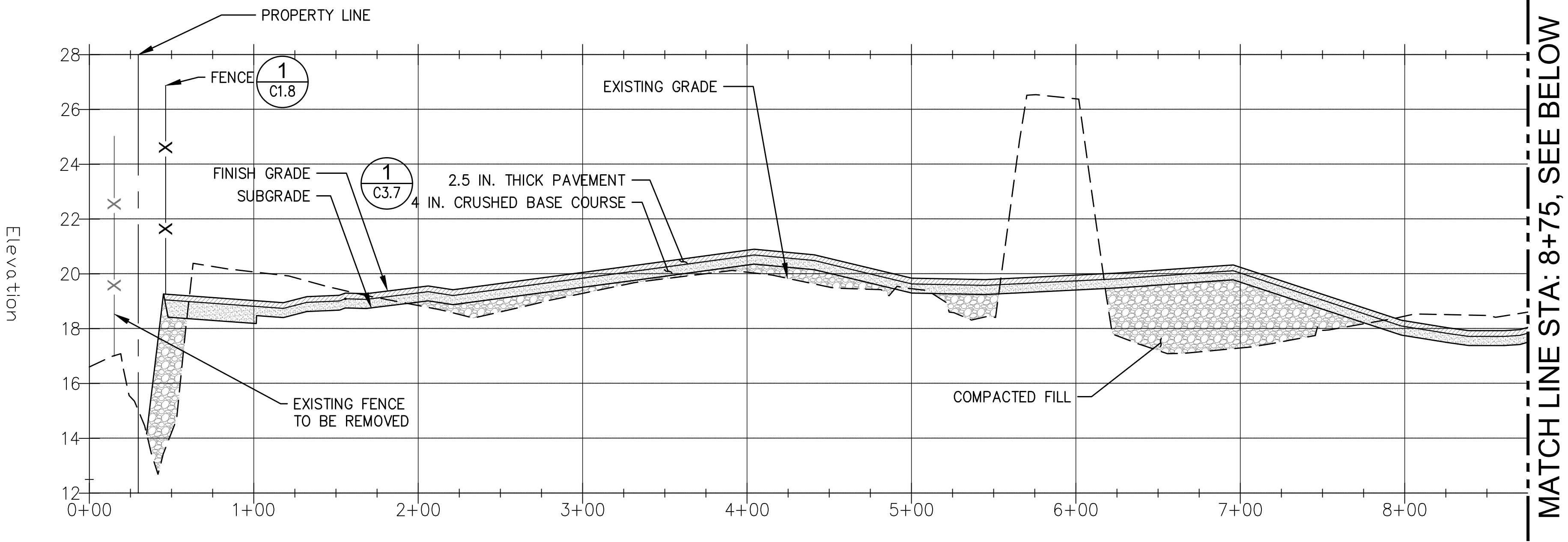
MATCH LINE STA: 8+75, SEE ABOVE



A
C2.8 **N-S SITE SECTION; STA: 8+75 TO 19+00**
SCALE: H: 1" = 50', V: 1" = 3'

GENERAL NOTES

SECTION DOES NOT REFLECT STRIPING OF SURFICIAL SOILS AND VEGETATION, REFER TO SHEET D1.6



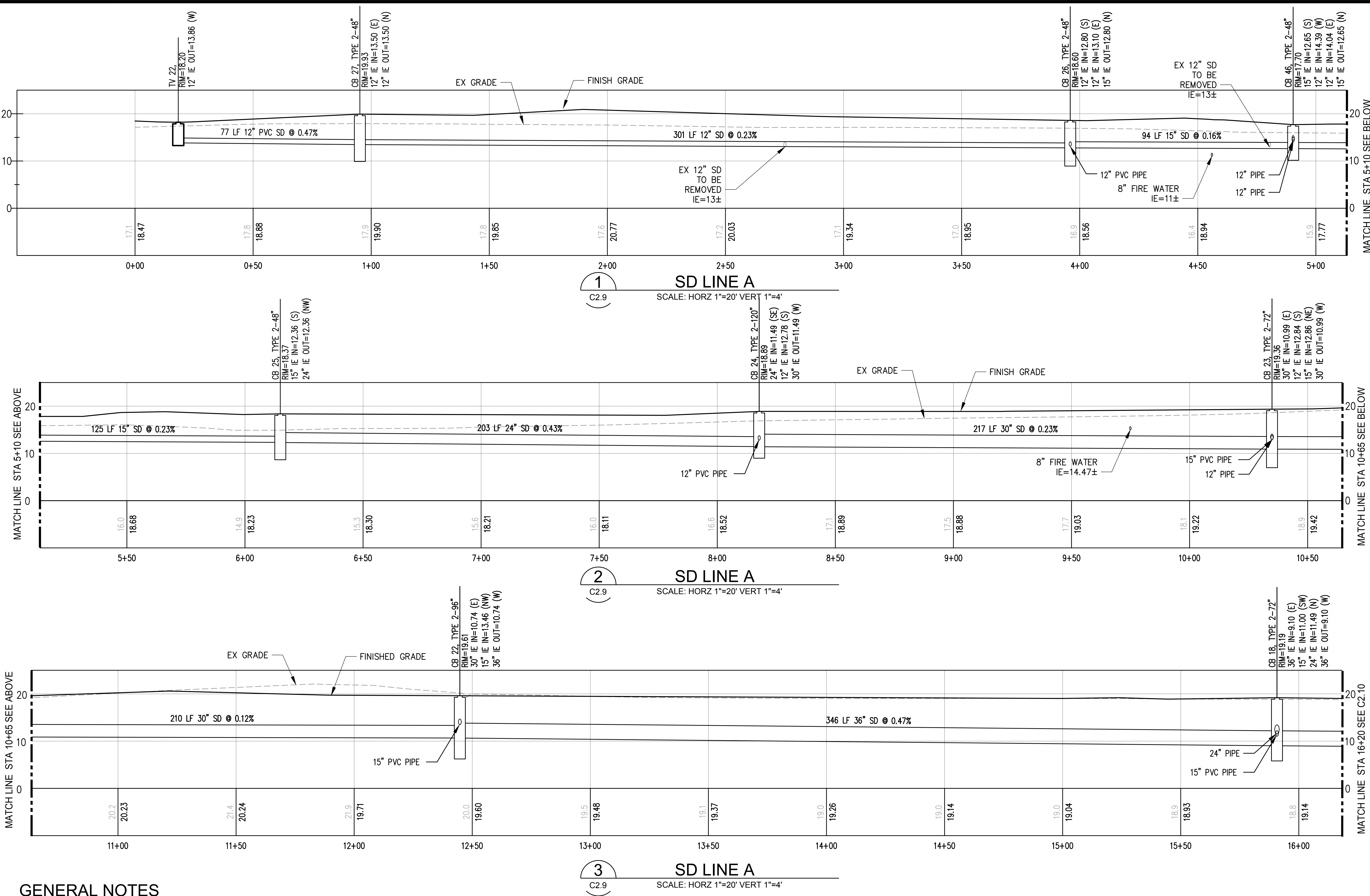
A
C2.8 **N-S SITE SECTION; STA: 0+00 TO 8+75**
SCALE: H: 1" = 50', V: 1" = 3'

C2.8 58 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB	5/7/2018		
	SITE SECTIONS				CHECKED BY	DATE	SWK	5/9/2018		
					DIRECTOR ENG. DATE	PROJ. ENGR	DATE	PRINTED BY: chennett	May 10, 2018	
					PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA 98401-1837			
CONT/CONS: 070770	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36							
M. ID: 201020.01	DATE-HRZ: W83-SF	VERT: PORT OF TACOMA BM#								
PHASE: BID SET	PARCEL: MULTIPLE	DRAWING SCALE: AS SHOWN								

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MARK:	REVISION:	BY:	APPR:	DATE:

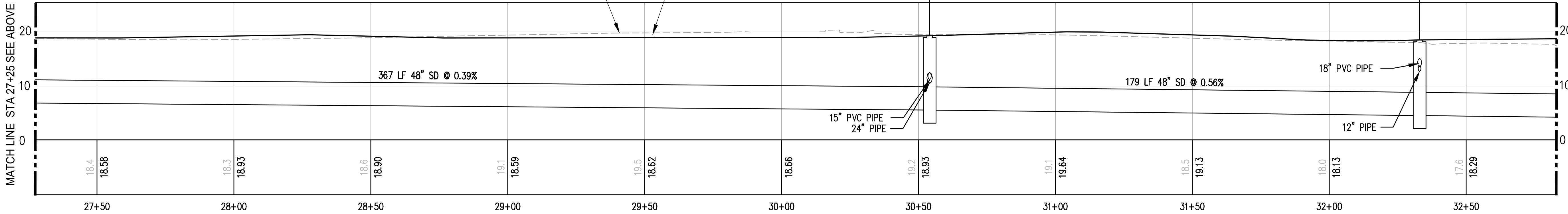


GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



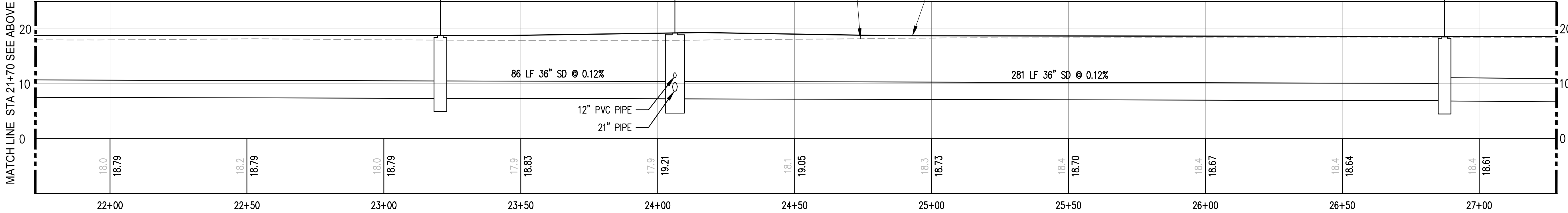
C2.9 59 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:				Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841						
	STORM DRAINAGE PROFILES				CMB 5/7/2018				kpff						
	TOWNSHIP: 21N RANGE: 3E SECTION: 36				CHECKED BY: DATE				BY: APPR: DATE:						
	DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#				SWK 5/9/2018				REVISION:						
PHASE: BID SET				DRAWING SCALE: AS SHOWN				DIRECTOR ENG. DATE				PROJ. ENGR DATE			
CONT/CONS: 070770				PRINTED BY: cbennett May 10, 2018				5/9/2018				MARK:			
PARCEL: MULTIPLE				PORT ADDRESS: ONE SITCUM PLAZA				TACOMA WA 98401-1837				THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION			



3
C2.10

SD LINE A

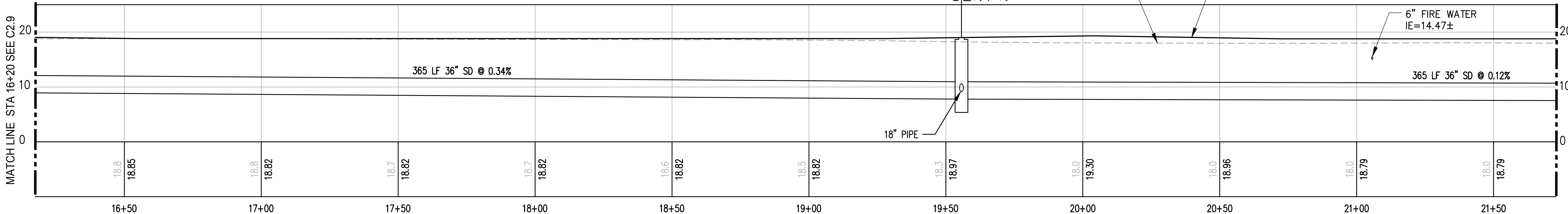
SCALE: HORZ 1"=20' VERT 1"=4'



2
C2.10

SD LINE A

SCALE: HORZ 1"=20' VERT 1"=4'



1
C2.10

SD LINE A

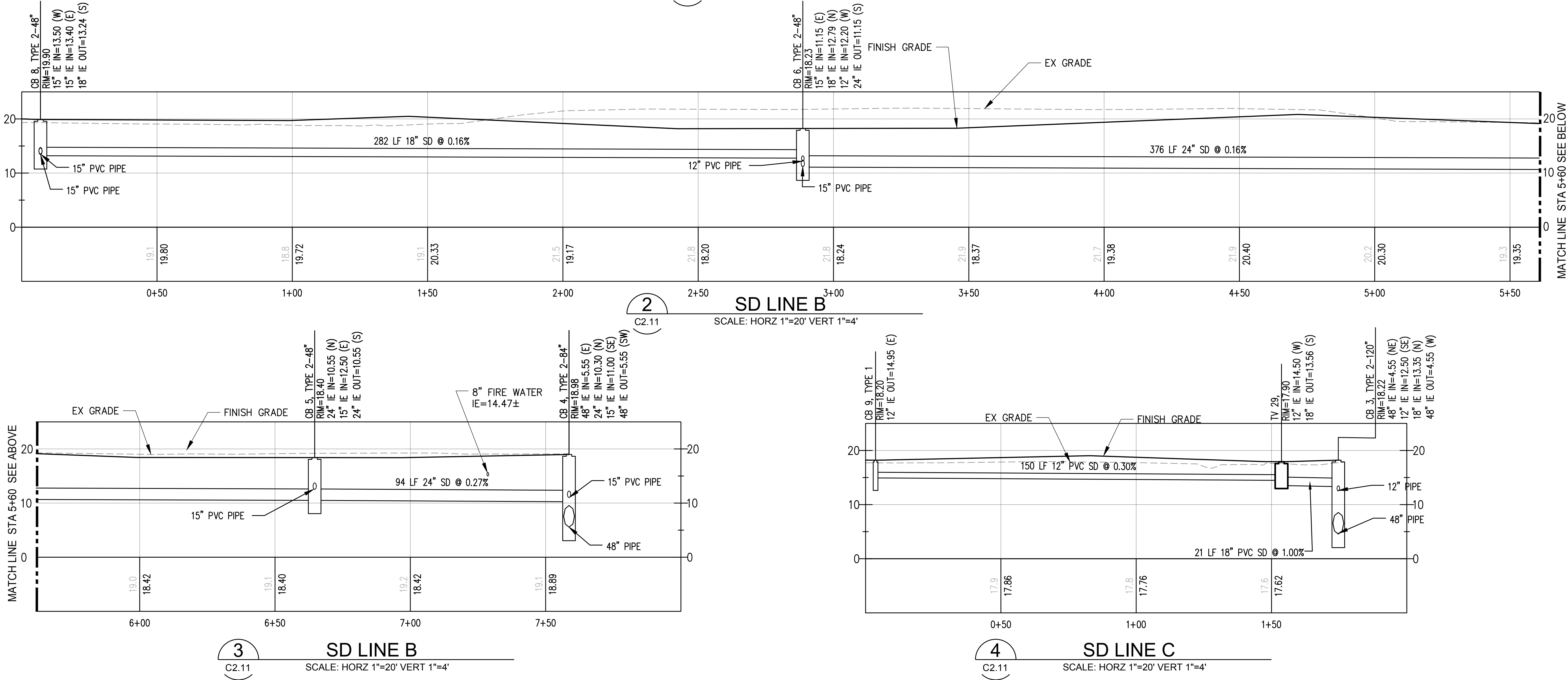
SCALE: HORZ 1"=20' VERT 1"=4'

GENERAL NOTES

- ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.10 60 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED: CMB 5/7/2018	 kpff 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841	
	STORM DRAINAGE PROFILES				CHECKED BY: DATE SWK 5/9/2018		
	TOWNSHIP: 21N RANGE: 3E SECTION: 36				PROJ. ENGR DATE chennett May 10, 2018		
	DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#				PRINTED BY: chennett May 10, 2018		
CONT/CONS: 070770		M. ID: 201020.01		PHASE: BID SET		MARK: REVISION: BY: APPR: DATE:	
		PARCEL: MULTIPLE		DRAWING SCALE: AS SHOWN			
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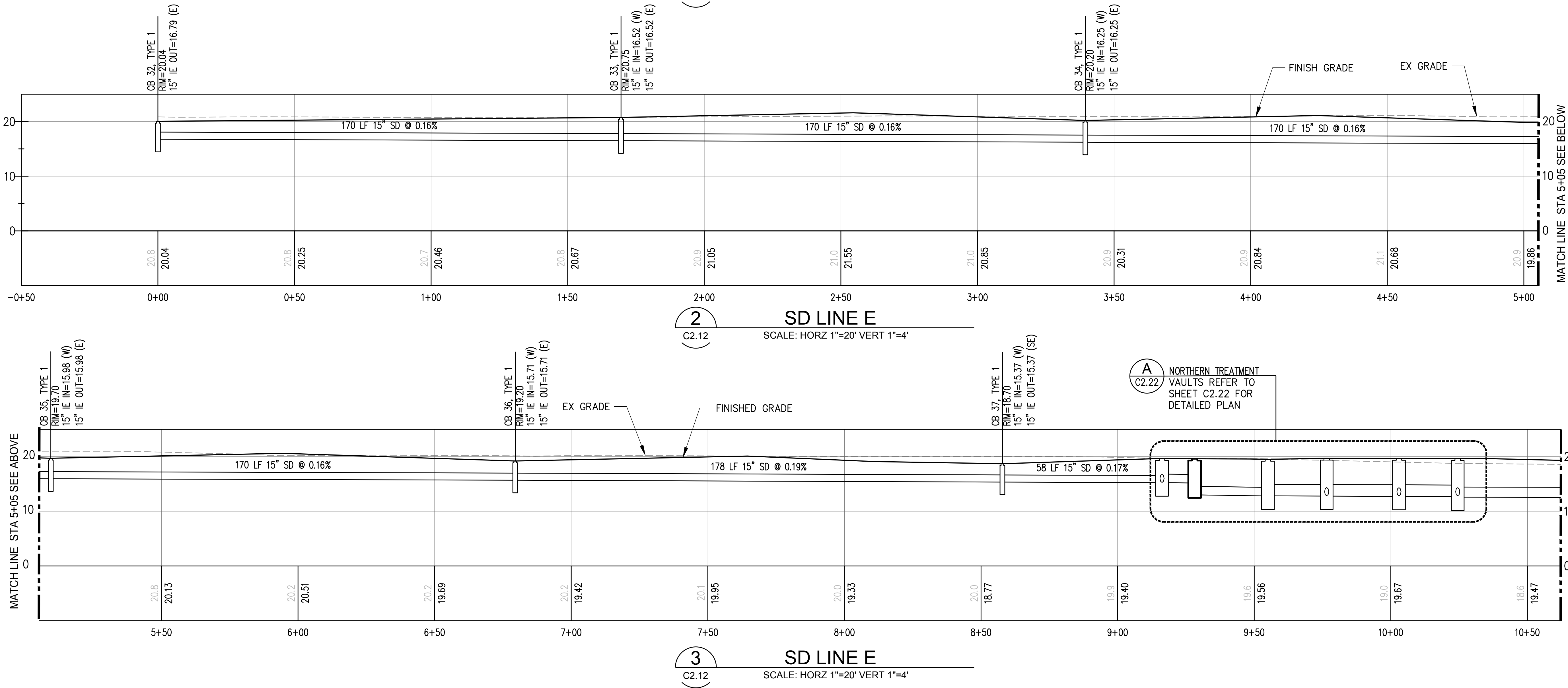
GENERAL NOTES

- ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.11 61 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		5/7/2018		
	TOWNSHIP: 21N		RANGE: 3E		SECTION: 36		CMB		
	DATE-HRZ: W83-SF		VERT: PORT OF TACOMA BM#		DIRECTOR ENG. DATE		CHECKED BY DATE		
	PHASE: BID SET		DRAWING SCALE: AS SHOWN		PRINTED BY: chennett May 10, 2018		SWK 5/9/2018		
CONT/CONS: 070770		M. ID: 201020.01		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837	
BY: [Signature]		REVISION: [Signature]		DATE: [Signature]		APPR: [Signature]		DATE: [Signature]	
MARK: [Signature]		BY: [Signature]		DATE: [Signature]		APPR: [Signature]		DATE: [Signature]	

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GENERAL NOTES

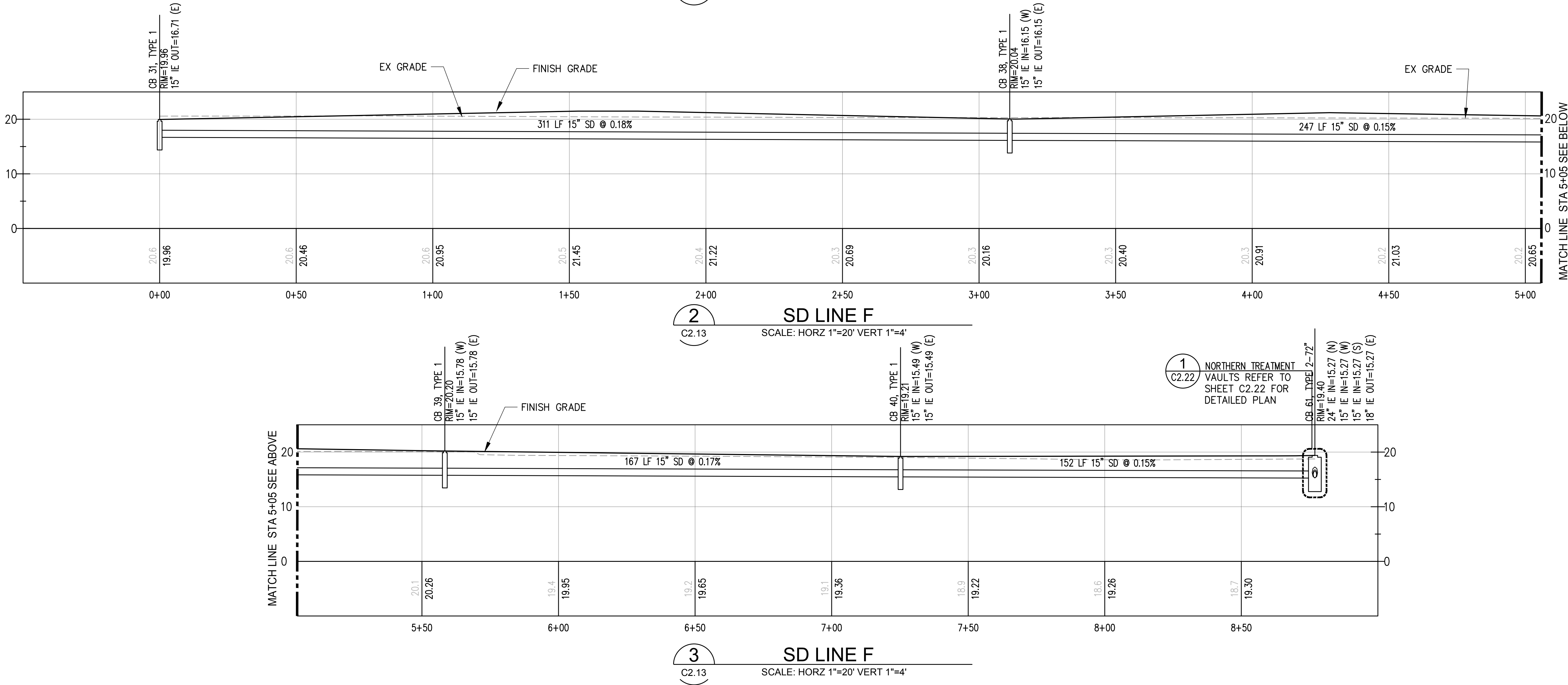
1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.12 62 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB 5/17/2018		 kpff 2407 North 31st Street, Suite 100 Tacoma, WA 98401 (253) 396-0150 Fax (253) 396-0162		
	STORM DRAINAGE PROFILES		CHECKED BY DATE		MARK: REVISION:		APPR: DATE:				
	DIRECTOR ENG. DATE		SWK 5/9/2018		BY:		BY:				
	RANGE: 3E SECTION: 36		PROJ. ENGR DATE		PRINTED BY: cbennett May 10, 2018		MARK: REVISION:				APPR: DATE:
TOWNSHIP: 21N DATE-HRZ: W83-SF		PORT OF TACOMA BM#		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA	
PARCEL: MULTIPLE		DRAWING SCALE: AS SHOWN		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837	
CON/CONS: 07070		DATE-HRZ: W83-SF		SECTION: 36		SECTION: 36		SECTION: 36		SECTION: 36	
M. ID: 201020.01		PORT OF TACOMA BM#		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA	
PHASE: BID SET		DRAWING SCALE: AS SHOWN		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837		TACOMA WA, 98401-1837	

GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.13 63 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB	5/7/2018	
	STORM DRAINAGE PROFILES				CHECKED BY		DATE		
					SWK		5/9/2018		
					DIRECTOR ENG. DATE		PROJ. ENGR DATE		
CONT/CONS: 070770		TOWNSHIP: 21N		RANGE: 3E		SECTION: 36			
M. ID: 201020.01		DAT-HRZ: W83-SF		VERT: PORT OF TACOMA BM#		PRINTED BY: cbennett		May 10, 2018	
PHASE: BID SET		PARCEL: MUI TITLE		DRAWING SCALE: AS SHOWN		PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837	

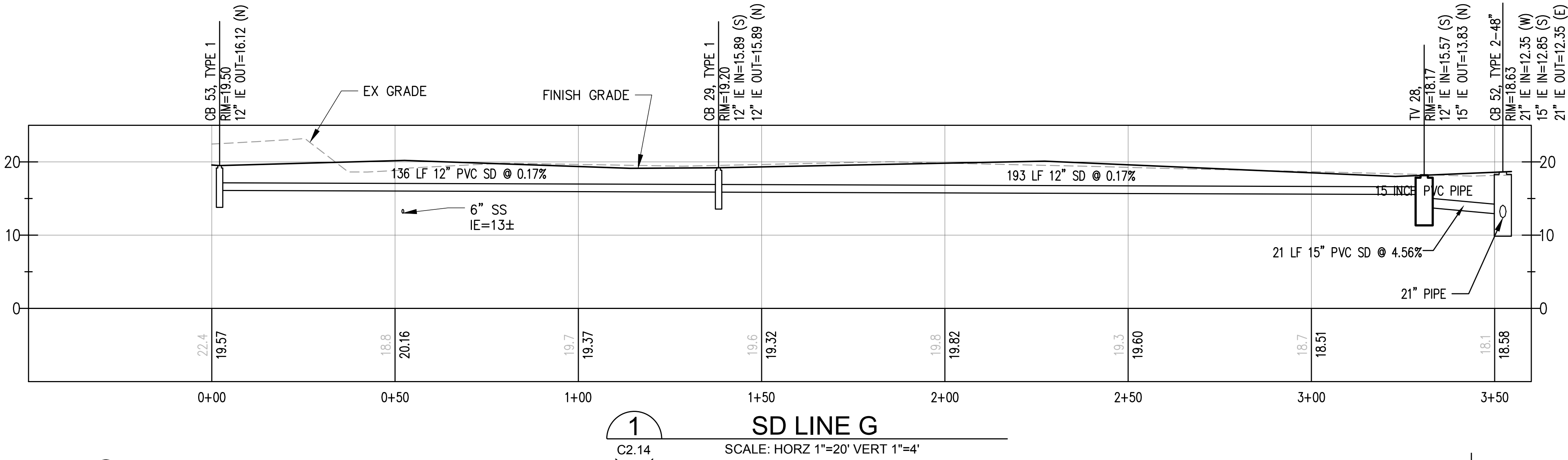
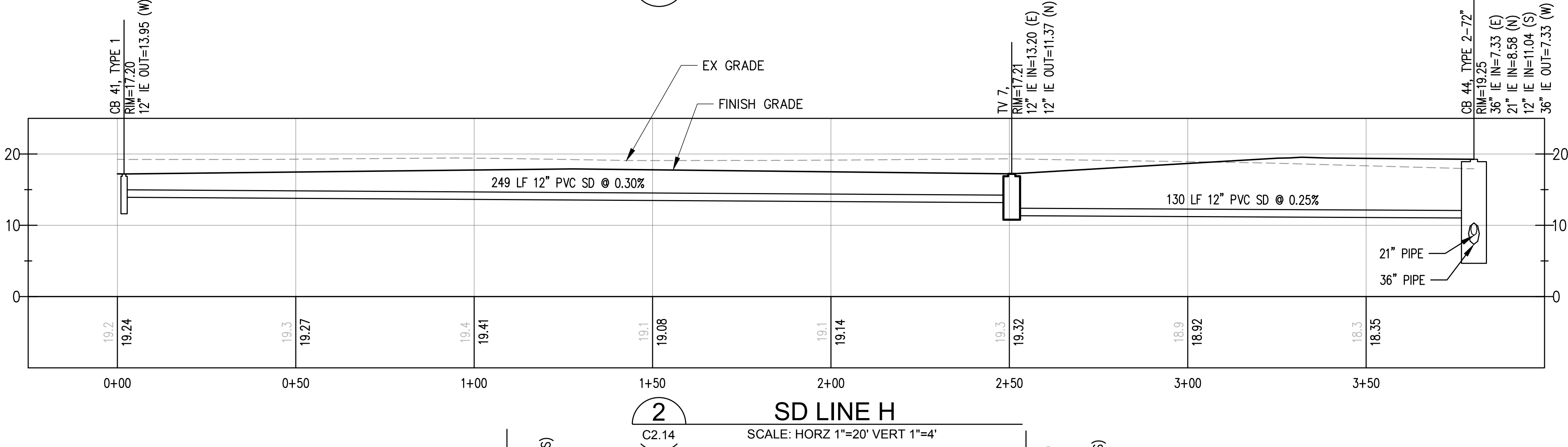
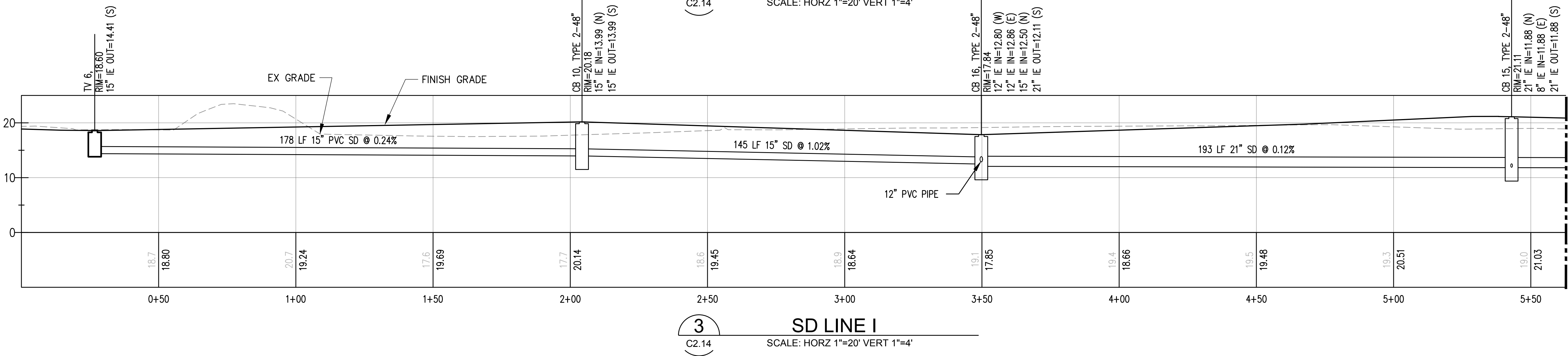
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APPR: _____
BY: _____
REVISION: _____
MARK: _____

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GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



MATCH LINE STA 5+60 SEE C2.15

C2.14

64 OF 163

CONTRACT/CONS: 070770

M. ID: 201020.01

PHASE: BID SET

STORM DRAINAGE PROFILES

PARCEL 77 AUTO IMPORT TERMINAL

APPROVED:

CHECKED BY: DATE

SWK 5/9/2018

DIRECTOR ENG. DATE

PROJ. ENGR DATE

PRINTED BY: chennett May 10, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA WA 98401-1837

5/7/2018

5/9/2018

May 10, 2018

ONE SITCUM PLAZA

98401-1837

Port of Tacoma

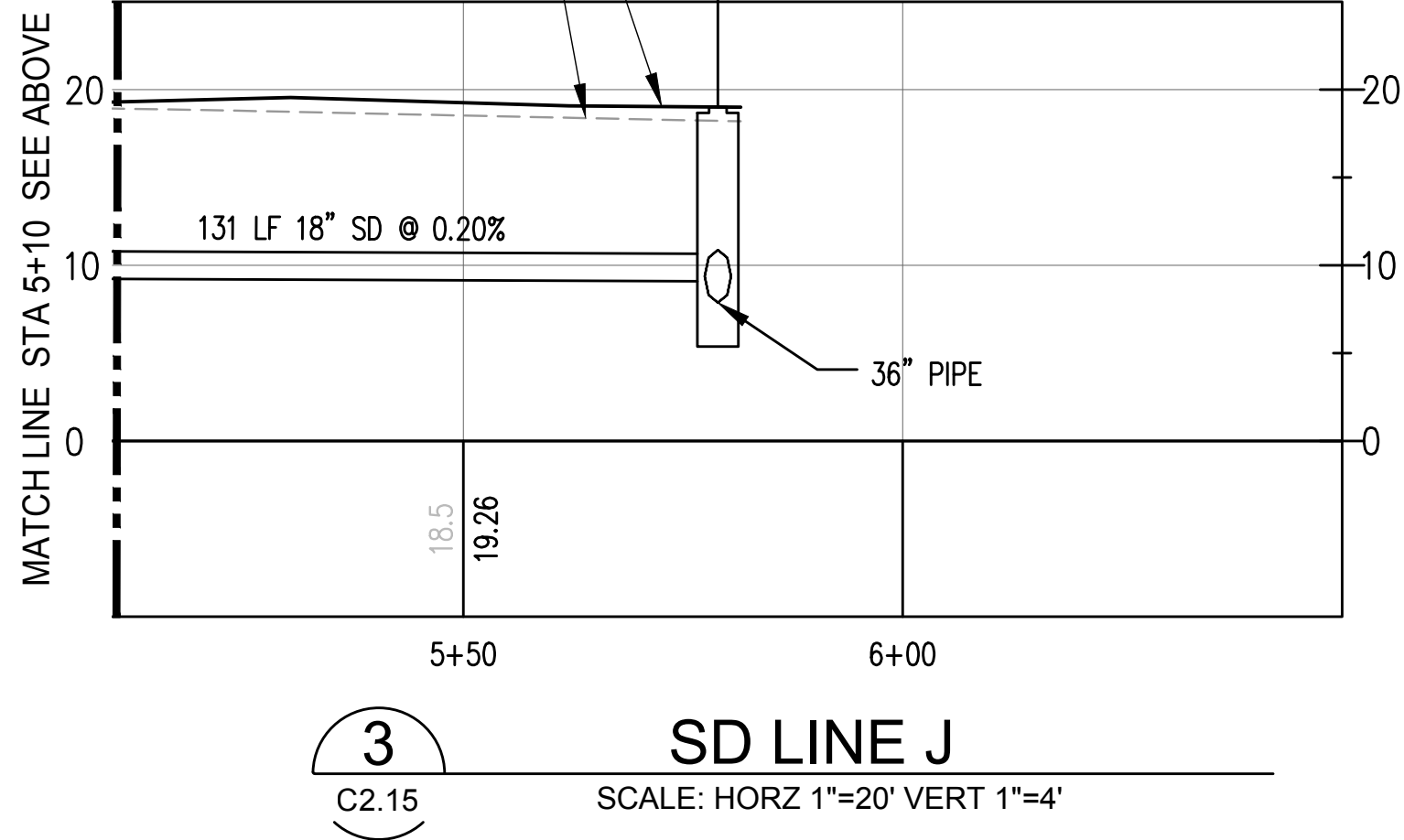
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32761
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ENGINEER
STATE OF WASHINGTON

MARK: REVISION: BY: APPR: DATE:

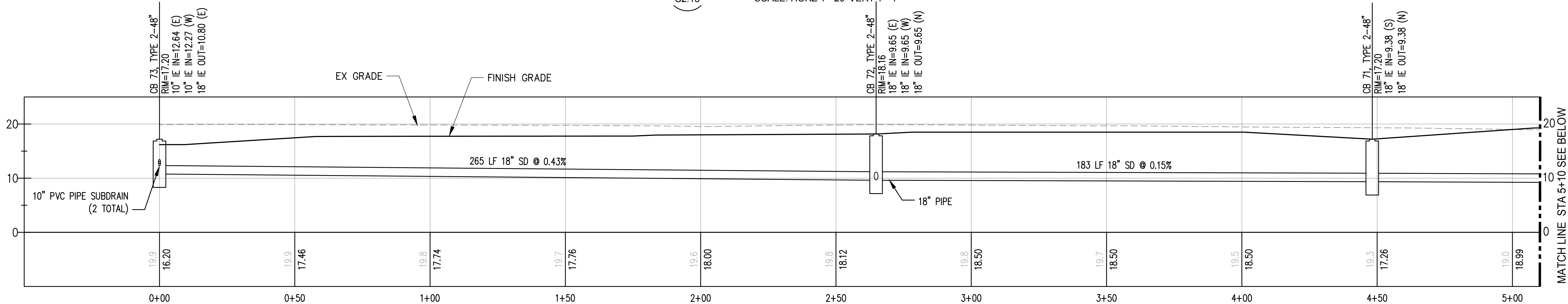
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3
C2.15

SD LINE J

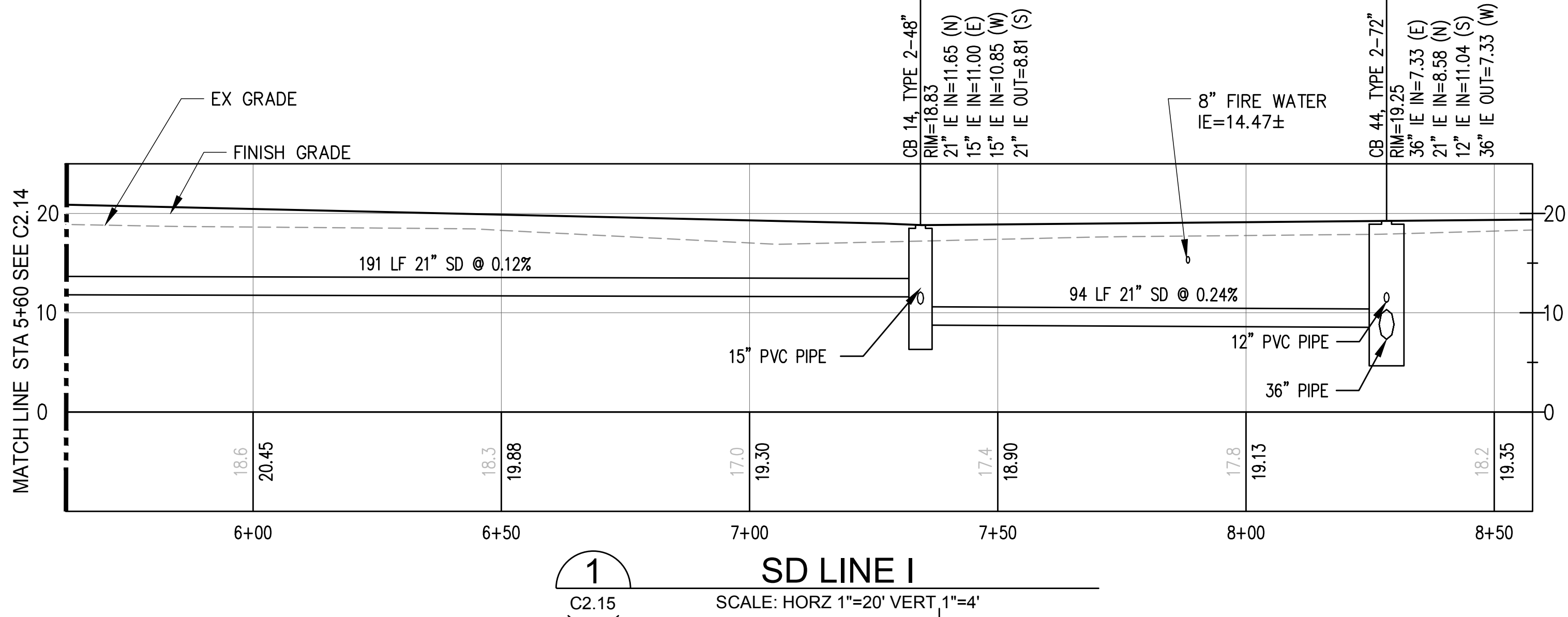
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2
C2.15

SD LINE J

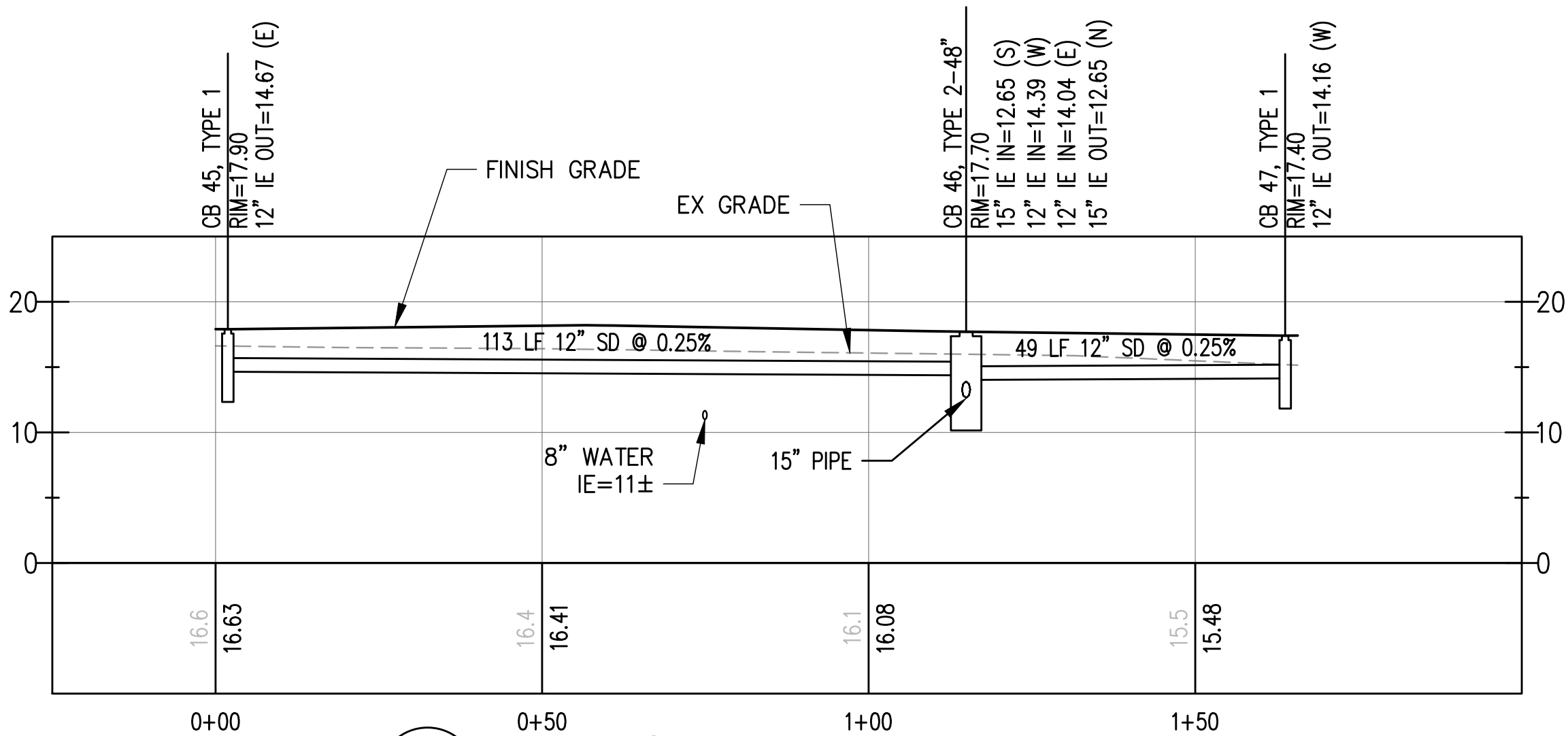
SCALE: HORZ 1"=20' VERT 1"=4'



1
C2.15

SD LINE I

SCALE: HORZ 1"=20' VERT 1"=4'



4
C2.15

SD LINE K

SCALE: HORZ 1"=20' VERT 1"=4'

GENERAL NOTES

- ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.

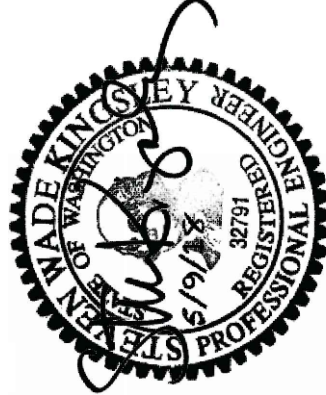


PARCEL 77 AUTO IMPORT TERMINAL

STORM DRAINAGE PROFILES

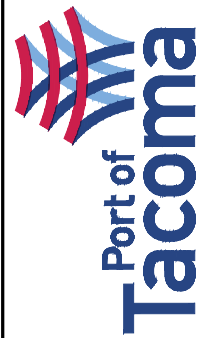
CONT/CONS:	070770	TOWNSHIP:	21N	RANGE:	3E	SECTION:	36
M. ID:	201020.01	DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#		
PHASE:	BID SET	PARCEL:	MULIPLE	DRAWING SCALE:	AS SHOWN		

APPROVED:	CMB	5/7/2018
CHECKED BY	DATE	
SWK	5/9/2018	
DIRECTOR ENG. DATE	PROJ. ENGR	DATE
PRINTED BY: cbennett	May 10, 2018	
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA WA, 98401-1837		

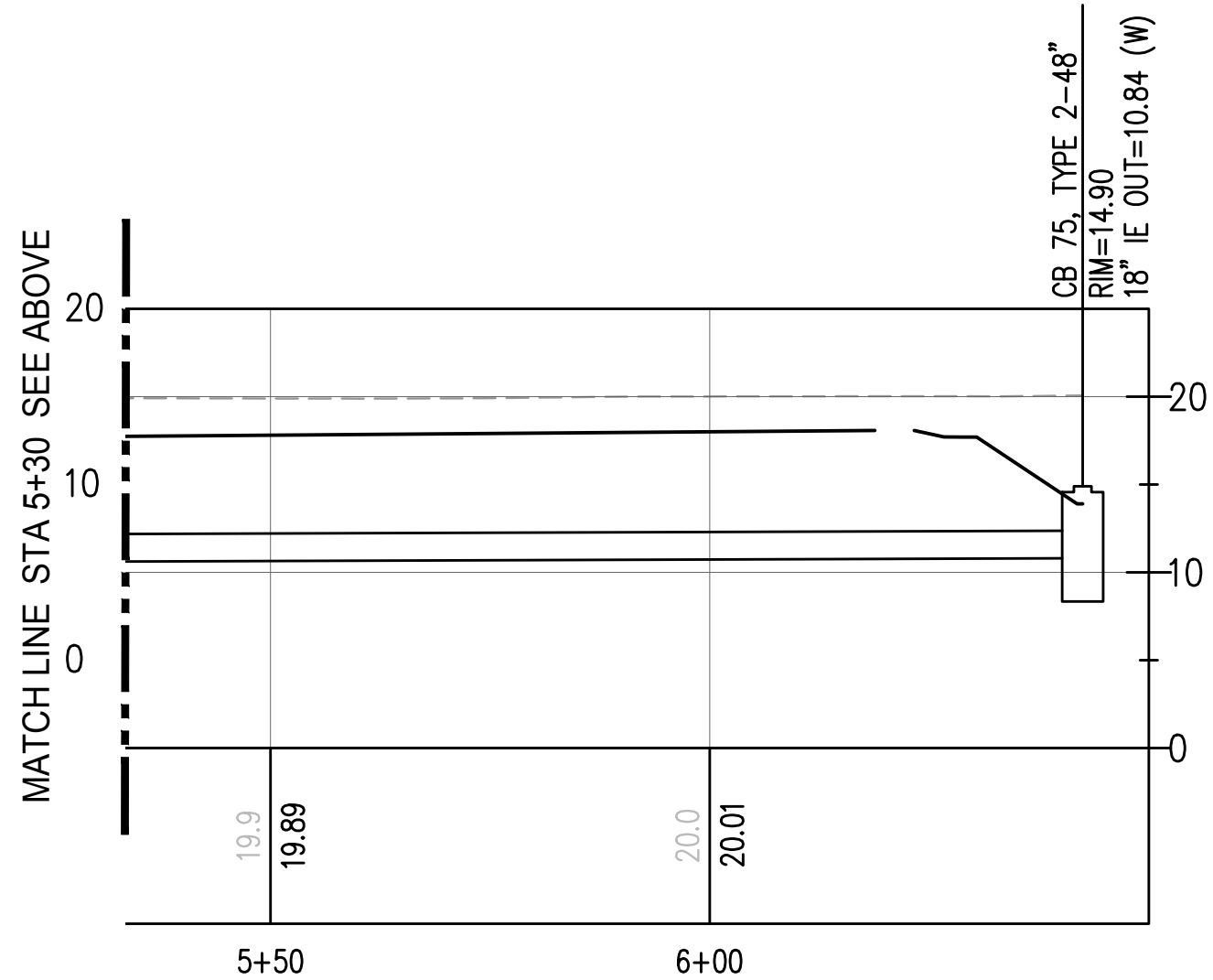


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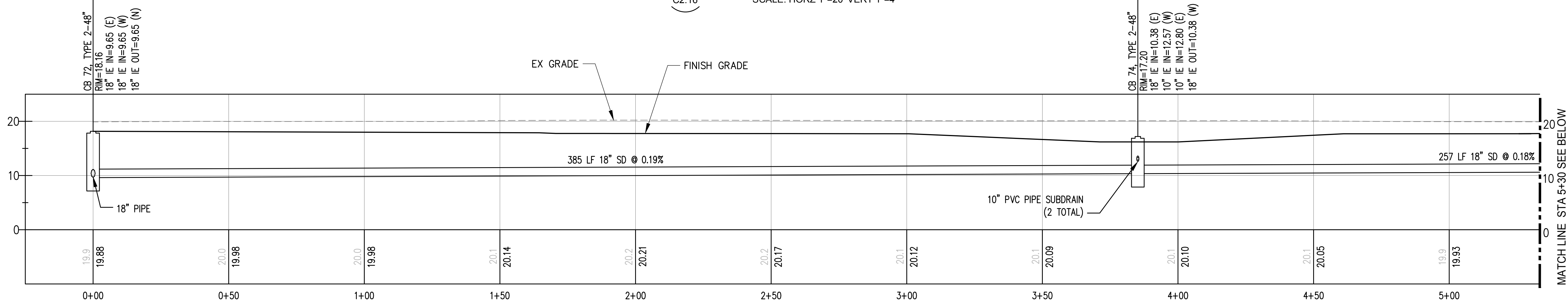
MARK: REVISION: BY: APPR: DATE:



3
C2.16

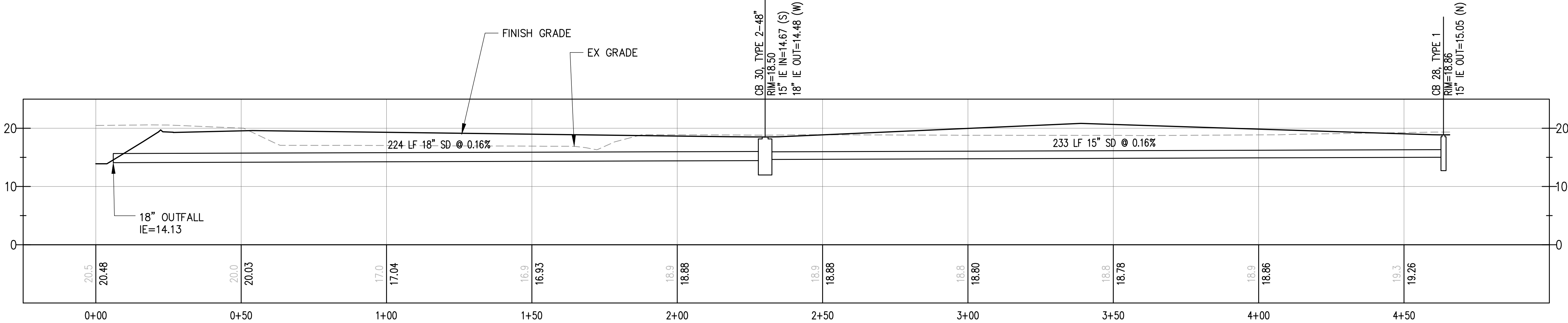
GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.

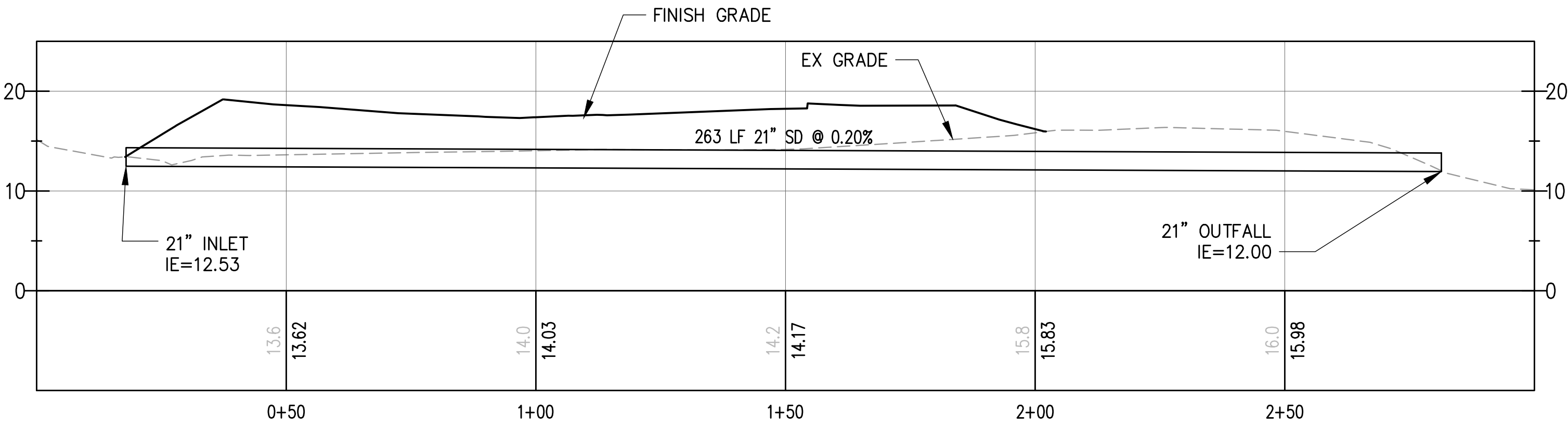


2
C2.16

MATCH LINE STA 5+30 SEE BELOW



1
C2.16

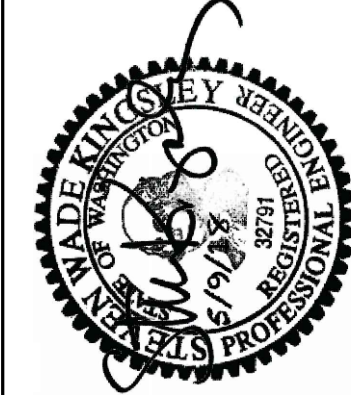


4
C2.16



PARCEL 77 AUTO IMPORT TERMINAL

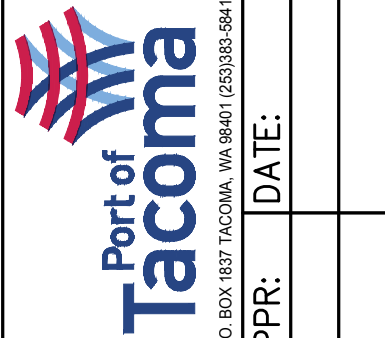
APPROVED:	CMB	5/7/2018
CHECKED BY:	DATE	
SWK	5/9/2018	
DIRECTOR ENG. DATE	PROJ. ENGR	DATE
PRINTED BY: cbennett	May 10, 2018	
PORT ADDRESS: ONE SITCUM PLAZA		
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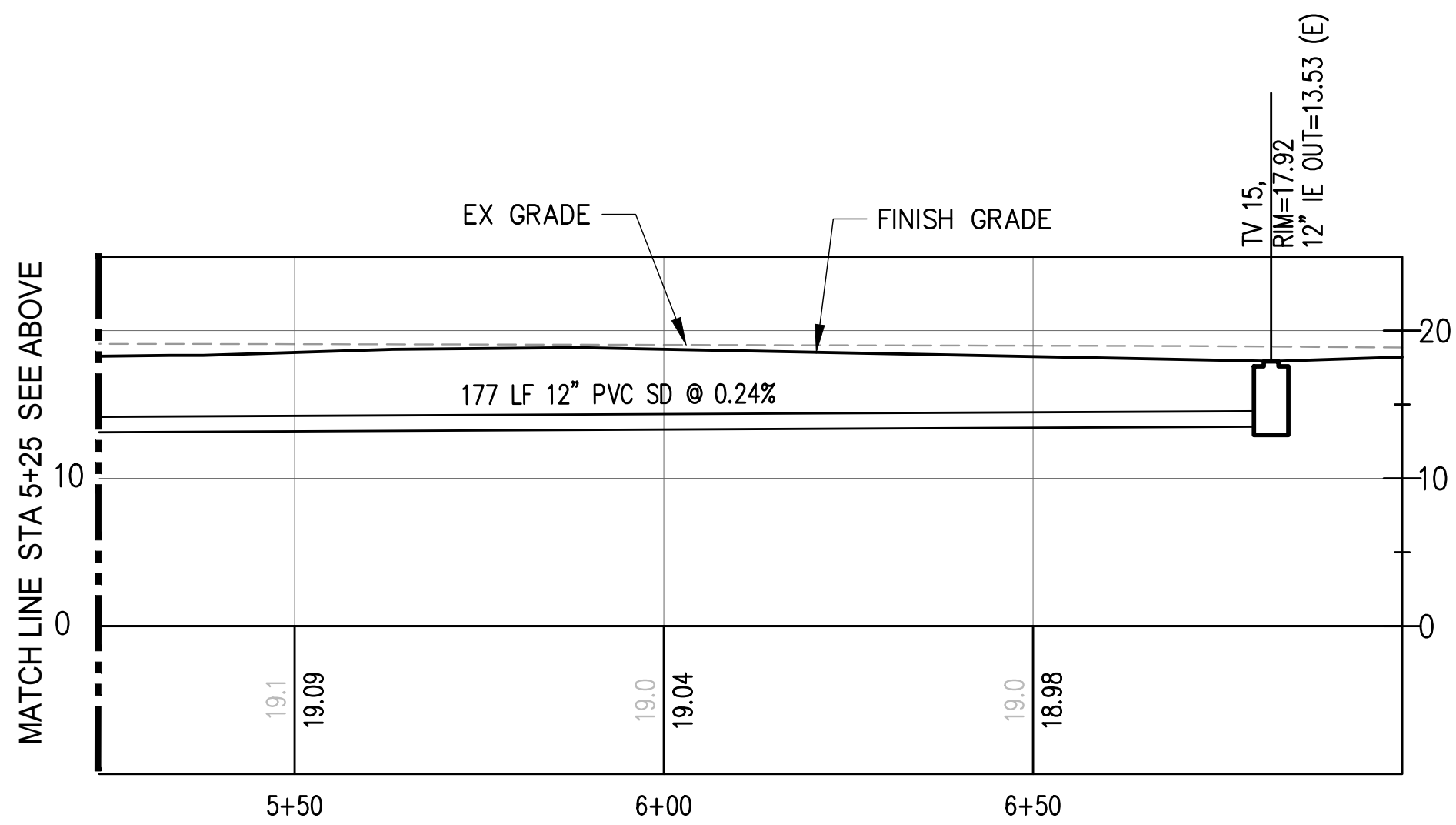


C2.16

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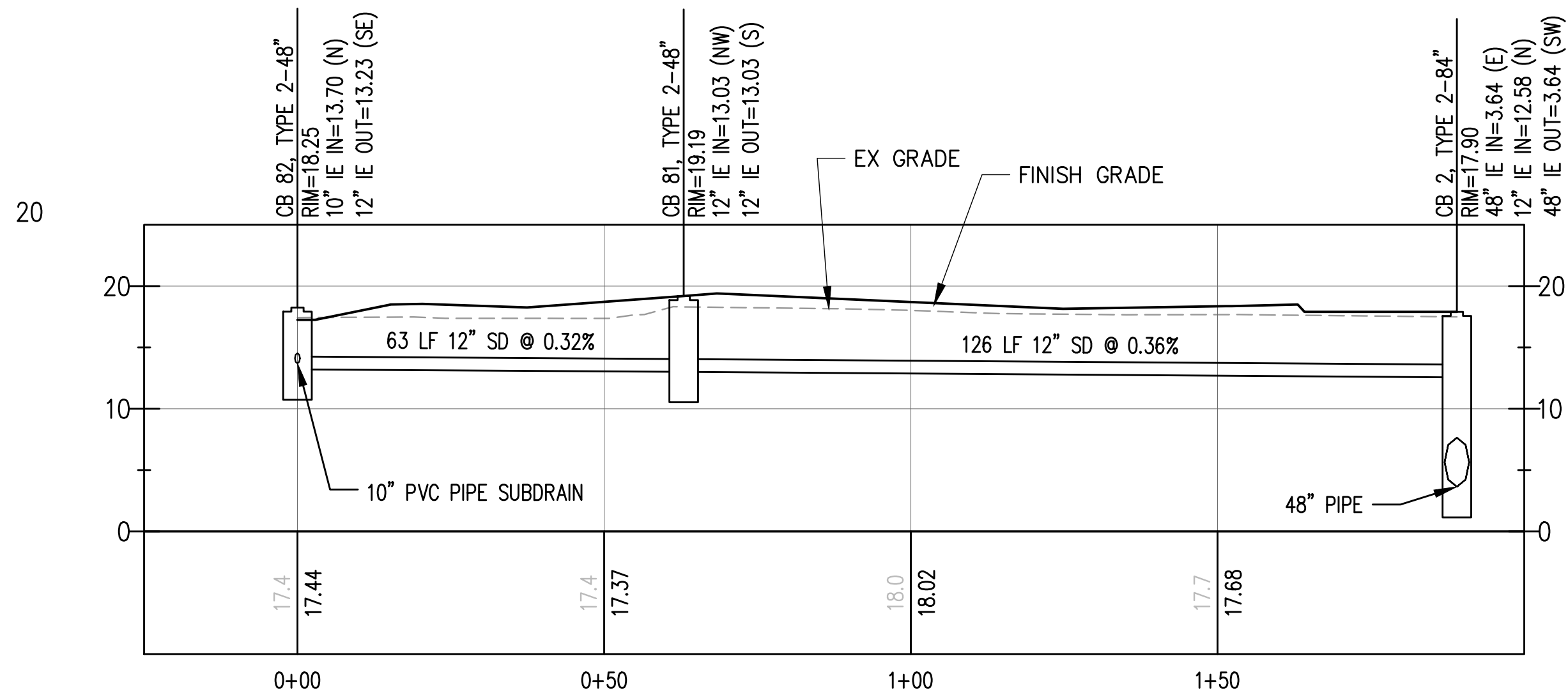
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M. ID:	201020.01	DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#		
PHASE:	BID SET	PARCEL:	MULTIPLE	DRAWING SCALE:	AS SHOWN		

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2 SD LINE O

C2.17 SCALE: HORZ 1"=20' VERT 1"=4'

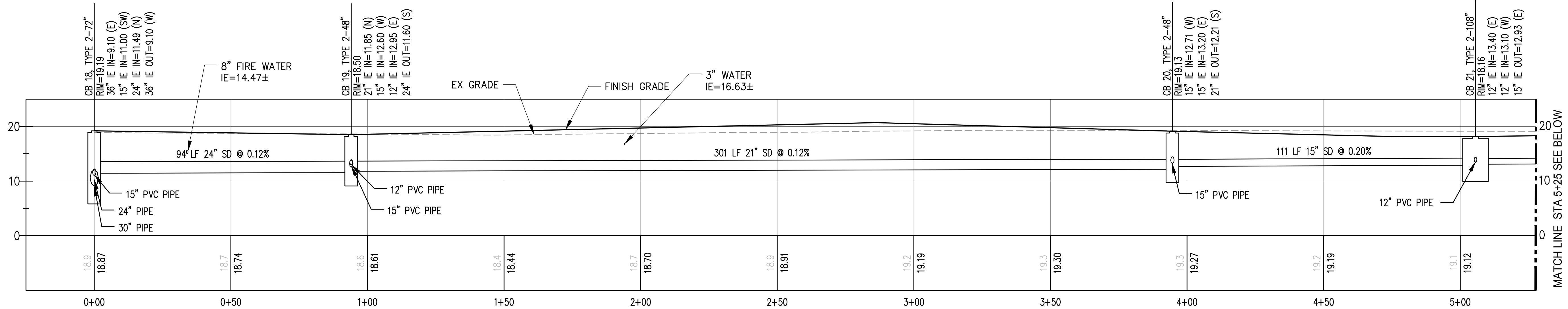


4 SD LINE Q

C2.17 SCALE: HORZ 1"=20' VERT 1"=4'

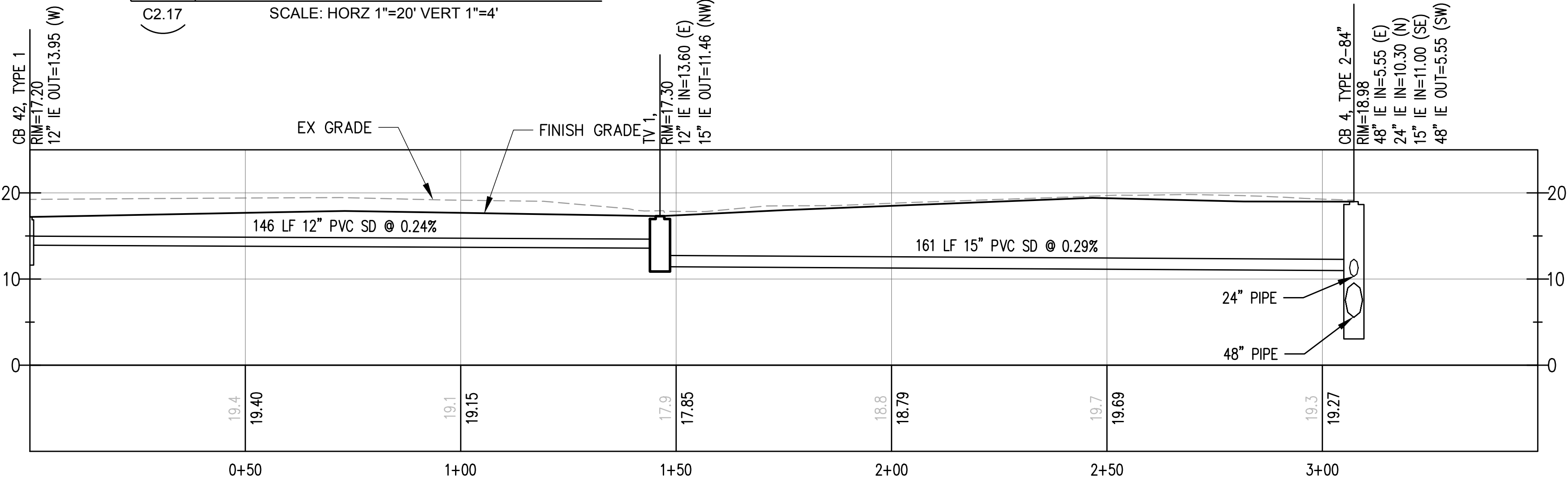
GENERAL NOTES

- ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



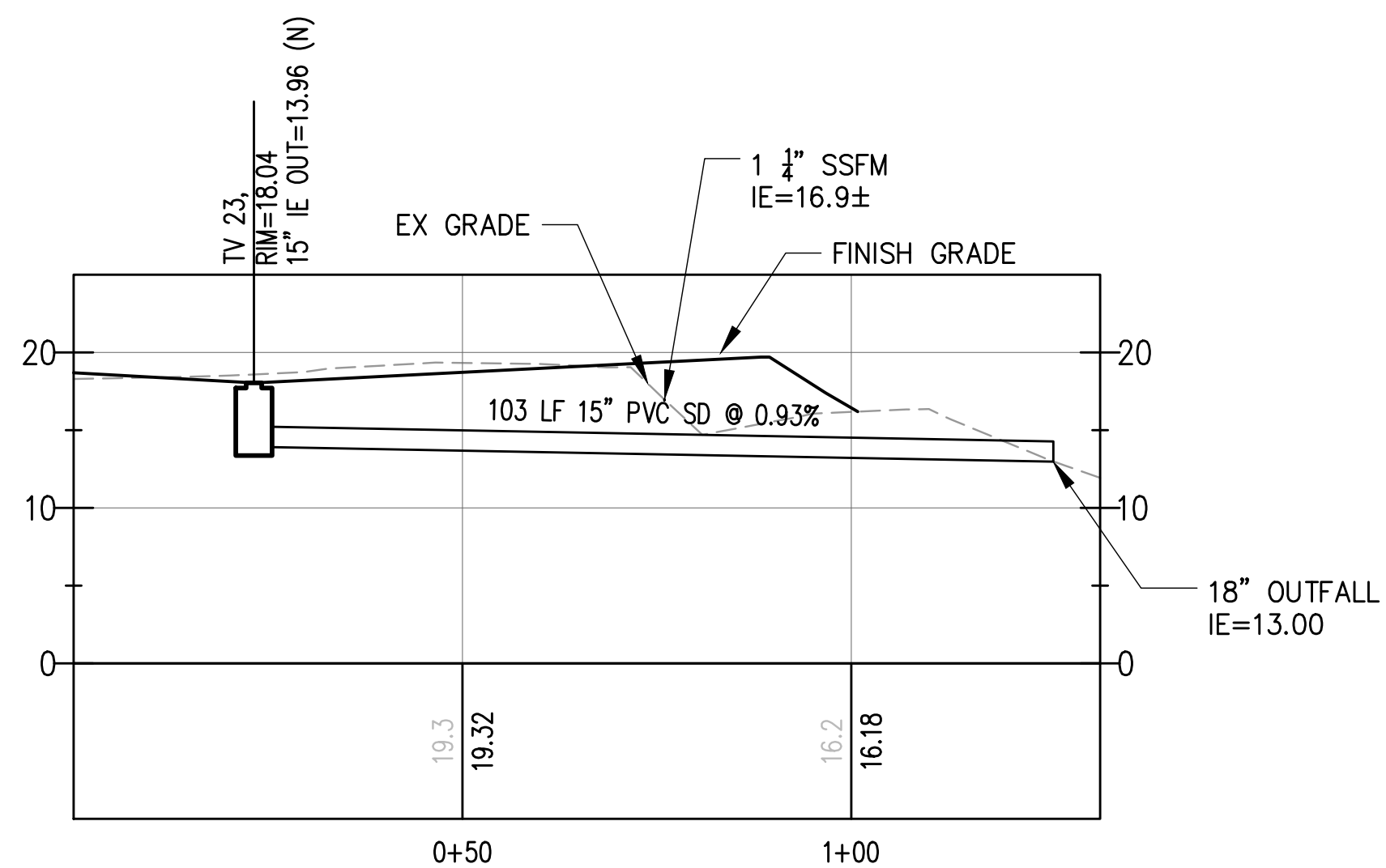
1 SD LINE O

C2.17 SCALE: HORZ 1"=20' VERT 1"=4'



3 SD LINE P

C2.17 SCALE: HORZ 1"=20' VERT 1"=4'



5 SD LINE R

C2.17 SCALE: HORZ 1"=20' VERT 1"=4'

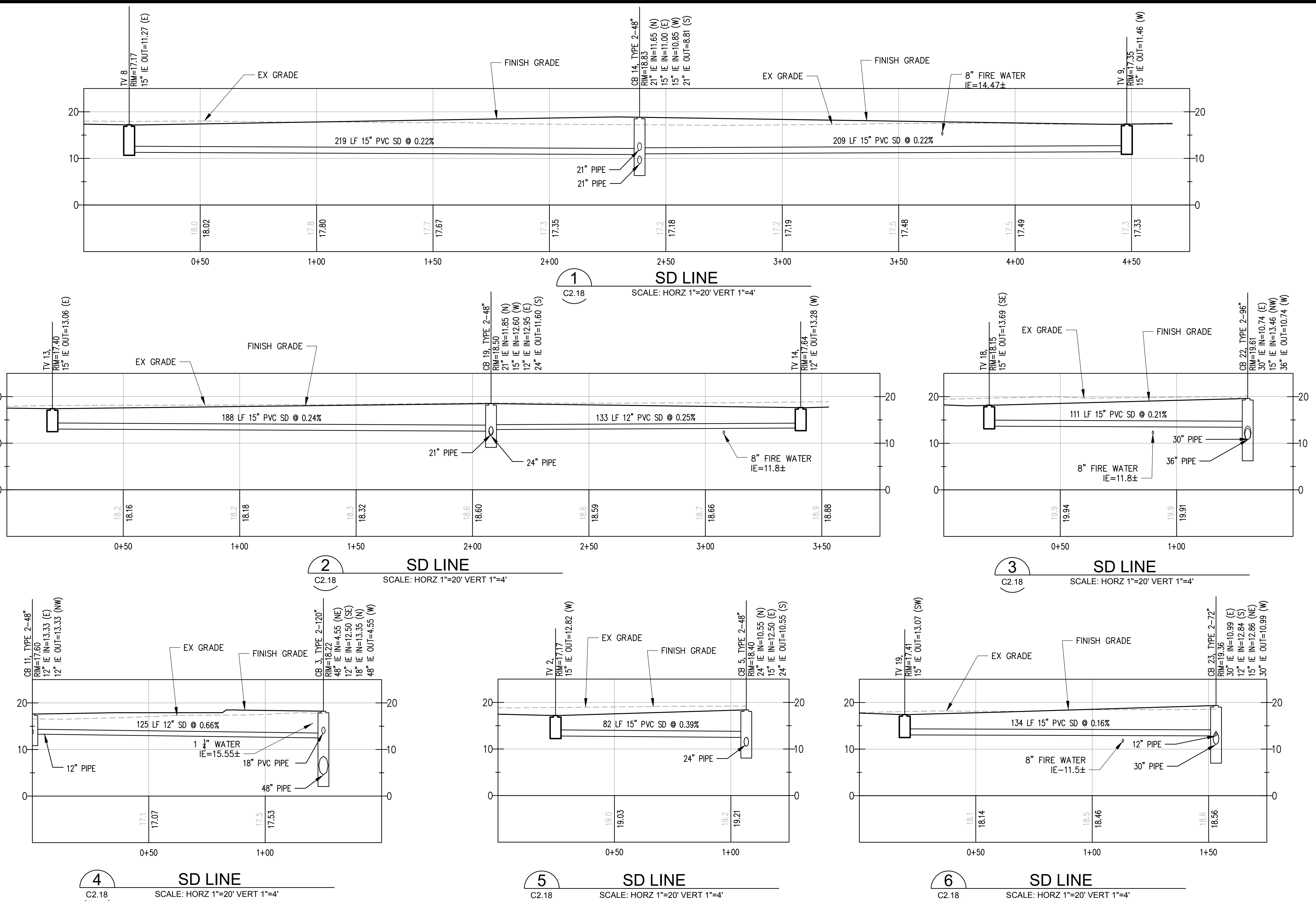


C2.17 67 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:				5/7/2018						
	STORM DRAINAGE PROFILES				CMB				CHECKED BY DATE						
					SWK				5/9/2018						
					DIRECTOR ENG. DATE				PROJ. ENGR DATE						
CONTR/CONS: 070770				TOWNSHIP: 21N				RANGE: 3E				SECTION: 36			
M. ID: 201020.01				DAT-HRZ: W83-SF				VERT: PORT OF TACOMA BM#				PRINTED BY: cbennett May 10, 2018			
PHASE: BID SET				PARCEL: MULTIPLE				DRAWING SCALE: AS SHOWN				PORT ADDRESS: ONE SITCUM PLAZA			
												TACOMA WA 98401-1837			
												DATE:			
												APPR:			
												BY:			
												REVISION:			
												MARK:			
												DATE:			

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Michael R. Kennedy
Professional Engineer
License No. 32761
State of Washington

Port of Tacoma
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GENERAL NOTES

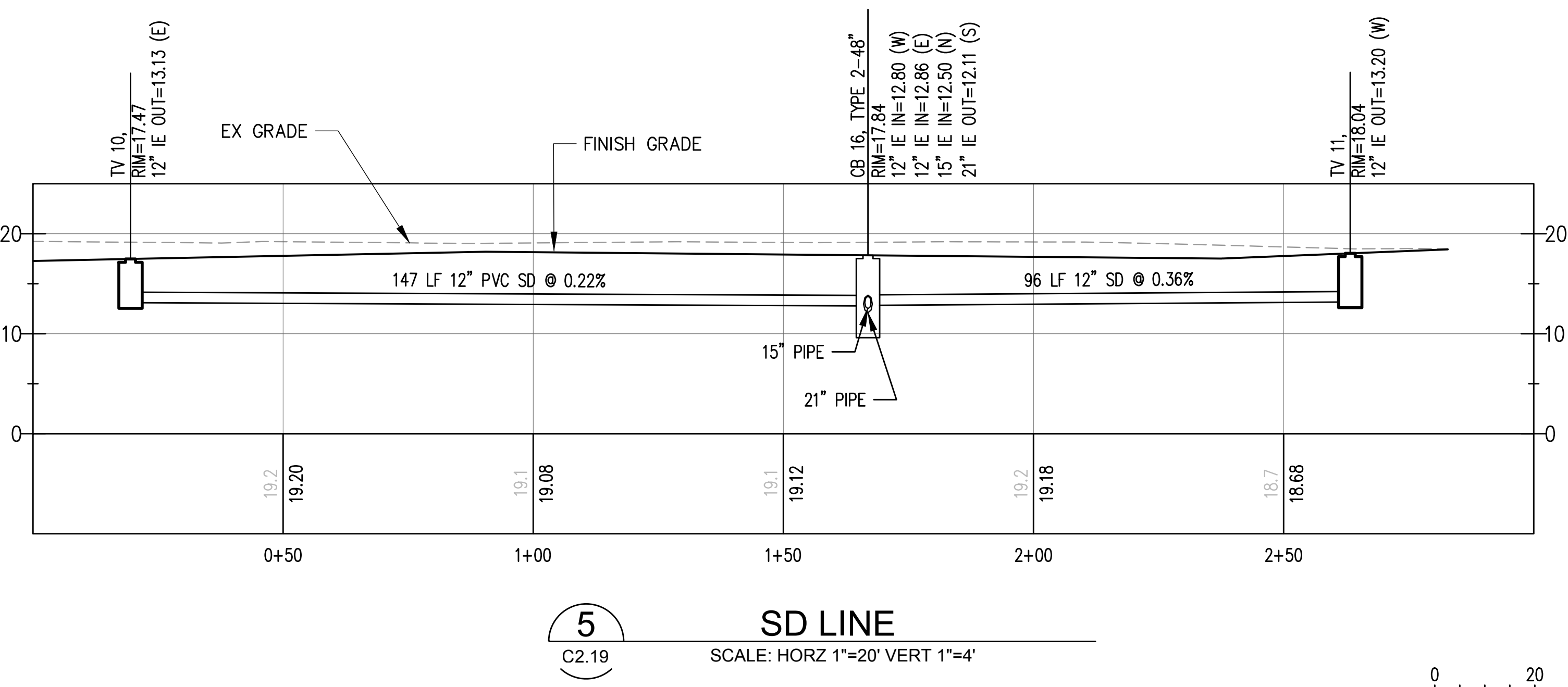
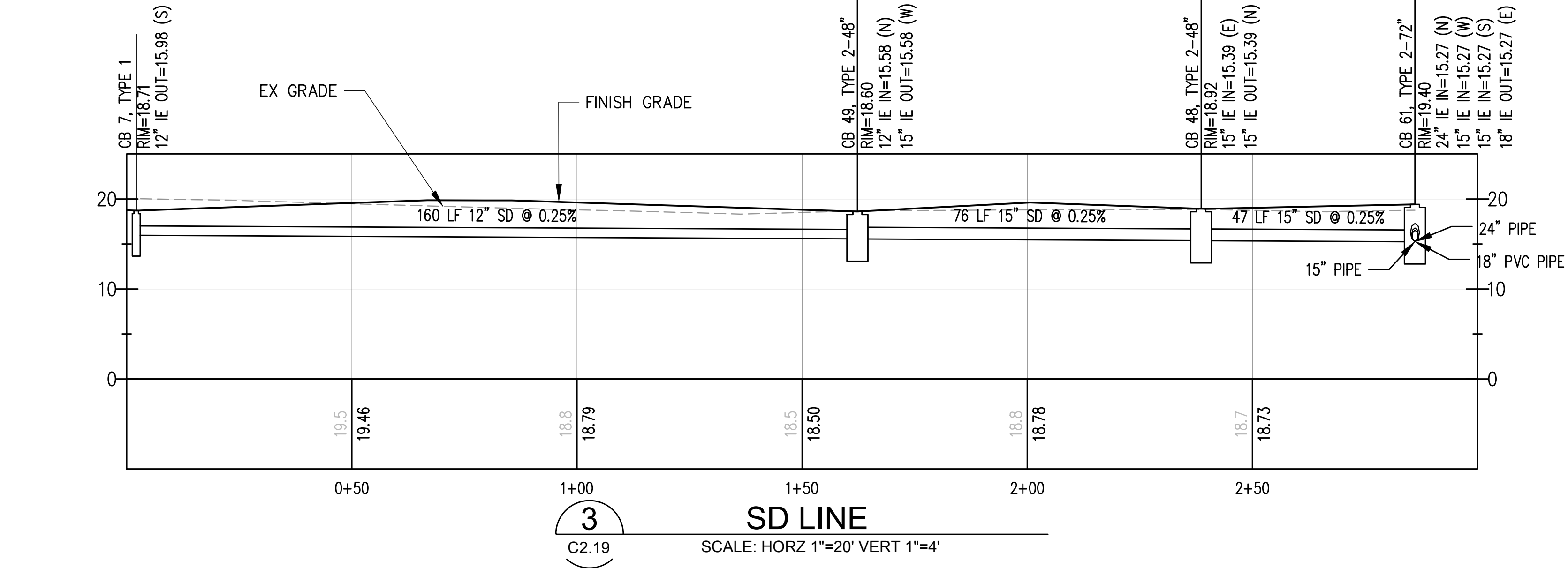
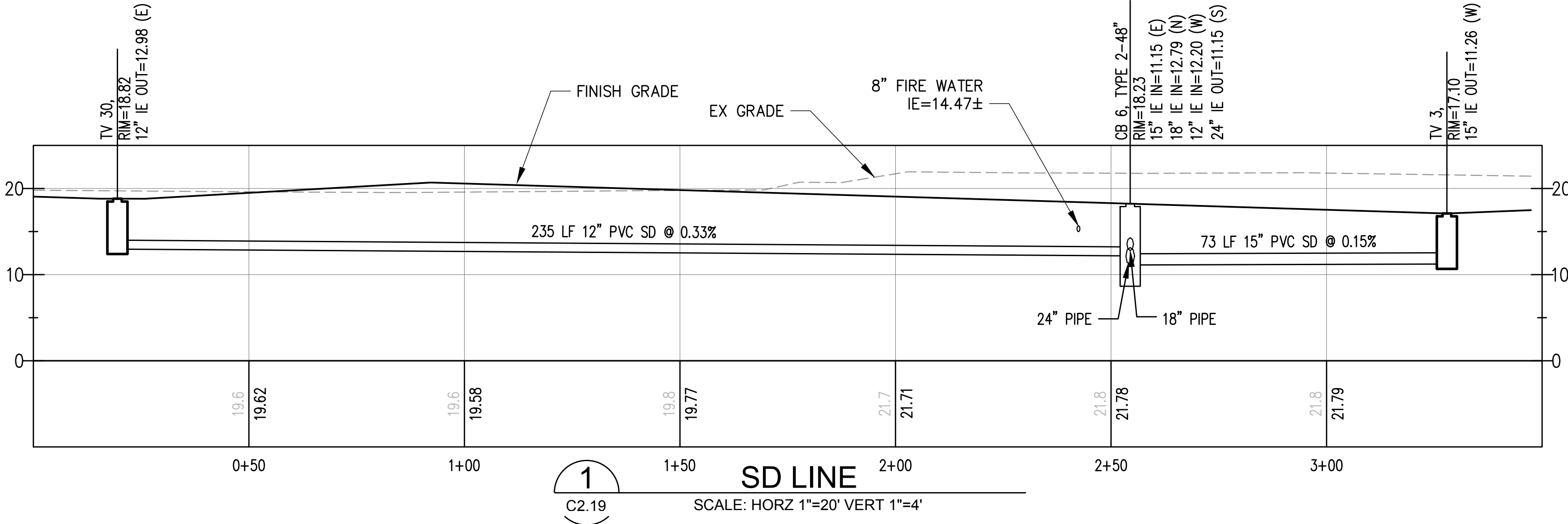
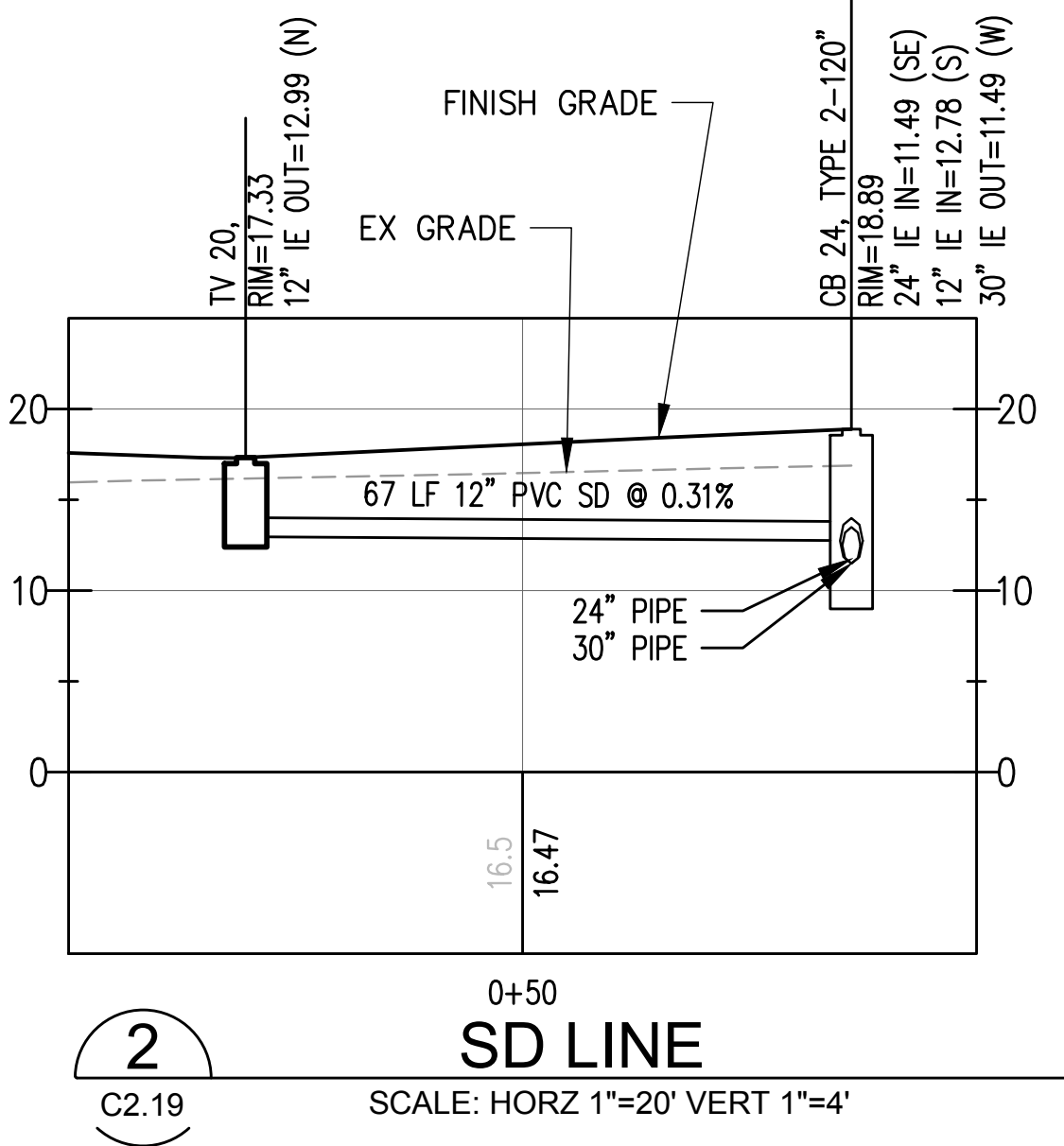
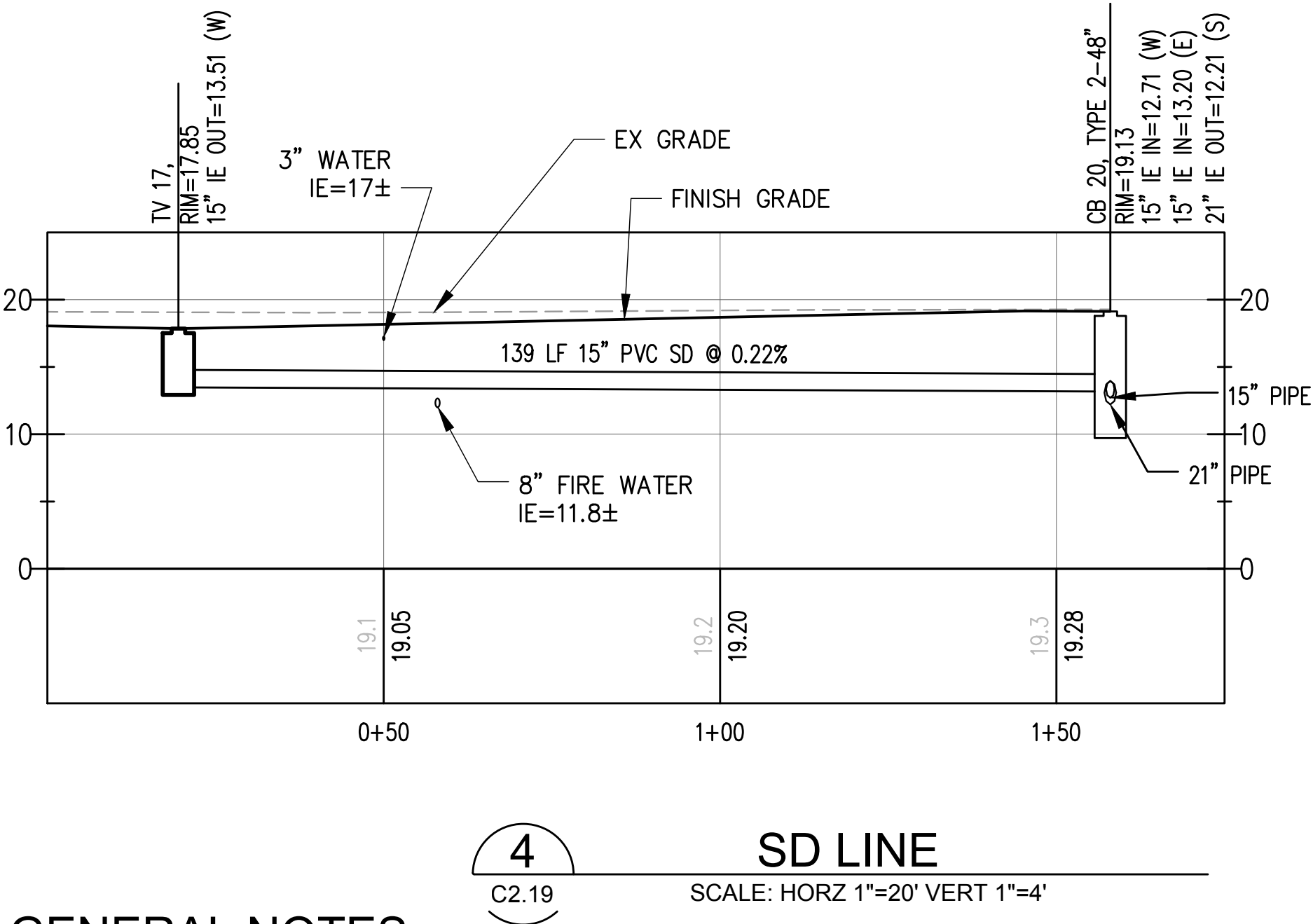
1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.18 68 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:	CMB	5/7/2018	 Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-0162				
	STORM DRAINAGE PROFILES				CHECKED BY	DATE						
	TOWNSHIP: 21N RANGE: 3E SECTION: 36				SWK	5/9/2018						
	DATE-HRZ: W83-SF VERT: PORT OF TACOMA BM#				PROJ. ENGR	DATE						
CONT/CONS: 070770	M. ID: 201020.01	PHASE: BID SET	PARCEL: MUI TYPE	DRAWING SCALE: AS SHOWN	PRINTED BY: cbennett	May 10, 2018	TACOMA WA 98401-1837	MARK:	REVISION:	BY:	APPR:	DATE:

GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.19
69 OF 163

PARCEL 77 AUTO IMPORT TERMINAL

STORM DRAINAGE
PROFILES

CONT/CONS:	070770	TOWNSHIP:	21N	RANGE:	3E	SECTION:	36
M. ID:	201020.01	DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#		
PHASE:	BID SET	PARCEL:	MULIPLE	DRAWING SCALE:	AS SHOWN		

APPROVED:	CMB	5/7/2018
CHECKED BY	DATE	
SWK	5/9/2018	
DIRECTOR	ENG. DATE	PROJ. ENGR DATE
PRINTED BY:	chennett May 10, 2018	
PORT ADDRESS:	ONE SITCUM PLAZA	
TACOMA WA	98401-1837	



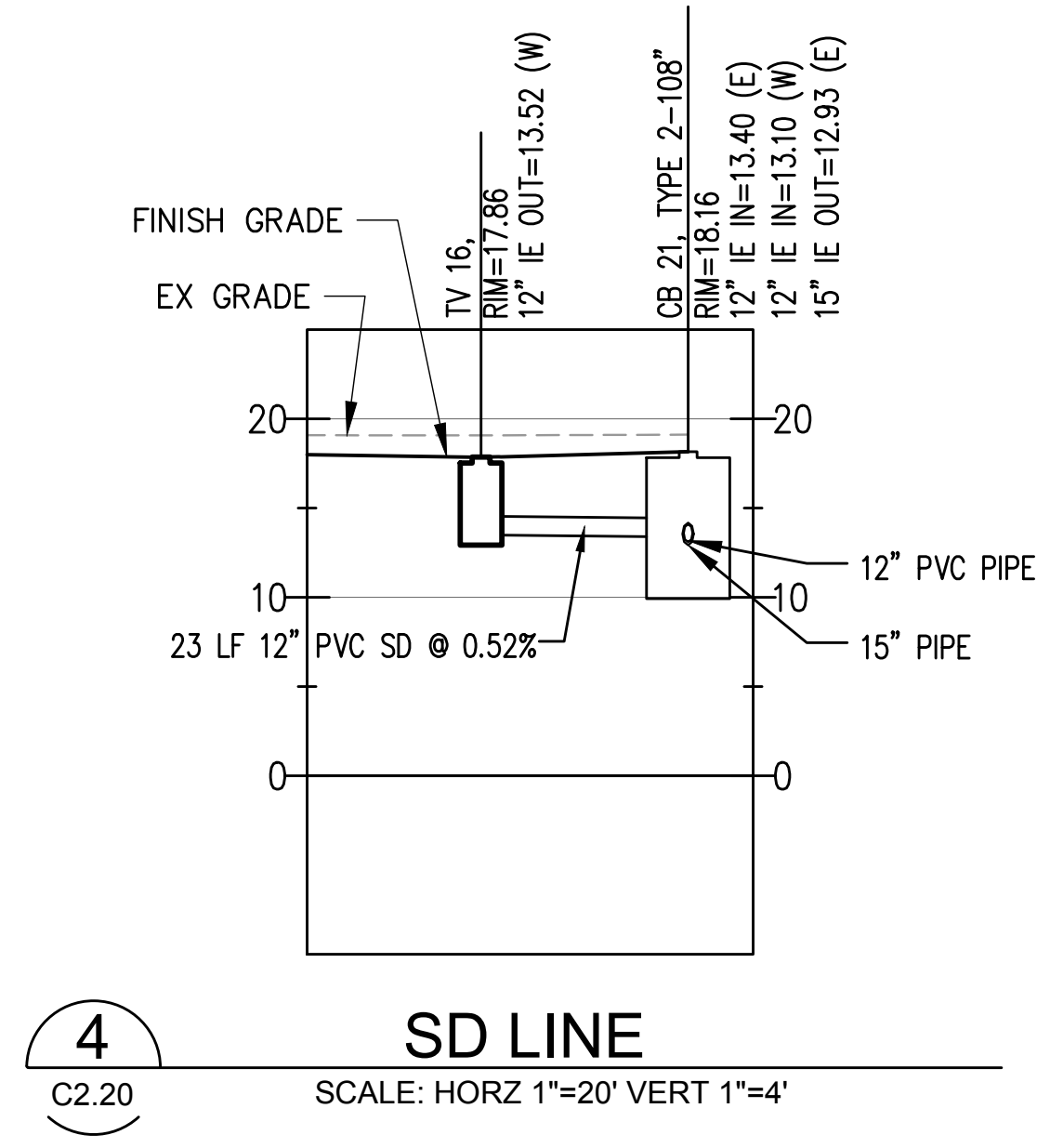
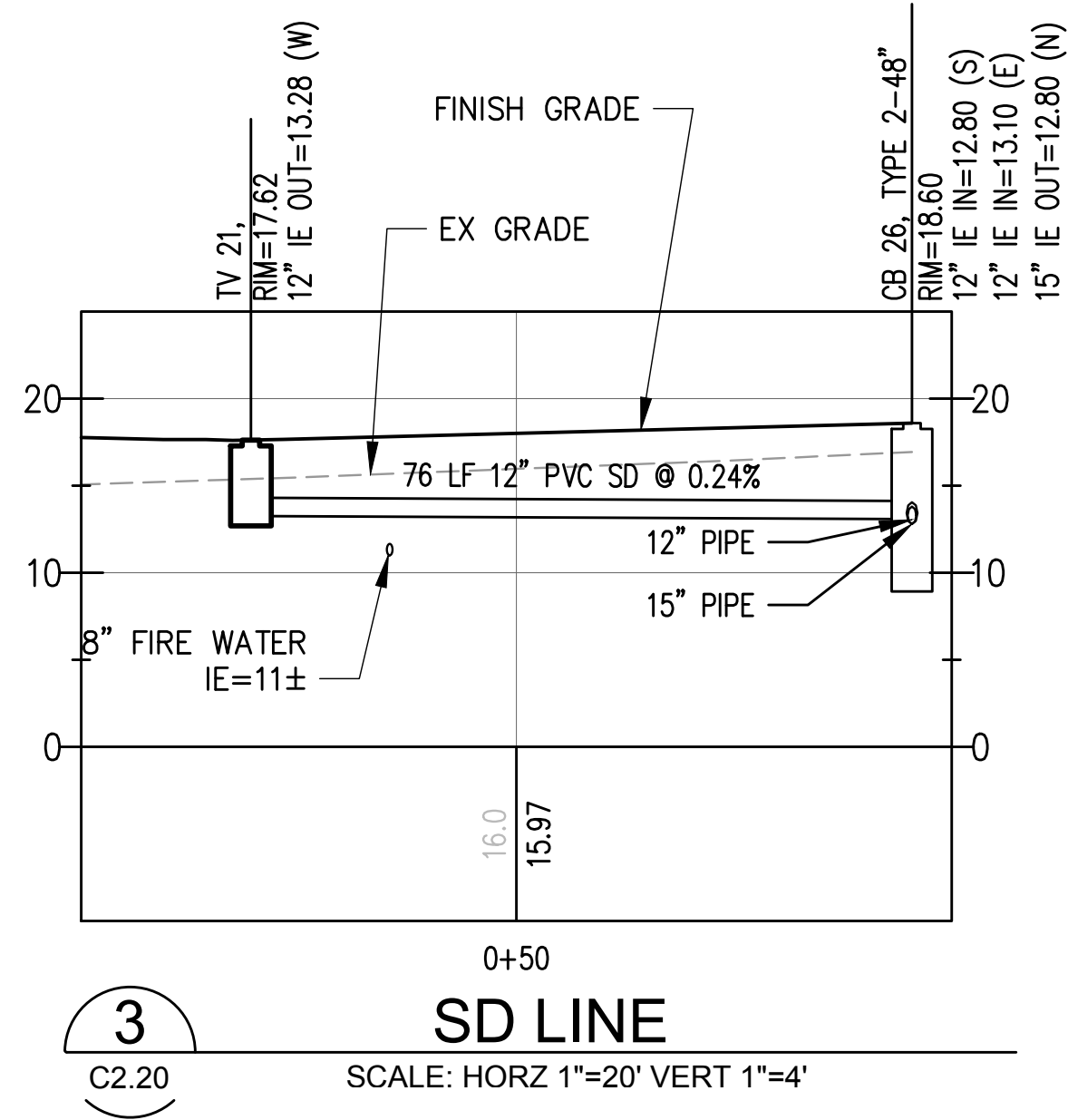
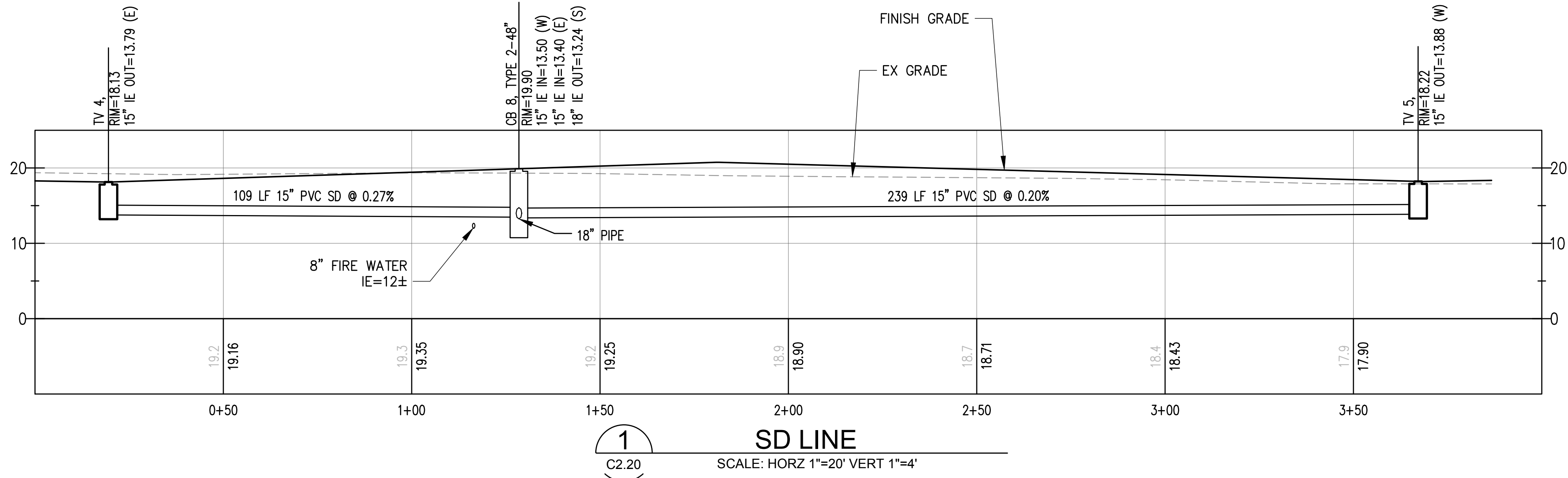
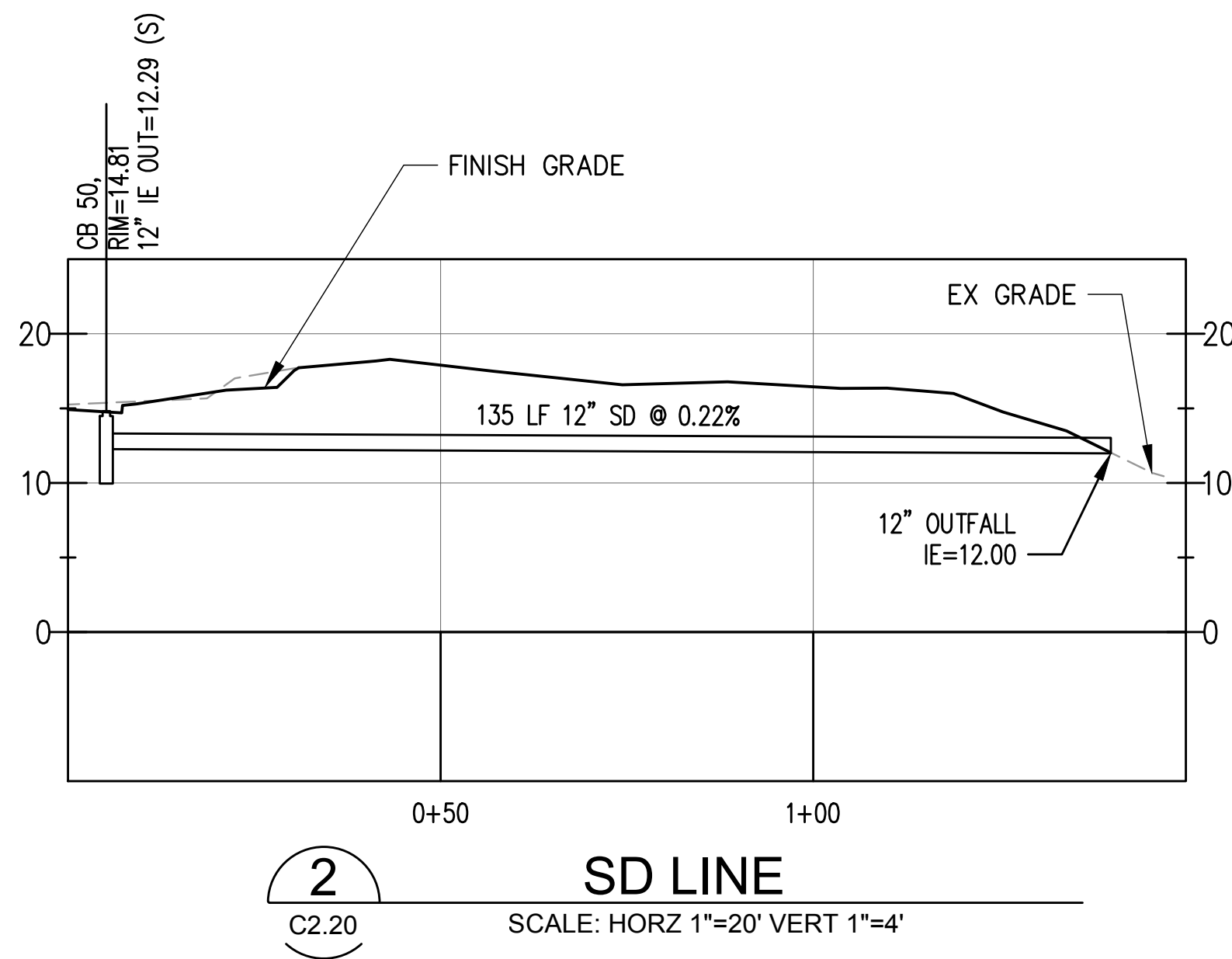
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Tacoma, Washington 98407
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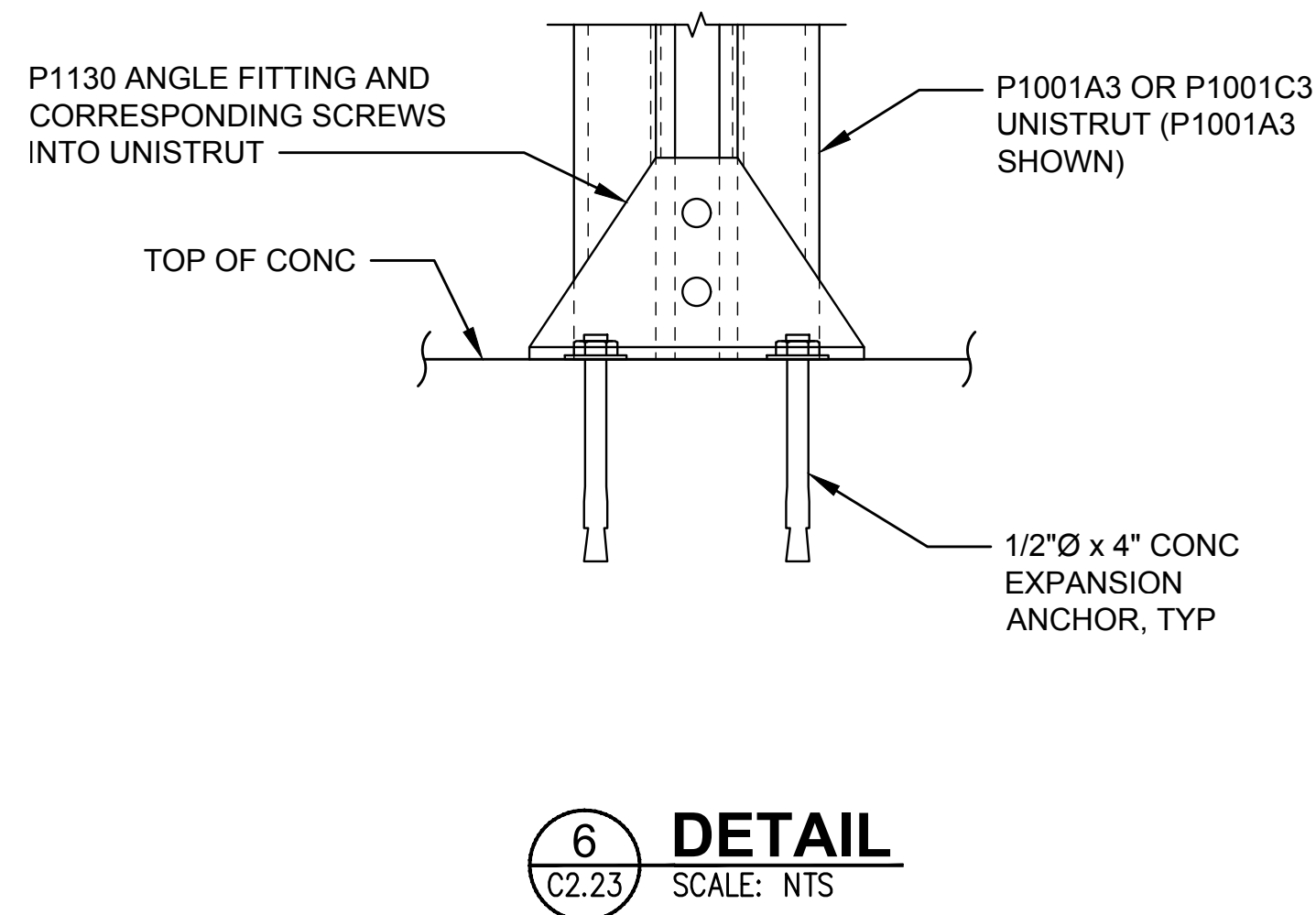
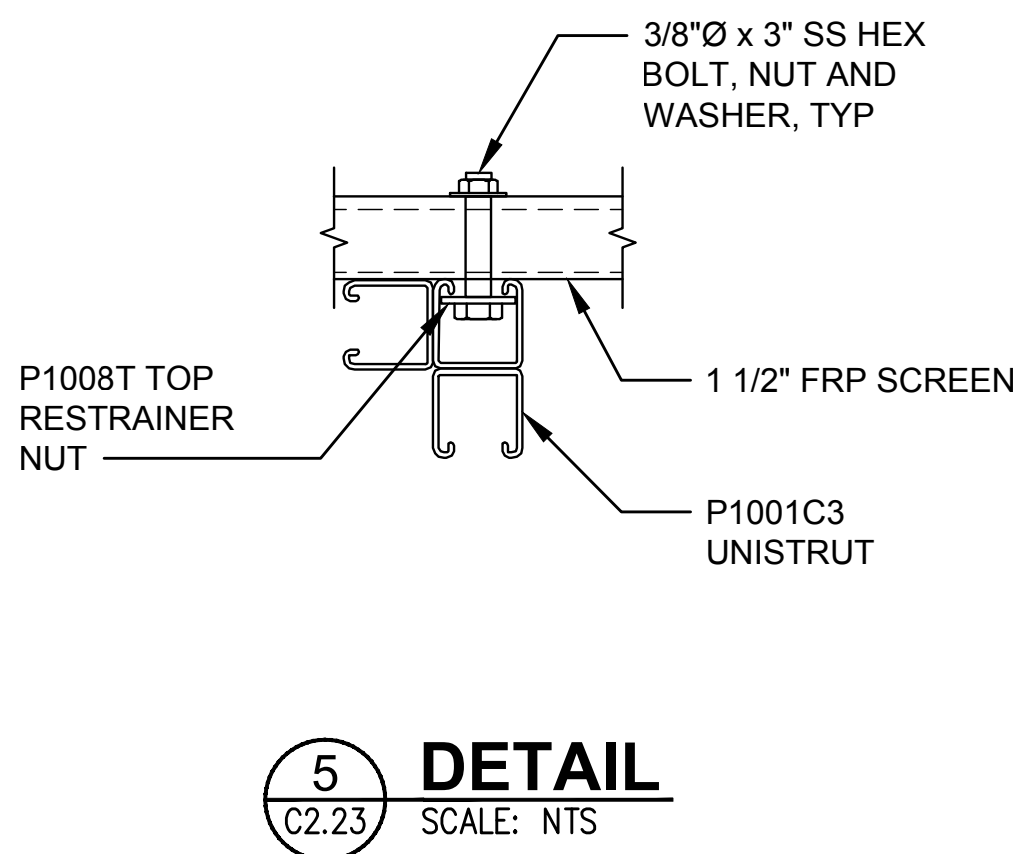
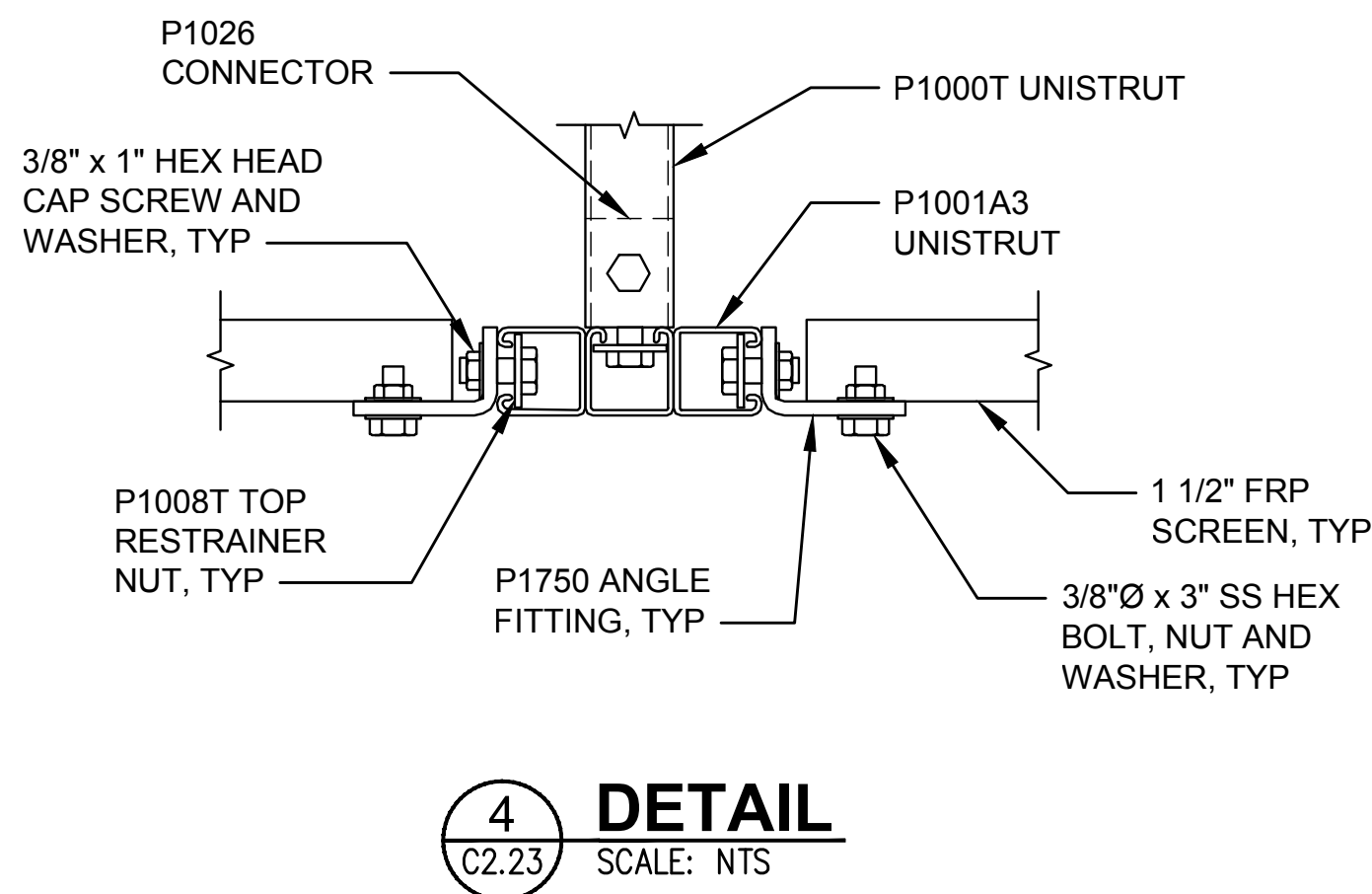
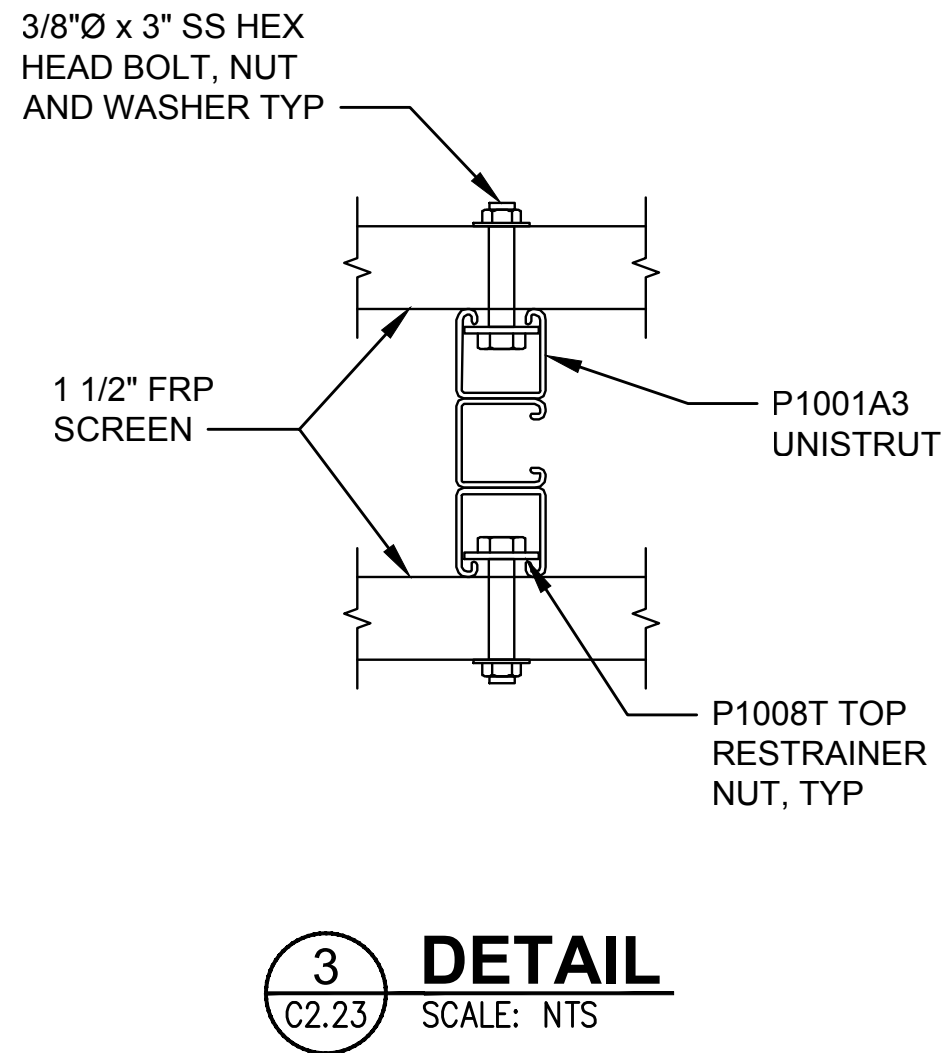
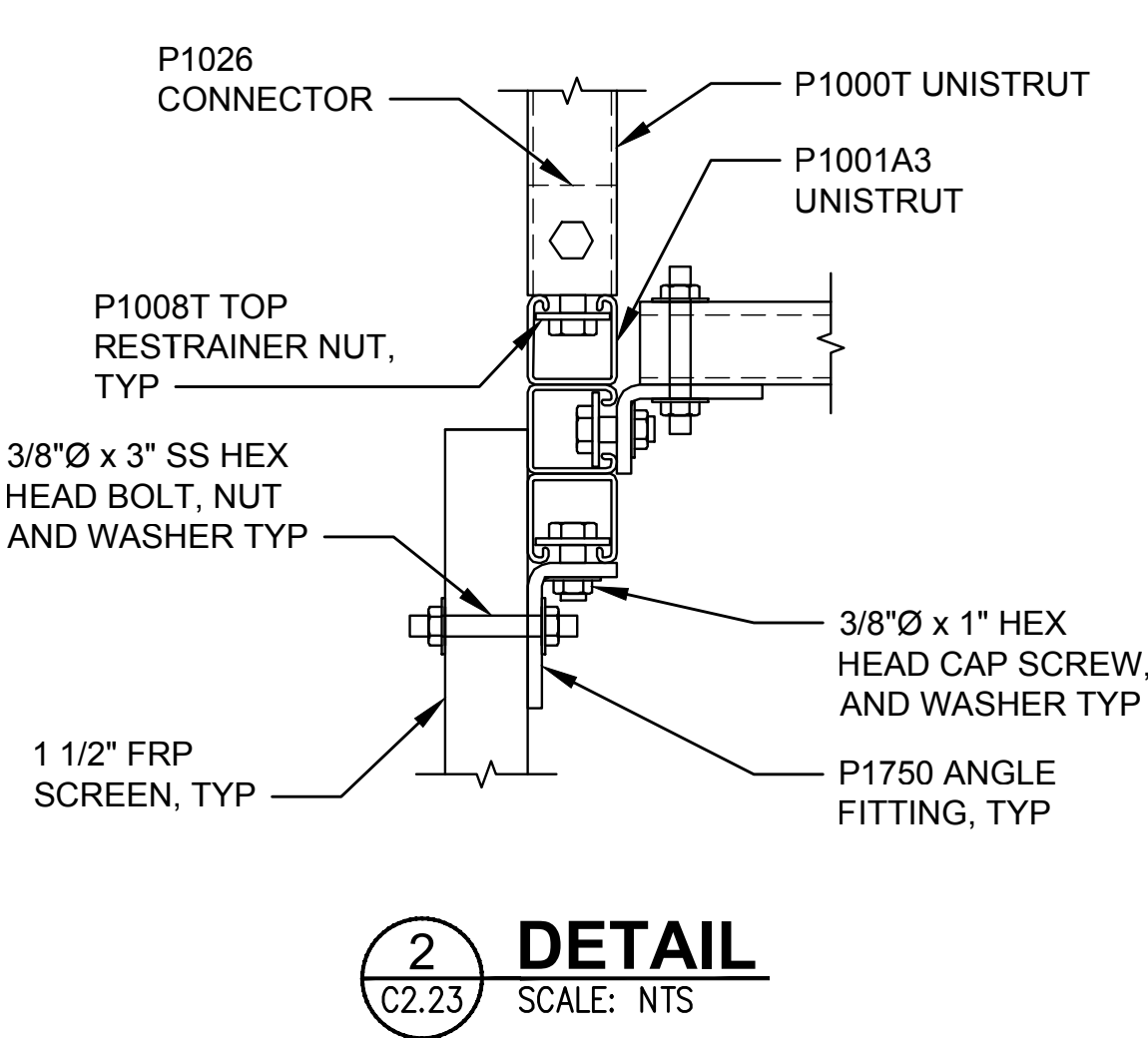
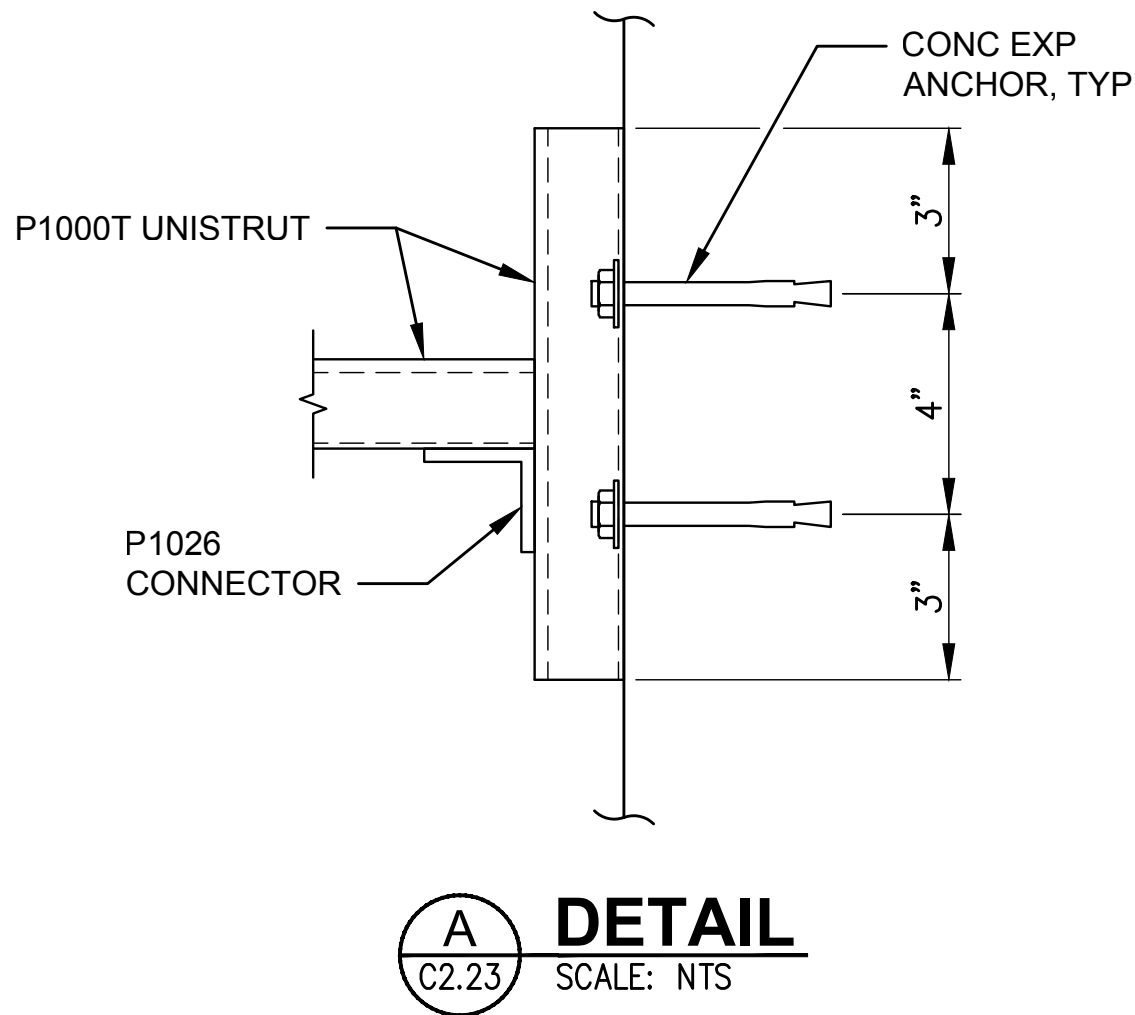
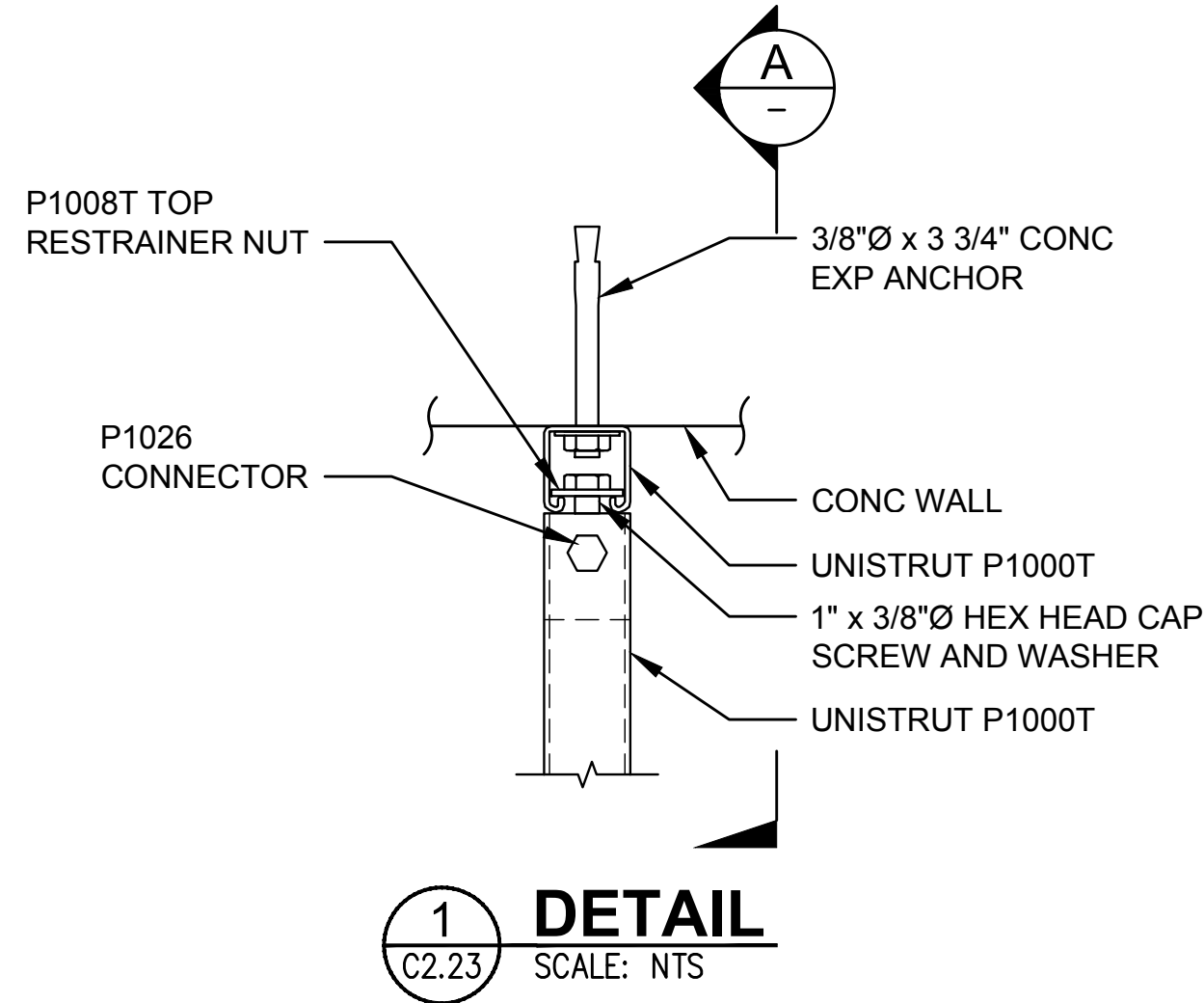
MARK:	REVISION:	BY:	APPR:	DATE:

GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN NAVD88 VERTICAL DATUM.



C2.20 70 OF 163		PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB 5/7/2018		  2407 North 31st Street, Suite 100 Seattle, WA 98107 (206) 396-0150 Fax (206) 396-0162  P.O. BOX 1837 TACOMA, WA 98401 (253) 393-3844	
CON/CONS: 070770		TOWNSHIP: 21N		RANGE: 3E		SECTION: 36		CHECKED BY		DATE	
M. ID: 201020.01		DAT-HRZ: W83-SF		VERT:		PORT OF TACOMA BM#		SWK		5/9/2018	
PHASE: BID SET		PARCEL: MULTIPLE		DRAWING SCALE:		AS SHOWN		DIRECTOR ENG. DATE		PROJ. ENGR DATE	
								PRINTED BY: cbennett		May 10, 2018	
								PORT ADDRESS: ONE SITCUM PLAZA			
								TACOMA WA, 98401-1837			
								MARK:		REVISION:	
								BY:		APPR:	
								DATE:			

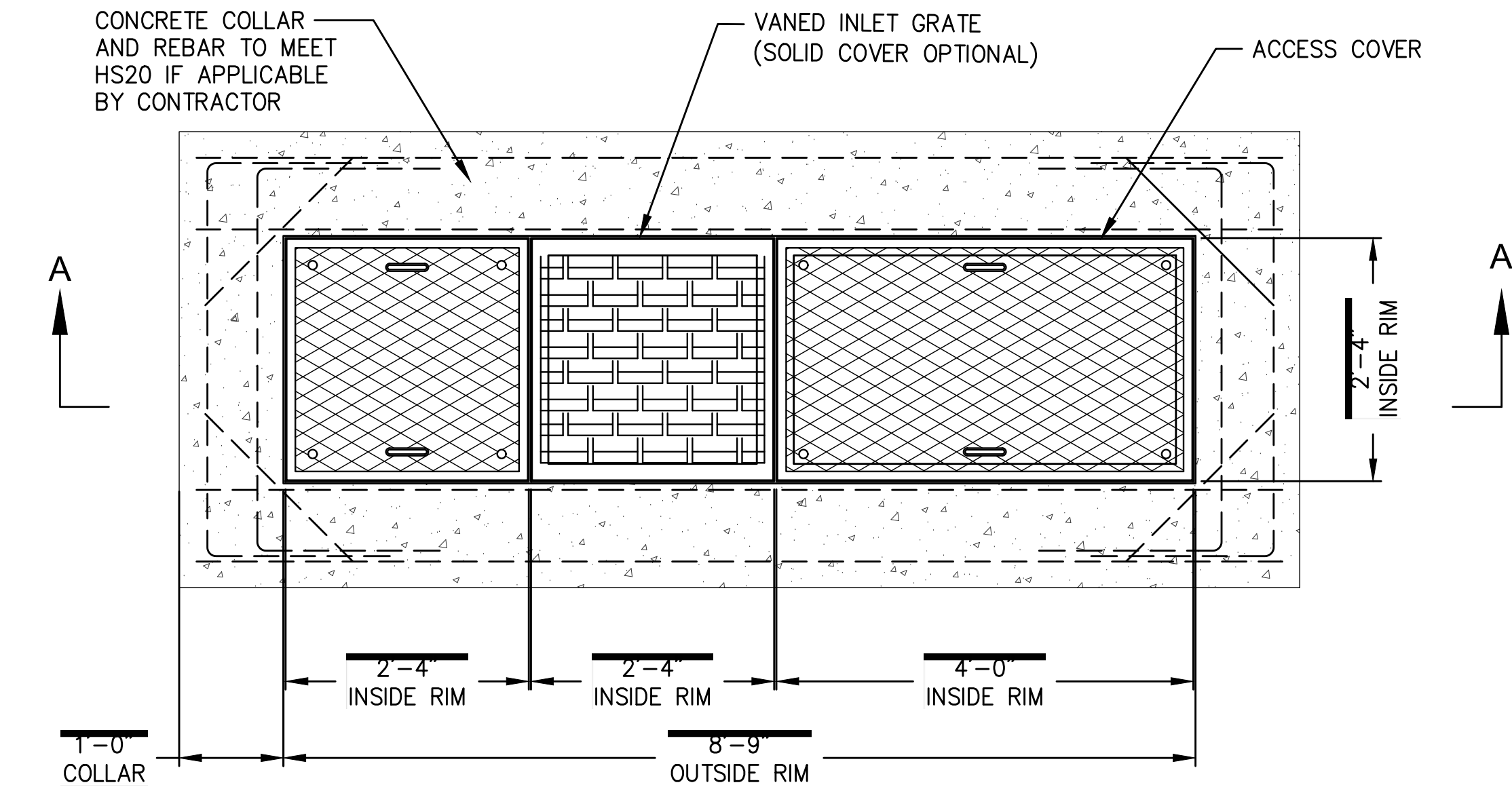


C2.23 73 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB	5/7/2018	
	STORMWATER TREATMENT VAULT DETAILS				CHECKED BY: DATE		SWK	5/9/2018	
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DIRECTOR ENG. DATE		PROJ. ENGR	DATE		
	CONTRACT/CONS: 070770	DIST-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PRINTED BY: chennett		May 10, 2018			
M. ID: 201020.01	PARCEL: MUI.TIPLE	DRAWING SCALE: AS SHOWN	PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837				
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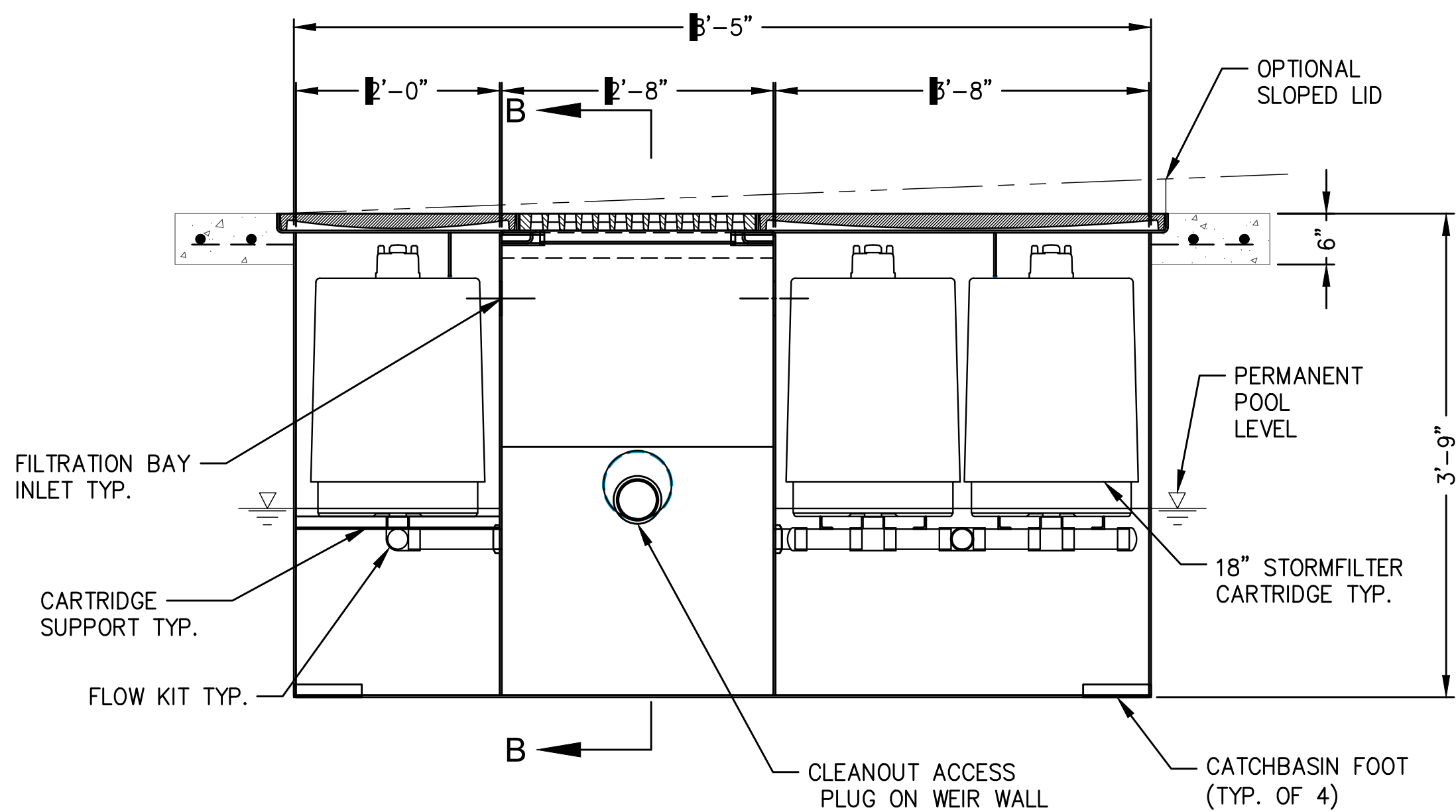
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Professional

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841



PLAN VIEW



SECTION A-A

FOR REFERENCE ONLY

STORMFILTER DETAIL

1
C2.24

NTS

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 3 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF THREE CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL. PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2	1.67	1	2	1.67	1	2	1.67	1
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			1.8		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

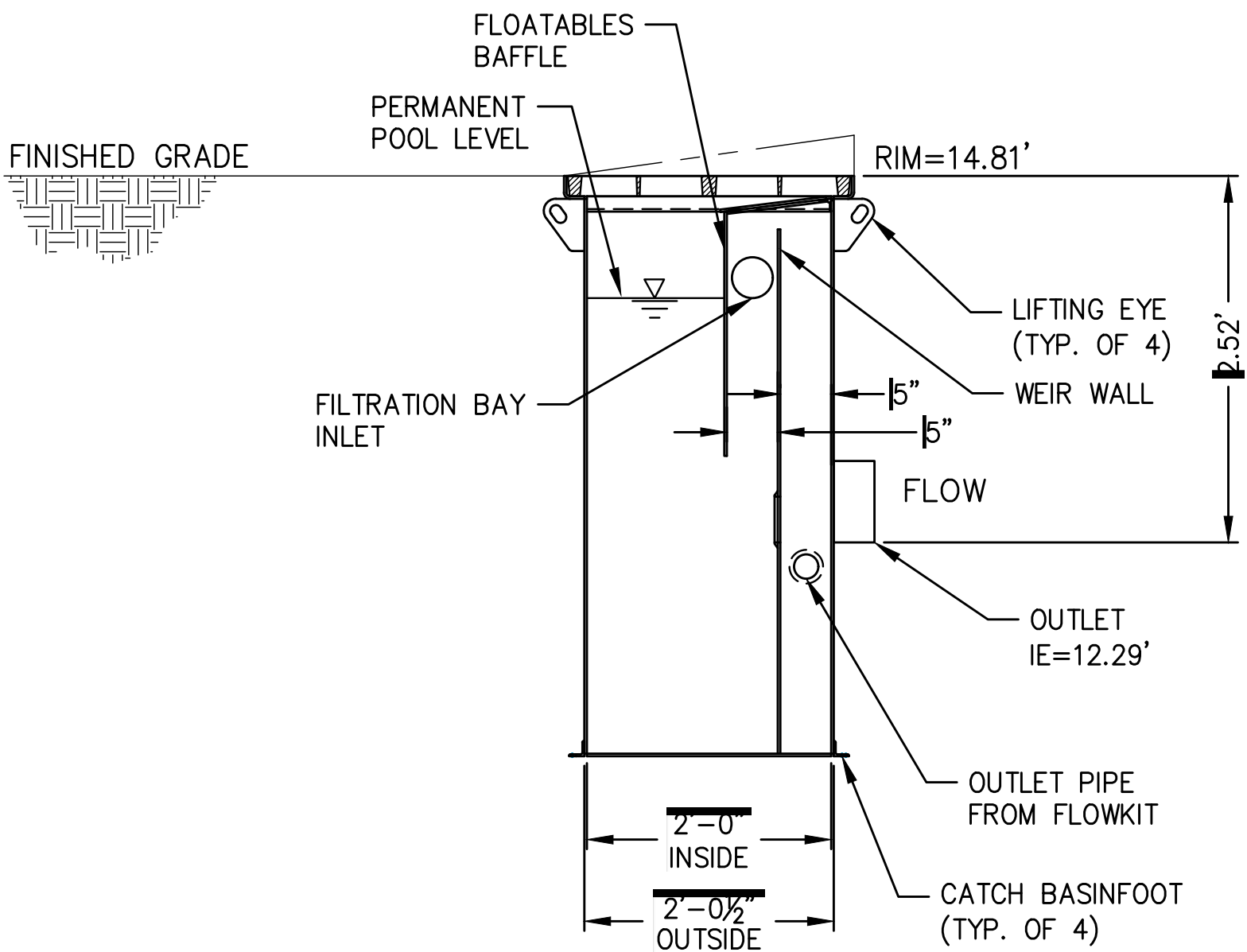
* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB (PSORB) MEDIA ONLY

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE.
www.contechES.com
- STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
- STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
- STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
- SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



SECTION B-B

3-CARTRIDGE CATCHBASIN STORMFILTER DATA			
STRUCTURE ID	CB 50		
WATER QUALITY FLOW RATE (cfs)	0.0387		
PEAK FLOW RATE (<1 cfs)	0.4846		
RETURN PERIOD OF PEAK FLOW (yrs)	100		
CARTRIDGE FLOW RATE (gpm)	7.5		
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG		
RIM ELEVATION	14.81'		
PIPE DATA:		I.E.	DIAMETER
INLET STUB		-	-
OUTLET STUB		12.29'	12"
CONFIGURATION			
OUTLET INLET OUTLET INLET			
SLOPED LID			
NO			
SOLID COVER			
NO			
NOTES/SPECIAL REQUIREMENTS:			

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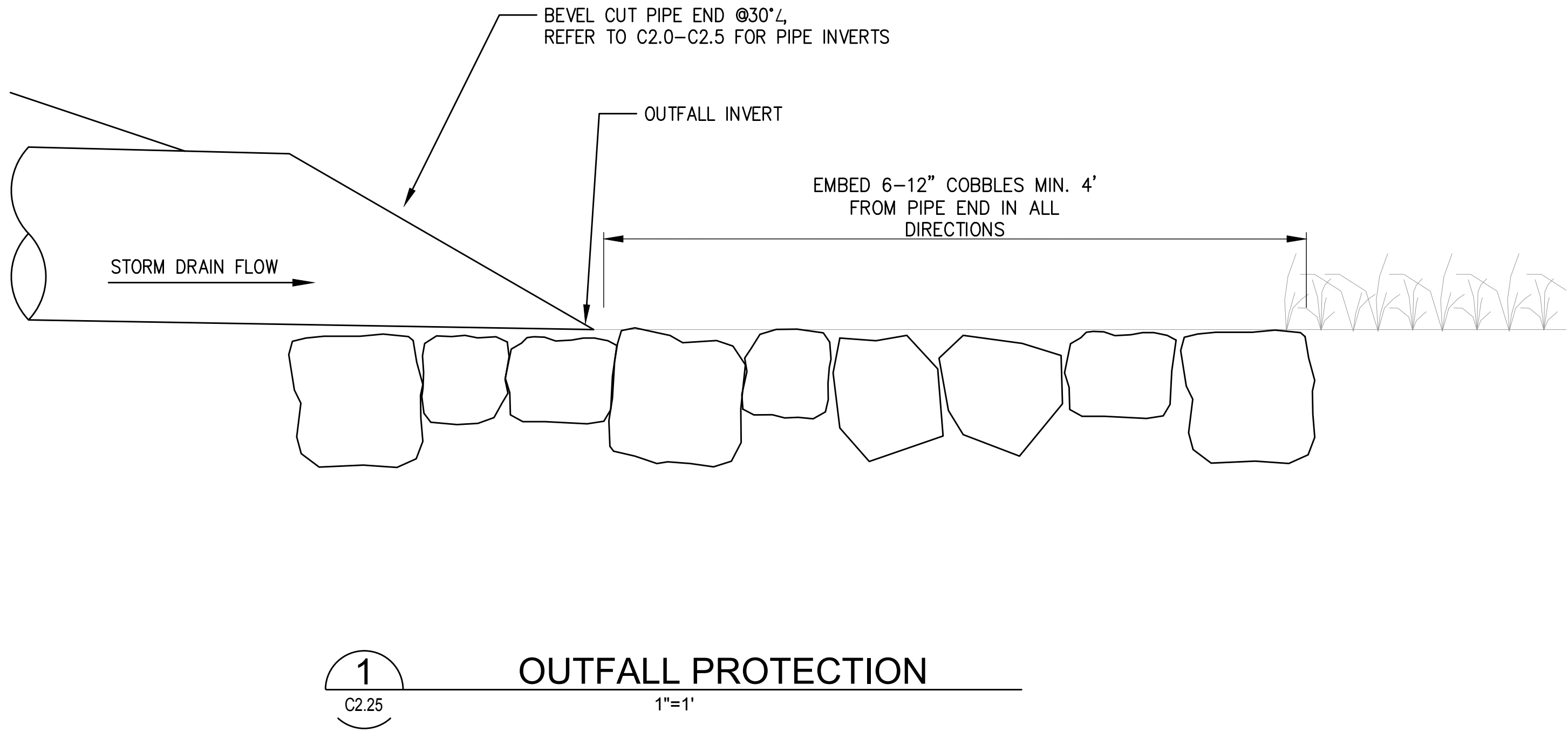
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SWK	5/9/2018	PROJ. ENGR	DATE
DIRECTOR	ENG. DATE	PRINTED BY:	chennett May 10, 2018
PORT ADDRESS:	ONE SITCUM PLAZA	TACOMA WA	98401-1837

PARCEL 77 AUTO IMPORT TERMINAL

STORMFILTER DETAILS

C2.24 OF 163

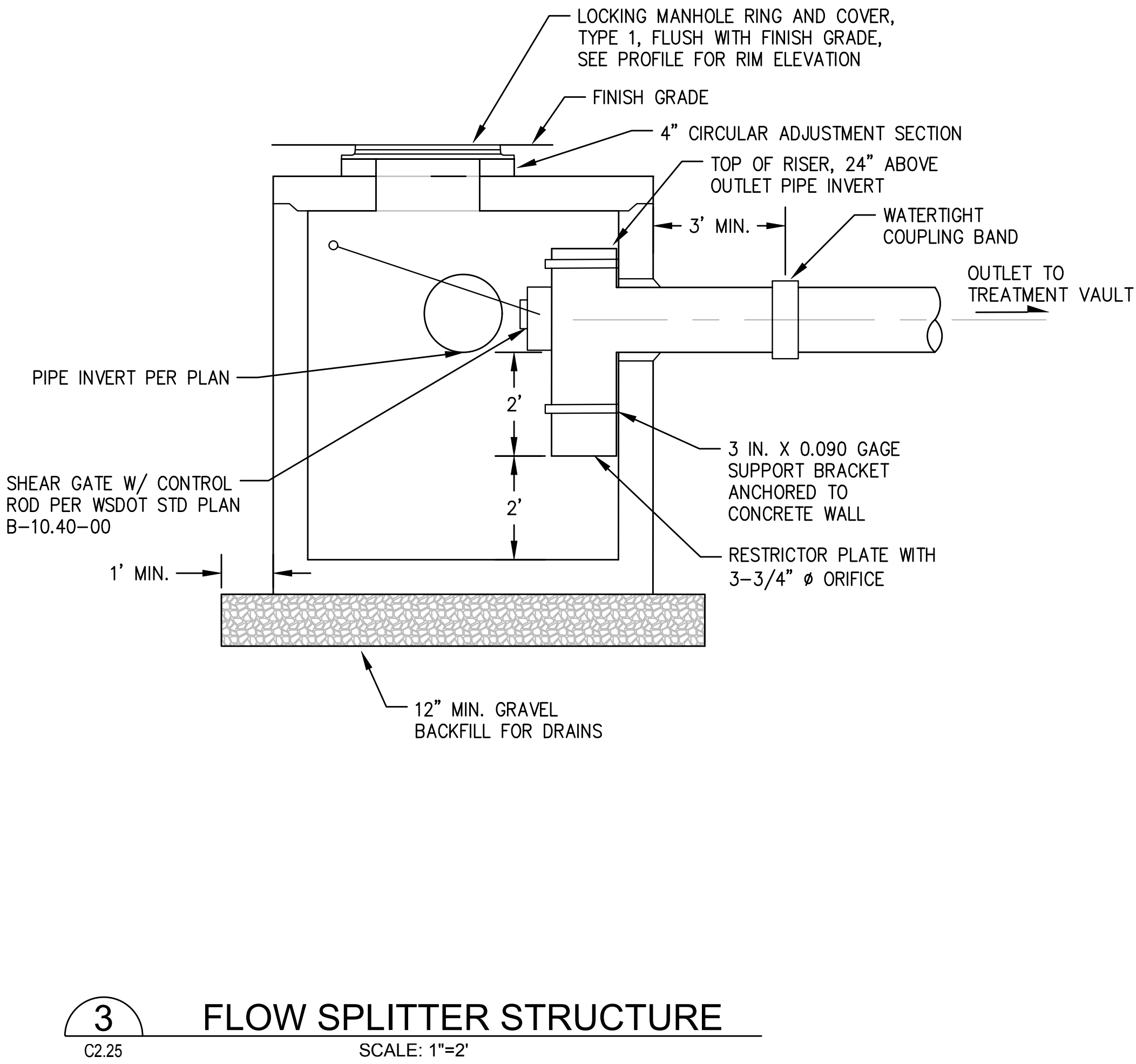
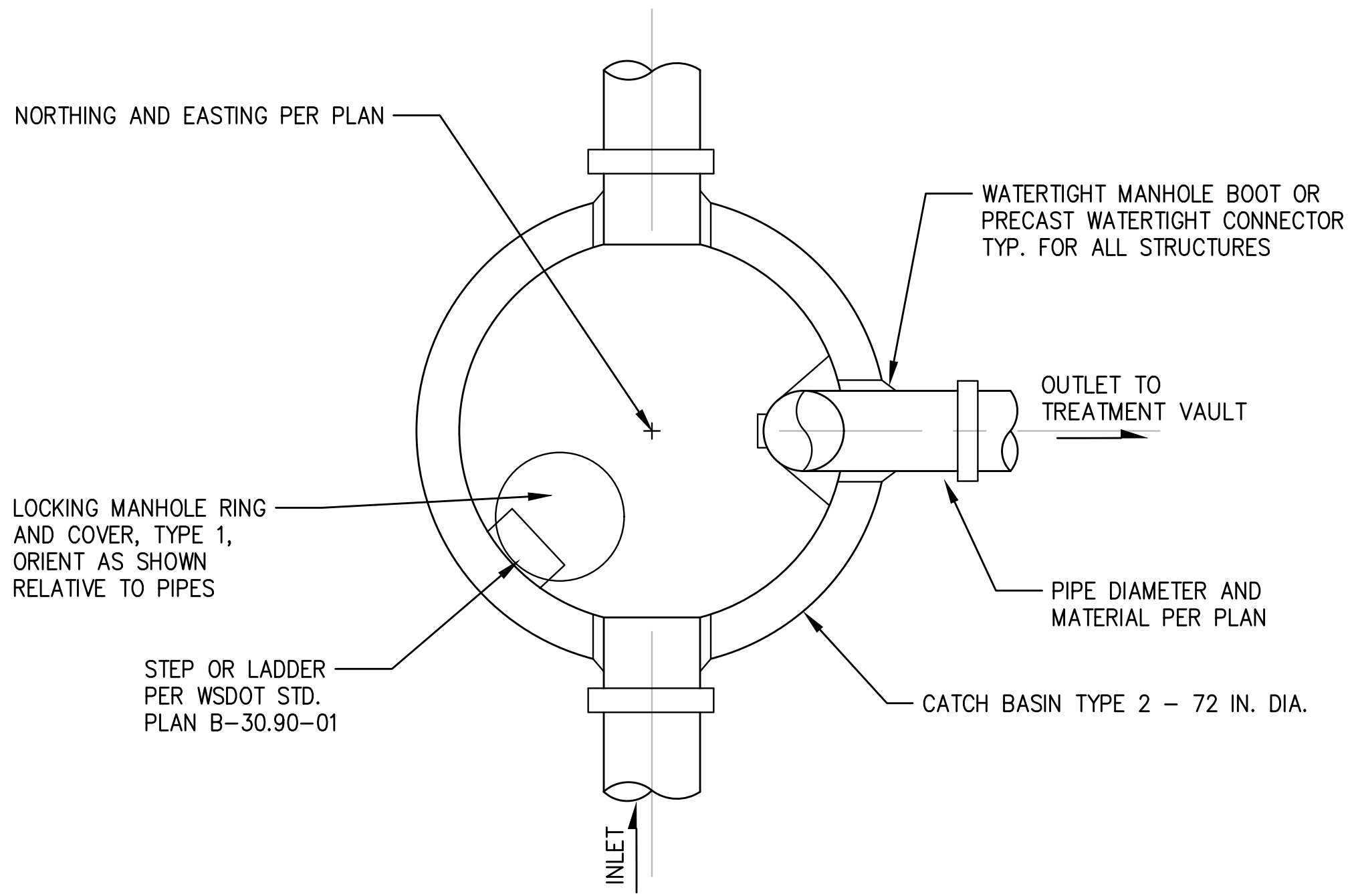
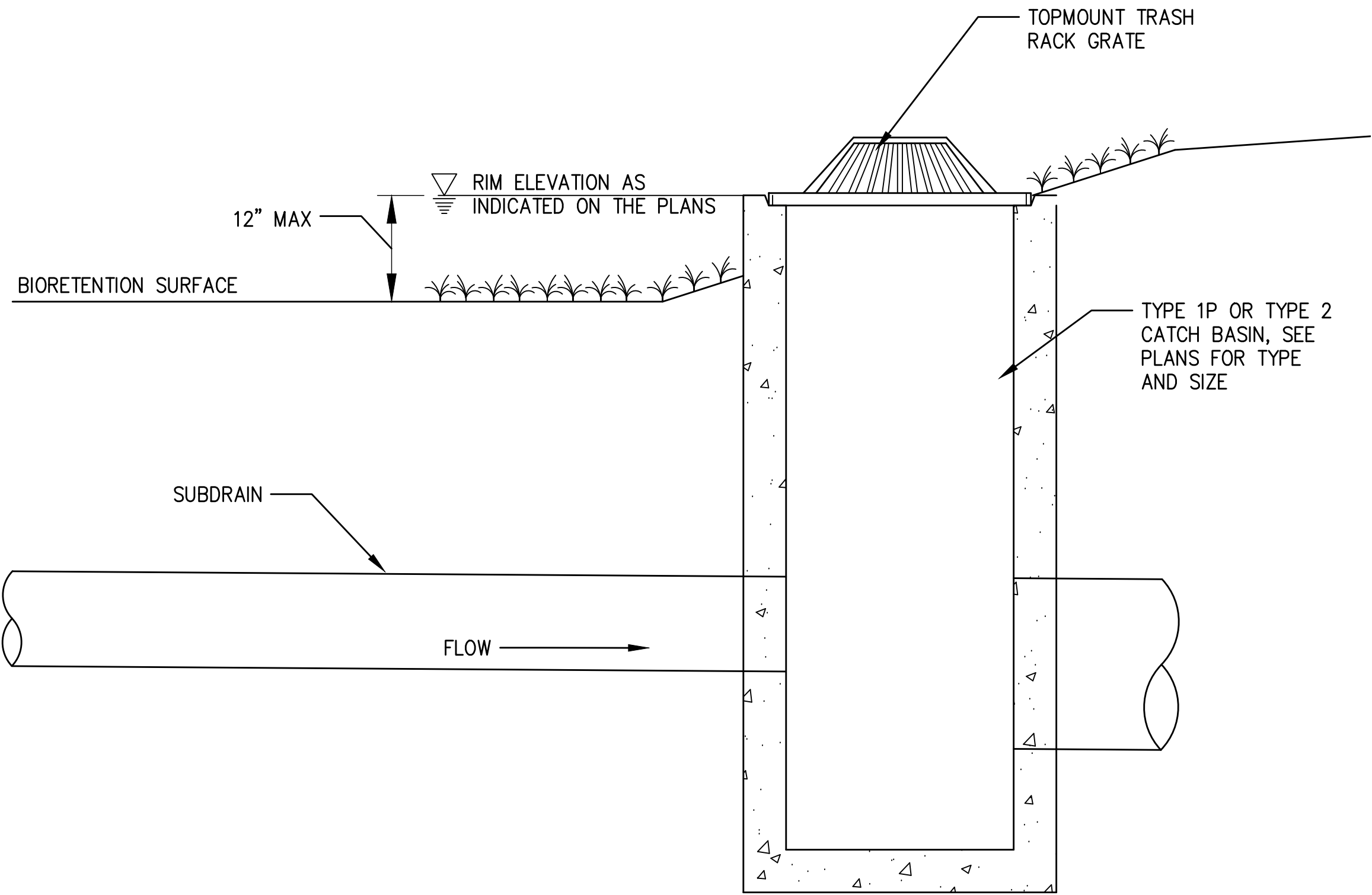
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M. ID:	201020.01	DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#		
PHASE:	100% SET	PARCEL:	MULTIPLE	DRAWING SCALE:	AS SHOWN		



1
C2.25

BIORETENTION OVERFLOW

NTS



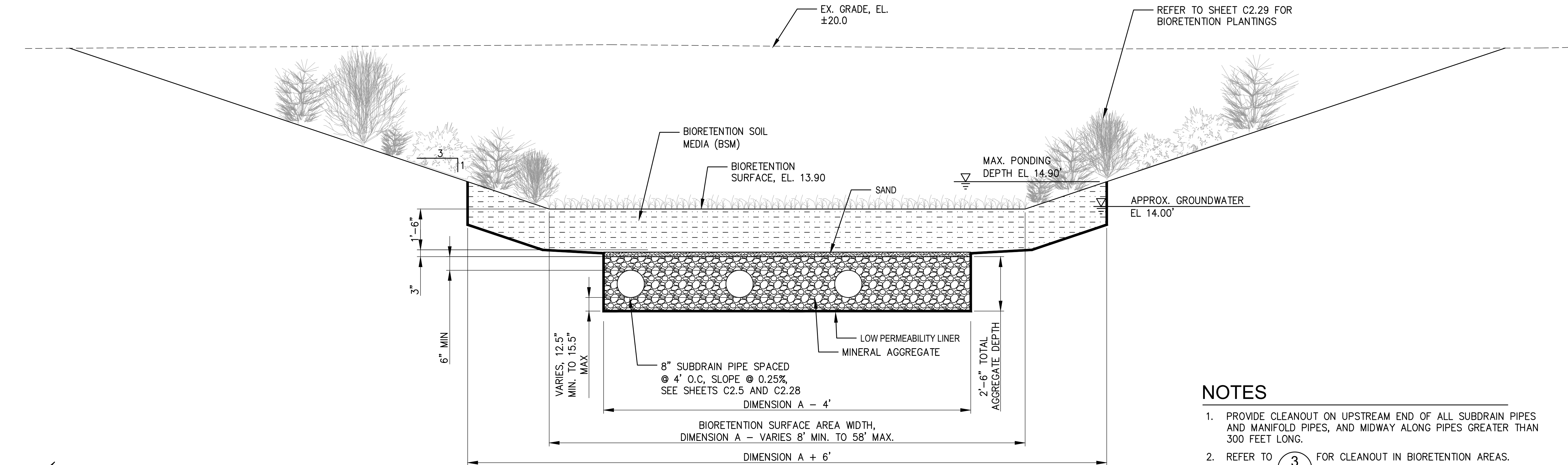
3
C2.25

FLOW SPLITTER STRUCTURE

SCALE: 1"=2'

C2.25 75 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB		5/7/2018		Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253)393-5841		
	STORM DRAINAGE DETAILS										kpff		
											REVISION:		
											MARK:		
CONT/CONS: 070770		TOWNSHIP: 21N		RANGE: 3E		SECTION: 36		DIRECTOR ENG. DATE		PROJ. ENGR DATE		BY:	
M. ID: 201020.01		DAT-HRZ: W83-SF		VERT: PORT OF TACOMA BM#		PRINTED BY: cbennett		DATE: May 10, 2018		DATE: 5/9/2018		APPR:	
PHASE: 100% SET		PARCEL: MULTIPLE		DRAWING SCALE: AS SHOWN		TACOMA WA, 98401-1837		PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837		DATE:	

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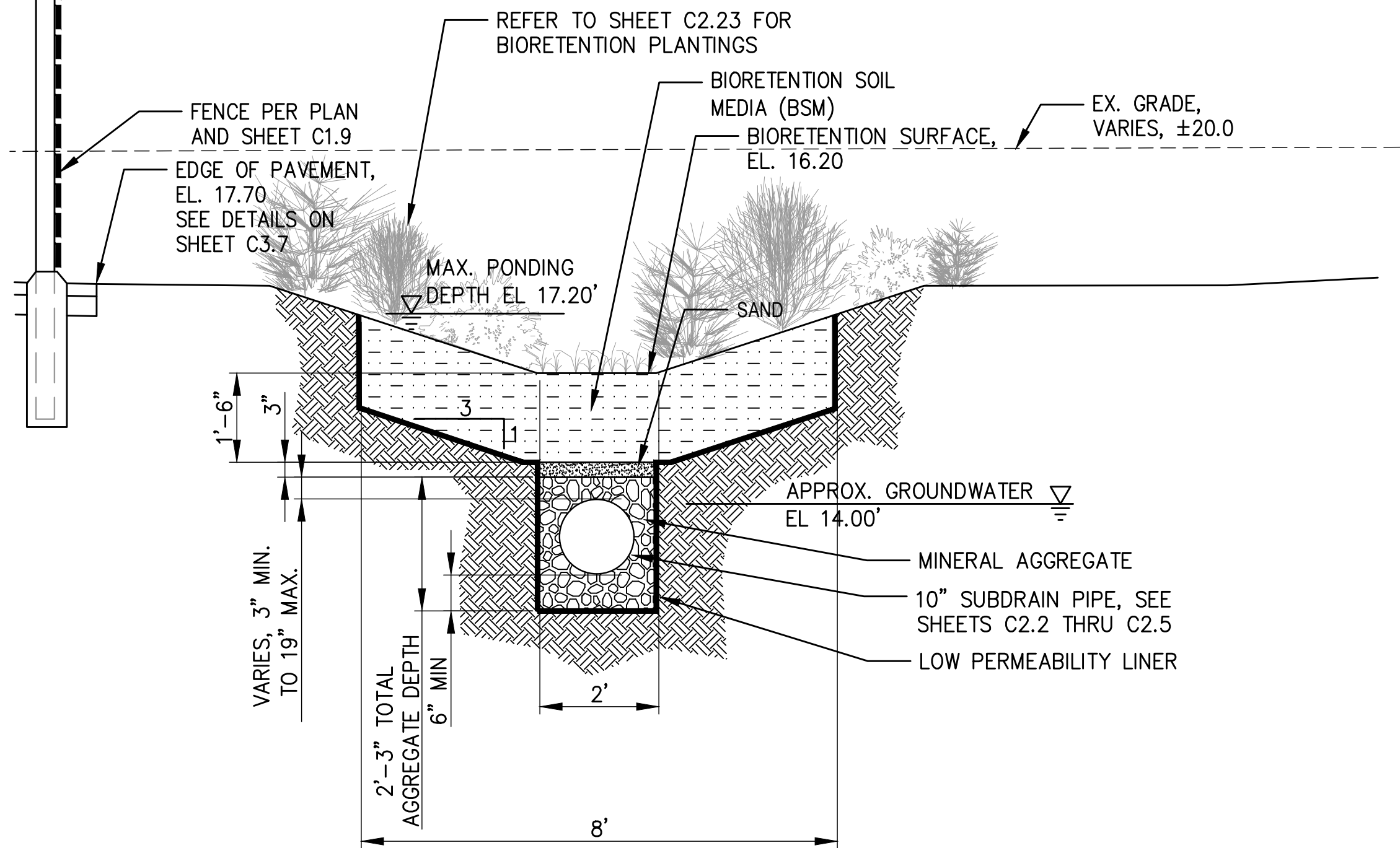


SOUTHEAST BIORETENTION AREA

SCALE: 1"=2'

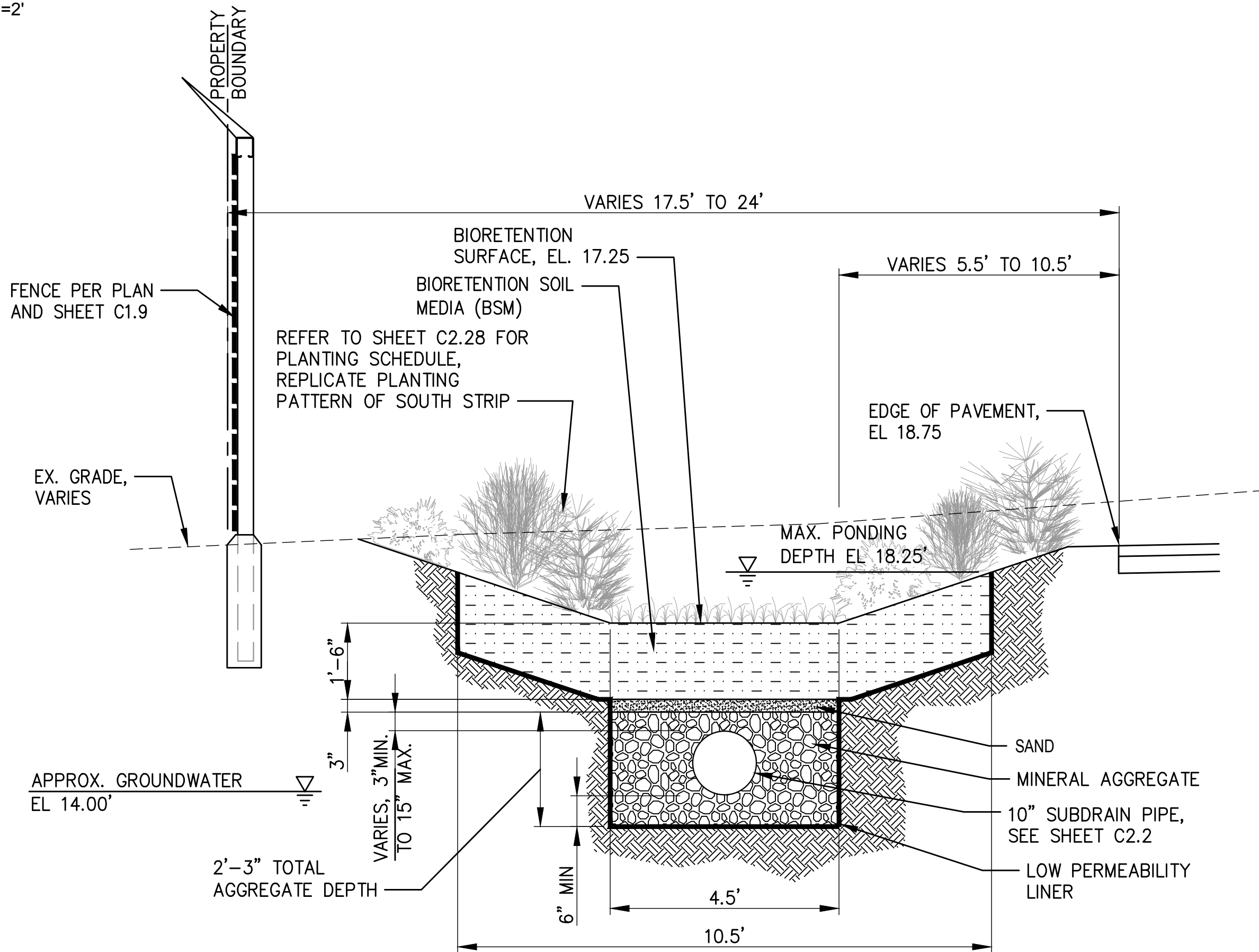
NOTES

1. PROVIDE CLEANOUT ON UPSTREAM END OF ALL SUBDRAIN PIPES AND MANIFOLD PIPES, AND MIDWAY ALONG PIPES GREATER THAN 300 FEET LONG.
2. REFER TO **3** FOR CLEANOUT IN BIORETENTION AREAS.



SOUTH BIORETENTION STRIP

SCALE: 1"=2'

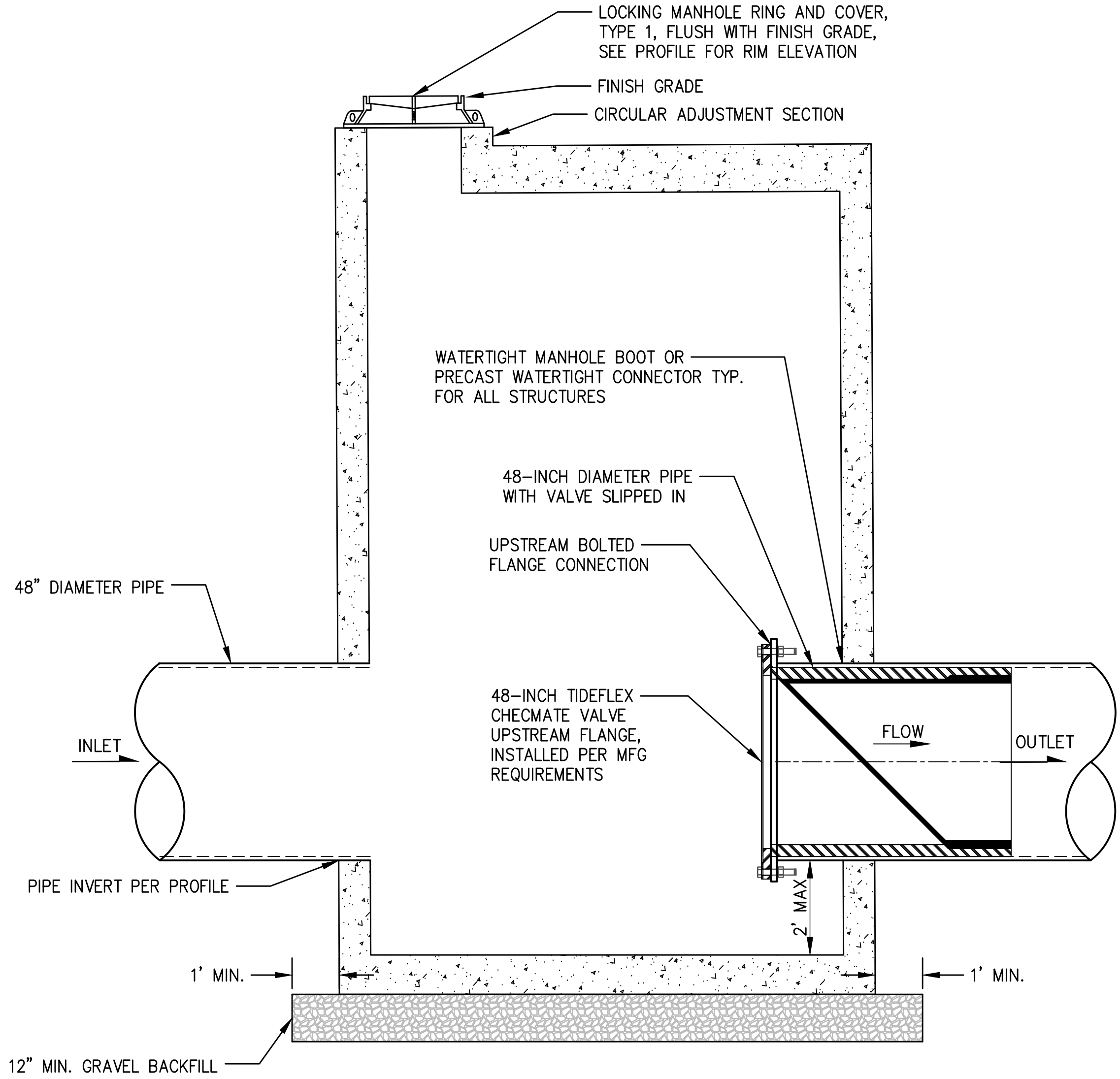


WEST BIORETENTION STRIP

SCALE: 1"=2'

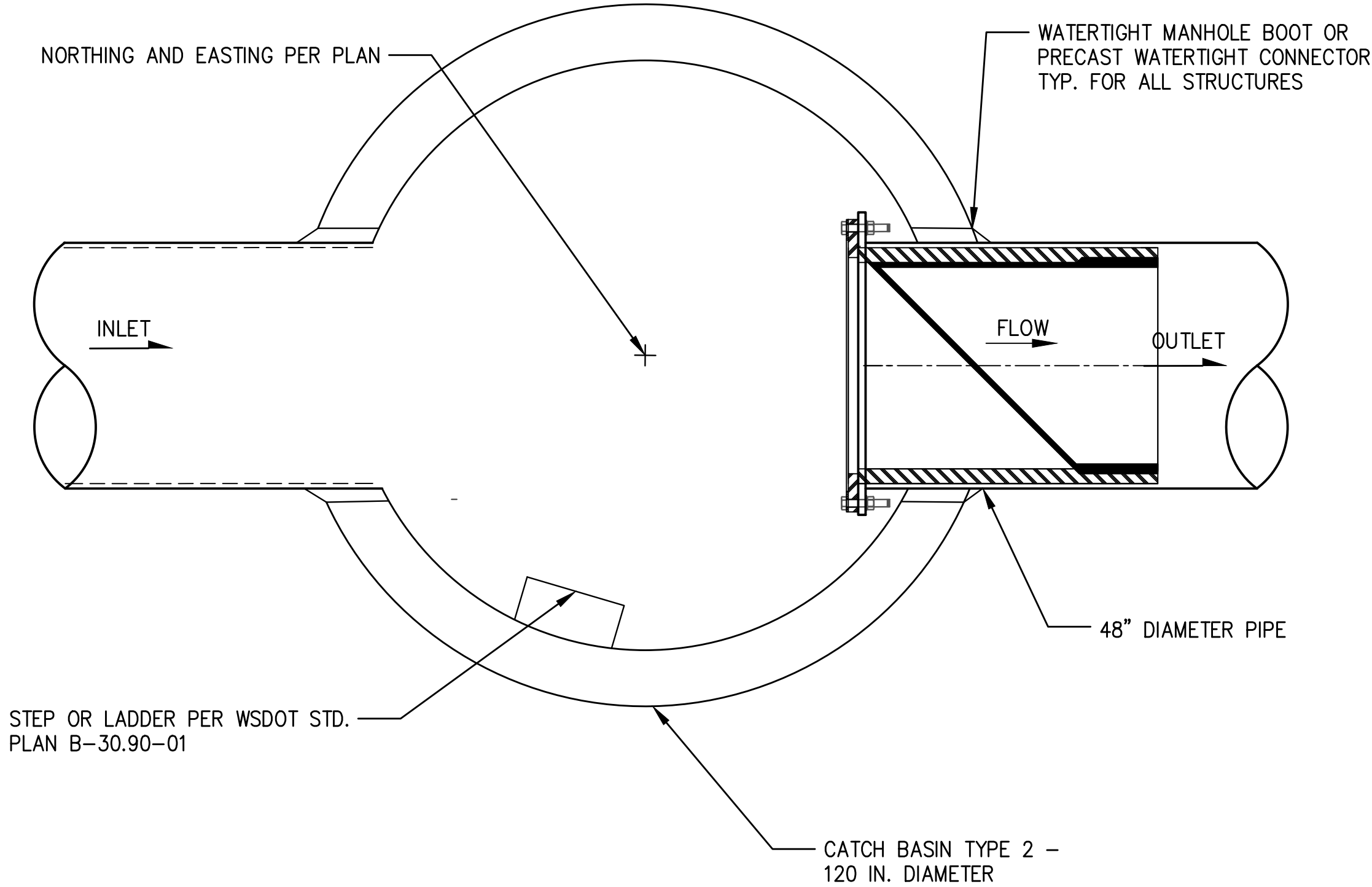
C2.26 76 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB	5/7/2018
	STORM DRAINAGE DETAILS				CHECKED BY	DATE	SWK	5/9/2018
	CONT/CONS: 070770	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DIRECTOR ENG. DATE	PROJ. ENGR	DATE	
	M. ID: 201020.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PRINTED BY: chennett May 10, 2018				
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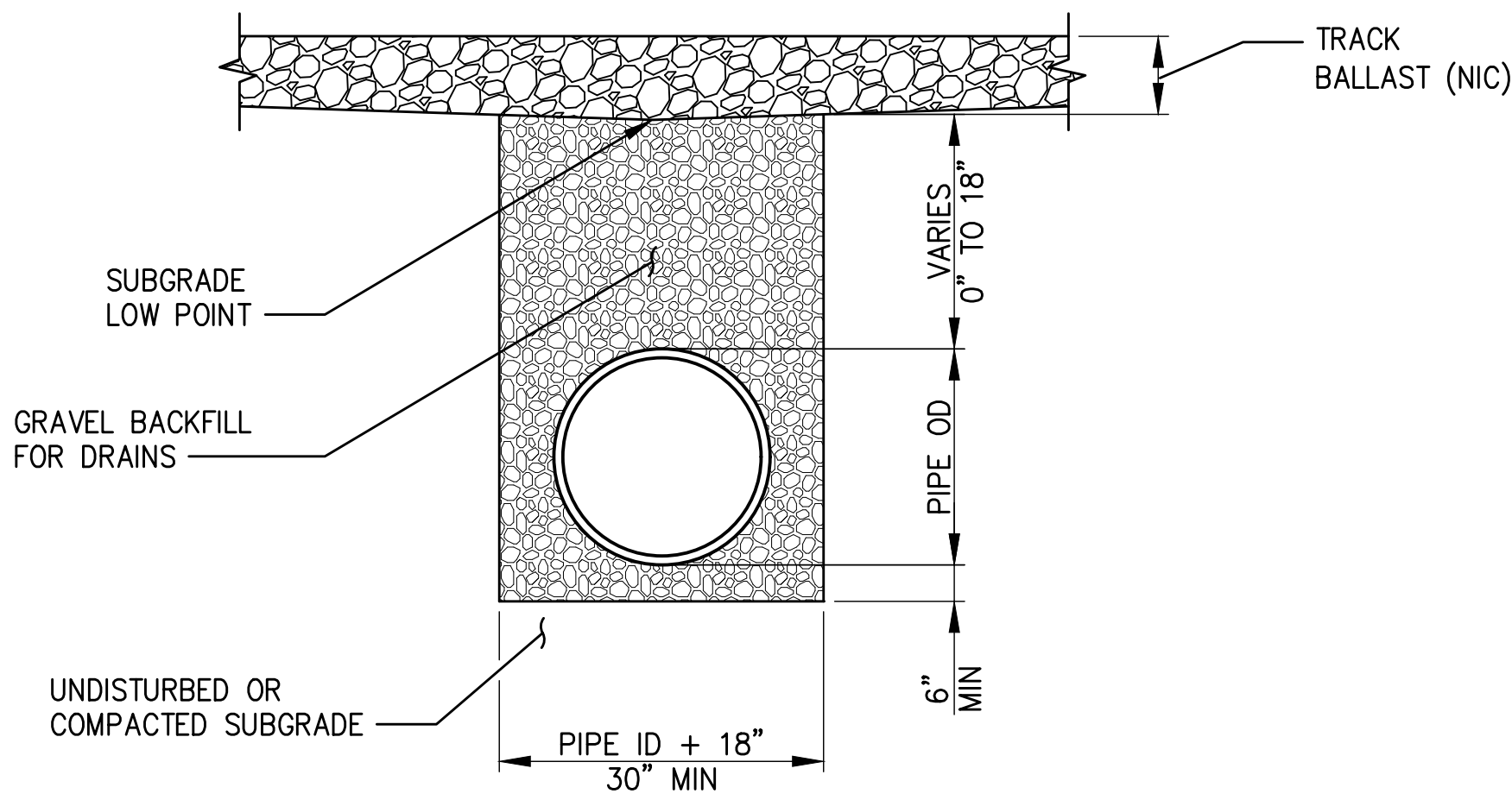


1 CATCH BASIN 1 STRUCTURE
C2.27 SCALE: 1"=2'

- NOTES
- CHECKMATE VALVE SHALL BE SUPPLIED BY MANUFACTURER WITH TWO CLAMPS. CLAMP TURNBUCKLES SHOULD BE ORIENTED 45° FROM THE TOP CENTER PLUMB LINE.
 - VALVE SHALL BE SLIPPED INTO DOWNSTREAM 48-INCH DIAMETER PIPE. VALVE SHALL BE INSTALLED LEVEL.
 - WATER TIGHT SEAL SHALL BE PROVIDED.



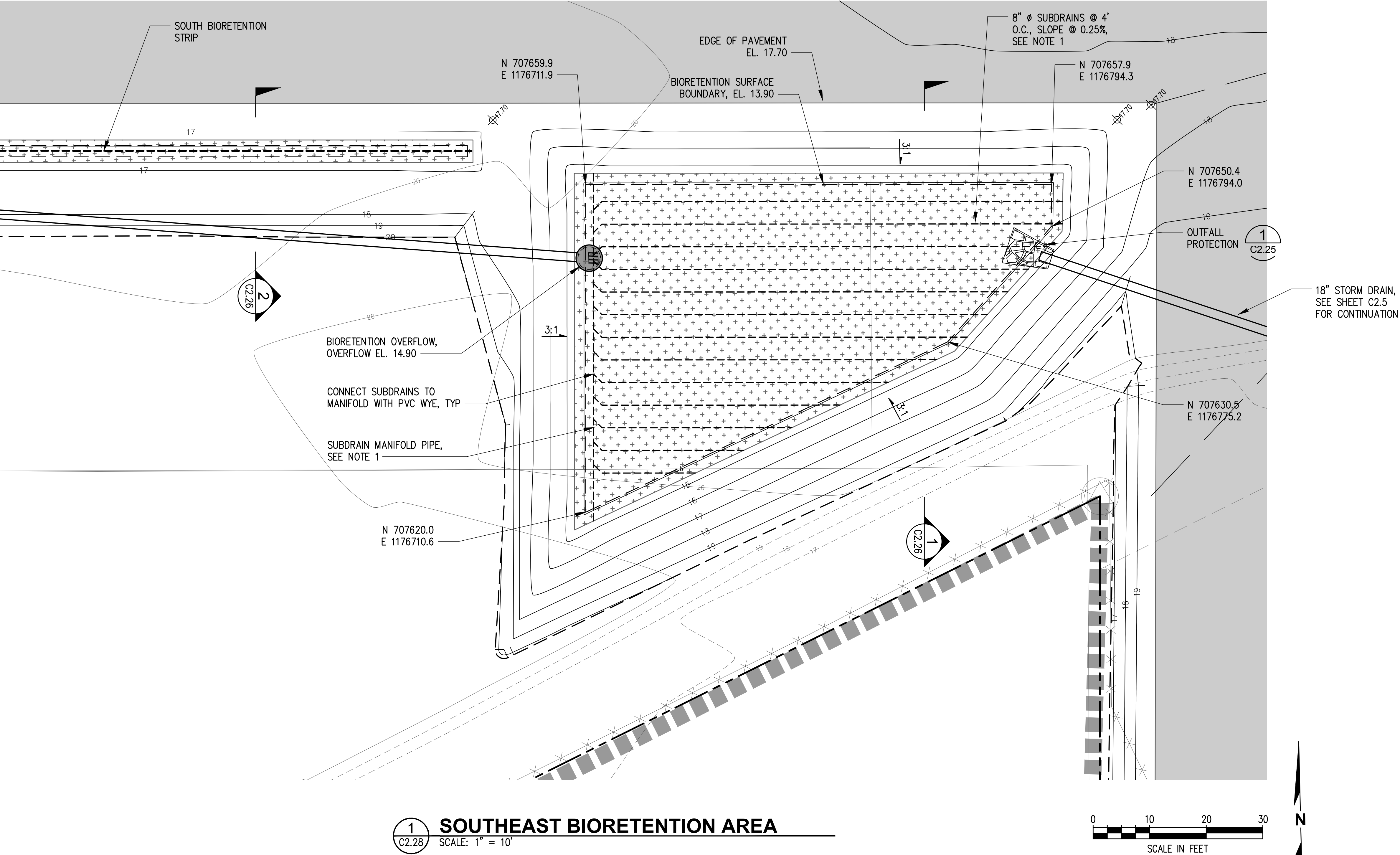
2 CATCH BASIN 1 STRUCTURE
C2.27 SCALE: 1"=2'



- NOTE:
- CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS

3 TRACK SUBDRAIN
C2.27 SCALE: 1"=2'

C2.27 77 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:	CMB	5/7/2018		kpff 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 396-5841					
	STORM DRAINAGE DETAILS				CHECKED BY: DATE		MARK:				REVISION:	BY:	APPR:	DATE:
					DIRECTOR ENG. DATE									
					PRINTED BY: chennett May 10, 2018									
CONT/CONS: 070770		TOWNSHIP: 21N		RANGE: 3E		SECTION: 36								
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PHASE: 100% SET		PARCEL: MULTIPLE		DRAWING SCALE: AS SHOWN										
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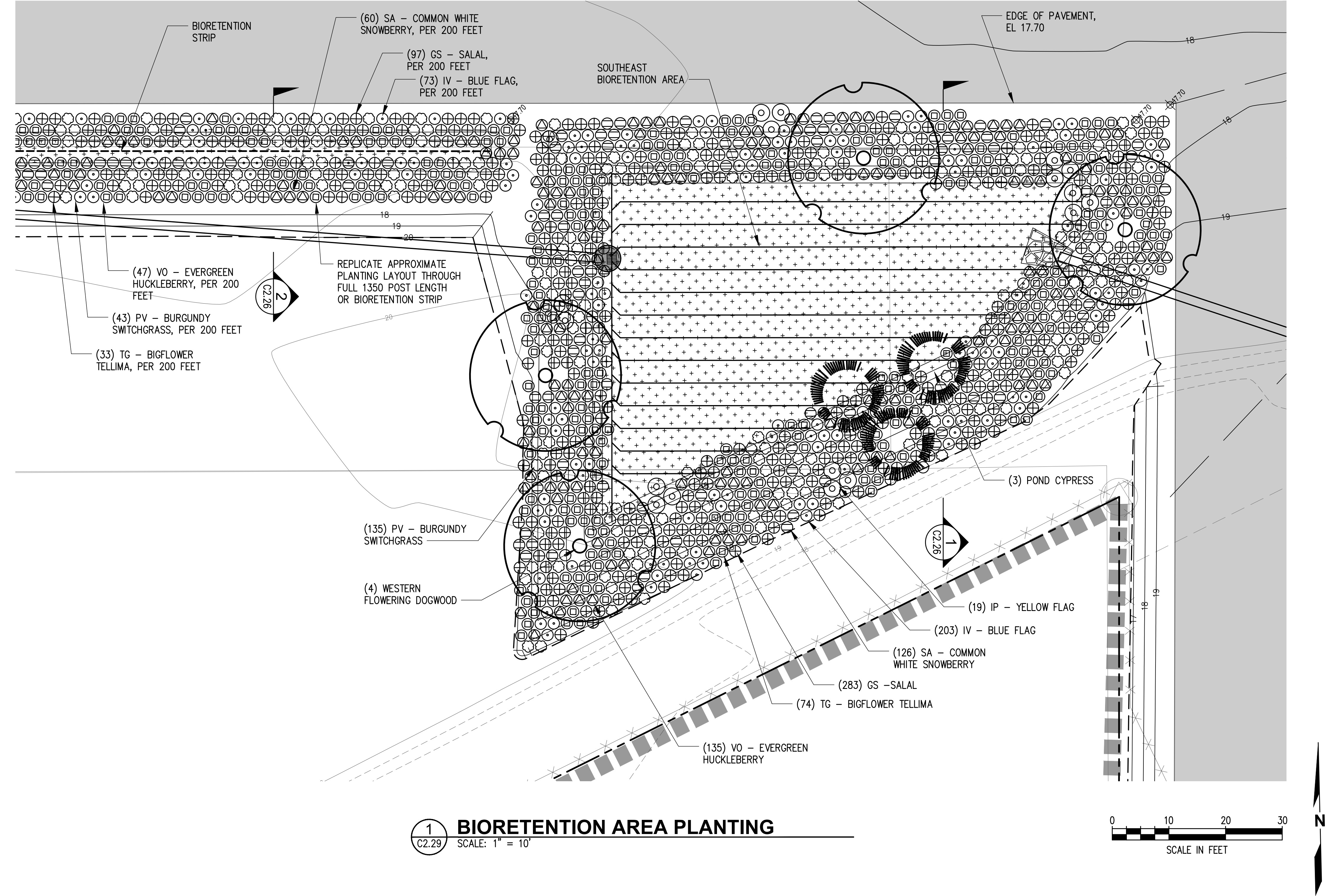


BIORETENTION AREA NOTES

- PROVIDE CLEANOUT ON UPSTREAM END OF ALL SUBDRAIN PIPES AND MANIFOLD PIPES, AND MIDWAY ALONG PIPES GREATER THAN 300 FEET LONG. LOCATE CLEANOUTS FOR UPSTREAM END OF PIPES ON SIDE SLOPE AT APPROX. EL. 14.6. REFER TO **3** C2.21 FOR CLEANOUT IN BIORETENTION AREAS.
- REFER TO SHEET C2.29 FOR BIORETENTION AREA PLANTING.

C2.28 78 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:	CMB	5/7/2018	 Chad Bennett REGISTERED PROFESSIONAL 5/19/18	 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401 (253) 393-5841	
	CONT/CONS: 070770 M. ID: 201020.01 PHASE: 100% SET	TOWNSHIP: 21N DAT-HRZ: W83-SF PARCEL: MUI TIPLE	RANGE: 3E SECTION: 36 VERT: PORT OF TACOMA BM#	DIRECTOR ENG. DATE PRINTED BY: cbennett May 10, 2018 PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA, 98401-1837	CHECKED BY: SWK PROJ. ENGR DATE DATE: 5/9/2018	MARK: REVISION: BY: APPR: DATE:				

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BIORETENTION PLANTING NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PLANT COUNTS, QUANTITIES AND AREA CALCULATIONS. THE QUANTITIES AND AREA COUNTS HEREIN ARE FOR CONTRACTORS CONVENIENCE ONLY.
- FINAL LAYOUT OF ALL PLANT MATERIALS SHALL BE COORDINATED WITH THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND ACCOUNTING FOR ALL BID QUANTITIES OF ALL PLANT MATERIALS. ALL PLANTS NOT INCLUDED IN THE BID QUANTITIES AND NOT USED SHALL BE CREDITED TO THE PORT.
- ANY ROCK, CLODS, OR DEBRIS GREATER THAN ½" SHALL BE REMOVED FROM SHRUB OR GROUND COVER AREAS.
- FINISH INSTALLATIONS AT THE CROWN OF PLANTS SHALL BE HIGHER THAN ADJACENT FINISH GRADE AS DETAILED.
- CONTRACTOR SHALL ALLOW FOR THE ADDITION OF THE SPECIFIED QUANTITIES OF SOIL, MULCH, AMENDMENTS AND CONDITIONERS IN SOIL PREPARATION AND FINISH GRADING.

PLANT SCHEDULE

SYMBOL	CODE	BIORETENTION AREA			TOTAL	BOTANICAL NAME	COMMON NAME	CONDITION OR CONTAINER	CALIPER OR SPACING
		SOUTHEAST	SOUTH STRIP	WEST STRIP					
	CN	4			4	CORNUS NUTTALLII	WESTERN FLOWERING DOGWOOD	B&B	1.5" CAL.
	TA	3			3	TAXODIUM ASCENDENS	POND CYPRESS	B&B	1.5" CAL.
	GS	283	1180	864	2327	GAULTHERIA SHALLON	SALAL	1 GALLON	24" O.C.
	IP	19			19	IRIS PSEUDOCORUS	YELLOW FLAG	1 GALLON	36" O.C.
	IV	203	845	650	1698	IRIS VERSICOLOR	BLUE FLAG	1 GALLON	24" O.C.
	PV	135	515	383	1033	PANICUM VIRGATUM 'SHENANDOAH'	BURGUNDY SWITCH GRASS	1 GALLON	24" O.C.
	SA	126	646	534	1306	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	2 GALLON	24" O.C.
	TG	74	348	294	716	TELLIMA GRANDIFLORA	BIGFLOWER TELLIMA	1 GALLON	24" O.C.
	VO	135	557	418	1110	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	2 GALLON	24" O.C.

Port of Tacoma

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TACOMA WA 98401-1837

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TACOMA WA 98401-1837

PARCEL 77 AUTO IMPORT TERMINAL

BIORETENTION PLANTING PLAN

TOWNSHIP: 21N

RANGE: 3E

SECTION: 36

DAT-HRZ: W83-SF

VERT: PORT OF TACOMA BM#

PARCEL: MULTIPLE

DRAWING SCALE: AS SHOWN

C2.29

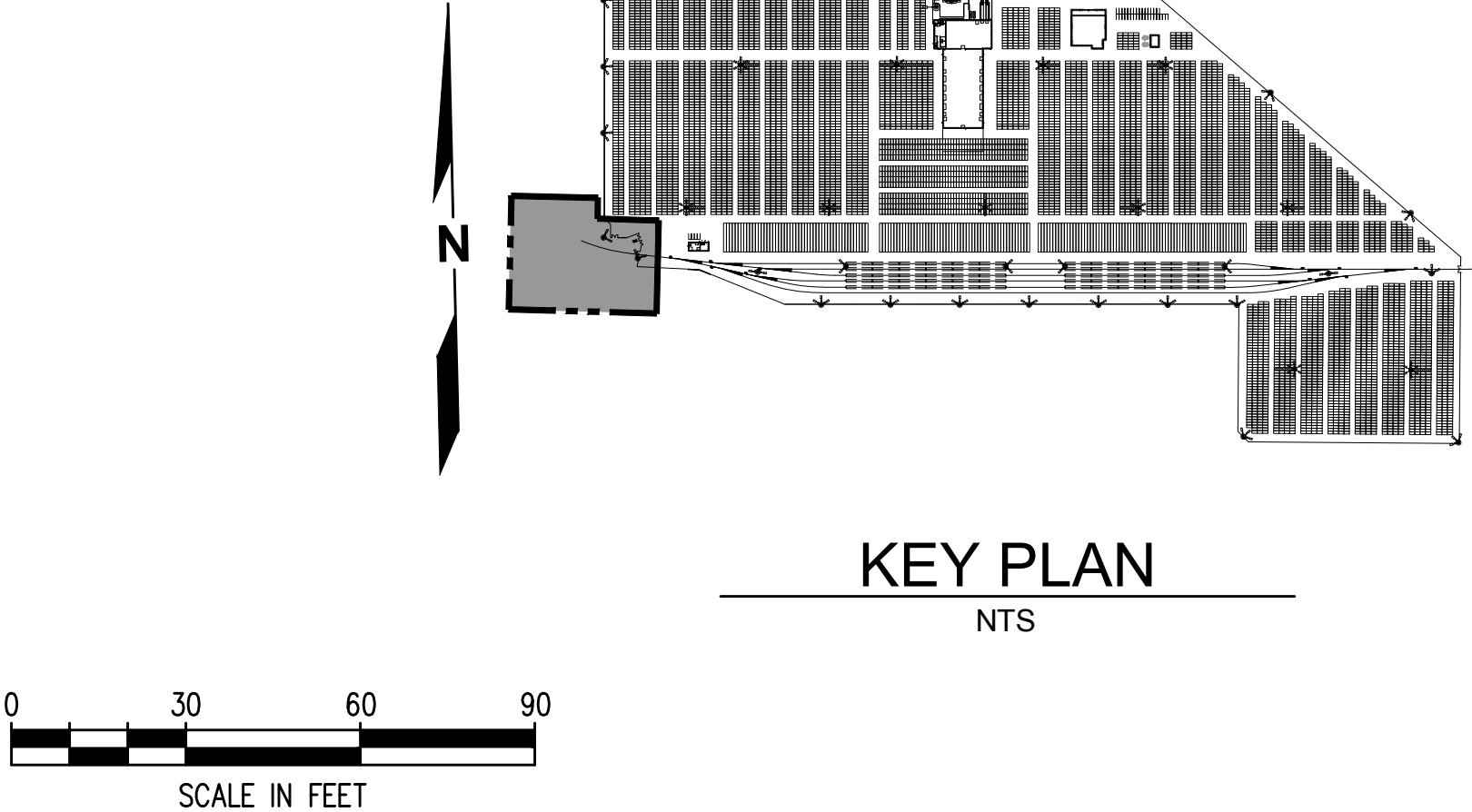
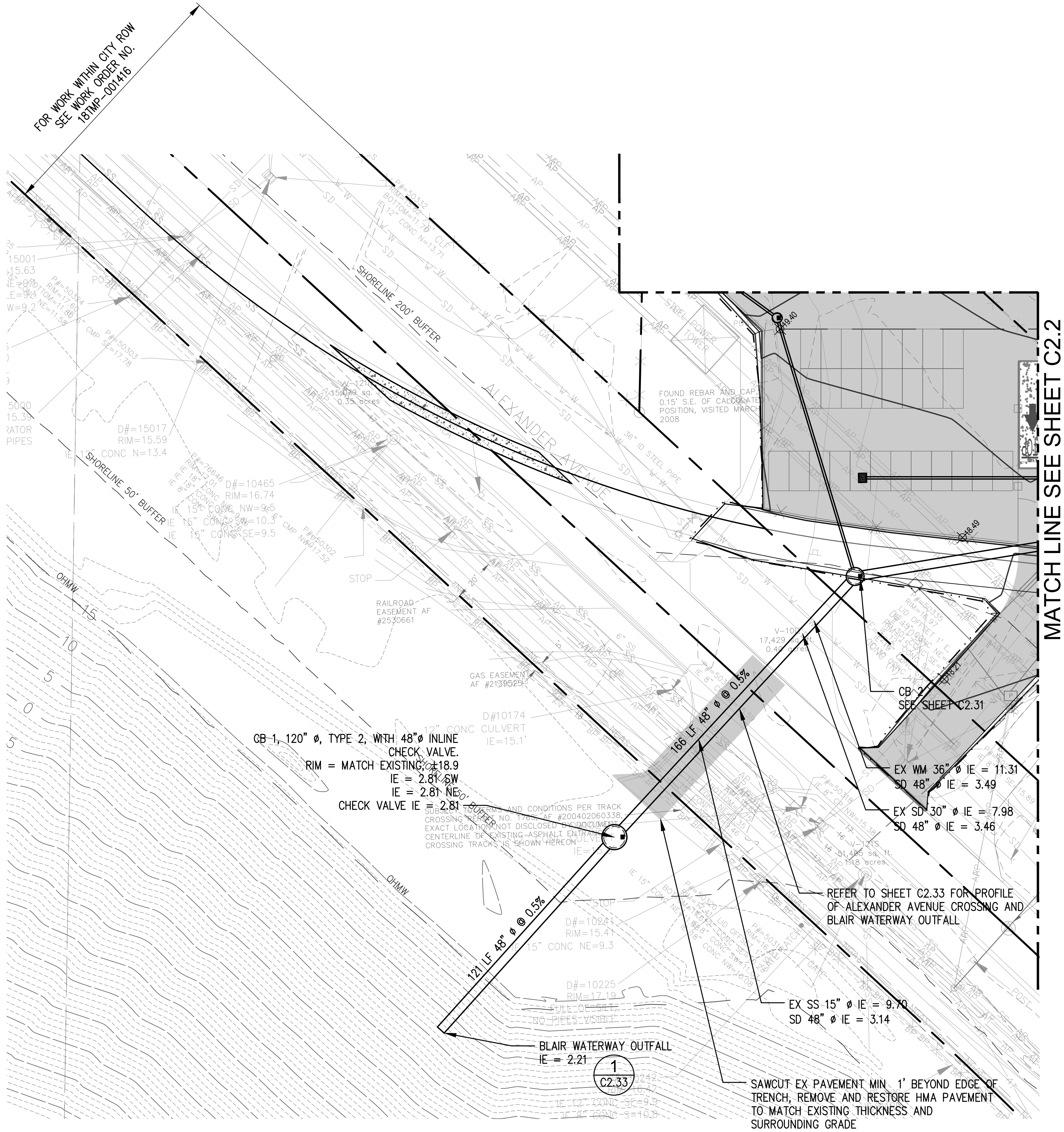
79 OF 163

CONT/CONS: 070770

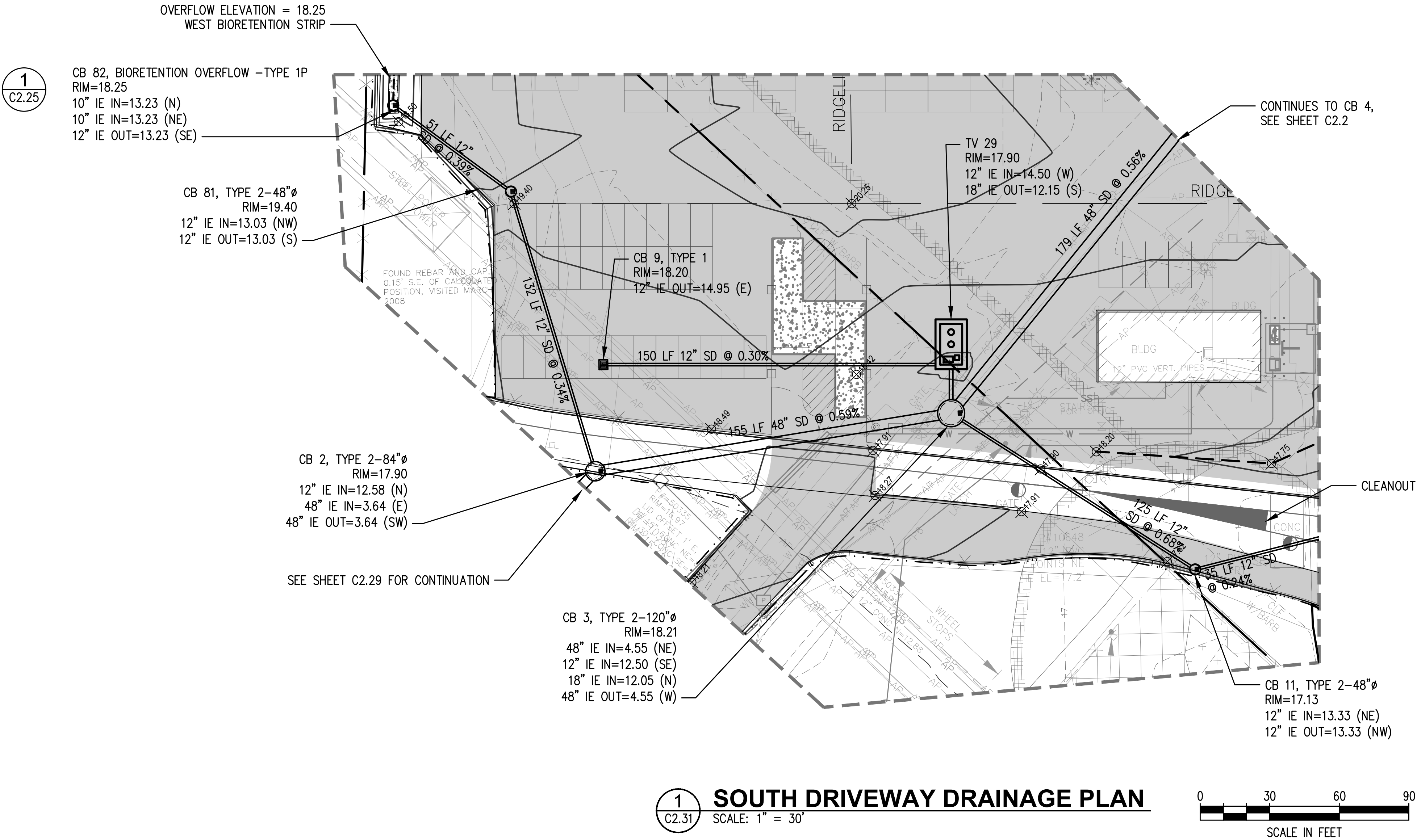
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PHASE: BID SET

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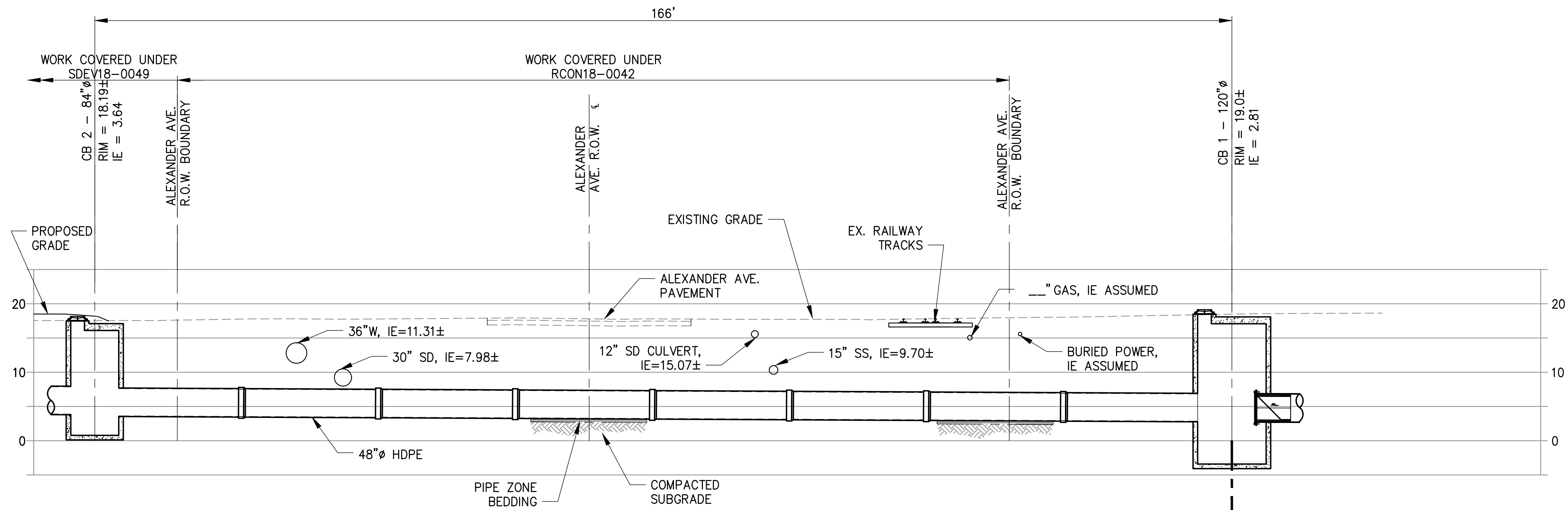
C2.30 80 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:	CMB	5/7/2018
	BLAIR WATERWAY OUTFALL PLAN				CHECKED BY	DATE	
					SWK	5/9/2018	
	TOWNSHIP: 21N				SECTION: 36	DIRECTOR ENG. DATE	PROJ. ENGR DATE
DATE-HRZ: W83-SF				VERT: PORT OF TACOMA BM#	PRINTED BY: cbennett	May 10, 2018	
PARCEL: MUI TIPLE				DRAWING SCALE: AS SHOWN	PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA 98401-1837		
CONT/CONS: 07070		M. ID: 201020.01		PHASE: BID SET		MARK: REVISION: BY: APPR: DATE:	
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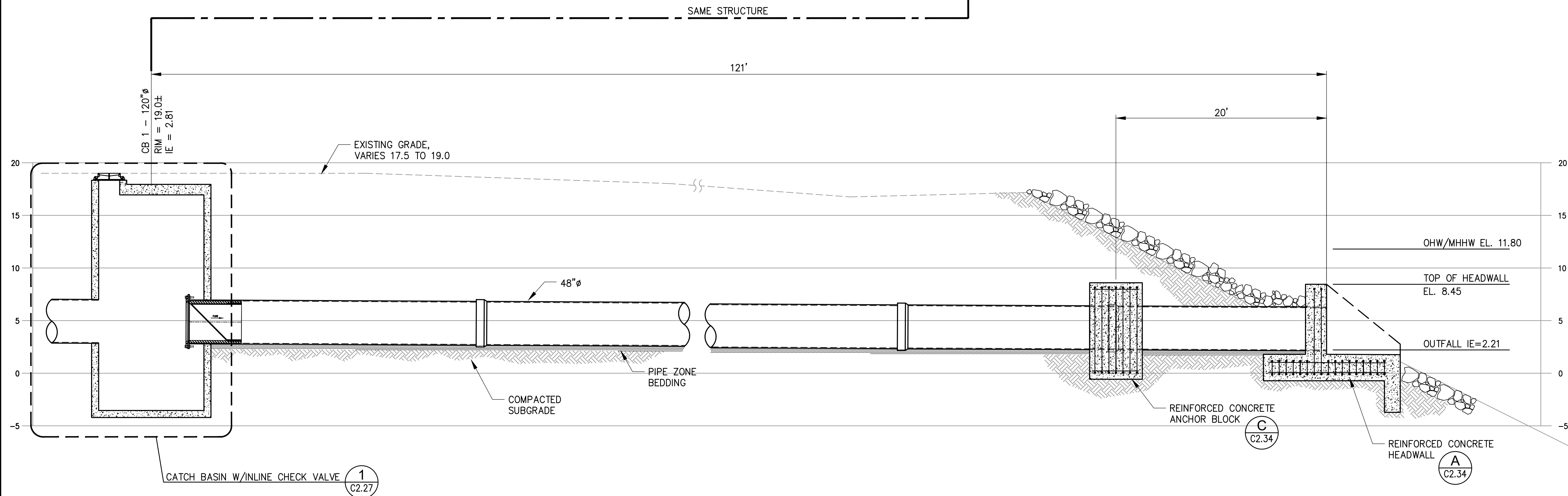
C2.31 81 OF 163	PARCEL 77 AUTO IMPORT TERMINAL SOUTH DRIVEWAY DRAINAGE PLAN	APPROVED:	CMB	5/7/2018	
			CHECKED BY	DATE	
			SWK	5/9/2018	
			DIRECTOR	ENG. DATE	
CONT/CONS: 070770	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	PRINTED BY: cbennett	May 10, 2018
M. ID: 201020.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	DRAWING SCALE: AS SHOWN	TACOMA WA, 98401-1837	
PHASE: BID SET	PARCEL: MULTIPLE	PORT ADDRESS: ONE SITCUM PLAZA			
MARK:			REVISION:	BY:	DATE:
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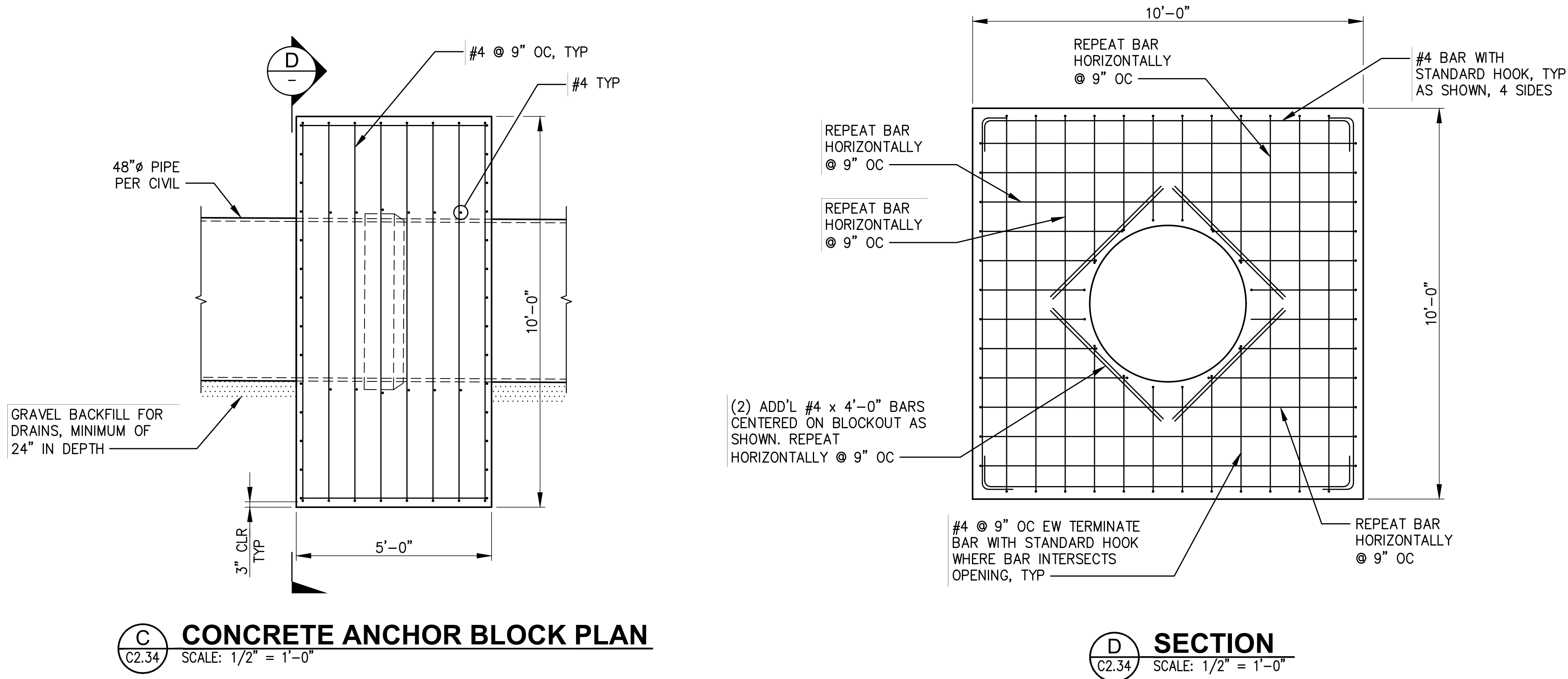
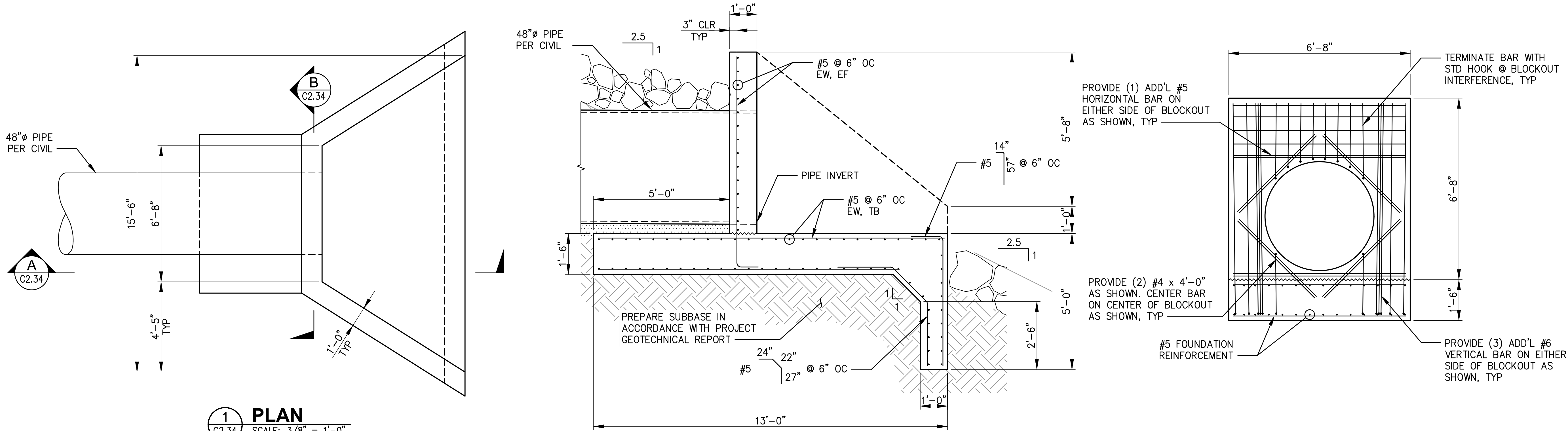
1 C2.33 STORM DRAIN CROSSING OF ALEXANDER AVENUE SCALE: 1" = 10'



1 BLAIR WATERWAY OUTFALL
C2.33 SCALE: 1" = 5'

C2.33 83 OF 163		PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB 5/7/2018		  2407 North 31st Street, Suite 100 PO BOX 1527 TACOMA WA 98401 (253) 396-0150 FAX (253) 396-0152 		MARK: REVISION: BY: APPR: DATE:	
CONTRACT/CONS: 070770 M. ID: 201020.01 PHASE: BID SET		TOWNSHIP: 21N SECTION: 36		CHECKED BY DATE		SWK 5/9/2018							
		DAT-HRZ: W83-SF VERT:		DIRECTOR ENG. DATE		PROJ. ENGR DATE							
		PARCEL: MULTIPLE DRAWING SCALE: AS SHOWN		PRINTED BY: cbennett MAY 10, 2018		PORT ADDRESS: ONE SITUUM PLAZA							

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C2.34 84 OF 163	PARCEL 77 AUTO IMPORT TERMINAL				APPROVED:		CMB	5/7/2018
	BLAIR OUTFALL DETAILS				CHECKED BY	DATE	SWK	5/9/2018
	CONT/CONS: 07070	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DIRECTOR	ENG. DATE	PROJ. ENGR	DATE
	M. ID: 201020.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PRINTED BY: chennett	May 10, 2018			
PHASE: BID SET	PARCEL: MULTIPLE	DRAWING SCALE: AS SHOWN	PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837			
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