

Pacific County

Pacific Co FD1 Site Development Long Beach, Washington



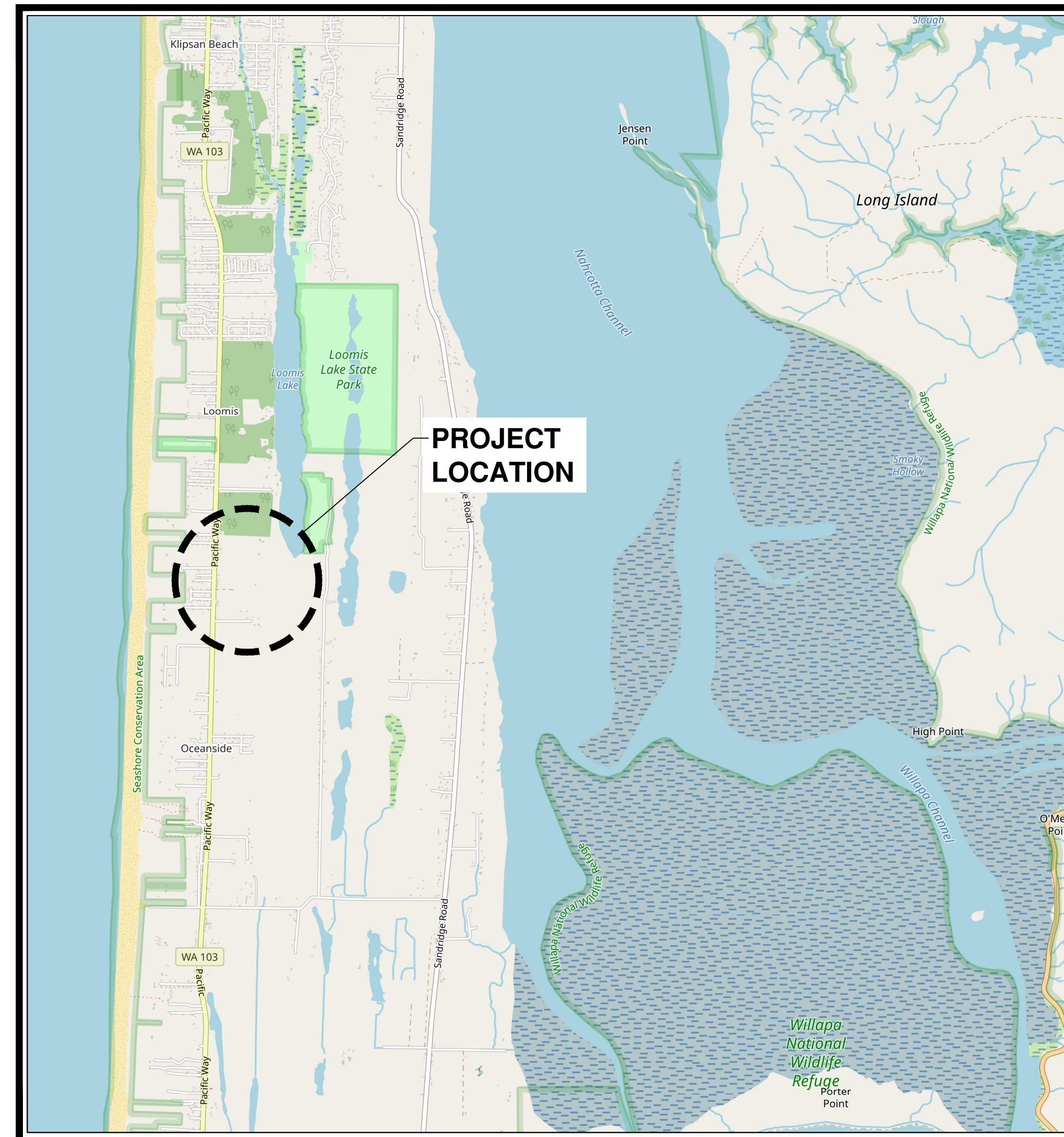
Project Directory

Owner:

**Pacific County FD1
Brad Weatherby
Assistant Chief
26110 Ridge Avenue
Ocean Park, Washington 98640
Phone No. 360 / 665-4451
Email: weatherby@pcfd1.org**

Design Team:

**Civil Engineers
Gibbs & Olson, Inc.
Cindy Gower, P.E.
1157 3rd Ave. Suite 219
Longview, Washington 98632
Phone No. 360 / 425-0991
Email: cgower@gibbs-olson.com**



Vicinity Map

Pacific County

**Public Works Director
Grace Amundsen-Barnkow**

**Pacific Co FD1 Site Development
Pacific County
Long Beach, Washington
Cover Sheet, Vicinity Map
& Project Contact Information**

Datum: NAD83 / NAVD 88
Survey Book: 1831

Project Milestone: **Permit**
Date: **04/07/2023**



Designed by: **CJG**
Checked by: **TJG**
Approved by: **CJG**

Project Number:
0788.0245

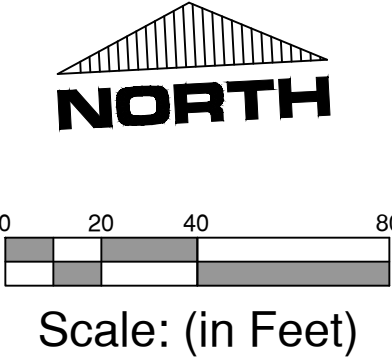
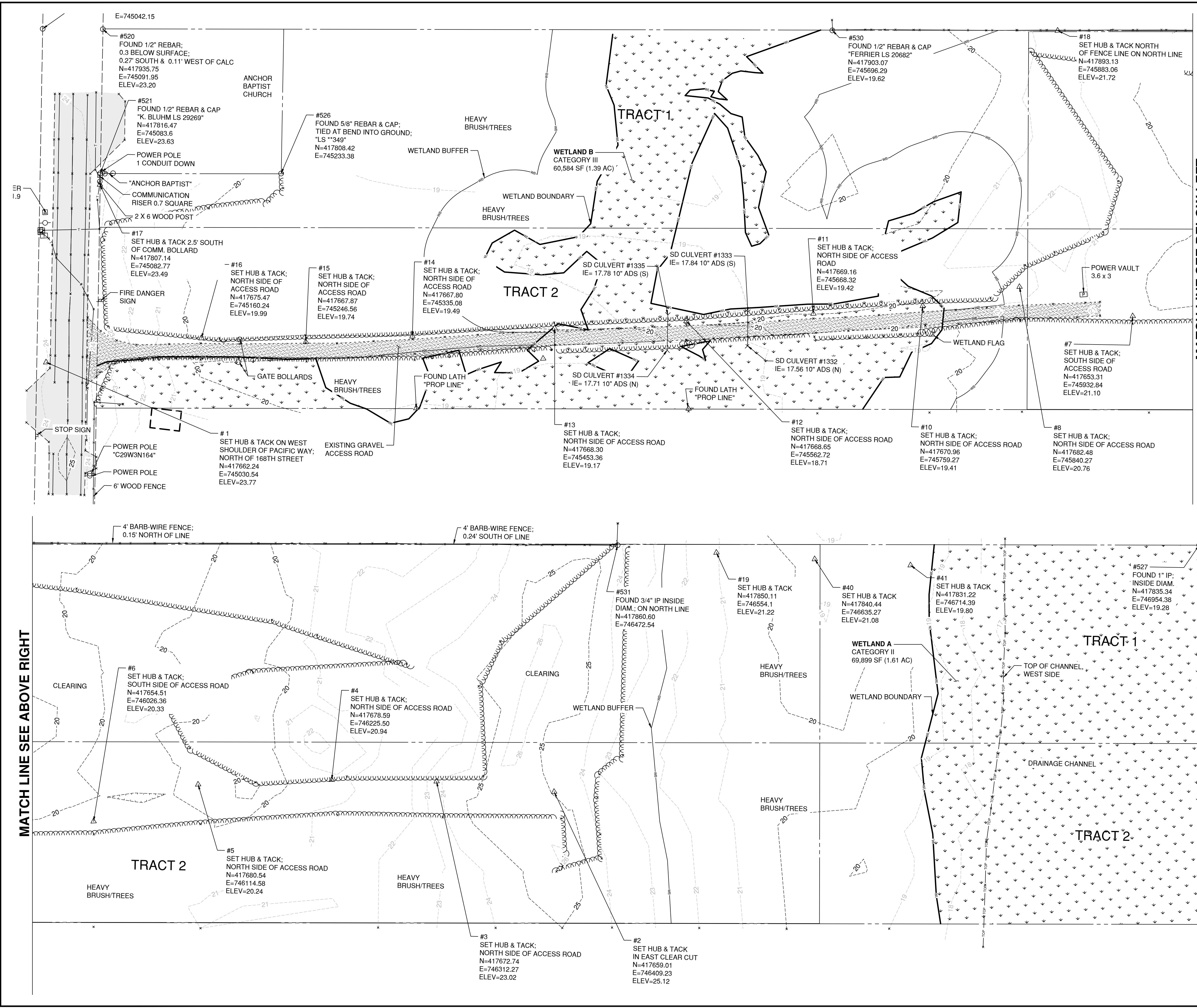
Drawing Number:
C0.0

Sheet Number:
1 of 12

APPROVED BY: _____ DATE _____
Pacific County

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- LEGEND:**
- Existing Wetlands
 - Existing Gravel
 - Existing Pavement
 - Brass centerline monument in concrete
5/8" Rebar with orange plastic survey cap (Gibbs & Olson WA 49270)
 - Rebar with plastic cap (As Noted)
 - Rebar, survey cap missing
 - Calculated point, not set
 - Plat, bearing and distance
 - Record of Survey
 - Found Corner Monuments as noted
 - Control Point
 - Survey Monument Number
 - Easement
 - Driveway/Approach
 - Power Line
 - Power Pole
 - Guy Anchor
 - Power Transformer
 - Power Vault
 - Telephone Riser
 - Telephone Vault
 - Storm Drain Manhole
 - Storm Drain Catch Basin
 - Sanitary Sewer Manhole
 - Water Meter
 - Water Valve
 - Fire Hydrant (3-Port)
 - Luminaries
 - Mailbox
 - Sign
 - Ornamental Tree
 - Landscape Shrub
 - Handicap Parking Symbol
 - Power, Field Locate marks
 - Telephone, Field Locate Marks
 - Cable, Field Locate Marks
 - Gas, Field Locate Marks
 - Storm Drain, Field Locate Marks
 - Sanitary Sewer, Field Locate Marks
 - Water, Field Locate Marks
 - Wetland Boundary
 - Wetland Buffer
- GENERAL NOTES:**
1. WETLAND BUFFERS AND WETLAND BOUNDARIES HAVE BEEN IDENTIFIED AND DELINEATED BY ECOLOGICAL LAND SERVICES, INC. SEE APPENDIX F WETLAND VERIFICATION REPORT, DATED NOVEMBER 11, 2019, FOR FURTHER INFORMATION.

MATCH LINE SEE BELOW LEFT

MATCH LINE SEE ABOVE RIGHT

Pacific Co FD1 Site Development
Pacific County
 Long Beach, Washington
 Existing Conditions Plan

Datum: NAD83 / NAVD 88
 Survey Book: 1831

Project Milestone: **Permit**
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 Checked by: T.JG
 Approved by: C.JG

Project Number:
0788.0245

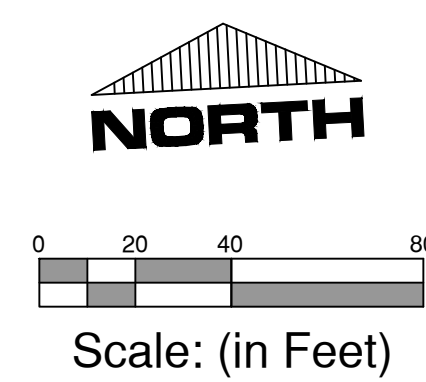
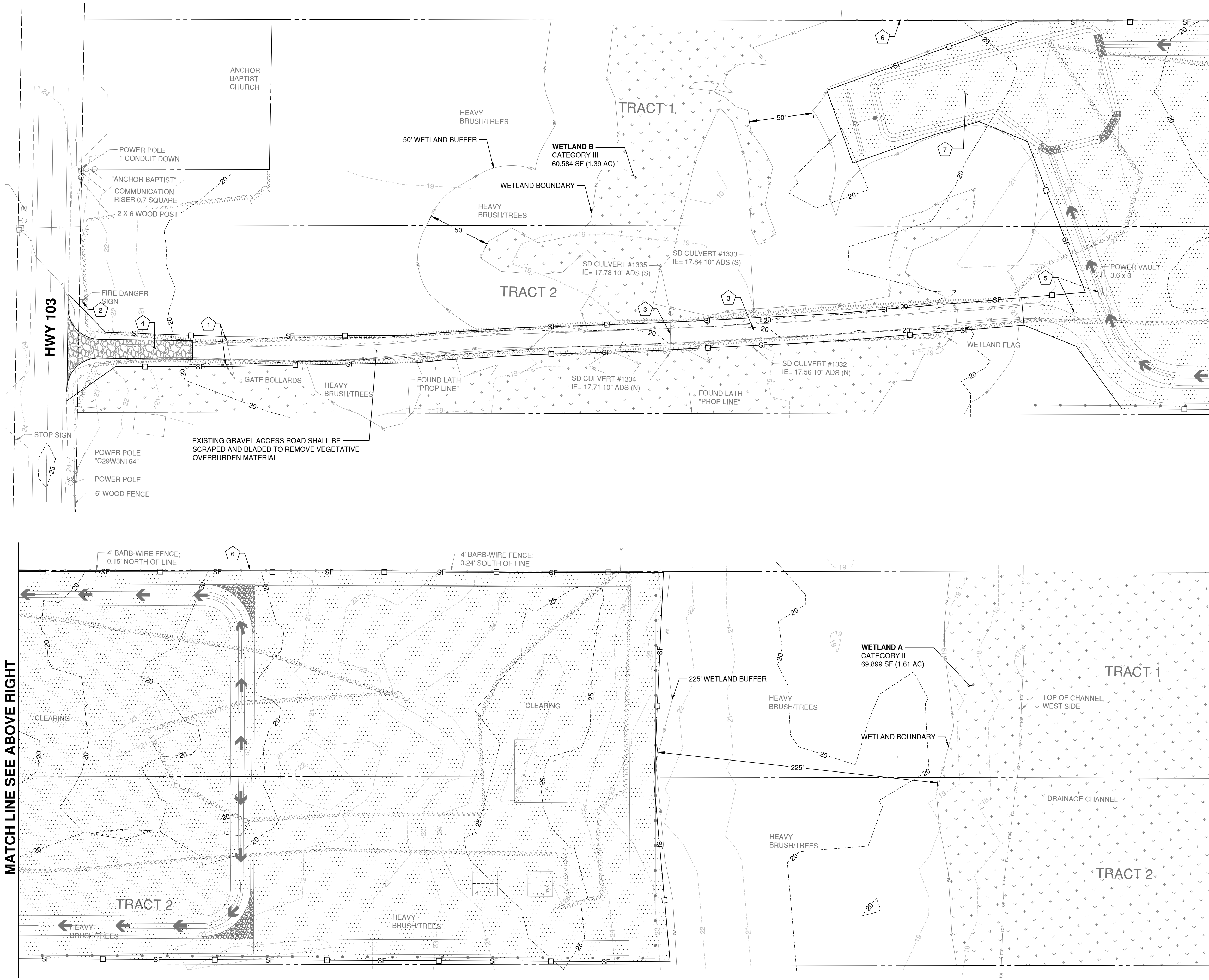
Drawing Number:
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Sheet Number:
4 of 12

**Know what's below.
 Call 811 before you dig.**

CAUTION: LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

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LEGEND:

- EXISTING WETLANDS
- CLEARING AND GRUBBING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- INSTALL SILT FENCE PER WSDOT STD DTL I-30.15-02, DWG C1.1

SITE PREPARATION NOTES:

1. PROTECT EXISTING GATE BOLLARDS
2. PROTECT EXISTING SIGN
3. PROTECT EXISTING CULVERT
4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL, DWG C1.1
5. REMOVE AND RELOCATE EXISTING POWER VAULT INFRASTRUCTURE AND PIPING TO EDGE OF PROPOSED ACCESS ROAD. OWNER TO MARK PROPOSED LOCATION IN FIELD. NOTE, NO TRANSFORMER IN VAULT.
6. PROTECT EXISTING FENCE
7. USE ROUGH-GRADED PERMANENT FLOW CONTROL POND AS A TEMPORARY SEDIMENT TRAP. SEE DETAIL, DWG C1.1

GENERAL SITE PREP NOTES:

1. WETLAND BUFFERS AND WETLAND BOUNDARIES HAVE BEEN IDENTIFIED AND MAPPED BY ECOLOGICAL LAND SERVICES, INC. WETLAND LIMITS REVERIFIED ECOLOGICAL LAND SERVICES NOVEMBER 2019.
2. WETLAND DELINEATION TO BE MARKED IN THE FIELD PRIOR TO ANY LAND DISTURBING ACTIVITY.
3. CALL PACIFIC COUNTY FOR A PRECONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBING ACTIVITY.
4. PLASTIC SHEETING MAY BE USED TO PROTECT SLOPES AND STOCKPILES FROM RAINFALL AND EROSION IF NEEDED, SEE DETAIL, DWG C1.1
5. WITHIN ALL AREAS THAT HAVE BEEN SUBJECT TO CLEARING AND GRADING, ALL GRASS AND LANDSCAPED AREAS SHALL HAVE A MINIMUM 8-INCH SETTLED TOPSOIL LAYER PRIOR TO SEEDING AND PLANTING THAT MEETS THE CRITERIA PER BMP T5.13 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOL V.
6. TO STABILIZE EXPOSED SOILS THAT ARE NOT BEING MADE IMPERVIOUS SHALL BE MULCHED PER BMP C121 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON WITHIN 15 DAYS OF EXPOSURE. EARLY APPLICATION OF GRAVEL BASE WILL BE USED TO STABILIZE EXPOSED SOILS ON AREAS TO BE PAVED.

MATCH LINE SEE BELOW LEFT

MATCH LINE SEE ABOVE RIGHT



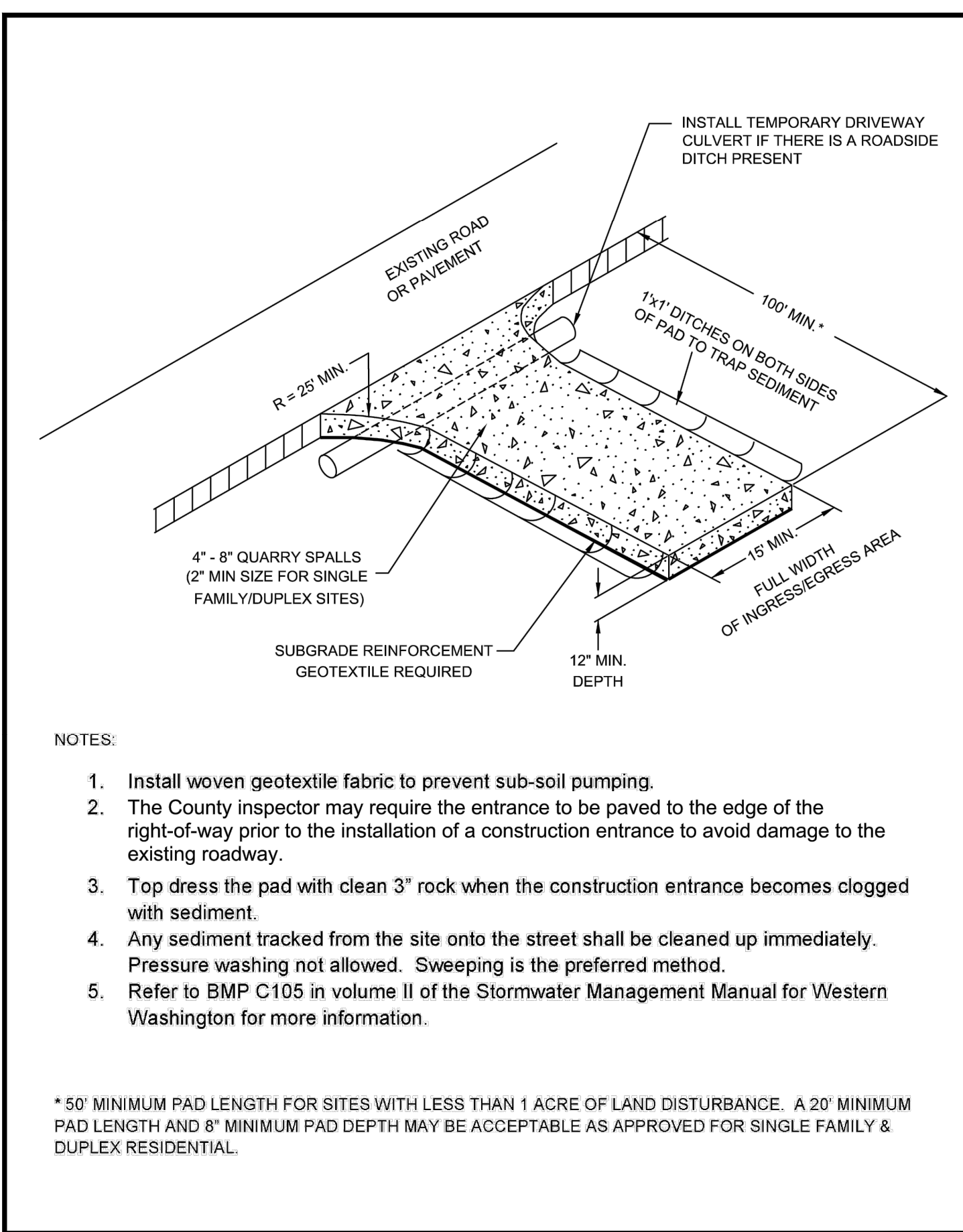
Pacific Co FD1 Site Development
Pacific County
 Long Beach, Washington
 Site Preparation Plan

Datum: NAD83 / NAVD 88
 Survey Book: 1831
 Project Milestone: **Permit**
 Date: **04/07/2023**

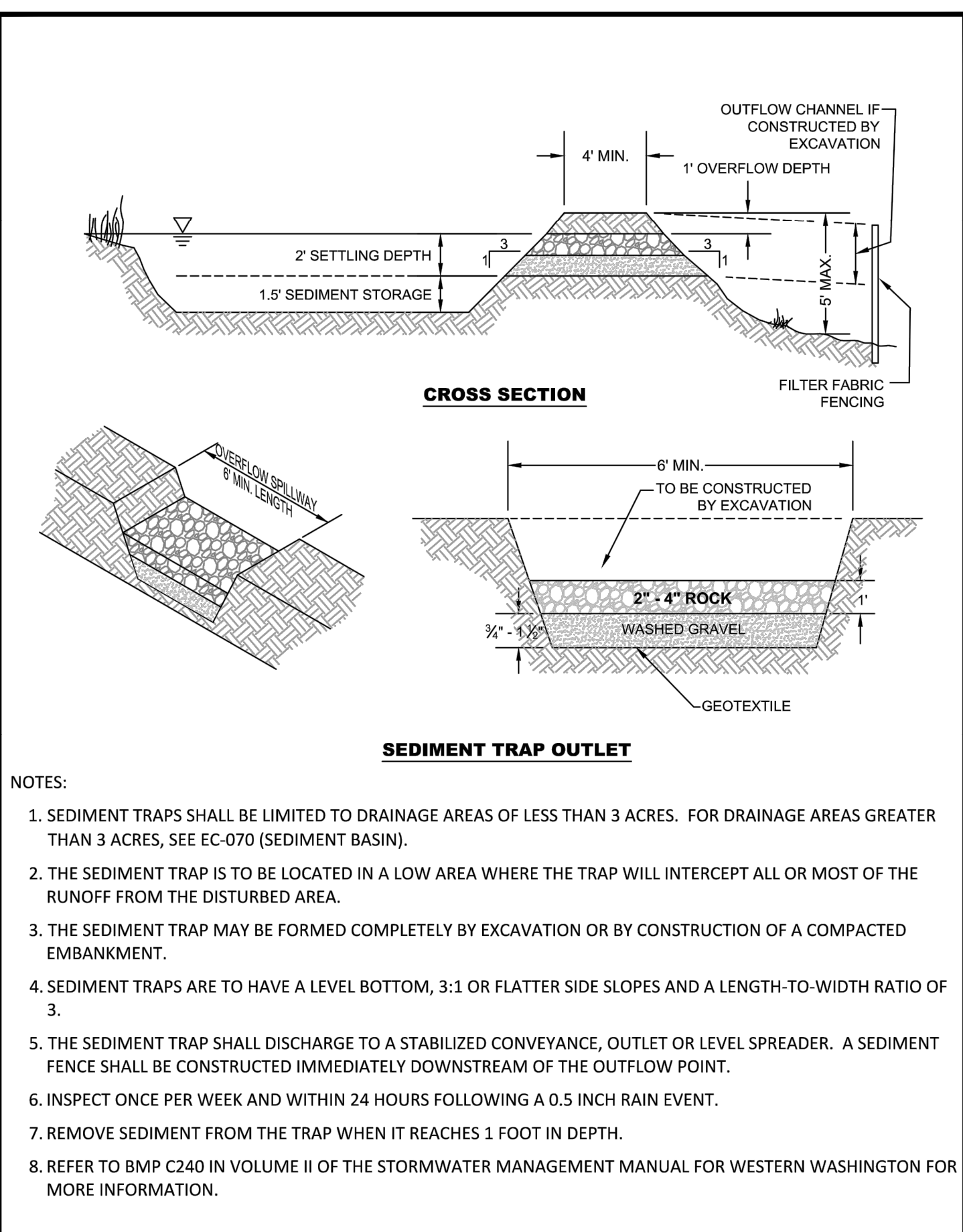


Designed by: CJG
 Checked by: TJG
 Approved by: CJG
 Project Number:
0788.0245
 Drawing Number:
C1.0
 Sheet Number:
5 of 12

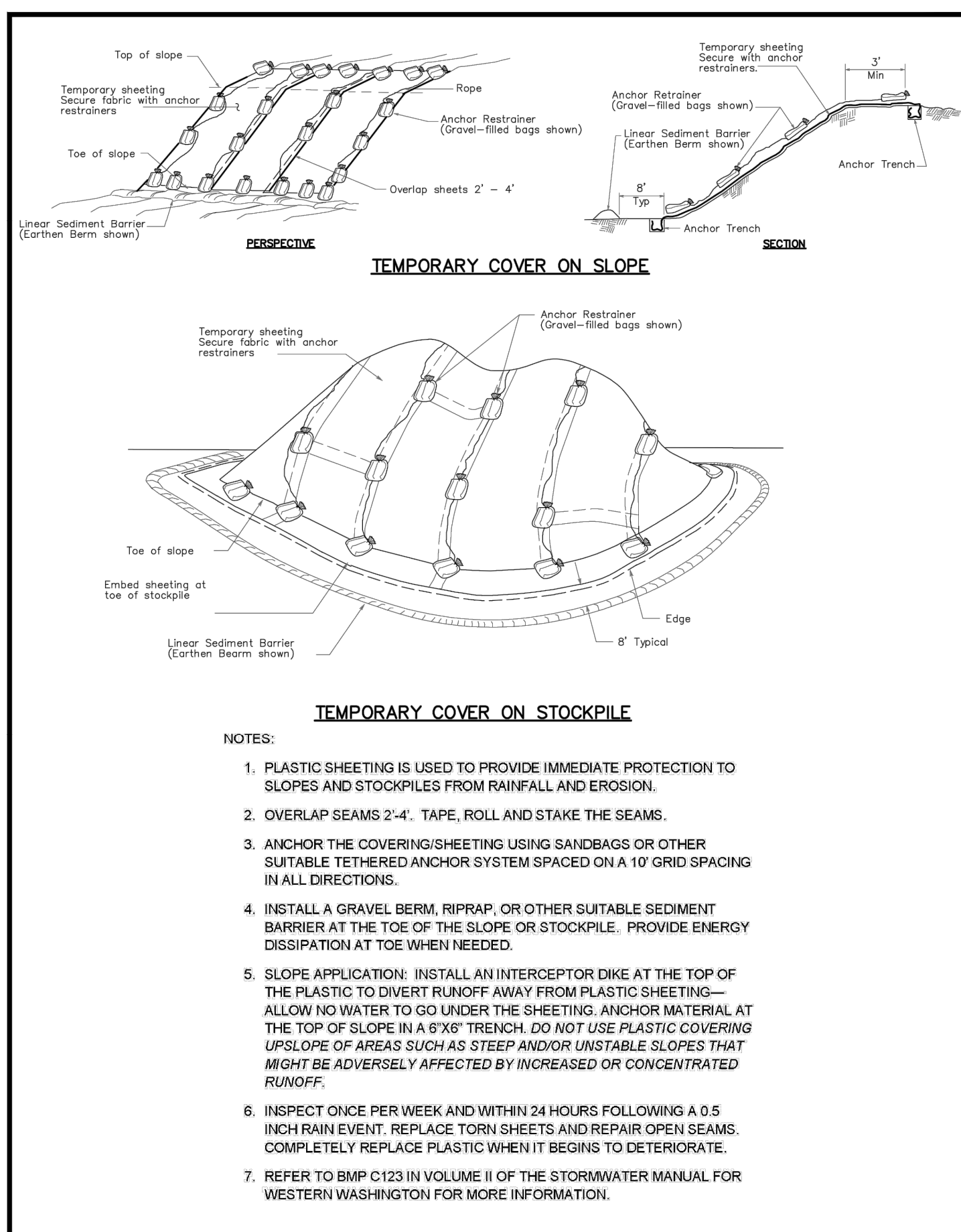
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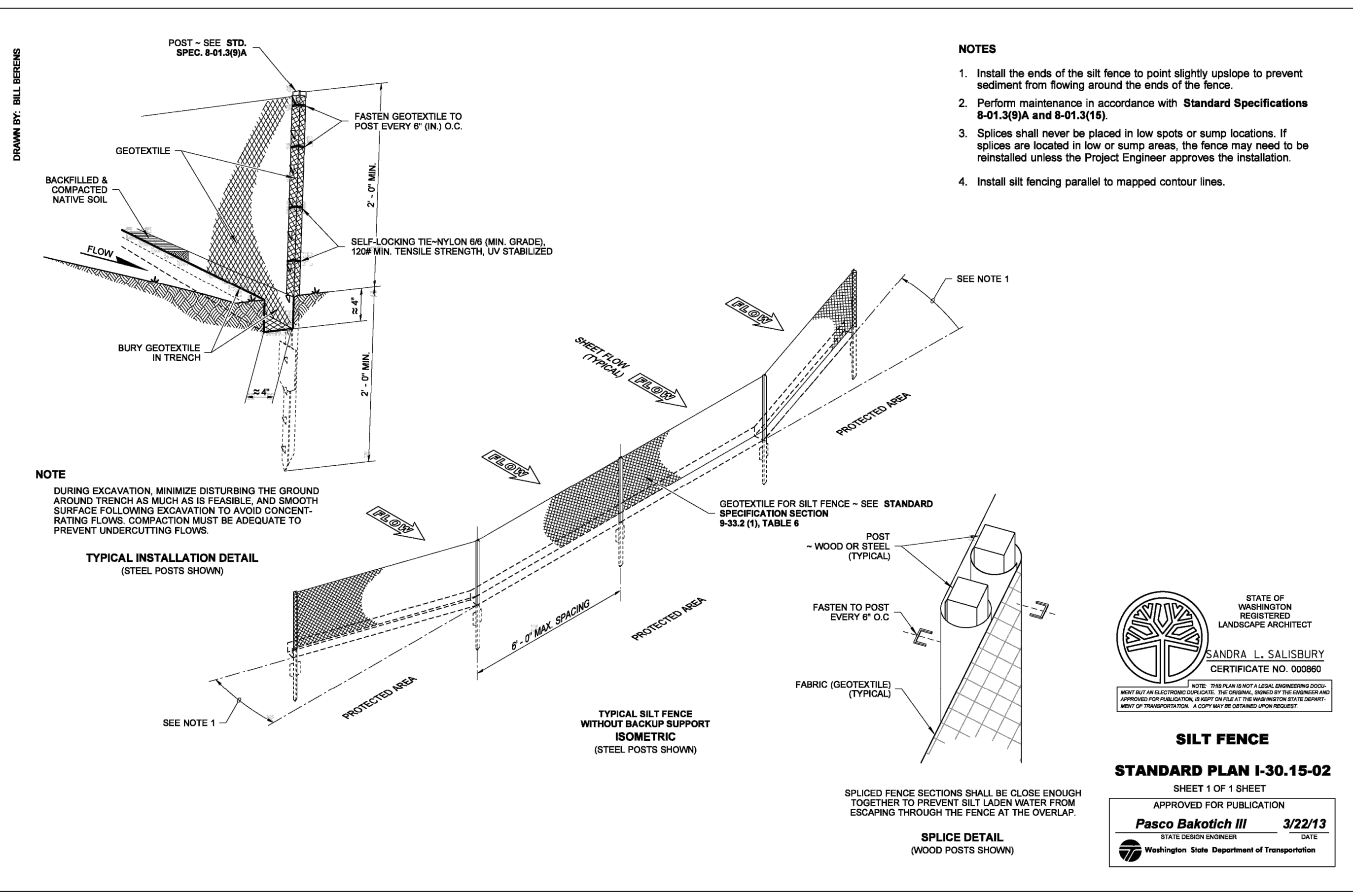
1 C1.1 **Stabilized Construction Entrance Detail**
N.T.S.



2 C1.1 **Sediment Trap Detail**
N.T.S.



3 C1.1 **Plastic Covering/Sheeting**
N.T.S.



Pacific Co FD1 Site Development
 Pacific County
 Long Beach, Washington
 Site Preparation Details

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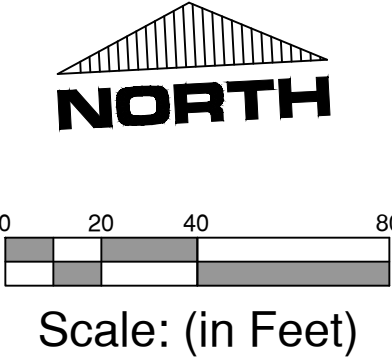
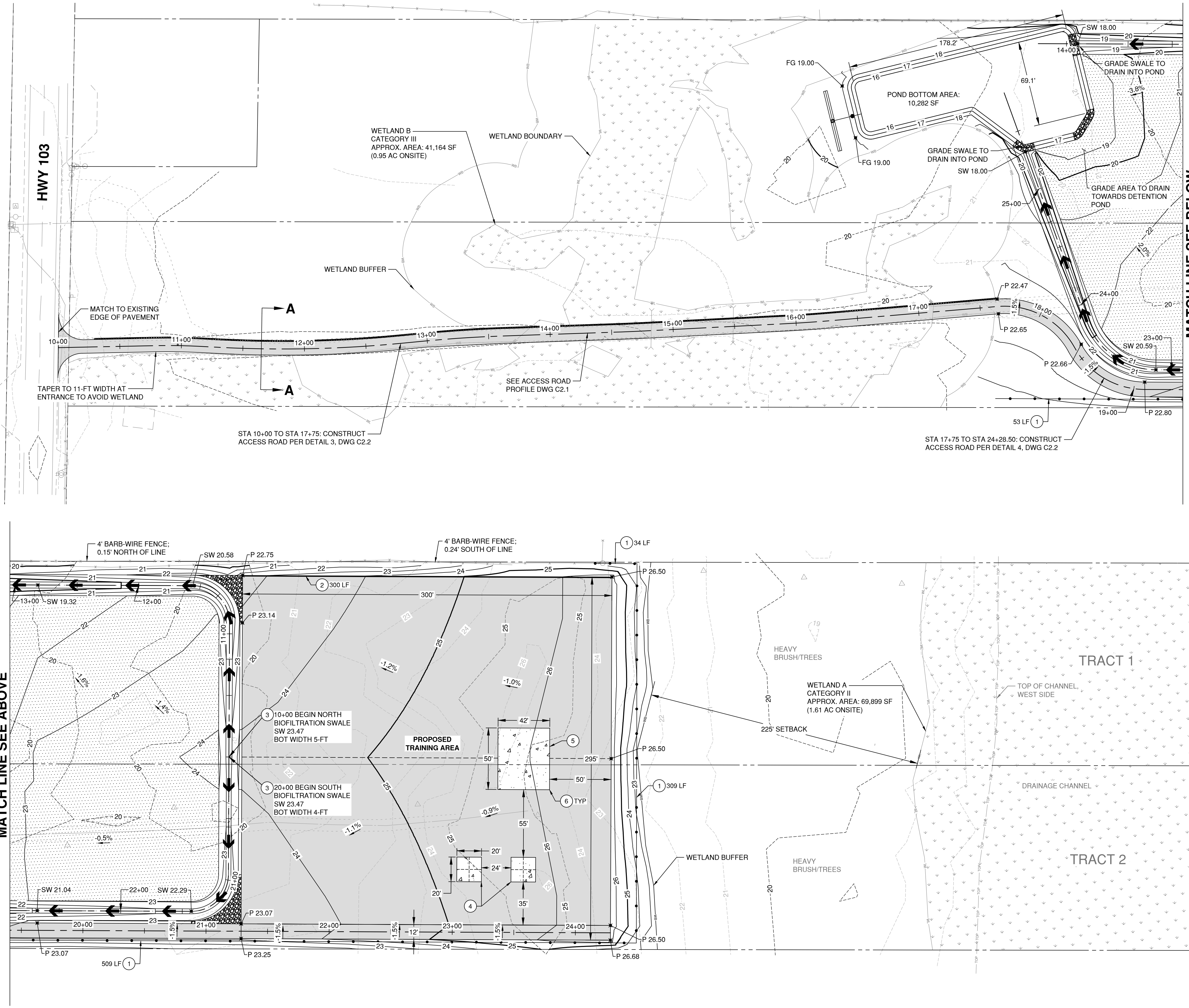
Designed by: CJG
 Checked by: TJG
 Approved by: CJG

Project Number:
0788.0245

Drawing Number:
C1.1

Sheet Number:
6 of 12

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LEGEND:

- EXISTING WETLAND
- ASPHALT PAVEMENT, SEE TYPICAL SECTION, DWG C2.2
- TOPSOIL AND SEEDING PER BMP T5.13 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
- CONCRETE PAD
- CONTROL JOINT
- SEE DWG C2.2 FOR TYPICAL SECTION
- P 33.40 PAVEMENT ELEVATION
- FG 33.40 FINISHED GROUND ELEVATION
- SW 33.40 SWALE ELEVATION
- PROPOSED GRADE BREAKLINE
- 24.0- EXISTING CONTOUR
- 24.0- PROPOSED CONTOUR
- BIOFILTRATION SWALE FLOW LINE
- PROPOSED CHAIN LINK FENCE, SEE NOTE 1

SITE & GRADING CONSTRUCTION NOTES:

1. INSTALL 6-FT CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03, DWG C2.3. THE CHAIN LINK FENCE IS TO BE AN ADDITIVE ALTERNATIVE BID ITEM
2. CONSTRUCT ASPHALT ROLLED CURB PER DETAIL, DWG C2.3
3. SEE BIOFILTRATION SWALE PROFILES, DWG C2.2
4. CONSTRUCT 20' x 20' x 6" CONCRETE PADS W/ CONTROL JOINTS. SEE CONCRETE SECTION DETAIL, DWG C2.3
5. CONSTRUCT 42' x 50' x 8" CONCRETE BUILDING FOUNDATION W/ FASTENER FOR ATTACHMENT. SLOPE EAST TO WEST FOR DRAINAGE (0.3% MAX). SEE CONCRETE DETAILS, DWG C2.3
6. CONSTRUCT FOUNDATION PER DETAILS, DWG C2.3

GENERAL SITE NOTES:

1. WITHIN ALL AREAS THAT HAVE BEEN SUBJECT TO CLEARING AND GRADING, ALL GRASS AND LANDSCAPED AREAS SHALL HAVE A MINIMUM 8-INCH SETTLED TOPSOIL LAYER PRIOR TO SEEDING AND PLANTING THAT MEETS THE CRITERIA PER BMP T5.13 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOL V.
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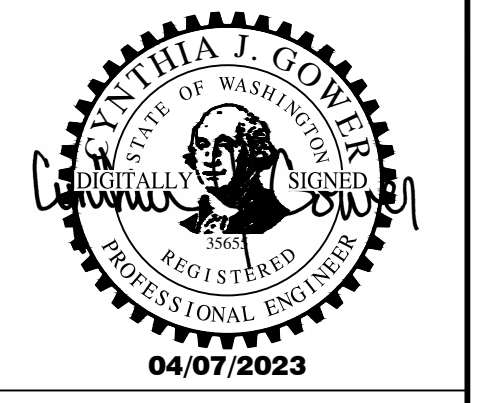
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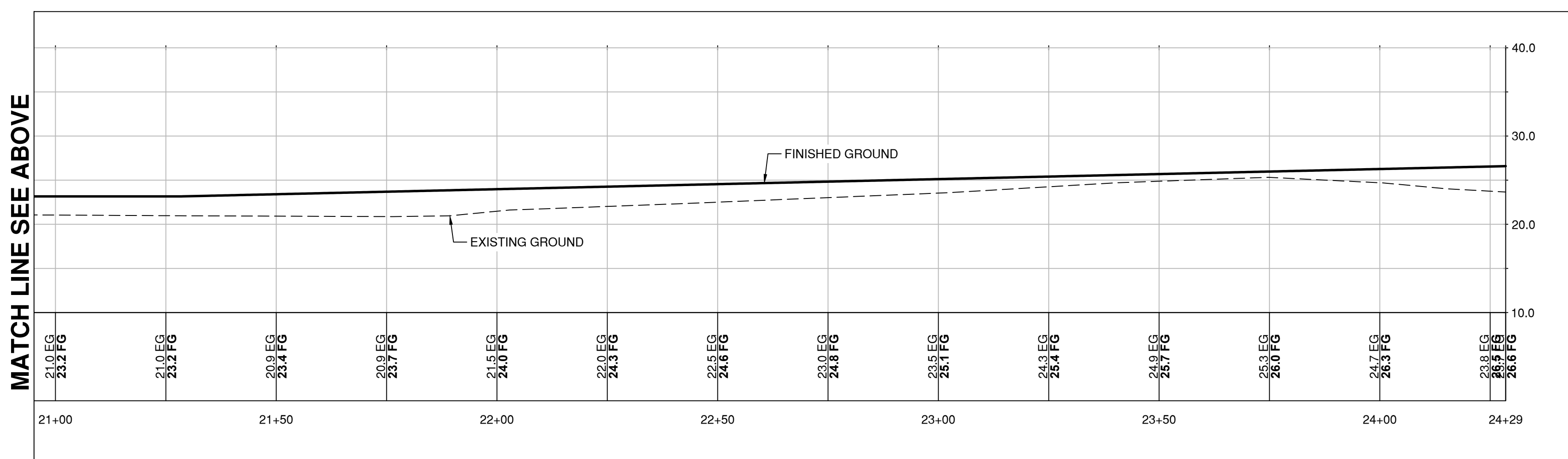
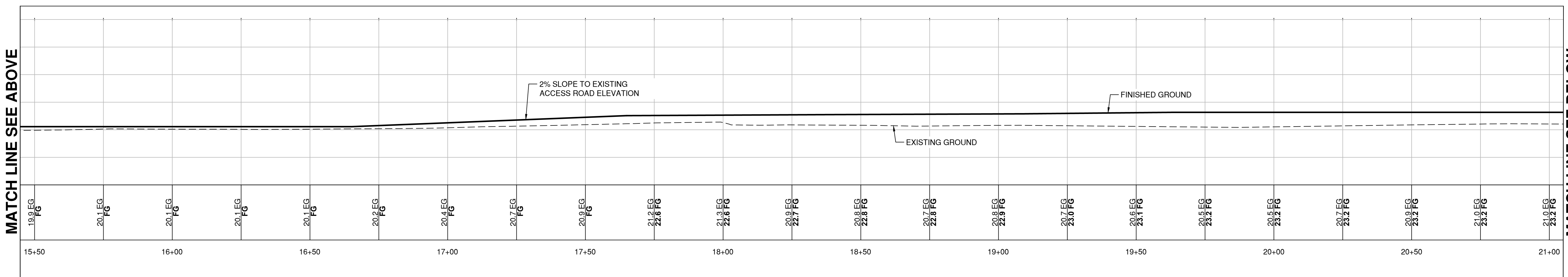
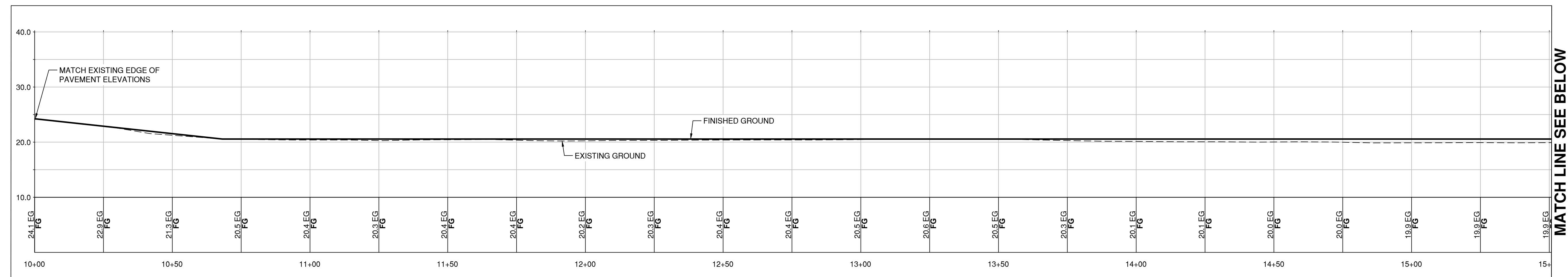
**Pacific Co FD1 Site Development
Pacific County
Long Beach, Washington
Site & Grading Plan**

Datum: NAD83 / NAVD 88
Survey Book: 1831
Project Milestone: **Permit**
Date: **04/07/2023**



Designed by: C/JG
Checked by: T/JG
Approved by: C/JG
Project Number:
0788.0245
Drawing Number:
C2.0
Sheet Number:
7 of 12

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1 Access Road Profile
 C2.1 Scale: 1" = 20'

Pacific Co FD1 Site Development

Pacific County

Long Beach, Washington

Site Details

Datum: NAD83 / NAVD 88

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C2.1

Sheet Number:
8 of **12**

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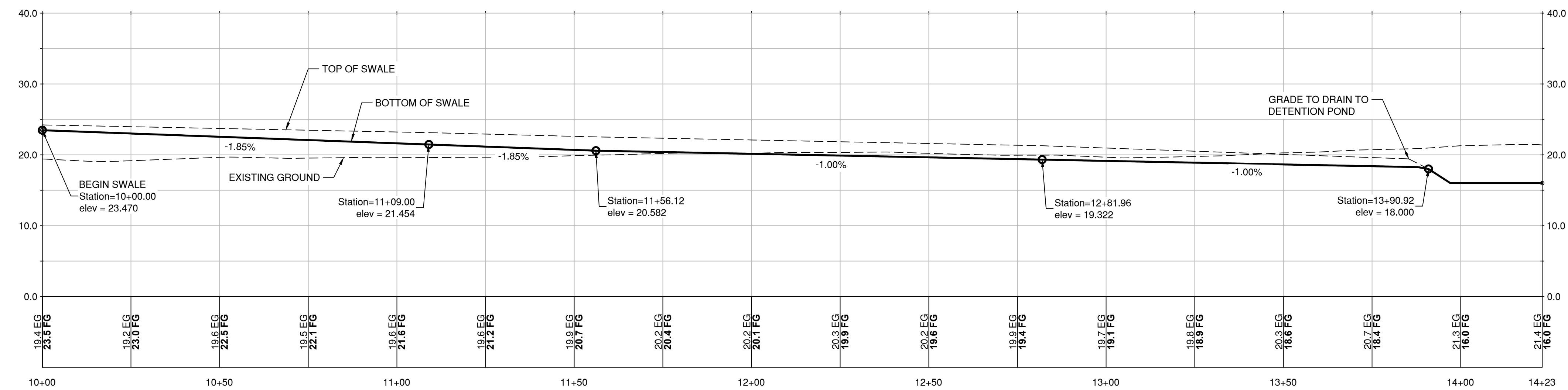
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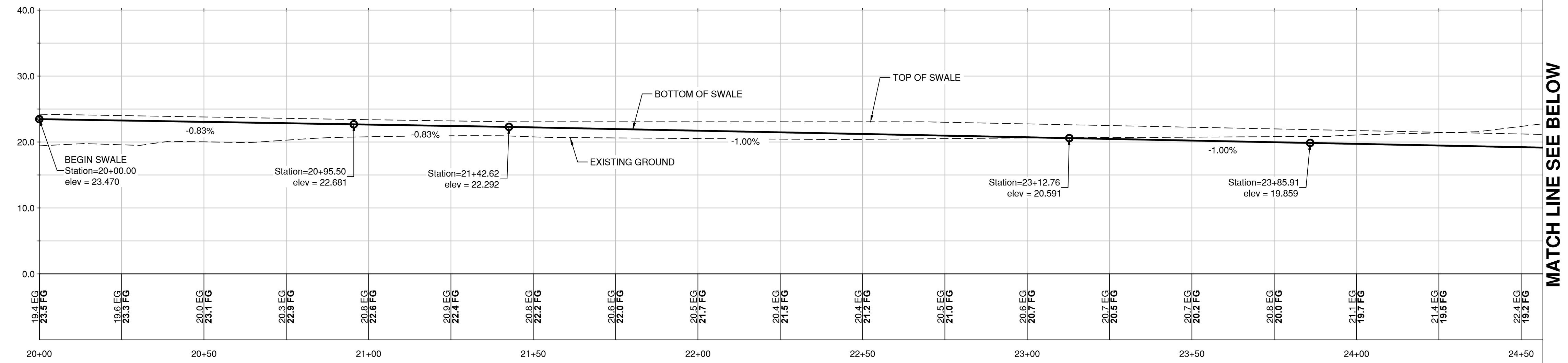
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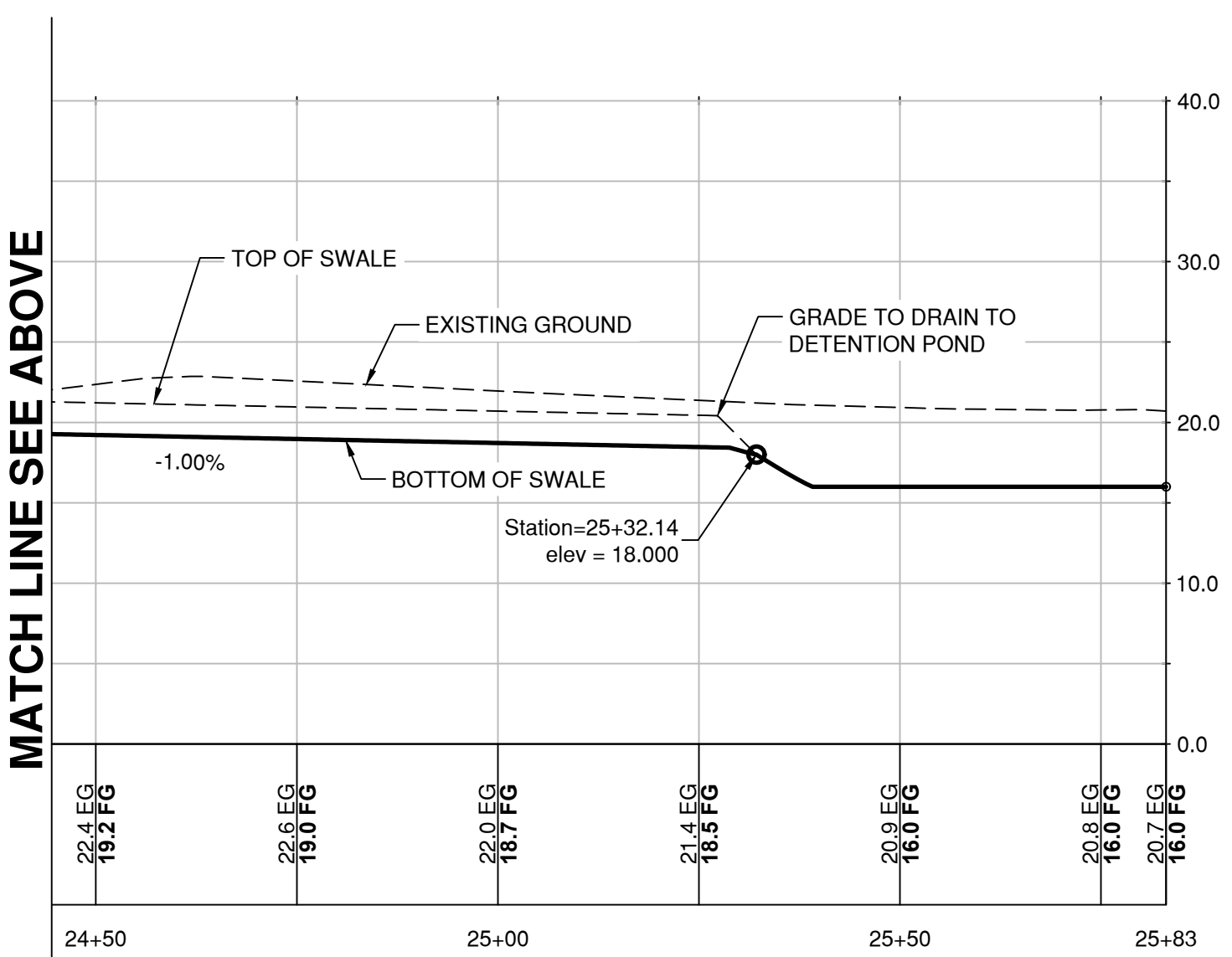
1 North Biofiltration Profile
Scale: 1" = 20'

GENERAL NOTES:
1. SEE DWG C3.1 FOR BIOFILTRATION CROSS SECTION



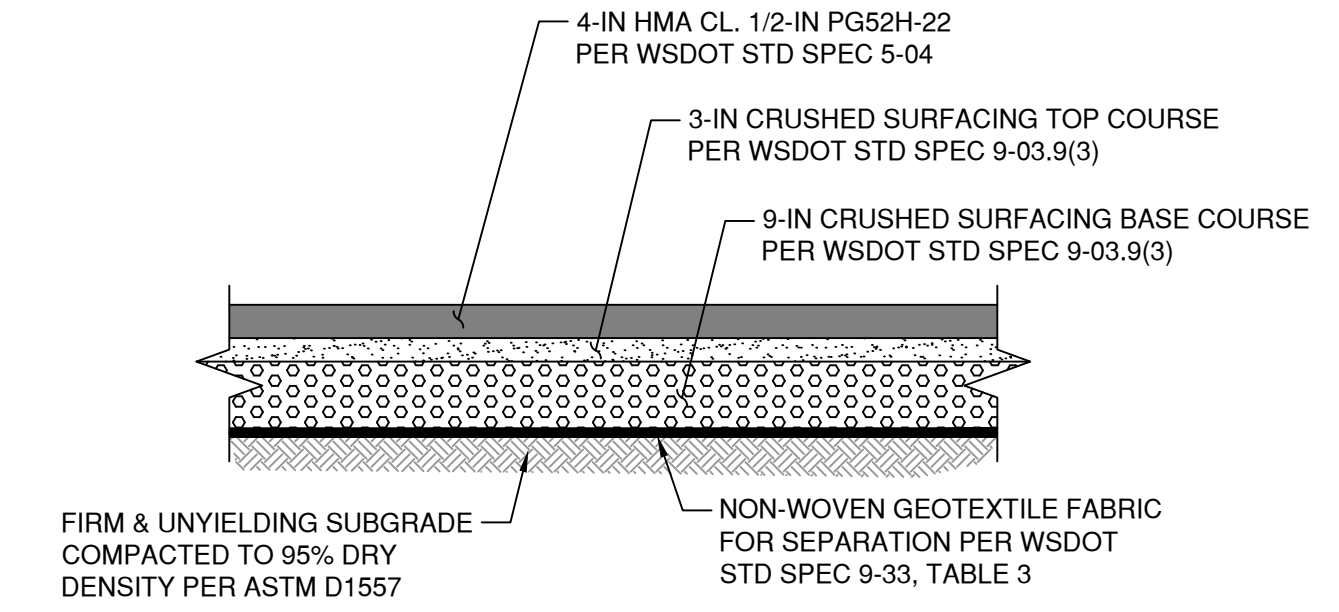
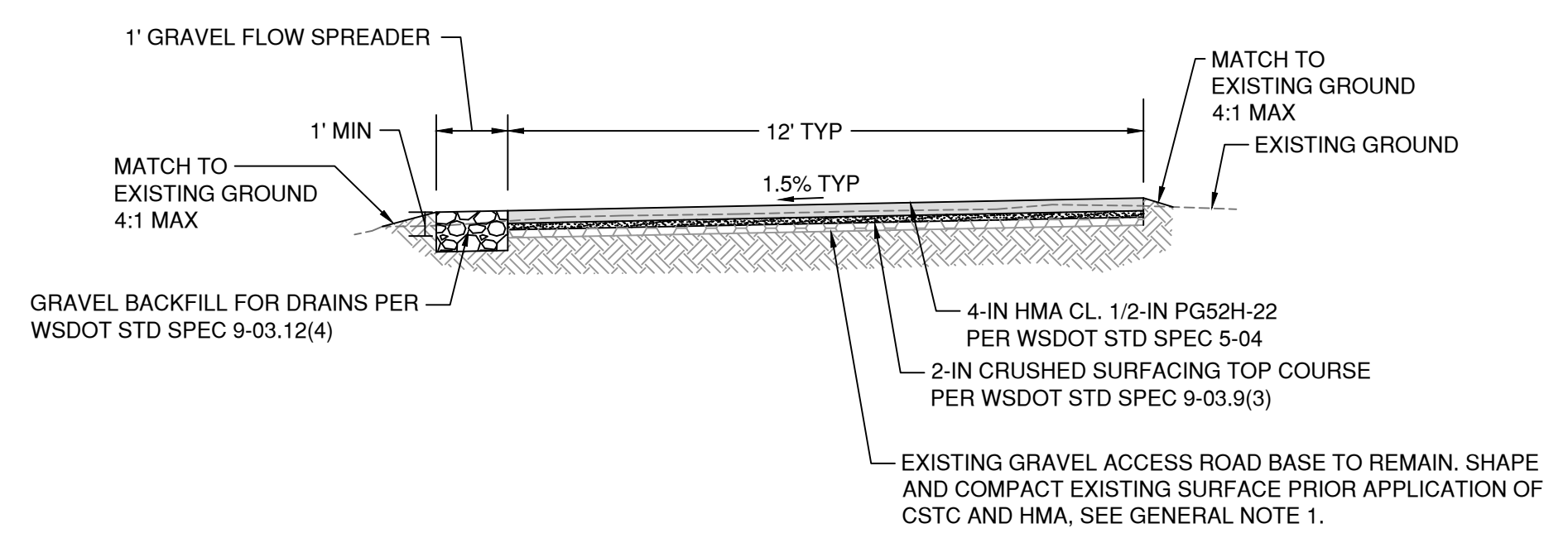
2 South Biofiltration Profile
Scale: 1" = 20'

GENERAL NOTES:
1. SEE DWG C3.1 FOR BIOFILTRATION CROSS SECTION



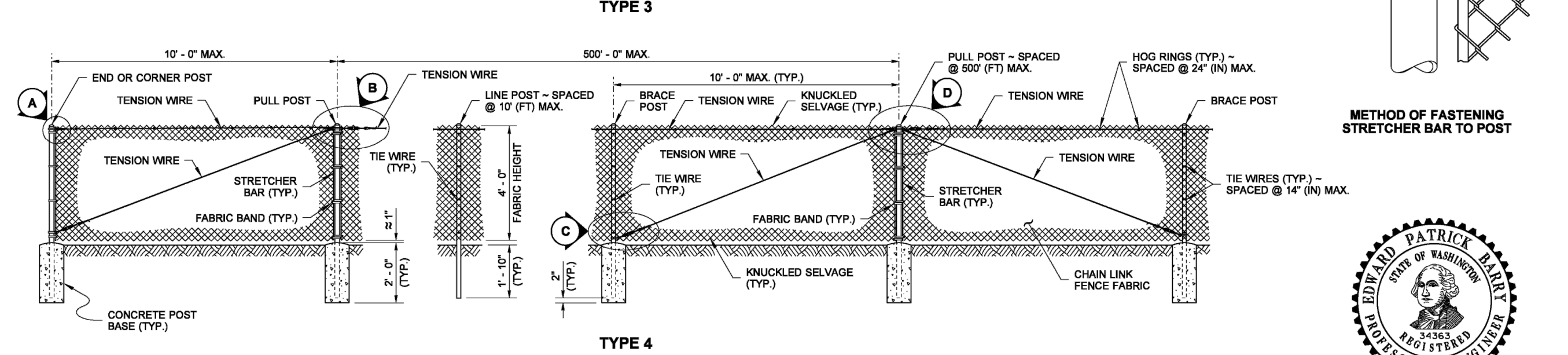
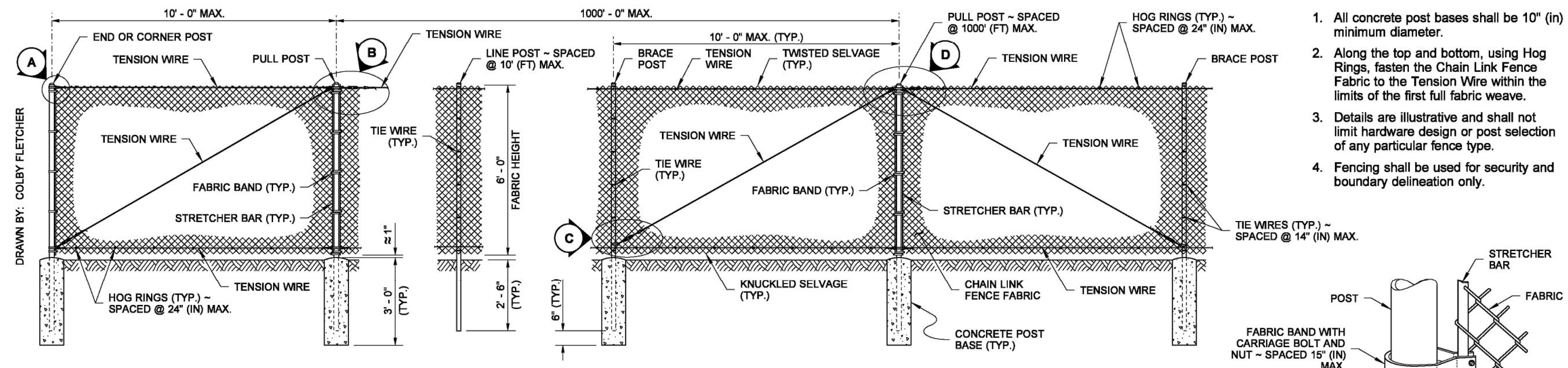
3 Typical Section A-A - Asphalt Access Road
Not to Scale

GENERAL NOTES:
1. EXISTING GRAVEL ACCESS ROAD SHALL BE SCRAPED / BLADED TO REMOVE VEGETATIVE OVERBURDEN MATERIAL ON EXISTING ROAD.
2. SEE DWG C2.1 FOR ASPHALT ACCESS ROAD CENTERLINE PROFILE.



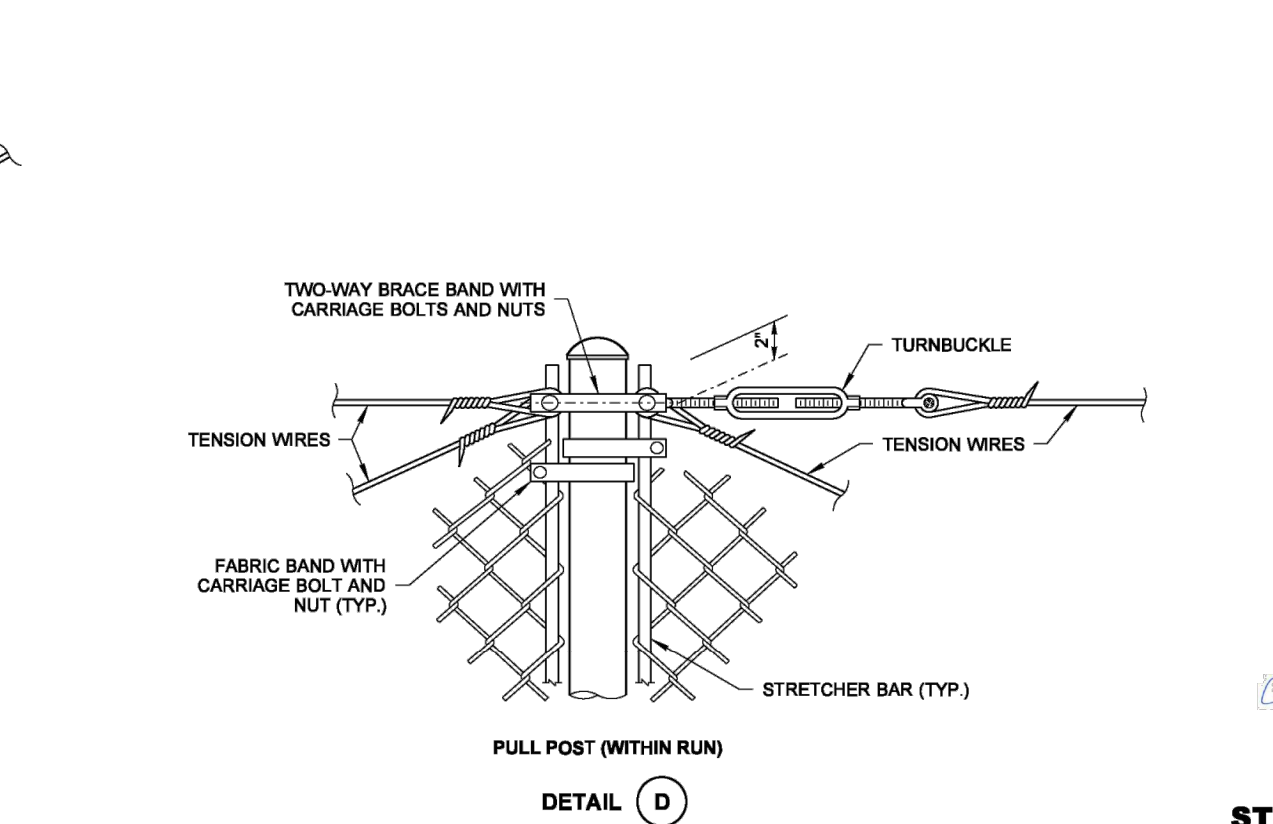
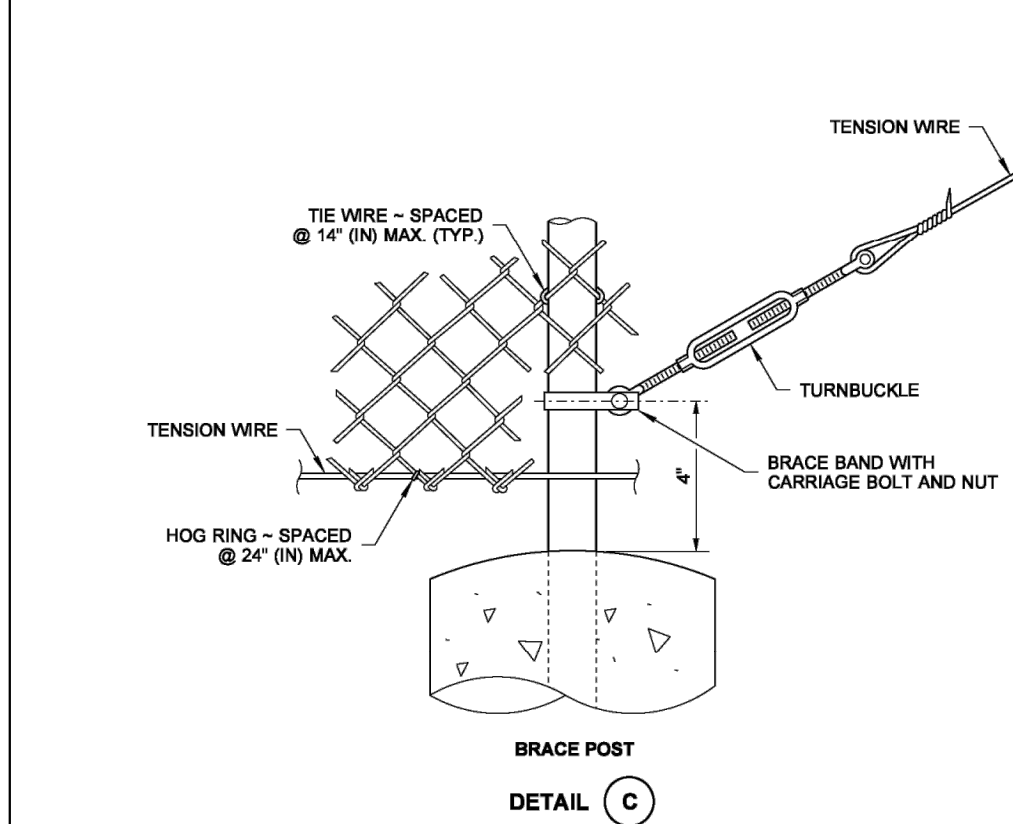
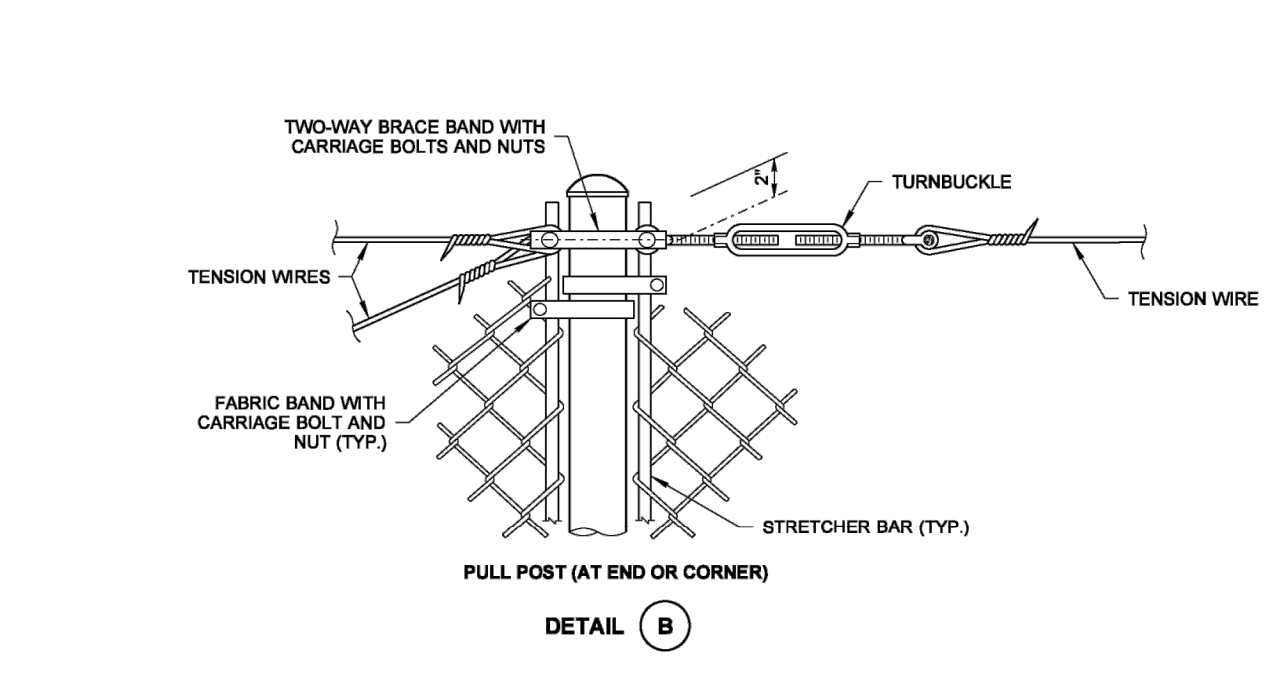
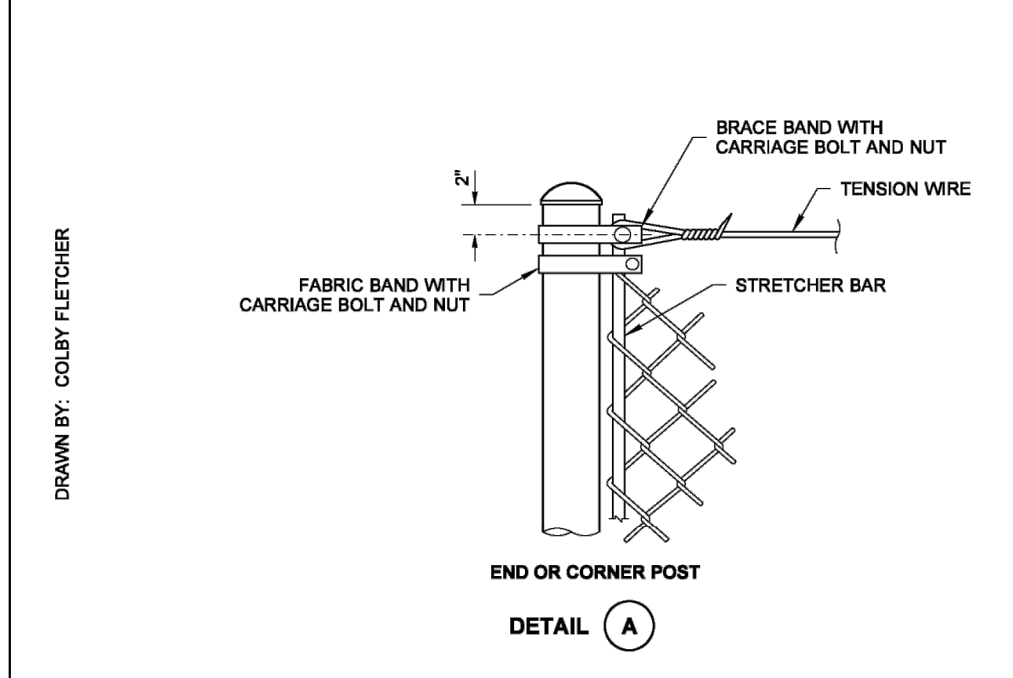
4 Asphalt Training Area - Pavement Section
Not to Scale

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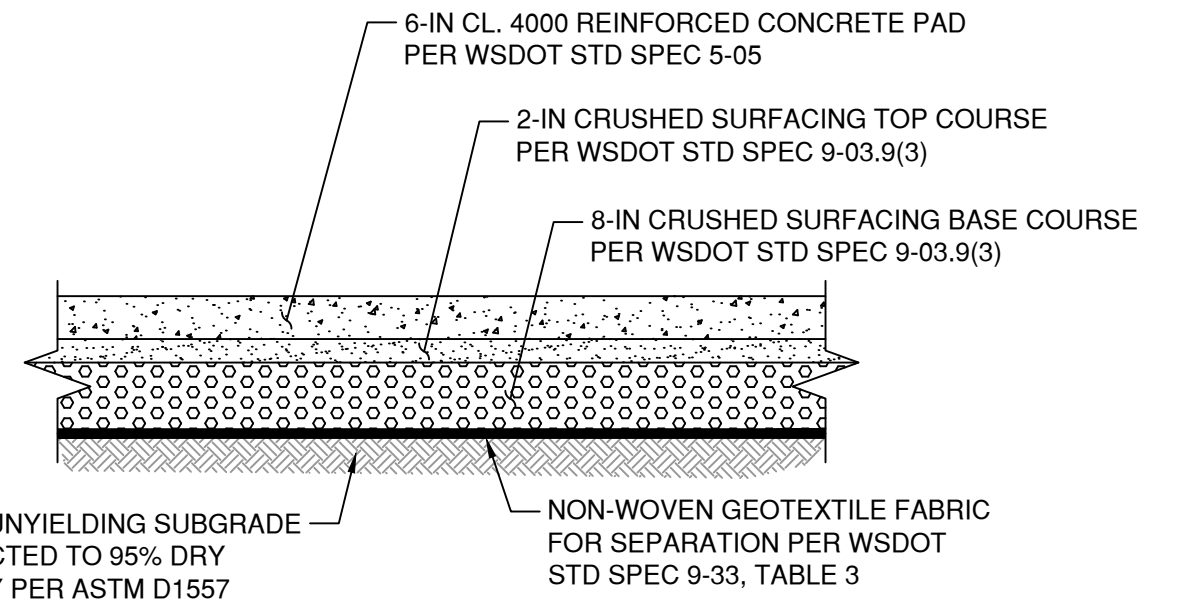
POST	PIPE		ROLL FORMED	
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (LBS)	
END, CORNER, OR PULL POST	2 1/2\" DIAM.	(Y)	5.10	
LINE OR BRACE POST	2\" DIAM.	(Z)	1.85	

FABRIC LOOP - 2 SIDES (Y)	FENCE LINE (Z)



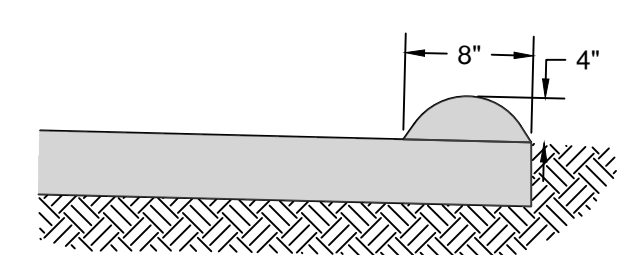
Barry, Ed.
Jul 14 2015 11:14 AM
CSE
CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-03
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 14 2015 11:24 AM
STATE LICENSE ENGINEER
Washington State Department of Transportation

Barry, Ed.
Jul 14 2015 11:14 AM
CSE
CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-03
SHEET 2 OF 2 SHEETS
APPROVED FOR PUBLICATION
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Washington State Department of Transportation

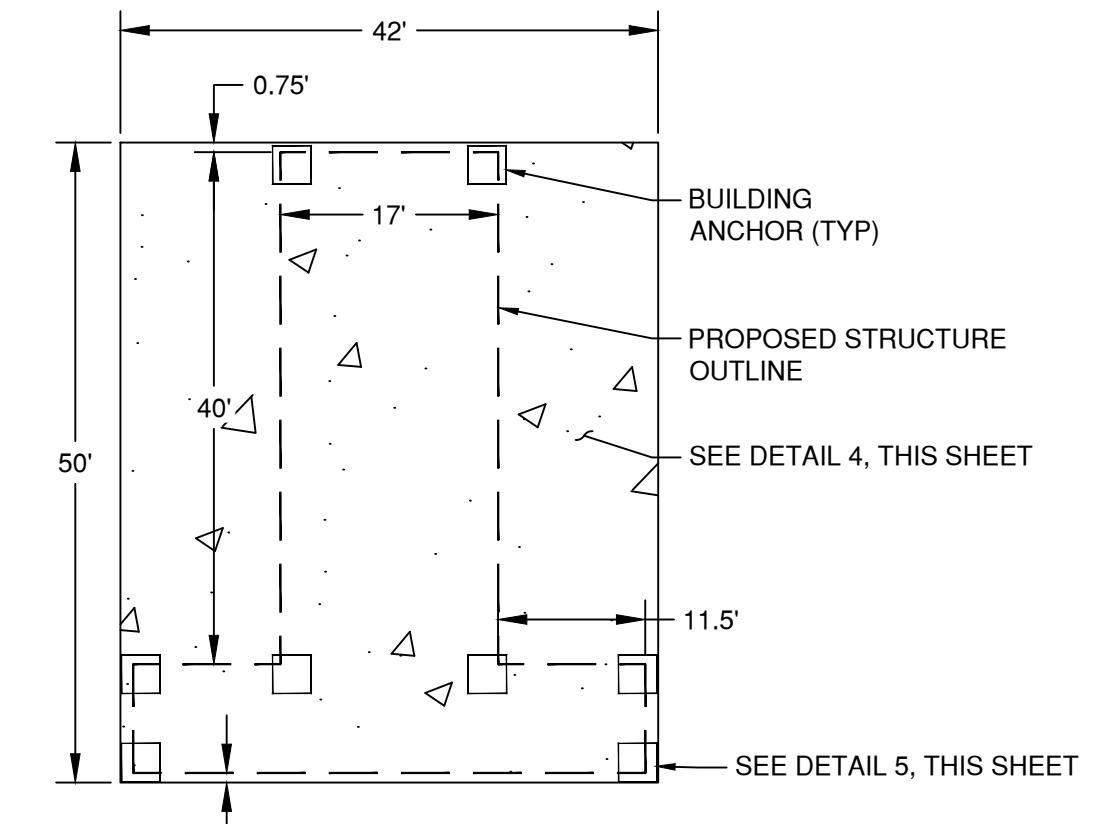


1
C2.3
Concrete Pad Section
Not to Scale

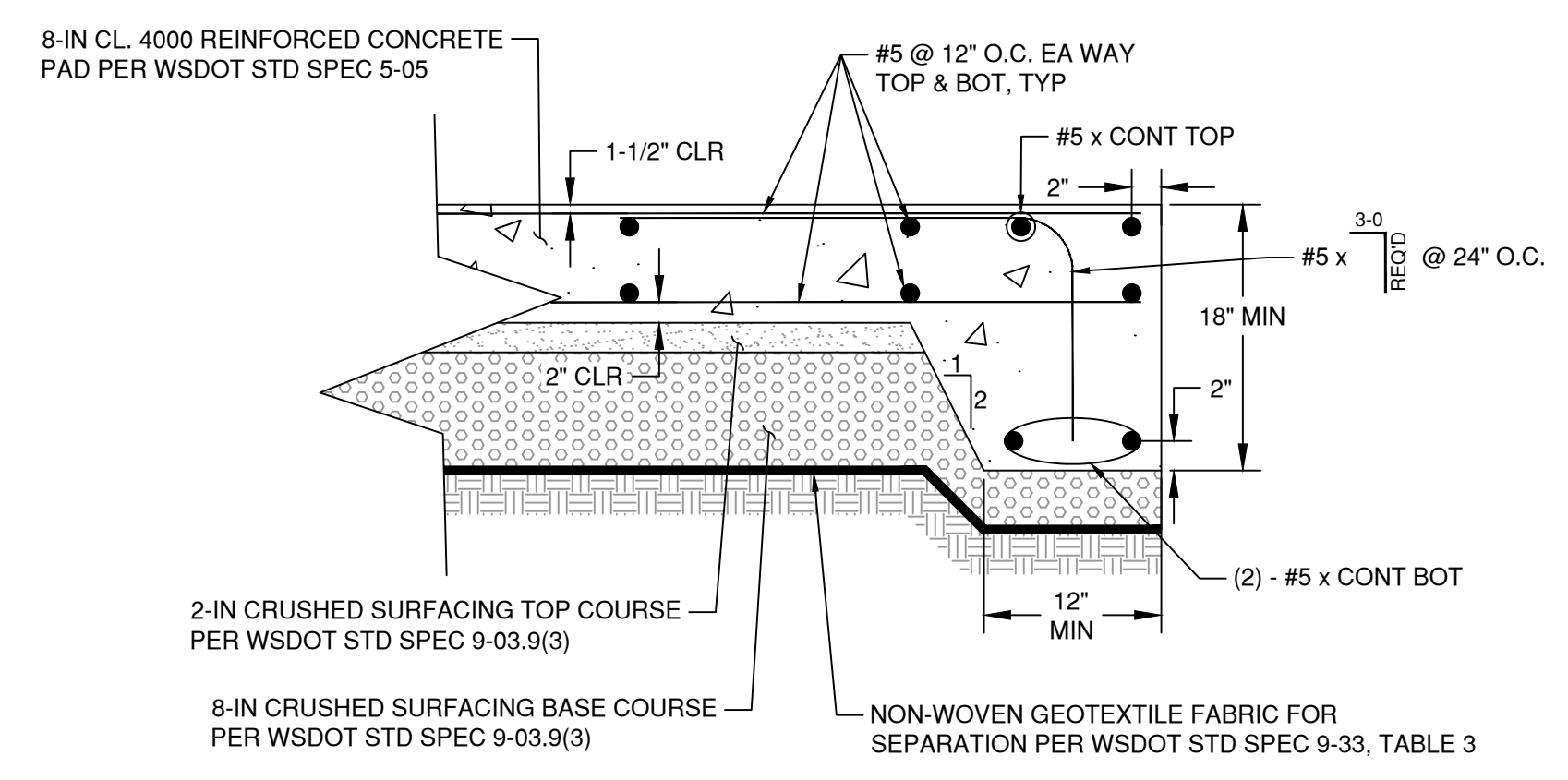
- GENERAL NOTES:**
- CONSTRUCT CONTROL JOINTS PER PLAN, DWG C2.0.
 - CONSTRUCT PADS WITH BROOMED FINISH AND 1 1/2-IN SURFACE EDGING.



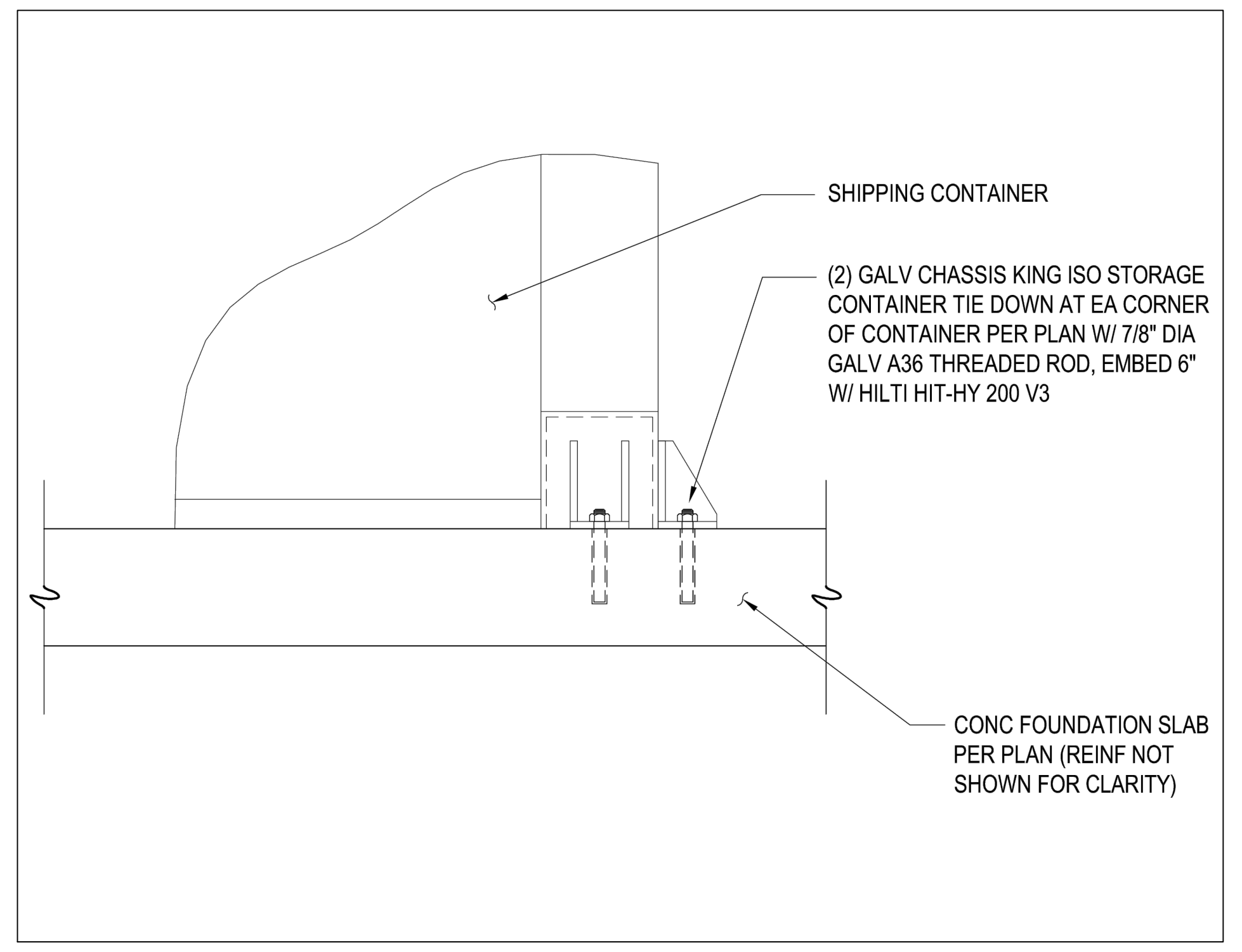
2
C2.2
Rolled Asphalt Curb Detail
N.T.S.



3
C2.3
Concrete Building Foundation Detail
Not to Scale



4
C2.3
Concrete Building Foundation Section
Not to Scale



5
C2.3
Typ Site Shipping Container FTG & Anchorage
Not to Scale



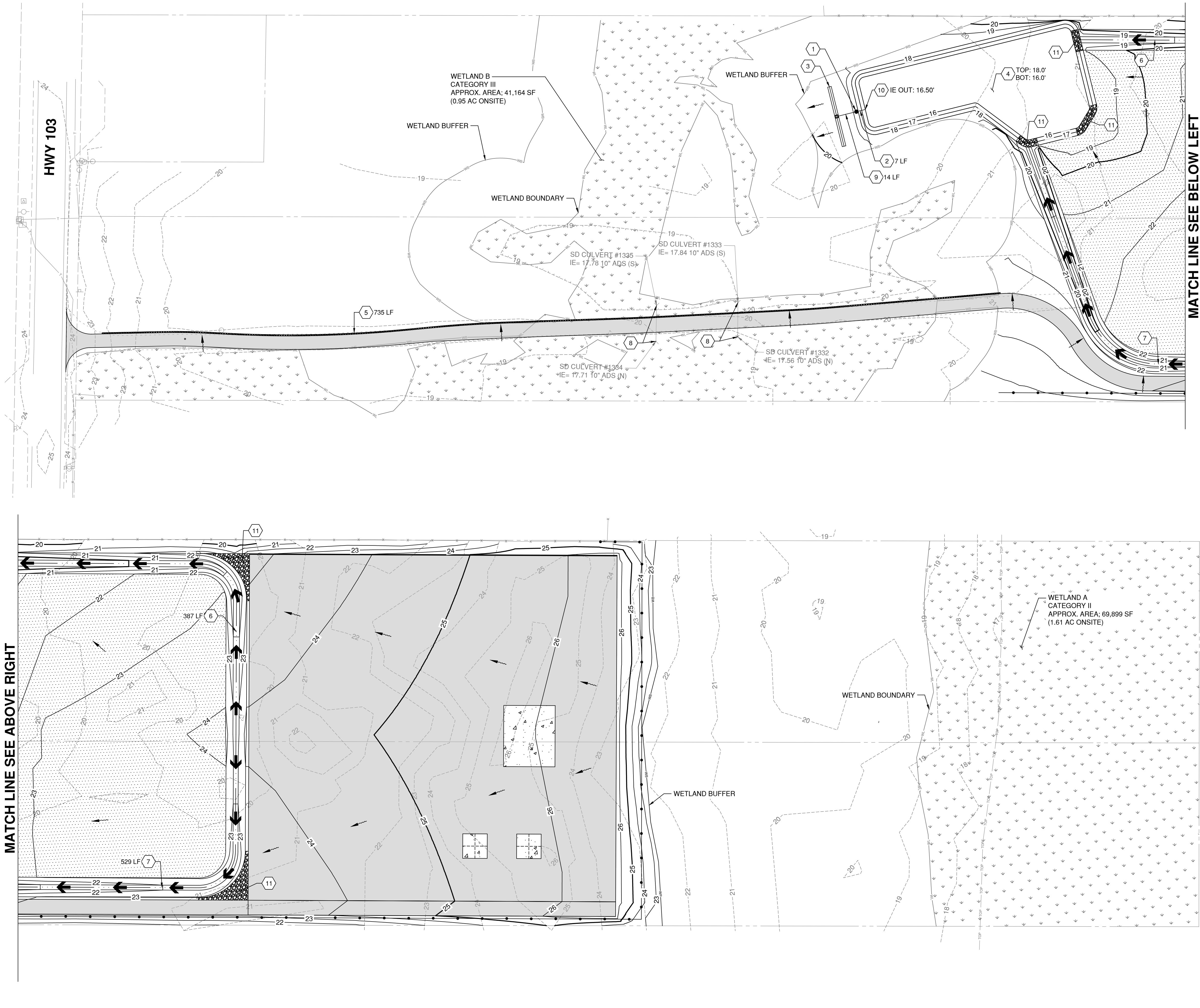
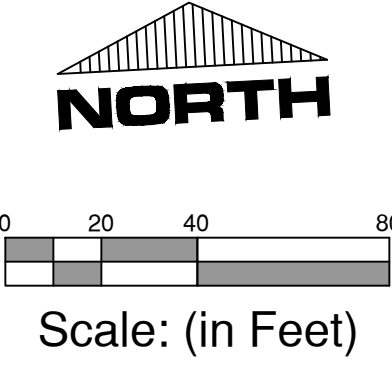
Pacific Co FD1 Site Development
Pacific County
Long Beach, Washington
Site & Grading Details

Datum: NAD83 / NAVD 88
Survey Book: 1831
Project Milestone: **Permit**
Date: **04/07/2023**

Designed by: C/JG
Checked by: T/JG
Approved by: C/JG

Project Number: 0788.0245
Drawing Number: C2.3
Sheet Number: 10 of 12

DRAWING: T:\PROJECTS\0788 MSC ENG PROJECT\0245 PACIFIC CO FD1 SITE DEVELOPMENT\CONTRACT DRAWINGS\07880245 STORM DRAINAGE PLAN.DWG. LAYOUT TAB: C3.0. PLOT DATE: 4/7/2023 2:31:04 PM. DRAWING SAVE DATE: 4/7/2023 2:23:32 PM. PLOTTED BY: HSSISSON
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- LEGEND:**
- EXISTING WETLAND
 - ASPHALT PAVEMENT, SEE TYPICAL SECTION, DWG C2.2
 - TOPSOIL AND SEEDING PER BMP T5.13 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
 - STORM DRAIN LINE
 - BIOFILTRATION SWALE LINE
 - STORM DRAIN FLOW CONTROL MANHOLE
 - STORM DRAIN CATCH BASIN
 - ROCK LINED OUTFALL PROTECTION
 - DRAINAGE FLOW ARROW

- # STORM DRAINAGE CONSTRUCTION NOTES:**
1. INSTALL STORM DRAIN FLOW CONTROL MANHOLE PER DTL 1, DWG C3.1
RIM = 20.00 +/-
IE IN = 16.50 12-INCH CPEP (E)
IE OUT = 16.50 12-INCH CPEP (W)
 2. INSTALL 12-INCH CPEP STORM DRAIN PIPE @ S=0.0
 3. CONSTRUCT FLOW DISPERSION TRENCH WITH CATCH BASIN TYPE 1, AND 6-INCH PERFORATED PVC PIPE, PER DTL, DWG C3.2
RIM = 19.50 +/-
IE = 16.43 6-INCH PERF PVC
 4. CONSTRUCT STORMWATER DETENTION POND PER DTL, DWG C3.1
 5. CONSTRUCT 1-FT GRAVEL FLOW SPREADER FOR DISPERSION SEE DTL, DWG C3.2
 6. CONSTRUCT 5-FT WIDE BIOFILTRATION SWALE PER DTL, DWG C3.1 AND C3.2
 7. CONSTRUCT 4-FT WIDE BIOFILTRATION SWALE PER DTL, DWG C3.1 AND C3.2
 8. CLEAN EXISTING CULVERT INLETS AND OUTLETS
 9. INSTALL 12-INCH CPEP STORM DRAIN PIPE @ S = 0.005 FT/FT MIN
 10. INSTALL DEBRIS BARRIER PER DTL, DWG C3.1
 11. INSTALL ROCK LINED OUTFALL PROTECTION, 1-FT DEEP MIN

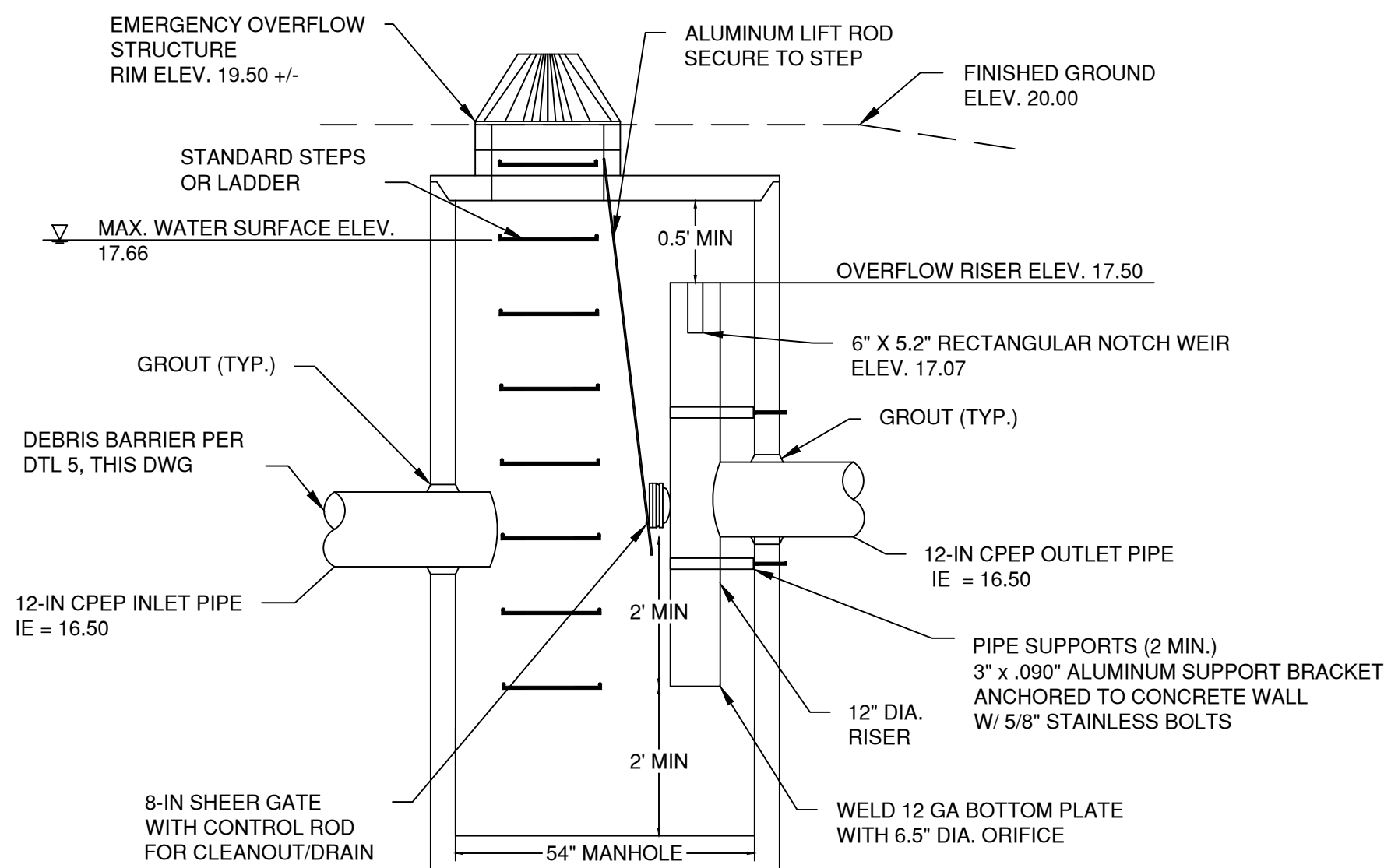
- GENERAL STORM NOTES:**
1. WITHIN ALL AREAS THAT HAVE BEEN SUBJECT TO CLEARING AND GRADING, ALL GRASS AND LANDSCAPED AREAS SHALL HAVE A MINIMUM 8-INCH SETTLED TOPSOIL LAYER PRIOR TO SEEDING AND PLANTING THAT MEETS THE CRITERIA PER BMP T5.13 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOL V.
 2. SEE DWG C2.1 FOR BIOFILTRATION SWALE PROFILES.
 3. ALL STORM PIPE SHALL BE CORRUGATED POLYETHYLENE DOUBLE WALL SMOOTHER INTERIOR STORM DRAIN PIPE ADS N12 OR EQUAL WITH SOIL TIGHT JOINTS.

**Know what's below.
Call 811 before you dig.**

CAUTION: LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

**Pacific Co FD1 Site Development
 Pacific County
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 Storm Drainage Plan**

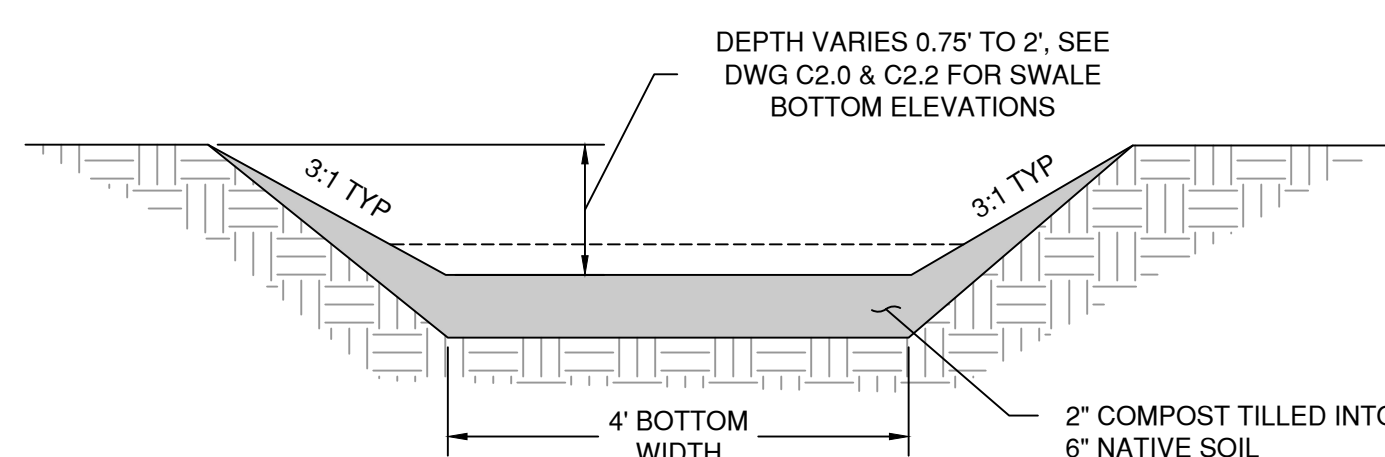
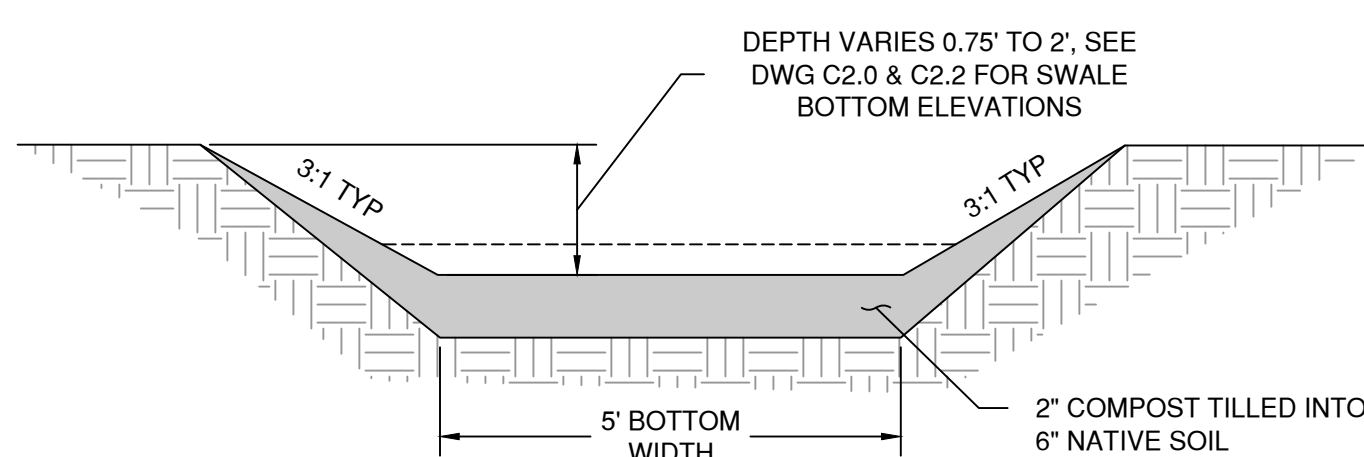
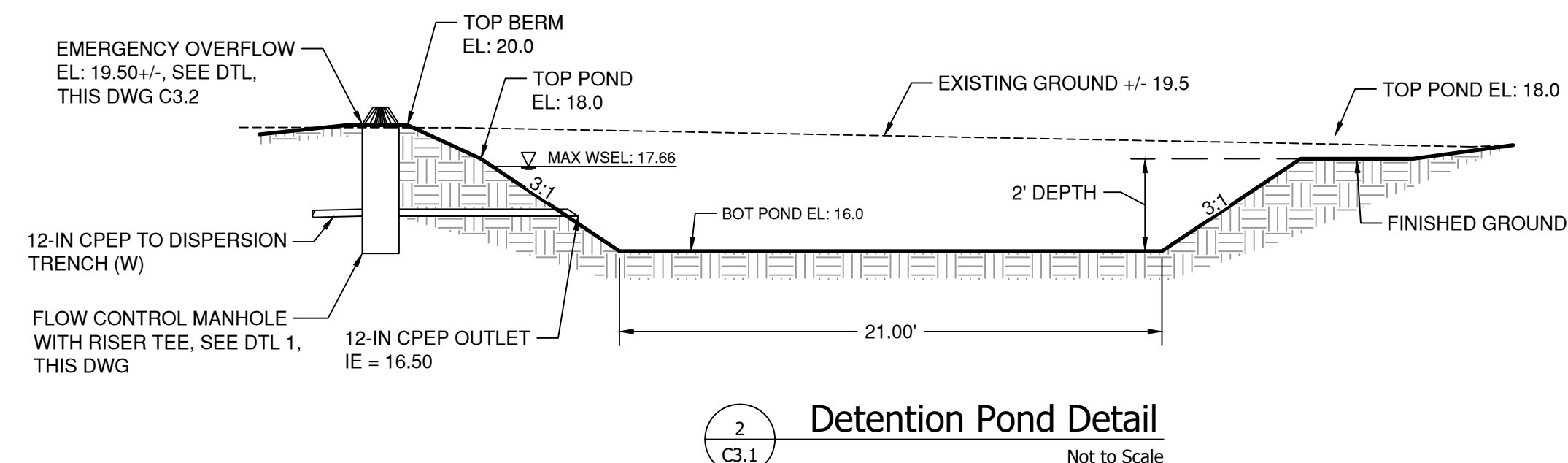
Datum: NAD83 / NAVD 88
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CONTROL STRUCTURE NOTES

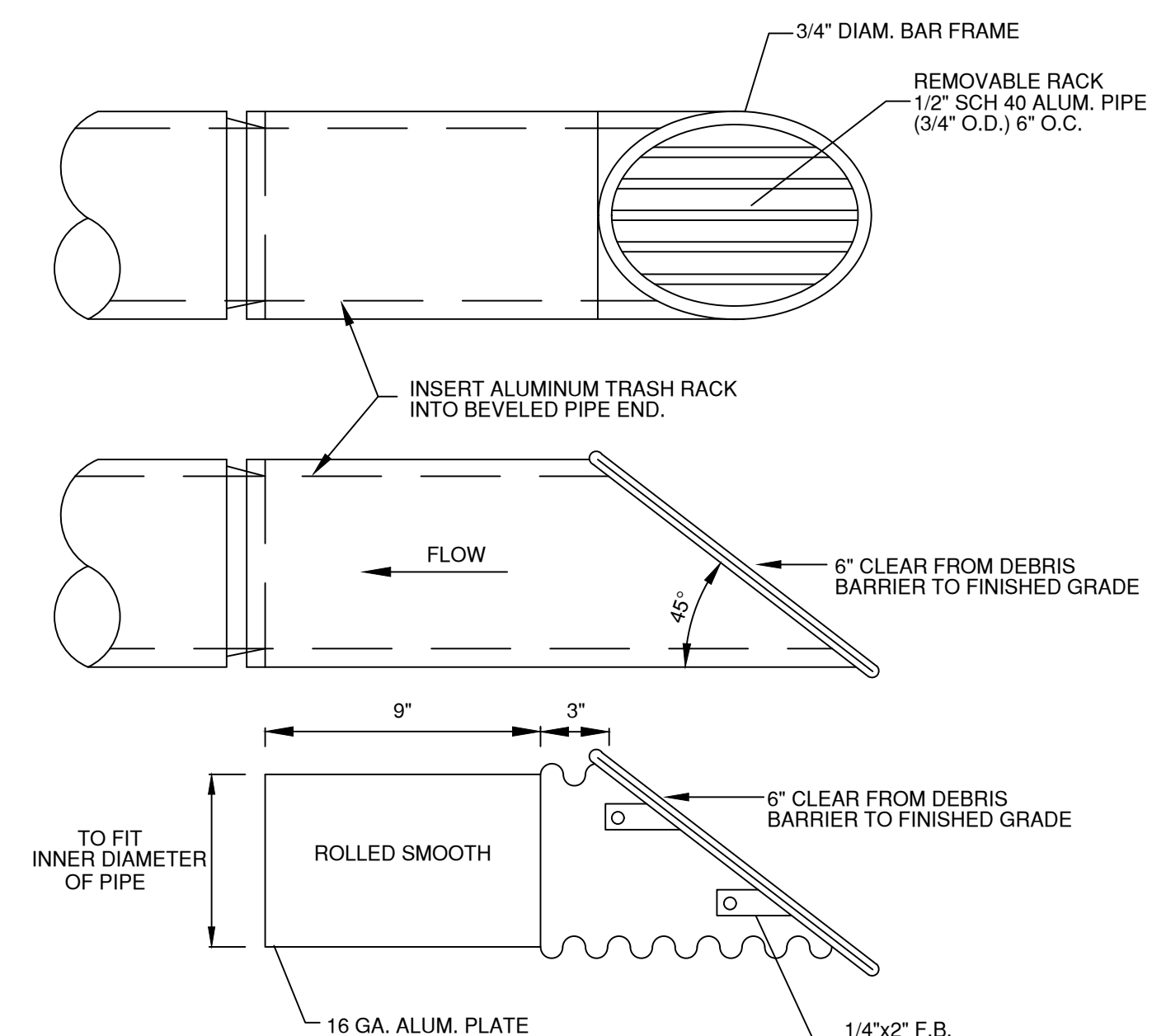
1. PIPE SIZES, INVERT ELEVATIONS, ORIFICE SIZES, OVERFLOW AND SLOPES PER PLANS.
2. OUTLETS CAPACITY: NOT LESS THAN COMBINED INLETS.
3. EXCEPT AS SHOWN OR NOTED, UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR 48" MANHOLE.
4. PIPE SUPPORTS AND RESTRICTOR SHALL BE OF SAME MATERIAL AND BE ANCHORED AT 3" MAXIMUM SPACING BY 5/8" DIAMETER STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED 2" IN WALL.
5. THE RESTRICTOR SHALL BE FABRICATED FROM .090" ALUMINUM, PVC, CPE, OR HDPE PIPE PER THESE ENGINEERING STANDARDS.
6. OUTLET SHALL BE CONNECTED TO CULVERT OR STORM PIPE WITH SUITABLE COUPLER OR GROUTED INTO THE BELL OF CONCRETE PIPE
7. FRAME AND LADDER OR STEPS OFFSET SO THAT CLIMB DOWN SPACE IS CLEAR OF RISER.

1
C3.1 Detention Pond Flow Control Structure Detail
Not to Scale



BIOFILTRATION SWALE NOTES:

1. THE CONTINUOUS INFLOW BIOFILTRATION SWALE SHALL BE IN COMPLIANCE WITH THE CRITERIA PER BMP T9.30 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
2. SEE WSDOT FOR GRASS SEED MIX
3. COMPOST MATERIAL SHALL MEET THE SPECIFICATIONS FOR COMPOST USED IN THE BIRETENTION SOIL PER BMP T7.30 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON



NOTES:

1. ALL STEEL PARTS MUST BE GALVANIZED & ASPHALT COATED (TREATMENT 1 OR BETTER). CONTRACTOR TO VERIFY DIMENSIONS.

Pacific Co FD1 Site Development
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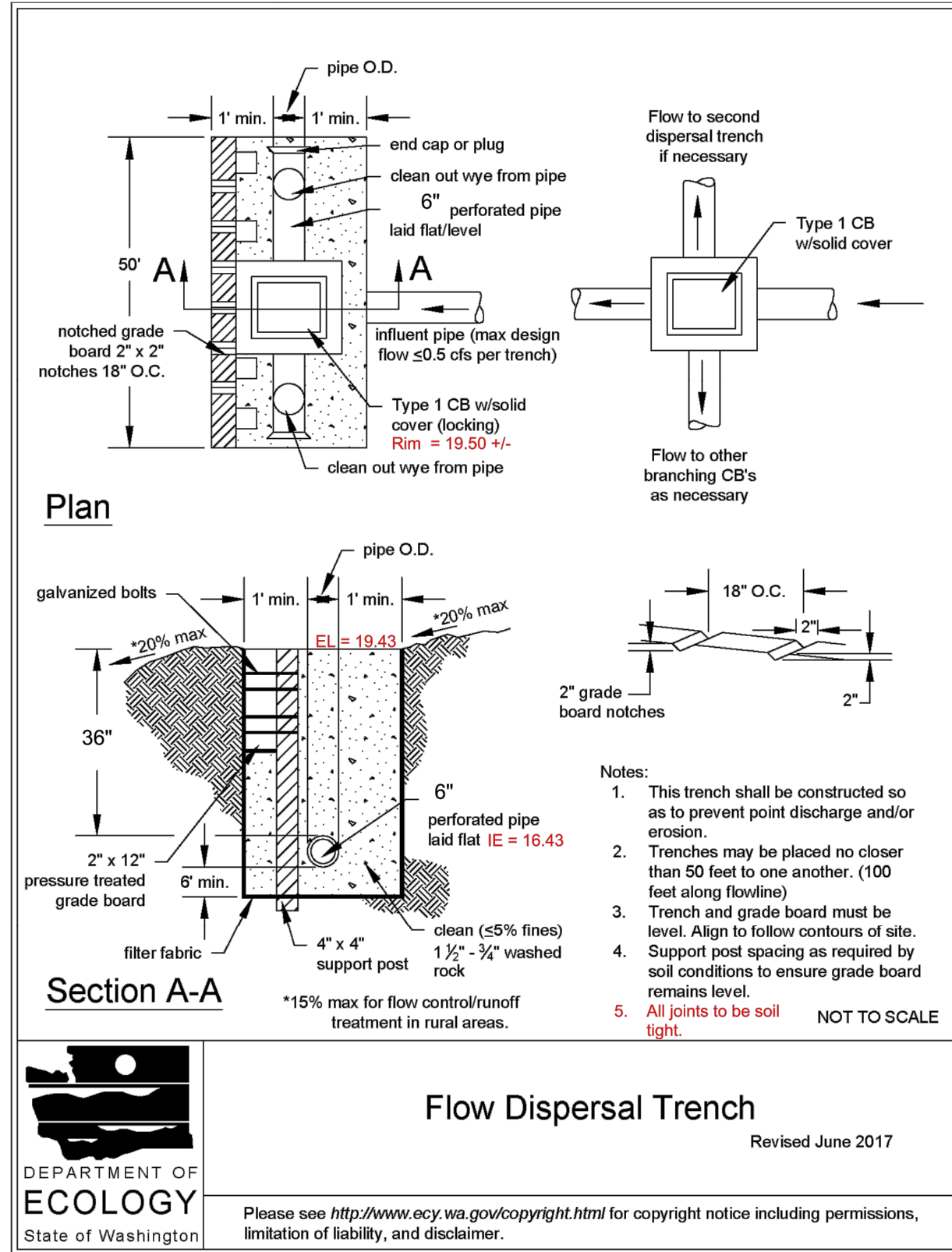
Project Number:
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Drawing Number:
C3.1

Sheet Number:
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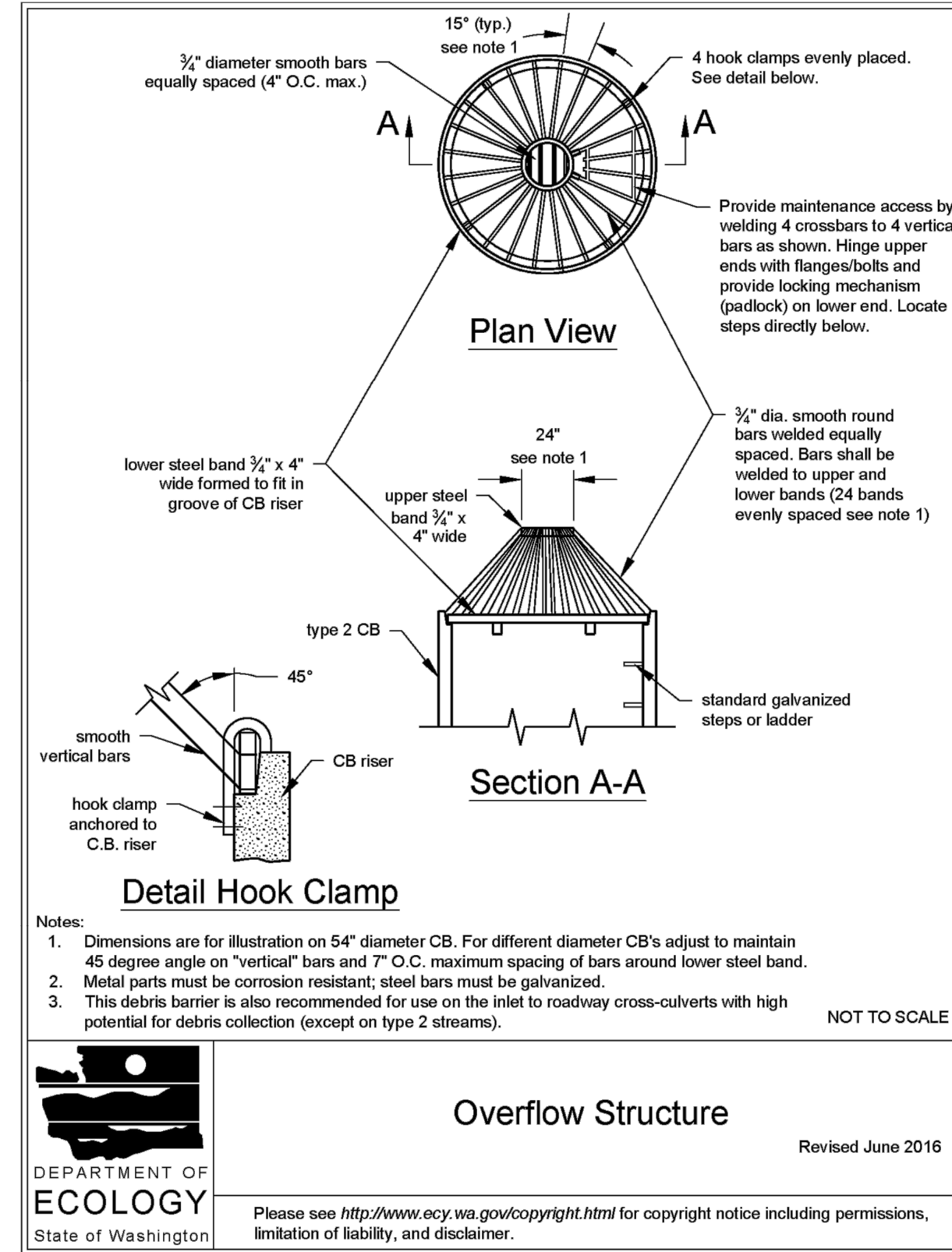
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Figure V-1.8: Flow Dispersal Trench



2019 Stormwater Management Manual for Western Washington
Volume V - Chapter 1 - Page 679

Figure V-12.11: Overflow Structure



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Volume V - Chapter 12 - Page 978



GIBBS & OLSON

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