

- Once known, include a list of all contractors that will engage in construction activities on site, and the areas of the site where the contractor(s) will engage in construction activities. Revise the list as appropriate until permit coverage is terminated (Section 4.4.c.i). In addition, include a list of all personnel (by name and position) that are responsible for the design, installation and maintenance of stormwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section 4.4.c.ii)
- Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)
- Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)
- Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)
- The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)
- The ESCP must be accurate and reflect site conditions. (Section 4.8)
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)
- Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)
- Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)
- Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)
- Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)
- Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)
- Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Sections 2.1.3)
- Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and stream banks. (Sections 2.1.1, and 2.2.16)
- Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)
- Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads. (Sections 2.2.20 and 2.2.21)
- Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)
- Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)
- Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities. (Section 2.2.7)
- When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)
- Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)
- Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)
- Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)
- Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Sections 2.2.15 and 2.2.3)
- Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)
- If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)
- Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)
- Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)
- Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)
- The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)
- If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Section 1.2.9)
- Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Section 2.2)
- As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)
- Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Section 2.1.5.c)
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)
- Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)
- The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19)
- Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar days. (Section 6.5.f.1)
- Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)
- Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained moved and disposed of properly, unless needed for long term use following termination of permit coverage. (Section 2.2.21)

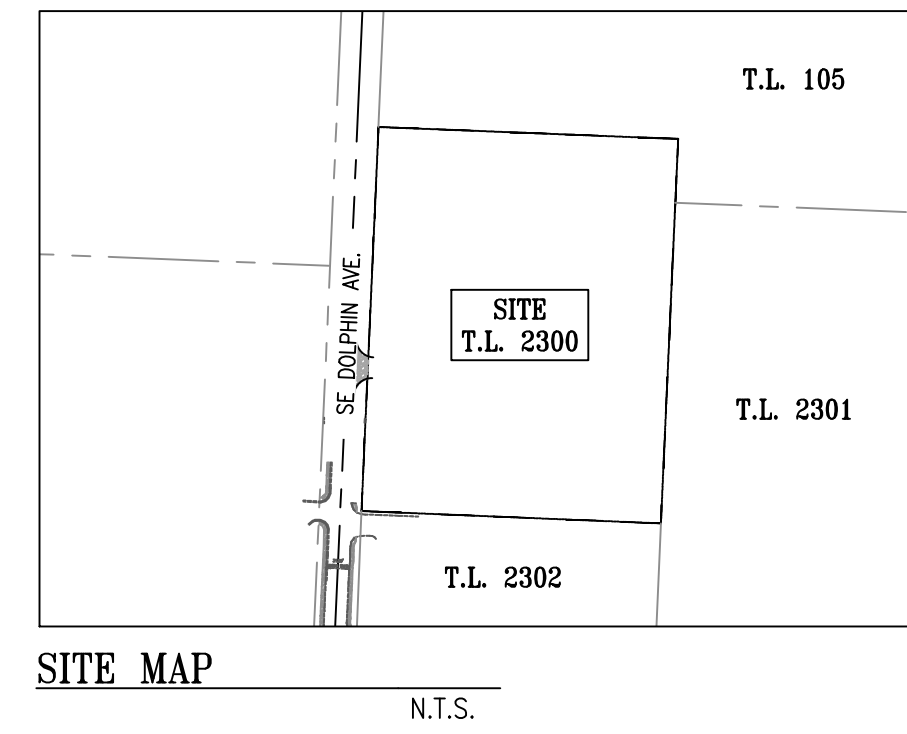
EROSION AND SEDIMENT CONTROL PLAN
FOR
PROJECT NAME
ADDRESS
NUMBER
AND OTHER RELEVANT
INFORMATION

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

DRAFT AN ESCP SHEET FOR EACH OF THESE STAGES, MORE IF NECESSARY DEPENDING ON THE PROJECT SIZE.

BMP MATRIX FOR CONSTRUCTION PHASE

Year	2021				
	Phase/BMP	CLEARING	MASS GRADING	UTILITY CONSTRUCTION	VERTICAL CONSTRUCTION
EROSION PREVENTION					
Ground Cover	X	X	X		
Plastic Sheeting	X	X	X		
Dust Control	X	X	X		
Temporary Stabilization (Straw Mulch/Hydroseed)		X	X	X	
Permanent Stabilization					X
Buffer Zone (from Ravine)	X	X	X	X	
SEDIMENT CONTROL					
Sediment Fence (Perimeter)	X				
Sediment Fence (Interior)	X				
Straw Wattles	X	X	X	X	
Inlet Protection	X	X	X	X	
Dewatering		X	X		
RUN OFF CONTROL					
Construction Entrance	X	X	X		
Existing Outlet Protection	X	X	X	X	
New Outlet Protection		X	X	X	
Existing Curb Inlet Check Dams	X	X	X	X	
POLLUTION PREVENTION					
Harzard Waste Management				X	
Spill Kit Onsite				X	
Concrete Washout Area	X	X	X	X	



OWNER / DEVELOPER _____ SURVEYOR _____ SITE CONTRACTOR _____

FILL OUT THESE FOR EACH INDIVIDUAL OR COMPANY.

DESIGN ENGINEER _____ GEOTECHNICAL ENGINEER _____ *SITE SUBCONTRACTORS TO BE DETERMINED AT A LATER DATE

CESCL: _____ BMP INSTALLER/MAINTAINER: _____ ESCP PREPARER: _____

ADD CERT #- EXPIRATION DATE. INFORM DEQ IF A NEW CERTIFIED INSPECTOR IS SELECTED.

RAIN GAUGE:
ASTORIA REGIONAL AIRPORT
HYPERLINK: <https://w1.weather.gov/data/obhistory/KAST.html>

SITE INFORMATION:

- TYPE OF DEVELOPMENT: PRIVATE COMMERCIAL RESOURCE CENTER
- CONSTRUCTION ACTIVITY WILL CONSIST OF:
 - CURB, ASPHALT PAVING, AND SIDEWALK CONSTRUCTION
 - WASTEWATER SYSTEM COSTRUCTION
 - STORMWATER DRAINAGE SYSTEM:
 - STORMWATER PIPING
 - STORMWATER TREATMENT DETENTION POND
 - DOMESTIC WATER SYSTEM CONSTRUCTION
 - FRANCHISE UTILITY CONSTRUCTION
 - OFFSITE PUBLIC ROADWAY IMPROVEMENTS (SEE EC-4.0)
- PROJECT TIMELINE:
 - BEGINNING DATE: FEBRUARY 2021
 - COMPLETION DATE: NOVEMBER 2021
- PROJECT SITE AREAS:
 - TOTAL AREA: 5.32 AC (231,847 SF)
 - DISTRUBED AREA: 4.48 AC (195,250 SF)
 - PERCENT OF SITE DISTURBED: 84%
- OFFSITE PUBLIC IMPROVEMENT AREA:
 - IMPROVEMENT LENGTH: 550 LF (0.10 MILE)
- ONSITE SOIL TYPES:
 - WALLUSKI MEDIAL SILT LOAM-HYDROLOGIC GROUP C-100%
- CUT AND FILL DATA:
 - CUT: 9,155 CU. YD.
 - FILL (1.20 FACTOR): 4500 CU. YD.
 - NET ADJUSTED: 4,655 CU. YD. (CUT)

BUSINESS DAYS/HOURS:

MONDAY	7:00-5:00
TUESDAY	7:00-5:00
WEDNESDAY	7:00-5:00
THURSDAY	7:00-5:00
FRIDAY	7:00-5:00
SATURDAY	-NO WORK-
SUNDAY	-NO WORK-

CONSIDER THE SOIL TYPE AND TOPOGRAPHY WHEN SELECTING BMPS. SEDIMENT AND EROSION CONTROLS ARE NOT ONE SIZE FITS ALL.

SHEET INDEX:

EC-1.0	COVER SHEET
EC-2.0	ESCP-EXISTING CONDITIONS
EC-3.0	ESCP-DEMO, CLEARING, GRADING, EXCAVATING, AND LAND DEVELOPMENT PHASE
EC-4.0	ESCP- STREET & UTILITY PHASE
EC-5.0	ESCP- OFFSITE SE DOLPHIN AVENUE
EC-6.0	ESCP- VERTICAL CONSTRUCTION PHASE
EC-7.0	ESCP- FINAL LANDSCAPING AND STABILIZATION PHASE
EC-8.0	BMP DETAILS

LEGEND

- BOUNDARY LINE
- - - ADJACENT LOT LINE
- - - EXISTING 1' CONTOUR LINE
- W-W-W-W-W- W EXISTING WATER METER AND PIPE
- ⊙ EXISTING FIRE HYDRANT
- ⊗ EXISTING WATER VALVE
- ST (ST) EXISTING STORM DRAINAGE SYSTEM
- GAS - GAS - EXISTING GAS LINE
- EXISTING CATCH BASIN
- () EXISTING STORMWATER CULVERT
- WW (WW) EXISTING WASTEWATER SYSTEM
- E - EXISTING OVERHEAD ELECTRIC
- T - EXISTING TELECOMMUNICATION LINE
- ⊙ EXISTING STREET LIGHT
- ⊠ EXISTING ELECTRIC TRANSFORMER
- EXISTING UTILITY POLE
- EXISTING GUY ANCHOR
- x --- LIMITS OF DISTURBANCE
- x - x - SEDIMENT FENCING
- INLET PROTECTION
- DRAINAGE FLOW ARROW

Put Architect
Company name
and information
here on every
sheet
submitted.

Put Professional
Engineer stamp
here on every
sheet
submitted.

CONSULTANT:

Put Consultant
information here on
every sheet submitted.

PROJECT NUMBER: 218113

Project information here on every sheet submitted

KEY PLAN:



SHEET TITLE:

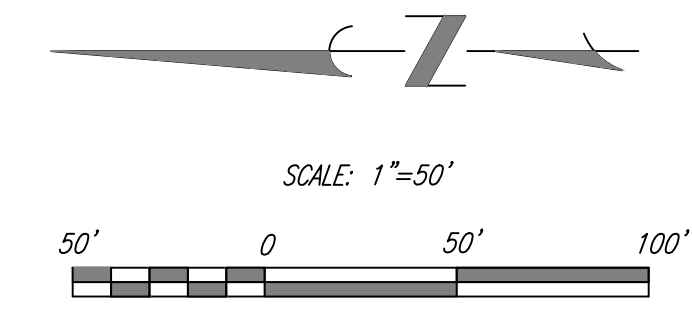
ESCP COVER SHEET

DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20

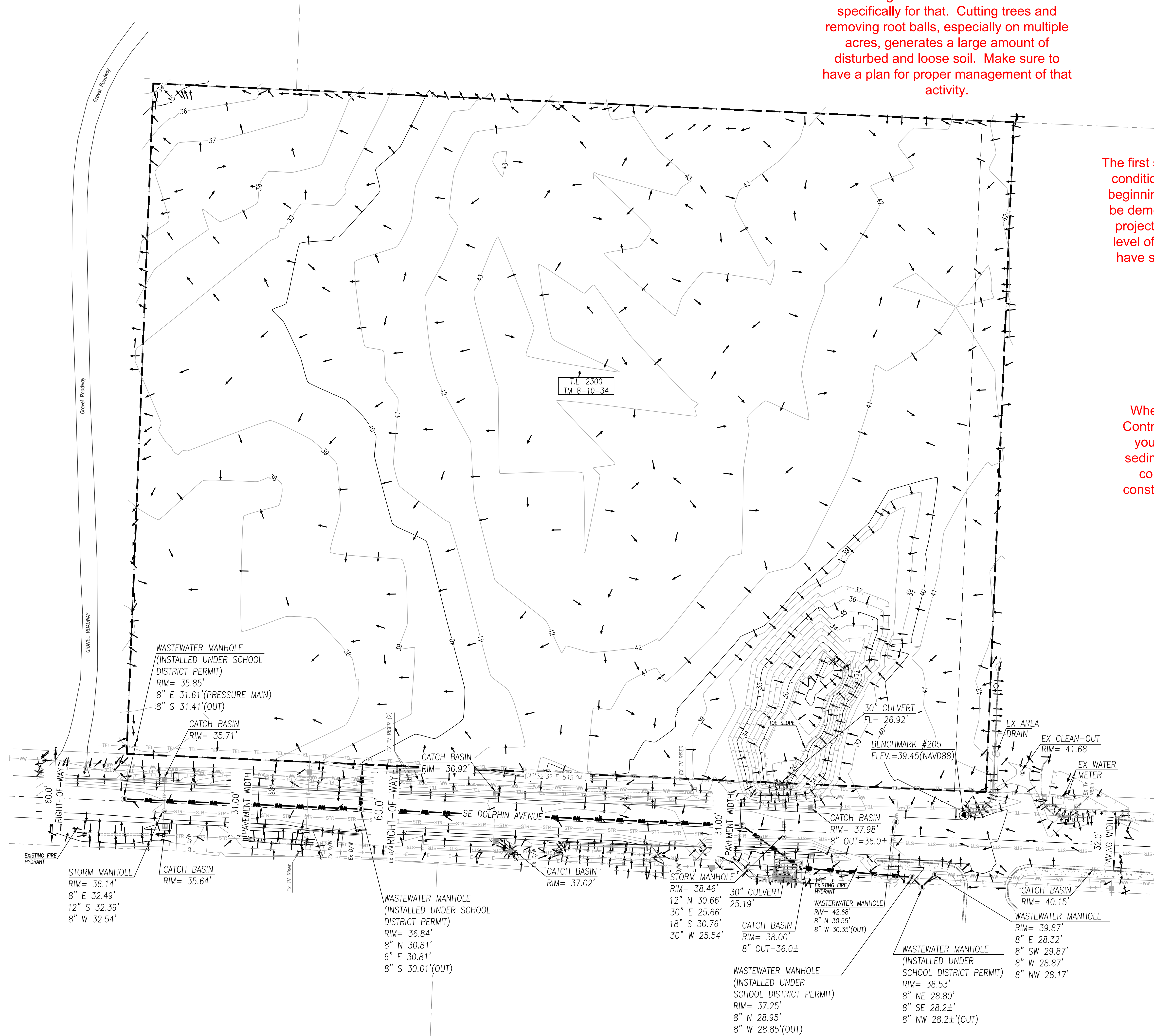
SHEET:
EC-1.0
100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020

Removing a lot of trees? Draft a sheet specifically for that. Cutting trees and removing root balls, especially on multiple acres, generates a large amount of disturbed and loose soil. Make sure to have a plan for proper management of that activity.



The first sheet should communicate the existing conditions - how is stormwater flowing at the beginning of the project? What structures will be demolished? The beginning stages of the project may not involve grading, but have a level of ground disturbance and staging that have specific erosion and sediment control needs.

When drafting your Erosion and Sediment Control Plan, consider the different stages of your project and the specific erosion and sediment control needs of each stage. Also consider your audience: make sure the construction crews can read and understand the plans.

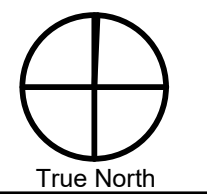


ESCP PREPARER:

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

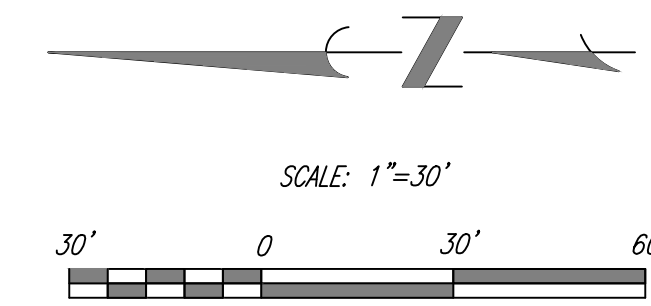


SHEET TITLE:

**ESCP
EXISTING
CONDITIONS**

DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20



OFFSITE PHASE INFORMATION:

1. PHASE SCHEDULE:
 START: JULY 2021
 FINISH: AUGUST 2021

2. LINEAR FOOTAGE OF STREET IMPROVEMENT: 550 LF

OFFSITE PHASE NOTES:

1. HATCHED AREA SHOWN IS AREA THAT WAS DISTURBED BY CONSTRUCTION ACTIVITY DURING THE CONSTRUCTION OF THE CONCRETE HEADWALL (2008) AS SHOWN ON PLAN. NO DISTURBANCE SHALL TAKE PLACE OUTSIDE OF SEDIMENT FENCING CONGRUENT WITH HEADWALL AS SHOWN ON PLAN.

2. CONCRETE WASHOUT FOR ALL CONCRETE WORK WITHIN SE DOLPHIN AVENUE IS ONSITE AS SHOWN ON SHEET EC-3.0.

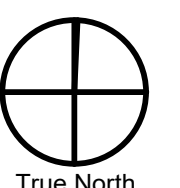
3. CATCH BASIN FILTER INSERTS TO REMAIN UNTIL THE COMPLETION OF THE OFFSITE PHASE.

IF SURFACE WATERS ARE RETAINED ON-SITE, THE NATURAL BUFFER IS MEASURED FROM THE EDGE OF THE WATERBODY TOWARD THE UPLAND. IF LESS THAN 50' OF THE NATURAL BUFFER IS MAINTAINED, BE SURE TO PROVIDE ADDITIONAL SEDIMENT AND EROSION CONTROLS AND THE RATIONALE FOR CHOOSING THE SELECTED BMP(S).

CONSULTANT:

PROJECT NUMBER: 218113

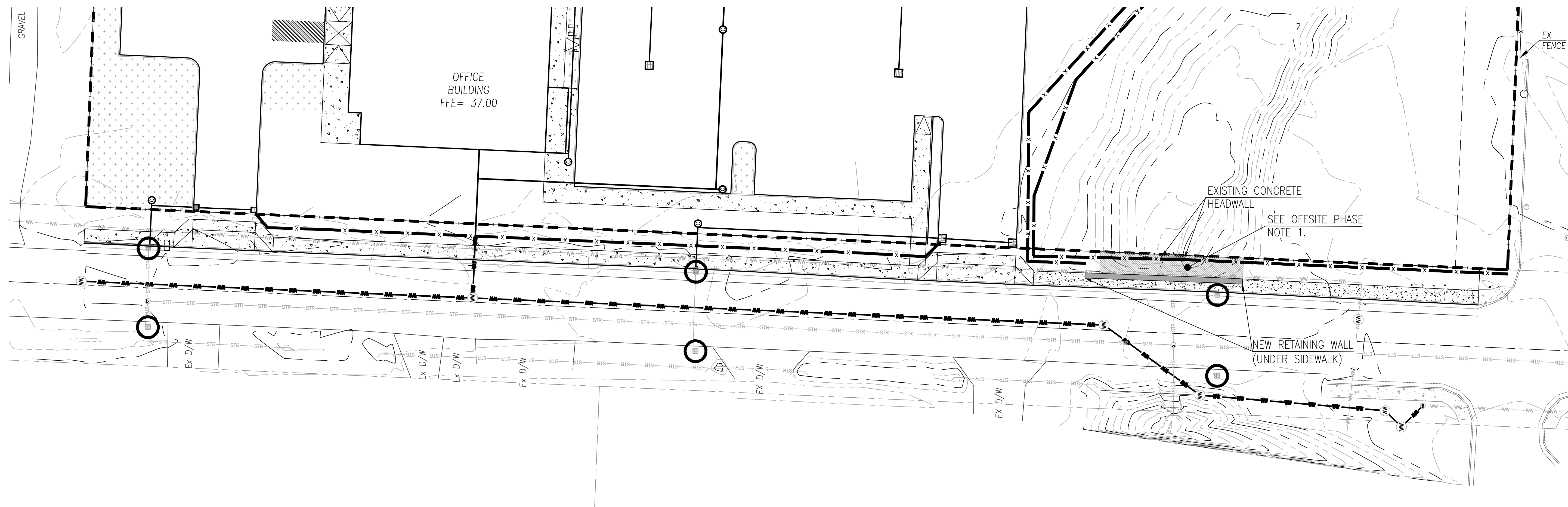
KEY PLAN:

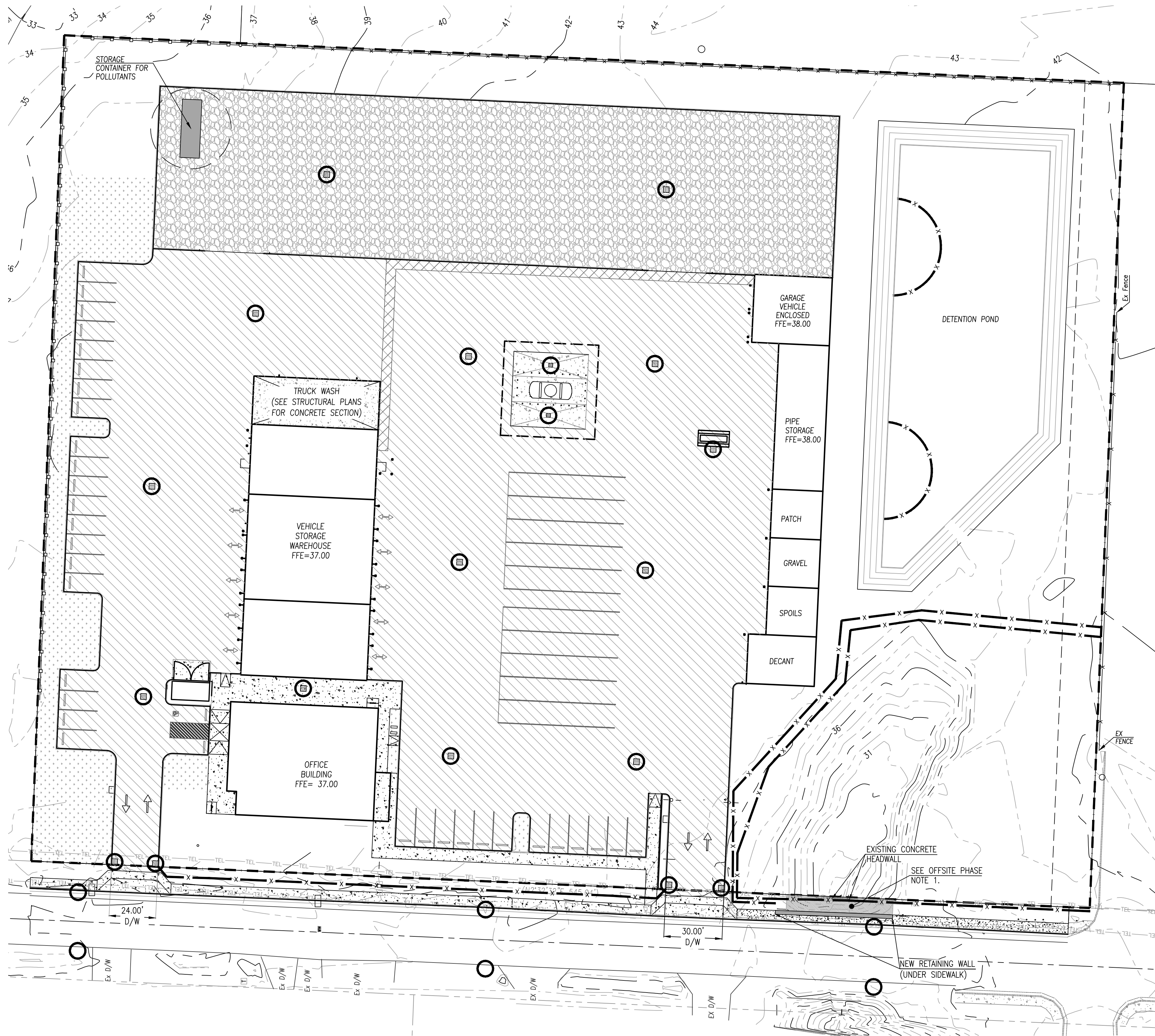
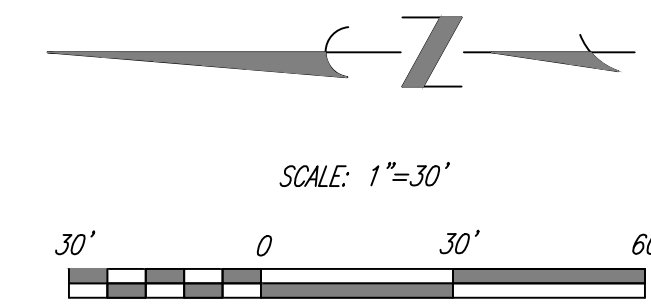


SHEET TITLE:
**ESCP
 OFFISTE
 SE MAIN AVE.**

DRAWN BY: ACH
 1 PLAN CHECK RESPONSE 12-23-20

SHEET:
EC-5.0
 100% DESIGN DEVELOPMENT
 SEPTEMBER 28TH, 2020





VERTICAL CONSTRUCTION PHASE INFORMATION:

1. PHASE SCHEDULE:
 START: APRIL 2021
 FINISH: NOVEMBER 2021

VERTICAL CONSTRUCTION PHASE NOTES:

1. ALL CONSTRUCTION MATERIALS THAT COULD LEAD TO POLLUTION IF SPILLED NOT IN IMMEDIATE USE SHALL BE STORED IN A STORAGE BOX AT THE NORTH EAST OF THE SITE (AS SHOWN) TO PREVENT SPILLS AND EXPOSURE TO WET WEATHER.
2. FOR SPILL PREVENTION SPILL KITS AND OTHER SPILL CONTAINMENT DEVICES (I.E. WATTLES, ABSORBENT SOCKS/BOOMS, ORGANIC OIL ABSORBENT AGENT, ETC.) SHALL BE KEPT ONSITE WITHIN THE STORAGE CONTAINER MENTIONED ABOVE THROUGH THE COMPLETION OF THE PROJECT.

Continue to be mindful of data crowding throughout the plan. Only provide information necessary to the specific stage.

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

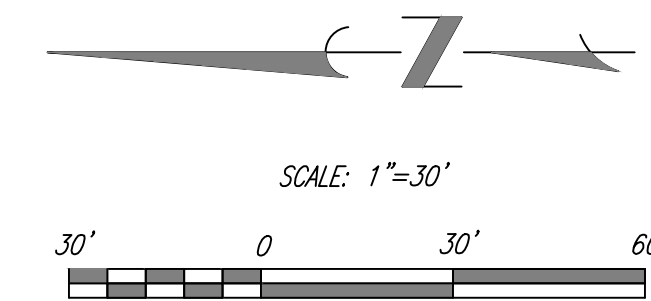


SHEET TITLE:

**ESCP
 VERTICAL
 CONSTRUCTION
 PLAN**

DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20



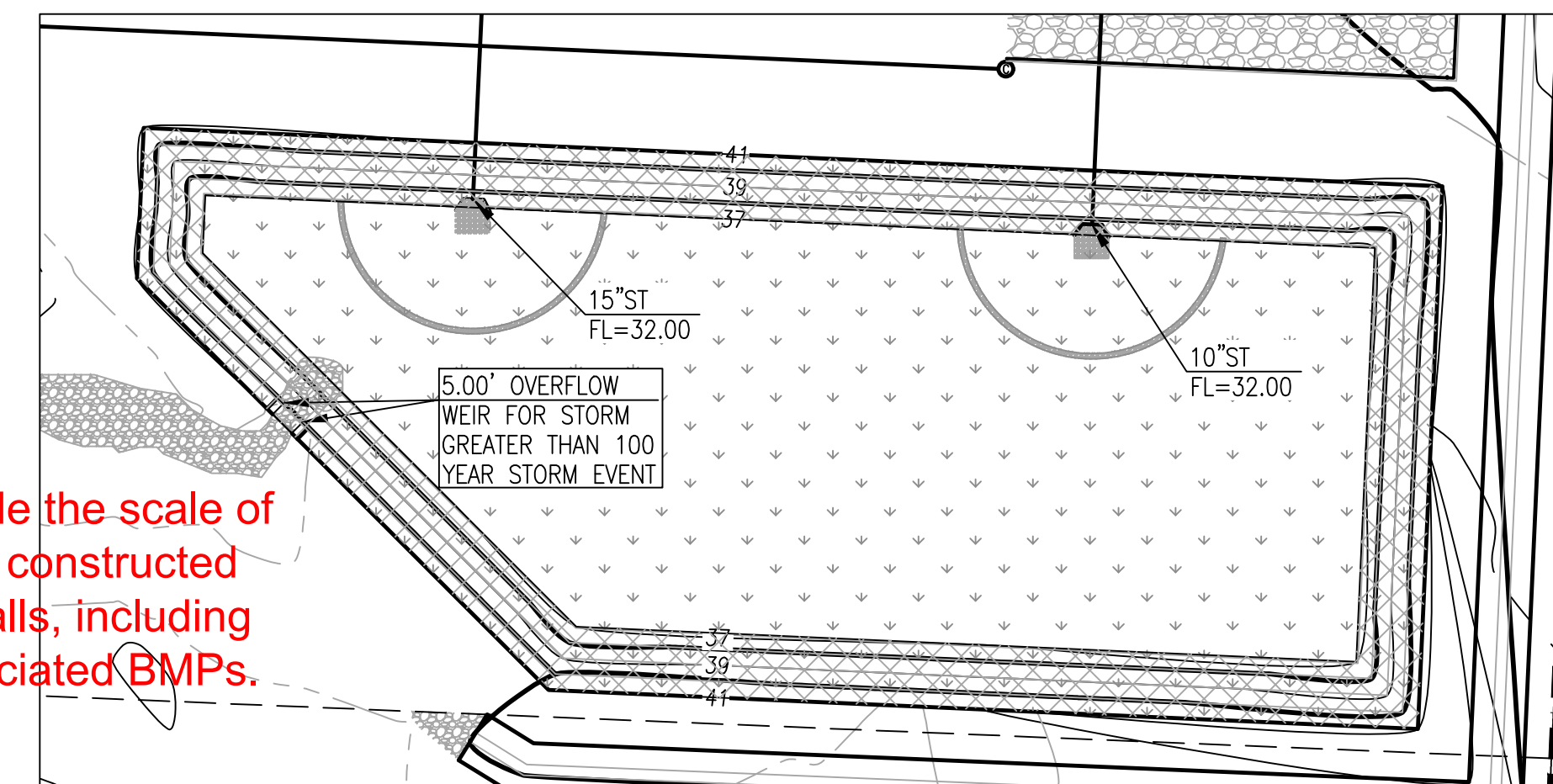
FINAL STABILIZATION PHASE INFORMATION:
 1. PHASE SCHEDULE:
 START: JULY 2021
 FINISH: AUGUST 2021

FINAL STABILIZATION PHASE NOTES:
 1. ALL PERIMETER SEDIMENT FENCING AND CATCH BASIN FILTER INSERTS TO BE REMOVED UPON COMPLETION OF THIS PHASE.

PLANTINGS LISTS

DETENTION POND

PLANTING ZONE	HATCH/CODE	HYDROSEED MIX	COMMON NAME	QUANTITY	COMMENTS	JUTE MAT*
100 PERCENT COVERAGE	[Hatch Pattern]	1/3 Perennial Rye, 1/3 Patriot II Perennial Rye and 1/3 Evening Shade Perennial Rye.	N/A	8,000 SF	SEED MIX AT MANUFACTURES HIGH RATE	[Hatch Pattern]



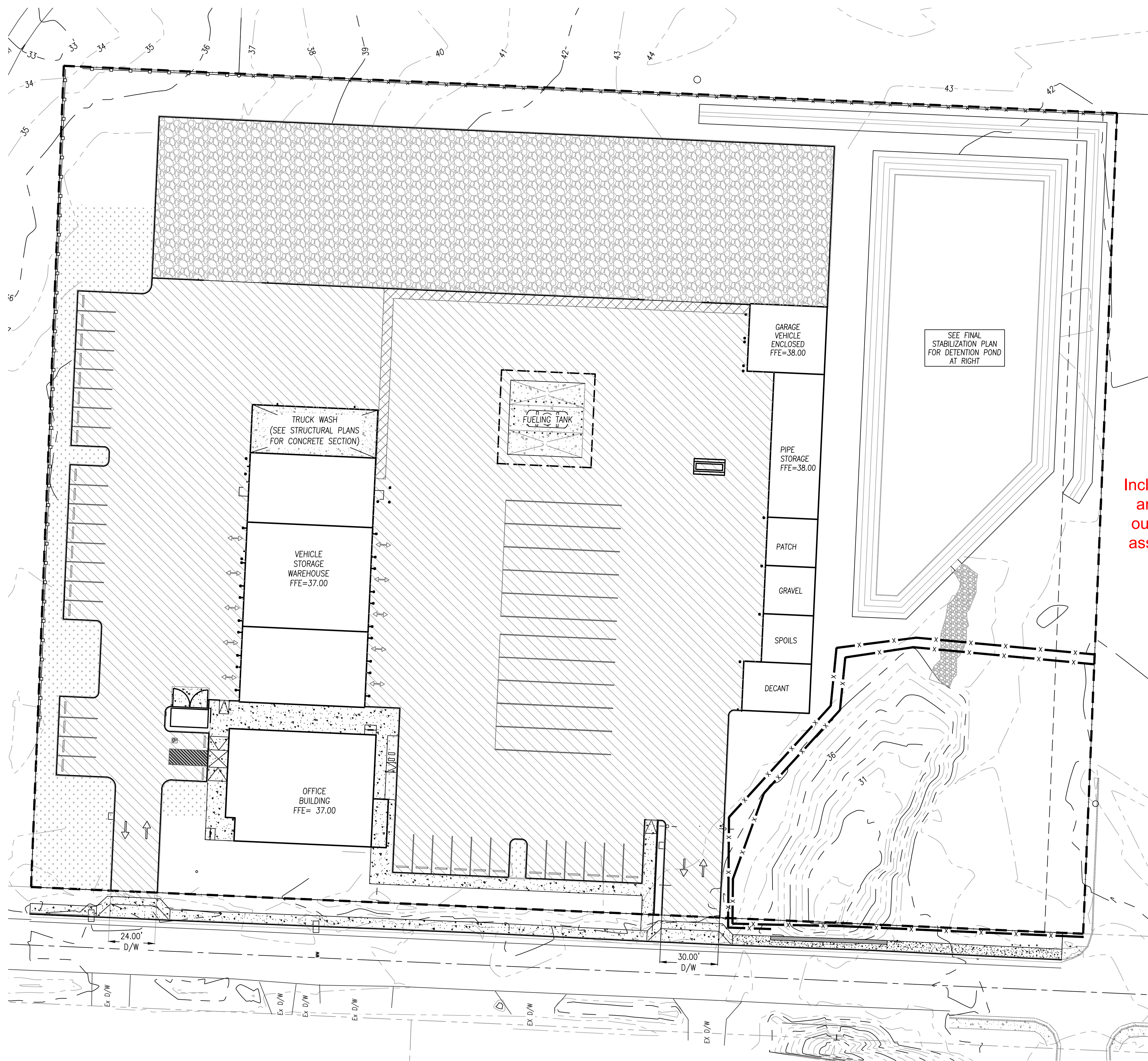
NOTES:
 1. DETENTION POND TO HAVE 12" OF PLANTING MEDIA
 2. SEE LANDSCAPE PLAN FOR PLANTING INFORMATION PREPARED BY GREENWORKS.
 3. ROCK SPLASH PADS SHALL BE CLASS-50 RIP-RAP.

DETENTION POND STABILIZATION
 *1. INSTALL JUTE MATTING PER OREGON STD. DWG RD1055 SLOPE AND CHANNEL MATTING AS PRESCRIBED FOR TEMPORARY SOIL STABILIZATION DURING ESTABLISHMENT IF CONSTRUCTION TAKES PLACE DURING WET WAETHER SEASON (MAY 1 TO OCTOBER 15).

Include the scale of any constructed outfalls, including associated BMPs.

Onsite detention is a great BMP for stormwater management/treatment. Remember to stabilize the infrastructure prior to use so it does not become a sediment source itself. Consider long term functionality impacts if the feature will be used for post-construction stormwater management.

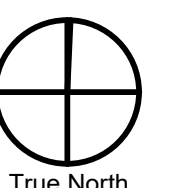
Note: There are no defined wet/dry seasons or dates in the 1200-C permit, or allowance for the assumption of dry conditions. The site is expected to manage stormwater any time of year.



CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

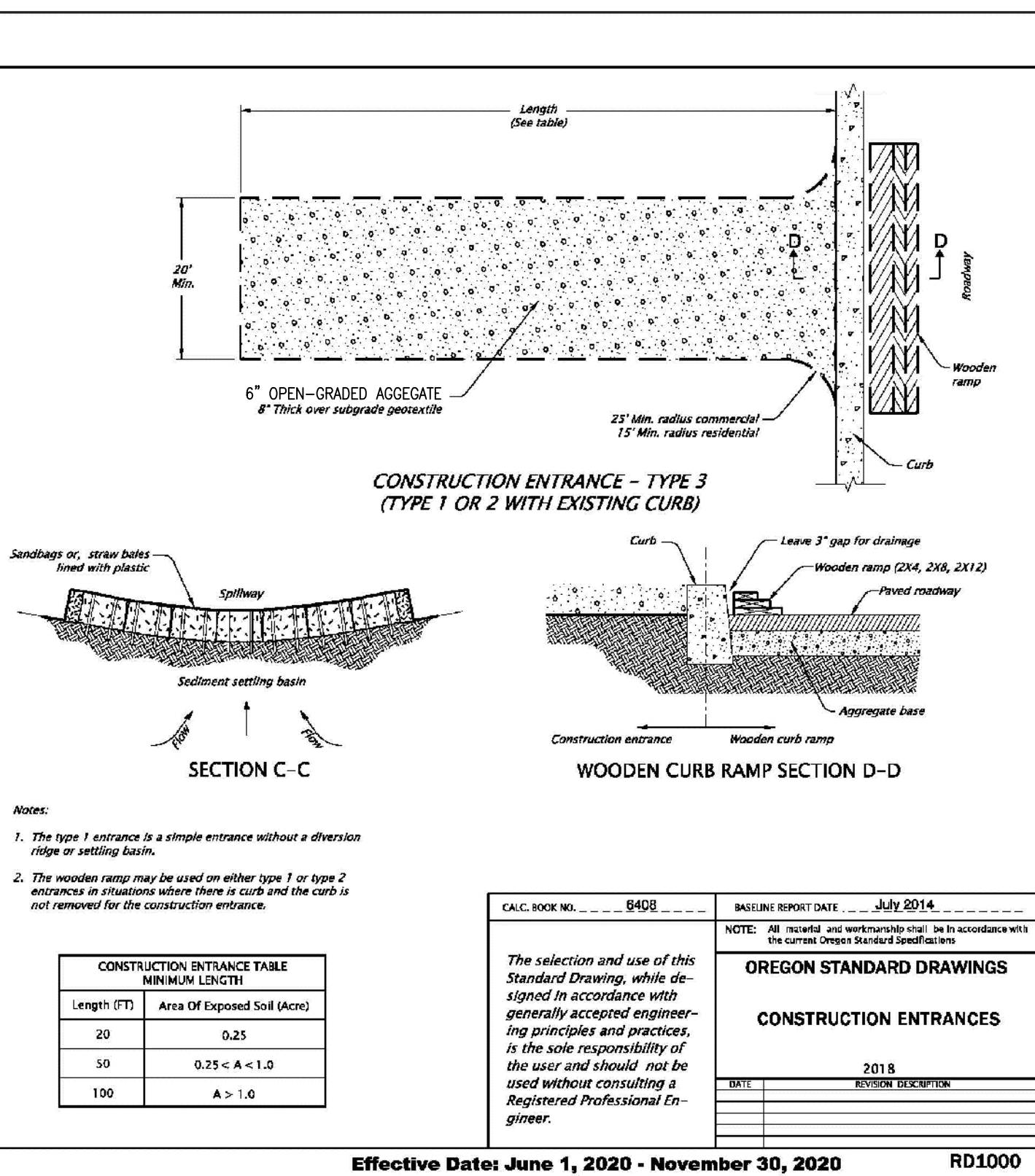
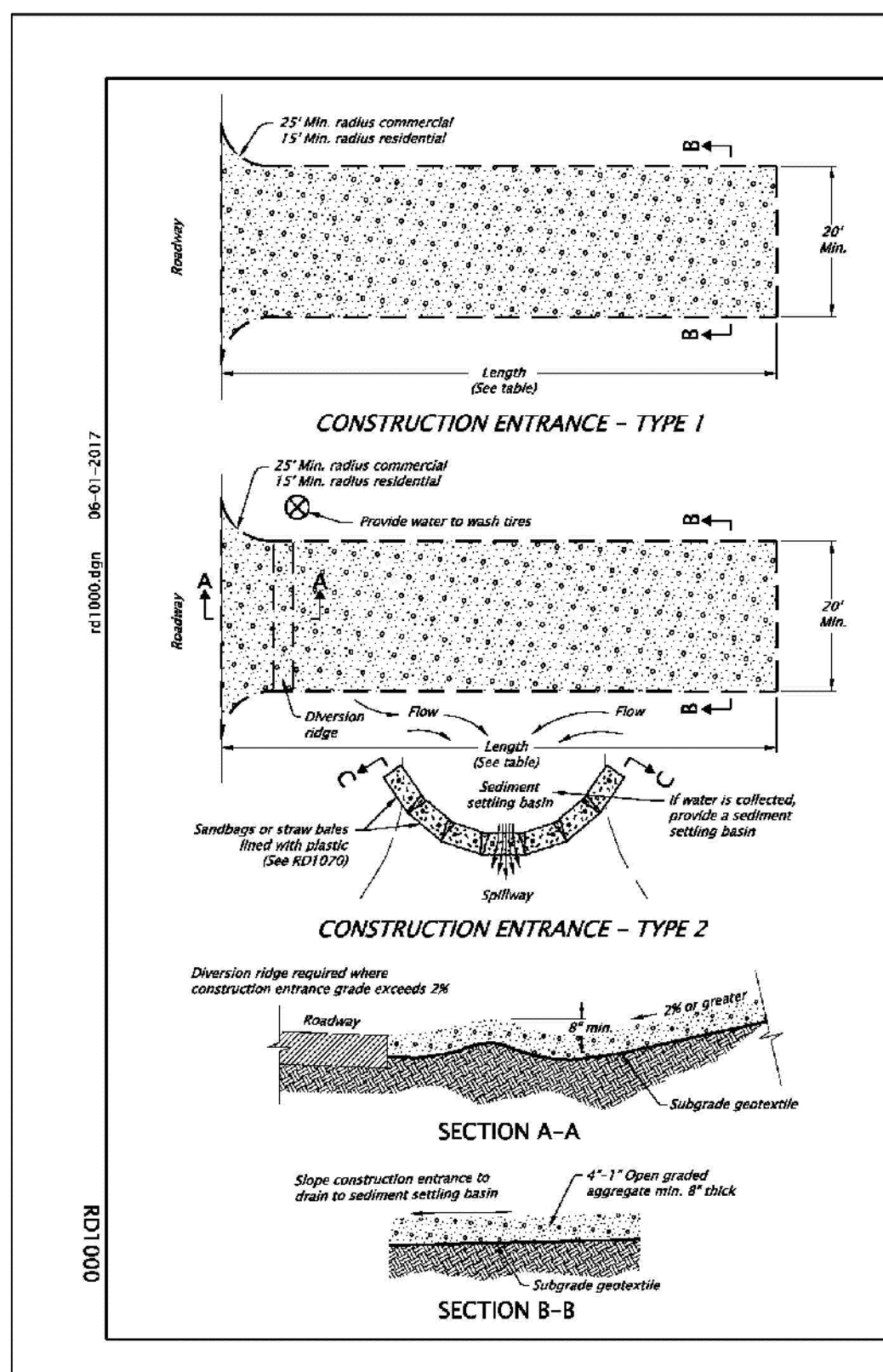
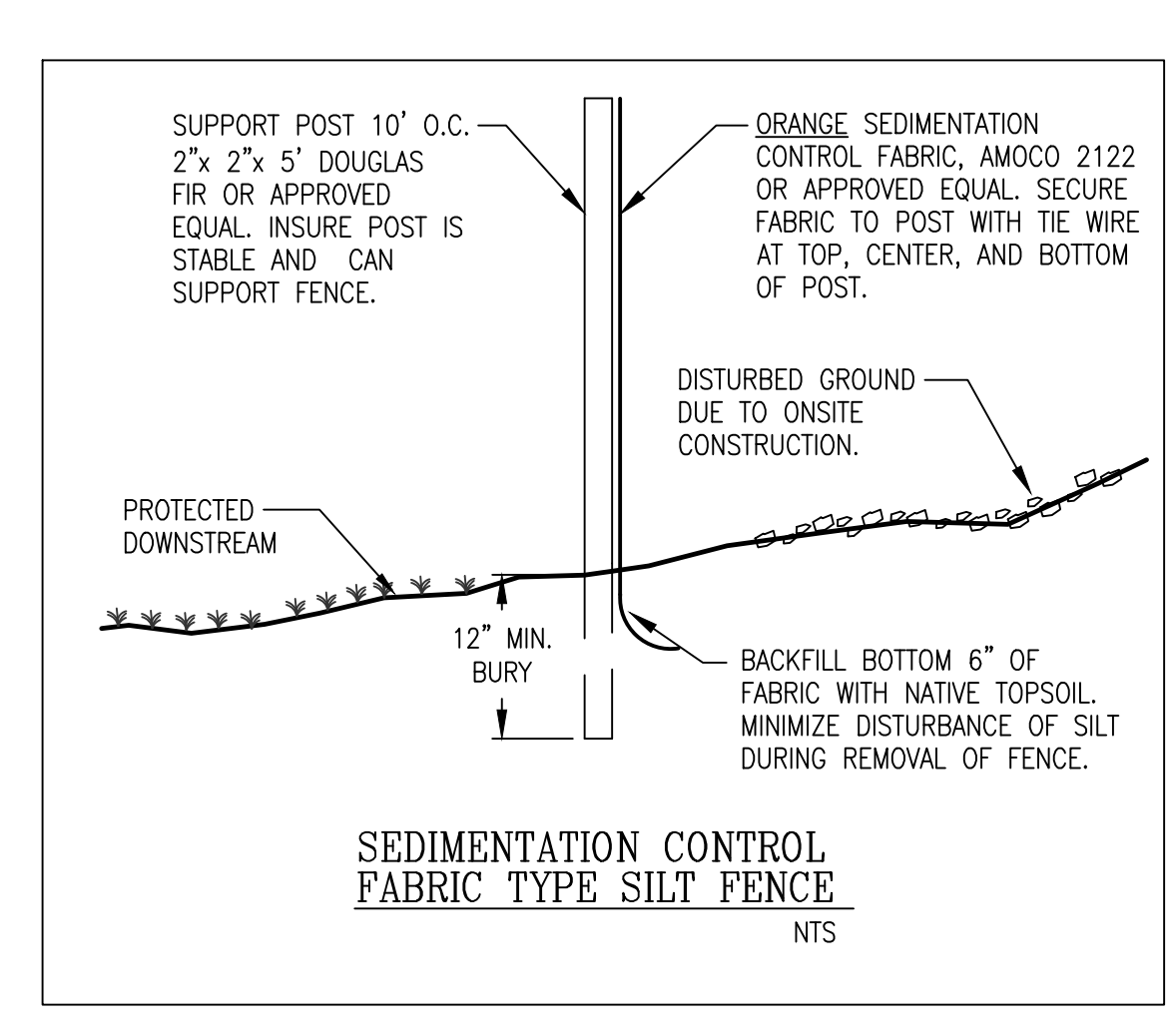
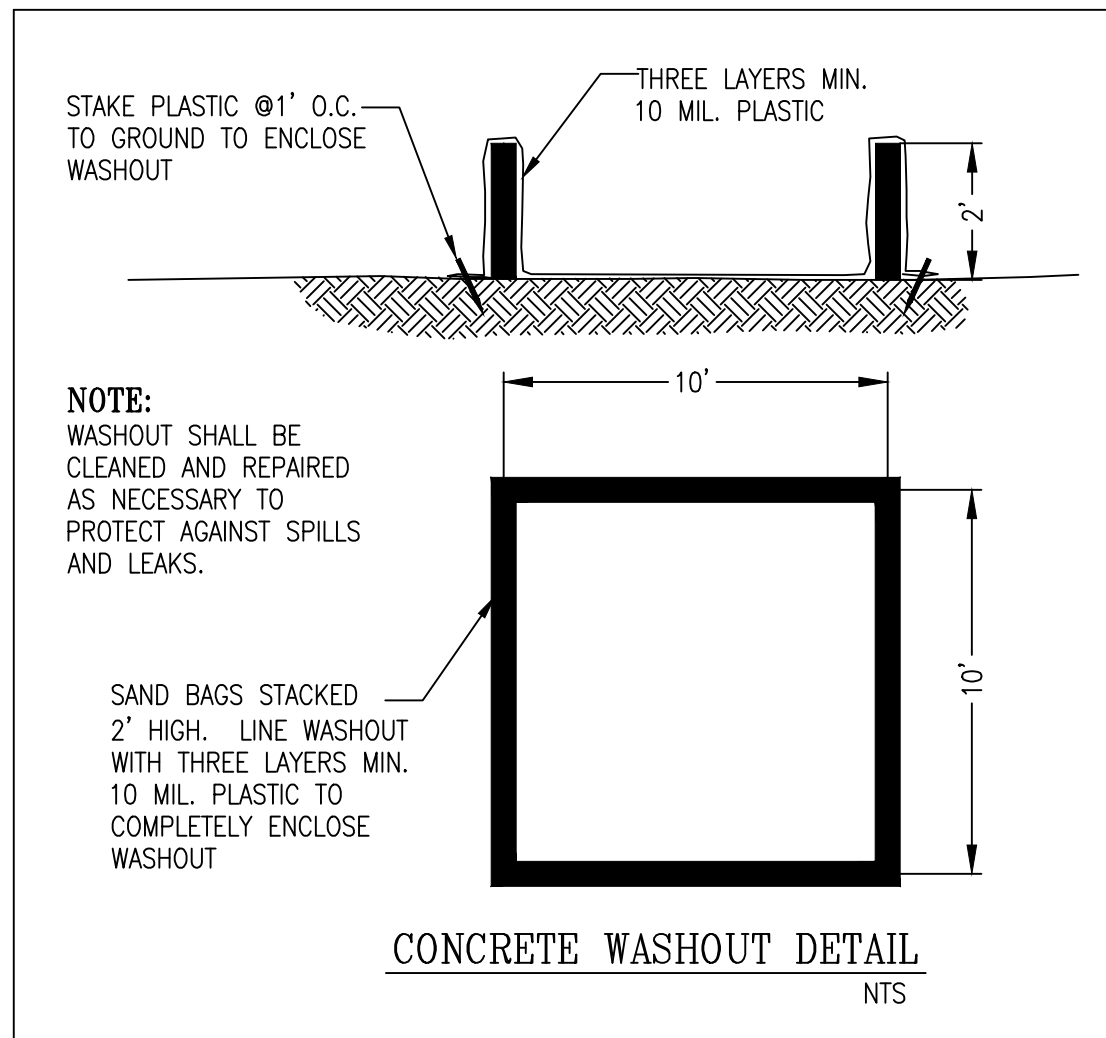


SHEET TITLE:

**ESCP
 FINAL LANDSCAPING
 AND STABILIZATION
 PLAN**

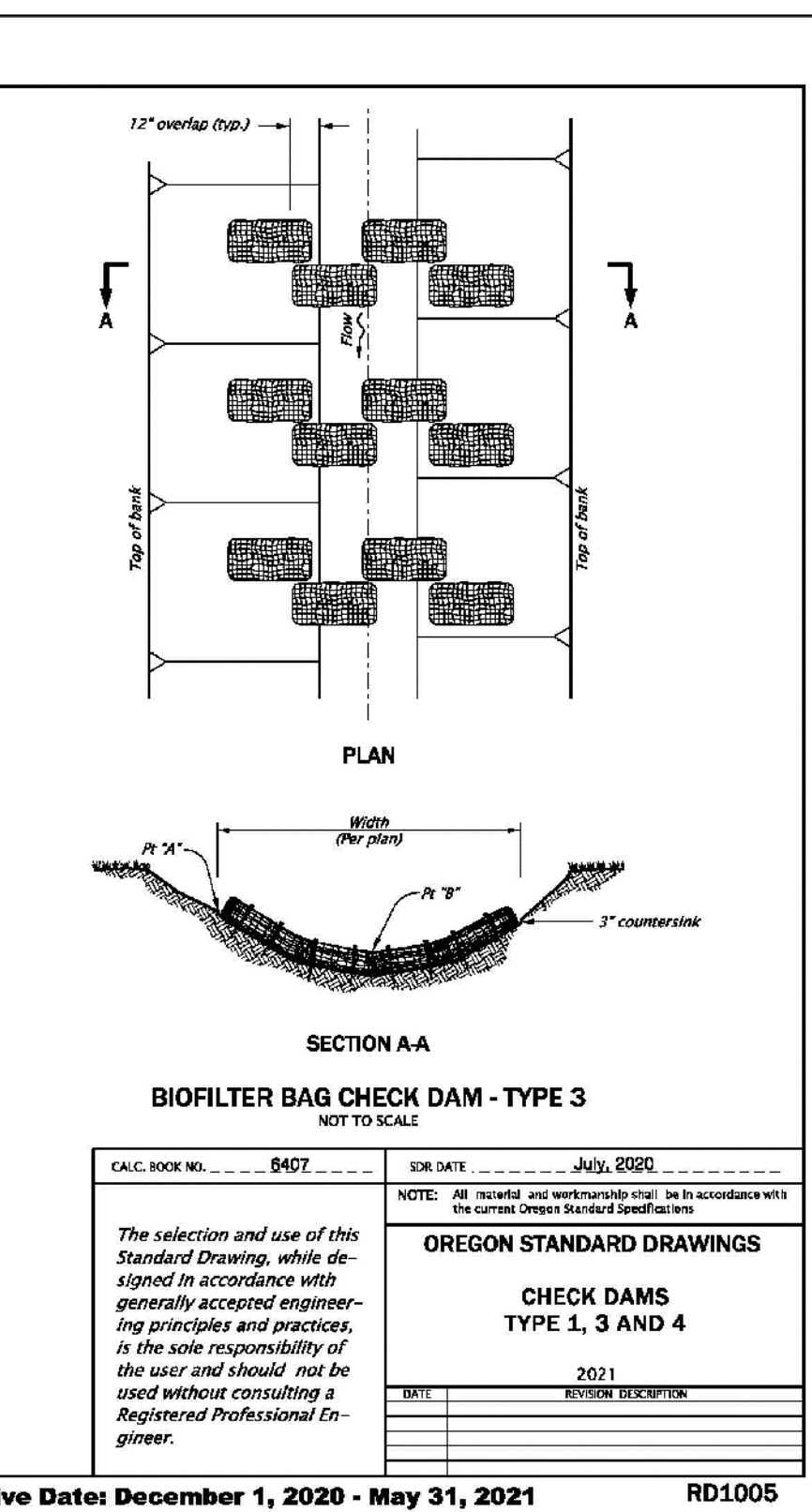
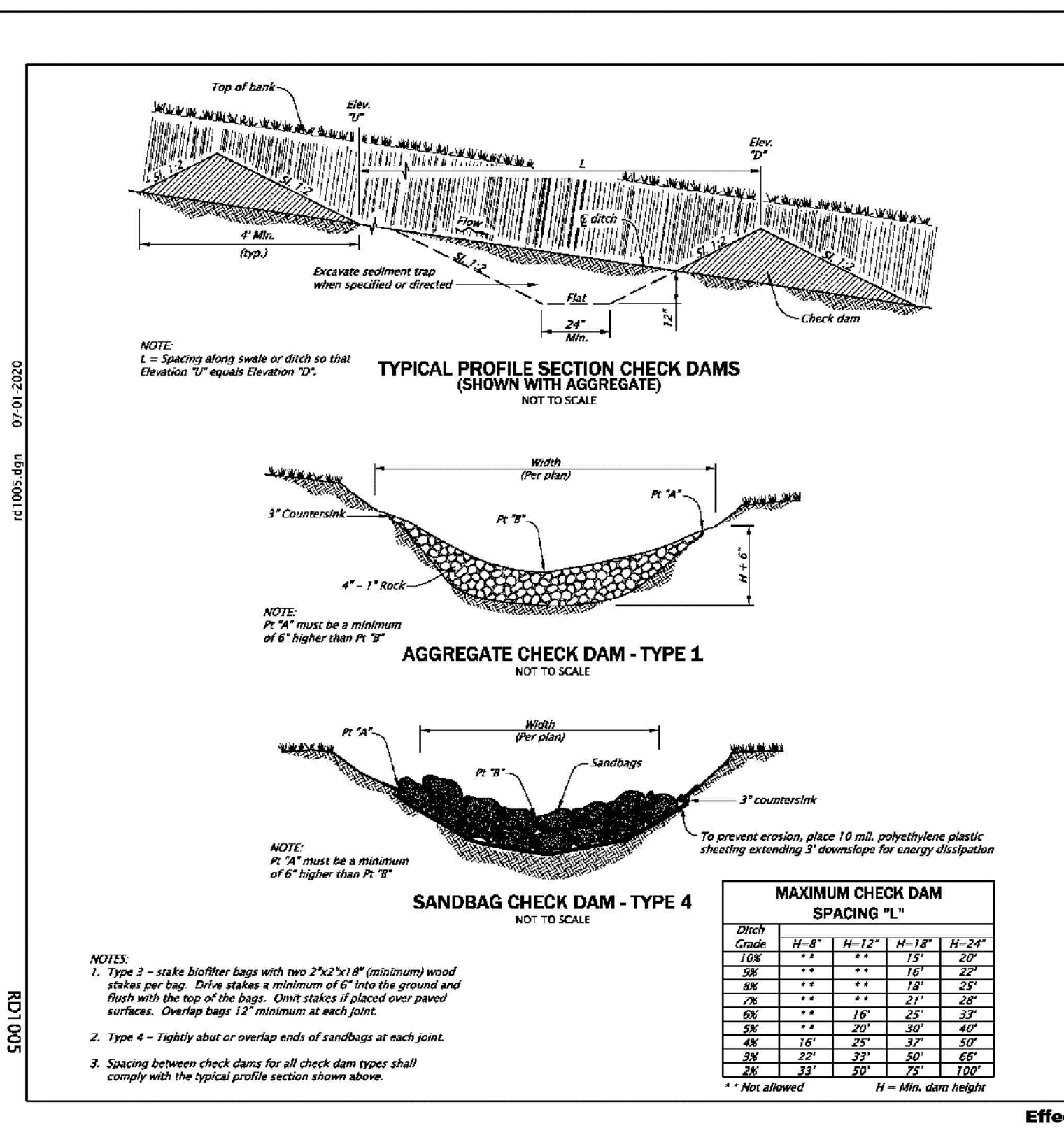
DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20



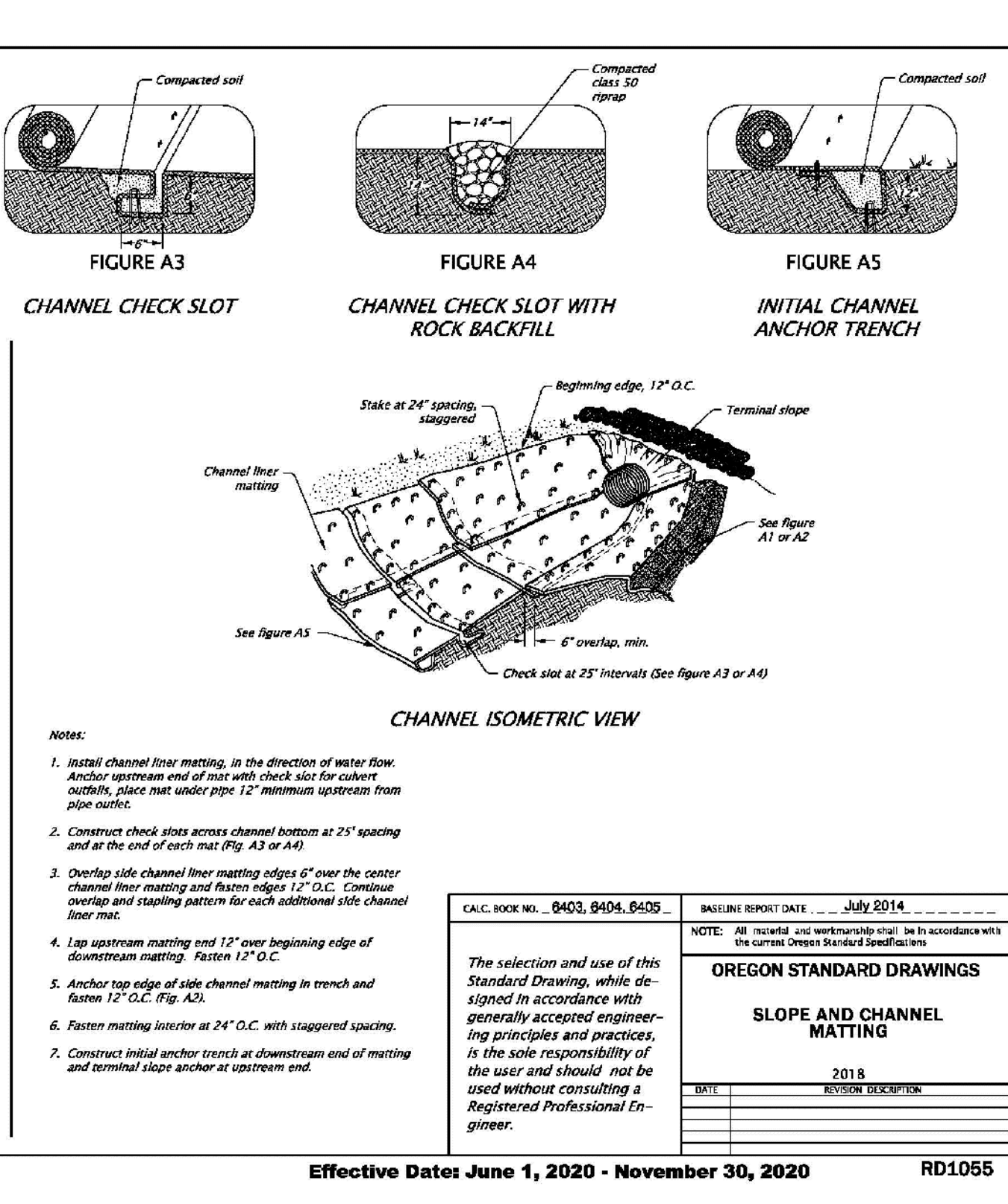
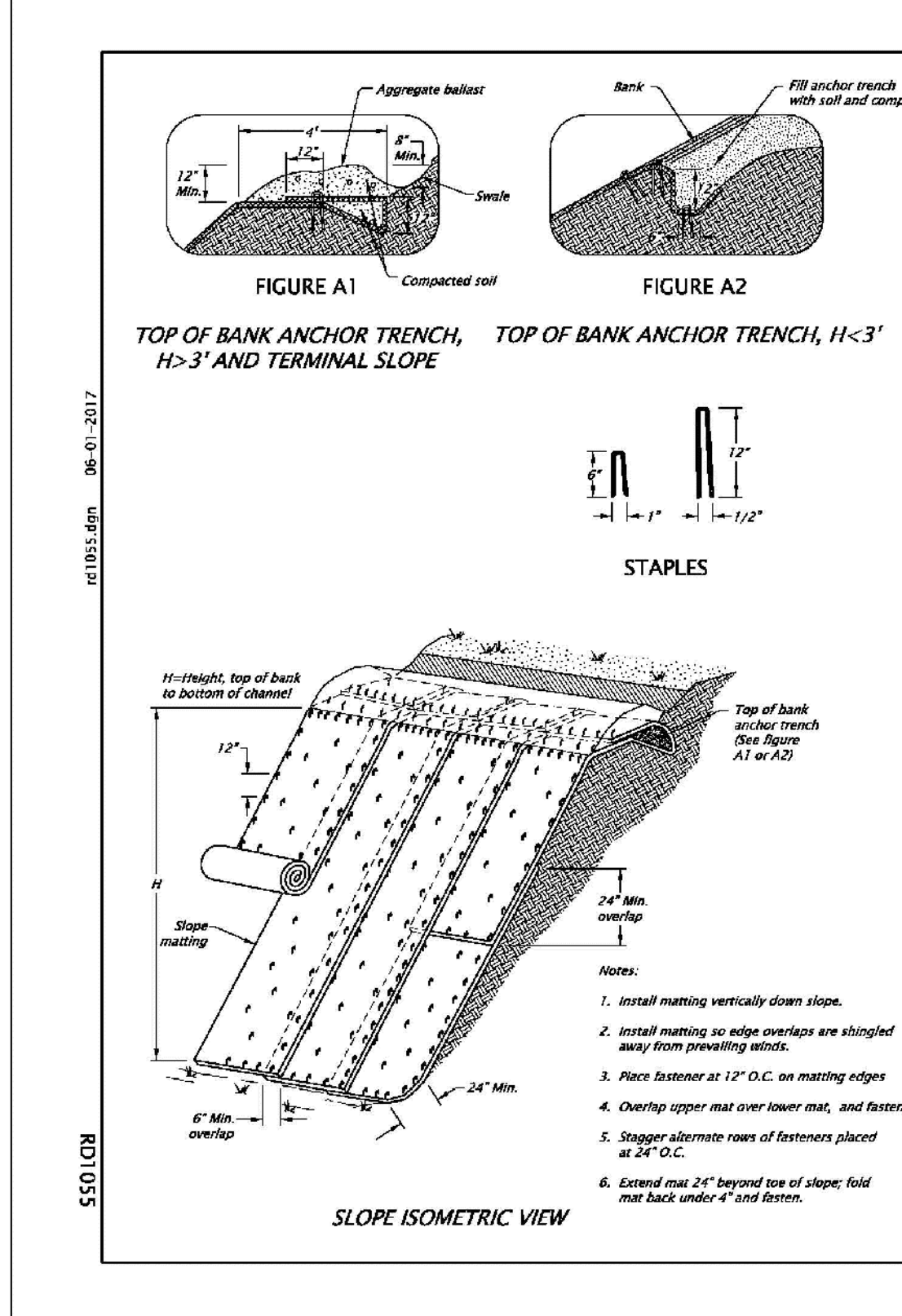
CALC. BOOK NO.	8408	BASELINE REPORT DATE	July 2014
NOTE: All materials and workmanship shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
CONSTRUCTION ENTRANCES			
DATE	2018	REVISION DESCRIPTION	

Effective Date: June 1, 2020 - November 30, 2020 RD1000



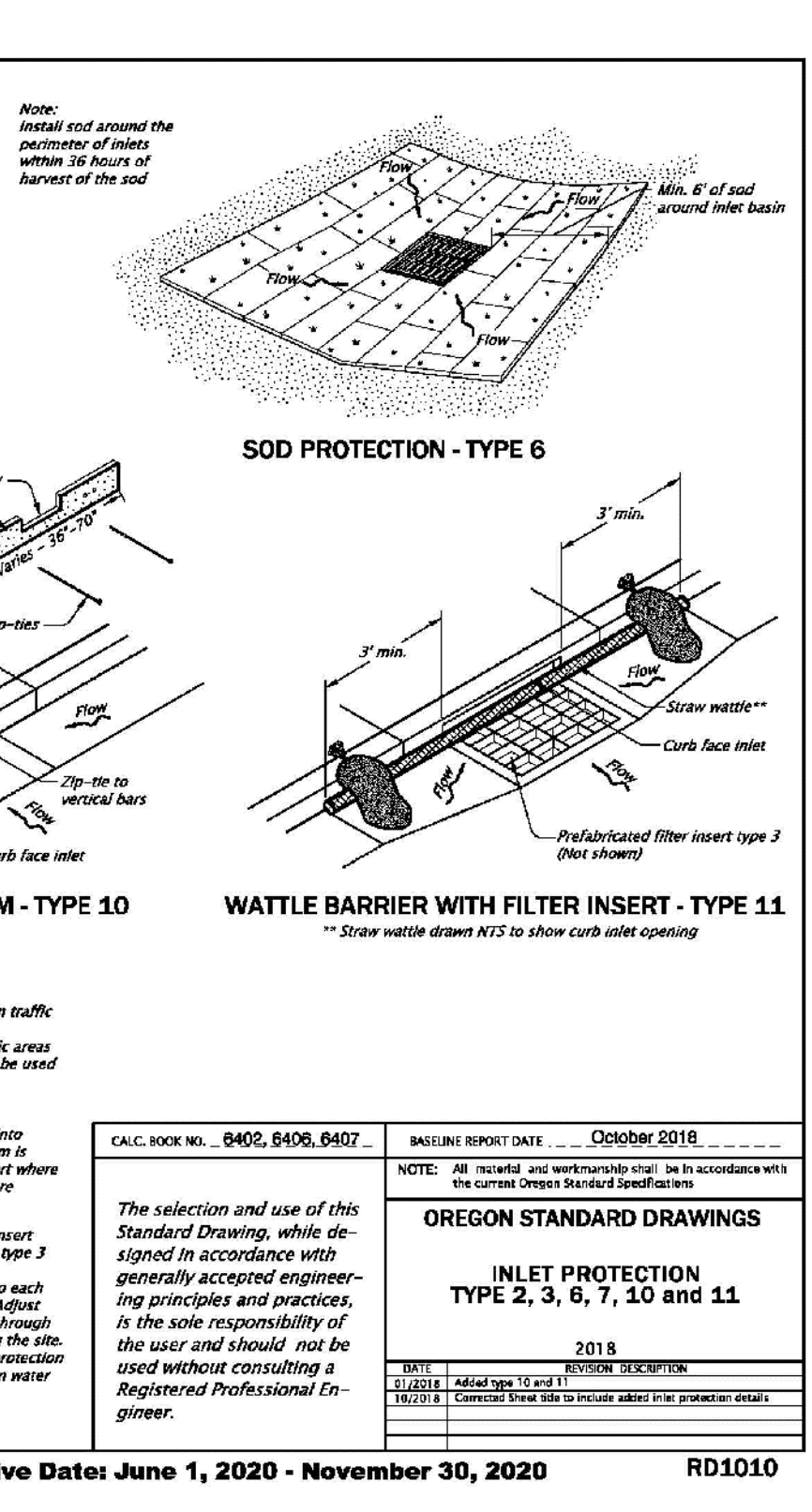
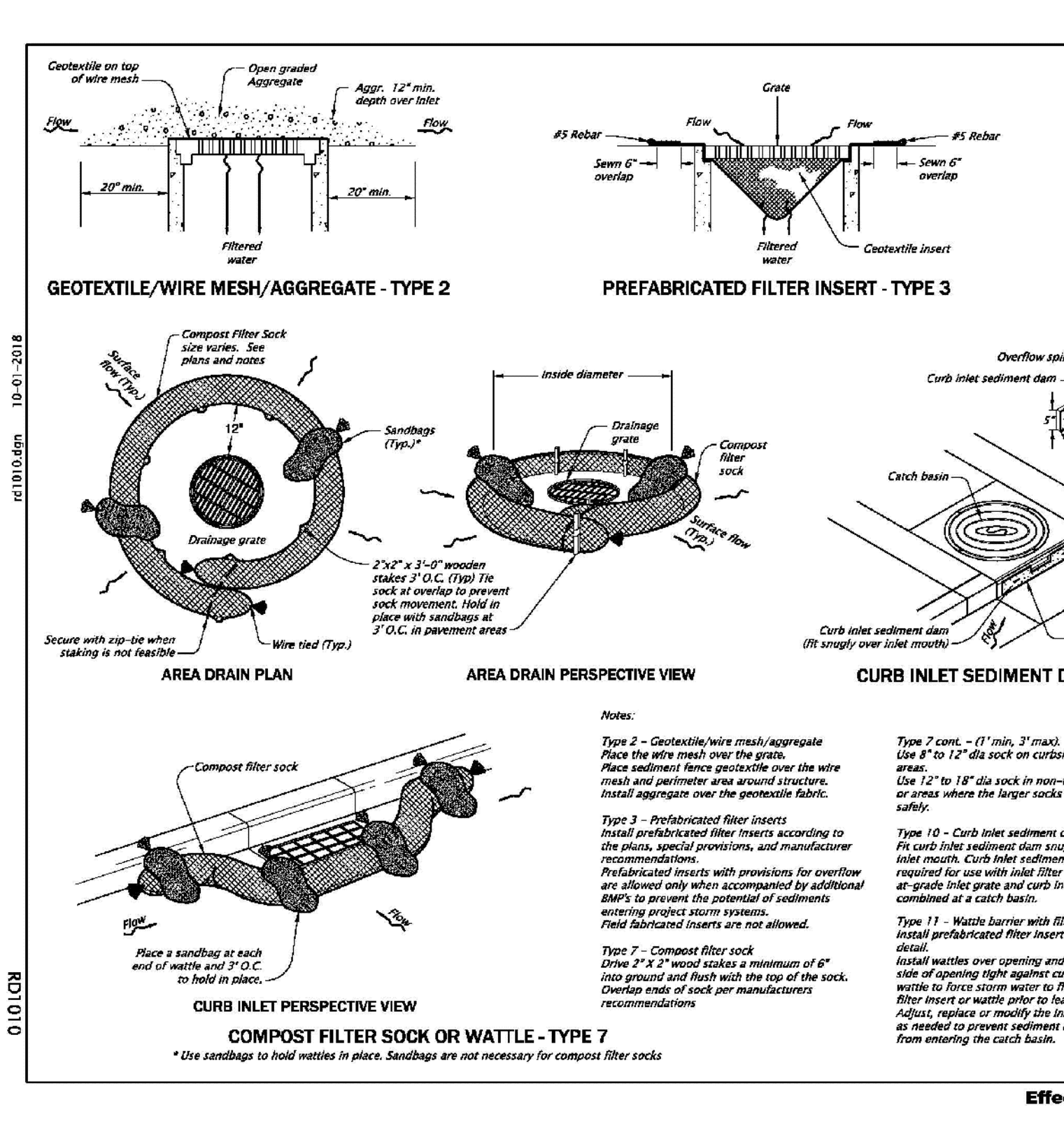
CALC. BOOK NO.	8407	BASELINE REPORT DATE	July 2014
NOTE: All materials and workmanship shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
CHECK DAMS TYPE 1, 3 AND 4			
DATE	2018	REVISION DESCRIPTION	

Effective Date: December 1, 2020 - May 31, 2021 RD1005



CALC. BOOK NO.	8403, 8404, 8405	BASELINE REPORT DATE	July 2014
NOTE: All materials and workmanship shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
SLOPE AND CHANNEL MATTING			
DATE	2018	REVISION DESCRIPTION	

Effective Dates: June 1, 2020 - November 30, 2020 RD1055



CALC. BOOK NO.	8402, 8406, 8407	BASELINE REPORT DATE	October 2018
NOTE: All materials and workmanship shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
INLET PROTECTION TYPE 2, 3, 6, 7, 10 AND 11			
DATE	2018	REVISION DESCRIPTION	

Effective Date: June 1, 2020 - November 30, 2020 RD1010

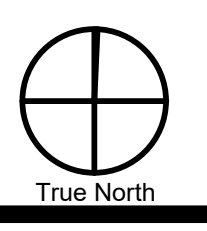


CONSULTANT:



PROJECT NUMBER: 218113

KEY PLAN:



SHEET TITLE:

BMP DETAILS

DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20

SHEET:

EC-8.0
100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020