1. 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)

2. Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)

3. Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)

4. 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)

5. 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)

6. The ESCP must be accurate and reflect site conditions. (Section 4.8)

7. 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)

8. Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)

9. Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)

10. 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)

11. 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)

12. Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)

13. 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)

14. 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)

15. 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)

16. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)

17. 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)

18. Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)

19. 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)

20. 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)

21. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)

22. 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)

23. Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)

24. Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)

25. 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 2.3)

26. 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)

27. If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)

28. Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)

29. 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)

30. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)

31. 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)

32. 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)

33. 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)

34. 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)

35. 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)

36. 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)

37. 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)

38. 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)

39. 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)

40. 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.)

41. 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)

42. 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

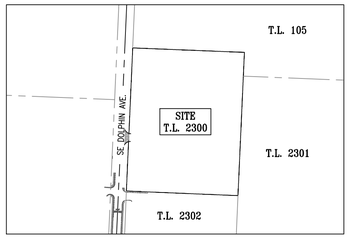
PROJECT NAME
ADDRESS
NUMBER
AND OTHER RELEVENT INFORMATION

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 CONSTRUCITON	FINAL STABILIZATION
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	



SITE MAP
N.T.S.

VICINITY MAP
N.T.S.

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 #- EXPIRATIOIN 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:

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

ADD LISTS FOR THE FOLLOWING: POLLUTANT GENERATING MATERIALS, WATERBODIES WITHIN A 1-MILE RADIUS OF PROJET, AUTHORIZED NON-STORMWATER DISCHARGES, 303(d) IMPAIRMENTS OF RECEIVING WATERBODY.

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:

LEGEND

- BOUNDARY LINE
- ADJACENT LOT LINE
- 133 EXISTING 1' CONTOUR LINE
- W EXISTING WATER METER AND PIPE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- ST EXISTING STORM DRAINAGE SYSTEM
- GAS EXISTING GAS LINE
- EXISTING CATCH BASIN
- EXISTING STORMWATER CULVERT
- WW EXISTING WASTEWATER SYSTEM
- E EXISTING OVERHEAD ELECTRIC
- T EXISTING TELECOMMUNICATION LINE
- EXISTING STREET LIGHT
- EXISTING ELECTRIC TRANSFORMER
- EXISTING UTILITY POLE
- EXISTING GUY ANCHOR
- 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:

True North

SHEET TITLE:

ESCP COVER SHEET

DRAWN BY: ACH

1 PLAN CHECK RESPONSE 12-23-20

SHEET:

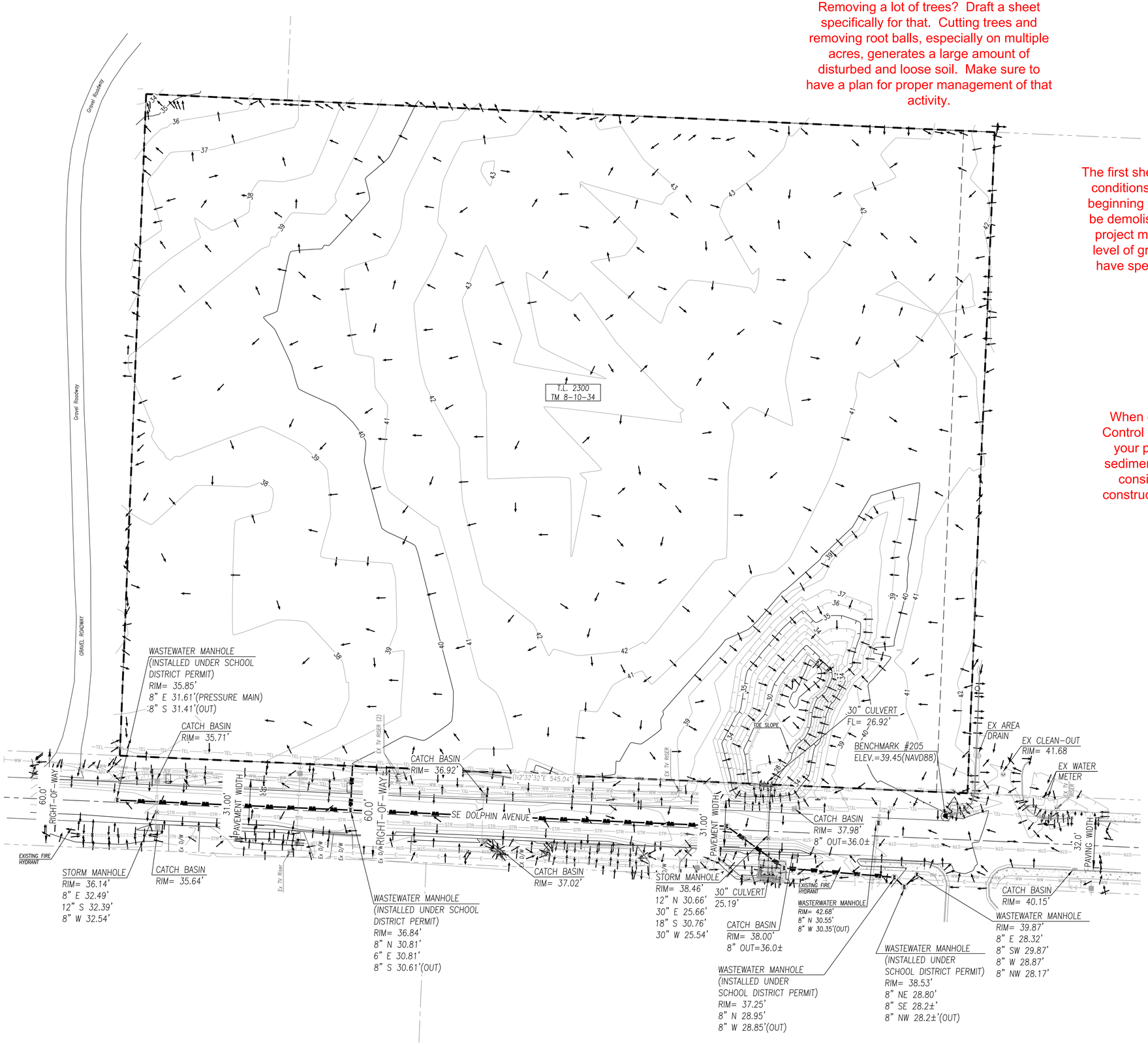
EC-1.0

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:

True North

SHEET TITLE:

ESCP EXISTING CONDITIONS

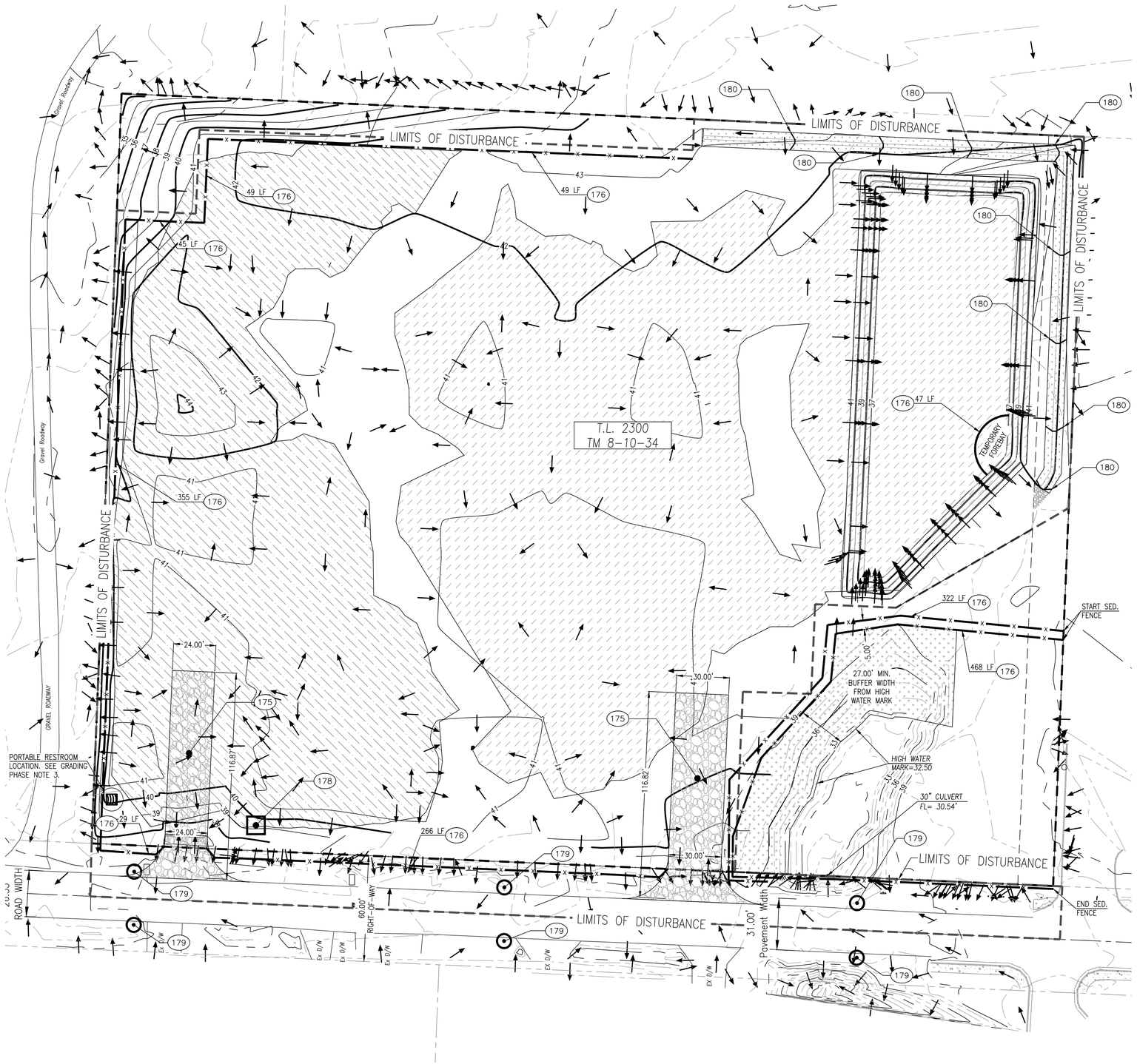
DRAWN BY: ACH

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-2.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020



SCALE: 1"=50'

50' 0 50' 100'

CONSTRUCTION NOTES

175. CONSTRUCT CRUSHED ROCK ACCESS PAD. PROVIDE 6" MINIMUM DEPTH 2"–3" CRUSHED ROCK COMPACTED TO 90% MAXIMUM DENSITY. PAD SHALL BE 20' MIN WIDTH BY 50' LONG. REFER TO SHEET EC–8.0 FOR DETAIL.

176. CONSTRUCT SEDIMENTATION CONTROL SILT FENCING PER DETAIL. REFER TO SHEET EC–8.0.

178. CONSTRUCT CONCRETE WASHOUT AREA AS PER DETAIL. REFER TO SHEET EC–8.0.

179. INSTALL CATCH BASIN FILTER INSERT PER DETAIL ON SHEET EC–8.0.

180. INSTALL TYPE 3 BIOFILTER BAG CHECK DAM AT 50' INTERVALS PER DETAIL ON SHEET EC–8.0.

LEGEND

- AREA OF FILL (+1.00' OR GREATER)
- AREA OF CUT (–1.00' OR GREATER)
- HYDROSEEDING FOR FINAL STABILIZATION
- UNDISTURBED NATURAL BUFFER AREA
- 320 / 321 EXISTING 1' CONTOUR LINE
- 320 / 321 FINISHED GRADE CONTOURS
- DRAINAGE FLOW ARROW

GRADING PHASE INFORMATION:

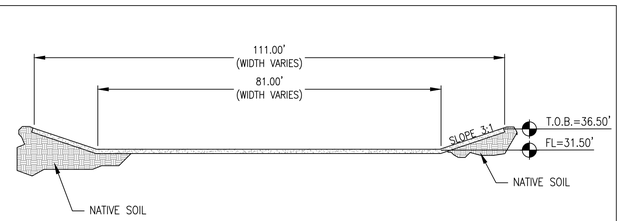
1. ONSITE SOIL TYPES:
   A) WALLUSKI MEDIAL SILT LOAM–HYDROLOGIC GROUP C–100%
2. EXISTING VEGETATION CONSISTS OF A MIX OF HERBACEOUS–WOODY UNDERSTORY SHRUBS AND GROUNDCOVERS AND IS DOMINATED BY SCOTCH BROOM.
2. CUT AND FILL DATA:
   –CUT: 9,155 CU. YD.
   –FILL (1.20 FACTOR): 4500 CU. YD.
   –NET ADJUSTED: 4,655 CU. YD. (CUT)
3. ONSITE FILL MATERIALS:
   –NATIVE SOIL
   –CRUSHED ROCK
3. PHASE SCHEDULE:
   START: FEBRUARY 2021
   FINISH: APRIL 2021

GRADING PHASE NOTES:

1. DRAINAGE DITCH ALONG THE SOUTH AND EAST BOUNDARY SHALL BE PERMANENTLY SEEDED AS SOON AS POSSIBLE AFTER EXCAVATION.
2. ANY STORM RUNOFF CONVEYED BY THE DRAINAGE DITCH MENTIONED ABOVE IS TO BE TRAPPED AT THE END OF THE DITCH ON THE WEST AND PUMPED TO THE DETENTION POND WITHIN THE TEMPORARY FOREBAY AREA AS SHOWN.
3. IN CASE OF SPILLS FROM THE PORTABLE RESTROOM. REFER TO THE SPILL PLAN.
4. STRAW MULCH AND/OR HYDROSEED SHALL BE USED FOR TEMPORARY STABILIZATION OF EXPOSED SOILS AFTER EXCAVATION.
5. HYDROSEED FOR TEMPORARY STABILIZATION TO BE SUNMARK SEEDS TURF WORX MIX PER DETAIL ON THIS SHEET.

Add Seed Mix Information Here (i.e. composition percentages, supplier, total amount).

ADD STOCKPILE AREA AND STAGING AREA THAT INCLUDES SANITARY FACILITY AND WASTE RECEPTACLE WITH LID.



DETENTION POND CROSS–SECTION DETAIL
NTS

INCLUDE POND (BASIN) VOLUME TO MEET 2.2.17 SIZING REQUIREMENT. ADD RESTORATION PLAN IF UTILIZED DURING CONSTRUCTION ACTIVITIES.

ESCP PREPARER:

A legend is always necessary. Any symbol you use needs to be defined here. You can use numbered or lettered keynotes for descriptions as well.

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

True North

SHEET TITLE:

ESCP
DEMO, CLEARING, GRADING, EXCAVATING, AND LAND DEVELOPMENT PLAN

DRAWN BY: ACH

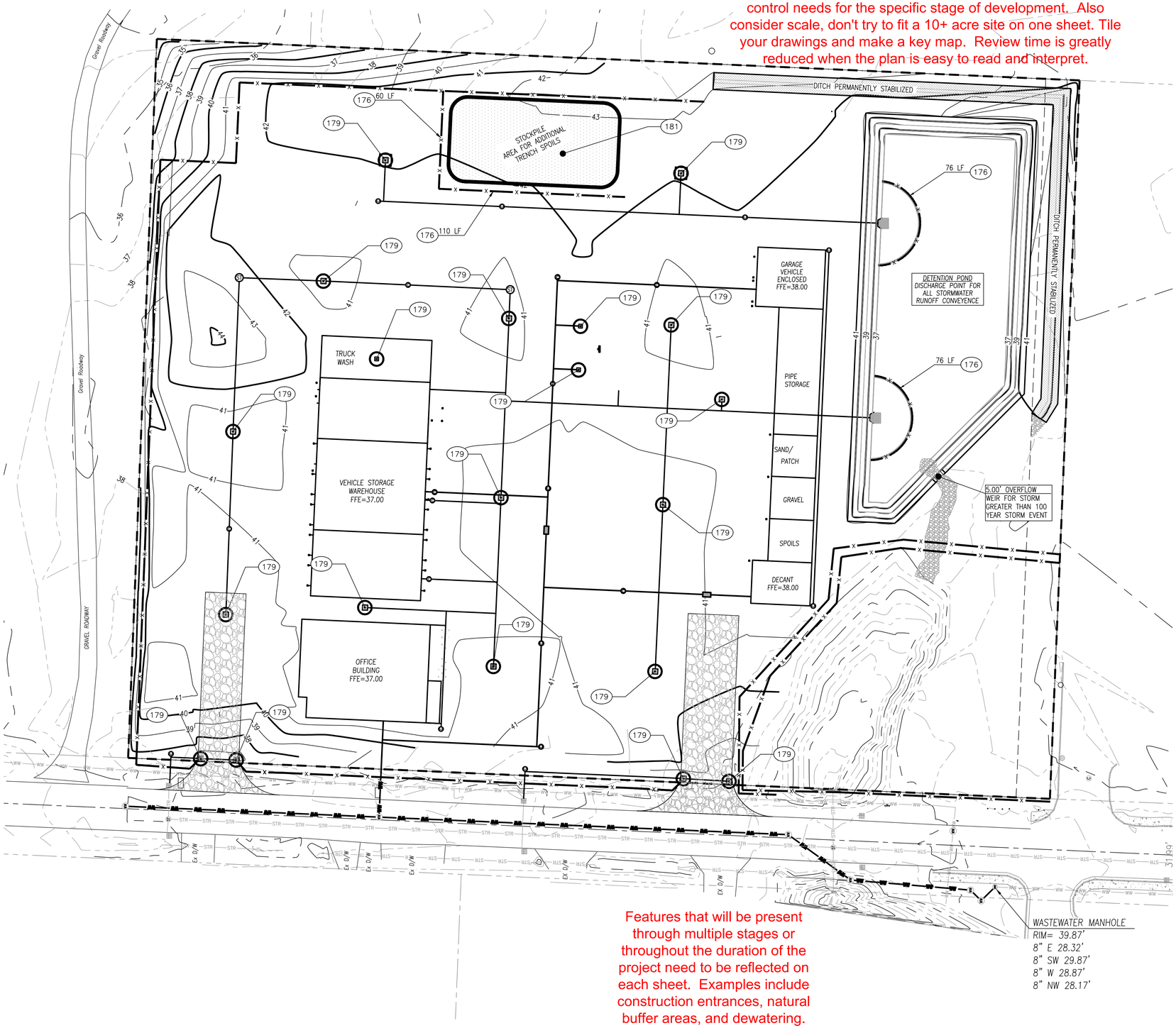
1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-3.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020

Don't crowd the map! Provide the minimum amount of information necessary to communicate the erosion and sediment control needs for the specific stage of development. Also consider scale, don't try to fit a 10+ acre site on one sheet. Tile your drawings and make a key map. Review time is greatly reduced when the plan is easy to read and interpret.



SCALE: 1"=30'

30' 0 30' 60'

UTILITIES PHASE INFORMATION:

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

UTILITIES PHASE NOTES:

1. PROPOSED DETENTION POND TO BE DISCHARGE POINT FOR ALL STORMWATER RUNOFF CONVEYANCE.
2. ANY TRENCH DEWATERING SHALL BE DISCHARGED THROUGH A FILTER BAG INTO DETENTION POND WITHIN THE FOREBAY AREAS AS SHOWN.
3. STRAW MULCH AND/OR HYDROSEED SHALL BE USED FOR TEMPORARY STABILIZATION OF ANY EXPOSED TRENCH SPOILS (INCLUDING STOCKPILE IF PLASTIC SHEETING DOESN'T WORK).

(#) CONSTRUCTION NOTES

176. CONSTRUCT SEDIMENTATION CONTROL SILT FENCING PER DETAIL. REFER TO SHEET EC-8.0.

179. INSTALL CATCH BASIN FILTER INSERT PER DETAIL ON SHEET EC-8.0.

181. STOCK PILE TO BE COVERED WITH PLASTIC HELD DOWN BY SANDBAGS WHEN NOT IN USE.

ADD STAGING AREA THAT INCLUDES SANITARY FACILITY AND WASTE RECEPTACLE WITH LID.

All dewatering must be addressed and managed appropriately, even authorized (non-polluted) dewatering.

If possible, determine the background turbidity of the receiving waterbody. Make sure that the discharges from your site are no more than 10% higher than that number.

Features that will be present through multiple stages or throughout the duration of the project need to be reflected on each sheet. Examples include construction entrances, natural buffer areas, and dewatering.

Utility installation presents unique erosion and sediment control challenges. Developing a separate sheet for this stage of the project helps ensure compliance with the 1200-C.

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

True North

SHEET TITLE:

ESCP STREET AND UTILITIES

DRAWN BY: ACH

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-4.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020

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).

SCALE: 1"=30'

30' 0 30' 60'

OFFSITE PHASE INFORMATION:

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

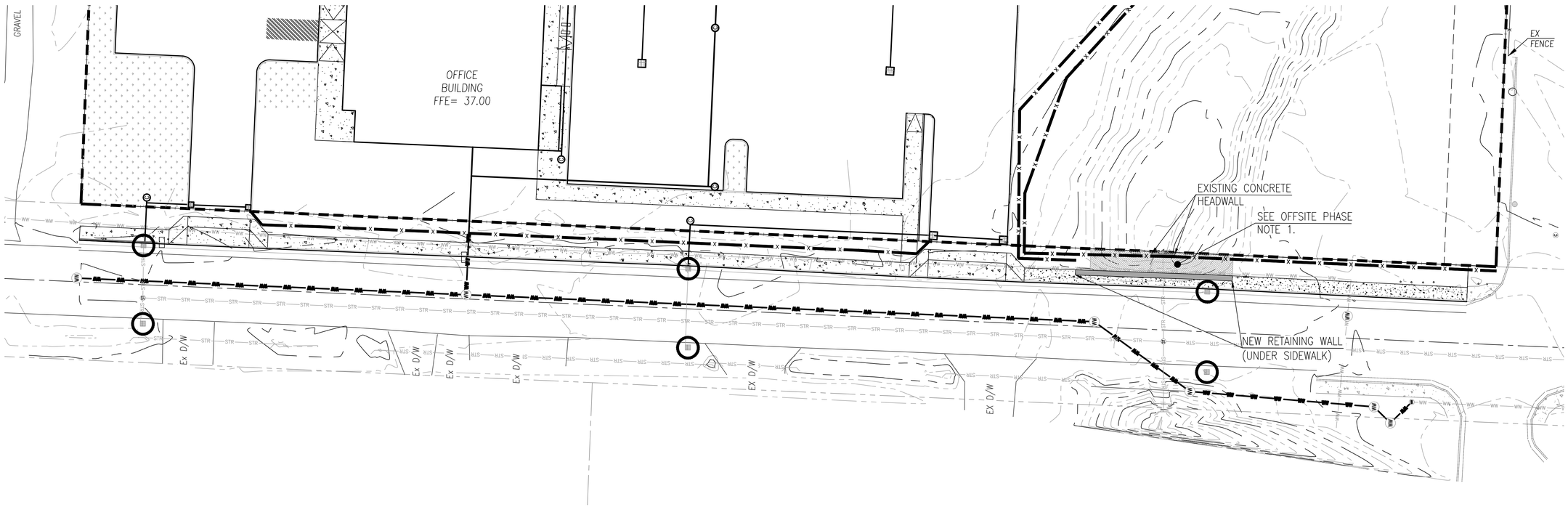
2. LINEAR FOOTAGE OF STREET IMPROVEMENT: 550 LF

OFFISITE 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.



CONSULTANT:

KEY PLAN:

True North

SHEET TITLE:

ESCP OFFISTE SE MAIN AVE.

PROJECT NUMBER: *218113*

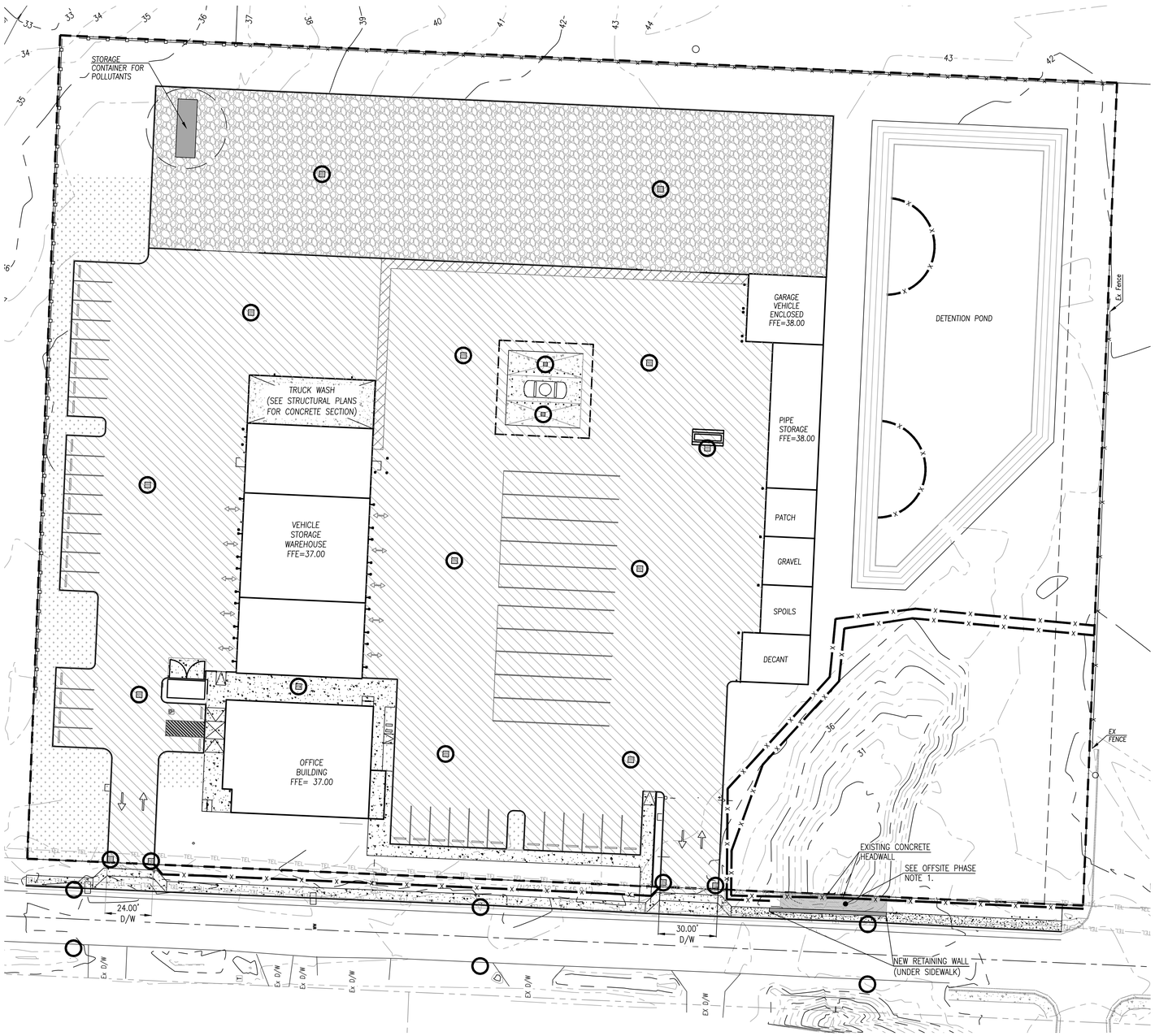
DRAWN BY: *ACH*

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-5.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020



SCALE: 1"=30'

30' 0 30' 60'

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:

True North

SHEET TITLE:

ESCP VERTICAL CONSTRUCTION PLAN

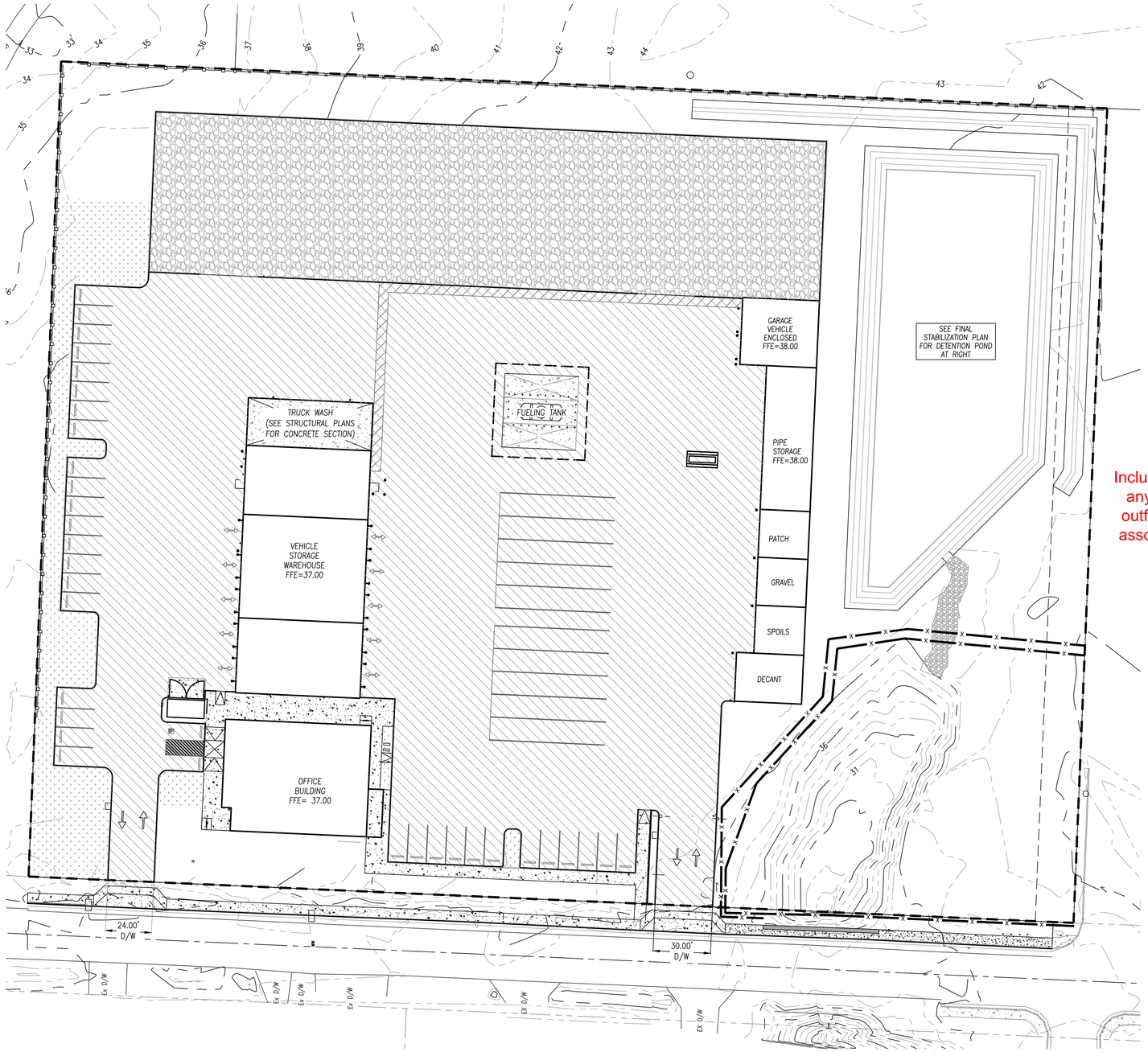
DRAWN BY: ACH

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-6.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020



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.

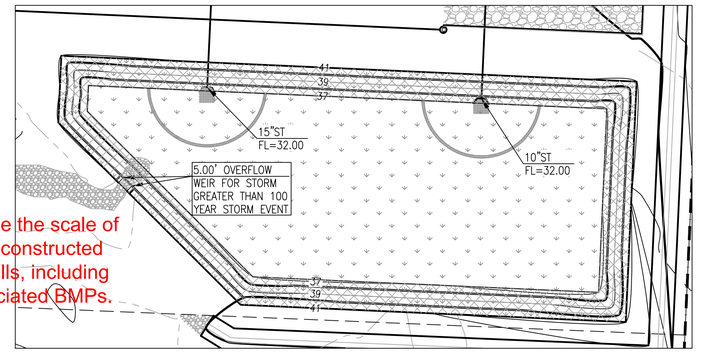
SCALE: 1"=30'

30' 0 30' 60'

PLANTINGS LISTS

DETENTION POND

PLANTING ZONE	HATCH/CODE	HYDROSEED MIX	COMMON NAME	QUANTITY	COMMENTS	JUTE MAT*
100 PERCENT COVERAGE		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	



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

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).

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.

ADD BASIN RESTORATION PLAN, TYPICALLY "EXCAVATE TOP 18" AFTER CONSTRUCTION ACTIVITIES CEASE AND FINAL STABILIZATION IS ACHIEVED. ADD 18" OF APPROVED GROWTH MEDIA BEFORE VEGETATING".

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

True North

SHEET TITLE:

ESCP FINAL LANDSCAPING AND STABILIZATION PLAN

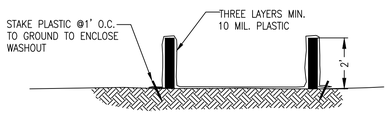
DRAWN BY: ACH

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

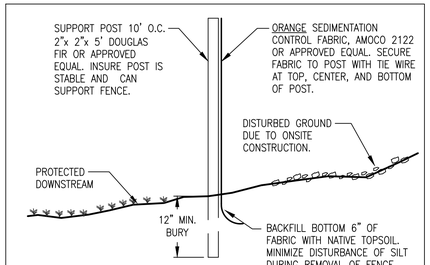
EC-7.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020



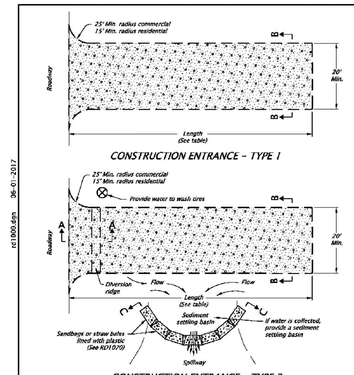
CONCRETE WASHOUT DETAIL

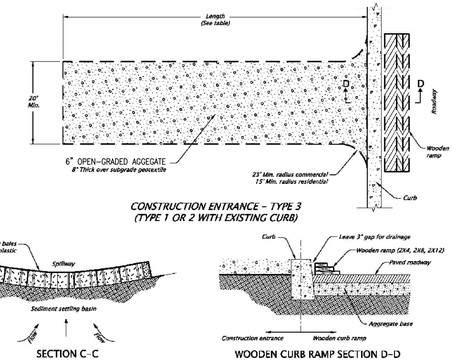
NTS



SEDIMENTATION CONTROL
FABRIC TYPE SILT FENCE

NTS





Notes:

1. The type 1 entrance is a simple entrance without a diversion ridge or settling basin.
2. The wooden ramp may be used on either type 1 or type 2 entrances in situations where there is curb and the curb is not removed for the construction entrance.

CONSTRUCTION ENTRANCE TABLE MINIMUM LENGTH	
Length (FT)	Area Of Exposed Soil (Acre)
20	0.25
50	0.25 < A <1.0
100	A > 1.0

CALC. BOOK NO. 6408	BASELINE REPORT DATE July 2014
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

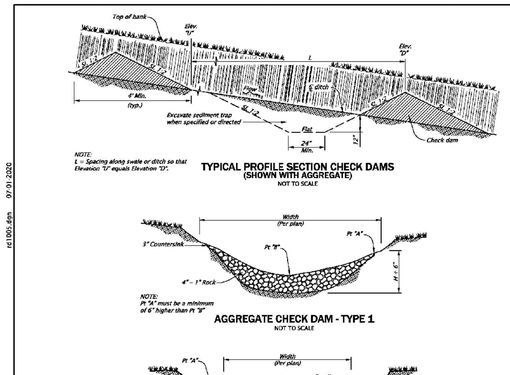
CONSTRUCTION ENTRANCES

2018

DATE	REVISION DESCRIPTION

RD1000.dgn 06-01-2017

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

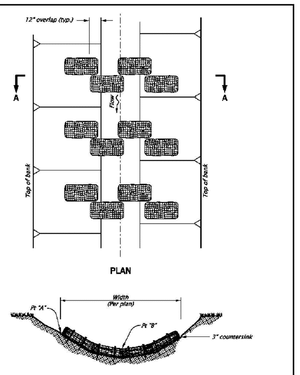


NOTES:

1. Type 3 – stake biofilter bags with two 2"x2"x1.8" (minimum) wood stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags. Omit stakes if placed over paved surfaces. Overlap bags 12" minimum at each joint.
2. Type 4 – Tightly abut or overlap ends of sandbags at each joint.
3. Spacing between check dams for all check dam types shall comply with the typical profile section shown above.

MAXIMUM CHECK DAM SPACING "L"				
Ditch Grade	H=8"	H=12"	H=18"	H=24"
10%	* *	* *	15'	20'
8%	* *	* *	18'	25'
6%	* *	* *	21'	28'
4%	16'	25'	31'	41'
2%	32'	51'	62'	82'
1%	63'	102'	125'	165'

* * Not allowed H = Min. dam height



BIOFILTER BAG CHECK DAM - TYPE 3

NOT TO SCALE

CALC. BOOK NO. 6407	SDR DATE July, 2020
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

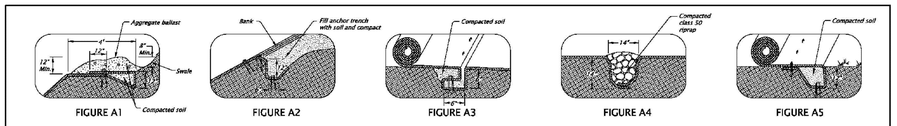
CHECK DAMS
TYPE 1, 3 AND 4

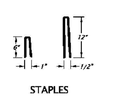
2021

DATE	REVISION DESCRIPTION

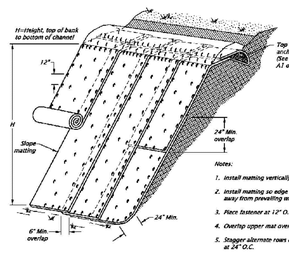
RD1005.dgn 07-01-2020

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



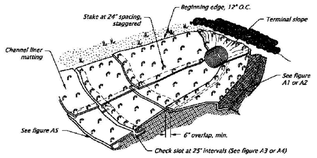


STAPLES



Notes:

1. Install matting vertically down slope.
2. Install matting so edge overlaps are shingled away from prevailing winds.
3. Place fastener at 12" O.C. on matting edges
4. Overlap upper mat over lower mat, and fasten.
5. Stagger alternate rows of fasteners placed at 24" O.C.
6. Extend mat 24" beyond toe of slope; fold mat back under 4" and fasten.



Notes:

1. Install channel liner matting, in the direction of water flow. Anchor upstream end of mat with check slot for culvert outfalls, place mat under pipe 12" minimum upstream from pipe outlet.
2. Construct check slots across channel bottom at 25' spacing and at the end of each mat (Fig. A3 or A4).
3. Overlap side channel liner matting edges 6" over the center channel liner matting and fasten edges 12" O.C. Continue overlap and stapling pattern for each additional side channel liner mat.
4. Lap upstream matting end 12" over beginning edge of downstream matting. Fasten 12" O.C.
5. Anchor top edge of side channel matting in trench and fasten 12" O.C. (Fig. A3).
6. Fasten matting interior at 24" O.C. with staggered spacing.
7. Construct initial anchor trench at downstream end of matting and terminal slope anchor at upstream end.

CALC. BOOK NO. 6403, 6404, 6405	BASELINE REPORT DATE July 2014
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

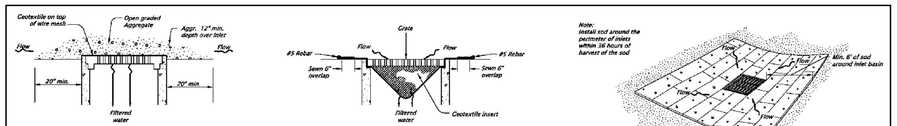
SLOPE AND CHANNEL MATTING

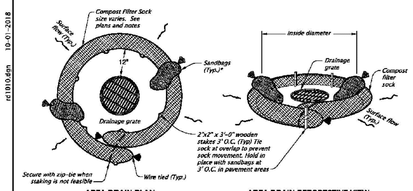
2018

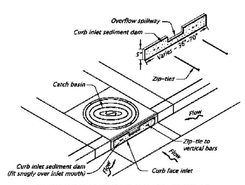
DATE	REVISION DESCRIPTION

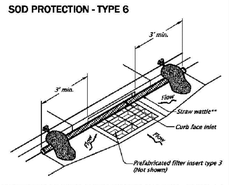
RD1055.dgn 06-01-2017

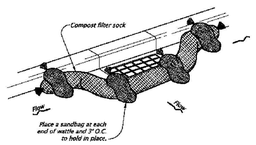
Effective Date: June 1, 2020 - November 30, 2020 RD1055











COMPOST FILTER SOCK OR WATTLE - TYPE 7

* Use sandbags to hold wattles in place. Sandbags are not necessary for compost filter socks

Notes:

Type 2 – Geotextile/wire mesh/aggregate
Place the wire mesh over the grate. Place sediment fence geotextile over the wire mesh and perimeter area around structure. Install aggregate over the geomesh fabric.

Type 3 – Prefabricated filter inserts
Install prefabricated filter inserts according to the plans, special provisions, and manufacturer recommendations. Prefabricated inserts with provisions for overflow are allowed only when accompanied by additional BMP's to prevent the potential of sediments entering project storm systems. Field fabricated inserts are not allowed.

Type 7 – Compost filter sock
Drive 2"x 2" wood stakes a minimum of 6" into ground and flush with the top of the sock. Overlap ends of sock per manufacturers recommendations

Type 7 cont. – (1" min, 3" max).
Use 8" to 12" dia sock on curbside in traffic areas.
Use 12" to 18" dia sock in non-traffic areas or area where the larger socks can be used safely.

Type 10 – Curb inlet sediment dam
Fit curb inlet sediment dam snugly into inlet mouth. Curb inlet sediment dam is required for use with inlet filter insert where at-grade inlet grate and curb inlet are combined at a catch basin.

Type 11 – Wattle barrier with filter insert
Install prefabricated filter insert per type 3 detail.
Install wattles over opening and 3' to each side of opening right against curb. Adjust wattle to force storm water to flow through filter insert or wattle prior to having the site. Adjust, replace or modify the inlet protection as needed to prevent sediment laden water from entering the catch basin.

CALC. BOOK NO. 6402, 6406, 6407	BASELINE REPORT DATE October 2018
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

INLET PROTECTION
TYPE 2, 3, 6, 7, 10 and 11

2018

DATE	REVISION DESCRIPTION
11/2019	Added type 10 and 11
06/2019	Corrected linear title to include added inlet protection details

RD1010.dgn 10-01-2018

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

CONSULTANT:

PROJECT NUMBER: 218113

KEY PLAN:

True North

SHEET TITLE:

BMP DETAILS

DRAWN BY: ACH

1	PLAN CHECK RESPONSE	12-23-20

SHEET:

EC-8.0

100% DESIGN DEVELOPMENT
SEPTEMBER 28TH, 2020