

To: Tom Boydell, Project Manager

From: Peter Battuello, Project Manager
Kern McGee, PE, Stormwater Engineer

Date: March 18, 2023

Re: PA23031; Marysville Riverwalk Waterfront Redevelopment

Background

The Marysville Riverwalk Waterfront Redevelopment project is a future mixed-use development with plans for multi-family luxury apartments, hotels, restaurants, sports facilities, public plaza, and open space connections to the Ebey Waterfront Trail and connecting commercial uses. The City of Marysville is seeking to obtain the relevant environmental permits for clearing and filling the site with enough material to bring the elevations of the lowest floor of new buildings to above base flood elevations (currently 13 feet). The clearing and grading plans will include approaches to mitigate for the existing jurisdictional ditch that will be filled as part of site development. This memo documents how the project will comply with stormwater standards.

The current site contains a single TDA. See the Area of Potential Effect (Figure 1. Below) for project location and extents. The clearing and filling of the site will occur in three phases and involve the temporary stockpiling of up to 100,000 cubic yards of material on the 60 State Avenue property until such time the Public Works operations on 80 Columbia Avenue are relocated and utilities re-configured. The filling will not change the existing TDA. It will simply raise the grade and a series of existing catch basins and reuse existing storm facilities. The subject of this memo is limited to the preliminary clearing and grading of the site and is not intended to cover future construction of the mixed-use development.



Figure 1. Vicinity Map.

Conditions and Requirements Summary

The Marysville Riverwalk Waterfront Redevelopment project will be designed to meet the requirements outlined in the *2019 Stormwater Management Manual for Western Washington* (the Manual), adopted by the City of Marysville with Ordinance 3218. According to the Manual, this project will be subject to Minimum Requirements #1 through #5 only and is exempt from MR #7 – Flow Control because it discharges directly to the Ebey Slough. A summary of which requirements will be required or exempt and why is provided below.

Table 1. Explanation of Minimum Requirements.

Minimum Requirement (MR)	Required or Exempt?	Explanation
MR #1 – Preparation of Stormwater Site Plans	Required	Project results in 2,000 square feet, or more, of new plus replaced hard surface area; OR has land disturbing activity of 7,000 square feet or greater.
MR #2 – Construction Stormwater Pollution Prevention	Required	No exemptions to this requirement.
MR #3 – Source Control of Pollution	Required	Project results in 2,000 square feet, or more, of new plus replaced hard surface area; OR has land disturbing activity of 7,000 square feet or greater.
MR #4 – Preservation of Natural Drainage Systems and Outfalls	Required	Project results in 2,000 square feet, or more, of new plus replaced hard surface area; OR has land disturbing activity of 7,000 square feet or greater.
MR #5 – On-Site Stormwater Management	Required	Project results in 2,000 square feet, or more, of new plus replaced hard surface area; OR has land disturbing activity of 7,000 square feet or greater.
MR #6 – Runoff Treatment	Exempt	Project does NOT add 5,000 square feet or more of new hard surface.
MR #7 – Flow Control	Exempt	Direct discharge to Snohomish River. Project does NOT add 5,000 square feet or more of new hard surface.
MR #8 – Wetlands Protection	Exempt	Project does NOT add 5,000 square feet or more of new hard surface.
MR #9 – Operation and Maintenance	Exempt	Project does NOT add 5,000 square feet or more of new hard surface and does NOT add any new stormwater facilities or BMPs.

MEMORANDUM

Minimum Requirements

Projects which result in 2,000 square feet or more of new plus replaced hard surface, or which disturb 7,000 square feet or more of land, must comply with Minimum Requirements #1 through #5 of the Manual.

The total disturbed land area (consisting of fill soil and drainage system modifications) is 1,039,256 SF.

Projects which add 5,000 square feet or more of new hard surface must comply with all Minimum Requirements (#1 through #9).

This project does not add new hard surface and removes all existing hard surface. Therefore, only Minimum Requirements #1 through #5 are applicable.

This section describes each minimum requirement and how it is being met.

MR #1: Preparation of Stormwater Site Plans

Projects shall prepare a Stormwater Site Plan for local government review.

This Technical Memorandum, along with the Grading and TESC Plan, serve as the Stormwater Site Plan for this project.

MR #2: Construction Stormwater Pollution Prevention (SWPPP)

Projects must prepare a Construction SWPPP Plan (SWPPP) as part of the Stormwater Site Plan. The SWPPP shall be implemented beginning with initial land disturbance until final stabilization. Sediment and Erosion Control BMPs shall be consistent with the BMPs contained in Chapters 3 and 4 of Volume II of the Manual.

A Construction SWPPP Plan will be provided by the contractor once the project has been awarded.

MR #3: Source Control of Pollution

All known, available, and reasonable source control BMPs must be applied to all projects. Source control BMPs must be selected, designed, and maintained according to the manual.

Source control BMPs will be implemented during construction in accordance with Chapter 4 of the Manual. Permanent structural source control BMPs are not applicable because the project will not create sources of pollution targeted by this Minimum Requirement.

MR #4: Preservation of Natural Drainage Systems and Outfalls

Natural drainage patterns shall be maintained, and discharges from the project site shall occur at the natural location, to the maximum extent practicable.

Stormwater runoff from the project area is collected in catch basins and conveyed in pipes to on-site ditches. These ditches convey stormwater to the south, and discharge to Ebey Slough through culverts. Site hydrology will be modified to capture runoff from the proposed fill using existing catch basins and pipes that will be modified to the new elevations. This system will tie into the existing culverts discharging to the Ebey Slough. Drainage patterns are expected to remain unchanged, with no net increase in runoff volume or duration.

MEMORANDUM

MR #5: On-Site Stormwater Management

Projects shall employ on-site stormwater management BMPs to infiltrate, disperse, and retain stormwater runoff on-site to the extent feasible without causing flooding or erosion impacts. The project site is not exempt from MR #5 in accordance with Section 1-3.2 of Chapter 2 of Volume I of the Manual; therefore, soil quality and dispersion must be considered.

BMPs were considered for each surface type from List #3 in Table 1-3.2 of Chapter 2 of Volume I of the Manual. However, because the site will be fully graded with stabilized soils, only BMP T5.13: Post Construction Soil Quality and Depth must be considered. Runoff will be captured in new and existing catch basins and piped to existing outfalls to the Ebey Slough.

See **Table 2**, below, for a breakdown of surface type, BMPs and feasibility.

Table 2. On-Site Stormwater Management BMPs, List 3.

Surface Type	BMP Description	Is it Feasible?
Lawn and Landscaped Areas	Post-Construction Soil Quality and Depth in accordance with BMP T5.13 in Chapter 11 of Volume V of the Manual.	Yes.

ATTACHMENT A
Grading and TESC Plans

CITY OF MARYSVILLE

PUBLIC WORKS DEPARTMENT

MARYSVILLE RIVERWALK

CITY PERMIT PA23031

CITY OFFICIALS:

MAYOR:
JON NEHRING

COUNCIL MEMBERS:

KAMILLE NORTON
PETER CONDYLES
MARK A. JAMES
TOM KING
MICHAEL A. STEVENS
KELLY RICHARDS
STEPHEN C. MULLER

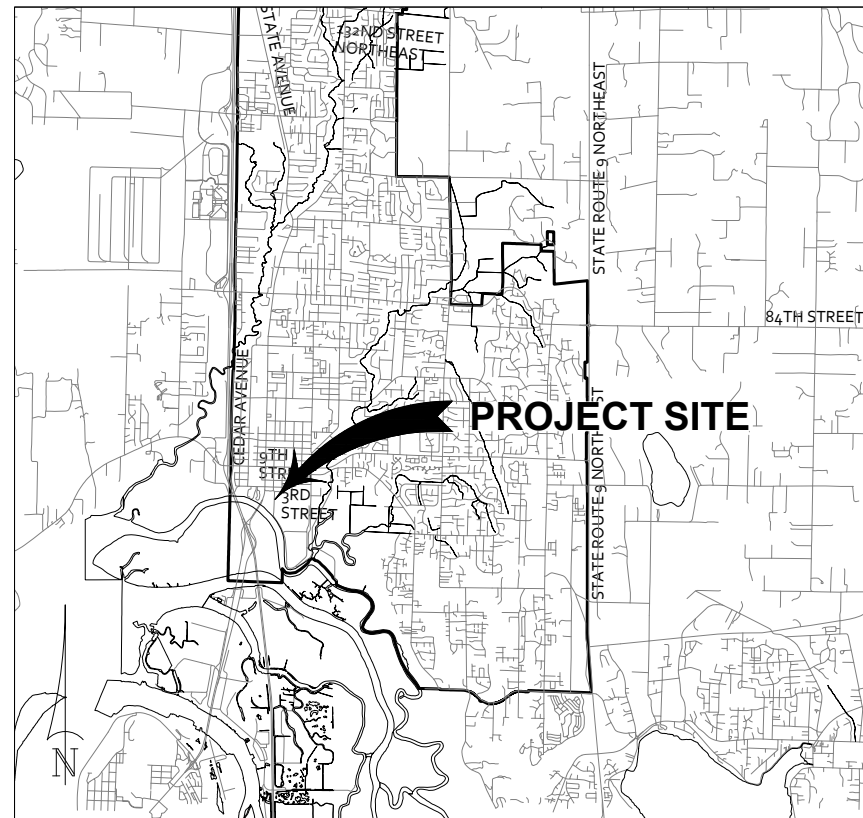
RECOMMENDED FOR APPROVAL:

TRAFFIC ENGINEER PROJECT ENGINEER

CONSTRUCTION MANAGER MAINTENANCE SUPERINTENDENT

APPROVED BY:

DIRECTOR CITY ENGINEER



VICINITY MAP
N.T.S.

SHEET INDEX

SHEET TITLE	DRAWING #	SHEET #
COVER	-	-
LEGEND AND ABBREVIATIONS	LG1	1
TESC PLAN	SP1	2
GRADING AND DRAINAGE PLAN	GR1	3

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SEC. 33, T. 30 N, R. 5 E, W.M.

WATER SYMBOLS

Table of water symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for CAP/PLUG, COUPLING, GUARD POST, REDUCER, THRUST BLOCKING, WATER METER, FIRE HYDRANT, MECHANICAL JOINT, PUSH-ON/HUB, THREAD, AIR RELIEF VALVE, BLOW-OFF VALVE, BUTTERFLY VALVE, CHECK VALVE, GATE/GENERAL VALVE, PLUG VALVE.

GAS/POWER/TELEPHONE SYMBOLS

Table of gas/power/telephone symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for GAS METER, GAS VALVE, PAD MOUNTED TRANSFORMER, POWER VAULT, TRANSMISSION TOWER, UTILITY POLE, UTILITY POLE ANCHOR, TELEPHONE RISER, TELEPHONE VAULT.

SURVEY SYMBOLS

Table of survey symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for ANGLE POINT, BENCH MARK, BLOCK CORNER, IRON PIPE, MONUMENT, OWNERSHIP TIE, SECTION CENTER, SECTION CORNER, QUARTER CORNER, SIXTEENTH CORNER, CLOSING CORNER, MEANDER CORNER, WITNESS CORNER, SOIL BORING/POTHOLING, SPOT ELEVATION, TAX LOT/PARCEL NUMBER.

SIGNALIZATION SYMBOLS

Table of signalization symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for AERIAL DISCONNECT, AERIAL TERMINAL COMPARTMENT, DIPOLE DETECTOR, QUADRAPOLE DETECTOR, ROUND LOOP DETECTOR, PEDESTRIAN DETECTOR, INDICATOR LIGHT, OPTICOM SENSOR, FLASHING WARNING SYSTEM, JUNCTION BOXES, PEDESTRIAN PUSHBUTTON POST, PEDESTRIAN SIGNAL HEAD, SIGNAL POLE NOTE, R/R CROSSING GATE, R/R CROSSING SIGNAL, SIGNAL CONTROLLER, SIGNAL LOAD CENTER, STREET LIGHT ASSEMBLY, TRAFFIC SIGN-BRIDGE, TRAFFIC SIGN-CANTILEVERED, TRAFFIC SIGN-SINGLE POST, TRAFFIC SIGN-DOUBLE POST, TRAFFIC SIGNAL POLE, TRAFFIC SIGNAL POLE W/ LUMINAIRE, TRAFFIC SIGNAL SUPPORT POLE, VEHICLE SIGNAL HEAD, VEHICLE SIGNAL HEAD W/ ARROW INDICATOR, WIRE NOTE.

SANITARY/STORM SEWER SYMBOLS

Table of sanitary/storm sewer symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for SANITARY SEWER CLEAN OUT, SANITARY SEWER MANHOLE, STORM DRAIN CATCH BASIN, STORM DRAIN CULVERT, STORM DRAIN MANHOLE, ENERGY DISSIPATOR, OVERFLOW STRUCTURE.

CHANNELIZATION SYMBOLS

Table of channelization symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for BIKE PATH, HANDICAP SYMBOL, H.O.V. LANE SYMBOL, ONLY, RAILROAD CROSSING, SCHOOL, STOP, STRAIGHT ARROW, LT.RT.STR. ARROW, LEFT-RIGHT ARROW, 2-WAY LEFT TURN, LEFT TURN ARROW, RIGHT TURN ARROW, LEFT-STRAIGHT ARROW, RIGHT-STRAIGHT ARROW, LANE MARKER TYPE I, LANE MARKER TYPE II.

SURFACE FEATURES/LANDSCAPING

Table of surface features/landscaping symbols with columns for SYMBOL, EXIST., PROP., and DESCRIPTION. Includes symbols for BUS STOP, EMBANKMENT, MAIL BOX, RIP RAP, ROCKERY, SHRUB, SIGN, TREE (CONIFER), TREE (DECIDUOUS), FENCE POST, CURB RAMP, YARD LIGHT.

ABBREVIATIONS

Table of abbreviations with columns for SYMBOL and DESCRIPTION. Lists various abbreviations such as ADJ, ALIGN, ALT, AP, APPROX, ASPH, AVE, AVG, BM, BOT, BTWN, CB, CB1, CB2, CG, C/L, CL, C, COM, CONC, CONN, CONST, CONT, DET, DWG, E, EA, EL, EX, EXIST, FH, FT, G, GE, GV, HORIZ, HPS, HT, IE, IN, INT, INTX, K, L, LB, LBS, LF, LT, LUMIN, MAX, MB, MH, MIN, MON, N, NA, NAD, NAVD, NO, NTS, OPP, PC, PT, PVC, PVI, PVM, PVT, R, REF, RR, RT, R/W, ROW, S, SD, SEC, SLJB, SPEC, STD, STLT, SR, SS, ST, STA, S/W, T, TOC, TV, UTIL, VERT, W, W/, WA, WM.

LINETYPES

Table of linetypes with columns for LINETYPE and DESCRIPTION. Shows various line styles for SURFACE FEATURES, SURVEY, UTILITIES (EXISTING), UTILITIES (PROPOSED), and CUSTOM.

PA23031 PERMIT SUBMITTAL REVISION 3/12/2024

Mar 12, 2024 - 2:55pm mlskry/cad/cas X:\Marysville, City of Projects\20230034 - Marysville Riverwalk\CA\DD02 - Plan Sheets\20230034-LG.dwg Layout Name: LG1

PERTEET logo and contact information: 2707 COLBY AVENUE, SUITE 900 EVERETT, WA 98201 425.252.7700 | 800.615.9900

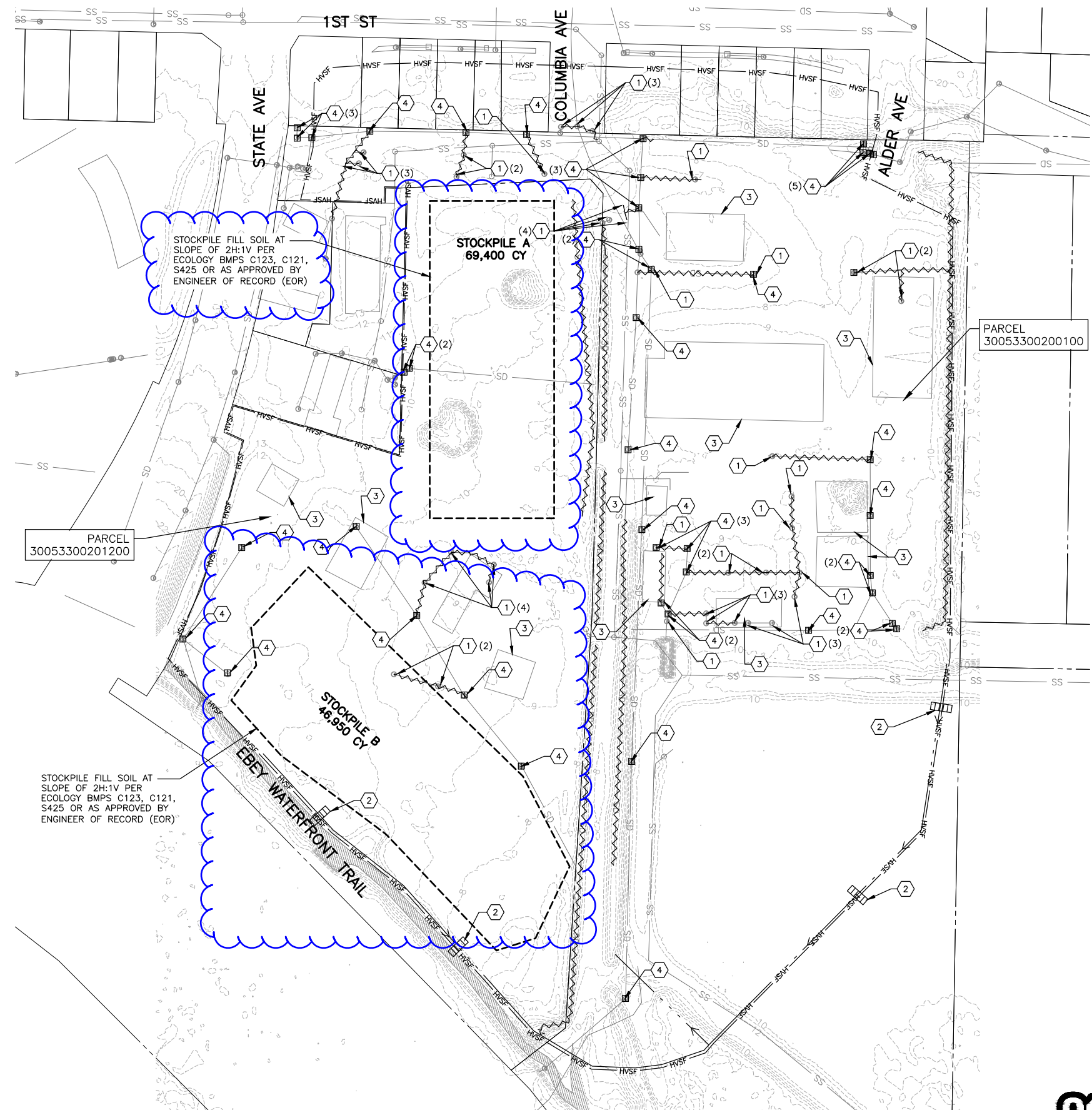
811 logo with text: Know what's below. Call before you dig.

Professional Engineer seal for KERN CAMERON MOGEE, State of Washington, License No. 210059714.

Table with columns for Drawn By, Date, Designed By, Checked By, Approved By.

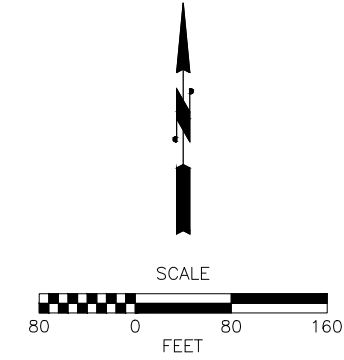
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SEC. 33, T. 30 N, R. 5 E, W.M.



CONSTRUCTION NOTES:

- ① ABANDON EXISTING MANHOLE OR CATCH BASIN.
- ② INSTALL ROCK CHECK DAMS AT FLOWLINE OF DITCH, PER CITY OF MARYSVILLE STANDARD PLAN 4-040-013.
- ③ BUILDING DEMOLITION BY OTHERS.
- ④ INSTALL INLET PROTECTION.



LEGEND:

- INLET PROTECTION
- HIGH VISIBILITY SILT FENCE
- GENERAL NOTE #3
- PROPOSED FLOWLINE
- CHECK DAM
- EXISTING CATCH BASIN

GENERAL NOTES:

1. ALL NEW CATCH BASINS WHICH WILL RECEIVE SURFACE FLOW PRIOR TO PROJECT COMPLETION SHALL BE PROVIDED WITH INLET PROTECTION.
2. ALL CATCH BASINS WITH GRATED LIDS LOCATED DOWN GRADIENT WITHIN 500' OF THE PROJECT LIMITS SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES. THIS INCLUDES CATCH BASINS LOCATED ON PRIVATE PROPERTY.
3. ABANDON EXISTING PIPES INDICATED BY ZIGZAG LINE, REMOVE IF NECESSARY.
4. CONTRACTOR TO CONSTRUCT SEDIMENT TRAPS PER ECOLOGY BMP C240 AS NEEDED TO ASSIST INLET PROTECTION WITH SEDIMENT CONTROL.

STOCKPILE FILL SOIL AT SLOPE OF 2H:1V PER ECOLOGY BMPS C123, C121, S425 OR AS APPROVED BY ENGINEER OF RECORD (EOR)

STOCKPILE A
69,400 CY

STOCKPILE B
46,950 CY

STOCKPILE FILL SOIL AT SLOPE OF 2H:1V PER ECOLOGY BMPS C123, C121, S425 OR AS APPROVED BY ENGINEER OF RECORD (EOR)

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PARCEL
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2	3/12/24	REVISION 2 TO PERMIT SUBMITTAL	MC	PB
No.	Date	Revision	By	Appr.

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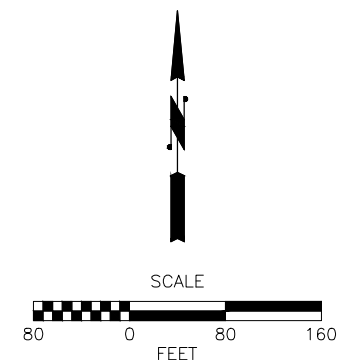
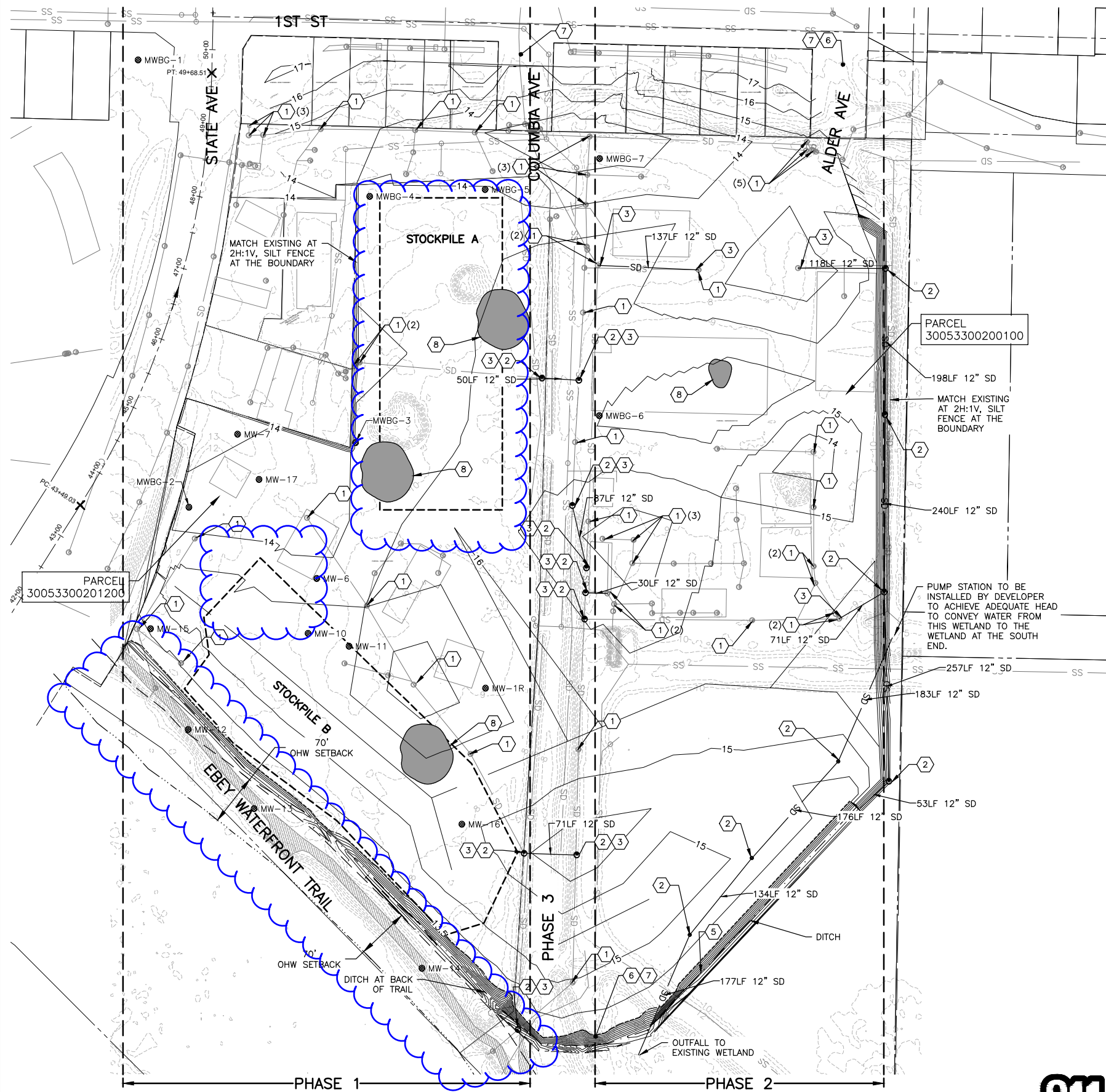
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Know what's below.
Call before you dig.



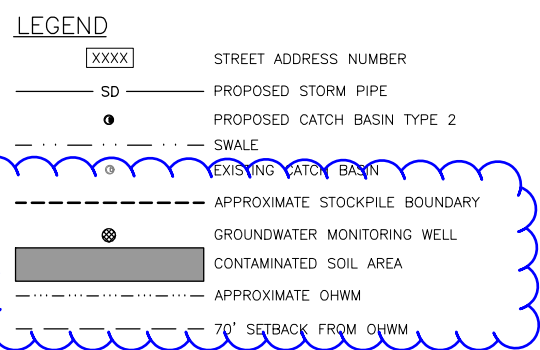
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MC	2/14/2024
Designed By	
NH	2/14/2024
Checked By	
KM	2/14/2024
Approved By	
	2/14/2024

PA23031 PERMIT SUBMITTAL REVISION 3/12/2024	
CITY OF MARYSVILLE MARYSVILLE RIVERWALK	
TESC PLAN	
Drawing No.	SP1
Sheet No.	2 of 3
Project Number	20230034

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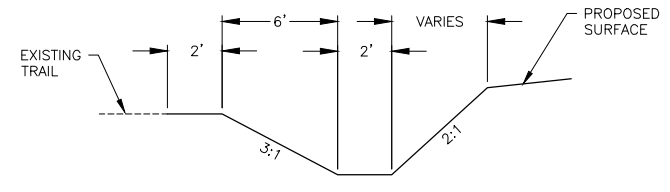


- CONSTRUCTION NOTES:**
- 1 ADJUST MANHOLES AND CATCH BASINS TO GRADE.
 - 2 CATCH BASIN TYPE 2 PER CITY OF MARYSVILLE STANDARD PLAN 4-080-009.
 - 3 CONNECT TO EXISTING DRAINAGE STRUCTURE.
 - 4 INSTALL SOLID COVER PER CITY OF MARYSVILLE STANDARD PLAN 4-080-024.
 - 5 DITCH PER DETAIL ON THIS SHEET.
 - 6 MAINTAIN VEHICLE INGRESS/EGRESS FROM ALDER TO WWTP ACCESS ROAD THROUGHOUT CONSTRUCTION.
 - 7 INSTALL CONSTRUCTION ENTRANCE.
 - 8 AREA OF KNOWN CONTAMINATED SOIL. CITY TO TEST, CONTRACTOR TO EXCAVATE AND DISPOSE.



- GENERAL NOTES**
1. ALL PROPOSED CATCH BASINS SHALL HAVE VANED GRATES PER CITY OF MARYSVILLE STANDARD PLAN 4-080-016 UNLESS OTHERWISE NOTED.
 2. ALL EXCAVATED SOILS TO BE SEGREGATED FOR SCREENING FOR CONTAMINANTS.
 3. ALL EXISTING FEATURES ARE FROM PUBLICLY AVAILABLE GIS DATA.
 4. ALL COMPACTED SURFACES SHALL BE TEMPORARILY MULCHED AND HYDROSEEDING WHEN WEATHER ALLOWS (SPRING OR FALL).
 5. ALL COMPACTED SURFACES SHALL BE PER WSDOT STANDARD SPECIFICATION 2-03.3(14)C METHOD B.
 6. ALL FILL SOIL TO BE DELIVERED AND PLACED OR STOCKPILED BY DEC. 15, 2025.

- PHASING NOTES**
- PHASE 1: DEMOLISH BUILDINGS AND FILL TO PROPOSED GRADE WEST OF COLUMBIA AVE, AND SLOPE DOWN TO COLUMBIA AVE.
- PHASE 2: DEMOLISH PUBLIC WORKS FACILITIES, FILL TO PROPOSED GRADE EAST OF COLUMBIA AVE, AND SLOPE DOWN TO COLUMBIA AVE.
- PHASE 3: FILL IN COLUMBIA AVE, AND ADJUST UTILITIES AS NECESSARY.



DITCH DETAIL
N.T.S.

**PA23031 PERMIT SUBMITTAL
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No.	Date	Revision	By	Appr.
1	2/14/24	REVISION 1 TO PERMIT SUBMITTAL	NH	PB
2	3/12/24	REVISION 2 TO PERMIT SUBMITTAL	MC	PB

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Drawn By	MC	Date	2/14/2024
Designed By	NH	2/14/2024	
Checked By	KM	2/14/2024	
Approved By		2/14/2024	

CITY OF MARYSVILLE
MARYSVILLE RIVERWALK

GR1

Sheet No. 3 of 3

GRADING AND DRAINAGE PLAN