MUKILTEO RIDGE HOMEOWNERS ASSOCIATION STEEP SLOPE RESTORATION PARCEL #28-0403-0030-3200



PLAN VIEW

Scale: 1" = 10'

MUKILTEO, WASHINGTON

- EXISTING WETLAND PER WETLAND BIOLOGIST GIS DATA

PROPOSED GABION

AREA OF SURVEY AS PROVIDED BY CLIENT

BABION DISSAPATER

RE-BUILD EX GABION STRUCTURE TO PROVIDE SOLID FOUNDATION

GABION STRUCTURE

EXISTING STORM PIPE TO BE REROUTED AND ANCHORED

ADD HERE



PROJECT OWNER

MUKILTEO RIDGE HOMEOWNERS ASSOCIATION PARCEL #28-0403-0030-3200 MUKILTEO, WA (425) 315-5425 CONTACT: TARVINDER AND SUMAN HARA

CIVIL ENGINEER

COFFMAN ENGINEERS, INC. 1101 SECOND AVENUE, SUITE 400 SEATTLE, WA 98101 (206) 623-0717 CONTACT: GWENDOLYN (WENDY) MCHUGH, P.E.

ENVIRONMENTAL ENGINEER

WETLAND RESOURCES, INC. 9505 19TH AVE SE, SUITE 106 EVERETT, WA 98208 (425) 337-3174 CONTACT: JEFF MALLAHAN

GEOTECHNICAL ENGINEER

AMERICAN GEOSERVICES 24 ROY STREET #343 SEATTLE,WA 98109 206-317-1787

SURVEYOR

ORCA LAND SURVEYING 3605 COLBY AVENUE EVERETT, WA 98201 (425) 259-3400 CONTACT: JOANNE M SWANSON, PLS

BENCHMARK

FOUND CASED, 4"x4" CONC. MON. WITH 1 1/4" BRASS DISK "GP31525 1997, 133", DN. 1.6', ELEV= 10.89 VERTICAL DATUM NAVD88 (STATE PLANE COORDINATES CONVERSION TO PROJECT DATUM THE STATE PLAN COORDINATES DIVIDED BY THE AVERAGE COMBINED SCALE FACTOR OF 0.999941845)

(WGS# 1672 DATA SHEET REFERENCED) HORIZONTAL: GEODETIC GPS (NAD 1983/91) VERICAL METHOD: DIFFERENTIAL VERTICAL CALC BY: WSDOT HORIZONTAL DATA SHEET ARE SHOWN AT GRID

PLAN NOTE:

THE EXISTING BOUNDARY, TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON THE TOPOGRAPHIC SURVEY TITLED " TOPOGRAPHIC SURVEY FOR MUKILTEO RIDGE HOA", PREPARED BY ORCA LAND SURVEYING, DATED 3/12/2019





Received by Email 2022-02-25

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE INSTALLATION OF A GRAVITY GABION RETAINING WALL TO PROTECT THE SLOPE FROM FUTURE SLOPE FAILURES, AND TO RE-ANCHOR THE EXISTING DRAINAGE PIPE TO PROTECT THE SLOPE.



ph 206.623.0717

www.coffman.com

MUKILTEO RIDGE HOMEOWNERS ASSOCIATION MUKILTEO, WASHINGTON

STEEP SLOPE RESTORATION PARCEL #28-0403-0030-3200

PERMIT SET

SITE

Revisions

Key Plan

Sheet Title COVER SHEET AND OVERALL SITE PLAN

| Scale: | 1" = 10' |
|-----------------|------------|
| CEI Project No: | 181908 |
| Date: | 02/25/2022 |
| Designed: | GMM |
| Drawn: | MG |
| Checked: | GMM |
| | |

Sheet Number

C1.0



MICROSOFT PRODUCT SCREEN SHOT REPRINTED WITH PERMISSION FROM MICROSOFT CORPORATION.

VICINITY MAP



| INDEX OF DRAWINGS | | |
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| DRAWING NUMBER | NAME | |
| C1.0 | COVER SHEET AND OVERALL SITE PLAN | |
| C1.1 | NOTES AND ABBREVIATIONS | |
| C1.2 | UTILITY NOTES | |
| C2.0 | TEMPORARY EROSION CONTROL PLAN | |
| C2.1 | DETAILS | |
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| C4.2 | WALL PROFILE | |



Know what's below. Call before you dig.

GENERAL NOTES

- 1. STANDARD SPECIFICATIONS WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. IF STANDARDS ARE NOT PROVIDED BY THE AUTHORITIES HAVING JURISDICTION, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST CURRENT VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL DEVELOPMENT GUIDELINES & DESIGN AND CONSTRUCTION STANDARDS, THE UNIFORM BUILDING CODES; PERMIT CONDITIONS; AND ALL OTHER APPLICABLE CODES, ORDINANCES, STANDARDS, AND POLICIES. THE STANDARD PLANS AND STANDARD SPECIFICATIONS (WSDOT/APWA) MAY BE OBTAINED FROM THE OFFICE OF PRE-CONTRACT ADMINISTRATION AT THE HIGHWAY ADMINISTRATION BUILDING, OLYMPIA, WASHINGTON 98504, OR BY TELEPHONE ORDER: (360) 705-7835.
- PRE-CONSTRUCTION MEETING A PRE-CONSTRUCTION MEETING MAY BE REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE, UTILITY SERVICE PROVIDERS AND/OR AUTHORITIES HAVING JURISDICTION (AHJ). CONTRACTOR TO COORDINATE WITH THESE PARTIES AND SCHEDULE PRE-CONSTRUCTION MEETINGS AS REQUIRED.
- 3. GEOTECHNICAL INFORMATION A GEOTECHNICAL REPORT WAS PREPARED BY AMERICAN GEOSERVICES, DATED APRIL 18, 2018, PROJECT #: 0178-WA17. THIS REPORT SHALL BE REFERENCED FOR ANY INQUIRY RELATING TO THE CONSTRUCTION OF ELEMENTS ON OR BENEATH THE SOILS UNDERLYING THE PROJECT SITE.
- SURVEY AND TOPOGRAPHY THE EXISTING BOUNDARY, TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON THE SURVEY PREPARED BY ORCA LAND SURVEYING, RECEIVED MARCH 12, 2019.
- SURVEY MONUMENTS EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 6. EXISTING CONDITIONS INFORMATION ON EXISTING CONDITIONS AND BOUNDARIES/RIGHT OF WAY SHOWN ON THESE PLANS WAS OBTAINED FROM A SURVEY NOT PERFORMED BY COFFMAN ENGINEERS. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE, AND VERIFY THE LOCATION AND SIZE OF EXISTING UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITIES, INCLUDING UNDERGROUND AND OVERHEAD UTILITIES, UTILITY STRUCTURES, POINTS OF CONNECTION, AND UTILITY CROSSINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR EXCEPTIONS ENCOUNTERED PRIOR TO PROCEEDING. THE CONTRACTOR SHALL OBTAIN ADDITIONAL UTILITIES INFORMATION FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL COORDINATE WITH THE PUBLIC AND PRIVATE UTILITIES TO DETERMINE THE WORK AND INSPECTIONS NECESSARY TO DISCONNECT, CUT, CAP, ABANDON, RELOCATE, OR REPAIR THEIR FACILITIES. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS, PRIOR TO BEGINNING CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.
- 7. UTILITY LOCATION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THESE DRAWINGS. PRIOR TO STARTING CONSTRUCTION, CONTACT ONE-CALL, (1-800-424-5555) FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE STARTING PROJECT SITE WORK, NOTIFY THE UTILITIES INSPECTOR AT 206-433-0179. REQUEST A PUBLIC WORKS UTILITY INSPECTION AT LEAST 24 HOURS IN ADVANCE BY CALLING 206-433-0179. CONTRACTOR TO LOCATE AND DETERMINE DEPTH OF EXISTING UTILITIES, AND THE ENGINEER OF ANY CONFLICTS BETWEEN EXISTING FEATURES AND THE PLACEMENT OF NEW FACILITIES.
- 8. FIELD VERIFICATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATION OF ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.
- 9. DRAWINGS A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, REFERENCES, AND TYPICAL DETAILS OF CONSTRUCTION. NOT EVERY DETAIL OF THE CONSTRUCTION IS SHOWN ON THESE DRAWINGS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL REVIEW THE DRAWINGS PRIOR TO STARTING CONSTRUCTION AND BRING ALL PROBLEMS IMMEDIATELY TO THE ATTENTION OF THE ENGINEER IN ORDER TO AVOID DELAYS.
- 10. ELECTRONIC CAD FILES AN ELECTRONIC CAD VERSION OF THIS PLAN SET IS AVAILABLE FROM COFFMAN ENGINEERS, UPON REQUEST.
- 11. ADDITIONAL DOCUMENTS REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION OF STRUCTURES, ENCLOSURES, STAIRS, SIDEWALKS/PATHS, LANDINGS/PATIOS, FENCING, RAILING, AND GATES.
- 12. RECORD DRAWINGS RECORD DRAWINGS IDENTIFYING AND ACCURATELY LOCATING SUBSURFACE UTILITIES AND IMPROVEMENTS AND NOTING AS-CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
- 13. JOB SITE SAFETY THE CONTRACTOR SHALL CONDUCT ALL WORK IN A SAFE MANNER AS REQUIRED BY ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS. THE ENGINEER HAS NOT BEEN RETAINED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS, OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM THEIR WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL NOT BE CONSTRUED AS THE SUPERVISION OF ACTUAL CONSTRUCTION, NOR MAKE THE ENGINEER RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES OR EMPLOYEES OF SUPPLIERS OR SUBCONTRACTORS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON. SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 14. WORKMANSHIP THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND IN CONFORMANCE WITH APPLICABLE CODES, REGULATIONS AND PERMIT REQUIREMENTS.
- 15. <u>LICENSURE</u> THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK IN CONFORMANCE WITH THE AUTHORITIES HAVING JURISDICTION.
- 16. TRAFFIC CONTROL & SAFETY THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL ON-SITE AND SHALL COORDINATE THEIR ACTIVITIES WITH THE OWNER AND ENGINEER A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE BEGINNING OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL SIGNS. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. SHUTDOWN OF OWNER OPERATION OR ACCESS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. COORDINATE REQUIREMENTS WITH THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL MAINTAIN ALL SIGNS, BARRICADES, WARNING LIGHTS, AND OTHER DEVICES NECESSARY FOR SAFETY.
- 17. PERMITTING THE CONTRACTOR SHALL OBTAIN ALL LOCAL, STATE AND FEDERAL PERMITS REQUIRED FOR THE WORK IN ADDITION TO THOSE OBTAINED BY THE OWNER. THE CONTRACTOR SHALL CONDUCT ALL WORK IN CONFORMANCE WITH THE VARIOUS LOCAL, STATE AND FEDERAL PERMITS AND APPROVALS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS.
- 18. PROTECTION OF PROPERTY THE CONTRACTOR SHALL PROTECT FROM DAMAGE OR DESTRUCTION TO PRIVATE AND PUBLIC PROPERTY ON OR IN THE VICINITY OF THE WORK THAT IS NOT SCHEDULED FOR REPAIR, REPLACEMENT OR REMOVAL, AND SHALL ENSURE THAT INTERFERENCE WITH THE USE OF SUCH PROPERTY IS MINIMIZED.
- 19. DAMAGE DURING CONSTRUCTION ANY EXISTING PUBLIC OR PRIVATE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN A MATTER TO BE APPROVED BY THE LOCAL JURISDICTION, APPROPRIATE UTILITY OWNER OR OWNER. IF ROADWAY PAVEMENT MUST BE BROKEN, THE LOCAL TRANSPORTATION DEPARTMENT WILL EITHER REPAIR THE STREET AND BILL THE CONTRACTOR FOR THIS WORK, OR ALLOW THE CONTRACTOR TO COMPLETE THESE REPAIRS TO THEIR STANDARDS. ALL DISTURBED PROPERTY AND VEGETATION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS SPECIFIED.
- 20. STAKING CONSTRUCTION STAKING FOR CURB AND GUTTER, PAVEMENT GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE PROVIDED BY A SURVEYING OR ENGINEERING FIRM CAPABLE OF PERFORMING SUCH WORK.

- THAN 4-FEET MUST BE SHORED, SHEETED, BRACED, SLOPED, OR SUPPORTED BY A MEANS OF EXCAVATIONS DEEPER THAN 20-FEET MUST INCLUDE A PROTECTION SYSTEM DESIGNED BY A REQUIRED TO PREVENT THE MATERIAL FROM FALLING OR ROLLING INTO THE EXCAVATION. WHEN SET UP FOR PUBLIC SAFETY, AND THE EXCAVATION MUST BE COVERED WHEN WORK IS NOT IN PROGRESS.
- CONCEPTUAL DESIGN INFORMATION ONLY. ALL VERTICAL SHORING WALLS REQUIRED FOR THE OF WASHINGTON. ALL EXCAVATION AND SHORING SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER AND SHALL CONFORM TO THE REGULATIONS ESTABLISHED BY PERTINENT STATE AND METHODS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF EXISTING SITE FEATURES.
- 23. EXCAVATION SPOILS ALL EXCAVATION SPOILS SHALL BE DISPOSED OF AT AN APPROVED OFFSITE
- 24. ENVIRONMENTAL PROTECTION EROSION CONTROL MEASURES SEPARATE FROM THOSE SPECIFIED AS PART OF THIS PLAN SET MAY BE REQUIRED FOR ADDITIONAL IMPLEMENTATION DUE TO FUTURE, AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE THAT THE PRESCRIBED OWNER.

TEMPORARY EROSION & SEDIMENT CONTROL NOTES

- OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT THE PLACE.
- TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THIER ACTIVITIES AND TO PROVIDE ADJACENT PROPERTIES AND WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
- MANUAL FOR WESTERN WASHINGTON AND THE APPROVED SWPPP.
- MEANS AND METHODS AND SEQUENCING OF TESC MEASURES AND ENSURING WATER QUALITY REQUIREMENTS ARE MET.
- OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.
- BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF ORANGE PROTECTION FENCING PRIOR TO ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- - CONSTRUCTION ENTRY BMP;
 - CONTROL BEST MANAGEMENT PRACTICE MEASURES (BMPS);
 - STEPS PRIOR TO GRADING;

 - CLEAR, GRUB AND GRADE SUBJECT SITE;
 - SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
 - UNDERGROUND INJECTION CONTROL (UIC) FACILITIES, ETC.);
 - PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
- INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
- REMOVE TEMPORARY ESC CONTROLS WHEN:
- PROBLEMS HAVE CEASED; AND,
- VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
- UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
- CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
- SEDIMENT DEPOSITION AND RUNOFF.

21. EXCAVATION & BACKFILL - SAFE EXCAVATION & BACKFILL PRACTICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO REGULATIONS ESTABLISHED BY PERTINENT STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN SAFETY SYSTEMS THAT MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (RCW CHAPTER 49.17, INCLUDING WAC CHAPTER 296-155). EXCAVATIONS DEEPER SUFFICIENT STRENGTH TO PROTECT EMPLOYEES AND BE IN ACCORDANCE WITH WAC 296-155, PART N. PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF WASHINGTON IN ACCORDANCE WITH WAC 296-155-657. EXCAVATION MATERIALS ARE TO BE STORED AT LEAST 2-FEET FROM THE EDGE OF THE EXCAVATION OR TRENCH WHEN EMPLOYEES ARE WORKING IN THE EXCAVATION. SITE DEVICES MAY BE TRENCHES OR OTHER EXCAVATIONS ARE WITHIN 4-FEET OF PUBLIC PROPERTY, BARRICADES MUST BE

22. EXCAVATION AND SHORING - ANY EXCAVATION & SHORING SHOWN WITHIN THIS PLAN SET IS FOR BUILDING EXCAVATION SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES. ALL SHORING MEASURES AND EXCAVATION WASHINGTON. EXCAVATION AND SHORING MEASURES ARE NOT SHOWN ON THESE PLANS, BUT WILL BE REQUIRED TO ENSURE A SAFE WORKING ENVIRONMENT AND TO PROTECT NEIGHBORING PROPERTIES &

LOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON DISPOSAL OF EXCAVATION SPOILS

UNFORESEEN WEATHER OR SITE CONDITIONS, OR IF THE PRESCRIBED MEASURES DO NOT FUNCTION MEASURES ARE INADEQUATE. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA AT ALL TIMES BY SWEEPING. WASHING OF PAVEMENT WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE

SCHEDULE - ALL REQUIRED SEDIMENTATION / EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS AND ADJACENT PROPERTIES IS PREVENTED. THE TESC FACILITIES SHALL BE MAINTAINED UNTIL PERMANENT EROSION CONTROL (PAVING, STRUCTURE, RE-VEGETATION WITH TREES, SHRUBS, GROUND COVER, ETC.) PER THE APPROVED PLANS IS IN

IMPLEMENTATION - THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE TESC FACILITIES IN COORDINATION WITH THE APPROVED PLANS AND/OR SWPPP IS THE RESPONSIBILITY OF THE CONTRACTOR / TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED AND SITE IS PERMANENTLY STABILIZED. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT

INSPECTIONS BY CONTRACTOR - THE TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING UNTIL ALL CONSTRUCTION IS APPROVED AND THE SITE HAS STABILIZED.

BEST MANAGEMENT PRACTICES (BMPS) - ALL TESC FACILITIES SHALL CONFORM TO THE BEST MANAGEMENT PRACTICES LISTED IN THE CURRENT EDITION OF THE DEPARTMENT OF ECOLOGY STORMWATER MANAGMENT

MINIMUM REQUIREMENTS - THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THESE DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE. THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL

APPROVALS - APPROVAL OF THIS TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES. RESTRICTORS. CHANNELS. RETENTION FACILITIES. UTILITIES. ETC.). BUT IS AN APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLANS ONLY. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING

CLEARING LIMITS / LIMITS OF WORK - THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR / TESC SUPERVISOR UNTIL

CONSTRUCTION SEQUENCE - THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL (ESC) PROBLEMS:

STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE

CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT

INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST

CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;

TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, SUBJECT SITE IN

CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (SUCH AS INLETS, PONDS.

PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;

ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION

EXISTING VEGETATED AREAS - RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN

10. DUST CONTROL - CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE

ADJACENT PROPERTIES - ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM

- 12. DEWATERING DESIGN, PREPARE AND OBTAIN PERMITS FOR TEMPORARY DEWATERING. TREAT AND DISPOSE OF WATER FROM TEMPORARY DEWATERING FACILITIES IN ACCORDANCE WITH AHJ.
- 13. STREET INSPECTION & CLEANING INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, IMMEDIATE CLEANING IS REQUIRED. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
- 14. CONCRETE BY-PRODUCTS PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS EITHER NEAR OR INTO NATURAL OR CONSTRUCTED STORM DRAINAGE SYSTEMS. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM DRAINAGE SYSTEM, IT COULD MEAN RECLEANING THE ENTIRE DOWNSTREAM SYSTEM, OR POSSIBLY RELAYING THE STORM LINE.
- 15. SOURCE CONTROL OF CONSTRUCTION DEBRIS & CHEMICALS APPLICABLE SOURCE CONTROL MEASURES PER THE CURRENT EDITION OF THE WASHINGTON DEPARTMENT OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON SHALL BE IMPLEMENTED DURING CONSTRUCTION. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 OF THE WASHINGTON ADMINISTRATIVE CODE (WAC) FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
- 16. VEHICLE MAINTENANCE CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT/DE-GREASING OPERATIONS, FUEL TANK DRAIN-DOWN/REMOVAL, IN ADDITION TO OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF, BY USING SPILL COLLECTION DEVICES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT, AND DISPOSE OF CONTAMINATED MATERIALS PER LOCAL REGULATIONS. IF RAINFALL OCCURS ON EQUIPMENT OR VEHICLE WITH RECENT CONTAMINANT LEAK, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE THAT COLLECTS ALL CONTAMINATED RUNOFF.
- 17. CHEMICAL CONTROL & APPLICATION CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBIT THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE IN-SITU BMPS.
- STABILIZATION OF DISTURBED AREAS ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED WITH MULCHING, GRASS PLANTING, PLASTIC COVERING OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE EXPOSED SOIL CONDITIONS AND THE TIME OF YEAR IN QUESTION. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THRU SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE CONTRACTOR, BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT AS APPROVED BY THE LOCAL JURISDICTION.
- 19. TEMPORARY STOCKPILES TEMPORARY STOCKPILES SHALL BE STABILIZED WITH MULCHING, GRASS PLANTING, POLYETHYLENE SHEETING, OR OTHER APPROVED MEASURES. THE TOE OF ALL STOCKPILES SHALL HAVE A FILTER FABRIC FENCE TO PROTECT ADJACENT PROPERTIES FROM SEDIMENTATION AND EROSION AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2H:1V SLOPE.
- 20. CONSTRUCTION ENTRANCE THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY CONSTRUCTION ENTRANCE IN CONFORMANCE WITH THE DETAIL INCLUDED IN THIS PLAN SET. MATERIAL SHALL BE QUARRY SPALLS, 4 INCHES TO 8 INCHES IN SIZE. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. CONSTRUCTION EQUIPMENT SHALL BE CLEANED OF ALL DIRT AND DEBRIS BEFORE ENTERING THE PUBLIC STREET.
- SILT FABRIC FENCE SILT FABRIC FENCES SHALL BE CONSTRUCTED ALONG THE DOWNSLOPE EDGES OF THE CONSTRUCTION SITE AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE SITE HAS STABILIZED. REGULAR INSPECTIONS SHALL BE MADE TO ENSURE THAT THE FENCE IS FUNCTIONING PROPERLY, AND ADDITIONAL INSPECTIONS SHALL BE MADE AFTER EACH LARGE RUNOFF PRODUCING STORM AND DURING PROLONGED RAINFALL PERIODS. TRAPPED SEDIMENT SHALL BE REMOVED WHEN IT REACHES APPROXIMATELY ONE QUARTER THE HEIGHT OF THE FENCE. THE WASHED GRAVEL BACKFILL SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS RENDERED NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART, AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES, WHERE POSSIBLE. FILTER FABRIC JOINTS SHALL BE MADE ONLY AT A SUPPORT POST. WITH A 6 INCH MINIMUM OVERLAP. WITH BOTH ENDS SECURELY FASTENED TO THE POST.
- 22. STORM DRAIN INLET PROTECTION ANY CATCH BASINS, INLETS, OR TRENCH DRAINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE STORM DRAIN INLET PROTECTION PER THE CATCH BASIN INSERT DETAIL SHOWN ON THIS PLAN SET. INSERTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THAT ALL CONSTRUCTION IS APPROVED AND THE SITE HAS BEEN STABILIZED.
- 23. SEDIMENT ACCUMULATION AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A SEDIMENT FILTER THAT IS INSTALLED WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING ACTIVITIES. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM. ACCUMULATED SEDIMENTS SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE LOCAL JURISDICTION. ALL CATCH BASINS AND SEDIMENT FILTERS SHALL BE INSPECTED FOR COMPLIANCE DAILY AND WITHIN 24 HOURS OF A RAINFALL EVENT.

DEMOLITION NOTES

- 1. CLEARING, GRUBBING & DEMOLITION ALL CLEARING, GRUBBING AND DEMOLITION SHALL BE PERFORMED IN CONFORMANCE TO THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE CURRENT EDITION OF THE UNIFORM BUILDING CODE. THE STRIPPED DEBRIS SHALL NOT BE MIXED WITH MATERIALS TO BE USED AS STRUCTURAL FILL. CONDUCT DEMOLITION ACTIVITIES AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKWAYS, AND OTHER ADJACENT FACILITIES.
- HAZARDOUS MATERIALS IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND OWNER.
- 3. EXISTING VEGETATION REMOVE TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION AND TREE REMOVAL PROCEDURES TO PRESERVE HEALTH OF ADJACENT TREES.
- DISPOSAL REMOVE DEMOLITION WASTE MATERIALS AND DEBRIS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- 5. DEMOLITION & DISPOSAL THE REMOVAL AND DISPOSAL OF ALL FOUNDATIONS, STRUCTURES, PIPING, FENCES, AND OTHER OBSTRUCTIONS SHALL BE DONE IN ACCORDANCE WITH SECTION 2-02 OF THE APWA/WSDOT STANDARD SPECIFICATIONS.
- 6. PROTECTION OF PROPERTY THE CONTRACTOR SHALL PROTECT FROM DAMAGE OR DESTRUCTION PRIVATE AND PUBLIC PROPERTY ON OR IN THE VICINITY OF THE WORK THAT IS NOT SCHEDULED FOR REPAIR, REPLACEMENT OR REMOVAL AND SHALL ENSURE THAT INTERFERENCE WITH THE USE OF SUCH PROPERTY IS MINIMIZED.
- REMOVAL OF STRUCTURES & OBSTRUCTIONS THE REMOVAL AND DISPOSAL OF ALL BUILDINGS, FOUNDATIONS, STRUCTURES, FENCES, AND OTHER OBSTRUCTIONS SHALL BE DONE IN ACCORDANCE WITH SECTION 2-02 OF THE APWA/WSDOT STANDARD SPECIFICATIONS. REFER TO THE ARCHITECT'S PLANS & SPECIFICATIONS PRIOR TO ANY DEMOLITION WORK FOR DEMOLITION & DISPOSAL DETAILS.
- 8. EXISTING UTILITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANIES FOR SCHEDULING, DISCONNECTING, AND CAPPING OF THE EXISTING UTILITIES. EXISTING UTILITY WORK SHALL BE IN CONFORMANCE WITH SECTION 2-02 OF THE STANDARD SPECIFICATIONS. ALL CAPPED UTILITIES SHALL BE CLEARLY MARKED WITH AN ABOVE GRADE MARKER.

- 10. OWNER
- 11
- REQUIRED ITEMS.

GRADING AND PAVING NOTES

- NOT SUPERSEDE THIS REQUIREMENT.

- STRUCTURAL ENGINEER.
- WASHINGTON.

SAFETY FENCING - TEMPORARY 6' HIGH CHAIN LINK FENCE SHALL BE PLACED AROUND THE SITE AND/OR EXCAVATION AREA AS NECESSARY TO PROTECT PEDESTRIANS AND PROVIDE SITE SAFETY WHILE DEMOLITION AND CONSTRUCTION IS IN PROGRESS. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE PROTECTION MAY BE NECESSARY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSURE SAFETY OF THE PUBLIC AT ALL TIMES.

SALVAGE - TO THE MAXIMUM EXTENT POSSIBLE, THE CONTRACTOR SHALL SALVAGE AND REUSE ALL CATCH BASIN FRAMES, GRATES, COVERS, MANHOLE LIDS AND ANY OTHER EXISTING METAL WORKS IN PAVEMENTS DESIGNATED FOR REMOVAL / REPLACEMENT. ALL SALVAGEABLE MATERIAL CREATED DURING DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY HEREIN OR THE

REGULATORY COMPLIANCE - COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING CL DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. COORDINATE DEMOLITION OPERATIONS AND ANY REQUIRED UTILITY RELOCATIONS WITH THE OWNER AND APPROPRIATE UTILITY PURVEYOR, INCLUDING REQUIREMENTS AND SCHEDULING.

12. COORDINATION AND UNKNOWNS - COORDINATE EXTENT OF DEMOLITION WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REVIEW THE PROJECT LIMITS TO DETERMINE THE QUANTITY AND TYPE OF DEMOLITION WASTE MATERIAL AND DEBRIS TO BE INCLUDED IN THEIR BID. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, AND RELOCATING IF NECESSARY, ANY ITEMS NOT OTHERWISE NOTED THAT CONFLICT WITH THE DS CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DWY ANY CONFLICTING ITEMS NOT SHOWN ON THE PLANS THAT MUST BE REMOVED OR RELOCATED. FAILURE TO E NOTIFY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF COST RESPONSIBILITY FOR REMOVING

STANDARD PLANS AND SPECIFICATIONS - ALL GRADING AND PAVING MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST CURRENT VERSION OF THE STANDARD PLANS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, PREPARED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL JURISDICTION.

GRADING - FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM OF TWO (2) PERCENT SLOPE, PER THE UNIFORM BUILDING CODE. ANY GRADING WITHIN CRITICAL FF ROOT ZONE SHALL BE UNDER THE DIRECTION OF LANDSCAPE ARCHITECT.

MINIMUM SLOPE - ALL DRIVE AREAS SHALL HAVE POSITIVE DRAINAGE TO THE COLLECTION/CONVEYANCE SYSTEM AT 1% MINIMUM SLOPE FOR ASPHALT, 0.5% MINIMUM SLOPE FOR CONCRETE. PLAN DETAILS SHALL

EXCAVATION & BACKFILL - SAFE EXCAVATION, BACKFILL & BORROWING ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE WSDOT/APWA STANDARD SPECIFICATIONS AND TO REGULATIONS ESTABLISHED BY PERTINENT STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES.

COMPACTION - SUBGRADES SHALL BE PREPARED IN CONFORMANCE WITH DIVISION 2-06 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. STRUCTURAL FILL SHALL BE PLACED IN THIN HORIZONTAL LIFTS NOT EXCEEDING TWELVE (12) INCHES IN LOOSE THICKNESS. EACH LIFT MUST BE COMPACTED TO AT LEAST INL INV 95 PERCENT OF LABORATORY MAXIMUM DRY DENSITY, DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF THE SOIL AT THE TIME OF COMPACTION SHOULD BE WITHIN TWO PERCENT OF ITS OPTIMUM, AS DETERMINED BY ASTM D-698. IN NON-STRUCTURAL AREAS OR FOR BACKFILL IN UTILITY TRENCHES BELOW A DEPTH OF FOUR FEET, THE DEGREE OF COMPACTION MAY BE REDUCED TO 90 PERCENT. HAND OPERATED COMPACTION EQUIPMENT SHOULD BE USED WITHIN FIVE (5) FEET OF ALL STRUCTURES. REFER TO THE GEOTECHNICAL REPORT BY GEOTECH CONSULTANTS, INC. FOR MORE DETAILED INFORMATION.

STRUCTURAL FILL - SITE SOILS ARE NOT RECOMMENDED FOR STRUCTURAL FILL UNLESS IT IS INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL STRUCTURAL FILL SHALL BE FREE OF ORGANIC MATERIAL, DEBRIS, AND OTHER DELETERIOUS MATERIALS. STRUCTURAL FILL SHALL CONSIST OF FREE-DRAINING IMPORTED PIT RUN SAND AND GRAVEL, OR AN EQUIVALENT APPROVED MATERIAL. REFER PM TO THE SOILS REPORT FOR FURTHER SPECIFICATIONS.

CUT & FILL SLOPES - NO FINAL CUT OR FILL SLOPE SHALL EXCEED SLOPES OF TWO (2) HORIZONTAL TO ONE POC (1) VERTICAL WITHOUT STABILIZATION BY AN ENGINEERED EARTH RETAINING STRUCTURE. PVC

MATCHING EXISTING PAVEMENTS & STRUCTURES - THE CONTRACTOR SHALL VERIFY THE LOCATIONS, WIDTHS, THICKNESSES, AND ELEVATIONS OF ALL EXISTING PAVEMENTS AND STRUCTURES THAT ARE TO INTERFACE WITH NEW WORK. PROVIDE ALL TRIMMING, CUTTING, SAW CUTTING, GRADING, LEVELING, SLOPING, COATING, AND OTHER WORK INCLUDING MATERIALS AS NECESSARY TO CAUSE THE INTERFACE SD WITH EXISTING WORKS TO BE PROPER, ACCEPTABLE TO THE ENGINEER AND THE LOCAL JURISDICTION, SHT COMPLETE IN PLACE AND READY TO USE. CONTRACTOR SHALL MEET AND MATCH EXISTING ELEVATIONS SLHH OF STREET, RIGHT-OF-WAY AND PROPERTY LINES AND AT LIMITS OF GRADING WORK.

RETAINING WALL - THE RETAINING WALL SHALL BE A GABION ROCK WALL AS DESIGNED BY THE

ST PERMANENT STABILIZATION - THE FINAL SITE GRADES WILL BE STABILIZED WITH JUTE MATTING AND STA VEGETATION OR OTHER APPROVED BMP METHODS PROVIDED BY THE KING COUNTY STORM WATER DESIGN STD MANUAL AND/OR DEPARTMENT OF ECOLOGY SURFACE WATER DESIGN MANUAL FOR WESTERN

BOC

BOE

BTM

ECD

EOP

ESC

ESMT

FA

FD

FH

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HB

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HPG

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MON

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SAN

SNS

SQ

SSMH

SSS

TBM

TD

TEL

TESC

TYP

VB

w

WS

WV

YD

SS

GUY

FDC

| A/C | - | ASPHALTIC CONCRETE |
|----------|---|------------------------|
| AD | - | AREA DRAIN |
| ASPH | - | ASPHALT |
| BLDG | - | BUILDING |
| BM | - | BENCH MARK |
| BOC | - | BOTTOM OF CURB |
| BOE | - | BOTTOM OF EXCAVATION |
| BTM | - | BOTTOM |
| CB | - | CATCH BASIN |
| C&G | - | CURB AND GUTTER |
| CL | - | CENTERLINE, CHAIN LINK |
| CO | - | CLEANOUT |
| CONC | - | CONCRETE |
| CW | - | CONCRETE WALK |
| DBO | - | DESIGN BY OTHERS |
| DC | - | DROP CONNECTION |
| DEMO | - | DEMOLISH |
| DI | - | DUCTILE IRON |
| DOM | - | DOMESTIC |
| DS | - | DOWNSPOUT |
| DWY | - | DRIVEWAY |
| Е | - | EAST |
| ECD | - | ELECTRICAL CONDUIT |
| EL, ELEV | - | ELEVATION |
| | | |
| ELEC | - | ELECTRICAL |

EDGE OF PAVEMENT - EROSION & SEDIMENT CONTROL

- FIRE DEPARTMENT CONNECTION

EASEMENT EX, EXIST - EXISTING

FIELD ADJUST - FLOOR DRAIN

FINISH FLOOR

FIRE HYDRANT FLOOR FEET FIELD VERIFY GAS GAS METER GUY ANCHOR GAS VALVE HORIZONTAL HOSE BIBB HANDHOLF HIGH PRESSURE GAS HYDRAN INVERT ELEVATION INLET INVERT LINEAL FEET LOWER LEVEL LOCATION LIGHT POLE LANDSCAPING MATCH EXISTING MANHOLE MONUMENT POWER PLANTER AREA PERFORATED POWER METER POWER POLE PUBLIC STORM DRAIN PUBLIC SANITARY SEWER POINT OF CONNECTION POLYVINYLCHLORIDE PAVEMENT ROOF DRAIN SOUTH, SEWER, SLOPE SANITARY STORM DRAIN SHEET STREET LIGHT HANDHOLE STREET NAME SIGN SQUARE SANITARY SEWER SANITARY SEWER MANHOLE SANITARY SIDE SEWER STREET STATION STANDARD(S) TELEPHONE TEMPORARY BENCH MARK TRENCH DRAIN, TELEPHONE DUCT TELEPHONE TEMPORARY EROSION AND SEDIMENTATION CONTROL TELEPHONE MANHOLE TYPICAL UPPER LEVEL UNDERGROUND POWER VERTICAL VERTICAL BEND WATER WATER METER WATER SERVICE WATER VALVE YARD DRAIN



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STEEP SLOPE RESTORATION PARCEL #28-0403-0030-3200

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Key Plan

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NOTES AND ABBREVIATIONS

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| Drawn: | MG |
| Checked: | GMM |



Know what's below.

UTILITY NOTES

- 1. <u>EXISTING UTILITY LOCATIONS</u> EXISTING UTILITY AND OTHER SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN COMPILED FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION, HOWEVER, IS NOT GUARANTEED TO BE ACCURATE OR COMPLETE. CONTRACTOR TO LOCATE (INCLUDING ELEVATION) ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR CONSTRUCTION. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555, A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION.
- 2. <u>CONNECTIONS TO THE EXISTING UTILITIES</u> CONNECT UTILITY PIPING TO EXISTING SYSTEM ACCORDING TO REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ARRANGE WITH THE GOVERNING REGULATORY AGENCY OR UTILITY COMPANY FOR TAP OF SIZE AND IN LOCATION INDICATED. COORDINATE REQUIREMENTS AND SCHEDULING WITH AUTHORITIES HAVING JURISDICTION. THE OWNER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
- 3. UTILITY COVER & CLEARANCES BURY PIPING WITH DEPTH OF COVER IN COMPLIANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION FOR ALL REQUIREMENTS AND TO CONFIRM THAT AN ADEQUATE DEPTH OF COVER IS MAINTAINED OVER THE UTILITIES, INCLUDING CLEARANCES BETWEEN THE VARIOUS UTILITIES.
- 4. FITTINGS AND JOINTS FOR EACH TYPE OF PIPE, USE JOINING MATERIALS RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.
- 5. <u>FIELD CONTROL</u> FIELD QUALITY CONTROL SHALL COMPLY WITH THE AUTHORITIES HAVING JURISDICTION. INSPECT, TEST, DISINFECT, AND CLEAN UTILITY LINES IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- 6. <u>PIPE TRENCH & BEDDING</u> ALL PIPE SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN CONFORMANCE WITH THE REQUIREMENTS OF WSDOT/APWA SPECIFICATION 7-04.3(1). THIS SHALL INCLUDE NECESSARY LEVELING OF THE TRENCH BOTTOM OR THE TOP OF THE FOUNDATION MATERIAL AS WELL AS PLACEMENT AND COMPACTION OF REQUIRED BEDDING MATERIAL TO UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF THE PIPE WILL BE SUPPORTED ON A UNIFORMLY DENSE, UNYIELDING BASE. IF THE NATIVE MATERIAL IN THE BOTTOM OF THE TRENCH MEETS THE REQUIREMENTS FOR "GRAVEL BACKFILL FOR PIPE BEDDING" THE FIRST LIFT OF PIPE BEDDING MAY BE OMITTED, PROVIDED THE MATERIAL IN THE BOTTOM OF THE TRENCH IS LOOSENED, REGRADED AND COMPACTED TO FORM A DENSE UNVIELDING BASE.
- 7. TRENCH BACKFILL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DENSITY, IN ACCORDANCE WITH SECTION 7-04.3(3) OF THE WSDOT/APWA STANDARD SPECIFICATIONS. BACKFILL OF TRENCHES SHALL BE PER SECTION 9-03.12(3) OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
- 8. TRENCH SURFACE RESTORATION THE GROUND SURFACES OF ALL TRENCHES IN THE PUBLIC RIGHT-OF-WAY OR ON OFF-SITE PROPERTIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION.
- 9. COMPACTION ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
- 10. <u>UTILITY TAPE</u> UTILITY PIPE AND CONDUITS SHALL BE INSTALLED WITH CONTINUOUS WARNING TAPE DIRECTLY OVER PIPING AT DEPTHS IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND AT OUTSIDE EDGE OF UNDERGROUND STRUCTURES. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING.

STORM WATER / DRAINAGE NOTES

- STANDARD SPECIFICATIONS.
- SLOPE AREA.

1. <u>GENERAL STORM WATER</u> - DRAWING PLANS AND DETAILS INDICATE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITY AND STORM DRAIN PIPING. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE DESIGN CONSIDERATIONS INTO ACCOUNT. INSTALL PIPING AS INDICATED, TO EXTENT PRACTICAL. WHERE SPECIFIC INSTALLATION IS NOT INDICATED, FOLLOW PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS. REFER TO ARCHITECTURAL AND MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING ROOF DRAINS AND CANOPY DRAINS.

2. <u>STORM DRAIN PIPE</u> - STORM DRAIN PIPE SHALL BE HDPE SCH 11 PIPE. APPROVED ADAPTORS TO BE INSTALLED TO TRANSITION FROM THE EXISTING PIPE MATERIAL TO THE HDPE PIPE. STORM DRAIN PIPE TO BE INSTALLED IN DUCTILE IRON SLEEVES WHERE IT CROSSES THROUGH THE GABION WALL. STORM DRAIN PIPE SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF DIVISION 7-04 OF THE WSDOT/APWA

3. PIPE ANCHORS - PIPE ANCHORS SHALL CONSIST OF A PIPE STRAP AND REBAR POSTS, OR APPROVED EQUAL. POSTS TO BE INSTALLED A MINIMUM OF 3 FEET INTO EXISTING GRADE. PIPE STRAP TO BE SIZED TO ALLOW FOR EXPANSION AND CONTRACTION OF EXPOSED PORTION OF HDPE PIPE. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND/OR SPECIFICATIONS OF MATERIALS TO BE USED PRIOR TO INSTALLATION.

4. DOWNSPOUTS - ANY EXISTING DOWNSPOUTS SHALL BE TIGHT-LINED AND DIRECTED AWAY FROM THE STEEP

5. CLEANING & TESTING - CLEANING & TESTING OF THE STORM DRAIN SYSTEM SHALL BE PERFORMED IN CONFORMANCE WITH SECTIONS 7-04 AND 7-07 OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL JURISDICTION. THE STORM DRAIN SYSTEM SHALL BE CLEANED OF ALL DIRT, ROCK AND DEBRIS PRIOR TO FINAL ACCEPTANCE OF THE WORK.



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C1.2



PLAN VIEW



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GENERAL NOTES

- 1. THE EXISTING TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON THE SURVEY TITLED "TOPOGRAPHIC SURVEY FOR MUKILTEO RIDGE HOA" PREPARED BY ORCA LAND SURVEYING, DATED 10/02/2018.
- 2. WETLAND, WETLAND BUFFER AND STREAM CENTER LINE BEFORE SLIDE TAKEN FROM THE WETLAND REPORT TITLED "WETLAND DELINEATION AND FISH & WILDLIFE HABITAT REPORT KAILASH HEIGHTS" PREPARED BY CURRAN ENVIRONMENTAL SERVICES, LLC, DATED DECEMBER 2008.

TESC NOTES

- (1) APPROXIMATE LIMITS
- 2 APPROXIMATE EXCAVATION LIMITS
- 3 WALL BASE BENCH
- (4) SAVE AND PROTECT EXISTING TREES
- 5 EXISTING TREES TO BE REMOVED
- 6 SAVE AND PROTECT EXISTING BUILDING AND BUILDING FOUNDATION
- TEMPORARY ACCESS SLOPE PROTECT EXISTING SLOPE FROM ADDITIONAL DAMAGE
- 8 SILT FABRIC FENCE
- 9 SAVE AND PROTECT EXISTING STREAM, LOCATION APPROXIMATE

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TEMPORARY **EROSION CONTROL** PLAN

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2. BARRIER FENCING SHALL BE LOCATED AT THE DRIPLINES OF EXISTING TREES LOCATED WITHIN OR NEAR THE CONSTRUCTION LIMITS, WHICH ARE NOT PROTECTED BY FILTER FABRIC FENCING.





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Scale: 1" =

GENERAL NOTES

- 1. THE EXISTING TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON THE SURVEY TITLED "TOPOGRAPHIC SURVEY FOR MUKILTEO RIDGE HOA" PREPARED BY ORCA LAND SURVEYING, DATED 10/02/2018.
- 2. WETLAND, WETLAND BUFFER AND STREAM CENTER LINE BEFORE SLIDE TAKEN FROM THE WETLAND REPORT TITLED "WETLAND DELINEATION AND FISH & WILDLIFE HABITAT REPORT KAILASH HEIGHTS" PREPARED BY CURRAN ENVIRONMENTAL SERVICES, LLC, DATED DECEMBER 2008.

GRADING NOTES

- 1 GABION WALL
- 2 PROPOSED STORM OUTFALL
- (3) INSTALL NEW PIPE ANCHORS, SEE SECTION D
- (4) APPROXIMATE LIMITS OF FILL
- 5 FILL AREA TO BE RESTORED WITH JUTE MATT & NATIVE PLANTINGS PER BIOLOGIST REQUIREMENTS
- 6 SAVE AND PROTECT EXISTING TREES
- SAVE AND PROTECT EXISTING STREAM, LOCATION APPROXIMATE
- TRANSITION FROM PERF PIPE TO SOLID PIPE ANDINSTALL FOOTING DRAIN COLLECTOR IN PIPESLEEVE THROUGH WALL TO DISCHARGE TO ROCK
- PAD.

EARTHWORK ESTIMATES

CUT VOLUMEFILL VOLUME200 CY BANK380 CY BANK *

FINISHED GRADE -

WYE, SEE NOTE —

*(INCLUDES VOLUME OF GABION WALL ROCK MATERIAL)

__<u>__</u><u>__</u><u>__</u><u>__</u><u>__</u>

- 4" OR 6" GASKETED CAP

- #10 WIRE, (2) WRAPS MIN

REQ'D FOR MAGNETIC

LOCATION FINDER

- 4" OR 6" PVC PIPE

AND FITTINGS, TYP

NOTE

BURIED SD CLEANOUT C3.0 NTS

— 4" OR 6" GASKETED CAP IF CLEANOUT IS AT THE HEAD OF THE SYSTEM

1. A SANITARY TEE OR SWEEP MAY BE INSTALLED IN LIEU OF A WYE AS SHOWN. STRAIGHT TEES ARE NOT ACCEPTABLE.

ph 206.623.0717

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STEEP SLOPE RESTORATION PARCEL #28-0403-0030-3200

PERMIT SET

Revisions

Registration

Key Plan

Sheet Title

GRADING, DRAINAGE & MITIGATION PLAN

| Scale: | PER PLA |
|-----------------|------------|
| CEI Project No: | 181908 |
| Date: | 02/25/2022 |
| Designed: | GMM |
| Drawn: | MG |
| Checked: | GMM |

Know what's below. Call before you dig.

Sheet Number

C3.0

SECTION A-A: EXCAVATION Scale: 1" = 5' VERTICAL; 1" = 5' HORIZONTAL

SECTION B-B: EXCAVATION Scale: 1" = 5' VERTICAL; 1" = 5' HORIZONTAL

SECTION A-A: FINAL Scale: 1" = 5' VERTICAL; 1" = 5' HORIZONTAL

SECTION B-B: FINAL Scale: 1" = 5' VERTICAL; 1" = 5' HORIZONTAL

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Sheet Title SECTIONS AA & BB

Scale: CEI Project No: Date: Designed: Drawn: Checked:

Sheet Number

PER PLAN 181908 02/25/2022 GMM MG GMM

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SECTION D-D-: EXCAVATION

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Sheet Title SECTIONS CC & DD

PER PLAN Scale: CEI Project No: 181908 02/25/2022 Date: GMM Designed: MG Drawn: GMM Checked:

Sheet Number

C4.1

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SECTION D-D: FINAL

Scale: 1" = 5' VERTICAL; 1" = 5' HORIZONTAL

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Sheet Title WALL PROFILE

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Sheet Number

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C4.2