



July 28, 2022

Multi/Tech Engineering Services, Inc.  
Attn: Jeff Bolton  
1155 13<sup>th</sup> Street SE  
Salem, OR 97302

RE: Approval of Grading Permit GRAD 22-04 "Woodburn Place West" for 2045 Molalla Rd NE  
(Tax Lot 051W08A005200)

Dear Mr. Bolton:

Staff approves the Grading Permit, subject to the conditions of approval outlined in this letter.

*Summary of Review:*

This site is subject to the development standards of the [Woodburn Development Ordinance \(WDO\)](#). The applicant is requesting to perform grading work in preparation for construction of a residential apartment complex. Pursuant to WDO 4.01.02, the Director shall render all Type I land use decisions. The Director's decision is the final decision of the City on a Type I application and cannot be appealed by any party through the City land use appeals process.

*Context*

The work approved by this Grading Permit is at the applicant's own risk. As of the date of this letter, no land use approval has been granted for the subject property and no civil, architectural, or landscaping plans for development have been approved.

*Planning Conditions of Approval:*

1. Conformance with Approved Plans: All site work shall be in substantial conformance with the approved grading plans.
2. DEQ: All development activity shall be in accordance with the approved Department of Environmental Quality (DEQ) 1200-C permit. The applicant shall provide to the City any modifications to the DEQ permit.

3. Other agencies: The applicant, not the City, is responsible for obtaining permits from the US Army Corps of Engineers (USACE), Oregon Department of State Lands (DSL), Oregon Department of Transportation (ODOT), and other agencies which might require approval or permit.
4. ROW: All work within City rights-of-way (ROWs) or easements within City jurisdiction shall require plan approval and permit issuance from the Public Works Department.
5. Trees: Grading excludes approval to remove any significant trees. Significant trees, which are trees that have a diameter at breast height (DBH) of 24 inches or more, must obtain a Significant Tree Removal Permit to be removed per WDO 3.06.07. Significant trees shall be preserved following the enclosed City of Portland Tree Protection Rules.

*Public Works Conditions of Approval:*

6. The applicant shall comply with the submitted grading and erosion control plans, including measures to keep the ROW clean, to protect existing catch basins around the work area, and maintain dust control measures. All catch basins around the work area shall be clean of debris and soils at all times. Note that erosion control plans may be subject to modifications if and when grading and civil improvements of other phases of the Smith Creek Development are completed.
7. Construction access is limited to only one construction entrance onto Molalla Road.
8. The applicant shall continuously maintain adequate protection of all work from damage and protect the public and private property of others from injury or loss arising in connection with the work.
9. The applicant shall comply with City of Woodburn Planning Department requirements through Woodburn Development Ordinance (WDO) 5.01.04 Grading Permit.
10. Prior to starting work, contact the Public Works Department for inspection of the erosion control in the public ROW. Contact the Engineering Division at (503) 982-5240.
11. The applicant shall leave ROW in clean condition, free from litter and debris, at the end of each workday, or more frequently if directed by the City Inspector.
12. Sidewalk and street closures are not allowed under this permit.
13. Prior to starting work, silt fencing shall be installed around the entire perimeter of the work area. Applicant shall comply with all requirements and conditions set on their 1200C permit.

*ODOT Conditions of Approval:*

14. The highway connection and frontage improvements have not yet been approved by ODOT, and any work on site is at the applicant's own risk should the design need to change as part of ODOT's permitting process.
15. No work shall take place in the state right-of-way until construction plans have been approved and permitted by ODOT for this specific development.
16. Only one construction access is authorized for the site. There is currently a highway approach opposite June Way that can be used for construction access.
17. All dirt and debris on OR-211 must be removed at the end of each day.
18. If temporary traffic control is needed on OR-211 for construction equipment or deliveries, a traffic control plan must first be reviewed and approved by ODOT.

Final decision approved by designee:



Dan Handel, AICP  
Planner

July 28, 2022

Enclosure:

1. Approved Plans
2. City of Portland Tree Protection Rules

cc: Chris Kerr, Community Development Director  
Colin Cortes, AICP, CNU-A, Senior Planner  
Curtis Stultz, Public Works Director  
Dago Garcia, PE, City Engineer  
Casey Knecht, PE, ODOT Region 2 Development Review Coordinator

file: GRAD 22-04



**GRADING PLAN**

**WOODBURN PLACE WEST**

NO CHANGES, MODIFICATIONS OR REPRODUCTIONS TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.  
 DIMENSIONS & NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.

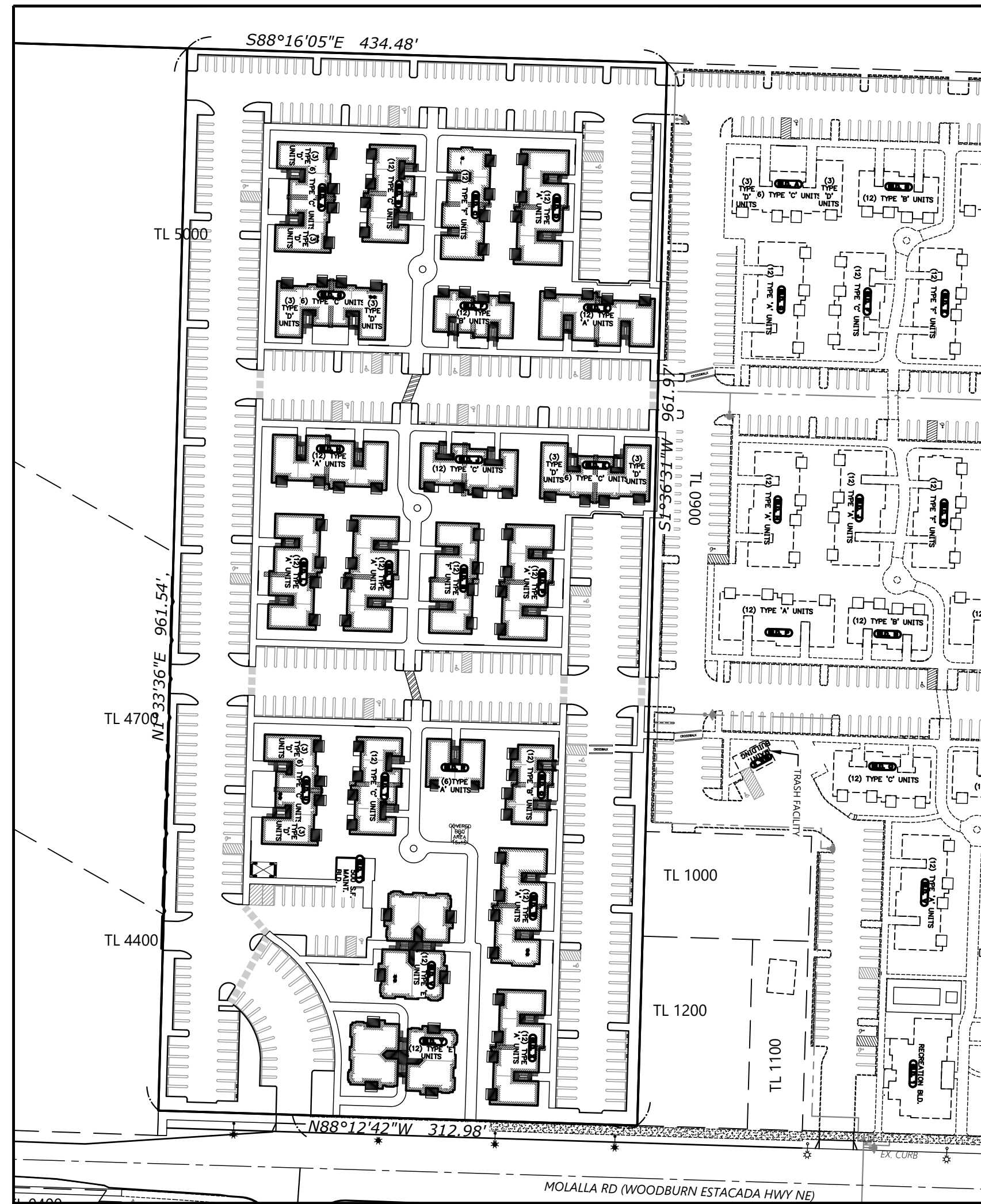
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 Drawn: R.P.H.  
 Checked: J.C.B.  
 Date: JUNE-2022  
 Scale: AS SHOWN



JOB # 7402

**SDR6**





SITE MAP



VICINITY MAP  
N.T.S.

**EROSION AND SEDIMENT CONTROL PLAN**  
**WOODBURN PLACE WEST**  
**SEC. 5, T. 1 W., R. 1 W., W.M.**  
**CITY OF WOODBURN**  
**MARION COUNTY, OREGON**

*Owner / Developer:*  
**WOODBURN APARTMENTS, LLC.**  
**27375 SW PARKWAY AVE**  
**WILSONVILLE, OR, 97070**  
**PHONE: (503) 655-7933**

*Contractor:*  
**I & E CONSTRUCTION**  
**CESCL #70801**  
**EXPIRES: 12/08/2021**

*Engineer:*  
**Multi/Tech Engineering**  
**1155 13th St. S.E.**  
**Salem, OR 97302**  
**PHONE: (503) 363-9227**

*Sub-Contractors:*  
**HOUCK CONSTRUCTION**  
**(PAVEMENT)**  
**GELCO CONSTRUCTION COMPANY**  
**(CONCRETE)**

**SITE NOTES:**

- FLOOD NOTE: THE PROPERTY SHOWN HEREON APPEARS TO LIE OUTSIDE OTHER AREAS ZONE "X", AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN PER THE FIRM MAP NUMBER 41047C0139G.
- THERE ARE NO WETLANDS LOCATED ON THE PROPERTY.
- THERE ARE NO DRINKING WATER SOURCE AREAS ON OR NEAR THE PROPERTY.

**EROSION AND SEDIMENT CONTROL BMP IMPLEMENTAION:**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
- INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.
- ALL ESC MEASURES DOWNSLOPE MUST BE IN PLACE PRIOR TO GRADING ACTIVITIES. INTEGRATE EROSION CONTROL MEASURES TO UPSLOPE AREAS AS PROJECT PROGRESSES.

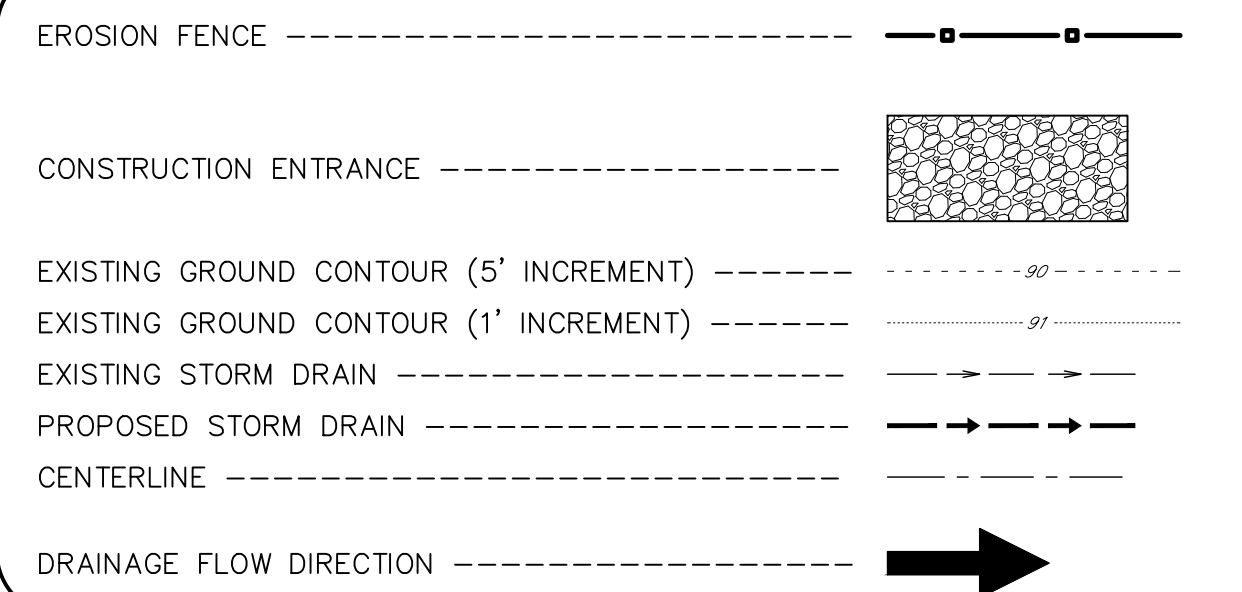
**RECEIVING WATER BODIES:**  
 PUDDING RIVER

**SOIL CONTAMINATION:**  
 CONTAMINATED SOILS NOT EXPECTED ON-SITE PER THE ECST DATABASE. IF CONTAMINATED SOILS ARE DISCOVERED, AN ENVIRONMENTAL MANAGEMENT PLAN WILL BE REQUIRED. (SECTION 1.2.9)

**IMPACTED WATER BODIES:**  
 - ODOT STORM SYSTEM  
 - PUDDING RIVER

**CONSTRUCTION SUPPORT ACTIVITY:**  
 ON-SITE ACTIVITIES WILL INCLUDE ALL 9.60 ACRES OF SITE AREA. TOGETHER WITH OFF SITE IMPROVEMENTS INCLUDING:  
 ≈440 L.F. OF PUBLIC STREET IMPROVEMENTS INCLUDING TAPER,  
 ≈440 L.F. OF PUBLIC SIDEWALK CONSTRUCTION

LEGEND



**SITE DESCRIPTIONS:**

TOTAL SITE AREA: 417,470 SF = 9.60 AC  
 TOTAL DISTURBED AREA: 417,470 SF = 9.60 AC

**PROJECT LOCATION:**

≈ 1,300' EAST OF THE INTERSECTION OF HWY 211 AND 99E.  
 MAP NO. / TAX LOT: 051W08A005200  
 LATITUDE = 45°09'04"N LONGITUDE = 122°49'35"W

**PROPERTY DESCRIPTION:**

A 258 UNIT, 22 BUILDING MULTI/FAMILY DEVELOPMENT

**EXISTING SITE CONDITIONS:**

EXISTING VEGETATION CONSISTS OF AGRICULTURAL PASTURE GRASSLANDS WITH MINIMAL TREES.

**DEVELOPED CONDITIONS:**

A 258 UNIT, 22 BUILDING MULTI/FAMILY DEVELOPMENT

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME - JULY 2022 - MAY 2024

CLEARING & MASS GRADING: JULY 2022 → SEPTEMBER 2022  
 PRIVATE UTILITY CONSTRUCTION: OCTOBER 2022 → APRIL 2023  
 PUBLIC UTILITY CONSTRUCTION: SEPTEMBER 2022 → MARCH 2023  
 PRIVATE STREET IMPROVEMENTS: SEPTEMBER 2022 → MAY 2024  
 BUILDING CONSTRUCTION: OCTOBER 2022 → MAY 2024  
 FINAL LANDSCAPING: MAY 2023 → JULY 2024  
 FINAL ON-SITE PAVING: APR 2023 → MAY 2024

**SOIL CLASSIFICATION:**

- A) WOODBURN SILT LOAM - HYDROLOGICAL GROUP C
- B) AMITY SILT LOAM - HYDROLOGICAL GROUP C
- C) DAYTON SILT LOAM - HYDROLOGICAL GROUP D

**FILL MATERIAL:**

IMPORTED AGGREGATE AND ON-SITE SOILS

**TEMPORARY SEED MIX OPTIONS:**

CONTRACTOR TO PRESERVE VEGETATION ON STEEP SLOPES UNTIL IT BECOMES NECESSARY TO DISTURB FOR CONSTRUCTION.

TEMPORARY SEED MIX:

- 40% PERENNIAL RYEGRASS
- 40% CREEPING RED FESCUE
- 10% COLONIAL BENTGRASS
- 10% WHITE CLOVER

**ENGINEERED SOILS:**

ENGINEERED SOILS ARE NOT EXPECTED TO BE USED ON-SITE. IF ENGINEERED SOILS ARE IMPLEMENTED ON-SITE DURING CONSTRUCTION, AN ENGINEERED SEDIMENT BASIN AND pH MONITORING WILL BE REQUIRED. (SECTIONS 2.2.17, 2.2.18 AND 6.6)

**AUTHORIZED NON-STORMWATER DISCHARGES:**

THERE IS A POTENTIAL NEED FOR DUST CONTROL DURING DRY MONTHS. THERE IS A POTENTIAL THAT WATER USED TO CONTROL DUST WILL DISCHARGE FROM THE SITE AFTER PASSING THROUGH PERIMETER ESC MEASURES. CONSTRUCTION DEWATERING ACTIVITIES ARE NOT EXPECTED FOR THIS PROJECT BASED UPON GROUNDWATER DEPTH AND EXCAVATION DEPTH. (SECTION 1.4)

**POLLUTANT-GENERATING ACTIVITIES:**

INFRASTRUCTURE CONSTRUCTION IS ANTICIPATED TO GENERATE POLLUTANTS INCLUDING FUEL, OILS, WASHOUT FROM CONCRETE. HOME CONSTRUCTION IS ANTICIPATED TO GENERATE POLLUTANTS INCLUDING CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, DRYWALL, JOINT COMPOUND. ON-SITE FUEL STORAGE IS NOT ALLOWED (SECTION 2.4)

**WASTE MANAGEMENT:**

WASTE TO BE CLEANED UP AND PLACED IN DESIGNATED WASTE CONTAINERS. WASTE CONTAINERS TO HAVE GROUND SEPARATION AND TO BE OF SUFFICIENT SIZE AND NUMBER TO CONTAIN CONSTRUCTION AND DOMESTIC WASTE. CONTAINERS TO BE KEPT CLOSED WHEN NOT IN USE AND CLOSED AT EH END OF THE BUSINESS DAY. (SECTION 2.3.1, 2.3.4 AND 2.3.7)

**SPILL RESPONSE:**

SEE SPILL PREVENTION AND RESPONSE PLAN PREPARED BY RANDY SINGER. SPILLS SHALL BE STOPPED EXPEDITIOUSLY, CONTAINED AND CLEANED UP AND DISPOSED OF OFFSITE AT AN APPROVED FACILITY (SECTION 4.4.e.xx1). DISCHARGE OF HAZARDOUS SUBSTANCES SHALL BE IMMEDIATELY REPORTED TO THE OREGON EMERGENCY RESPONSE SYSTEM AT (800)452-0311 (SECTION 2.3.10).

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

ATTENTION: Oregon Law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0900. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 503-232-1987)

INSPECTION FREQUENCY

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.  AT LEAST ONCE EVERY 14 DAYS REGARDLESS OF WETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5. DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200 C PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200 C PERMIT REQUIREMENTS.
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY, DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION

PERMITTEE'S SITE INSPECTOR:

COMPANY/AGENCY: AKS ENGINEERING AND FORESTRY, LLC  
 PHONE: 503-400-6028  
 FAX: \_\_\_\_\_  
 E-MAIL: [terran@aks-eng.com](mailto:terran@aks-eng.com)  
 DESCRIPTION OF EXPERIENCE: CESCL # 82295  
 CERTIFICATE EXPIRES 3/13/2023

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT. THIS EROSION AND SEDIMENT CONTROL PLAN AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

BUSINESS DAYS/HOURS	
MONDAY	7:00a - 6:00p
TUESDAY	7:00a - 6:00p
WEDNESDAY	7:00a - 6:00p
THURSDAY	7:00a - 6:00p
FRIDAY	7:00a - 6:00p
SATURDAY	7:00a - 6:00p
SUNDAY	- NO WORK -

**RAIN GAUGE**

NEAREST RAIN GAUGE ID: WOODBURN WASTEWATER TREATMENT (KORWOODB3)  
 LOCATION: WOODBURN, OR  
 LATITUDE: 45.15° NORTH  
 LONGITUDE: 122.81° WEST  
 (COORDINATES FROM WEATHER UNDERGROUND - wunderground.com)

**SHEET INDEX**

- EC-1.0 EROSION CONTROL COVER SHEET
- EC-1.1 EROSION CONTROL NOTES AND BMP MATRIX
- EC-2.0 EXISTING CONDITIONS
- EC-2.1 CLEARING, MASS GRADING, EROSION & SEDIMENT CONTROL PLAN
- EC-2.2 STREET AND UTILITIES
- EC-2.3 OFFSITE - MOLALLA ROAD
- EC-2.4 VERTICAL CONSTRUCTION
- EC-2.5 FINAL LANDSCAPING & STABILIZATION
- EC-3.0 EROSION CONTROL DETAILS



EROSION CONTROL PLAN  
COVER SHEET

WOODBURN PLACE WEST

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 Checked: J.C.B.  
 Date: JUNE 2022  
 Scale: AS SHOWN  
 As-Built: \_\_\_\_\_



EXPIRES: 06-30-2023  
 JOB # 7402

**EC-1.0**

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**DEQ ESCP NOTES**

- 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.1). 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.11)
- VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
- THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
- SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
- MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50- FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS. (SECTIONS 2.1.1. AND 2.2.16)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SECTION 2.2.7)
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
- ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
- IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPONDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
- PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- IMPLEMENT THE FOLLOWING BMPs WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS); REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
- DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED MOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE (SECTION 2.2.21)

**PART II: BMPs WITH ESCP IMPLEMENTATION SCHEDULE FORM**

The following controls and practices (BMPs), if appropriate for the site, are required in the ESCP. Submission of all ESCP revisions to DEQ are not required. ESCP revisions must be submitted in 10 days for specific conditions. See 1200-C permit (Section 4.8).

BMPs	Year: 2022																			
	Month #:	7	8	9	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01
Biobags	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bioswales																				
Check Dams																				
Compost Berm																				
Compost Blankets																				
Compost Socks																				
Concrete Truck Washout					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Construction Entrance	X	X	X	X	X	X	X	X	X	X	X	X								
Dewatering (treatment location, schematic, and sampling plan required)																				
Drainage Swales																				
Earth Dikes (Stabilized)																				
Energy Dissipaters																				
Erosion Control Blankets & Mats (Specify type)																				
Hydroseeding																				
Inlet Protection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mulches (Specify Type)																				
Mycorrhizae/ Biofertilizers																				
Natural Buffer Zone																				
Orange fencing (protecting sensitive/preserved areas)																				
Outlet Protection																				
Permanent Seeding and Planting							X					X						X		
Pipe Slope Drains																				
Plastic Sheeting	X	X	X	X	X	X	X	X	X	X	X	X								
Preserve Existing Vegetation																				
Sediment Fencing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sediment Barrier																				
Sediment Trap																				
Sodding																				
Soil Tackifiers																				
Storm Drain Inlet Protection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Straw Wattles (or other materials)																				
Temporary Diversion Dikes																				
Temporary or Permanent Sedimentation Basins																				
Temporary Seeding and Planting					X							X								
Treatment System (O & M plan required)																				
Unpaved roads graveled or other BMP on the road																				
Vegetative Buffer Strips																				

Rev. 12/15/20

By: Blair Edwards

Page 5 of 9



**EROSION CONTROL PLAN NOTES**

**WOODBURN PLACE WEST**

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DIMENSIONS & NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.

Design: M.D.G.  
Drawn: R.P.H.  
Checked: J.C.B.  
Date: APR-2022  
Scale: AS SHOWN  
As-Built:

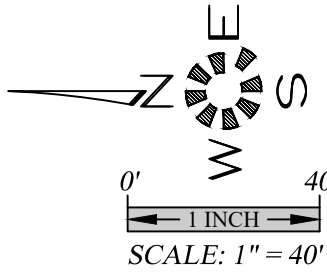


JOB # 7402

**EC-1.1**



J:\V\K\17402-WoodburnPlaceWest\DWG 20\17402B.dwg EC-2.0 7/27/2022 2:38:20 PM Resolution: R10a10a1



**EROSION CONTROL PLAN  
EXISTING CONDITIONS**

**WOODBURN PLACE WEST**

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GRAPHICAL REPRESENTATION.

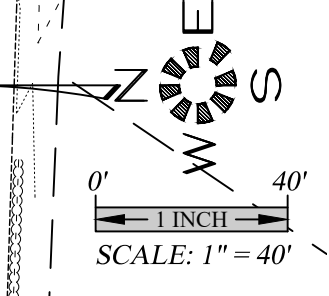
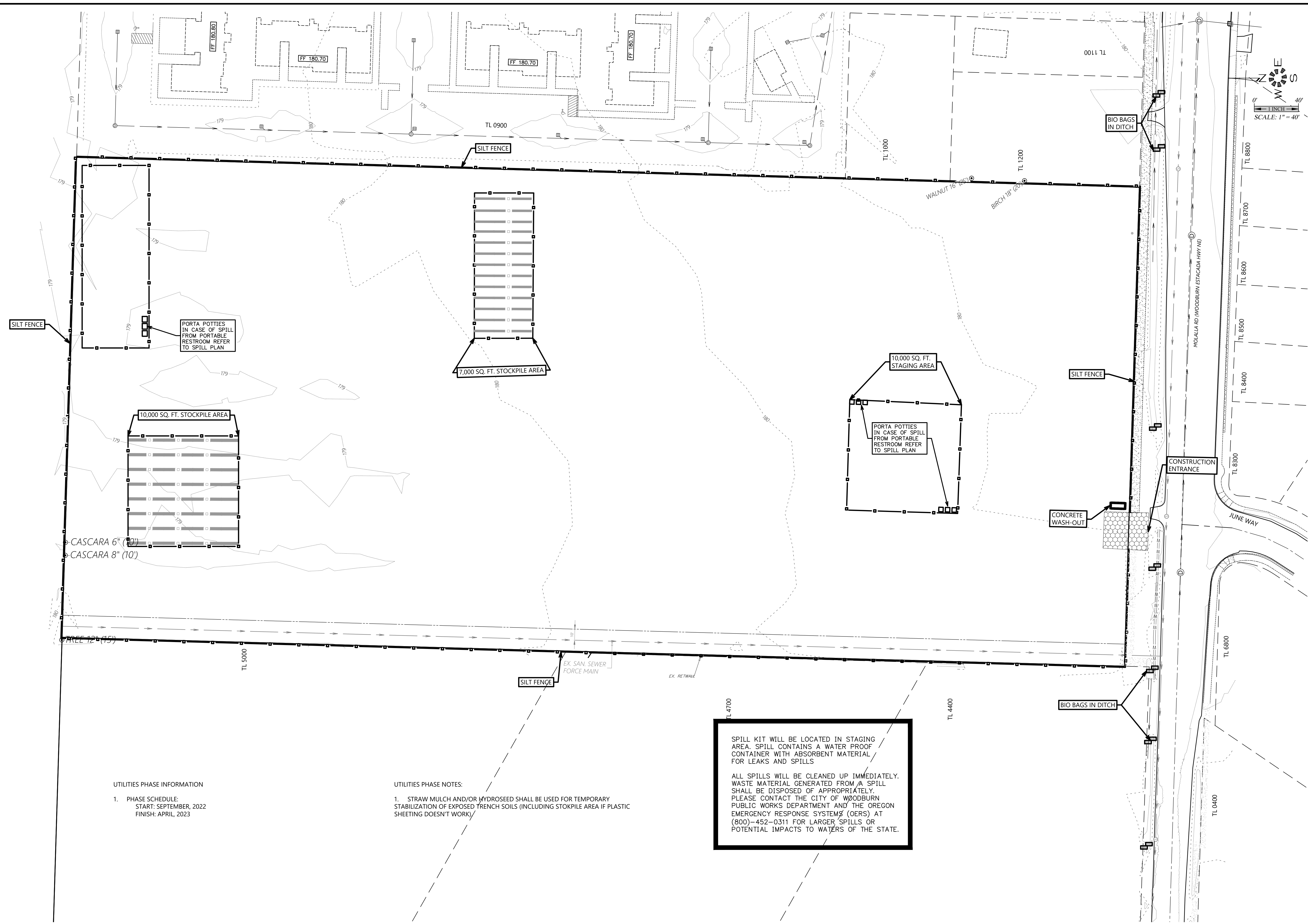
7402B EC-2.0  
Design: M.D.G.  
Drawn: R.P.H.  
Checked: J.C.B.  
Date: JULY-2022  
Scale: AS SHOWN  
As-Built:



EXPIRES 06-30-2023  
JOB # 7402

**EC-2.0**

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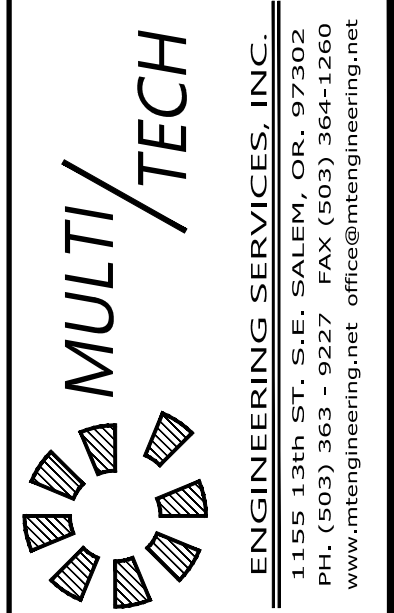


UTILITIES PHASE INFORMATION  
1. PHASE SCHEDULE:  
START: SEPTEMBER, 2022  
FINISH: APRIL, 2023

UTILITIES PHASE NOTES:  
1. STRAW MULCH AND/OR HYDROSEED SHALL BE USED FOR TEMPORARY STABILIZATION OF EXPOSED TRENCH SOILS (INCLUDING STOKPILE AREA IF PLASTIC SHEETING DOESNT WORK)

SPILL KIT WILL BE LOCATED IN STAGING AREA. SPILL CONTAINS A WATER PROOF CONTAINER WITH ABSORBENT MATERIAL FOR LEAKS AND SPILLS

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY. WASTE MATERIAL GENERATED FROM A SPILL SHALL BE DISPOSED OF APPROPRIATELY. PLEASE CONTACT THE CITY OF WOODBURN PUBLIC WORKS DEPARTMENT AND THE OREGON EMERGENCY RESPONSE SYSTEMS (OERS) AT (800)-452-0311 FOR LARGER SPILLS OR POTENTIAL IMPACTS TO WATERS OF THE STATE.



# EROSION CONTROL DEMO, CLEARING, & LAND DEVELOPMENT PLAN

## WOODBURN PLACE WEST

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74026 EC-2.1  
Design: M.D.G.  
Drawn: R.P.H.  
Checked: J.C.B.  
Date: JULY-2022  
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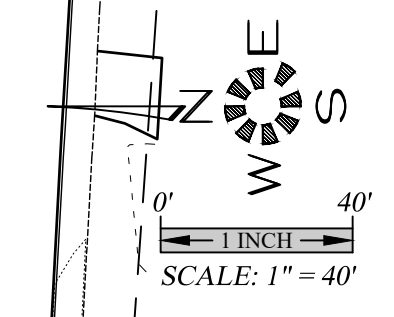
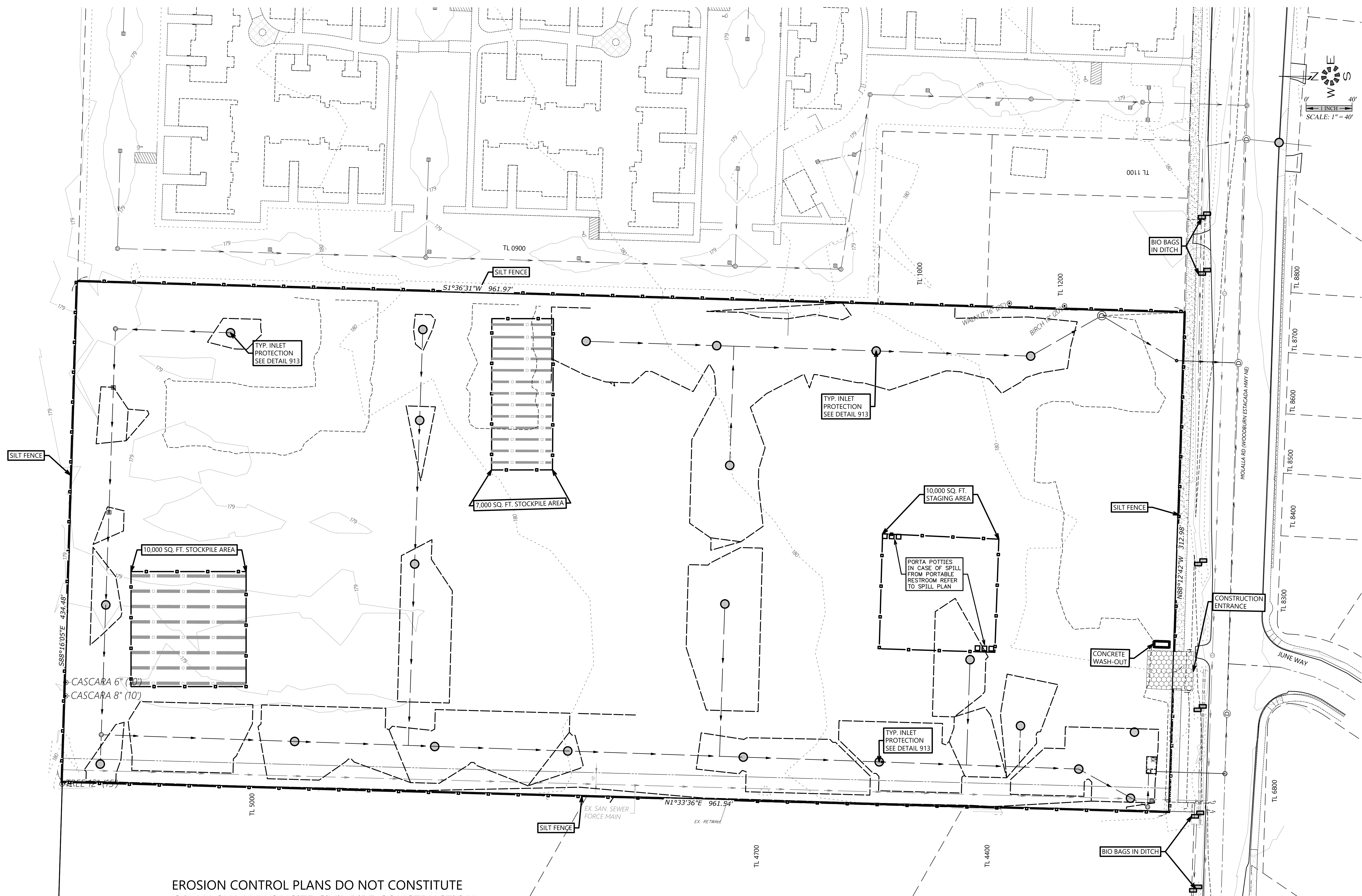


JOB # 7402

EC-2.1



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EROSION CONTROL PLANS DO NOT CONSTITUTE OR ALLOW ANY ONSITE CIVIL PIPE CONSTRUCTION



### EROSION CONTROL SITE SUBGRADE AND UTILITIES PLAN

### WOODBURN PLACE WEST

NO CHANGES, MODIFICATIONS OR REPRODUCTIONS TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.  
DIMENSIONS & NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.

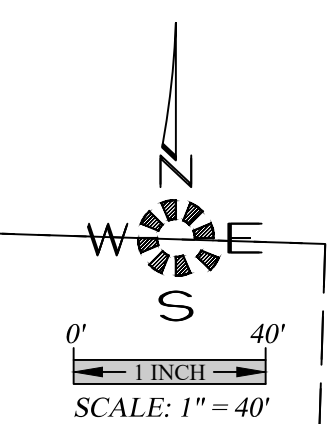
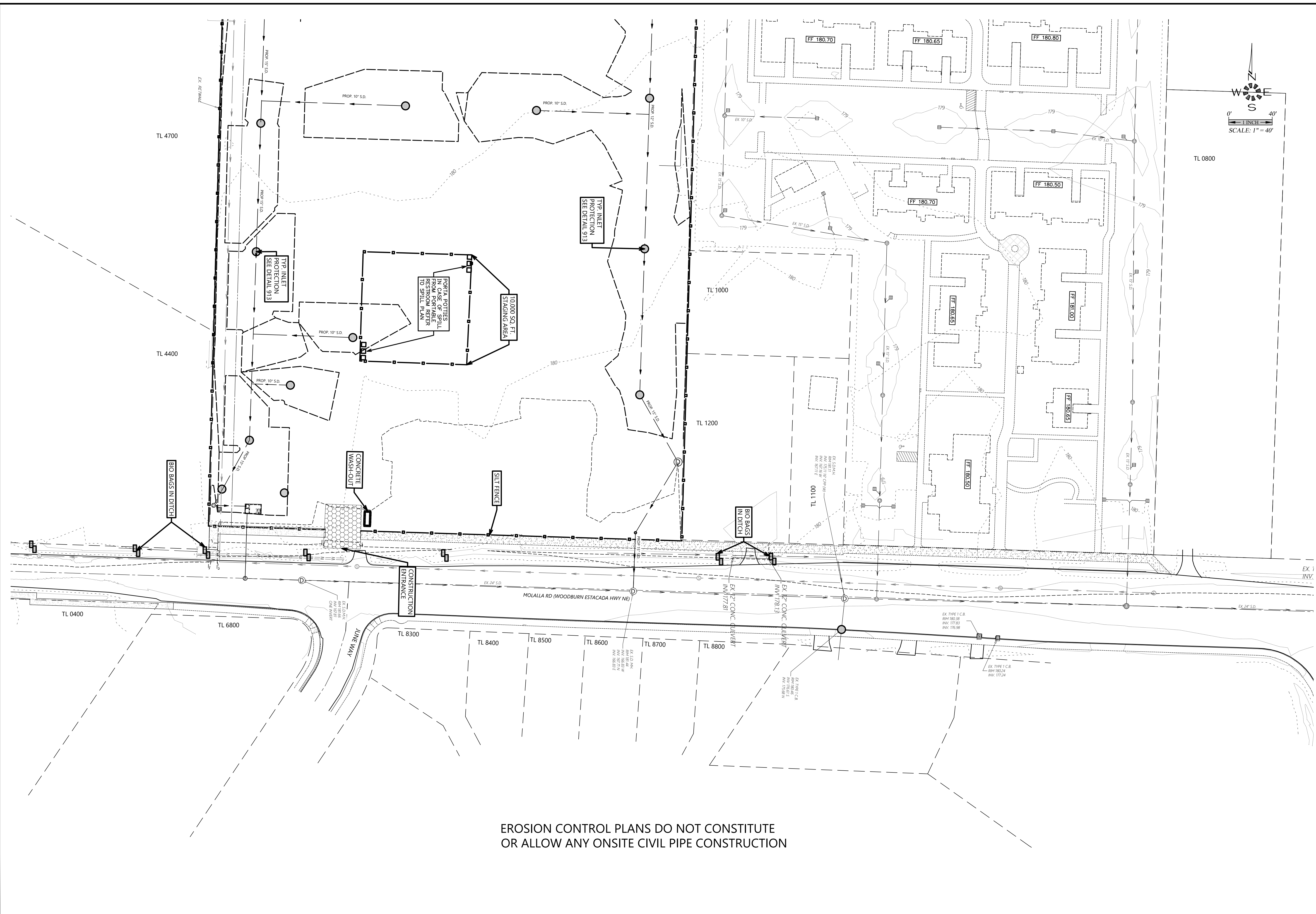
Design:	M.D.G.
Drawn:	R.P.H.
Checked:	J.C.B.
Date:	MAY-2022
Scale:	AS SHOWN
As-Built:	



JOB # 7402

## EC-2.2

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EROSION CONTROL PLANS DO NOT CONSTITUTE  
OR ALLOW ANY ONSITE CIVIL PIPE CONSTRUCTION



**EROSION CONTROL  
OFFSITE MOLALLA RD**

**WOODBURN PLACE WEST**

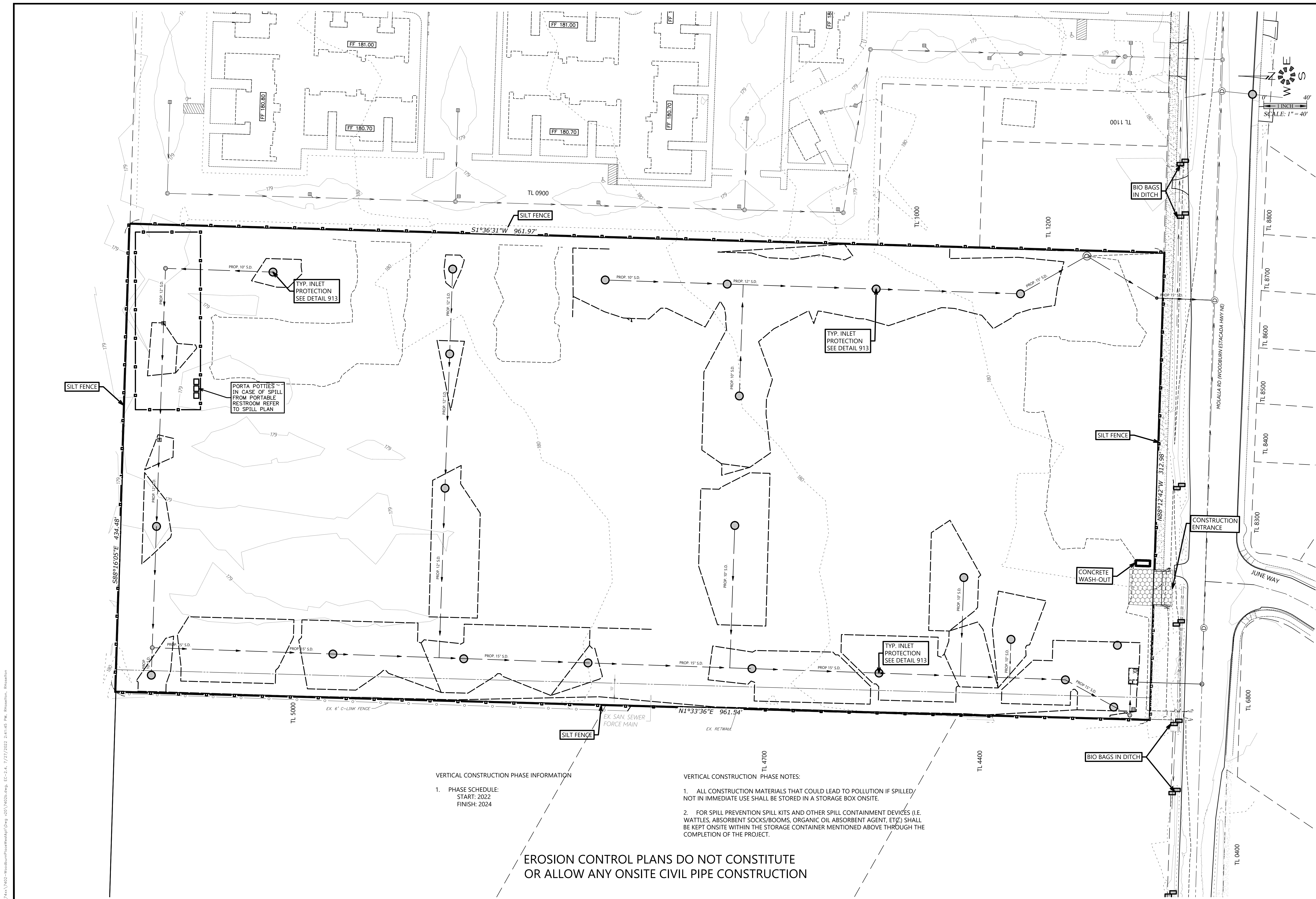
NO CHANGES, MODIFICATIONS  
OR REPRODUCTIONS TO BE  
MADE TO THESE DRAWINGS  
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DESIGN ENGINEER.  
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7402b EC-2.3  
Design: M.D.G.  
Drawn: R.P.H.  
Checked: J.C.B.  
Date: MAY-2022  
Scale: AS SHOWN  
As-Built: \_\_\_\_\_



JOB # 7402

**EC-2.3**



**EROSION CONTROL  
VERTICAL CONSTRUCTION  
PLAN**

**WOODBURN PLACE WEST**

NO CHANGES, MODIFICATIONS OR REPRODUCTIONS TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.  
DIMENSIONS & NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.

Design:	M.D.G.
Drawn:	R.P.H.
Checked:	J.C.B.
Date:	MAY-2022
Scale:	AS SHOWN
As-Built:	



JOB # 7402

**EC-2.4**

**VERTICAL CONSTRUCTION PHASE INFORMATION**

1. PHASE SCHEDULE:  
START: 2022  
FINISH: 2024

**VERTICAL CONSTRUCTION PHASE NOTES:**

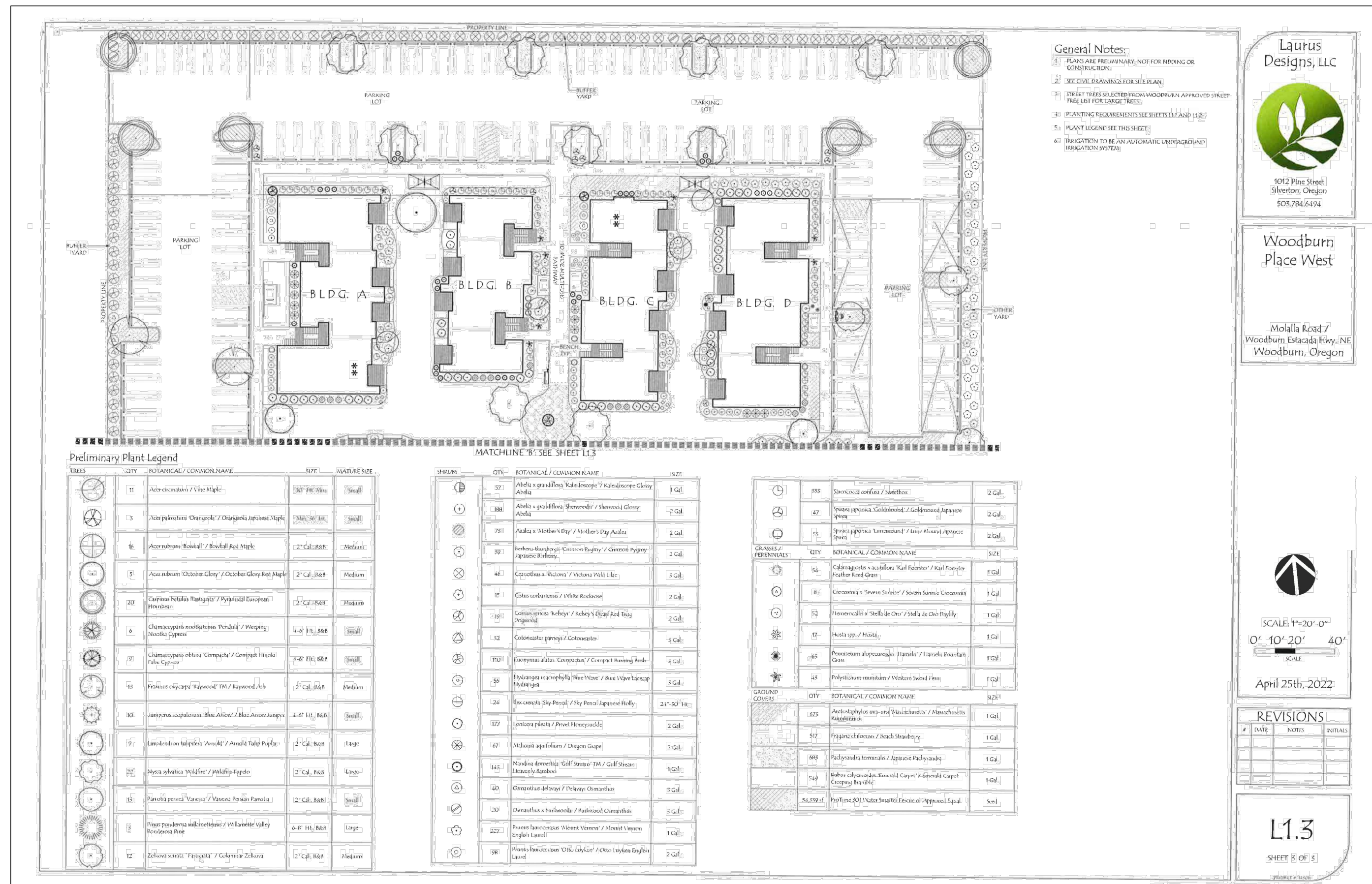
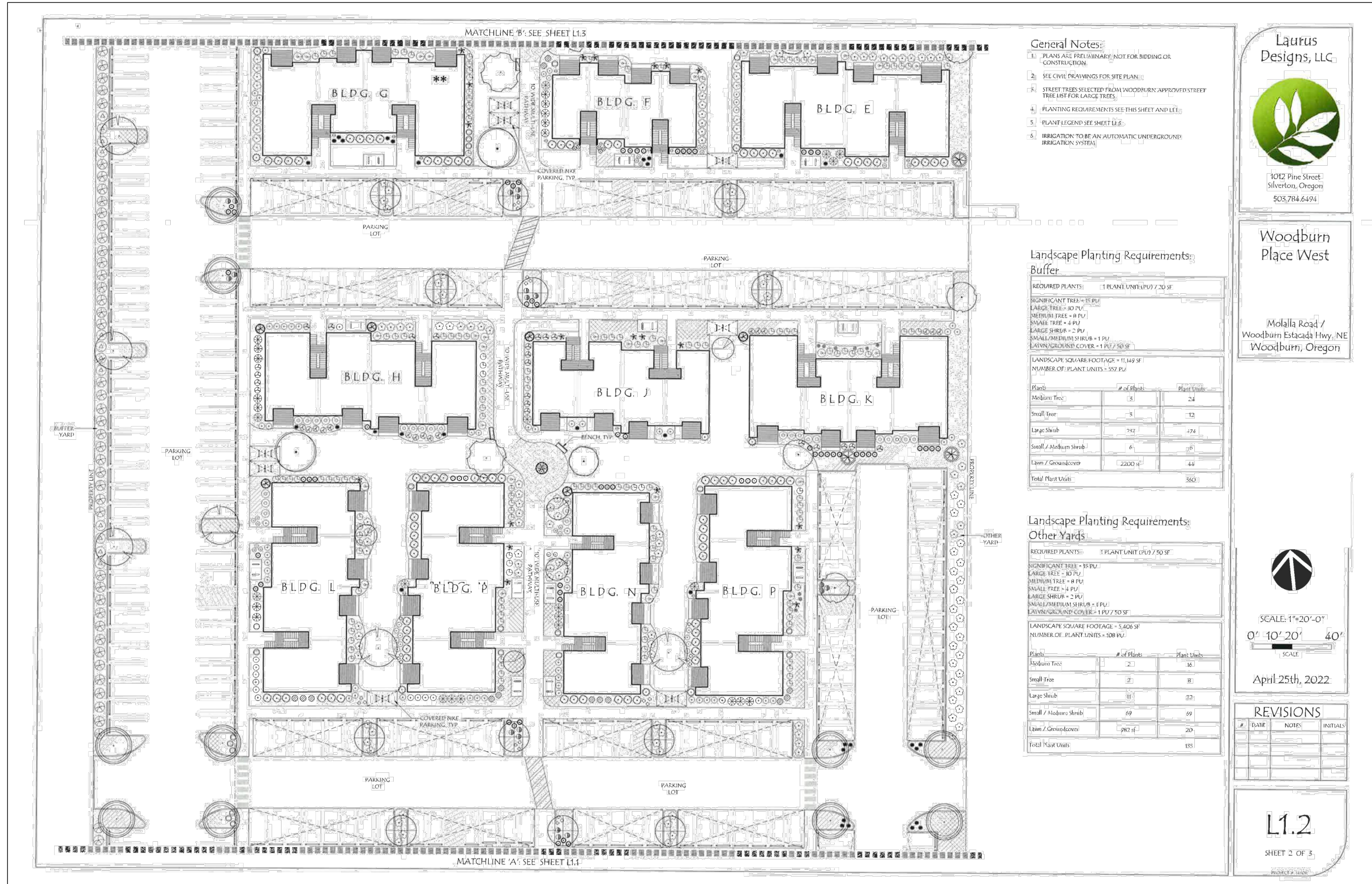
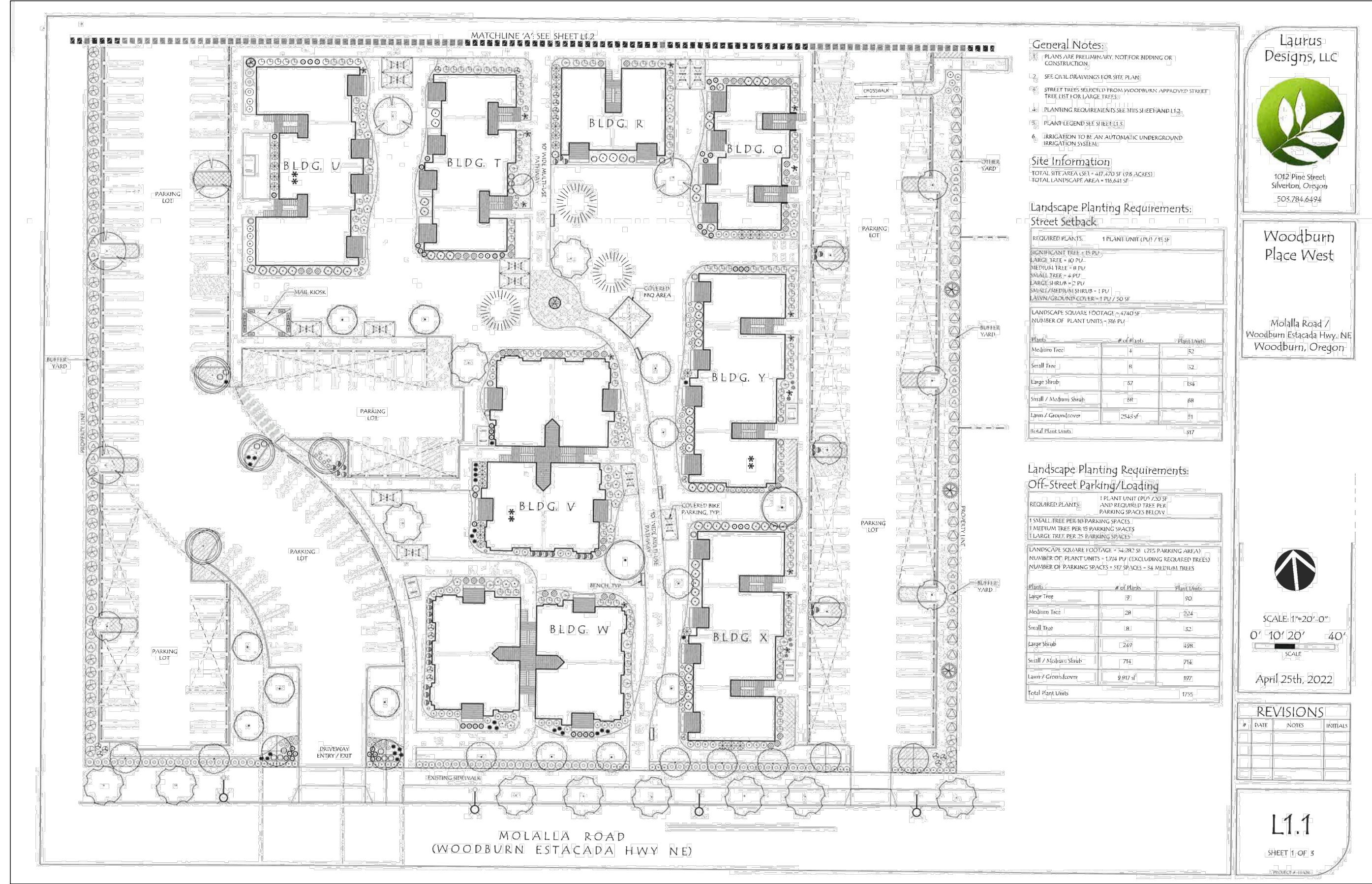
1. ALL CONSTRUCTION MATERIALS THAT COULD LEAD TO POLLUTION IF SPILLED/ NOT IN IMMEDIATE USE SHALL BE STORED IN A STORAGE BOX ONSITE.
2. FOR SPILL PREVENTION SPILL KITS AND OTHER SPILL CONTAINMENT DEVICES (I.E. WATTLES, ABSORBENT SOCKS/BOOMS, ORGANIC OIL ABSORBENT AGENT, ETZ.) SHALL BE KEPT ONSITE WITHIN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

**EROSION CONTROL PLANS DO NOT CONSTITUTE  
OR ALLOW ANY ONSITE CIVIL PIPE CONSTRUCTION**

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**EROSION CONTROL  
FINAL LANDSCAPING AND  
STABILIZATION PLAN**

**WOODBURN PLACE WEST**

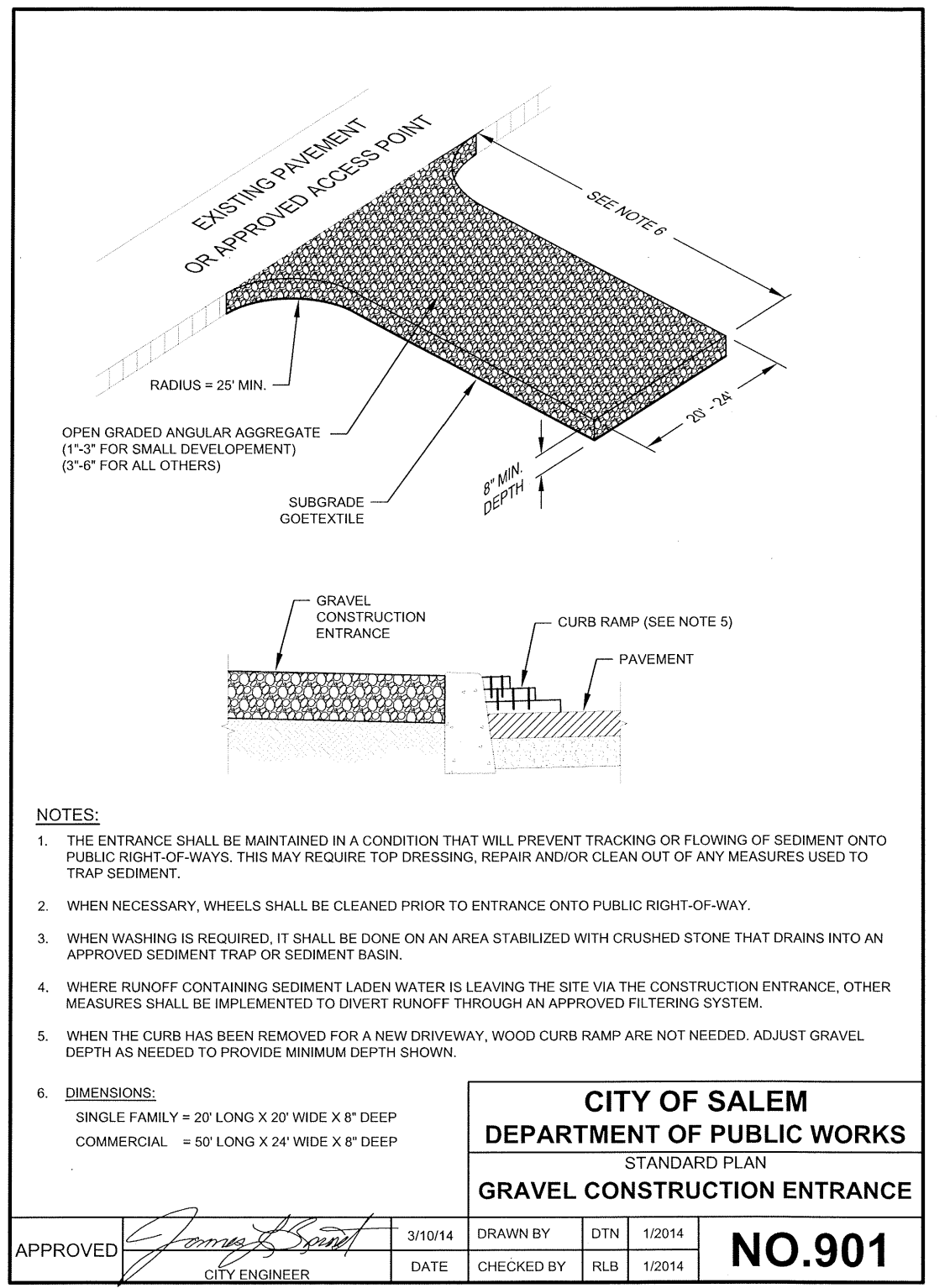
NO CHANGES, MODIFICATIONS OR REPRODUCTIONS TO BE MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER. DIMENSIONS & NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.

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Drawn: R.P.H.  
Checked: J.C.B.  
Date: MAY-2022  
Scale: AS SHOWN  
As-Built: \_\_\_\_\_



JOB # 7402  
**EC-2.5**

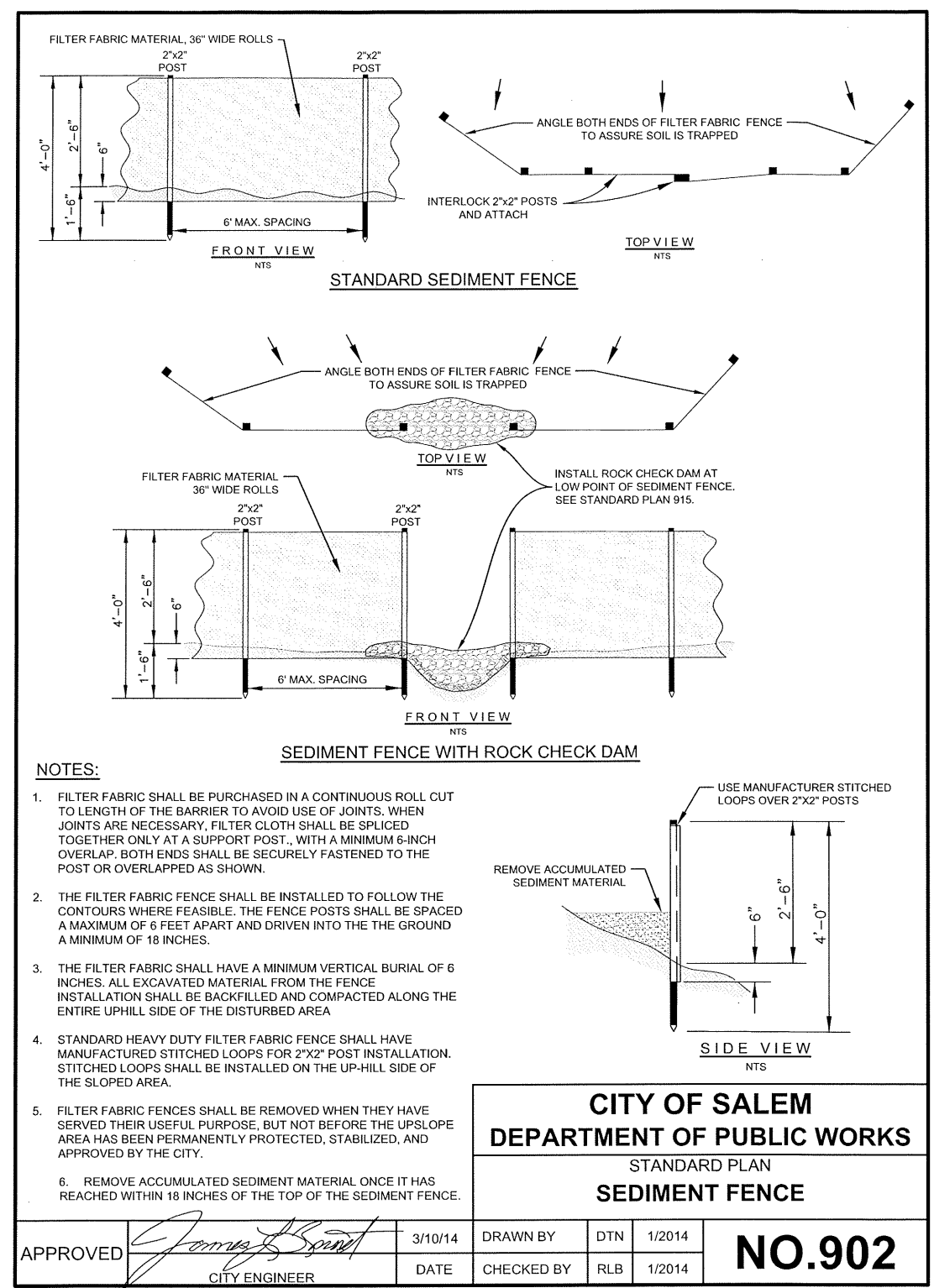




- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
  5. WHEN THE CURB HAS BEEN REMOVED FOR A NEW DRIVEWAY, WOOD CURB RAMP ARE NOT NEEDED. ADJUST GRAVEL DEPTH AS NEEDED TO PROVIDE MINIMUM DEPTH SHOWN.
  6. **DIMENSIONS:**  
SINGLE FAMILY = 20' LONG X 20' WIDE X 6\"/>

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**GRAVEL CONSTRUCTION ENTRANCE**

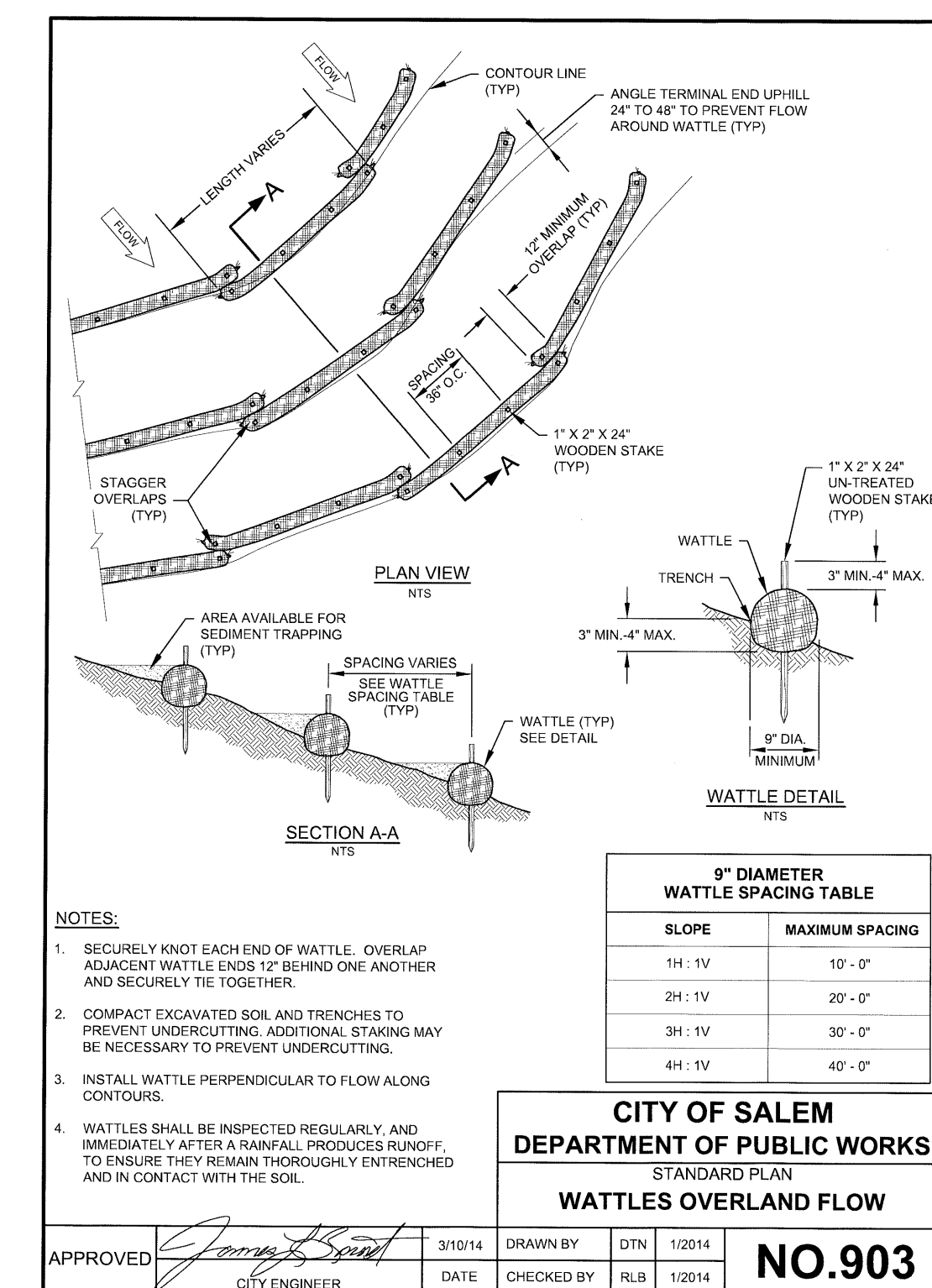
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CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARBER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 8-INCH OVERLAP. BOTH ENDS SHALL BE SECURELY FASTENED TO THE POST OR OVERLAPPED AS SHOWN.
  2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN INTO THE GROUND A MINIMUM OF 18 INCHES.
  3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6 INCHES. ALL EXCAVATED MATERIAL FROM THE FENCE INSTALLATION SHALL BE BACKFILLED AND COMPACTED ALONG THE ENTIRE UPHILL SIDE OF THE DISTURBED AREA.
  4. STANDARD HEAVY DUTY FILTER FABRIC FENCE SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2\"/>

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**SEDIMENT FENCE**

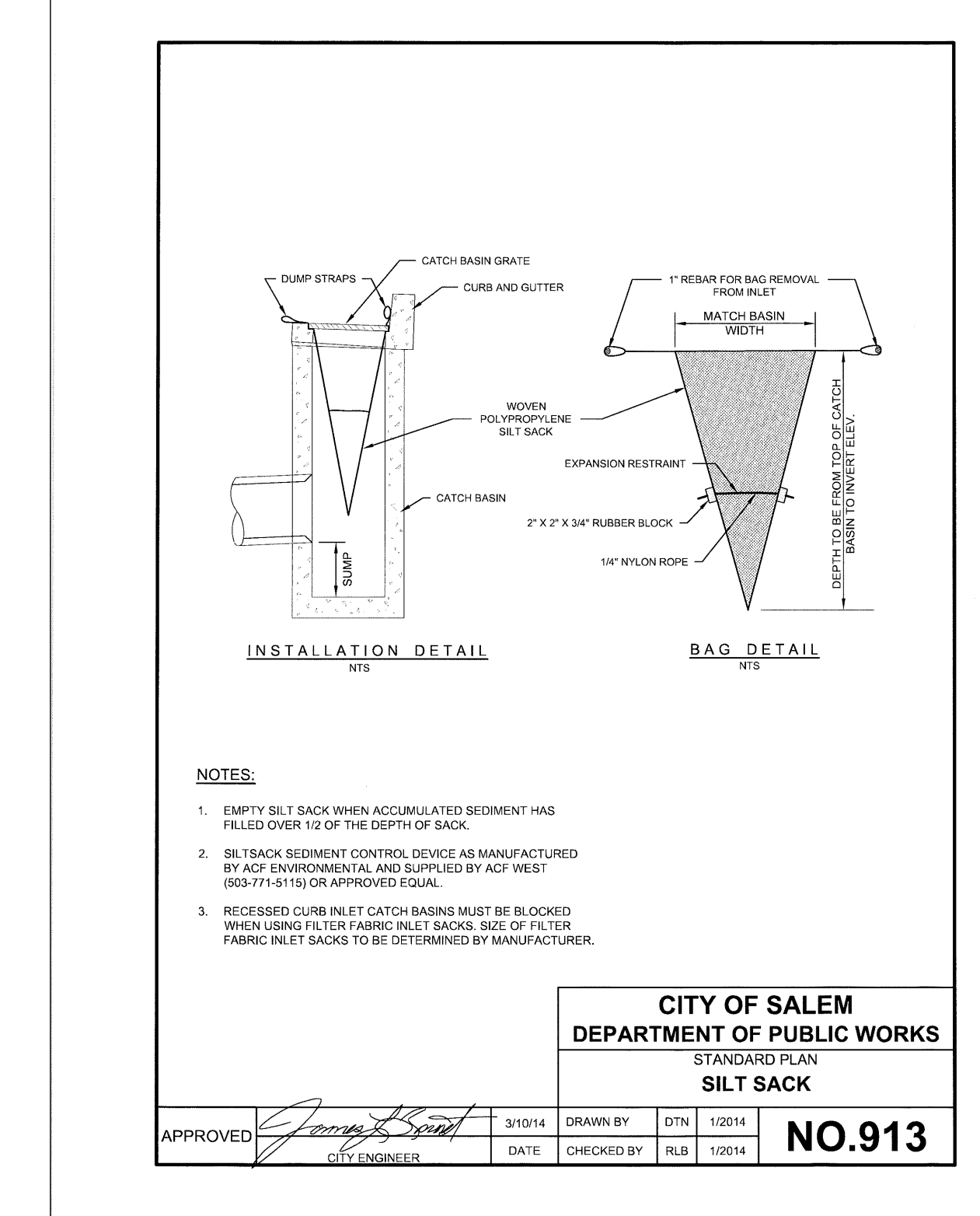
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CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. SECURELY KNOT EACH END OF WATTLE. OVERLAP ADJACENT WATTLE ENDS 12\"/>

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**WATTLE OVERLAND FLOW**

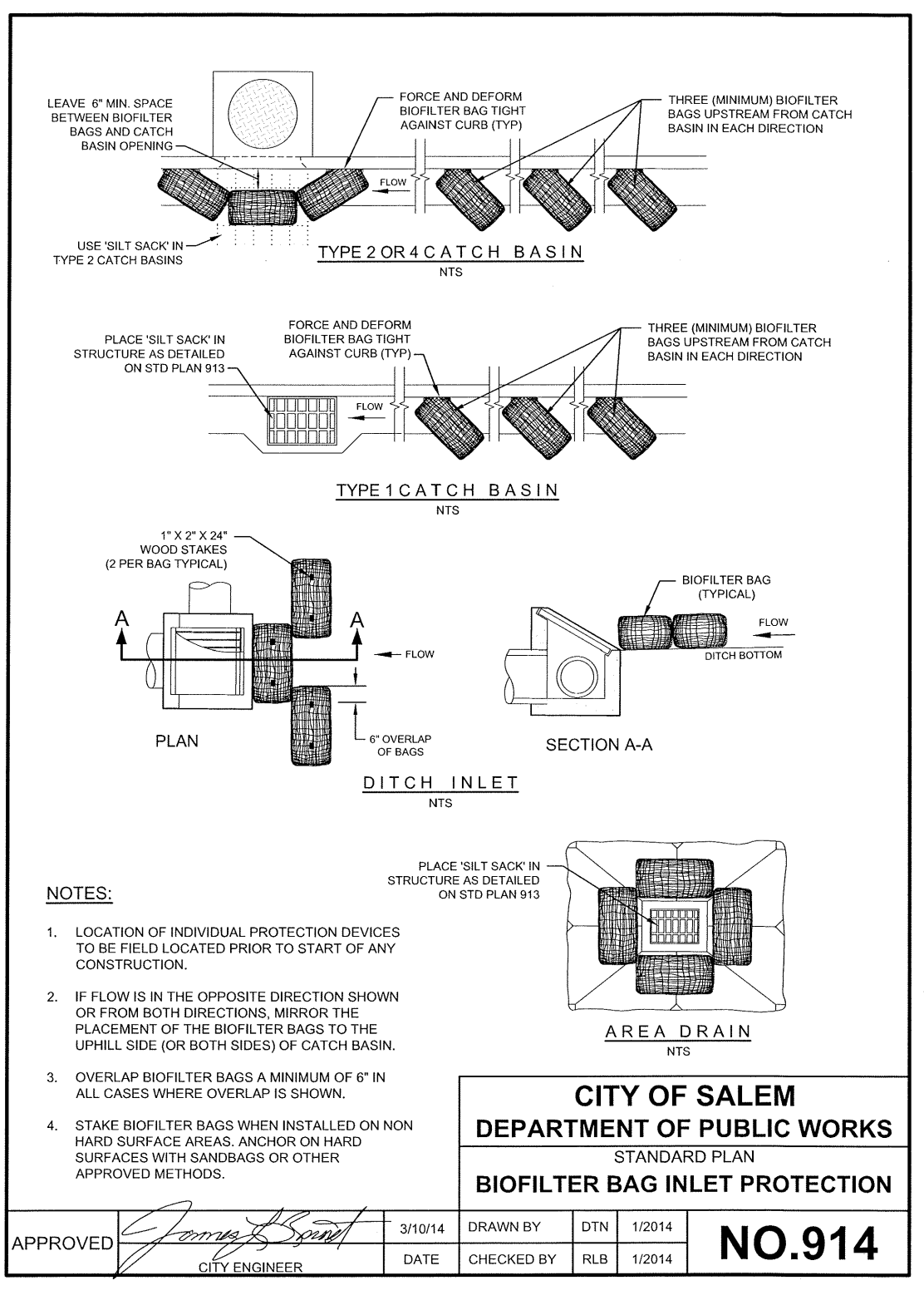
APPROVED <i>James B. Scott</i>	3/10/14	DRAWN BY	DTN	1/20/14	<b>NO.903</b>
CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. EMPTY SILT SACK WHEN ACCUMULATED SEDIMENT HAS FILLED OVER 1/2 OF THE DEPTH OF SACK.
  2. SILTSACK SEDIMENT CONTROL DEVICE AS MANUFACTURED BY ACF ENVIRONMENTAL AND SUPPLIED BY ACF WEST (883 771 9115) OR APPROVED EQUAL.
  3. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**SILT SACK**

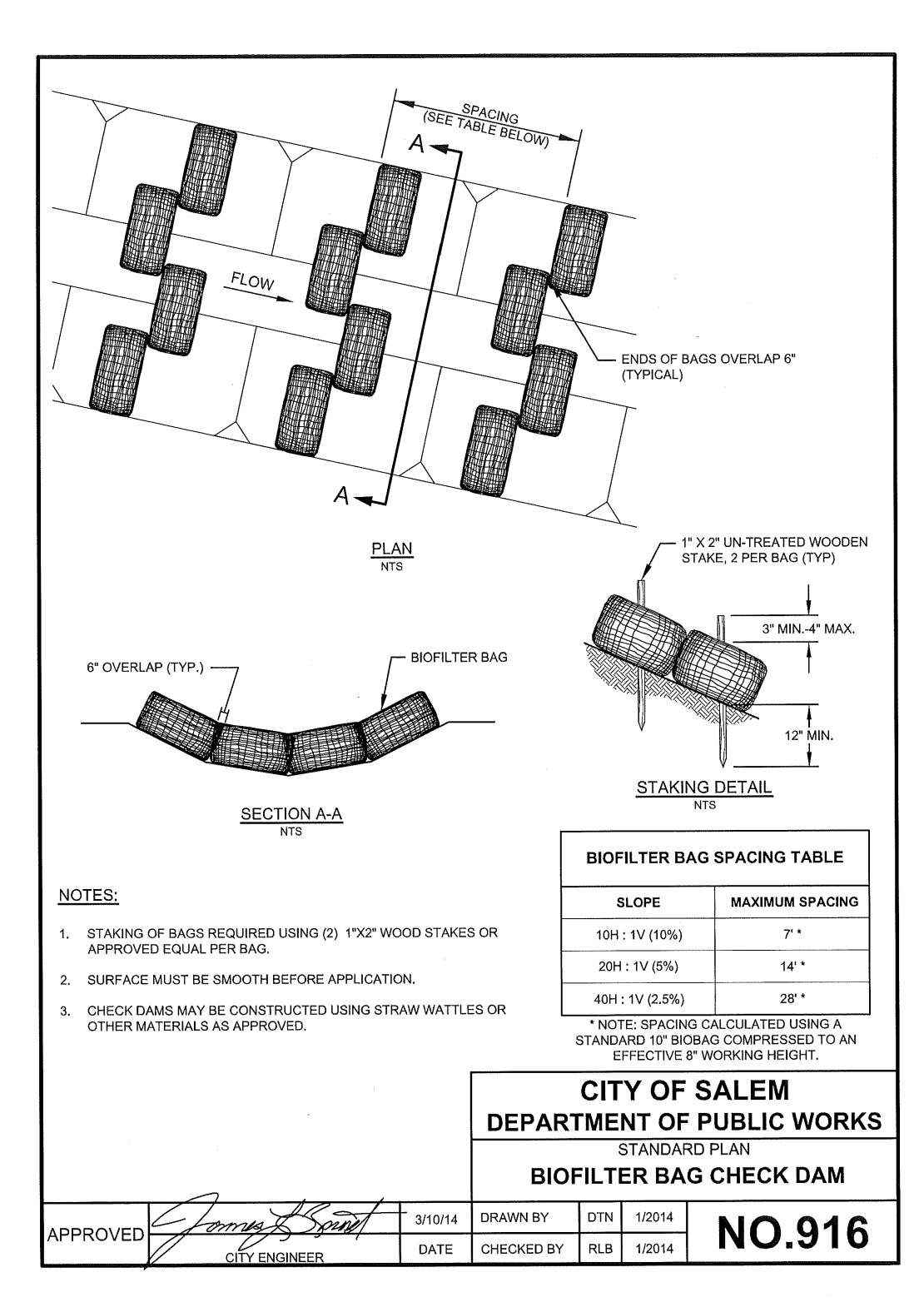
APPROVED <i>James B. Scott</i>	3/10/14	DRAWN BY	DTN	1/20/14	<b>NO.913</b>
CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. LOCATION OF INDIVIDUAL PROTECTION DEVICES TO BE FIELD LOCATED PRIOR TO START OF ANY CONSTRUCTION.
  2. IF FLOW IS IN THE OPPOSITE DIRECTION SHOWN OR FROM BOTH DIRECTIONS, MIRROR THE PLACEMENT OF THE BIOFILTER BAGS TO THE UPHILL SIDE (OR BOTH SIDES) OF CATCH BASIN.
  3. OVERLAP BIOFILTER BAGS A MINIMUM OF 6\"/>

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**BIOFILTER BAG INLET PROTECTION**

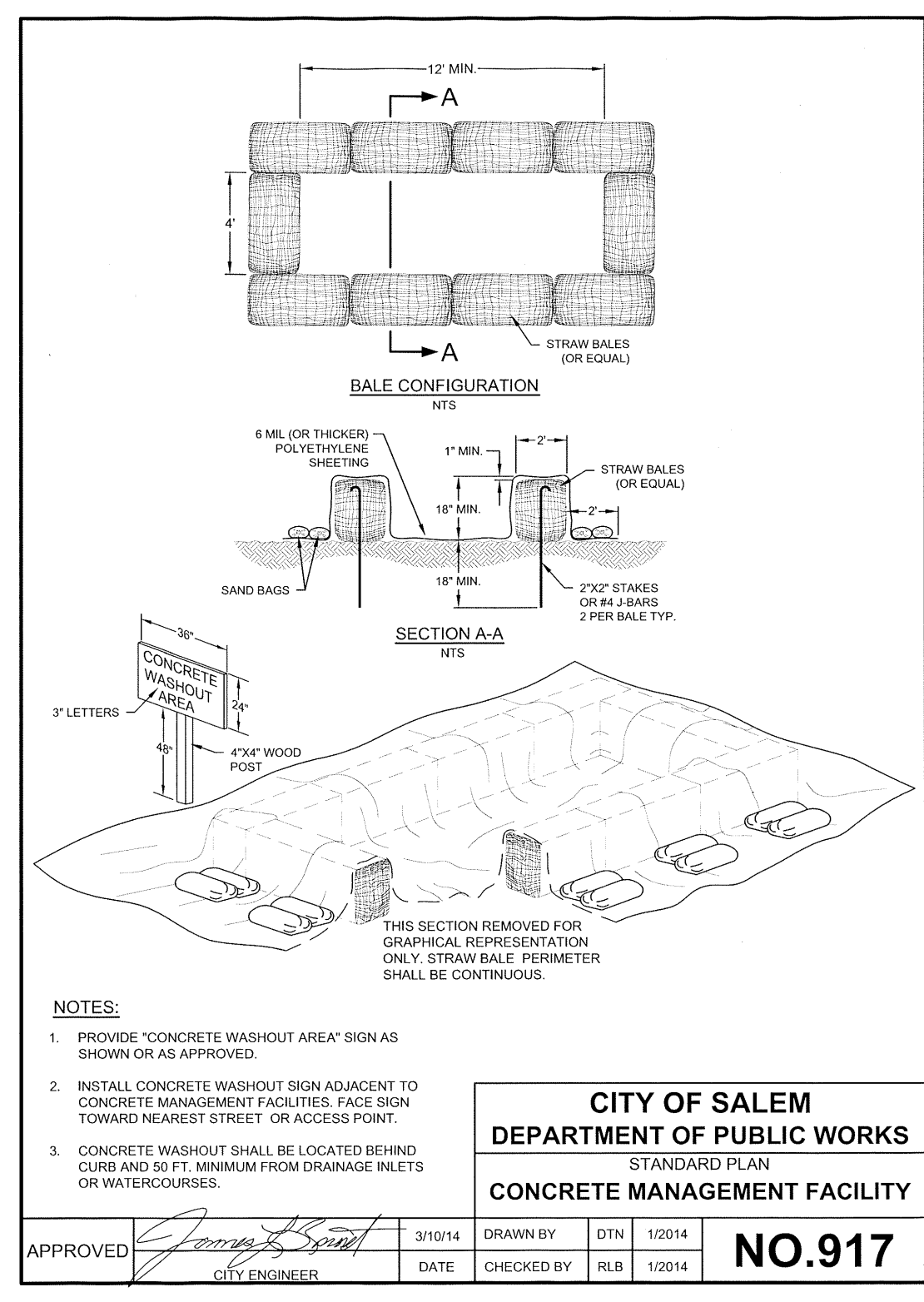
APPROVED <i>James B. Scott</i>	3/10/14	DRAWN BY	DTN	1/20/14	<b>NO.914</b>
CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. STAKING OF BAGS REQUIRED USING (2) 1\"/>

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**BIOFILTER BAG CHECK DAM**

APPROVED <i>James B. Scott</i>	3/10/14	DRAWN BY	DTN	1/20/14	<b>NO.916</b>
CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	



- NOTES:**
1. PROVIDE \"CONCRETE WASHOUT AREA\" SIGN AS SHOWN OR AS APPROVED.
  2. INSTALL CONCRETE WASHOUT SIGN ADJACENT TO CONCRETE MANAGEMENT FACILITIES. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT.
  3. CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES.

**CITY OF SALEM**  
DEPARTMENT OF PUBLIC WORKS  
STANDARD PLAN  
**CONCRETE MANAGEMENT FACILITY**

APPROVED <i>James B. Scott</i>	3/10/14	DRAWN BY	DTN	1/20/14	<b>NO.917</b>
CITY ENGINEER	DATE	CHECKED BY	RLB	1/20/14	

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Design: M.D.G.  
Drawn: R.P.H.  
Checked: J.C.B.  
Date: MAY-2022  
Scale: AS SHOWN  
As-Built: \_\_\_\_\_

**REGISTERED PROFESSIONAL ENGINEER**  
965  
MAY 14 1998  
EXPIRES: 06-30-2023

The applicant shall protect the preserved trees pursuant similar to City of Portland Title [11.60.030](#), specifically either the subsections set of C.1.a.(1), (3) and C.1.b., e., & f. (clear and objective) and D.; or, the subsections set of C.2.a., b., & d.-f. (arborist's discretion) and D. as modified below and shall do so between land use approval and issuance of certificate of occupancy (C of O):

C. Protection methods. The Tree Plan shall show that the contractor adequately protects trees to be preserved during construction using one of the methods described below:

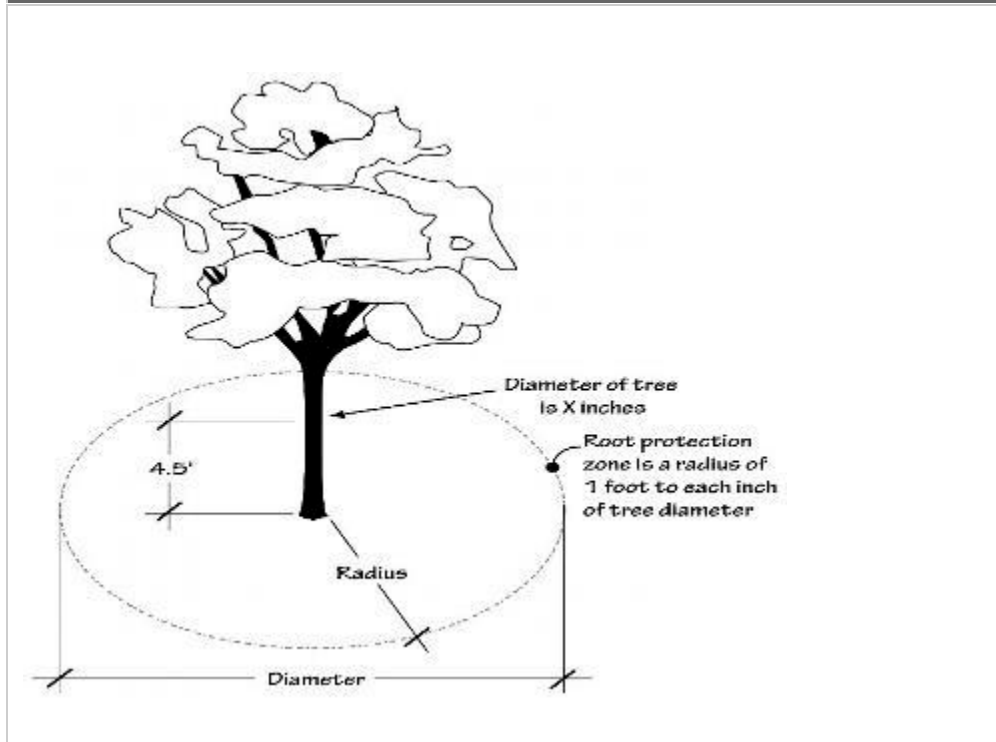
1. Clear & Objective Path.

a. A root protection zone is established as follows:

- (1) For trees on the development site - a minimum of 1 foot radius (measured horizontally away from the face of the tree trunk) for each inch of tree diameter (see Figure 80-2)

**Figure 80-2**

**Root Protection Zone**

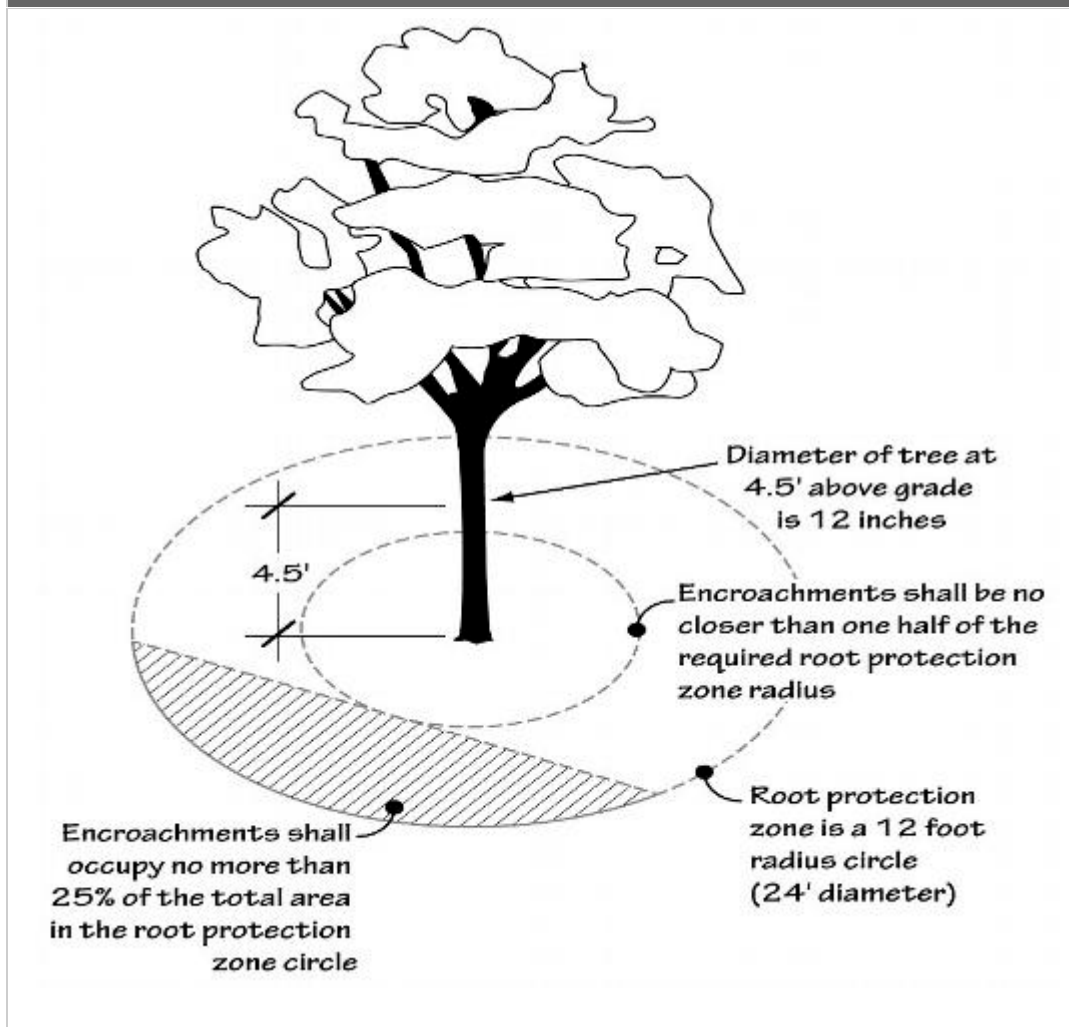


(3) Existing encroachments into the root protection zone, including structures, paved surfaces and utilities, may remain. New encroachments into the root protection zone are allowed provided:

- (a) the area of all new encroachments is less than 25 percent of the remaining root protection zone area when existing encroachments are subtracted; and
- (b) no new encroachment is closer than 1/2 the required radius distance (see Figure 60-1);

Figure 60-1

Permissible RPZ Encroachments



b. Protection fencing

(1) Protection fencing consisting of a minimum 6-foot high metal chain link construction fence, secured with 8-foot metal posts shall be established at the edge of the root protection zone and permissible encroachment area on the development site. Existing structures and/or existing secured fencing at least 3½ feet tall can serve as the required protective fencing.

(2) When a root protection zone extends beyond the development site, protection fencing is not required to extend beyond the development site. Existing structures and/or existing secured fencing at least 3½ feet tall can serve as the required protective fencing.

e. The following is prohibited within the root protection zone of each tree or outside the limits of the development impact area: ground disturbance or construction activity including vehicle or equipment access (but excluding access on existing streets or driveways), storage of

equipment or materials including soil, temporary or permanent stockpiling, proposed buildings, impervious surfaces, underground utilities, excavation or fill, trenching or other work activities; and

f. The fence shall be installed before any ground disturbing activities including clearing and grading, or construction starts; and shall remain in place until final inspection by Planning Division staff.

2. Arborist's Discretion. When the prescriptive path is not practicable, the applicant may propose alternative measures to modify the clear and objective root protection zone (RPZ), provided the following standards are met:

a. The alternative RPZ is prepared by an arborist who has visited the site and examined the specific tree's size, location, and extent of root cover, evaluated the tree's tolerance to construction impact based on its species and health, identified any past impacts that have occurred within the root zone, and forwarded a report through the developer to Planning Division staff;

b. The arborist has prepared a plan providing the rationale used to demonstrate that the alternate method provides an adequate level of protection based on the findings from the site visit described above;

d. If the alternative methods require the arborist be on site during construction activity, the applicant shall submit a copy of the contract for those services prior to permit issuance and a final report from the arborist documenting the inspections and verifying the viability of the tree(s) prior to final inspection by the Planning Division;

e. If the alternative tree protection method involves alternative construction techniques, an explanation of the techniques and materials used shall be submitted;

f. The arborist shall sign the tree preservation and protection plan and include contact information.

D. Changes to tree protection. Changes to the tree protection measures during the course of the development may be approved as a revision to a permit provided that the change is not the result of an unauthorized encroachment into a root protection zone (RPZ), and the applicant demonstrates that the tree protection standards of this Section continue to be met. When an unauthorized encroachment has occurred, the City may pursue an enforcement action or other remedy.