

DRAWINGS FOR:

YETI

KEUBLER BLVD & TURNER RD SE

FOR:

CLUTCH INDUSTRIES INC

360 BELMONT ST NE

SALEM, OR 97301



Know what's below.  
Call before you dig.

BENCHMARK UTILIZED:  
CITY OF SALEM #2142

ELEV: 237.11' NGVD 29

3" BRASS DISK LOCATED AT WINTER ST & JUDSON ST SE,  
SE CORNER OF INTERSEC, AT THE END OF RADIUS OF BACK OF WALK JUDSON,  
0.6 S OF BACK OF WALK, 6.05 S OF CURB LINE JUDSON,  
10.05 E OF E CURB LINE WINTER, 5.5 NE OF PP #1381,  
23' S C/L JUDSON, 27.95' E C/L WINTER; IN CONC POST

DISCLAIMER: UTILITIES DEPICTED ARE BASED ON EVIDENCE FOUND IN THE FIELD, MUNICIPALITY AND/OR OTHER GOVERNMENT ENTITY AS-BUILT PLANS, CONTRACTOR PLANS AND OTHER DOCUMENTS OF RECORD. BARKER SURVEYING ASSUMES NO RESPONSIBILITY FOR UTILITIES THAT ARE NO LONGER IN USE, INSTALLED AFTER THE DATE OF ACTUAL SURVEY, NOT IDENTIFIED OR NOT LOCATED. THIS INCLUDES UTILITIES UPON PUBLIC OR PRIVATE PROPERTY.

SPECIFIC UTILITY POSITIONS INDICATED ON THE GROUND SURFACE PROVIDED BY LOCATION SERVICES MAY VARY DUE TO UNDERGROUND DETECTION CAPABILITIES.

ABBREVIATIONS			
ASPH	ASPHALT	IRR	IRRIGATION
AD	AREA DRAIN	IE	INVERT ELEVATION
ASSY	ASSEMBLY	JB	JUNCTION BOX
BLDG, BLD	BUILDING	LP	LIGHT POLE
BW	BOTTOM OF WALL	M	METER, MAIN
CATV	CABLE TELEVISION	MB	MAILBOX
CB	CATCH BASIN	MH	MANHOLE
CO	CLEAN-OUT	OH	OVER-HEAD
CONC	CONCRETE	P/L, R	PROPERTY LINE
CL, C	CENTERLINE	PP	POWER POLE
DIP	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
EG	EDGE OF GRAVEL	PWR	POWER
EOP, EP	EDGE OF PAVEMENT	R, RAD	RADIUS
ELEV	ELEVATION	ROW, R/W	RIGHT-OF-WAY
EX, EXIST.	EXISTING	SS	SANITARY SEWER
FDC	FIRE DEPT. CONNECTOR	SD	STORM DRAIN
FT	FEET	SVC	SERVICE
FF	FINISH FLOOR	SWK, S/W	SIDEWALK
FG	FINISH GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	TEL	TELEPHONE
FM	FORCE MAIN	TR	TRANSFORMER
GRAV	GRAVEL	TS	TRAFFIC SIGNAL
GM	GAS METER	TW	TOP OF WALL
GP	GATE POST	TYP	TYPICAL
GS	GROUND SHOT	UG, U/G	UNDER GROUND
GV	GAS VALVE	UTL	UTILITY
HC	HANDICAP	VL	VAULT
HDPE	HIGH-DENSITY POLYETHYLENE	W/	WITH
HYD	HYDRANT	WM	WATER METER
IR	IRON ROD	WLM	WETLANDS MARKER
IP	IRON PIPE	YPC	YELLOW PLASTIC CAP

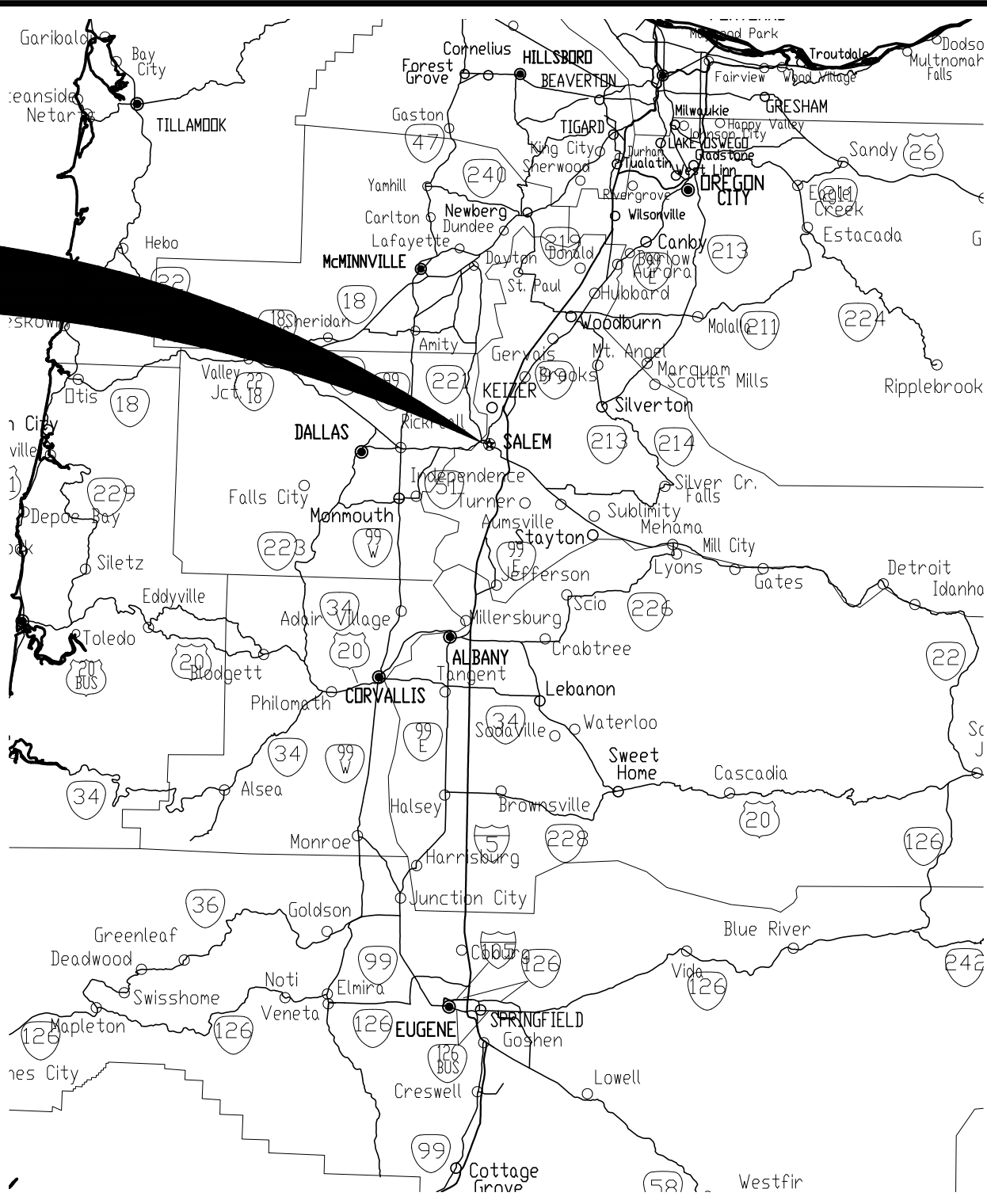
SYMBOLS			
AD	AREA DRAIN	SP	SIGN POST
CB	CATCH BASIN	PEDO	PEDESTAL
COO	CLEANOUT	MB	MAIL BOX
FH	FIRE HYDRANT	IV	IRRIGATION VALVE
GV	GAS VALVE	LP	LIGHT POLE
WV	WATER VALVE	UP	UTILITY/POWER POLES
GPW	GAS/POWER/WATER METER	TP	TEST PIT
DSO	DOWN SPOUT	MF	MONUMENT FOUND
TEL	MANHOLE TELEPHONE		
SD	MANHOLE STORM DRAIN		
SS	MANHOLE SANITARY SEWER		
TREE	TREES - *TREE NAME* DIAMETER (INCHES)/DRIP RADIUS (FEET)		
	NOTE: DIAMETER MEASURED AT BREAST HEIGHT		

LINE TYPES			
CATV LINE	CATV	CATV	CATV
COMMUNICATION LINE	COM	COM	COM
EASEMENT LINE	EASE	EASE	EASE
FENCE LINE	FENCE	FENCE	FENCE
FIBER OPTIC LINE	FOC	FOC	FOC
GAS LINE	GAS	GAS	GAS
EDGE OF GRAVEL LINE	EG	EG	EG
OVERHEAD LINE	OH	OH	OH
PHONE LINE	PH	PH	PH
POWER LINE	ELEC	ELEC	ELEC
SANITARY SEWER LINE	SS	SS	SS
STORM DRAIN LINE	SD	SD	SD
WATER LINE	W	W	W

PROJECT LOCATION



VICINITY MAP



PROJECT LOCATION

ITEM	PROPOSED	EXISTING
SANITARY SEWER	SS	SS
STORM DRAIN	SD	SD
WATER	W	W
GAS	G	G
TELEPHONE	T	T
POWER	P	P
TELEVISION	TV	TV
FENCE	X	X
RAILROAD		
CURB, DRIVEWAY, P.C.C. SIDEWALK		
HEDGE OR BRUSH		
TREES		
STREET OR ALLEY RIGHT OF WAY		
PLATTED LOT LINE		
PLATTED LOT LINE (ABANDONED)		
OWNERSHIP LINE		
EASEMENT OR TEMPORARY RIGHT OF WAY		
IMPROVEMENT DISTRICT BOUNDARY		
PROJECT CENTERLINE AND STATIONING	2 3 4 5+00	
CITY LIMITS LINE		

BARRICADE		
FLOW DIRECTION		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
CATCH BASIN		
JUNCTION BOX		
FIRE HYDRANT AND VALVE		
WATER METER		
WATER VALVE		
POWER POLE		
POWER POLE W/ANCHOR		
POLE W/LUMINARE		
LIGHT POLE		
SIGN POST		
MAILBOX		
TRAFFIC SIGNAL		
X=WALK SIGNAL		

SHEET INDEX			
SHT NO	DESCRIPTION		
C0.0	COVER SHEET, VICINITY AND LOCATION MAPS. DRAWING INDEX		
C1.0	EXISTING CONDITIONS, EROSION CONTROL, AND DEMOLITION PLAN		
C1.1	POST-DEVELOPED EROSION CONTROL PLAN		
C1.2	EROSION CONTROL NOTES		
C1.3	CITY OF SALEM EROSION CONTROL NOTES		
C1.4	EROSION CONTROL DETAILS		
C2.0	GRADING AND DRAINAGE PLAN		
C3.0	UTILITY PLAN		
C4.0	SURFACING PLAN		
C5.0	CONSTRUCTION NOTES		
C5.1	CONSTRUCTION NOTES		
C6.0	CONSTRUCTION DETAILS		
C6.1	CONSTRUCTION DETAILS		

VERIFY SCALE	1"	NO.	DATE	BY
BAR IS ONE INCH ON ORIGINAL DRAWING				
IF NOT ONE INCH ON SCALES ACCURACLY				
DSN.	JW	1		
DRN.	JH			
CKD.	JW			
DATE: NOV 2022				



**WESTECH ENGINEERING, INC.**  
CONSULTING ENGINEERS AND PLANNERS

**WE**

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E-mail: westech@westech-eng.com

CLUTCH INDUSTRIES

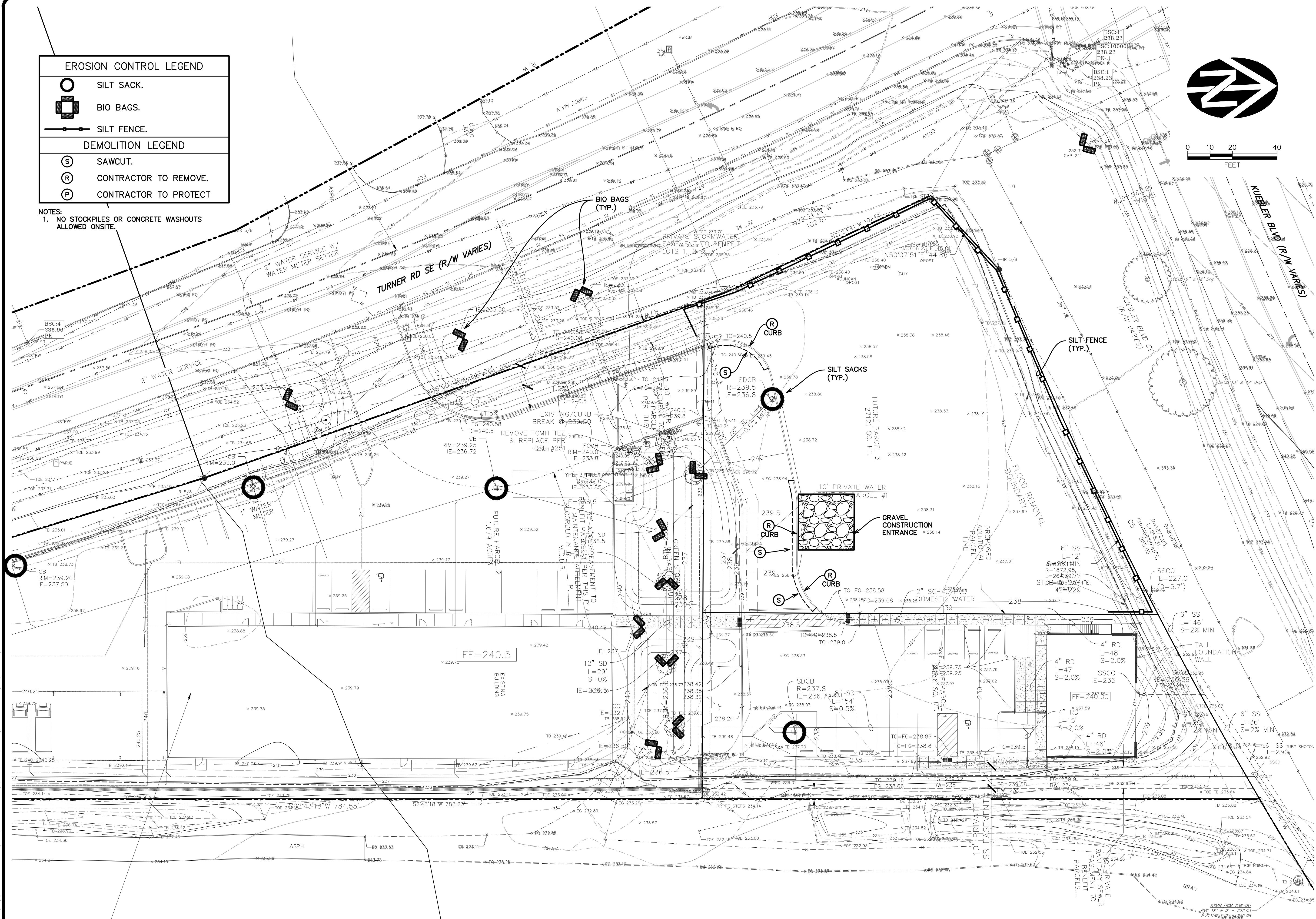
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COVER SHEET, VICINITY AND LOCATION MAPS, DRAWING INDEX

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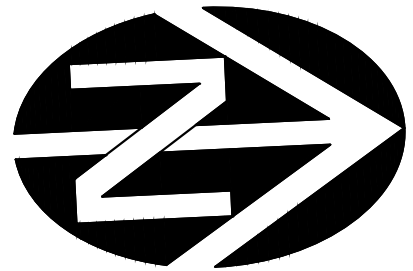
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EROSION CONTROL LEGEND	
	SILT SACK.
	BIO BAGS.
	SILT FENCE.
DEMOLITION LEGEND	
	SAWCUT.
	CONTRACTOR TO REMOVE.
	CONTRACTOR TO PROTECT

NOTES:  
1. NO STOCKPILES OR CONCRETE WASHOUTS ALLOWED ONSITE.

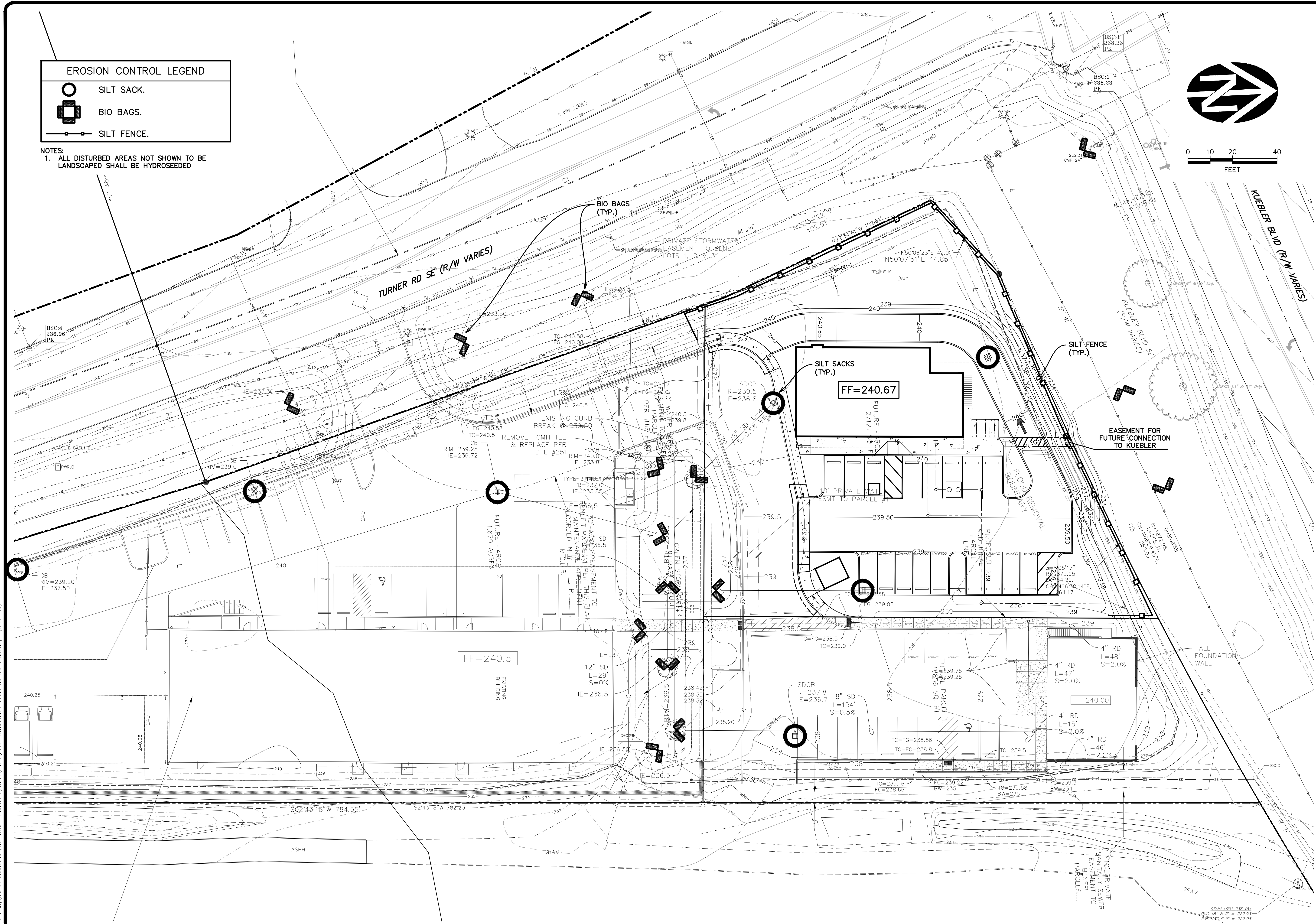


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FEET

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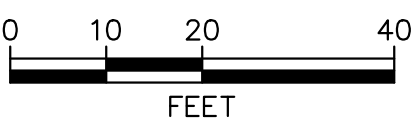
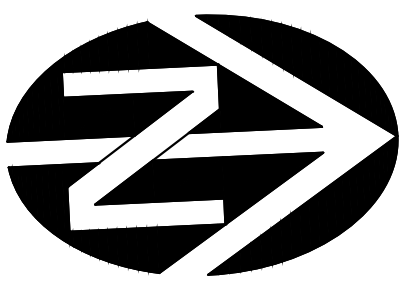
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EROSION CONTROL LEGEND

- SILT SACK.
- BIO BAGS.
- SILT FENCE.

NOTES:  
1. ALL DISTURBED AREAS NOT SHOWN TO BE LANDSCAPED SHALL BE HYDROSEEDING



VERIFIED SCALE  
1" = 40'  
IF NOT ONE INCH ON SCALE, SCALES ACCURATELY

DATE: NOV 2022

NO. 1

DESCRIPTION

BY

REGISTERED PROFESSIONAL ENGINEER  
NOV 12, 2008  
WILLIAM J. WELLS

RENEW: 6/30/2028

WESTECH ENGINEERING, INC.  
CONSULTING ENGINEERS AND PLANNERS

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CLUTCH INDUSTRIES

YETI

POST-DEVELOPED EROSION CONTROL PLAN

DRAWING

C1.1

JOB NUMBER

3426.0000.0



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- Rev. 12/15/15 By: Krista Ratliff

CONTROL MEASURE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
Silt Fencing	X	X	X	X	
Construction Entrance	X	X			
Sediment Traps	X	X	X	X	
Storm Inlet Protection	X	X	X	X	
Concrete Washout					
Rock Outlet Protection			X	X	X
Permanent Seeding and Planting					X
Phase 1: Prior to Ground Disturbance Phase 2: After Completion of Rough Grading Phase 3: After Installation of Storm Facilities Phase 4: After Paving & Construction Phase 5: After Project Completion and Cleanup					

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 whether 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 seven (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. Periods during which discharge is unlikely due to frozen conditions	Monthly. Resume monitoring immediately upon melt, or when weather conditions make discharge likely.

A comprehensive list of available Best Management Practices (BMP) options based on DEQ's 1200-C Permit Application and ESCP Guidance Document has been reviewed to complete this Erosion and Sediment Control Plan. Some of the above listed BMPs were not chosen because they were determined to not effectively manage erosion prevention and sediment control for this project based on specific site conditions, including soil conditions, topographic constraints, accessibility to the site, and other related conditions. As the project progresses and there is a need to revise the ESCP, an Action Plan will be submitted.

SOIL TYPE(S): PER MARION CO. SOIL SURVEY THE SITE SOILS INCLUDE, "CLACKAMAS GRAVELLY LOAM"  
EROSION HAZARD: PER MARION CO. SOIL SURVEY EROSION HAZARD RANGE IS "SLIGHT".  
SITE AREA: 0.63 Ac  
DISTURBANCE AREA: 0.47 Ac

1. Erosion control measures shall be maintained in such a manner as to ensure that sediment and sediment-laden water does not enter the drainage system, roadways, or violate applicable water quality standards.
2. The erosion control construction, maintenance, replacement and upgrading of the erosion control facilities is the responsibility of the Contractor until all construction is completed and approved, and permanent erosion control (i.e. vegetation/landscaping) is established on all disturbed areas.
3. All recommended erosion control procedures are dependent on construction methods, staging, site conditions, weather and scheduling. During the construction period, erosion control facilities shall be upgraded as necessary due to unexpected storm events and to ensure that sediment and sediment laden water does not leave the site.
4. The Contractor is responsible for control of sediment transport within project limits. If an installed erosion control system does not adequately contain sediment on site, then the erosion control measures shall be adjusted or supplemented by the Contractor as necessary to ensure that sediment laden water does not leave the site. Additional measures shall be provided as required to ensure that all paved areas are kept clean for the duration of the project. Additional interim measures will include, at a minimum, installation of silt fences in accordance with the details shown on the drawings. These measures shall be installed along all exposed embankments and cut slopes to prevent sediment transport.
5. All existing and newly constructed storm inlets and drains shall be protected until pavement surfaces are completed and/or vegetation is established.
6. Erosion control facilities and sediment fences on active sites shall be inspected by the Contractor at least daily during any period with measurable precipitation. Any required repairs or maintenance shall be completed immediately. The erosion control facilities on inactive sites shall be inspected and maintained by the Contractor a minimum of once a month or within 24 hours following the start of a storm event.
7. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment-laden water into the downstream system. The Contractor shall remove all accumulated sediment from all impacted catch basins and storm pipes prior to acceptance by the Owner.
8. The Contractor is solely responsible for protection of all adjacent property and downstream facilities from erosion and siltation during project construction. Any damage resulting from such erosion and siltation shall be corrected at the sole expense of the Contractor.
9. The Contractor shall provide site watering as necessary to prevent wind erosion of fine-grained soils.
10. Unless otherwise indicated on the drawings, all temporary erosion control facilities, including sediment fences, silt sacks, bio-bags, etc. shall be removed by the Contractor within 30 days after permanent landscaping/vegetation is established.
11. Sediment fences shall be constructed of continuous filter fabric to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6-inch overlap, and both ends securely fastened to a post.
12. Sediment fence shall be installed per drawing details. Sediment fences shall have adequate support to contain silt and sediment captured.
13. The standard strength filter fabric shall be fastened securely to stitched loops installed on the upslope side of the posts, and 6 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 30 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
14. Bio-filter bags shall be clean 100 percent wood product waste. Bags shall be 18-inch x 18-inch x 30-inch, weigh approximately 45 lbs., and be contained in a bag made of 1/2-inch plastic mesh.
15. Sediment barriers shall be maintained until the up-slope area has been permanently stabilized. At no time shall more than 10-inches of sediment be allowed to accumulate behind sediment fences. No more than 2 inches of sediment shall be allowed to accumulate behind bio-filter bags. Sediment shall be removed prior to reaching the above stated depths. New sediment barriers shall be installed uphill as required to control sediment transport.
16. Stabilized construction entrances shall be installed at the beginning of construction and 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.
17. The Contractor shall verify that all trucks are well sealed when transporting saturated soils from the site. Water drippage from trucks transporting saturated soils must be reduced to less than 1 gallon per hour prior to leaving the site.
18. The entrance shall be maintained in a condition that will prevent tracking or flow of mud onto the public right-of-way or approved access point. The entrance may require periodic top dressing as conditions demand, and repair and/or cleanout of any structures used to trap sediment.
19. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately, and the Contractor shall provide protection of downstream inlets and catch basins to ensure sediment laden water does not enter the storm drain system.
20. Temporary grass cover measures must be fully established by October 15th, or other cover measures (i.e. erosion control blankets with anchors, 3-inches minimum of straw mulch, 6 mil HDPE plastic sheet, etc.) shall be in place over all disturbed soil areas until April 30th. To establish an adequate grass stand for controlling erosion by October 15th, it is recommended that seeding and mulching occur by September 1st. Straw mulch, if used, shall not leave any bare ground visible through the straw.
21. Minimum wet weather slope protection. For slopes steeper than 3H:1V but less than 2H:1V, use Tensar/North American Green Type S150 erosion control blanket. For slopes 2H:1V or steeper, use Tensar/North American Green Type SC150 erosion control blanket. Use a minimum of 2-inches straw mulch or Tensar/North American Green Type S150 for slopes flatter than 3H:1V. Slope protection shall be placed on all disturbed areas immediately after completion of each section of construction activity, until the erosion control seeding has been established. As an option during temporary or seasonal work stoppages, a 6-mil HDPE plastic sheet may be placed over exposed slopes. The plastic sheet shall be provided with an anchor trench at the top and bottom of the slope, and shall be sandbagged on the slopes as required to prevent damage or displacement by wind.
22. Permanent erosion control vegetation on all embankments and disturbed areas shall be re-established as soon as construction is completed.
23. Soil preparation. Topsoil should be prepared according to landscape plans, if available, or recommendations of grass seed supplier. It is recommended that slopes be textured before seeding by rack walking (i.e. driving a crawling tractor up and down the slopes to leave a pattern of clear imprints parallel to slope contours) or other method to provide stable areas for seeds to rest.
24. When used, hydromulch shall be applied with grass seed at a rate of 2000 lbs. per acre between April 30 and June 10, or between September 1 and October 1. On slopes steeper than 10 percent, hydrosseed and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology to be in accordance with seed supplier recommendations.
25. When used in lieu of hydromulch, dry, loose, weed free straw used as mulch shall be applied at a rate of 4000 lbs. per acre (double the hydromulch application requirement). Anchor straw by working in by hand or with equipment (rollers, cleat trackers, etc.). Mulch shall be spread uniformly immediately following seeding.
26. When conditions are not favorable to germination and establishment of the grass seed, the Contractor shall irrigate the seeded and mulched areas as required to establish the grass cover.
27. Seeding. Recommended erosion control grass seed mix is as follows. Dwarf grass mix (low height, low maintenance) consisting of dwarf perennial ryegrass (80 % by weight), creeping red fescue (20 % by weight). Application rate shall be 100 lbs. per acre minimum.
28. Grass seed shall be fertilized at a rate of 10 lbs. per 1000 S.F. with 16-16-16 slow release type fertilizer. Development areas within 50 feet of water bodies and wetlands must use a non-phosphorous fertilizer.
29. Prior to starting construction contractor shall acquire the services of a DEQ Certified Erosion and Sediment Control Inspector and shall submit an "Action Plan" to DEQ identifying their names, contact information, training and experience as required in Schedule A.6.b.i-ii of the 1200-C Permit
30. Contractor shall submit "Notice of Termination" to DEQ to end the 1200-C permit coverage once all soil disturbance activities have been completed and final stabilization of exposed soils has occurred.

<b>CLUTCH INDUSTRIES</b>  <b>YETI</b>	<b>EROSION CONTROL NOTES</b>	<b>DRAWING</b> <b>C1.2</b>	<b>JOB NUMBER</b> <b>3426.0000.0</b>	
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**WESTECH ENGINEERING, INC.**  
 CONSULTING ENGINEERS AND PLANNERS

3844 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302  
 Phone: (503) 585-2474    Fax: (503) 585-3986  
 E-mail: westech@westech-eng.com

**RENEWED: 6/30/2026**

**VERIFY SCALE**  
 BAR IS ONE INCH ON ORIGINAL DRAWING

THIS ONE INCH ON THIS DRAWING REPRESENTS THE FOLLOWING SCALES ACCORDINGLY

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REVIEW

REGISTERED PROFESSIONAL ENGINEER  
 WILLIAM J. WELLS  
 NO. 12,209  
 EXPIRATION DATE 12/12/2026



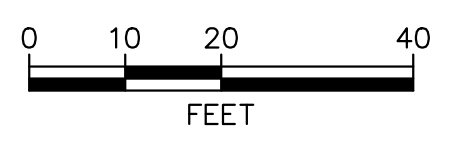
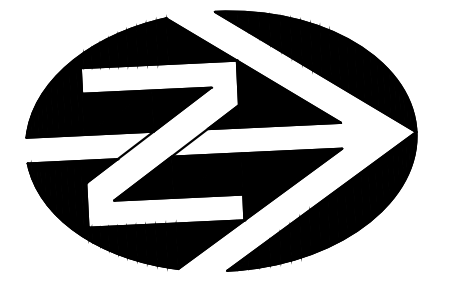
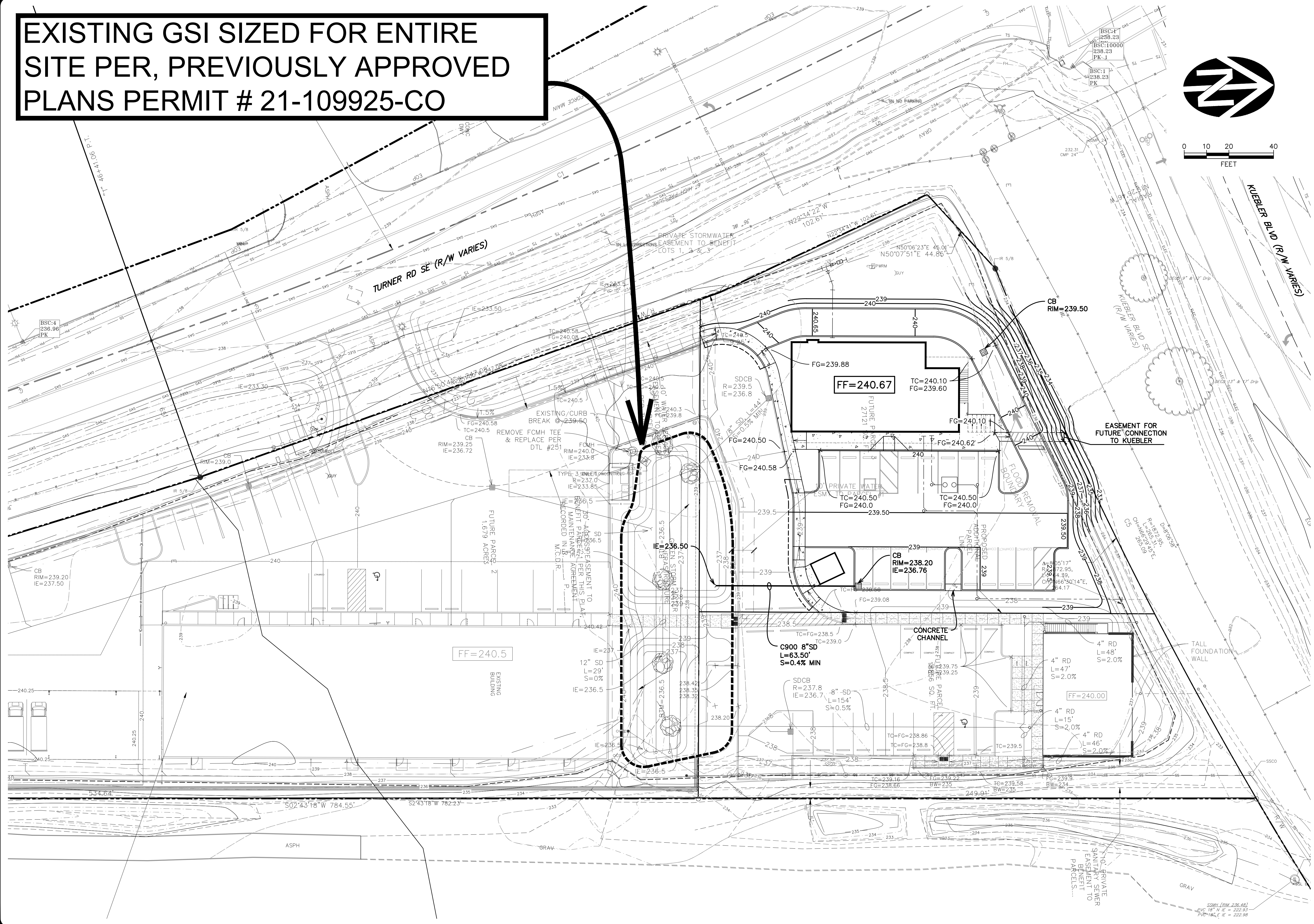








EXISTING GSI SIZED FOR ENTIRE SITE PER, PREVIOUSLY APPROVED PLANS PERMIT # 21-109925-CO



REVISIONS	DATE	NO.	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER  
NOV. 12, 2008  
WILLIAM J. WELLS  
RENEW: 6/30/2028

WESTECH ENGINEERING, INC.  
CONSULTING ENGINEERS AND PLANNERS  
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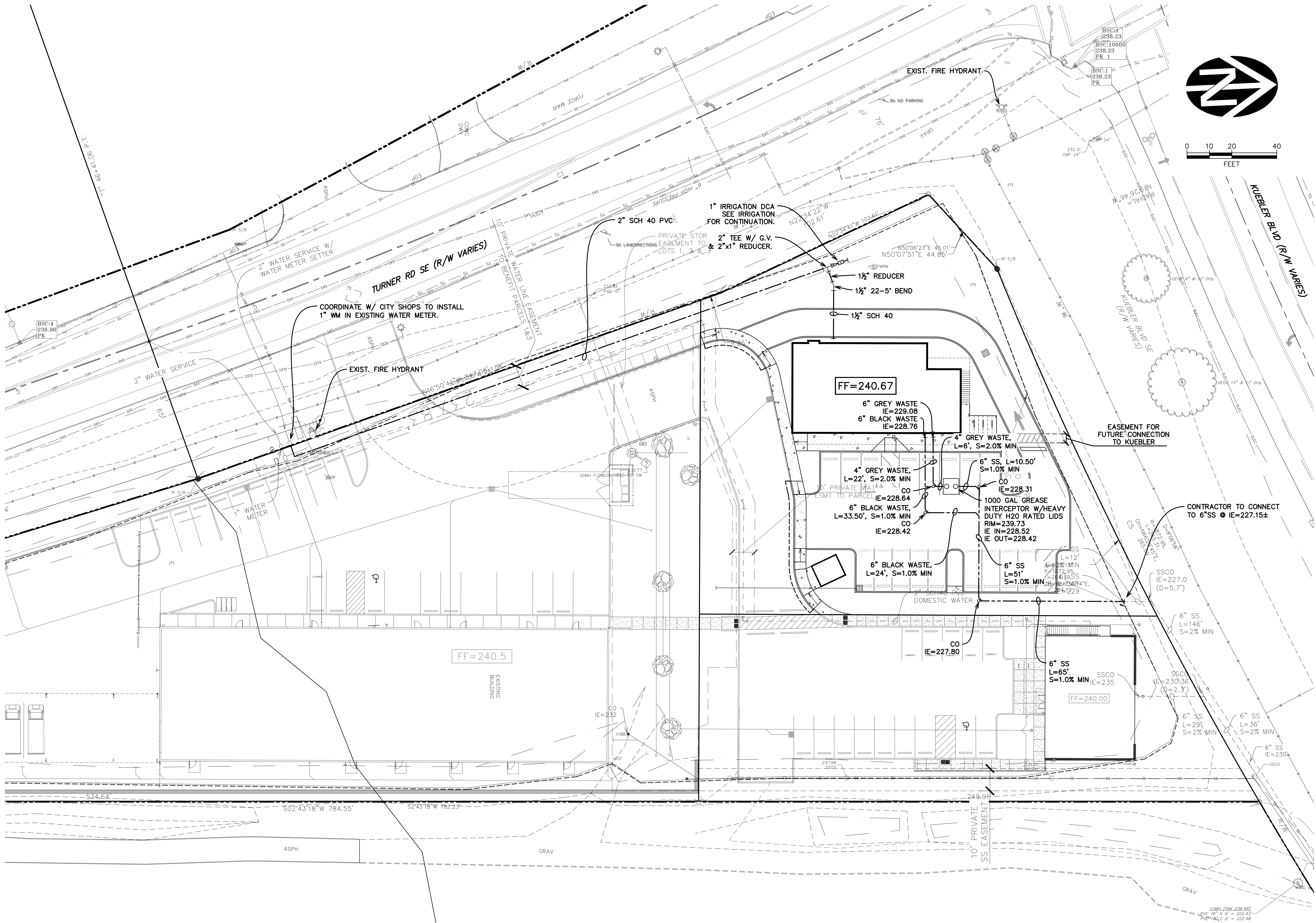
CLUTCH INDUSTRIES  
YETI

GRADING AND DRAINAGE PLAN

DRAWING  
C2.0

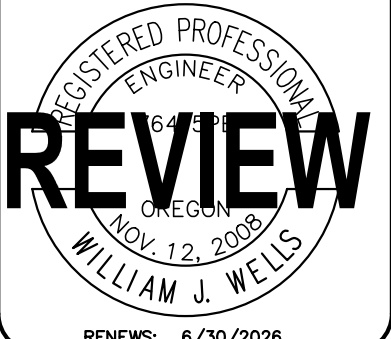
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**WESTECH ENGINEERING, INC.**  
CONSULTING ENGINEERS AND PLANNERS

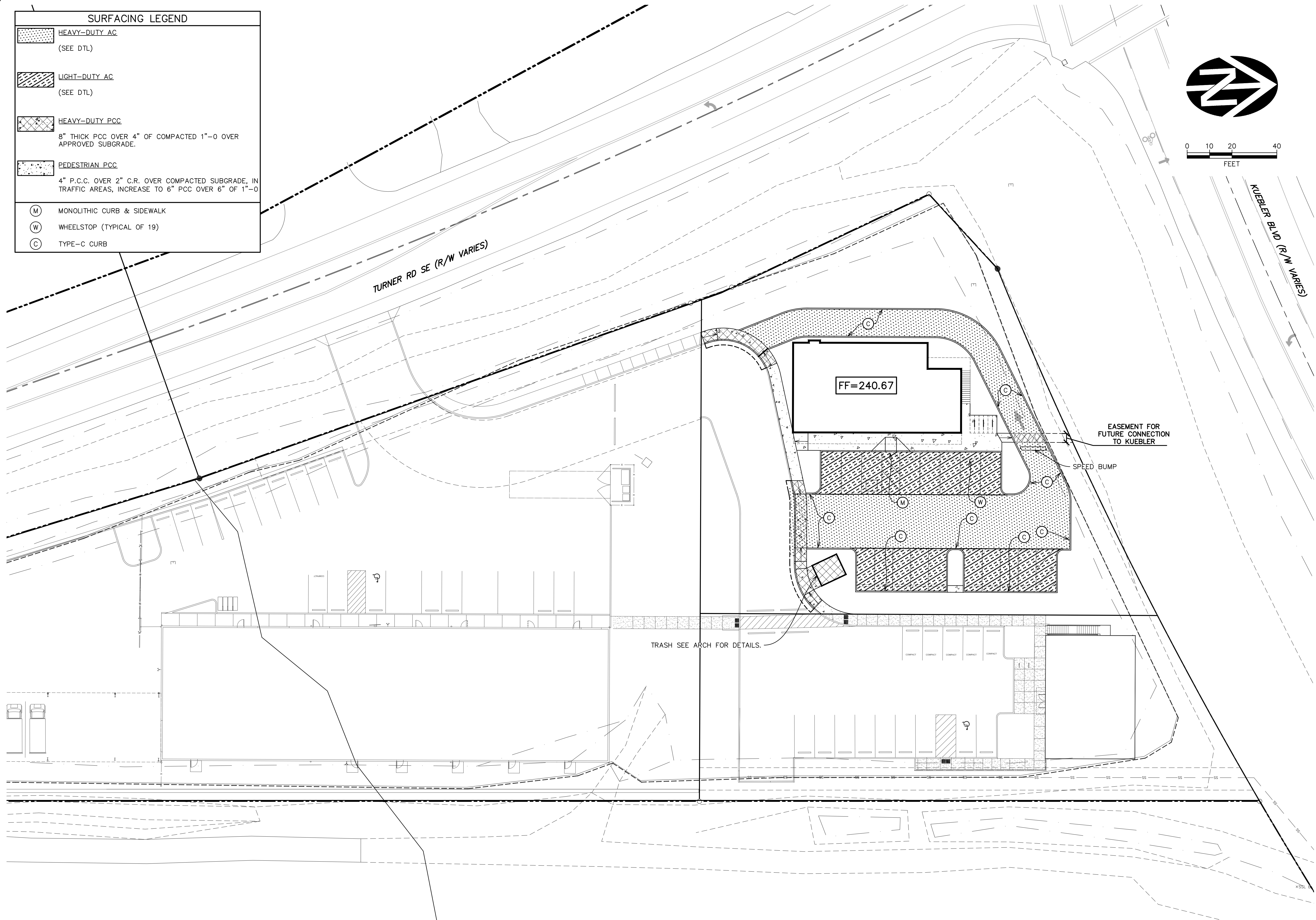
**WE**

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CLUTCH INDUSTRIES  
YETI  
UTILITY PLAN

DRAWING  
C3.0  
JOB NUMBER  
3426.0000.0





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99. Storm sewer pipe materials shall conform to the construction drawings and Approving Agency's requirements. Unless otherwise noted or shown on the drawings, storm sewer pipe materials with watertight joints shall conform to the attached "Storm Pipe Table". Contractor shall use uniform pipe material on each pipe run between structures unless otherwise directed or approved. Jointed HDPE pipe shall not be used for slopes exceeding ten percent (10%). All materials and workmanship for all private storm drains, including storm drains located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.

101. Catch basins and junction boxes shall be set square with buildings or with the edge of the parking lot or street wherein they lie. Storm drain inlet structures and paving shall be adjusted so water flows into the structure without ponding water.

103. Unless otherwise shown on the drawings, all storm pipe inlets & outfalls shall be beveled flush to match the slope wherein they lie.

104. Sweep (deflect) storm sewer pipe into catch basins and manholes as required. Maximum joint deflection shall not exceed 5 degrees or manufacturers recommendations, whichever is less.

105. Unless otherwise shown or directed, install storm sewer pipe in accordance with manufacturer installation guidelines.

106. After manhole channeling and prior to mandrel testing or final acceptance, flush and clean all sewers, and remove all foreign material from the mainlines, manholes and catch basins.

107. Mandrel Testing. Contractor shall conduct deflection test of flexible storm sewer pipes by pulling an approved mandrel through the completed pipeline following trench compaction. The diameter of the mandrel shall be 95% of the initial pipe diameter. Test shall be conducted not more than 30 days after the trench backfilling and compaction has been completed.

108. TV Inspection. Upon completion of all storm sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all mainlines in accordance with OSSC (ODOT/APWA) 445.74 to determine compliance with grade requirements of OSSC (ODOT/APWA) 445.40.b. The TV inspection shall be conducted by an approved technical service which is equipped to make audio-visual recordings of the TV inspections on DVD (VHS video tape acceptable only upon prior written approval by Public Works). Unless otherwise required by the agency with jurisdiction, a standard 1-inch diameter ball shall be suspended in front of the camera during the inspection to determine the depth of any standing water. Sufficient water to reveal low areas or reverse grades shall be discharged into the pipe immediately prior to the initiation of the TV inspection. The DVD and written report shall be delivered to the Approving Agency.

109. Prior to acceptance, the Owner's Representative may lamp storm lines upstream & downstream of structures to verify that the pipes are clean and there is no grout or concrete in the mainlines, and that there are no observable bellies in the line. When necessary, sufficient water to reveal low areas shall be discharged into the pipe by the Contractor prior to any such inspection by the Owner's Representative or the Approving Agency.

110. Street lights shall be installed after all other earthwork and public utility installations are completed and after rough grading of the property is accomplished to prevent damage to the poles.

111. Streetlight poles shall be set to a depth as specified by the manufacturer, but not less than 5 feet.

112. Street light poles shall be installed within one degree (1°) of plumb.

113. Contractor and franchise utility companies shall conform to SCS Section 309 for all street lighting installation.

114. Contractor shall coordinate with utility companies and pay all costs for procurement, installation, wiring, hook up and activation of streetlights.

115. Unless otherwise shown on the drawings or approved by jurisdiction having authority, all new franchise and private utilities (power, cable TV, telephone, gas, data, communication, control, alarms, etc.) shall be installed underground. Installation of such utilities or associated conduits in a common trench with public water, sanitary sewer, or storm sewer is prohibited.

116. Contractor shall coordinate with gas, power, telephone, and cable TV Company for location of conduits in common trenches, as well as location or relocation of vaults, pedestals, etc. The Contractor shall be responsible for providing franchise utility companies adequate written notice of availability of the open trench (typically 10 days minimum), and reasonable access to the open trench. Unless otherwise approved in writing by the Approving Agency, all above-grade facilities shall be located in PUEs (where PUEs exist or will be granted by the development), and otherwise shall be placed in a location outside the proposed sidewalk location.

117. Unless otherwise approved by the Approving Agency, installation of private utilities (including either franchise utilities or private water, sewer or storm services) in a common trench with or within 3 feet horizontally of and paralleling public water, sanitary sewer or storm drains is prohibited.

118. Power, telephone and TV trenching and conduits shall be installed per utility company requirements with pull wire. Contractor shall verify with utility company for size, location and type of conduit before construction, and shall ensure that trenches are adequately prepared for installation per utility company requirements. All changes in direction of utility conduit runs shall have long radius steel bends.

119. Contractor shall notify and coordinate with franchise utilities for removal or relocation of power poles, vaults, pedestals, manholes, etc. to avoid conflict with Public utility structures, fire hydrants, meters, sewer or storm laterals, etc.

STORM PIPE TABLE			
Cover Depth	6" – 18" Diameter		
Less than 2' Cover	Class 50 ductile iron pipe with bell and spigot joints and rubber gasket.		
2' to 2-1/2' Cover	Pipe specified for lesser cover depths –or– Class 3, ASTM C-14 non-reinforced concrete pipe with bell and spigot joints & rubber gaskets, ASTM 150 Type II cement. –or– PVC pipe conforming to AWWA C900 DR 18 (6"-12") or AWWA C-905 (14"-18") with bell and spigot joints and rubber gasket		
2-1/2' to 15' Cover	Pipe specified for lesser cover depths –or– PVC pipe conforming to ASTM D-3034 PVC SDR 35 (6"-15") or ASTM F-679 PVC solid wall SDR 35 (18") with bell and spigot joints and rubber gasket. –or– HDPE (high density polyethylene) pipe conforming to AASHTO M-252, (8"-10") or AASHTO M-294 (12"-18"). For slopes less than 6% the pipe shall be ADS N-12 IB ST, Hancor Sure-Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N-12 IB WT, Hancor Blue Seal, or approved equal with watertight pressure testable fittings, –except– jointed HDPE (high density polyethylene) pipe referenced above not permitted for depth to invert greater than 12 feet.		
More than 15' Cover	See construction drawings.		
REQUIRED TESTING AND FREQUENCY TABLE		Party Responsible for payment	
		Contractor	Others (see note 1)
Streets, Fire Lanes, Common Driveways, Parking Lots, Pads, Fills, etc.			
Subgrade	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3
Engineered Fills	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency	✓	See note 2 & note 5
Baserock	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3
Asphalt	1 Test/6000 S.F./Lift (4 min), locations acceptable to AA (typ. alternate as above)	✓	See note 2
Piped Utilities, All			
Trench Backfill	1 Test/200 Foot Trench/Lift (4 min)	✓	See note 2
Trench AC Restoration	1 Test/300 Foot Trench (4 min)	✓	See note 2
Water			
Pressure Test	(to be witnessed by Owner's Representative or approving agency)	✓	See note 4
Bacterial Water Test	Per Oregon Health Division	✓	See note 2
Chlorine Residual Test	Per City Requirements	✓	
Sanitary Sewer			
Air Test	Per City or APWA Requirements, whichever is more stringent	✓	See note 4
Mandrel	95% of actual inside diameter	✓	See note 4
TV Inspection	All. Lines must be cleaned prior to TV work	✓	
Storm			
Mandrel	95% of actual inside diameter	✓	See note 4
TV Inspection	All. Lines must be cleaned prior to TV work	✓	
Concrete, Block, etc.			
Slump, Air & Cylinders for structural & reinforced concrete, equipment slabs, curbs, sidewalks & PCC pavements. Unless otherwise specified, one set of cylinders per 100 cubic yards (or portion thereof) of each class of concrete placed per day. Slump & air tests required on same load as cylinders.		✓	See note 2
Retaining Walls			
Building permit inspection and Special Inspection, as well as compaction testing on backfill, all in conformance with applicable State Building Code requirements		✓	See note 5 & note 6
Note 1: "Others" refers to Owner's authorized Representative or Approving Agency as applicable. Contractor responsible for scheduling testing. All testing must be completed prior to performing subsequent work. Note 2: Testing must be performed by an approved independent testing laboratory. Note 3: In addition to in-place density testing, the subgrade and base rock shall be proof-rolled with a loaded 10 yard dump truck provided by the Contractor. Baserock proofroll shall take place immediately prior to (within 24 hours of) paving, and shall be witnessed by the Owner's authorized Representative or approving agency. Location and pattern of testing and proofroll to be as approved or directed by said Owner's authorized Representative or approving agency. Note 4: To be witnessed by the Owner's Representative or approving agency. The Contractor shall perform pretests prior to scheduling witnessed waterline or sanitary sewer pressure tests, or pipeline mandrel test. Note 5: The approved independent laboratory retained by the Contractor shall provide a certification (stamped by an engineer licensed in the State of Oregon) that the subgrade was prepared and all engineered fills were placed in accordance with the provisions of the construction drawings and the contract documents. Note 6: Regardless of who is responsible for payment, the Contractor is responsible for scheduling and coordinating any and all required inspections and Special Inspections as required by applicable building codes or jurisdictions having authority.			

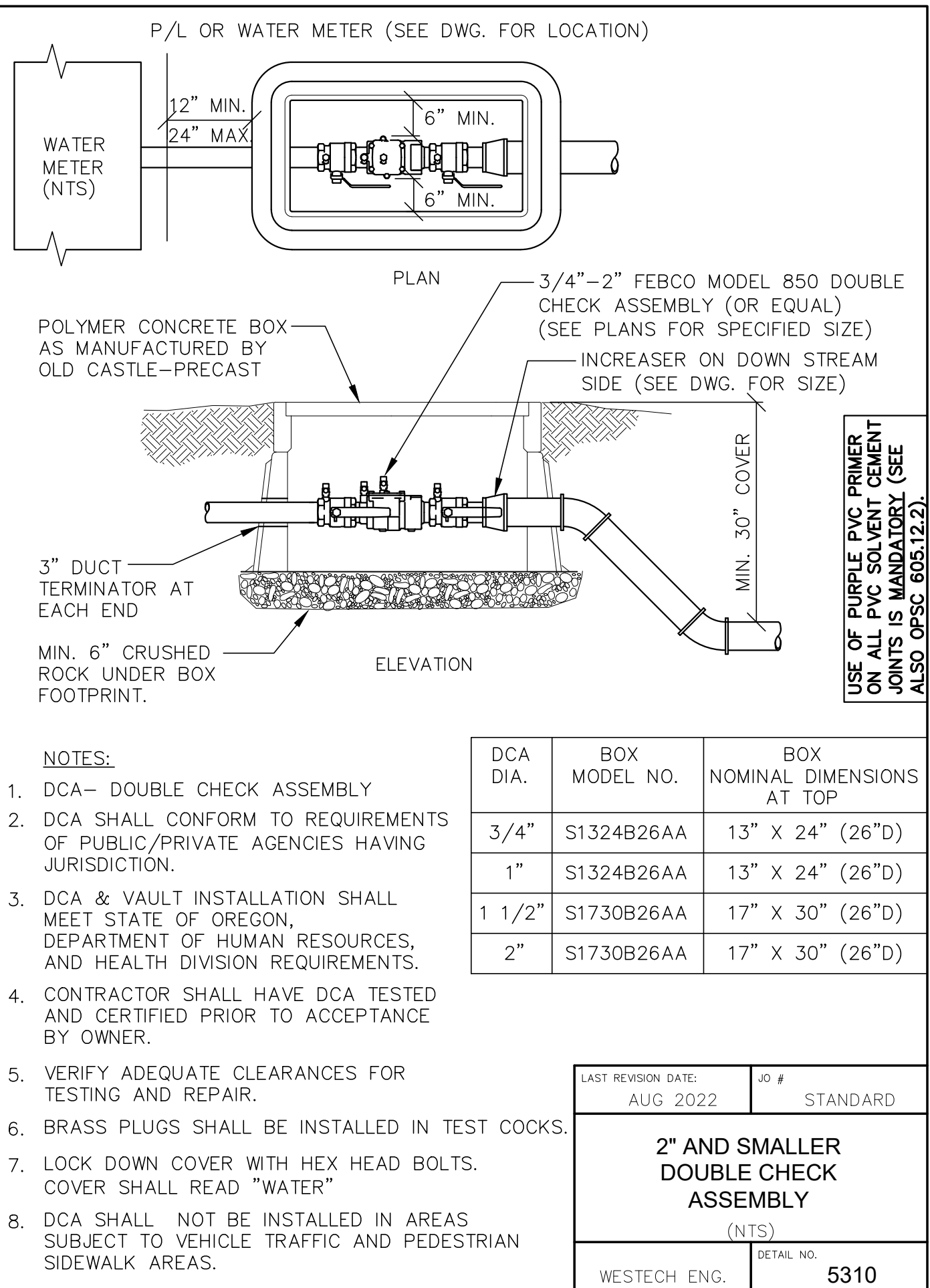
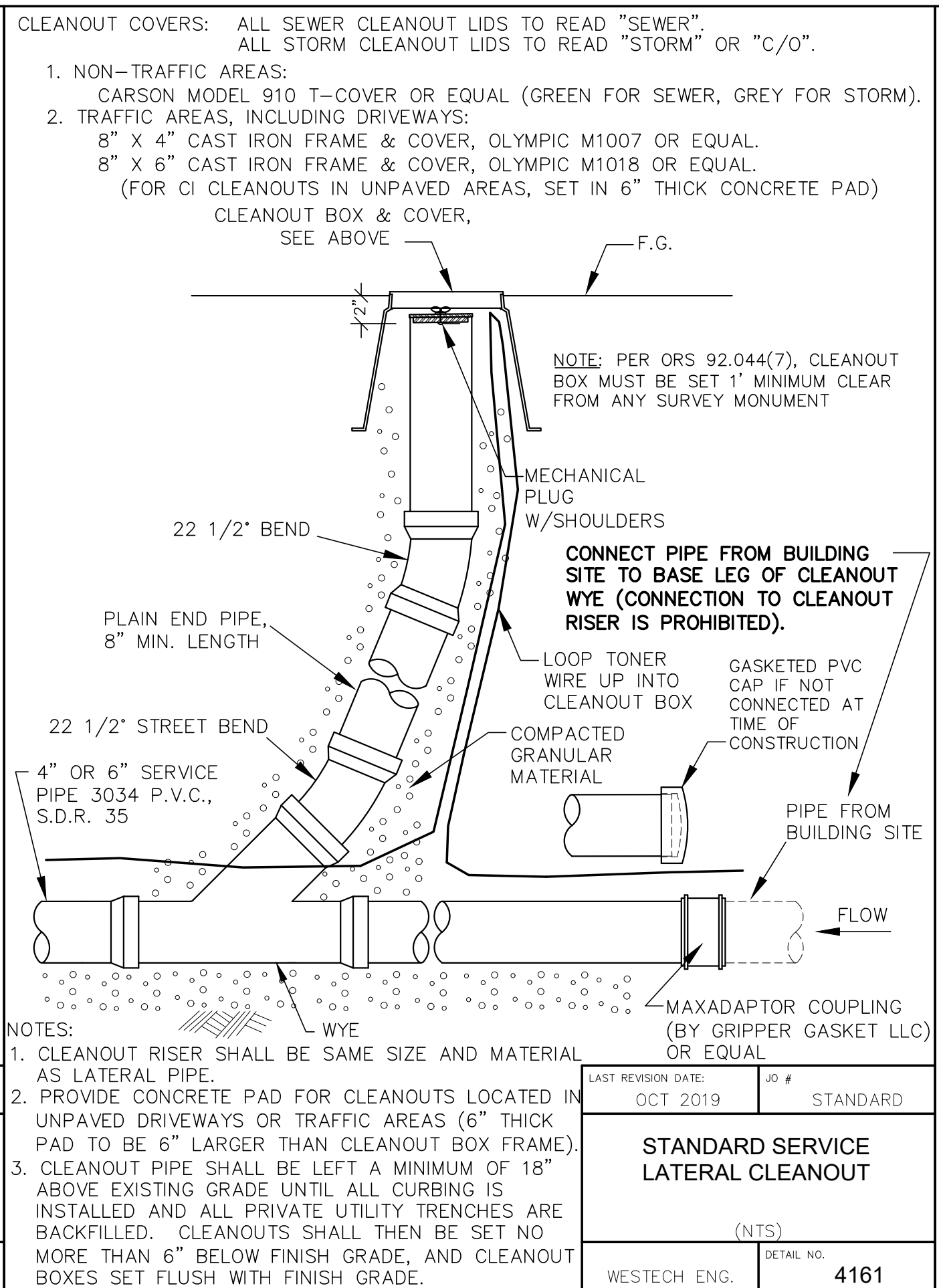
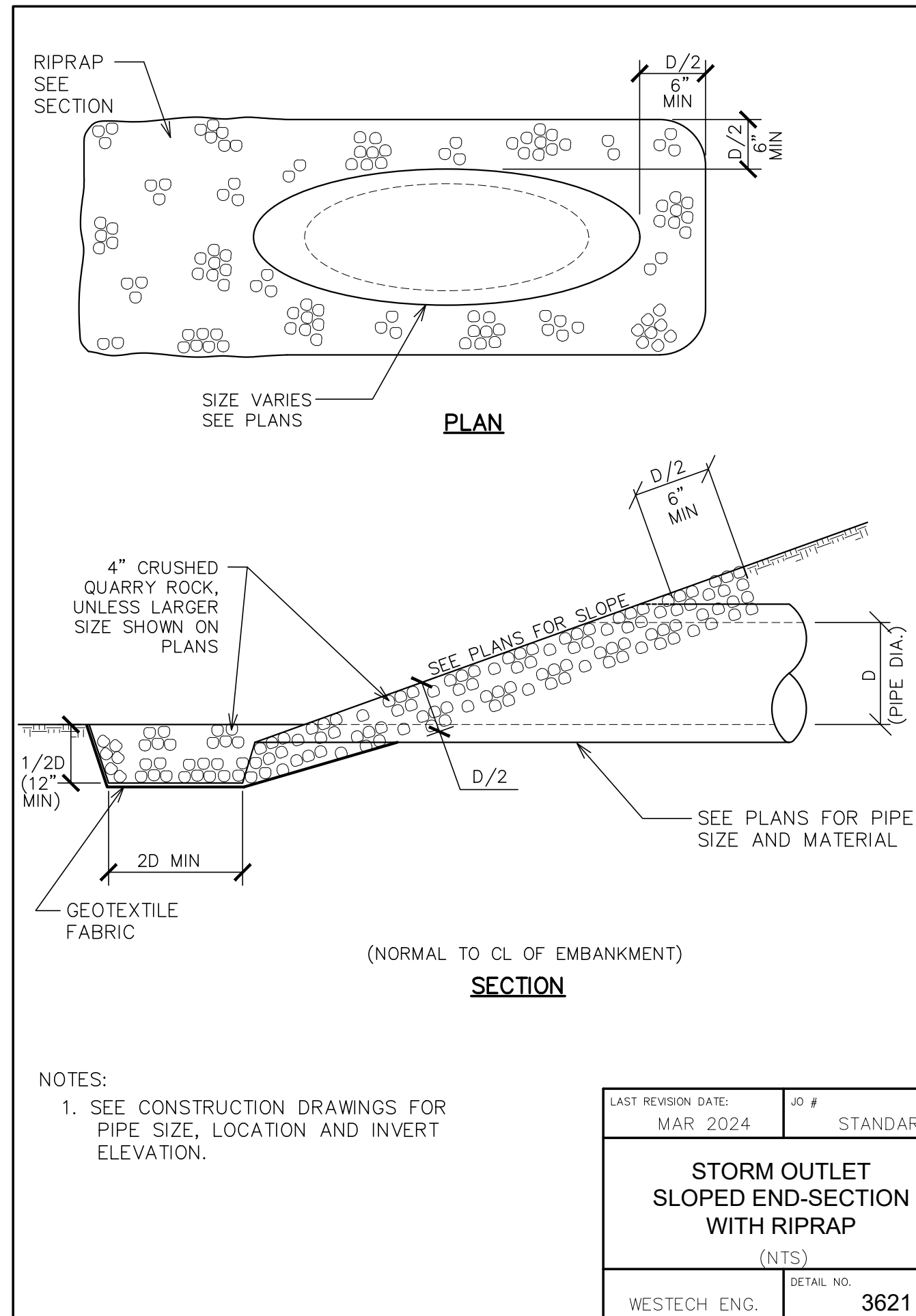
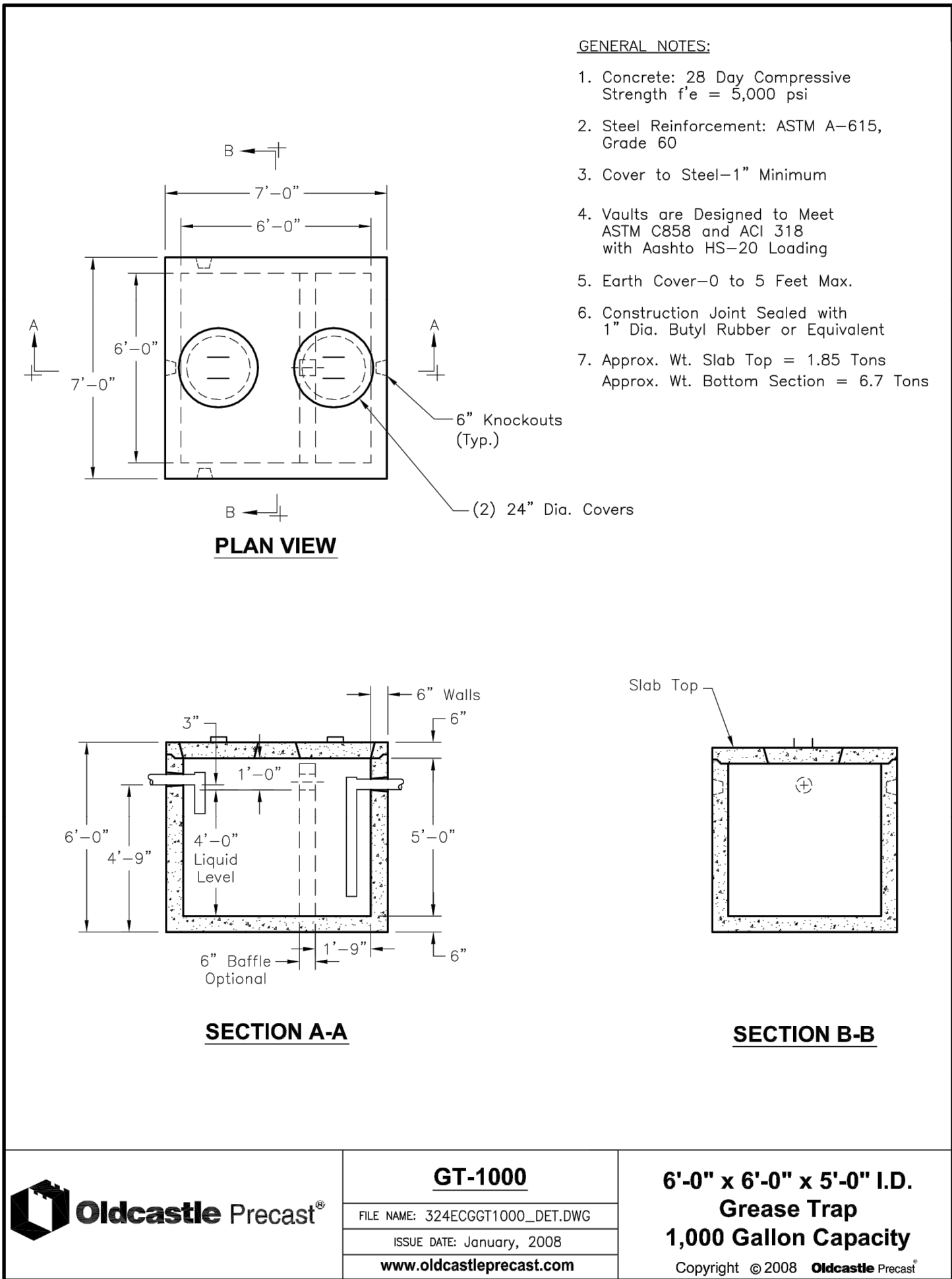
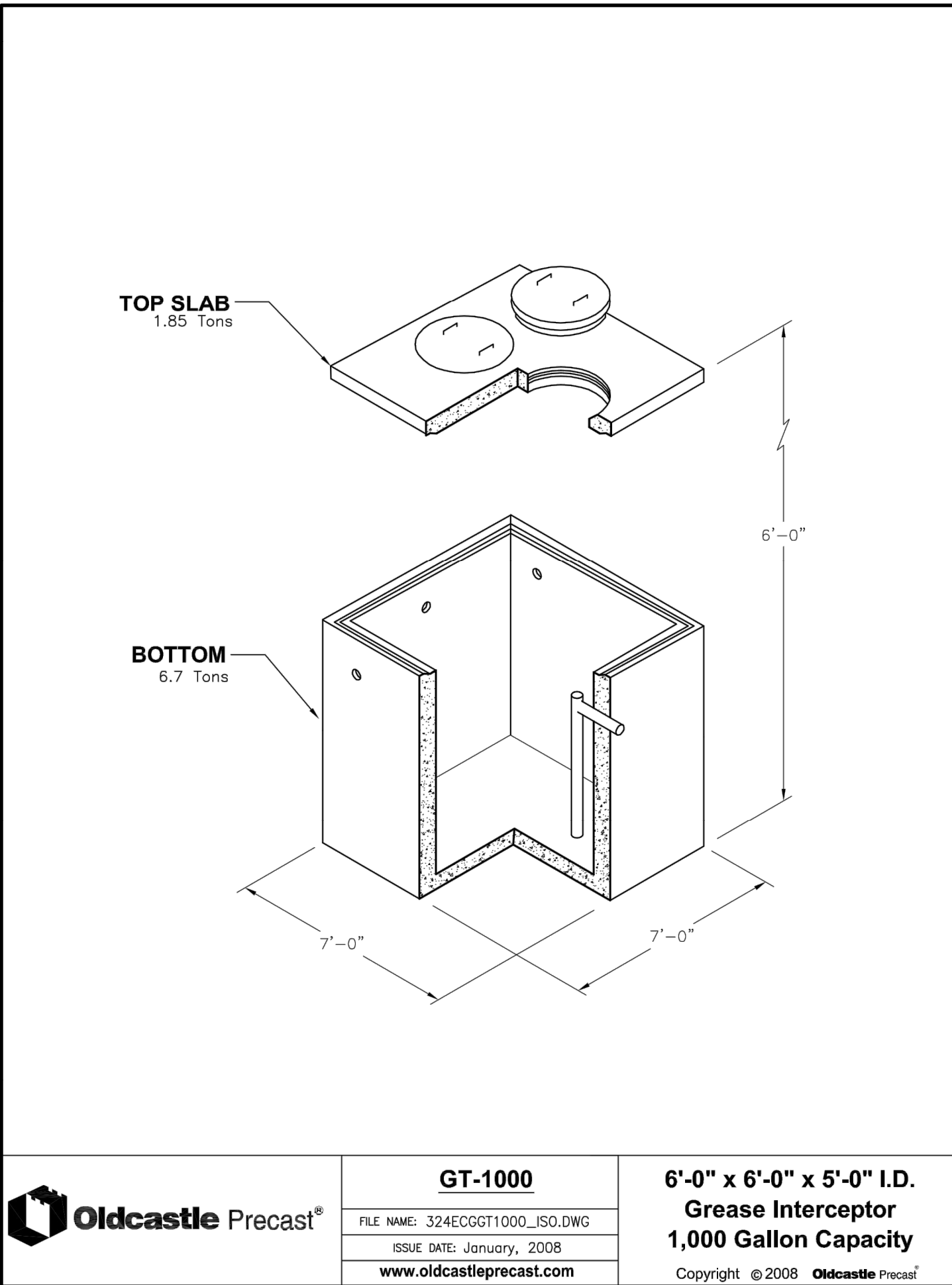
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DATE: NOV 2022

NO. 1

DATE

DESCRIPTION

BY

REGISTERED PROFESSIONAL ENGINEER  
NOV 12, 2008  
WILLIAM J. WELLS

RENEWS: 6/30/2028

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CLUTCH INDUSTRIES  
YETI

CONSTRUCTION DETAILS

DRAWING  
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