

WESTMINSTER POND REHABILITATION

LACEY CONTRACT # PW 2023-04
SECTION 16, T19N, R1W, W.M.
PARCEL # 83020100000

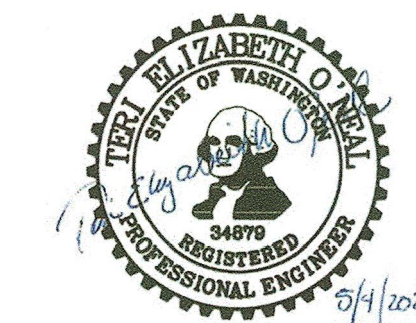
LACEY CITY OFFICIALS

MAYOR: Andy Ryder
DEPUTY MAYOR: Malcolm Miller
CITY COUNCIL: Lenny Greenstein
Michael Steadman
Carolyn Cox
Ed Kunkel
Robin Vazquez
CITY MANAGER: Rick Walk (Interim)
CITY ATTORNEY: David S. Schneider
CITY ENGINEER: Aubrey Collier, P.E., S.E.
DIRECTOR OF PUBLIC WORKS: Scott Egger, P.E.

SHEET INDEX
























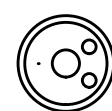
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Aubrey Collier City Engineer
for DIRECTOR OF PUBLIC WORKS
5/11/23
DATE

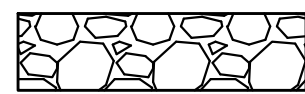
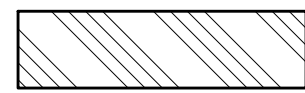




Lacey Dwg. Number :
D-23-08

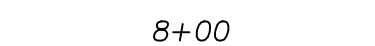
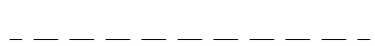
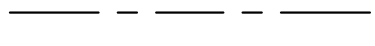
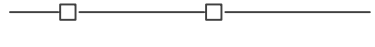








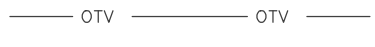

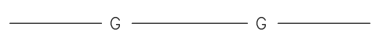











BLOCK LEGEND:

NEW	EXISTING	NEW
SURVEY MONUMENT		
CATCH BASIN TYPE 1		
STORM MANHOLE & CB TYPE 2		
FIRE HYDRANT		
WATER METER		
WATER VALVE		
SEWER MANHOLE		
SANITARY SEWER CLEAN OUT		
GAS VALVE		
SIGN		
POLE ANCHOR		
POWER TRANSFORMER		
POWER POLE		
POWER VAULT		
JUNCTION BOX		
ELECTRICAL SERVICE		
CABLE TV PEDESTAL		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TREE GRATE		
CONIFER TREE		
DECIDUOUS TREE		
		STORM WATER TREATMENT DEVICE

HATCH LEGEND:

	CONSTRUCTION ENTRANCE
	STAGING/STOCKPILING AREA
	CONCRETE
	BUILDING

LINETYPE LEGEND:

NEW	EXISTING
CONSTRUCTION BASELINE	
EASEMENT	
ROAD CENTERLINE	
WOOD FENCE	
GRAVEL	
TOE OF SLOPE	
TOP OF SLOPE	
DITCH	
STORM (PAINTED)	
STORM (REMOVE)	
SEWER (PAINTED)	
RIGHT OF WAY	
OVERHEAD CABLE	
UNDERGROUND CABLE (PAINTED)	
GAS (PAINTED)	
OVERHEAD PHONE	
OVERHEAD FIBER OPTIC	
UNDERGROUND PHONE (PAINTED)	
UNDERGROUND FIBER OPTIC (PAINTED)	
OVERHEAD ELECTRIC	
UNDERGROUND ELECTRIC (PAINTED)	
WATER (PAINTED)	
CONTOUR	
GRADING LIMITS	
HIGH VISIBILITY SILT FENCE	
LANDSCAPING/BRUSH LINE	

ABBREVIATIONS:

Δ	DEFLECTION ANGLE	S/W	SIDEWALK	V.P.T.	VERTICAL POINT OF TANGENCY
EP	EDGE OF PAVEMENT	C.S.B.C.	CRUSHED SURFACING BASE COURSE	EL.	ELEVATION
RT	RIGHT	C.S.T.C.	CRUSHED SURFACING TOP COURSE	S.Y.	SQUARE YARD
LT	LEFT	CL, \mathcal{C}	CENTERLINE	C.Y.	CUBIC YARD
I.E.	INVERT ELEVATION	CB	CATCH BASIN	TYP.	TYPICAL
P.C.	POINT OF CURVATURE	N/A	NOT APPLICABLE	LUM.	LUMINAIRE
P.I.	POINT OF INTERSECTION	A/C	ASPHALT CONCRETE	L.F.	LINEAR FEET
P.T.	POINT OF TANGENCY	ACP	ASPHALT CONCRETE PAVEMENT	RD.	ROAD
R.	RADIUS	D.I.	DUCTILE IRON	DR.	DRIVE
R.P.	RADIUS POINT	SD	STORM DRAIN	PKWY.	PARKWAY
R/W	RIGHT-OF-WAY	SS	SANITARY SEWER	CONST.	CONSTRUCTION
ROW	RIGHT-OF-WAY	RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	FT.	FOOT
EX.	EXISTING	DIA, \emptyset	DIAMETER	D/W	DRIVEWAY
EXIST.	EXISTING	A.P.	ANGLE POINT	APPROX.	APPROXIMATELY
PROP.	PROPOSED	V.P.I.	VERTICAL POINT OF INTERSECTION	U.O.N.	UNLESS OTHERWISE NOTED
STA	STATION	V.P.C.	VERTICAL POINT OF CURVATURE		

CONSTRUCTION NOTES:

- CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 OR 811.
- THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS INDICATED ON PLANS OR DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL LANDSCAPING TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESTORING MONUMENTS OR PROPERTY CORNERS OUTSIDE OF THE CONSTRUCTION LIMITS.

BASIS OF BEARING
MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 - SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259R, GP34005-2, GP34005-4, GP34101-32, GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478. DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- CONTRACTOR SHALL COMPLY WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS OF THE GOVERNING AUTHORITY OR AGENCY.
- ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STD. SPEC. 7-04 STORM SEWERS.

VERTICAL
THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

BENCHMARK
CITY OF LACEY BM#1327
SURVEY MARKER NAIL IN WALK 1.9'
W. OF EXT. OF C/L COLLEGE ST NE,
2. NE OF F/L (HORIZONTAL CONTROL
1340) INT OF 6TH AVE NE
ELEV.=191.046

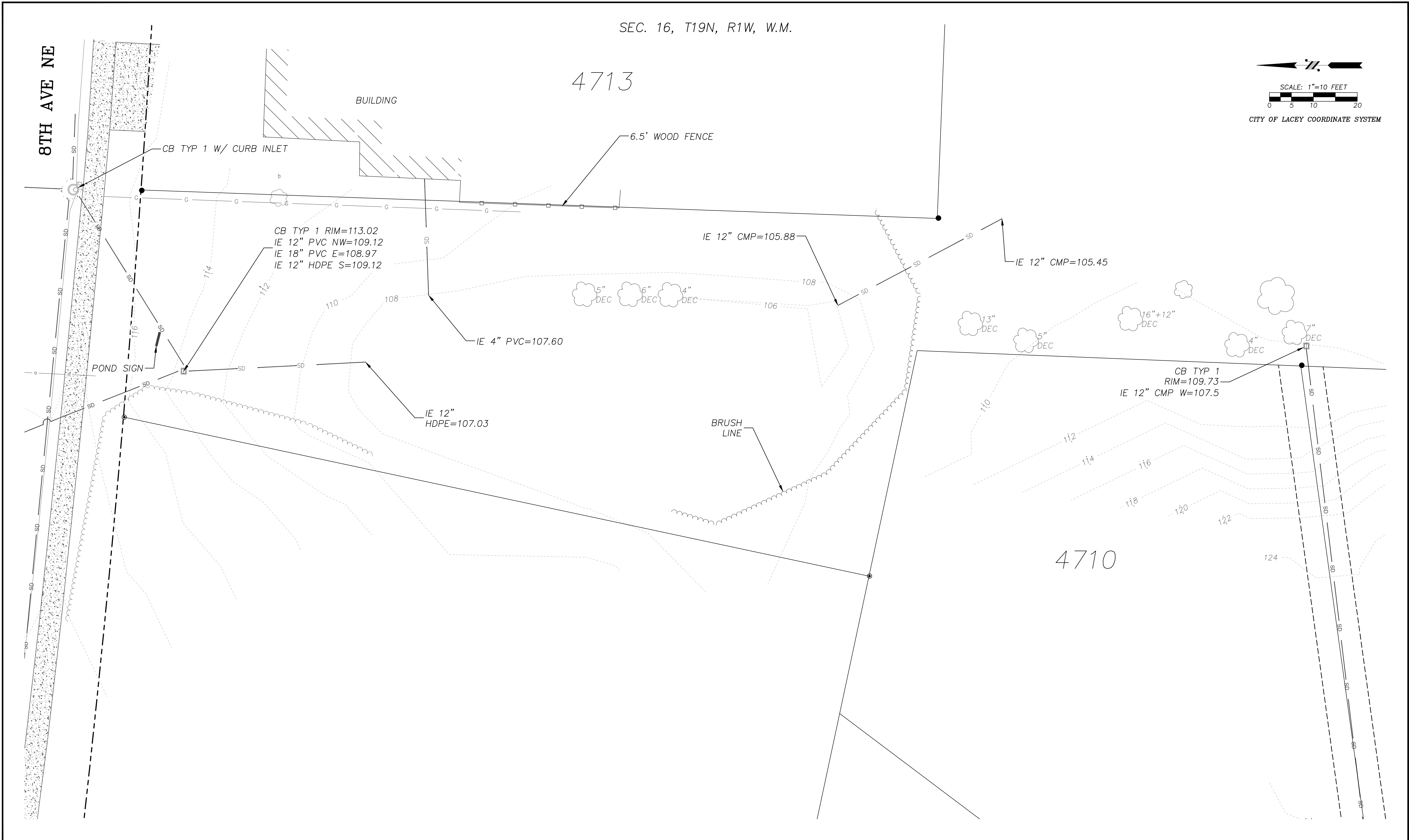
CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600



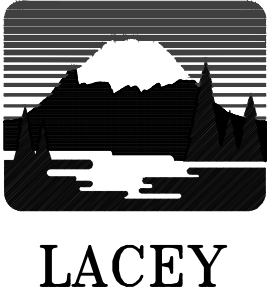
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DRAFTED: RKJ
CHECKED: TEO
HORZ. SCALE: N/A
VERT. SCALE: N/A
FILE: COVER SHEET & NOTES

WESTMINSTER POND REHABILITATION
GENERAL NOTES

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CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600



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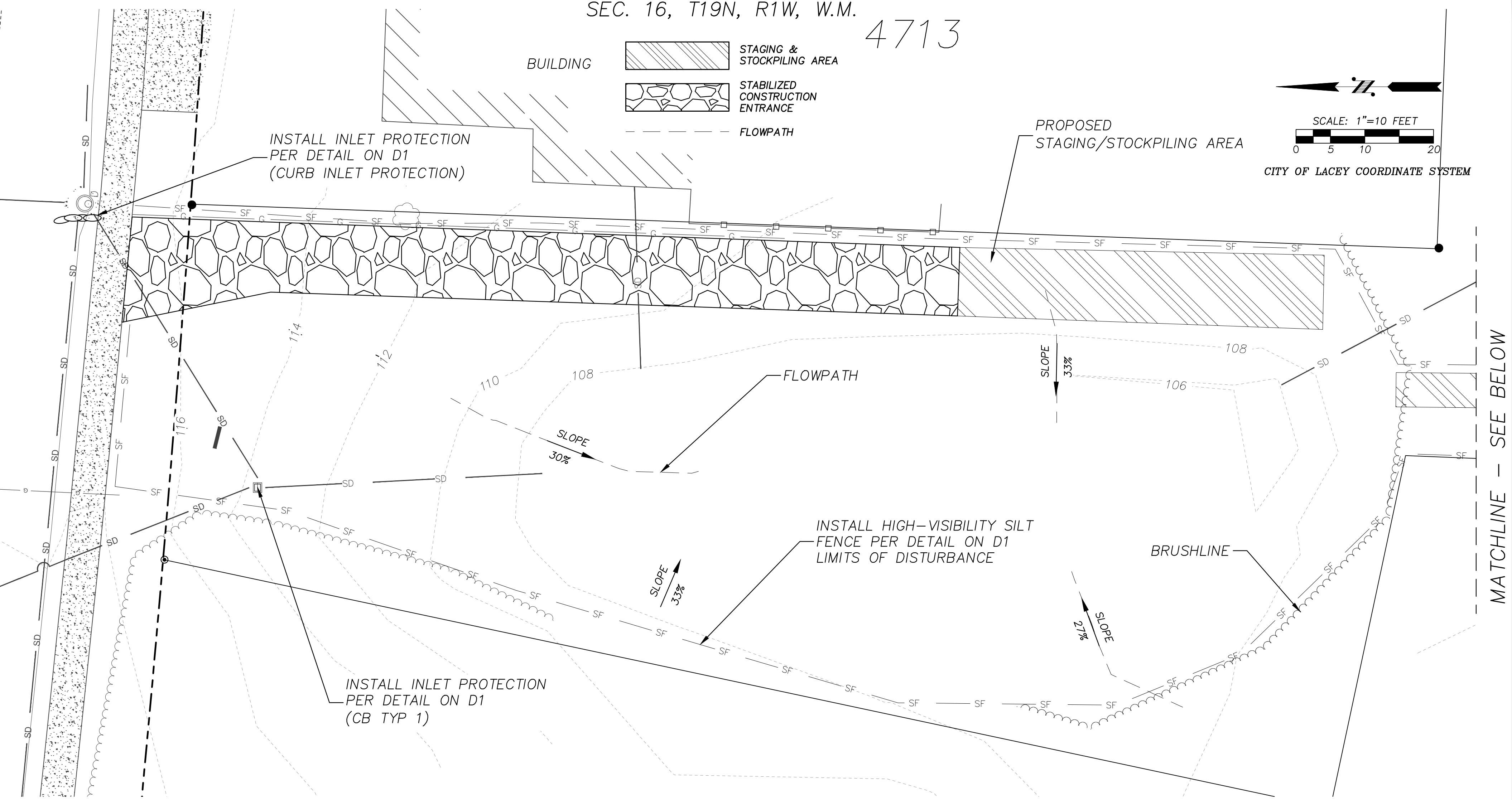
WESTMINSTER POND REHABILITATION
EXISTING CONDITIONS

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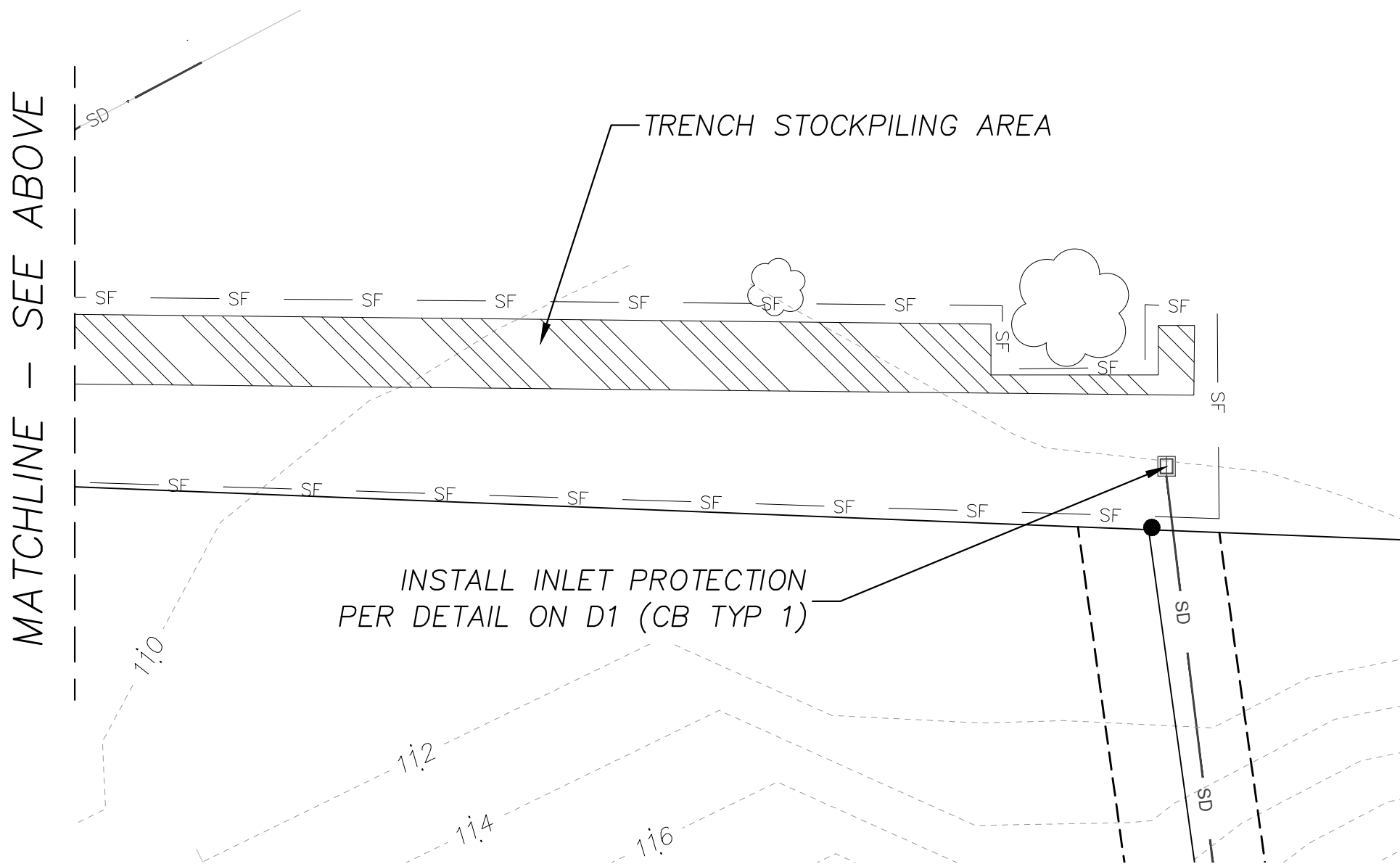
EROSION CONTROL NOTES:

1. TEMPORARY EROSION/WATER POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 8-01 OF THE STANDARD SPECIFICATIONS AND THE LACEY STORM WATER MANUAL AND AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN.
2. SITE INSPECTIONS SHALL BE CONDUCTED BY A PERSON WHO IS KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL. FOR PROJECT SITES THAT REQUIRE A CONSTRUCTION SWPPP, A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) SHALL BE IDENTIFIED IN THE CONSTRUCTION SWPPP AND SHALL BE ON SITE OR ON CALL AT ALL TIMES.
3. APPROVAL OF THE CONSTRUCTION SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION/DETENTION/INFILTRATION FACILITIES, UTILITIES, ETC.).
4. THE IMPLEMENTATION OF THE CONSTRUCTION SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
5. THE CLEARING LIMIT BOUNDARIES SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE STANDARDS FOR SURFACE WATER QUALITY, GROUNDWATER QUALITY, OR SEDIMENT QUALITY.
7. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE CONSTRUCTION SWPPP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE DURING THE COURSE OF CONSTRUCTION, INCLUDING CONSTRUCTION ON INDIVIDUAL LOTS.
8. THE CONSTRUCTION SWPPP FACILITIES ON ACTIVE SITES SHALL BE INSPECTED DAILY BY THE CONTRACTOR. THE FACILITIES SHALL BE MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
9. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AT LEAST MONTHLY AND WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT (1" RAINFALL IN 24 HOURS) BY THE CONTRACTOR. THE FACILITIES SHALL BE MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
10. STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. AT NO TIME SHALL MORE THAN 1 FOOT OR 1/3 OF THE BMP VOLUME (WHICHEVER IS LESS) OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A STORM DRAIN INLET PROTECTION BMP. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED AS PART OF PROJECT COMPLETION AND ACCEPTANCE. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. 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.
12. ROADS SHALL BE INSPECTED DAILY AND CLEANED THOROUGHLY AS NEEDED TO PROTECT DOWNSTREAM WATER RESOURCES OR STORMWATER INFRASTRUCTURE. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
13. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. LINEAR CONSTRUCTION ACTIVITIES, SUCH AS RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL COMPLY WITH THESE REQUIREMENTS. THESE STABILIZATION REQUIREMENTS APPLY TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THE CITY OF LACEY MAY DECREASE THESE TIME LIMITS IF IT CAN BE SHOWN THAT A DEVELOPMENT SITE'S EROSION OR RUNOFF POTENTIAL JUSTIFIES A DIFFERENT STANDARD.
14. CONTACT THE CITY FOR APPROVAL PRIOR TO ALL CLEARING, GRADING, AND OTHER SOIL DISTURBING ACTIVITIES THAT OCCUR BETWEEN OCTOBER 1 AND APRIL 30. SUCH WORK SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE CITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED. THE CITY MAY REQUIRE SUPPLEMENTAL SWPPP DOCUMENTATION FOR WET SEASON WORK.
15. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED FROM EROSION.
16. HANDLE AND DISPOSE OF ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON SITE IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
17. USE SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, WHEN CONDUCTING MAINTENANCE AND REPAIR OF VEHICLES AND EQUIPMENT.
18. REPORT SPILLS MONDAY THROUGH FRIDAY, 7:00 A.M. TO 3:30 P.M. (360) 491-5644. AFTER HOURS, YOU CAN LEAVE A VOICEMAIL AT THE NUMBER ABOVE, OR SELECT THE OPTION TO BE CONNECTED TO THURSTON COUNTY CENTRAL DISPATCH, WHO WILL NOTIFY THE CITY'S STAND-BY SPILL RESPONSE STAFF.
19. WATER FROM DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SEDIMENT TRAP. CLEAN, NON-TURBID WATER MAY BE DISCHARGED TO SURFACE WATERS, PROVIDED THE DISCHARGE DOES NOT CAUSE EROSION OR FLOODING. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM STORM WATER AND PROPERLY DISPOSED.
20. QUARRY SPALLS USED FOR OUTLET PROTECTION SHALL MEET THE REQUIREMENTS OF SECTION 9-13 OF THE MOST RECENT WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. INSTALLATION SHALL MEET THE REQUIREMENTS OF SECTION 8-15 AND THE OUTLET PROTECTION NOTES ON SHEET D1.
21. DISTURBED AREA: 0.27 AC
UNDISTURBED AREA: 2.65 AC

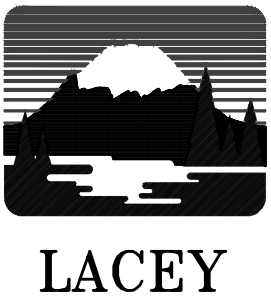


EROSION CONTROL NOTES:

22. PROTECT STOCKPILES WITH PLASTIC COVERING. SEE DETAIL ON SHEET D1.



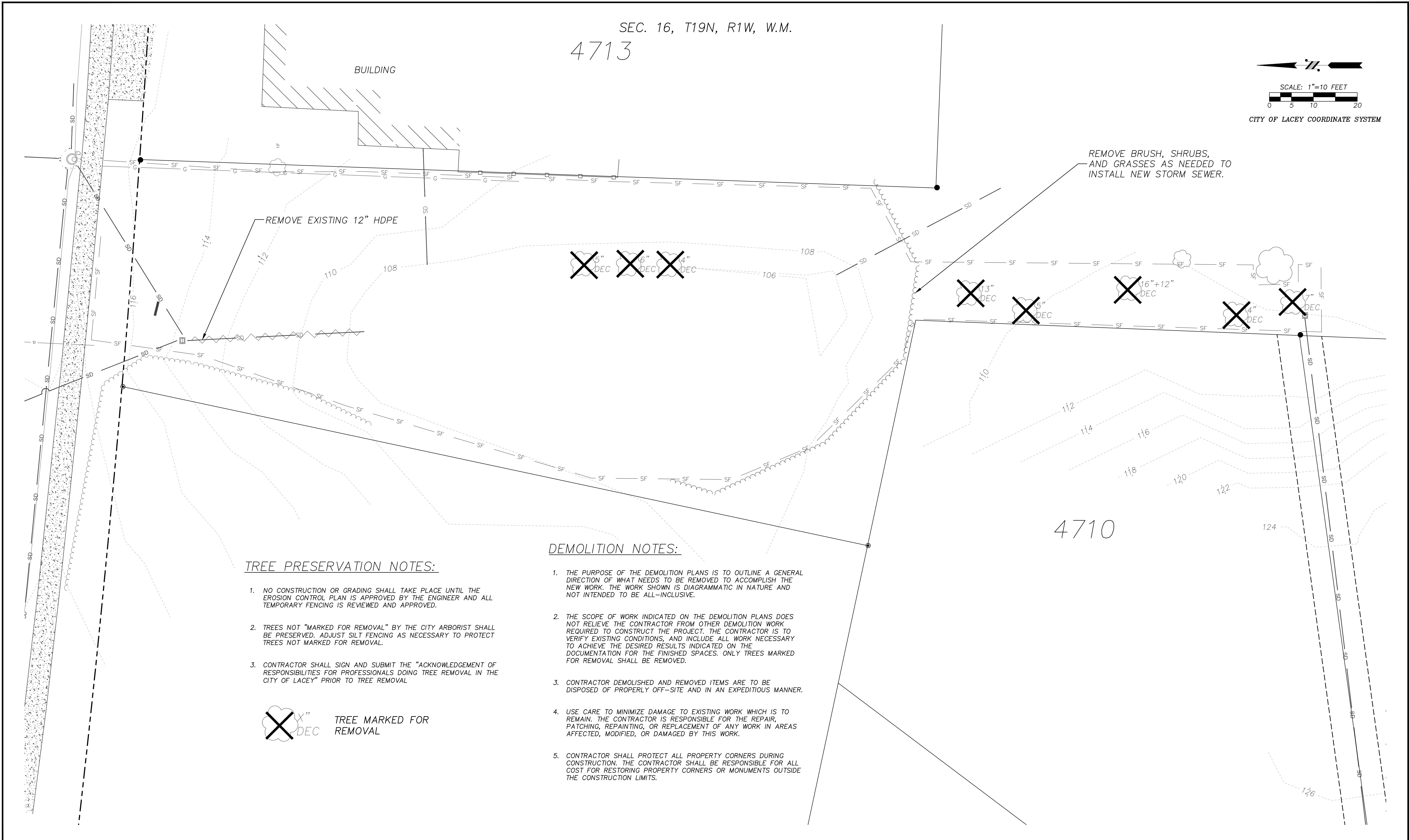
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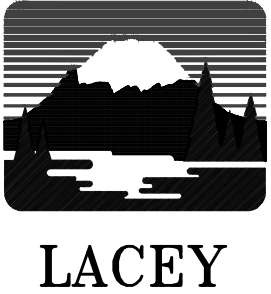
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WESTMINSTER POND REHABILITATION
EROSION & SEDIMENT CONTROL
PLAN

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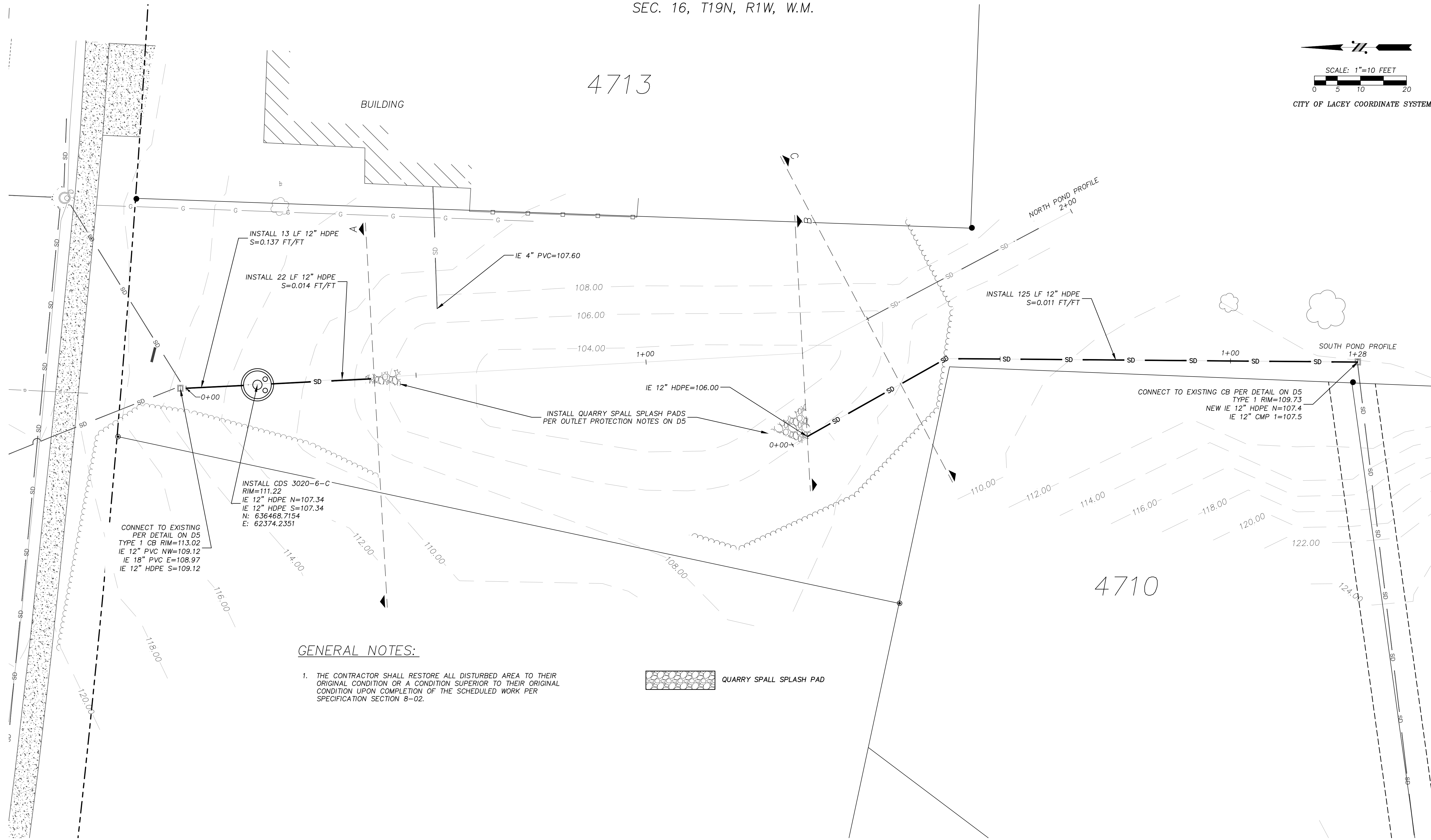
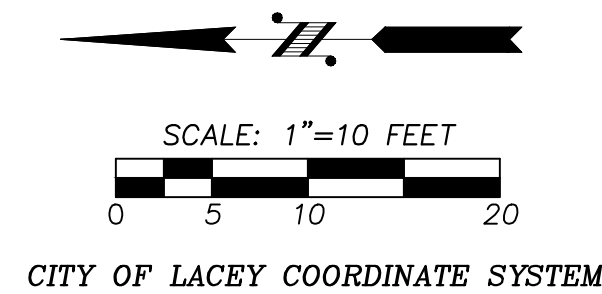
WESTMINSTER POND REHABILITATION
DEMOLITION PLAN

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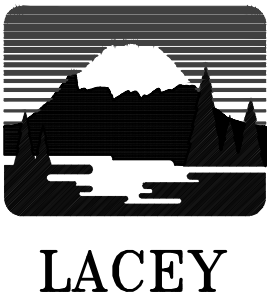


GENERAL NOTES:

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREA TO THEIR ORIGINAL CONDITION OR A CONDITION SUPERIOR TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE SCHEDULED WORK PER SPECIFICATION SECTION 8-02.

 QUARRY SPALL SPLASH PAD

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

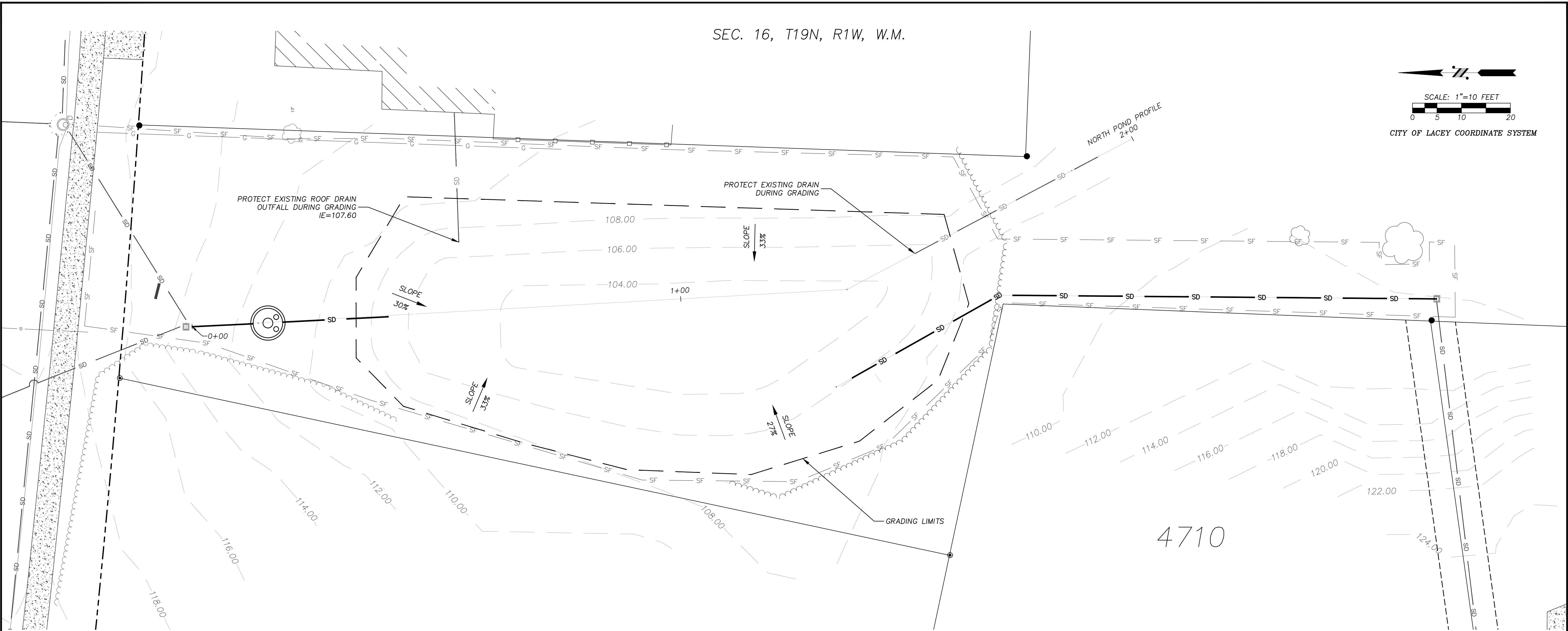


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WESTMINSTER POND REHABILITATION
PROPOSED SITE PLAN

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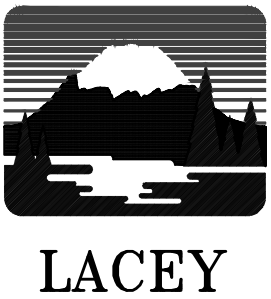
GRADING NOTES:

1. CALL UNDERGROUND LOCATES LINE 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS.
2. THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM SURVEY INFORMATION OF OBSERVABLE SURFACE FEATURES (VALVES, METERS, LOCATE MARKS), AND CONSTRUCTION DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED.
3. POND SIDE SLOPES ARE NOT TO EXCEED 33%
4. QUANTITIES ON THIS PLAN ARE BASED ON A COMPUTER GENERATED EARTHWORK CALCULATED ON THE EXISTING GROUND SURVEY. THE QUANTITIES DO NOT INCORPORATE EXPANSION, CLEARING AND GRUBBING, OR CONSTRUCTION METHODOLOGY. THESE VALUES ARE LISTED FOR THE CONVENIENCE OF THE CONTRACTOR IN DETERMINING THE VOLUME OF WORK INVOLVED AS CALCULATED BY THE ENGINEER AND ARE NOT GUARANTEED TO BE ACCURATE.
5. PROTECT ALL EXISTING OUTLETS NOT SCHEDULED FOR REMOVAL DURING GRADING.
6. GRADING QUANTITIES:
 - 6.1. CUT: 300 C.Y.
 - 6.2. FILL: 20 C.Y.

RESTORATION NOTES:

1. HYDROSEED ALL DISTURBED AREAS WITHIN THE GRADING LIMITS PER SECTION 8-02.5 TO ENSURE A FULLY STABILIZED SITE PRIOR TO REMOVAL OF EROSION CONTROL BMP'S. BMP'S MAY NOT BE REMOVED PRIOR TO THE FIRST MOWING.
2. RESTORE ALL DISTURBED AREAS OUTSIDE OF THE GRADING LIMITS PER SECTION 8-05.
3. SEED MIXTURE SHALL MEET THE REQUIREMENTS OF SECTION 9-14.3 OF THE SPECIFICATIONS.
4. SEED BEDS PLANTED BETWEEN MAY 15 AND SEPTEMBER 1 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
5. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (EG., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
6. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING, PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
7. FERTILIZER FOR SEEDED AREAS SHALL MEET THE REQUIREMENTS OF SECTION 9-14.4 OF THE SPECIFICATIONS.

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420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

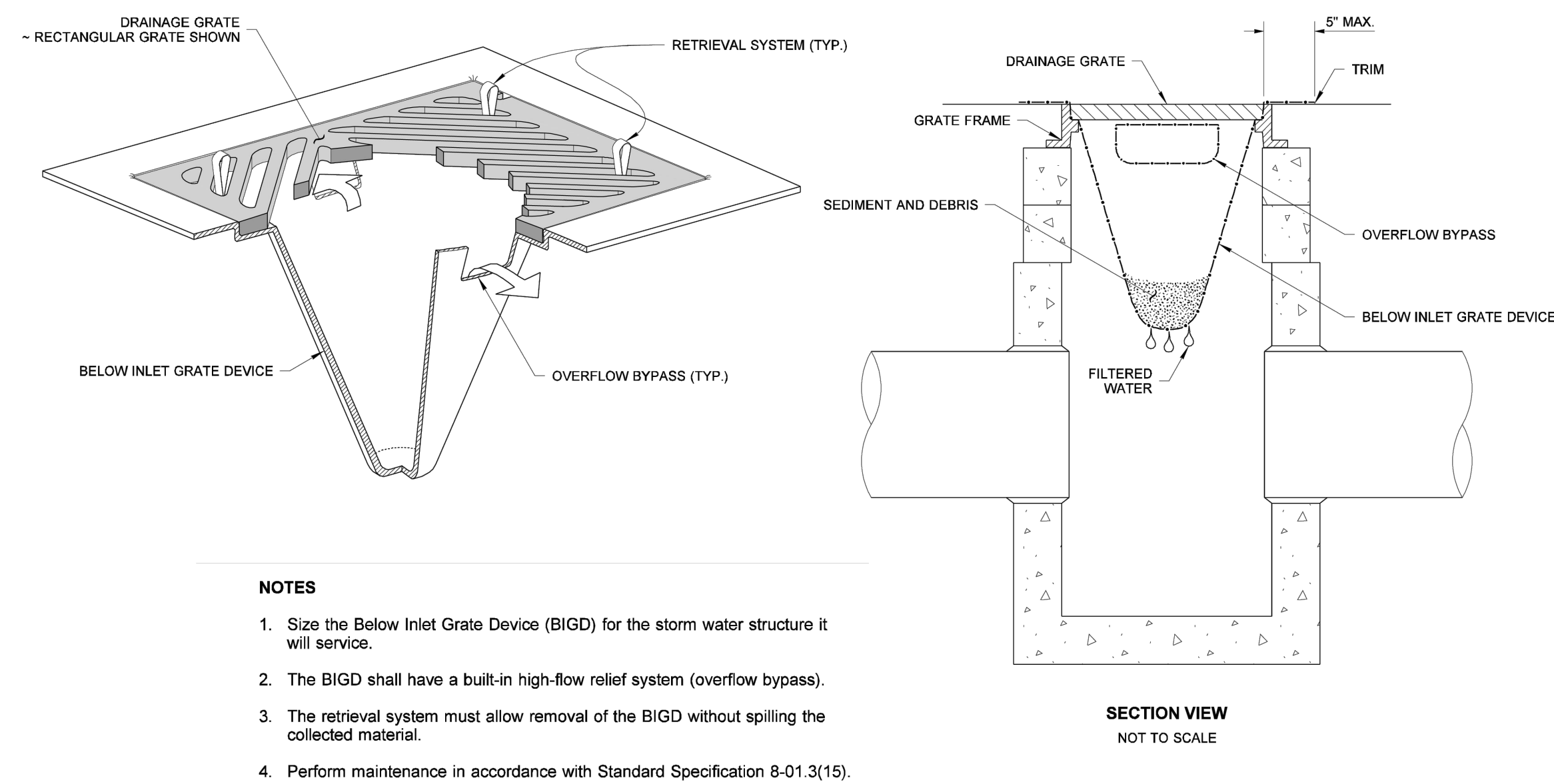


DESIGNED: RKJ
DRAFTED: RKJ
CHECKED: TEO
HORZ. SCALE: 1"=10'
VERT. SCALE: 1"=4'
FILE: WESTMINSTER POND REHAB

WESTMINSTER POND REHABILITATION
GRADING PLAN

REVISION BLOCK		
NO.	DATE	DESCRIPTION

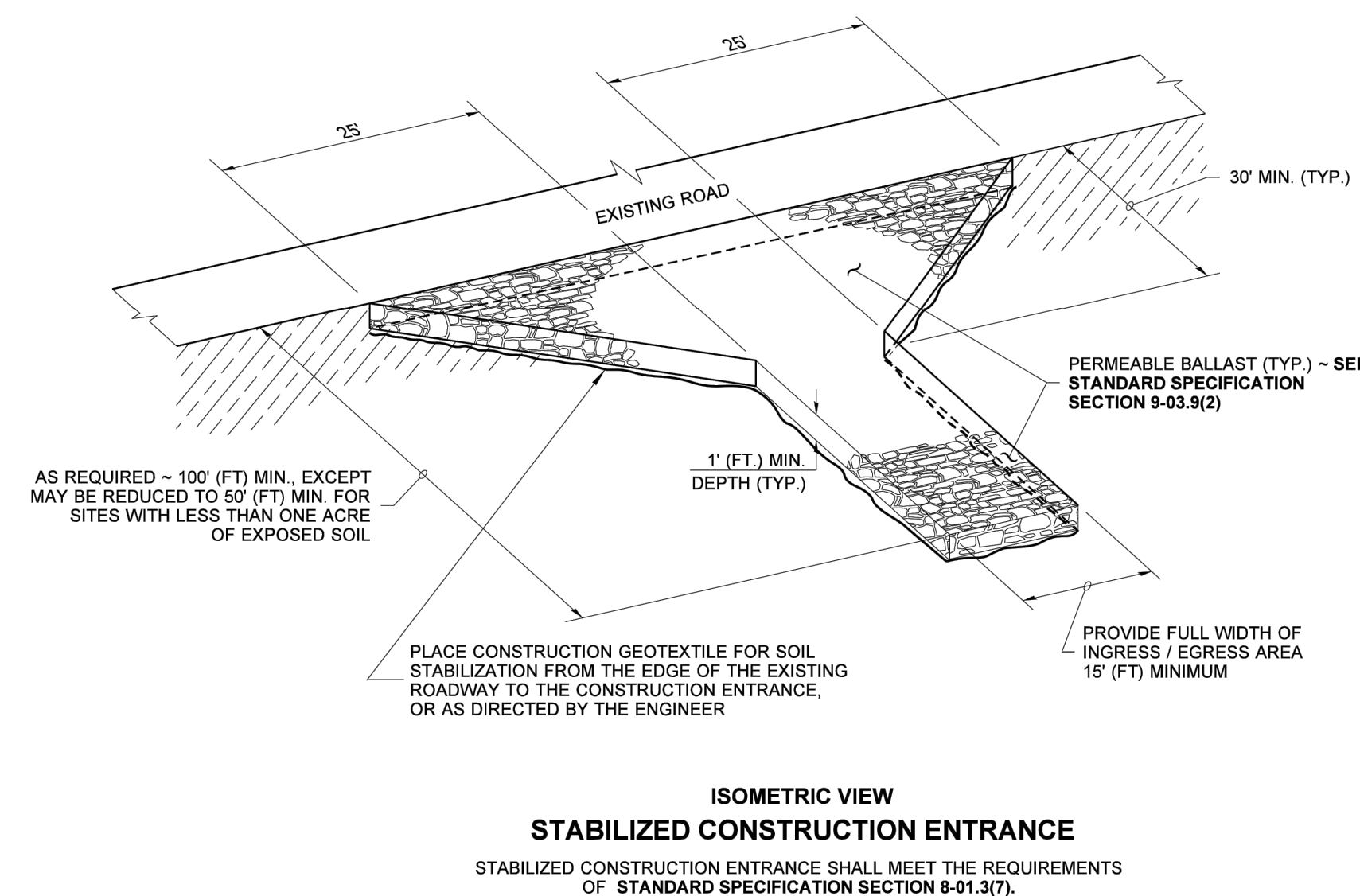
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D-23-08	12



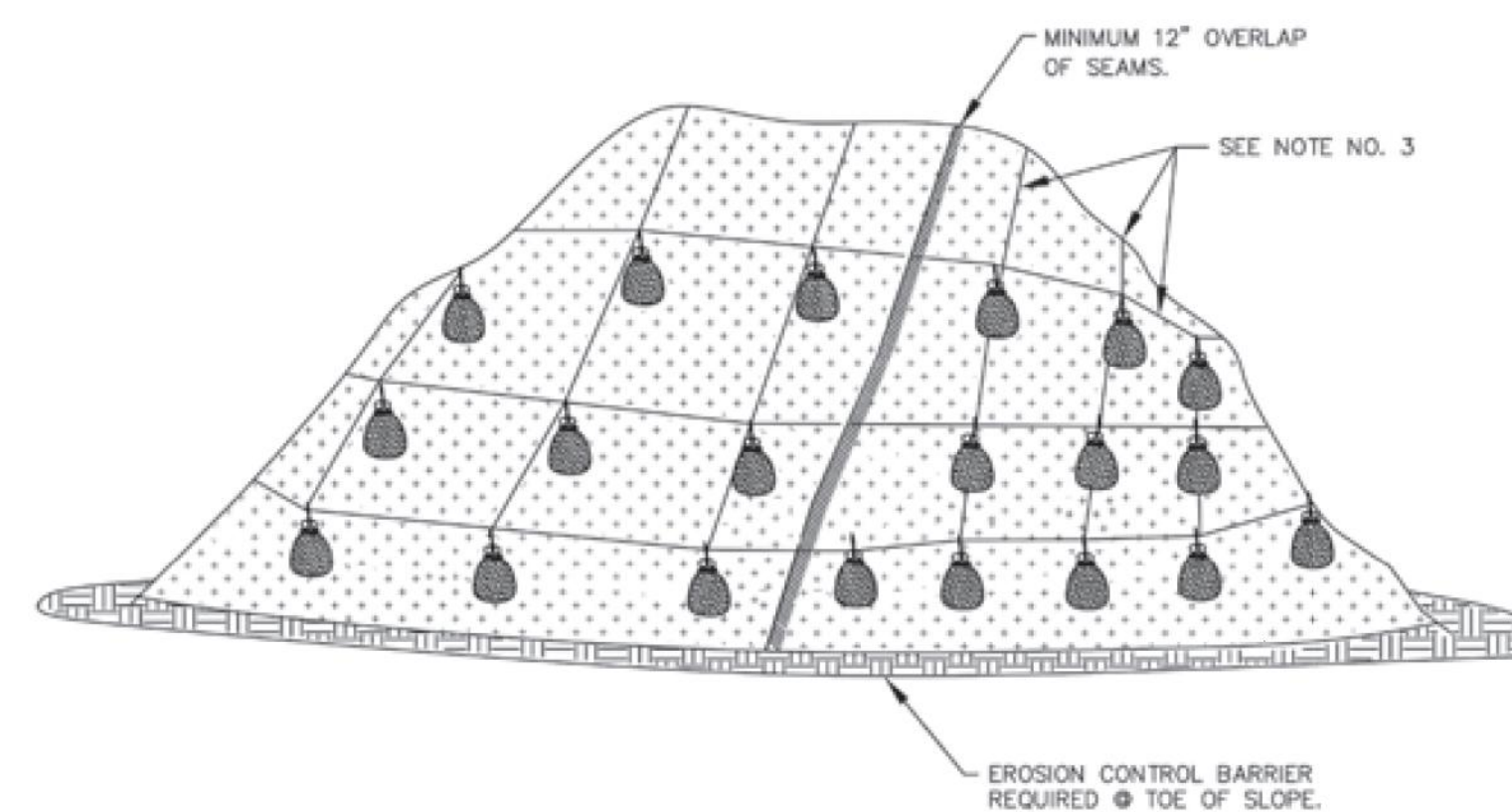
INLET PROTECTION DETAIL
N.T.S.

HIGH VISIBILITY SILT FENCE DETAIL
N.T.S.

1. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 100 FEET LONG. WIDTH SHALL BE AT LEAST 15 FEET AND BE THE FULL WIDTH OF THE VEHICLE. INGRESS AND EGRESS AREA, SMALLER PADS MAY BE APPROVED WHERE REQUIRED SIZE IS IMPRACTICAL.
2. FOR SINGLE-FAMILY RESIDENTIAL LOTS PAD MAY BE REDUCED IN LENGTH TO FIT SITE, TO NO LESS THAN 20 FEET LONG, 10 FEET WIDE, AND 8 INCHES THICK WITH 4- INCH TO 8- INCH QUARRY SPALLS.
3. MATERIAL SHALL BE 4" TO 8" QUARRY SPALLS. DO NOT USE BROKEN/CRUSHED CONCRETE, CEMENT, OR CALCIUM CHLORIDE.
4. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:
 - a. GRAB TENSILE STRENGTH (ASTM D4751): 200 PSI MINIMUM
 - b. TENSILE ELONGATION (ASTM D4632): 30 PERCENT MAXIMUM
 - c. MULLEN BURST STRENGTH (ASTM D3786-80A): 400 PSI MINIMUM
 - d. AOS (ASTM D4751): 20 TO 45 (U.S. STANDARD SEVE SIZE)
5. ADDITIONAL QUARRY SPALLS SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
6. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE REPLACEMENT/CLEANING OF THE EXISTING QUARRY SPALLS INCREASE IN THE NUMBER OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.



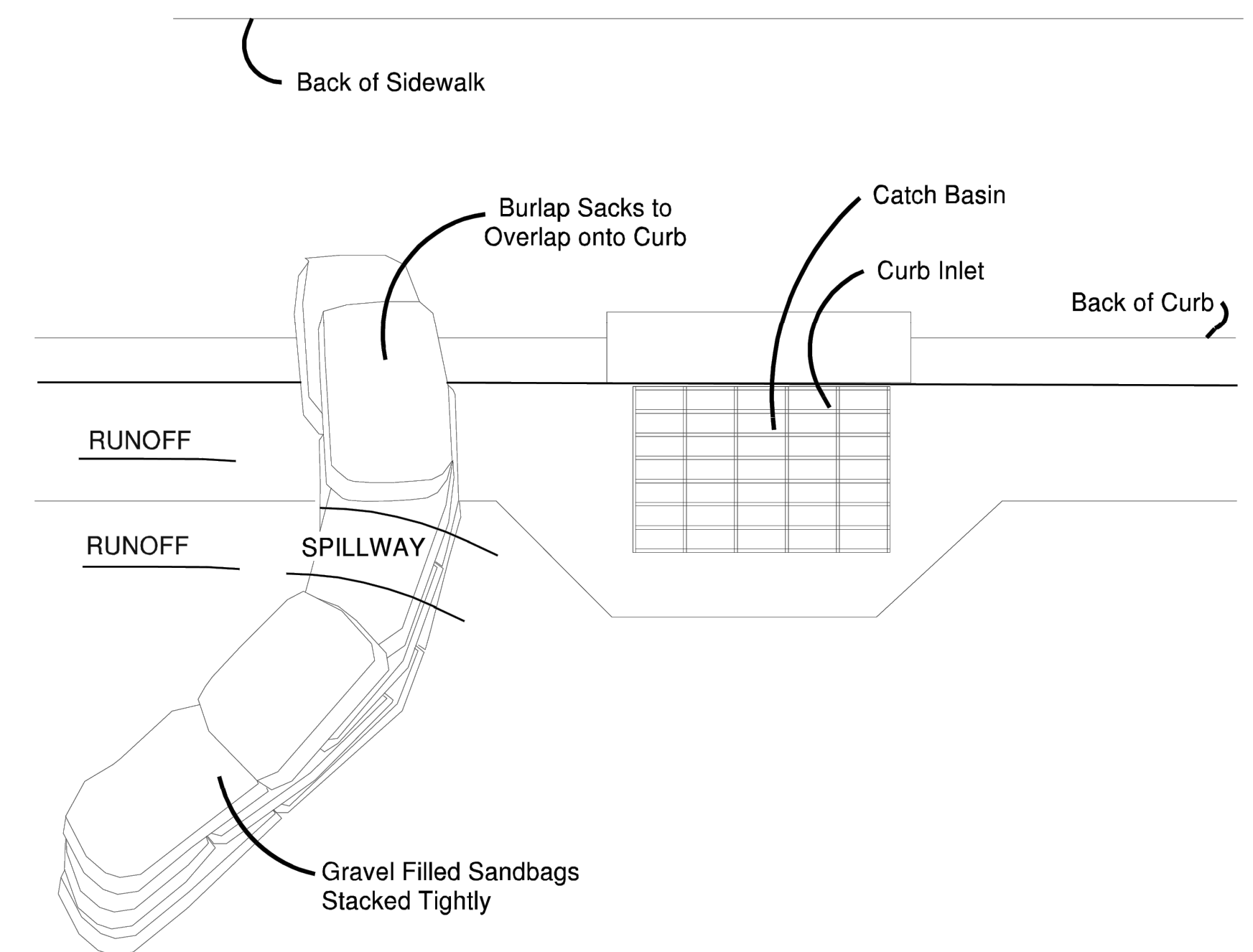
CONSTRUCTION ENTRANCE DETAIL
N.T.S.



PLASTIC SHEETING NOTES:

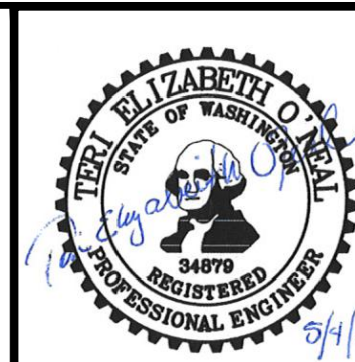
1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILLS AND SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 9-14.5.
2. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
3. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12 INCH OVERLAP OF ALL SEAMS.
4. WHEN COVERING IS USED ON UN-SEEDED SLOPES IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
5. PLASTIC COVERING SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISPOSED ENDS.

PLASTIC SHEETING DETAIL
N.T.S.



- NOTES:
1. Place curb type sediment barriers on gently sloping street segments, where water can pond and allow sediment to separate from runoff.
 2. Sandbags of either burlap or woven 'geotextile' fabric, are filled with gravel, layered and packed tightly.
 3. Leave a one sandbag gap in the top row to provide a spillway for overflow.
 4. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

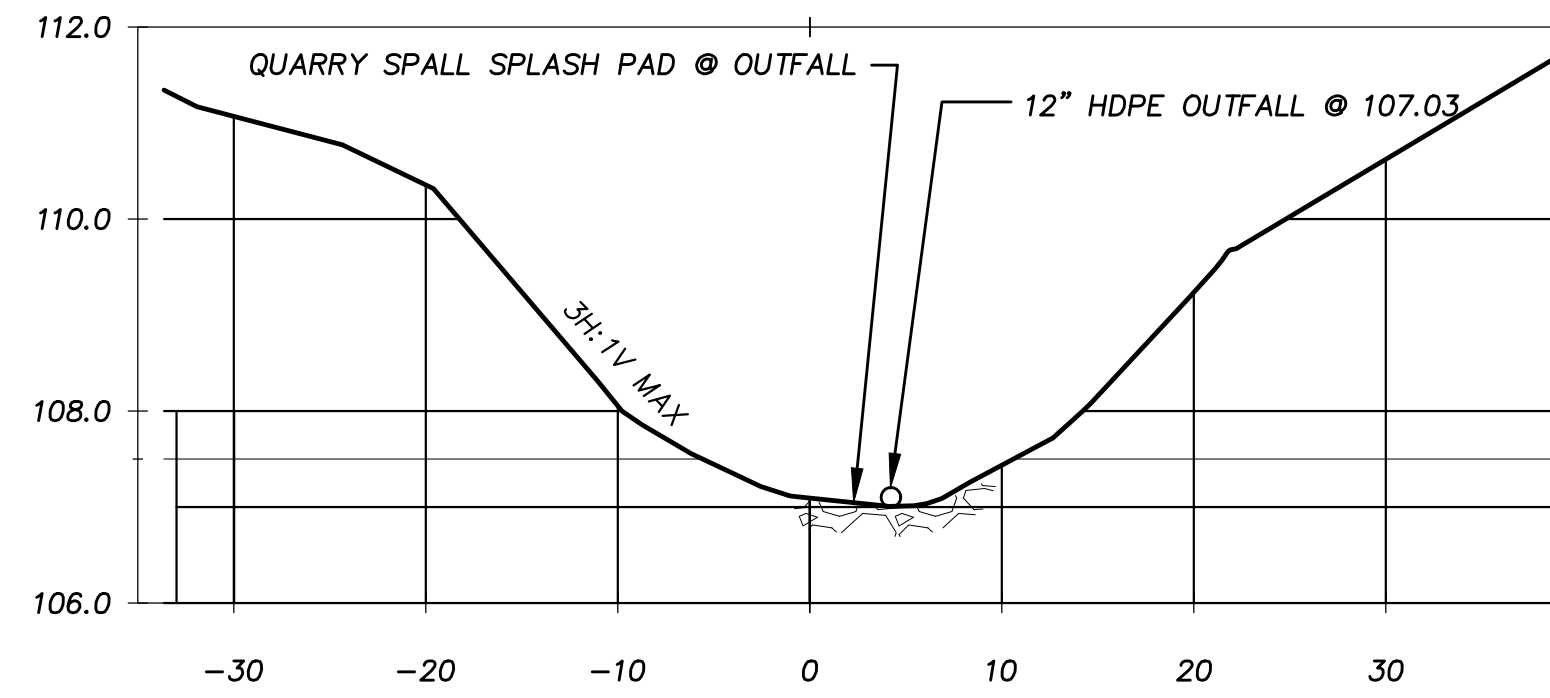
CURB INLET PROTECTION DETAIL
N.T.S.



DESIGNED:	RKJ
DRAFTED:	RKJ
CHECKED:	TEO
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILED IN: MINISTER POND BEHAB	

WESTMINSTER POND REHABILITATION TESC DETAILS

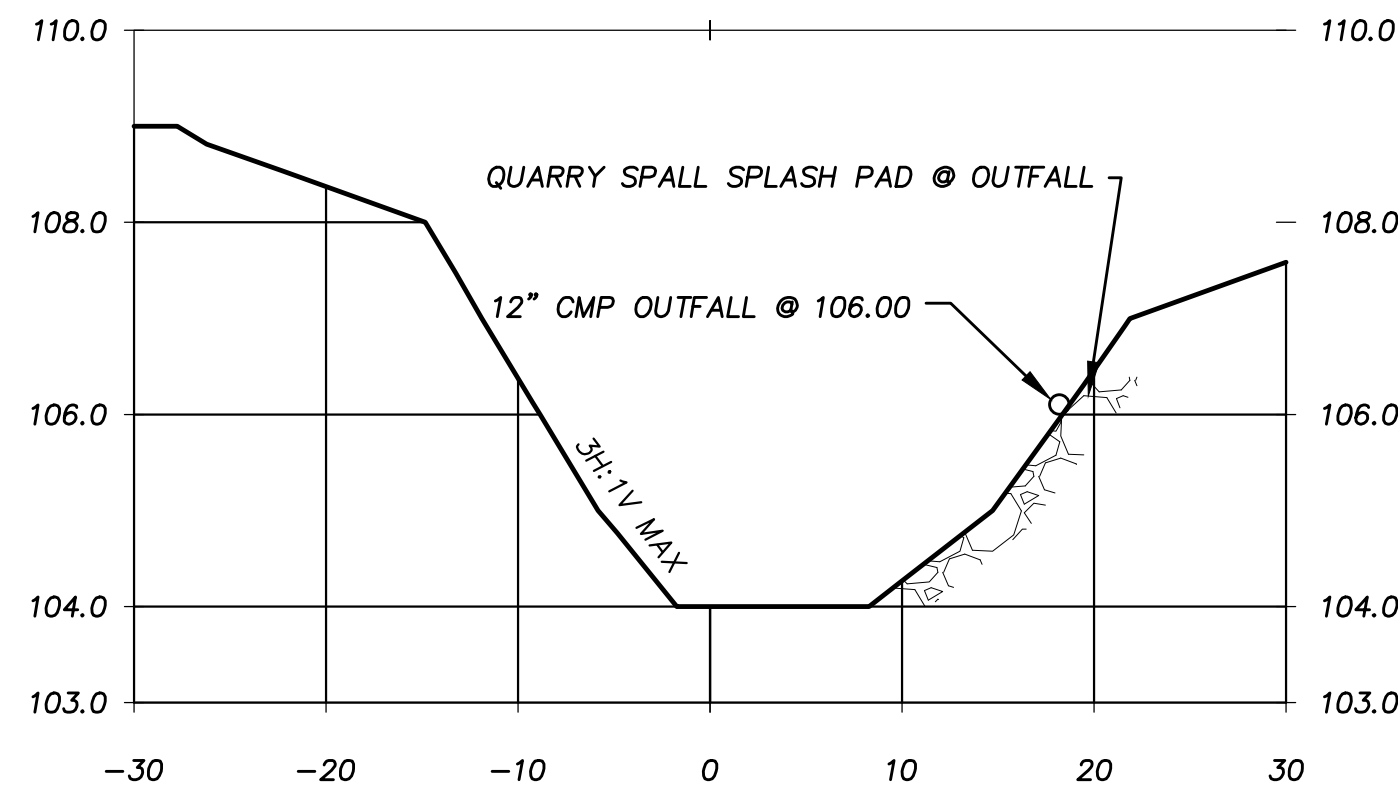
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SECTION @ 0+41

SECTION A

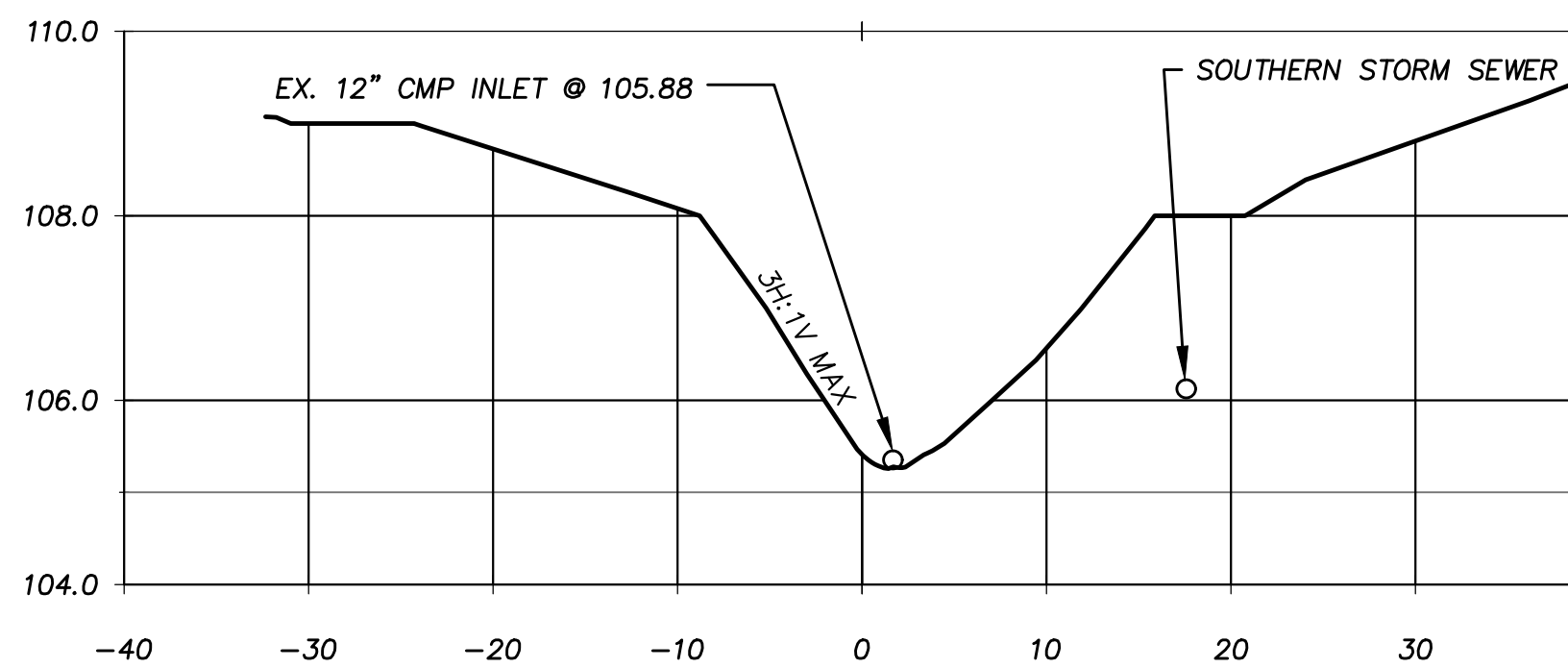
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'



SECTION @ 1+34

SECTION B

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

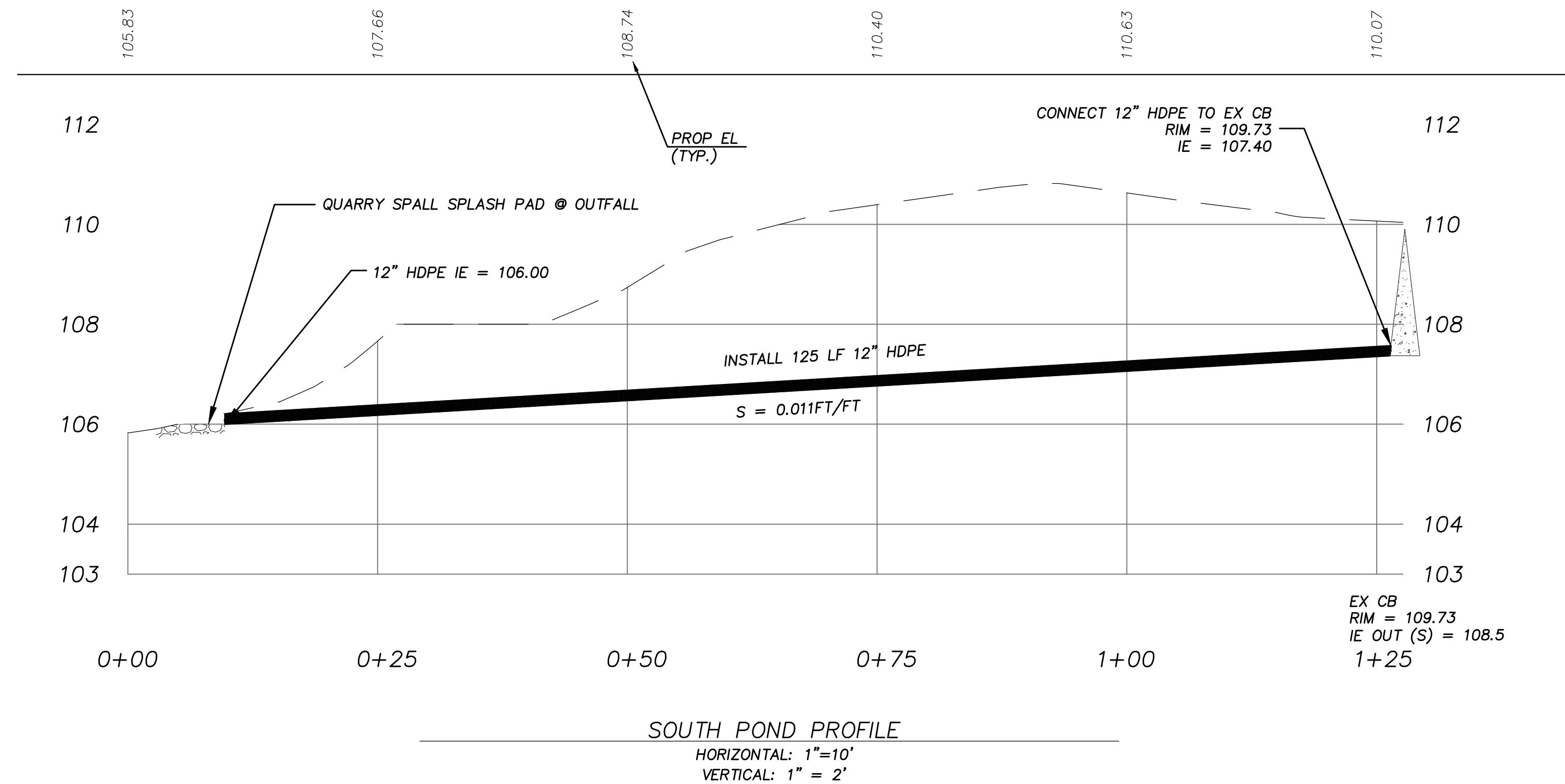
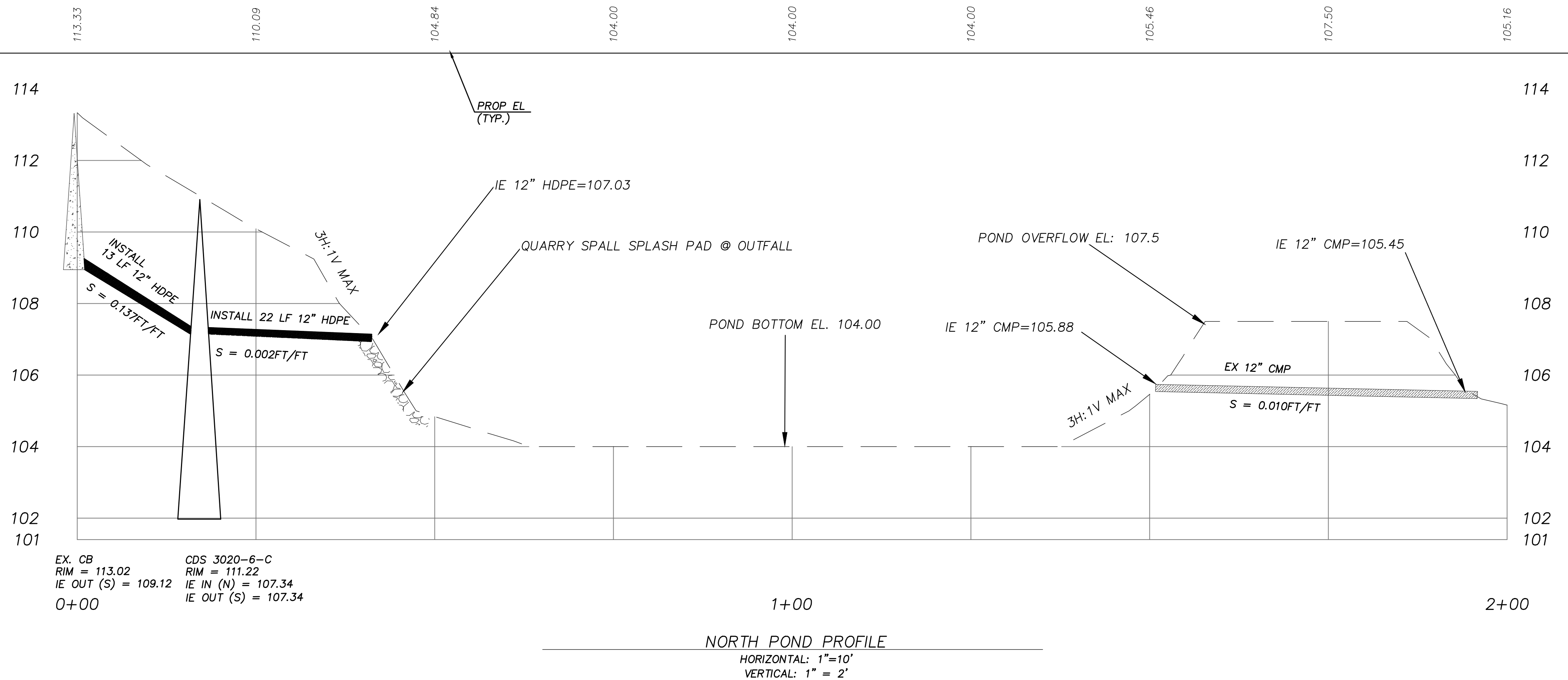


SECTION @ 1+50

SECTION C

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
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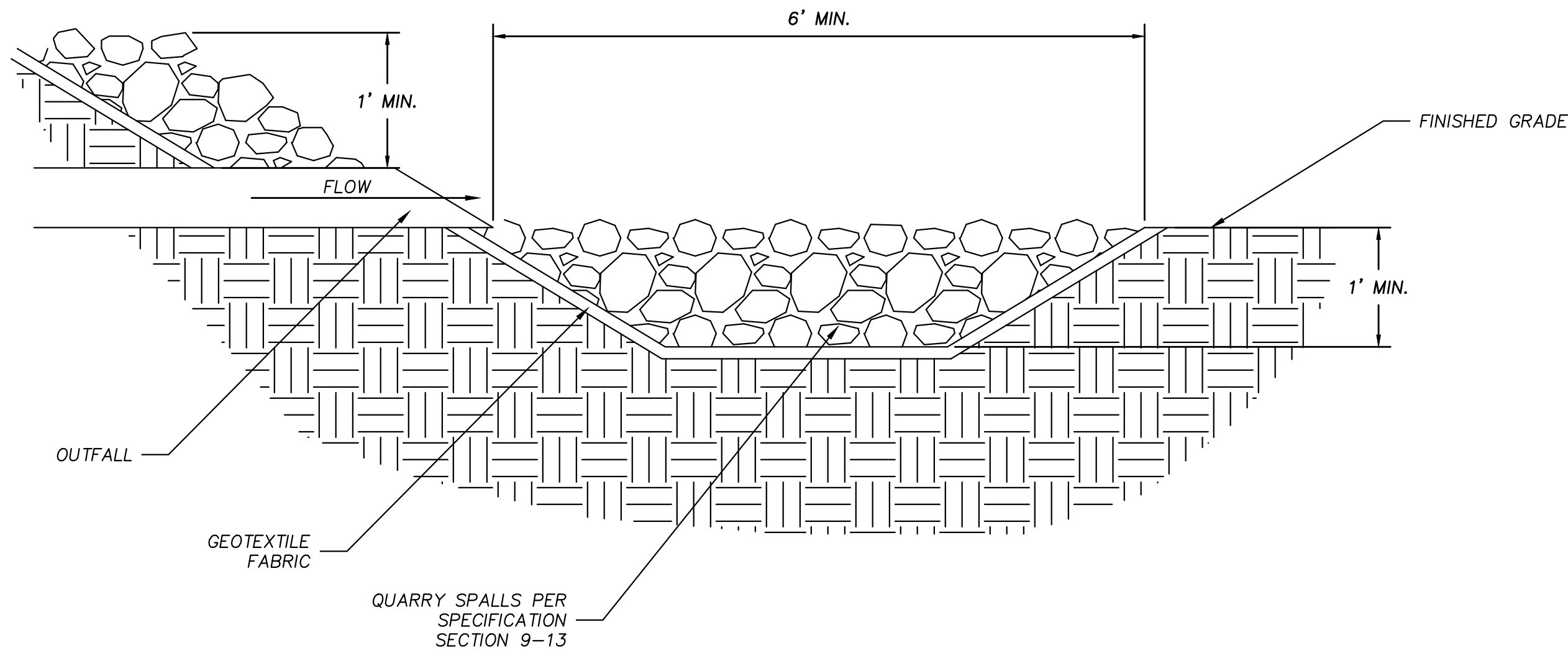


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CHECKED: TEO
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VERT. SCALE: 1"=2'
FILE: WESTMINSTER POND REHAB

WESTMINSTER POND REHABILITATION SECTIONS & PROFILES

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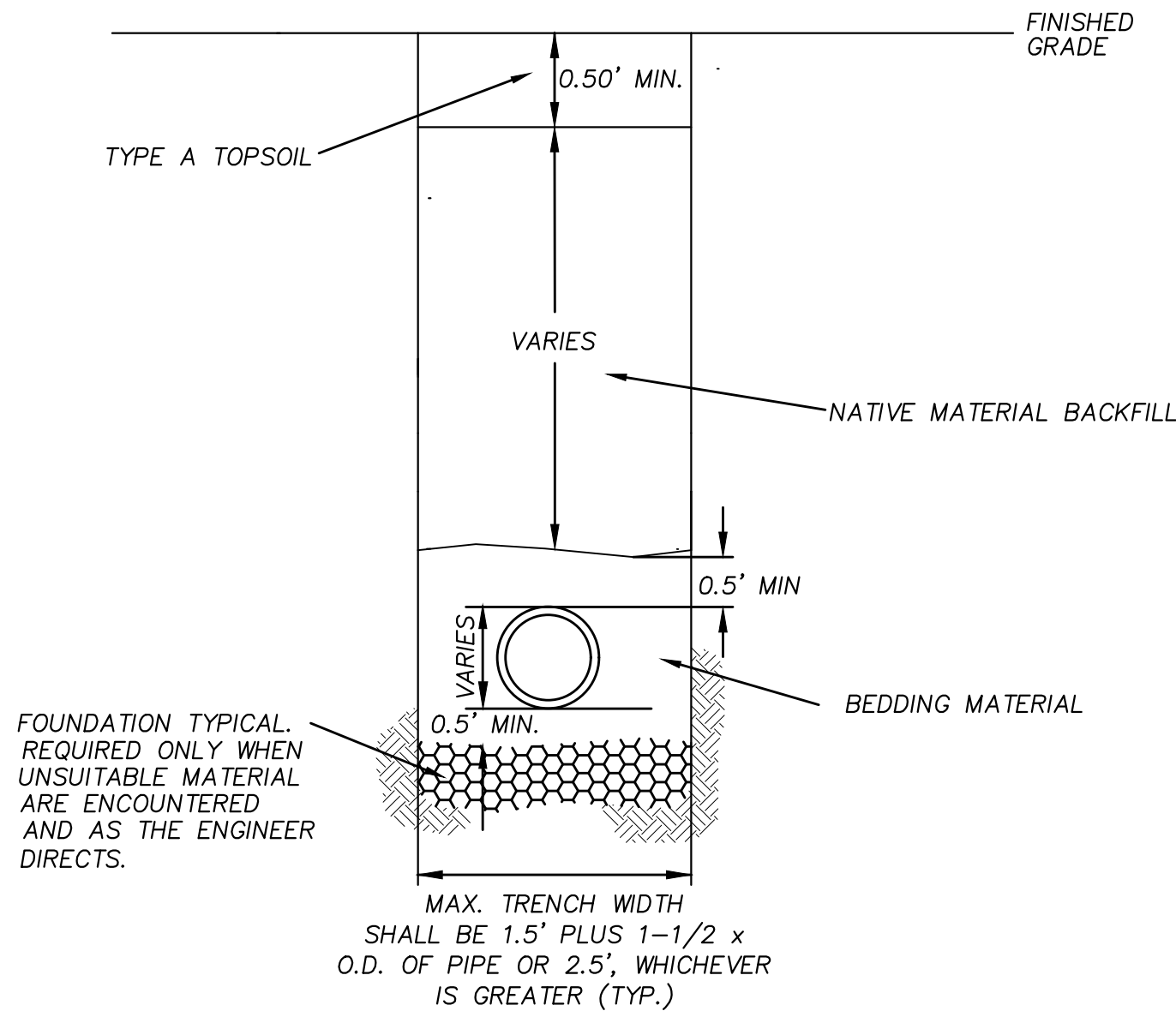
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OUTFALL PROTECTION
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OUTFALL PROTECTION NOTES:

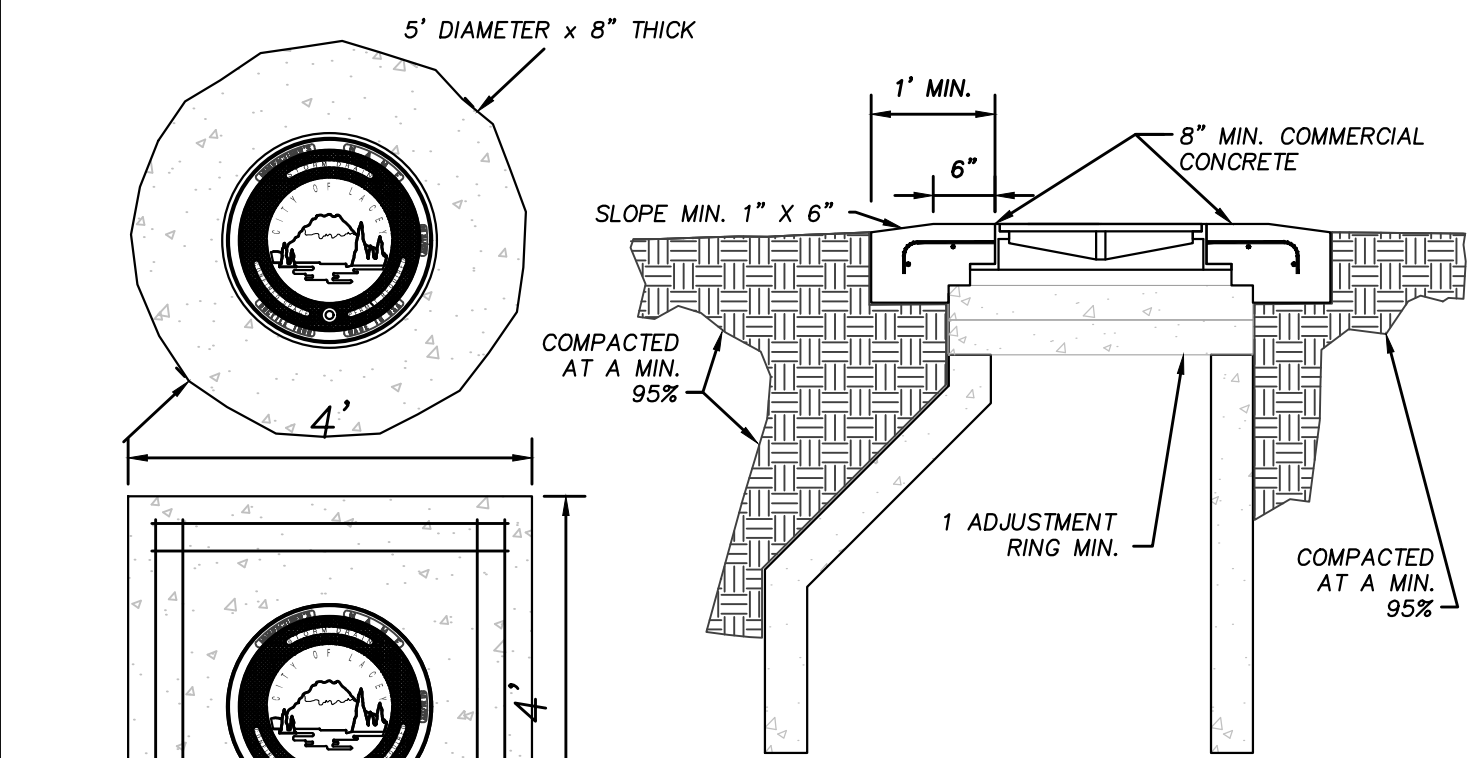
1. PROTECT THE RECEIVING BODY FROM EROSION AT THE OUTLET OF A CULVERT BY ROCK LINING A MINIMUM OF 6 FEET DOWNSTREAM AND EXTENDING UP THE CHANNEL SIDES A MINIMUM OF 1 FOOT ABOVE THE OUTFALL PER THE DETAIL ON D5. THE SPLASH PAD SHALL BE A MINIMUM OF 1-FOOT THICK AND 4-FEET WIDE.
2. QUARRY SPALLS AND RIP RAP USED FOR EROSION AND SCOUR PROTECTION SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 9-13.
3. PLACE FILTER FABRIC OR EROSION CONTROL BLANKETS UNDER QUARRY SPALLS TO PREVENT SCOUR AND CHANNEL EROSION.
4. BANK STABILIZATION AND BIOENGINEERING MAY BE REQUIRED FOR DISTURBED AREAS.
5. ADD ROCK AS NEEDED TO MAINTAIN EROSION PROTECTION.
6. REMOVE ANY ACCUMULATED SEDIMENT FROM THE QUARRY SPALLS.



GENERAL NOTES:

1. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY AS DETERMINED BY ASTM D1557.
2. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF LACEY STANDARDS.
3. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
4. IN AREAS WHERE PIPE COVER DECREASES TO SUCH AN EXTENT THAT IT IS NOT FEASIBLE TO FOLLOW THIS DETAIL, DECREASE THE QUANTITY OF BEDDING MATERIAL BEFORE DECREASING THE QUANTITY OF TOPSOIL

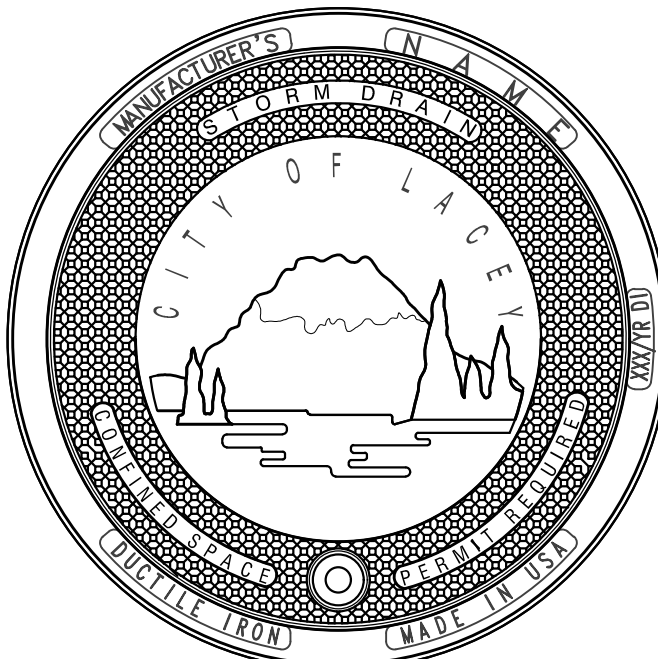
TRENCH RESTORATION
N.T.S.



MANHOLE OUTSIDE ASPHALT

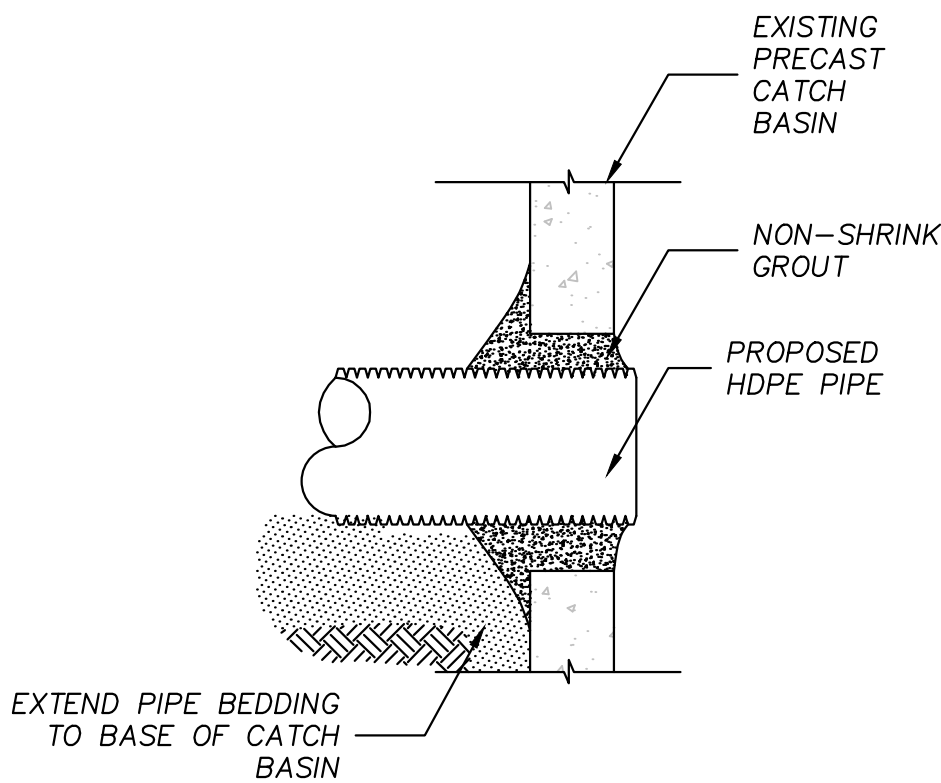
GENERAL NOTES:

1. ALL CONCRETE PADS FOR MANHOLES OUTSIDE THE ASPHALT SHALL HAVE REINFORCING STEEL AS SHOWN ABOVE, REBAR TO MEET ASTM A615 GRADE 60 FY=60,000 P.S.I.
2. ALL MANHOLE FRAME AND COVER ASSEMBLIES SHALL BE EJCO OR OLYMPIC FOUNDRY, WSDOT STYLE #41 WITH THE CITY LOGO STAMPED IN IT, DUCTILE IRON AND MANUFACTURED IN THE U.S.A.
3. ADJUST GRADE RINGS WITH BRICK WEDGES OR GROUT. NO WOOD OR ROCKS SHALL BE USED AS ADJUSTMENT SPACERS.
4. DEVIATION FROM COMPACTION STANDARDS MAY BE APPROVED BY THE DIRECTOR, OR DESIGNEE, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.
5. EXISTING SURFACES PAVED WITH PERMEABLE MATERIALS SHALL BE REPLACED IN-KIND WHERE FEASIBLE IN CONFORMANCE WITH 4B.180 TRENCH BACKFILL AND RESTORATION.



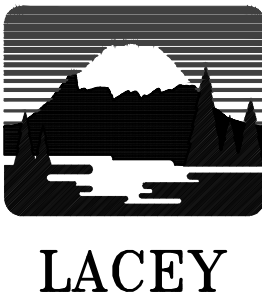
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STORM DRAIN MANHOLE LOGO COVER AND FRAME INSTALLATION
N.T.S.



CONNECTION TO EXISTING CATCH BASIN
N.T.S.

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WESTMINSTER POND REHABILITATION
GENERAL DETAILS

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