

LEGEND

	BUILDING OVERHANG
	LOT LINES
	DRIVEWAY BOUNDARY
	PROPERTY BOUNDARY
	BUILDING EDGE
	SURVEY ALIGNMENT
	41ST PAVEMENT EDGE
	FOUND MONUMENT AS DESCRIBED
	FOUND PIPE/REBAR AS DESCRIBED
	MADRONA O OAK
	DOGWOOD
	CHAIN LINK FENCE
	VERTICAL BOARD FENCE
	ROCKERY
	INLET FILTER (W.S.D.O.T. STD DTL. 1-40.20-00)
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE DOE STD DTL. BMP 205
	CLEARING LIMITS
	TREE PROTECTION FENCE
	FILTER FABRIC FENCE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	ONSITE TREE TO BE REMOVED

CONSTRUCTION SEQUENCE

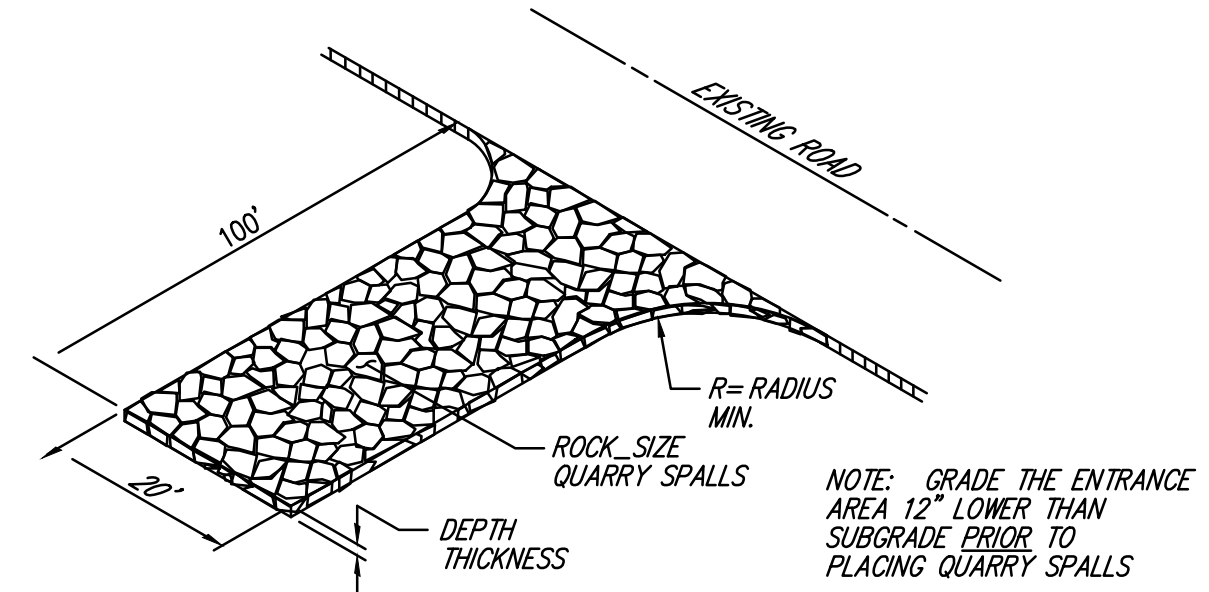
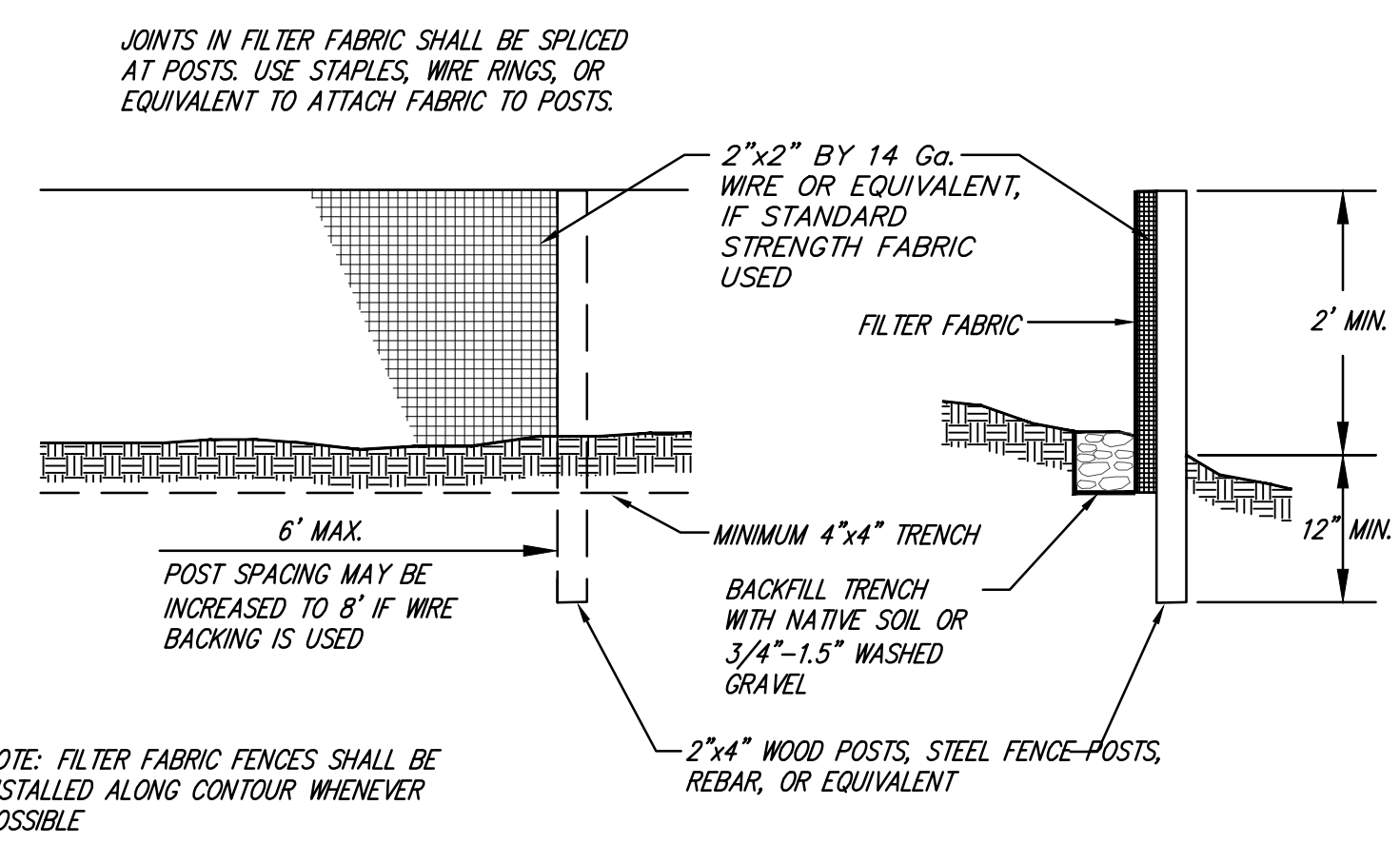
- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF MERCER ISLAND BY PHONING (206)-275-7726.
- FLAG LIMITS OF CLEARING IN FIELD AS INDICATED ON SHEET C2.01.
- CLEAR FOR AND CONSTRUCT THE ROCKED CONSTRUCTION ACCESS.
- CONSTRUCT PERIMETER FILTER FABRIC FENCES.
- CONSTRUCT DOWNSTREAM DISCHARGE SYSTEM, INTERCEPTOR SWALES, ROCK CHECK DAMS, STORM DRAINAGE PIPES, RIP RAP PADS.
- CLEAR & GRADE SITE WHILE EXTENDING TEMPORARY INTERCEPTOR SWALE AS CONSTRUCTION PROCEEDS. ALL SILT-LADEN RUNOFF SHALL BE DIRECTED TO SEDIMENT RETENTION FACILITIES.
- CLEAR FOR AND CONSTRUCT DETENTION TANK FOR USE FOR SEDIMENT RETENTION AND CONSTRUCT DISCHARGE SYSTEM.
- CONSTRUCT SANITARY SEWER, WATER, & REMAINING STORM DRAINAGE FACILITIES PER THE APPROVED PLANS.
- FINE GRADE AND PAVE THE DRIVEWAY.
- UPON COMPLETION OF GRADING ACTIVITIES, STABILIZE ALL DISTURBED AREAS, REMOVE EXCESS SEDIMENT FROM THE TANK AND REMOVE ALL TEMPORARY EROSION/ SEDIMENTATION CONTROL FACILITIES.

TREE PROTECTION NOTES

- CONTRACTOR SHALL COORDINATE WITH ARBORIST ON GRADING AROUND RETAINED TREES AND ROOTS.
- ARBORIST TO BE ONSITE TO VERIFY PRESERVATION OF RETAINED TREES

PUMP NOTES

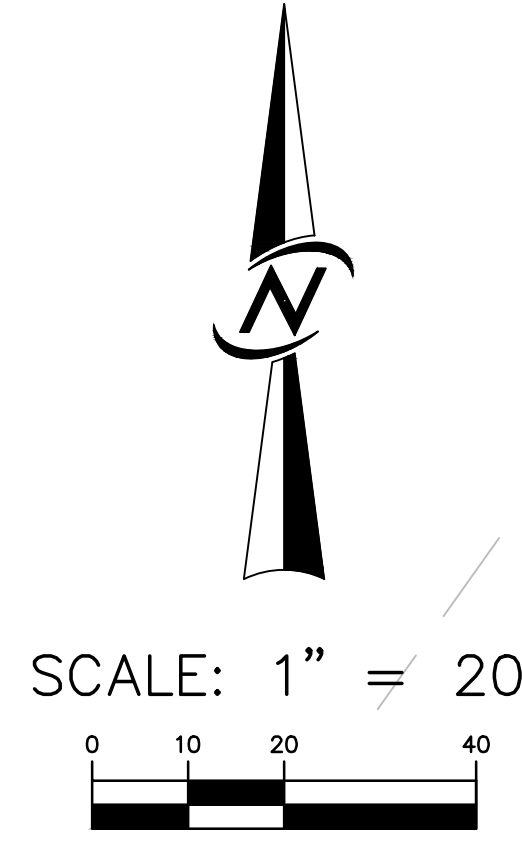
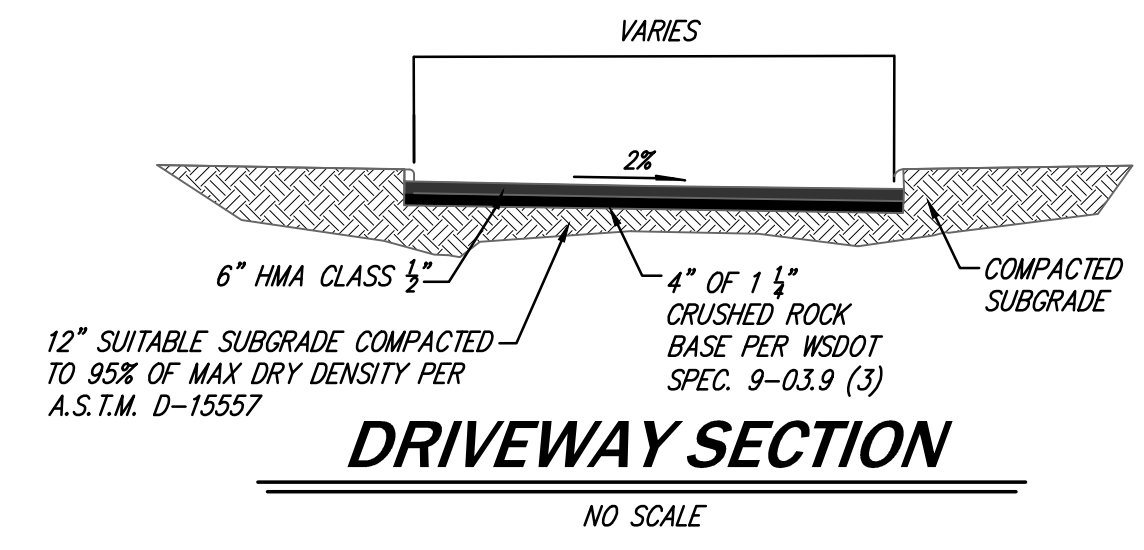
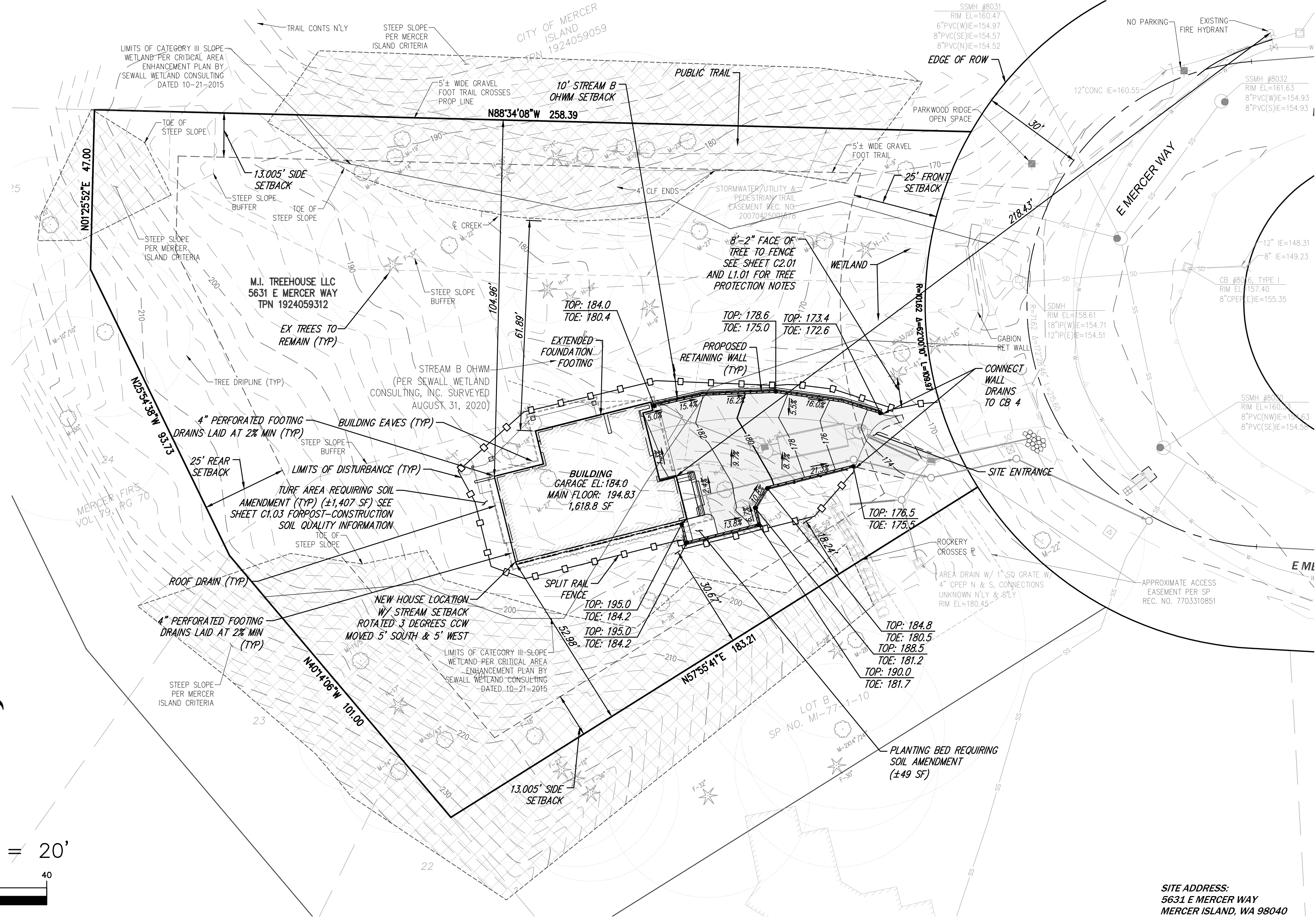
- PROVIDE TEMPORARY PUMP POWER WITH GODWIN G 20KW-S GENERATOR (OR APPROVED EQUIVALENT)
- PUMP AT 120 GPM, 20 FT TOTAL DYNAMIC HEAD
- FIELD ADJUST FORCE MAIN ROUTE AND CROSSING AS NECESSARY



UNDERGROUND LOCATOR SERVICE
CALL BEFORE YOU DIG!
811

UTILITY CONFLICT NOTE:
CAUTION:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POTHOLES THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT CORE DESIGN, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

DATE	DESIGNED	DRAWN	APPROVED	PROJECT MANAGER
OCTOBER 2020	FLAVIO BAINOTTI	CHUCK FEMLING	MICHAEL MOODY, PE	MICHAEL MOODY, PE
REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS
10/6/22	5/30/23	6/30/23	8/2/23	2/6/24
2	3	4	5	6
CIVIL ENGINEERING LANDSCAPE ARCHITECTURE PLANNING SURVEYING				
12100 NE 195th St, Suite 300, Bothell, Washington 98011 425.885.7877				
TESC & TREE RETENTION PLAN MERCER ISLAND TREEHOUSE MI TREEHOUSE LLC PO BOX 261 MEDINA, WA 98040				
SHEET	OF	PROJECT NUMBER		
C2.01	8	18039		



SITE ADDRESS:
5631 E MERCER WAY
MERCER ISLAND, WA 98040

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811

UTILITY CONFLICT NOTE:
CAUTION:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POT-HOLING THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE # 1-800-424-555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT CORE DESIGN, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

DATE	OCTOBER 2020	DESIGNED	FLAVIO BAINOTTI
DESIGNED	FLAVIO BAINOTTI	DRAWN	CHUCK FEMLING
DRAWN	CHUCK FEMLING	APPROVED	MICHAEL MOODY, PE
APPROVED	MICHAEL MOODY, PE	PROJECT MANAGER	MICHAEL MOODY, PE
DATE	10/01/20	REVISIONS	PER CITY COMMENTS
DATE	07/30/23	REVISIONS	PER CITY COMMENTS
DATE	07/30/23	REVISIONS	PER CITY COMMENTS
DATE	08/21/23	REVISIONS	PER CITY COMMENTS
DATE	08/21/23	REVISIONS	PER CITY COMMENTS
DATE	08/21/23	REVISIONS	PER CITY COMMENTS
DATE	11/12/24	REVISIONS	PER CITY COMMENTS
SHEET		OF	
C3.01		8	
PROJECT NUMBER			
18039			

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

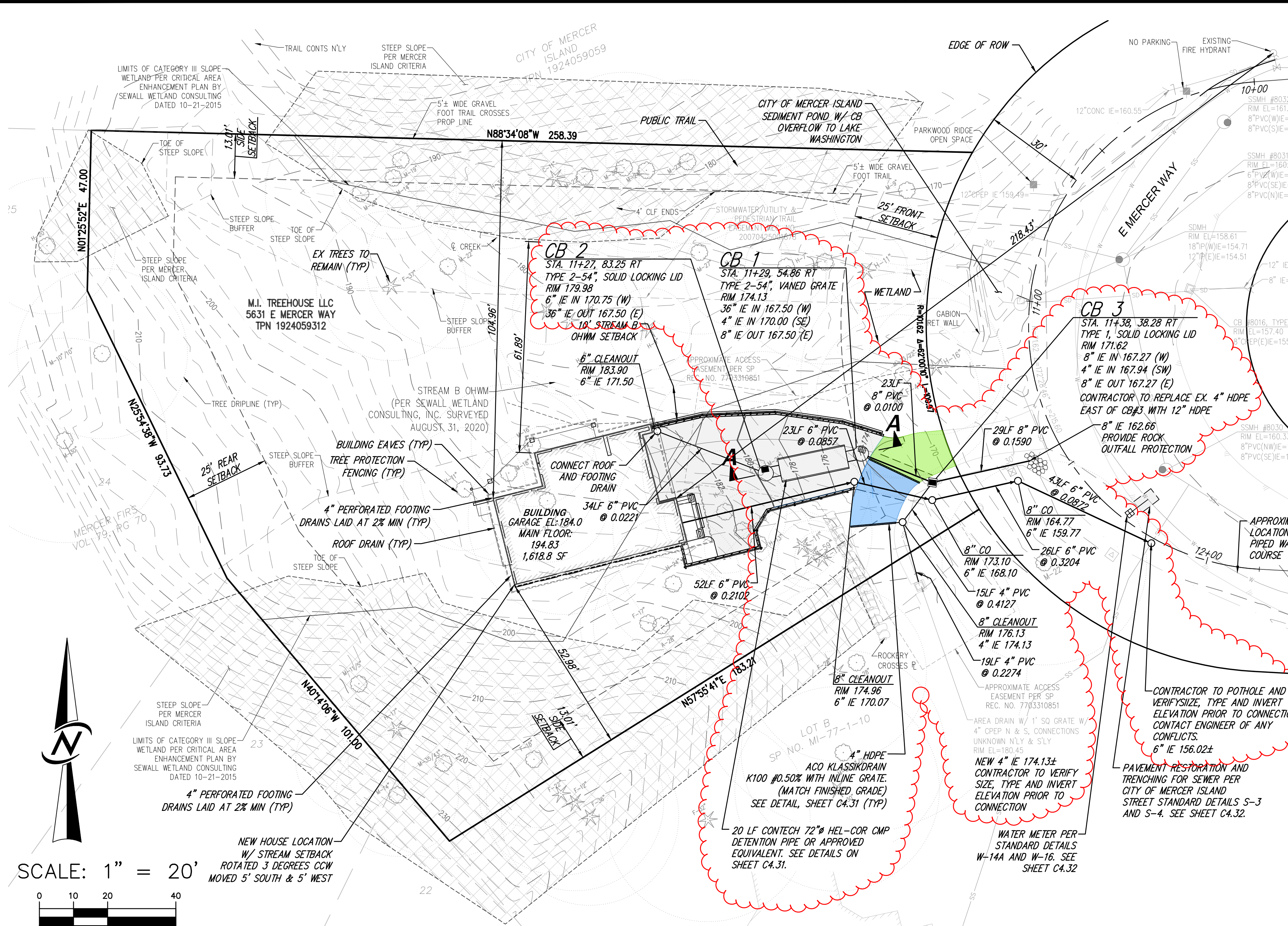
12100 NE 195th St, Suite 300
Bellevue, Washington 98011 425.885.7877

GRADING PLAN
MERCER ISLAND TREEHOUSE
MI TREEHOUSE LLC
PO BOX 261
MEDINA, WA 98040

DATE: OCTOBER 2020
DESIGNED: FLAVIO BAINOTTI
DRAWN: CHUCK FEMLING
APPROVED: MICHAEL MOODY, PE
PROJECT MANAGER: MICHAEL MOODY, PE

11-12-2024

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STORM DRAINAGE GENERAL NOTES

- 1. ALL NEW CATCH BASINS SHALL CONFORM TO THE APWA WSDOT STANDARD DETAILS.
2. THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED.
3. PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION FILTER AND SILT REMOVAL FACILITIES TO ENSURE THAT SEDIMENT OR OTHER HAZARDOUS MATERIALS DO NOT ENTER THE STORM DRAINAGE SYSTEM...

GENERAL NOTES

- 1. CONTRACTOR IS TO OBTAIN PERMITS AND GUARANTEES.
2. ALL DAMAGE TO ADJACENT PROPERTIES OR PUBLIC RIGHTS-OF-WAY RESULTING FROM CONSTRUCTION (E.G., SILTATION, MUD, WATER RUNOFF, ROADWAY DAMAGES CAUSED BY CONSTRUCTION EQUIPMENT OR HAULING) SHALL BE EXPEDITIOUSLY MITIGATED AND REPAIRED BY THE CONTRACTOR...

TREE PROTECTION NOTES

- 1. CONTRACTOR SHALL COORDINATE WITH ARBORIST ON GRADING AROUND RETAINED TREES AND ROOTS.
2. ARBORIST TO BE ON-SITE TO VERIFY PRESERVATION OF RETAINED TREES

WATER GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DEVELOPER EXTENSION AGREEMENT, THE STANDARD SPECIFICATIONS AND THE STANDARD DETAILS OF THE CITY OF MERCER ISLAND.
2. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON PLANS AND PROFILES FOR CONVENIENCE. THE CONTRACTOR SHALL POT-HOLE AND VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION...

SEWER GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DEVELOPER EXTENSION AGREEMENT, THE STANDARD SPECIFICATIONS, STANDARD DETAILS OF THE CITY OF MERCER ISLAND.
2. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON PLANS AND PROFILES FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON PLANS...

- CONSTRUCTION
11 THE SEWER MAIN SHALL BE PLACED FIVE (5) FEET SOUTH OR WEST FROM THE CENTERLINE OF THE ROADWAY, UNLESS OTHERWISE SHOWN ON THE PLAN.
12 A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN THE SANITARY SEWER LINE AND THE WATER MAIN.
13 AFTER TRENCH BACKFILL AND COMPACTION, PVC SANITARY SEWER MAINS SHALL BE TESTED FOR DEFLECTION AS SPECIFIED IN SECTION 7-17.3(2)G OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION TEST OBSERVATION AND INSPECTION BY NORTHSHORE...

AREAS TABLE

Table with 2 columns: Area Type and Area. Includes INTAKE AREA: 248 SQ. FT. and BYPASS AREA: 248 SQ. FT.

NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL & VERTICAL LOCATION OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF ANY CONFLICTS ARISE. EXISTING LOCATION & ELEVATION DETERMINED BY GROUND PENETRATING RADAR.
2. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL & VERTICAL LOCATION OF EXISTING STORM LINE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF ANY CONFLICTS ARISE.

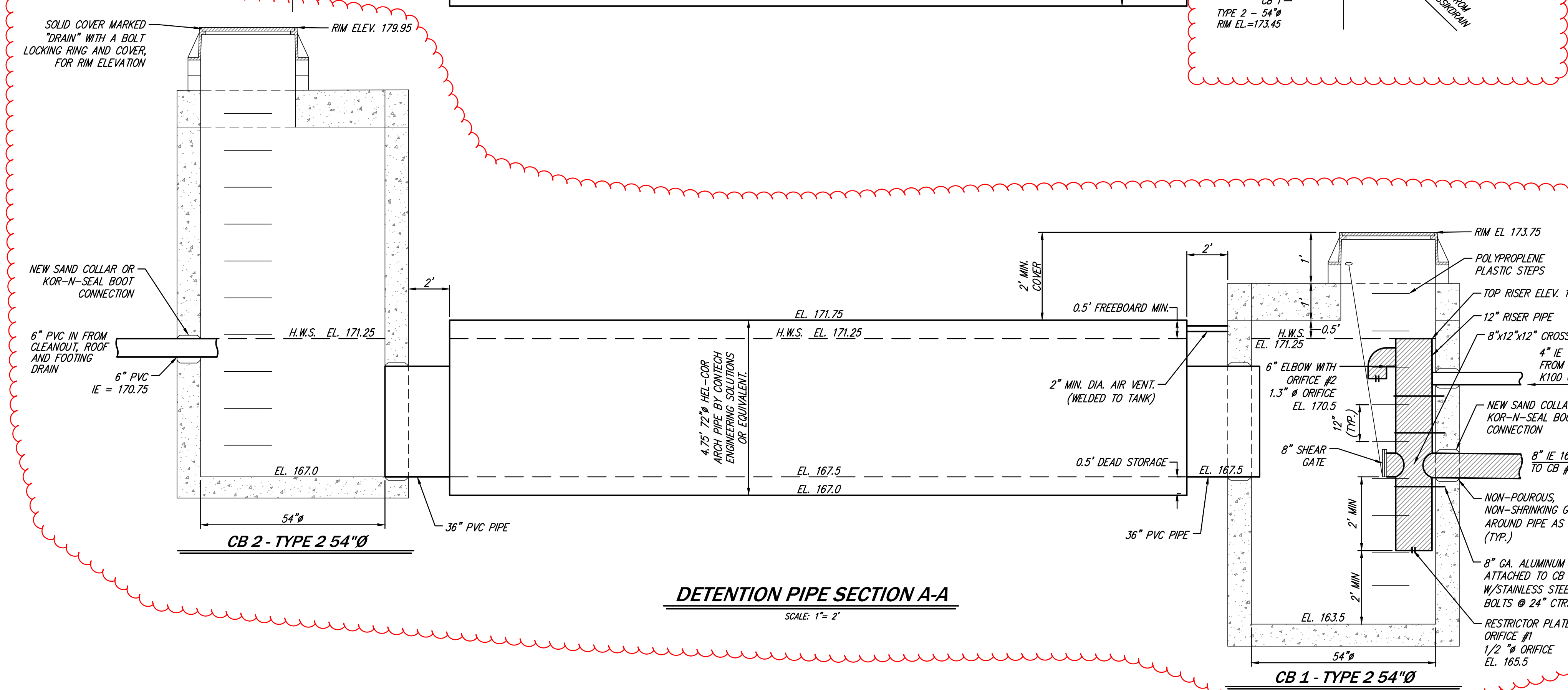
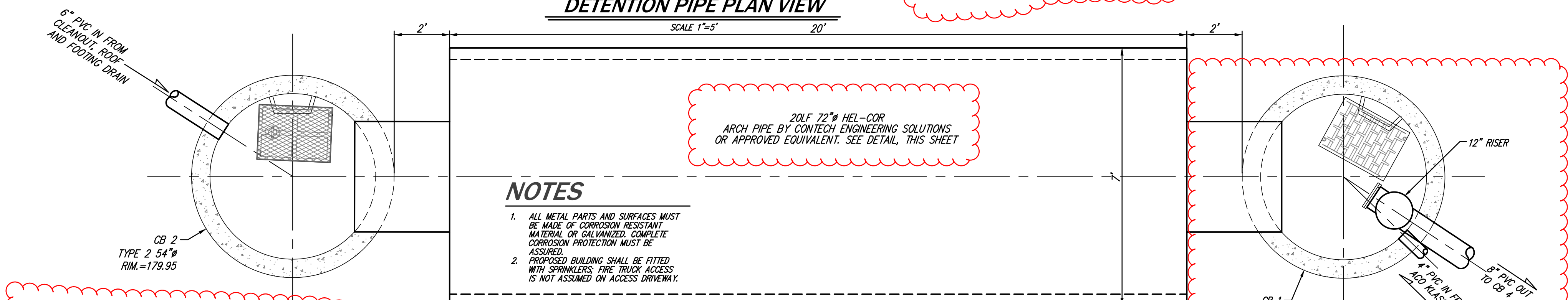
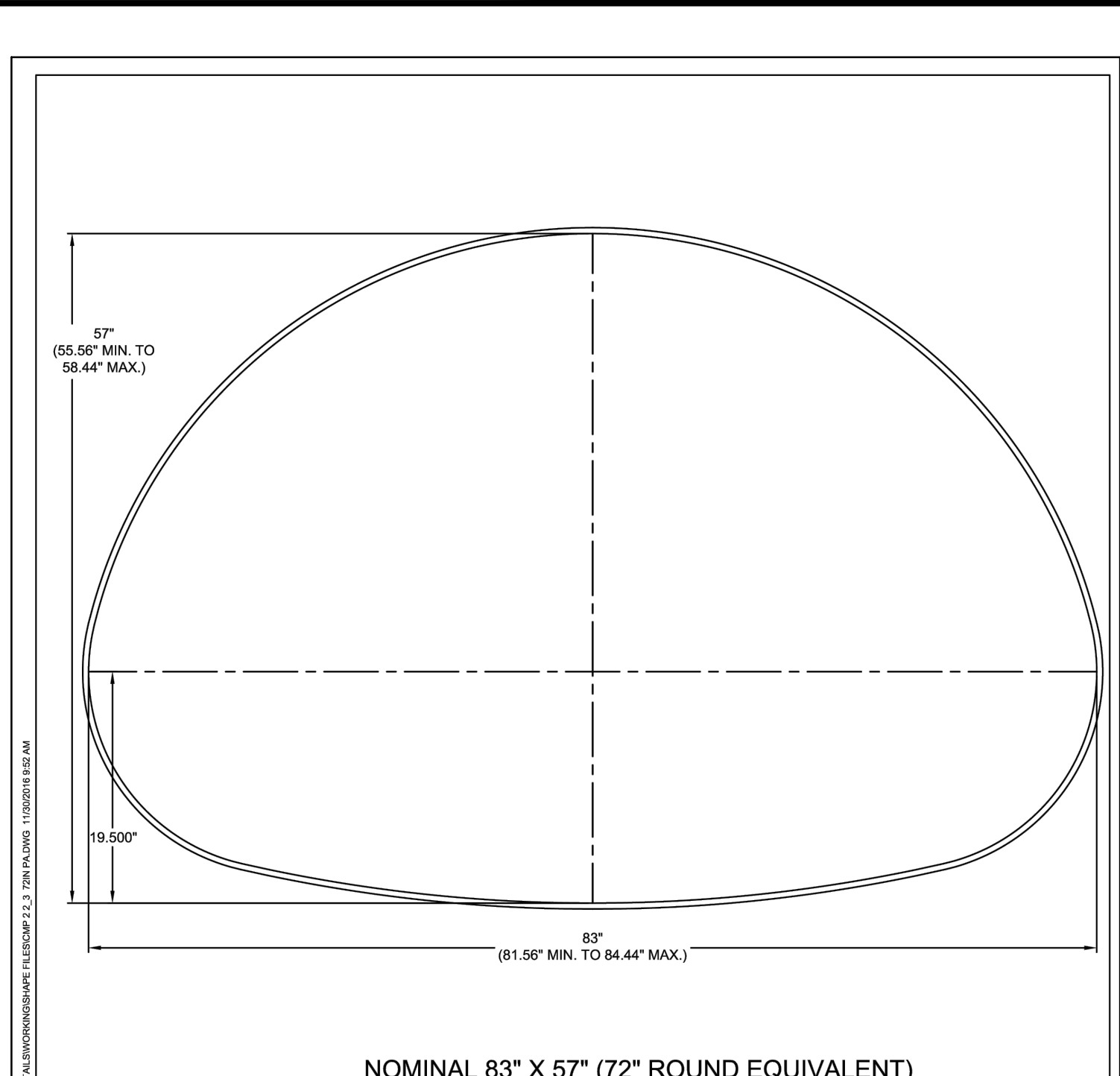
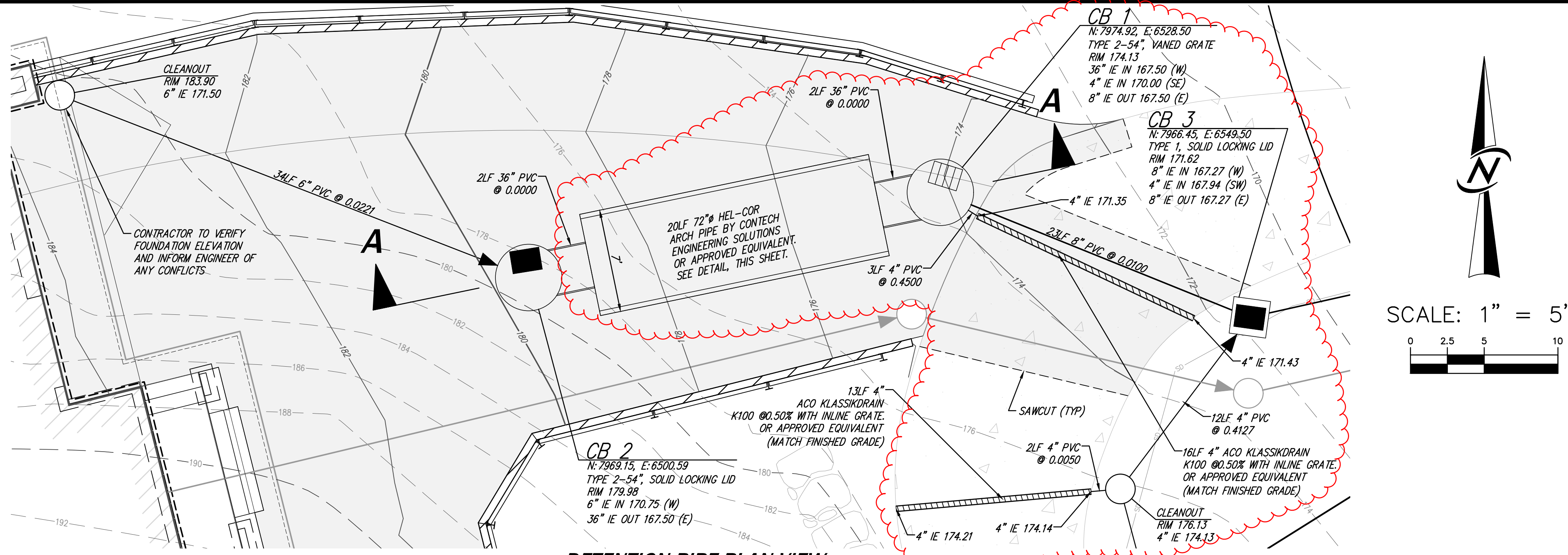
SITE ADDRESS

5631 E MERCER WAY
MERCER ISLAND, WA 98040

UNDERGROUND LOCATOR SERVICE
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811

UTILITY CONFLICT NOTE:
CAUTION:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POT-HOLING THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION...

Vertical sidebar containing project information: DATE (OCTOBER 2020), DESIGNED (FLAVIO BANOTTI), DRAWN (CHUCK FEMLING), APPROVED (MICHAEL MOODY, PE), PROJECT MANAGER (MICHAEL MOODY, PE), SHEET (C4.01) OF (8), PROJECT NUMBER (18039). Includes logos for CORE DESIGN and MI TREEHOUSE LLC.



DATE	DESIGNED	DRAWN	APPROVED	PROJECT MANAGER
OCTOBER 2020	FLAVIO BIANOTTI	CHUCK FEMLING	MICHAEL MOODY, PE	MICHAEL MOODY, PE
REVISIONS PER CITY COMMENTS	10/06/20	REVISIONS PER CITY COMMENTS	05/20/23	REVISIONS PER CITY COMMENTS
2		3		4
3		4		5
4		5		6
5		6		
6				

DATE: 11-12-2024

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

CORE
DESIGN

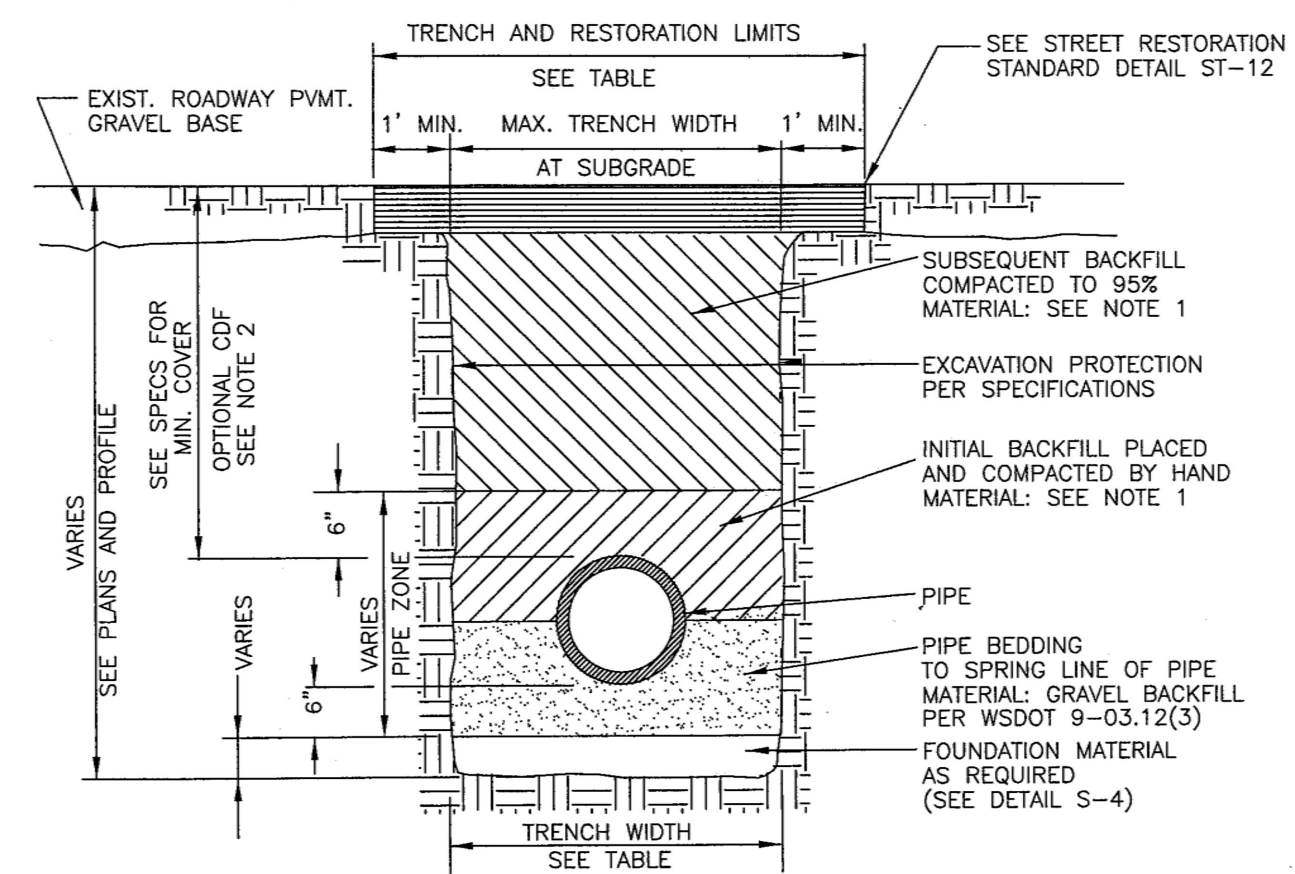
12100 NE 195th St, Suite 300, Bothell, Washington 98011 425.885.7877

STORM DRAINAGE DETAILS
MERCER ISLAND TREEHOUSE
MI TREEHOUSE LLC
PO BOX 261
MEDINA, WA 98040

DATE: OCTOBER 2020
DESIGNED: FLAVIO BIANOTTI
DRAWN: CHUCK FEMLING
APPROVED: MICHAEL MOODY, PE
PROJECT MANAGER: MICHAEL MOODY, PE

SHEET OF
C4.31 **8**

PROJECT NUMBER
18039



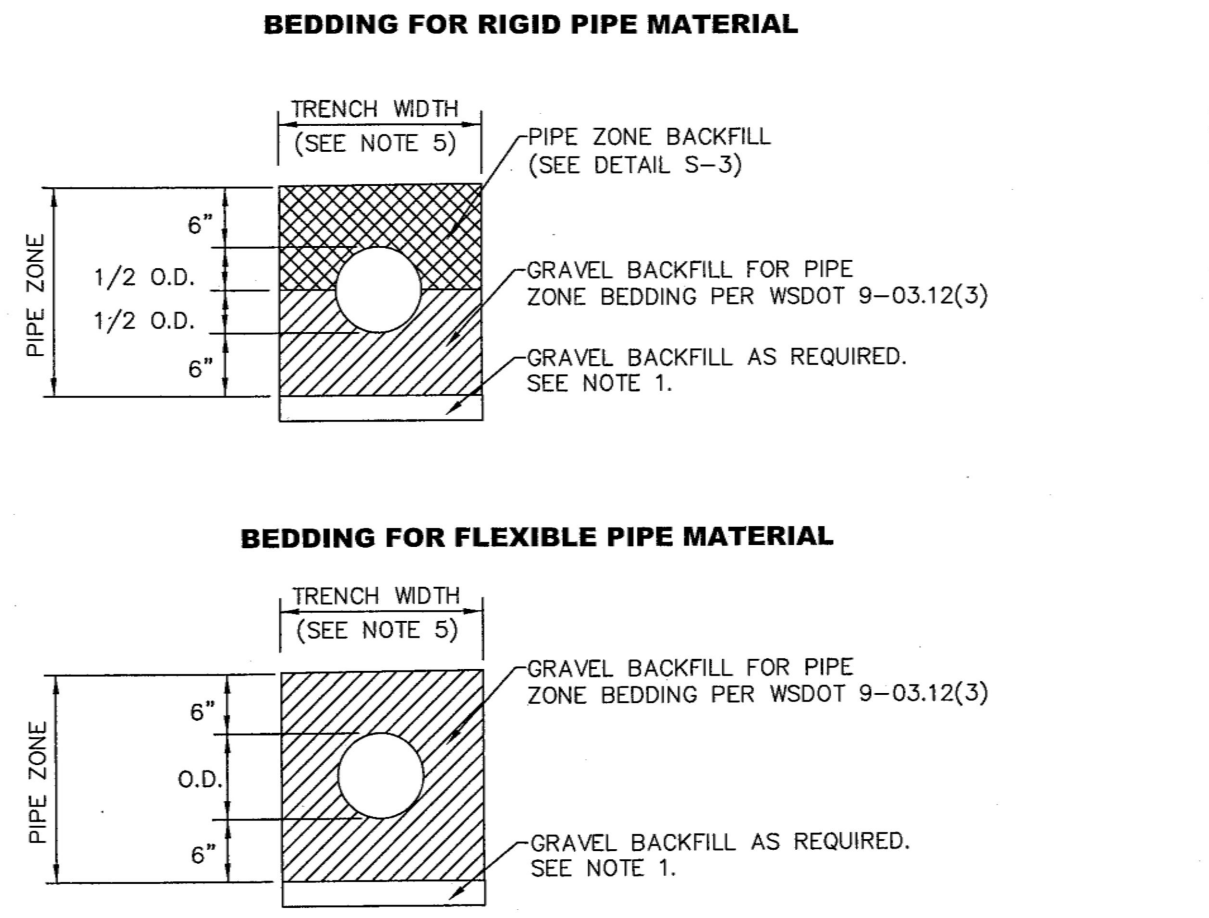
PIPE SIZE	PIPE ZONE MAX. TRENCH WIDTH AT SUBGRADE	MAX. RESTORATION WIDTH AT SURFACE
4" OR 6"	2'-2"	3'-0"
8"	2'-4"	4'-0"
10"	2'-6"	4'-0"
12"	2'-8"	4'-6"

- NOTES**
- ALL TRENCH BACKFILL IN PUBLIC RIGHT-OF-WAY OR ROADWAY AREAS SHALL BE CRUSHED SURFACING PER WSDOT 9-09.9(3) OR BANK RUN GRAVEL PER WSDOT 9-03.19, COMPACTED IN 6" LIFTS.
 - CDF FOR BACKFILL MAY BE REQUIRED BY CITY ENGINEER WHEN PROPER COMPACTION AROUND EXISTING UTILITIES MAY NOT BE POSSIBLE. CDF SHALL BE PER WSDOT 2-09.3(1).
 - SEE S-4 FOR PIPE BEDDING DETAILS.

**CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
SEWER
TRENCH DETAIL**

6-5-2009 NO SCALE **S-3**

REV DATE APPROVED

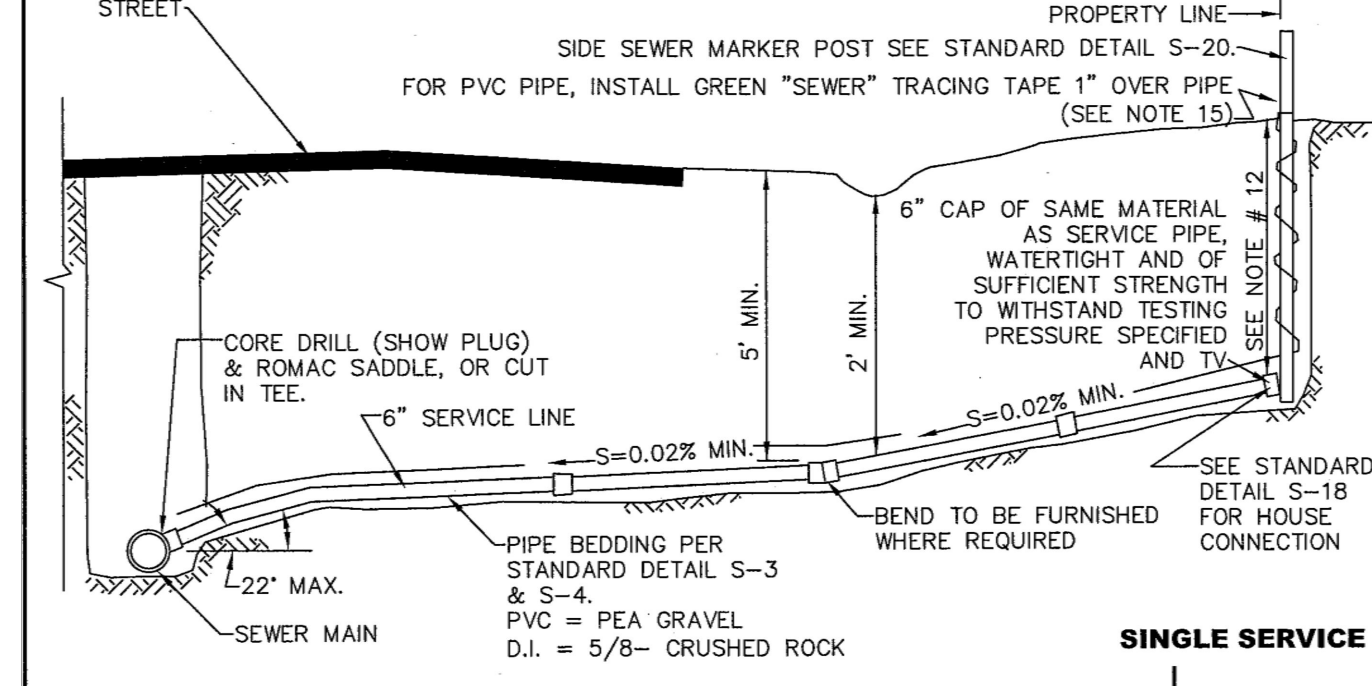


- NOTES**
- EXCAVATE UNSTABLE MATERIAL DOWN TO FIRM SOIL. REPLACE WITH GRAVEL BACKFILL PER WSDOT 9-03.12(3) AS DIRECTED BY THE CITY ENGINEER.
 - PROVIDE UNIFORM SUPPORT UNDER BARREL.
 - HAND TAMP UNDER HAUNCHES.
 - COMPACT BEDDING AND BACKFILL MATERIAL TO 95% MAX. DENSITY EXCEPT DIRECTLY OVER PIPE. HAND TAMP ONLY UNTIL MINIMUM 6" ABOVE TOP OF PIPE.
 - 30" MAXIMUM TRENCH WIDTH FOR PIPE UP TO AND INCLUDING 12", FOR PIPE LARGER THAN 12", USE O.D. PLUS 16".

**CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
PIPE
BEDDING**

6-5-2009 NO SCALE **S-4**

REV DATE APPROVED

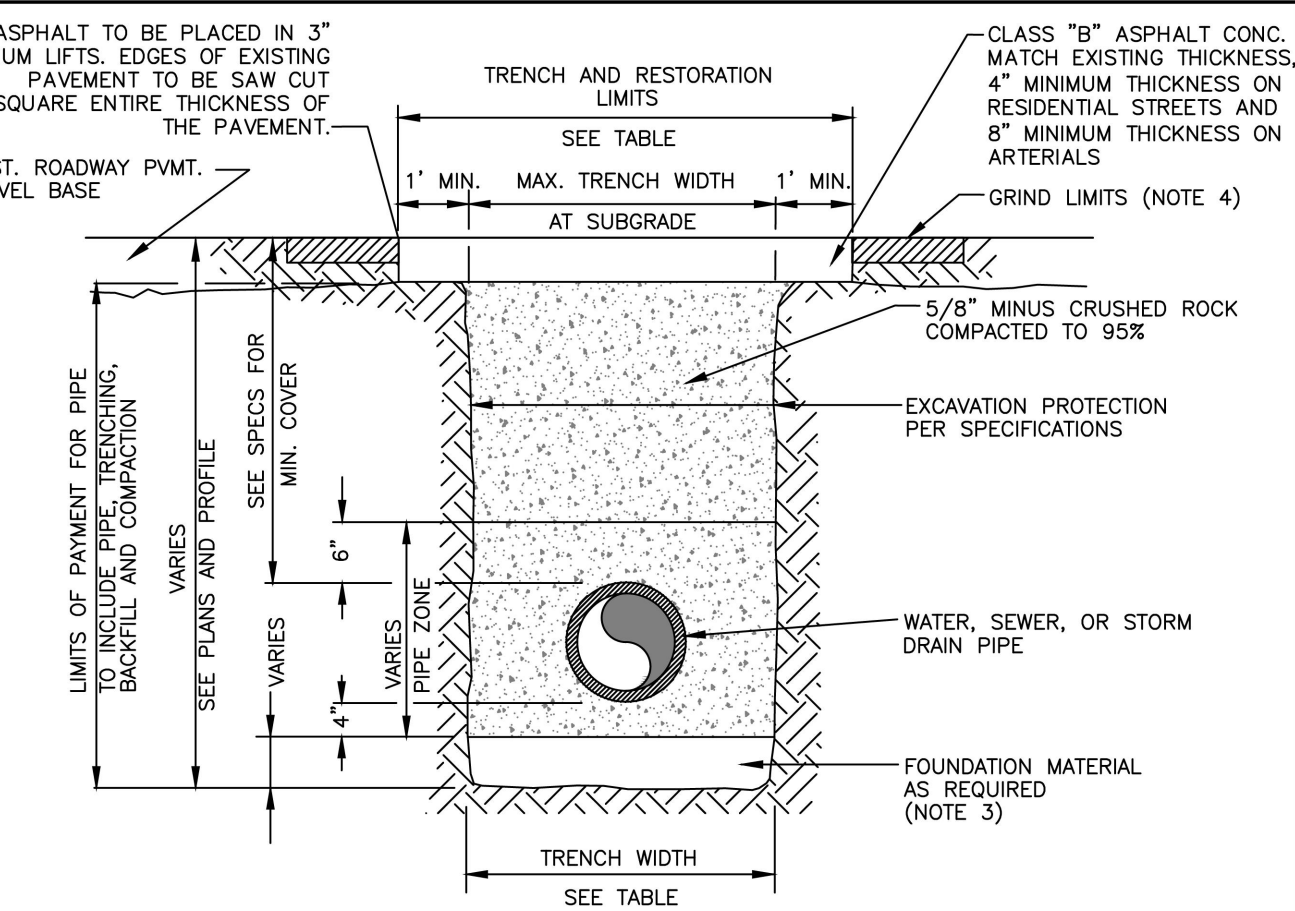


- NOTES**
- ELBOWS SHALL NOT BE GREATER THAN 45 DEGREES.
 - CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90° ACCUMULATED ELBOW/100'.
 - RIGHT-OF-WAY RESTORATION SHALL MATCH OR EXCEED THE ORIGINAL CONDITION AND BE IN ACCORDANCE WITH CITY STANDARDS.
 - ALL TRENCH BACKFILL IN PUBLIC RIGHT-OF-WAY OR ROADWAY AREAS SHALL BE CRUSHED SURFACING PER WSDOT 9-09.9(3) OR BANK RUN GRAVEL PER WSDOT 9-03.19, COMPACTED IN 6" LIFTS OR MAY BE CDF WHEN DIRECTED BY THE CITY ENGINEER (SEE DETAIL S-3).
 - LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH 1/8 BEND OR WYE. 90° CHANGE WITH 1/8 BEND AND WYE.
 - 6" SEWER PIPE MINIMUM SIZE IN RIGHT-OF-WAY, AND ELSEWHERE AS DIRECTED BY ENGINEER. 2" MIN. GRADE (UNLESS DIRECTED BY ENGINEER), 50% MAXIMUM.
 - ALL A.C. MAINS TO BE TAPPED IN ACCORDANCE WITH WAC 296-02-0075 STATE/FEDERAL GUIDELINES AND CERTIFICATION.
 - CONSTRUCTION IN RIGHT-OF-WAY MUST BE DONE BY A REGISTERED AND LICENSED CONTRACTOR.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY SEWER ORDINANCES.
 - WHERE CITY ENGINEER ALLOWS SIDE SEWER CONNECTIONS TO MANHOLE, INVERT OF SIDE SEWER SHALL BE EQUAL TO OR ABOVE MAIN SEWER CROWN, BUT NOT TO EXCEED 18" ABOVE INVERT OF MAIN SEWER.
 - UNLESS OTHERWISE INDICATED ON PLAN, SIDE SEWER SHALL BE MIN. OF 6" DEEP AT PROPERTY LINE, OR 5" LOWER THAN THE LOWEST ELEVATION, WHICH EVER IS LOWER.
 - ALL PIPE MATERIALS NOT TO STANDARDS WILL BE ABANDONED AND REPLACED WITH DUCTILE IRON OR PVC PIPE OF THE SAME SIZE.
 - IF A BUILDING SEWER IS TO SERVE MORE THAN ONE PROPERTY, BY JOINT AGREEMENT OF THE OWNERS, AN APPROVED EASEMENT INSURING THAT ALL PROPERTIES INVOLVED SHALL HAVE PERPETUAL USE OF THE SIDE SEWER, HAVING PROVISIONS FOR OPERATION, MAINTENANCE, RECONSTRUCTION AND FOR ACCESS FOR REPAIR PURPOSES, SHALL BE SIGNED BY THE OWNERS. THIS EASEMENT SHALL BE RECORDED WITH THE COUNTY AUDITOR. A SIX INCH (MINIMUM) DIAMETER PIPE SHALL BE USED FOR THE COMMON LINE AND A SIX INCH CLEANOUT EXTENDING TO WITHIN 12 INCHES OF THE GROUND SURFACE SHALL BE PROVIDED AT THE WYE WHERE THE UPPER GRADE CONNECTIONS ARE MADE. BACKWATER VALVES SHALL BE INSTALLED ON SERVICE LINES UPSTREAM OF THE CONNECTION TO THE SHARED SIDE SEWER.
 - THE CITY ENGINEER MAY REQUIRE BACKWATER VALVES ON SIDE SEWERS WHEN DEEMED NECESSARY. THE EFFECTIVE OPERATION AND MAINTENANCE OF ANY BACKWATER VALVE SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE SIDE SEWER.
 - UTILITY PIPE TRACER TAPE SHALL BE DETECTABLE BELOW GROUND SURFACE, COLOR CODED, WITH UTILITY NAME PRINTED ON TAPE. CONDUCTIVE WARNING TAPE REQUIRED OVER ALL WATER PIPE. TAPE SHALL BE MANUFACTURER'S STANDARD PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED PLASTIC TAPE, ALUMINUM BACKED, INTENDED FOR DIRECT-BURIAL SERVICE. TAPE SHALL BE NOT LESS THAN 6" WIDE X 4 MILS THICK.

**CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
SIDE SEWER CONNECTION
AND STUB**

6-5-2009 NO SCALE **S-17**

REV DATE APPROVED



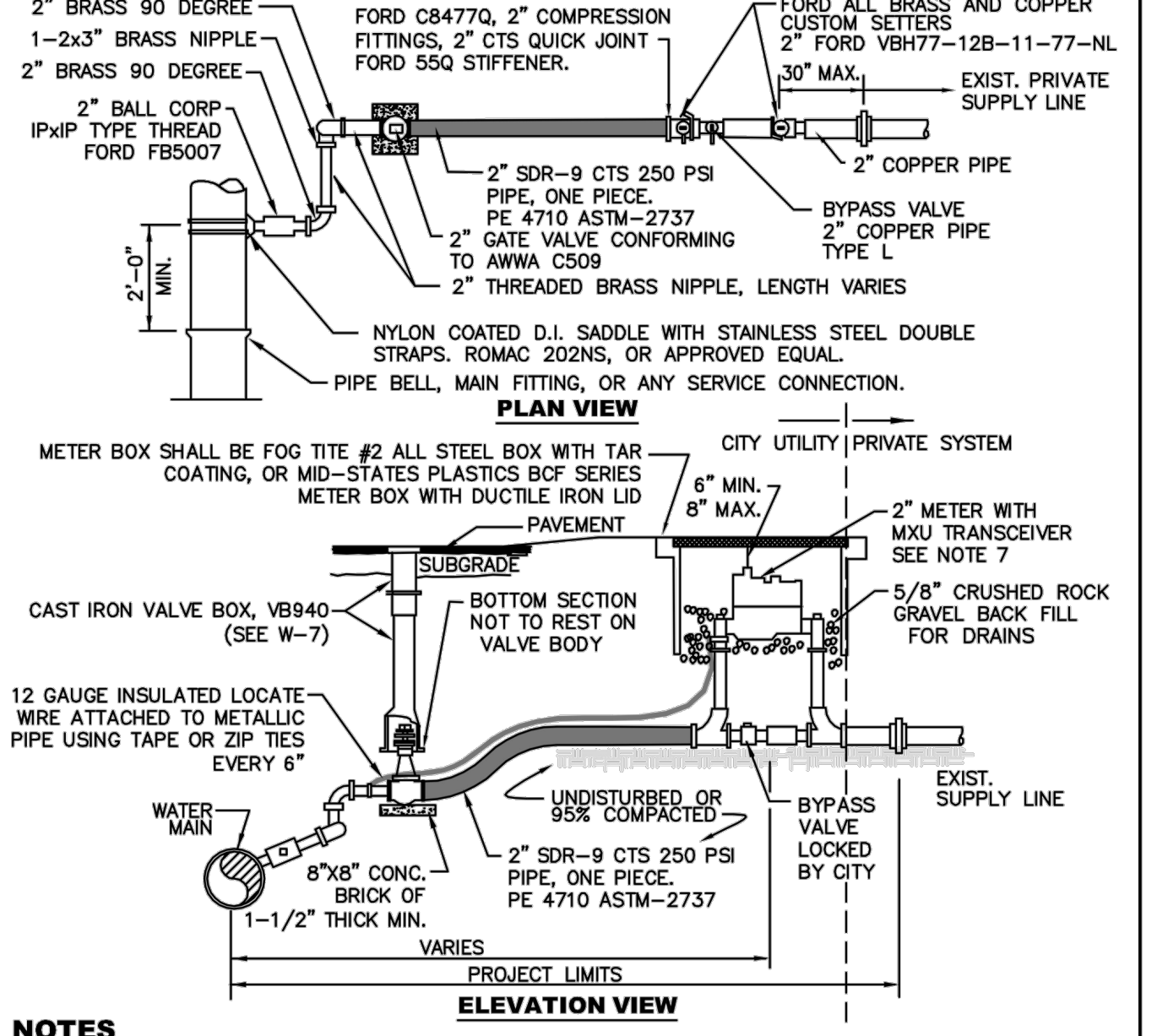
PIPE SIZE	PIPE ZONE MAX. TRENCH WIDTH AT SUBGRADE	MAX. RESTORATION WIDTH AT SURFACE
WATER SERVICES	2'-0"	4'-0"
4" OR 6"	2'-2"	3'-0"
8"	2'-4"	4'-0"
10"	2'-6"	4'-0"
12"	2'-8"	4'-6"
16"	3'-0"	5'-0"

- NOTES**
- CALL IN LOCATES TWO BUSINESS DAYS BEFORE YOU DIG. (1-800-424-5555)
 - IN RIGHT-OF-WAY USE 100% 5/8 MINUS CRUSHED ROCK FOR BEDDING, PIPE ZONE AND BACKFILL.
 - FOUNDATION MATERIAL SHALL BE 1 1/2" MINUS CRUSHED ROCK OR OTHER AGGREGATE AS APPROVED BY CITY ENGINEER.
 - GRIND AND OVERLAY LIMITS SHALL EXTEND A MINIMUM OF 10' PAST THE END OF TRENCH AREAS.
 - SEAL ALL FINAL PATCHING AND PAVING SEAMS WITH LIQUID ASPHALT, SQUEEGEE OR MOP THE SEALER. COVER WITH DRY SAND.

**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
TRENCH SECTION**

3-29-2021 NO SCALE **W-3**

REV DATE APPROVED

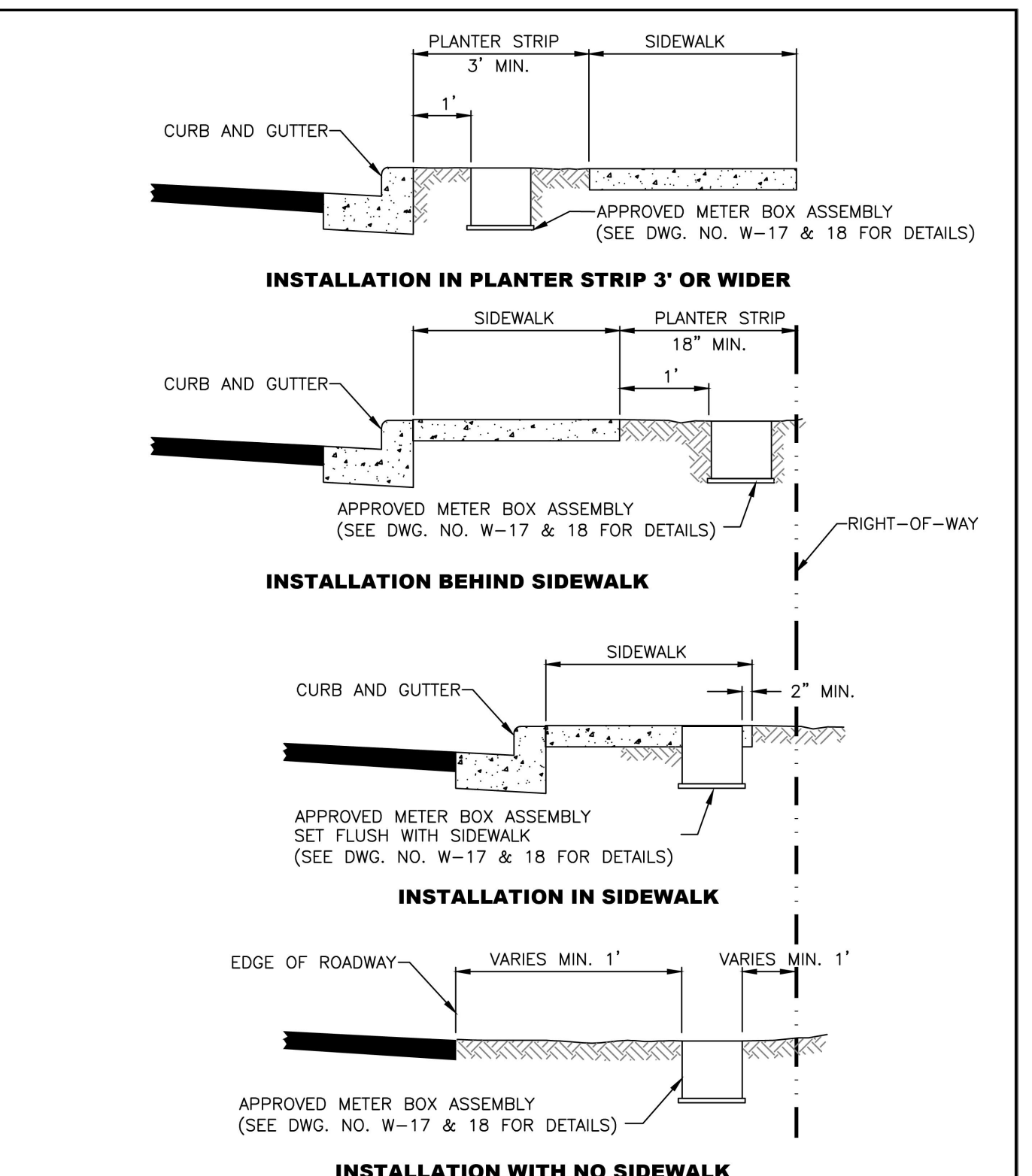


- NOTES**
- WATER SERVICES SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT DATED 01/04/2014.
 - MINIMUM DISTANCE BETWEEN CORP STOPS SHALL BE 18" MINIMUM DISTANCE BETWEEN TAPS, BETWEEN CORP STOP AND PIPE ENDS SHALL BE 24", ALL HORIZONTALLY STAGGERED.
 - PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.
 - UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.
 - WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DD SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.
 - SERVICE LINE SHALL BE PERPENDICULAR TO THE WATER MAIN AND STRAIGHT TO WATER METER, UNLESS OTHERWISE APPROVED BY CITY ENGINEER. PROVIDE WINDING SLACK IN THE SERVICE LINE BETWEEN THE MAIN AND WATER METER.
 - WATER METER SUPPLIED BY CITY.
 - ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.
 - NO SERVICE CONNECTIONS BETWEEN BLOW-OFF AND END OF MAIN.

**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
2" WATER METER INSTALLATION**

02-05-2021 NO SCALE **W-14A**

REV DATE APPROVED



**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
WATER METER PLACEMENT**

3-20-2006 NO SCALE **W-16**

REV DATE APPROVED

POST CONSTRUCTION SOIL QUALITY AND DEPTH NOTES

- SOIL RETENTION**
RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
- SOIL QUALITY**
ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
- A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A pH FROM 6.0 TO 8.0 OR MATCHING THE pH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF THE INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCAFFED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYER, WHERE FEASIBLE.
 - MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
 - USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS: THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BMP 17.30: BIORETENTION CYVILLS, SWALES, AND PLANTER BOXES (P.959 OF THE 2014 SWMMWW), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65% AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE COTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS; IN WAC 173-350-220.
 - IMPLEMENTATION OPTIONS THE SOIL QUALITY DESIGN GUIDELINES LISTED CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
 - LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
 - AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF SOIL AND AMENDMENT.
 - STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
 - IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

DATE: 10/01/2020
DESIGNED: FLAVIO BANOTTI
DRAWN: CHUCK FEMLING
APPROVED: MICHAEL MOODY, PE
PROJECT MANAGER: MICHAEL MOODY, PE

MI TREEHOUSE LLC
PO BOX 261
MEDINA, WA 98040
12100 NE 195th St, Suite 300, Bothell, Washington 98011 425.885.7877

CORE DESIGN
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

DATE: OCTOBER 2020
DESIGNED: FLAVIO BANOTTI
DRAWN: CHUCK FEMLING
APPROVED: MICHAEL MOODY, PE
PROJECT MANAGER: MICHAEL MOODY, PE

UNDERGROUND LOCATOR SERVICE
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811

UTILITY CONFLICT NOTE:
CAUTION:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POTHOLES THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT CORE DESIGN, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

SHEET 4 OF 8
PROJECT NUMBER 18039