

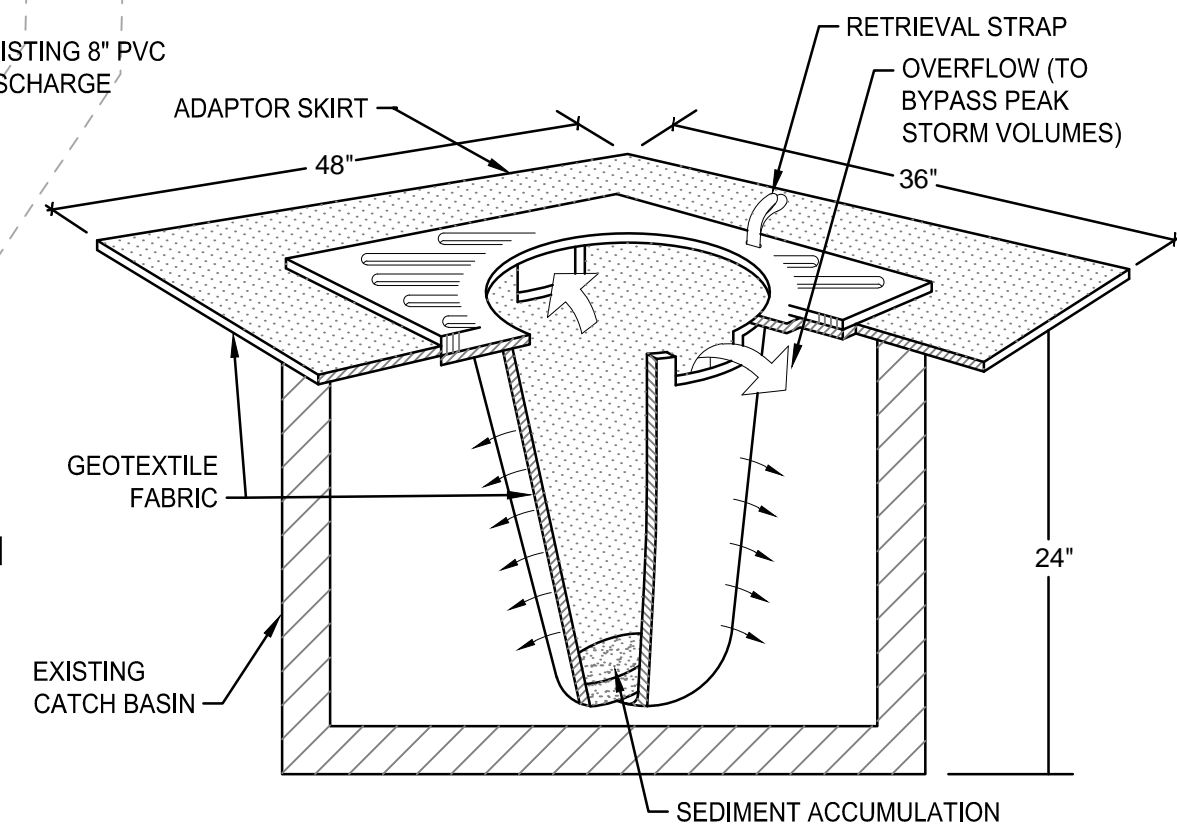
LEGEND

- RIGHT-OF-WAY / PROPERTY LINE
- PROPOSED PROPERTY LINE
- (CL) CLEARING / PROJECT LIMITS
- [Pattern] REMOVE EXISTING CONCRETE
- [Pattern] REMOVE EXISTING ASPHALT
- [Pattern] REMOVE EXISTING GRAVEL
- (SF) SILT FENCE
- (IP) INLET PROTECTION
- (SL) SAWCUT LINE
- [Symbol] REMOVE EXISTING UTILITY
- [Symbol] REMOVE EXISTING TREE
- [Symbol] EXISTING TREE TO REMAIN
- 100- EXISTING MAJOR CONTOURS
- 101- EXISTING MINOR CONTOURS
- 101- PROPOSED MINOR CONTOUR
- 100- PROPOSED MAJOR CONTOUR

KEYNOTES

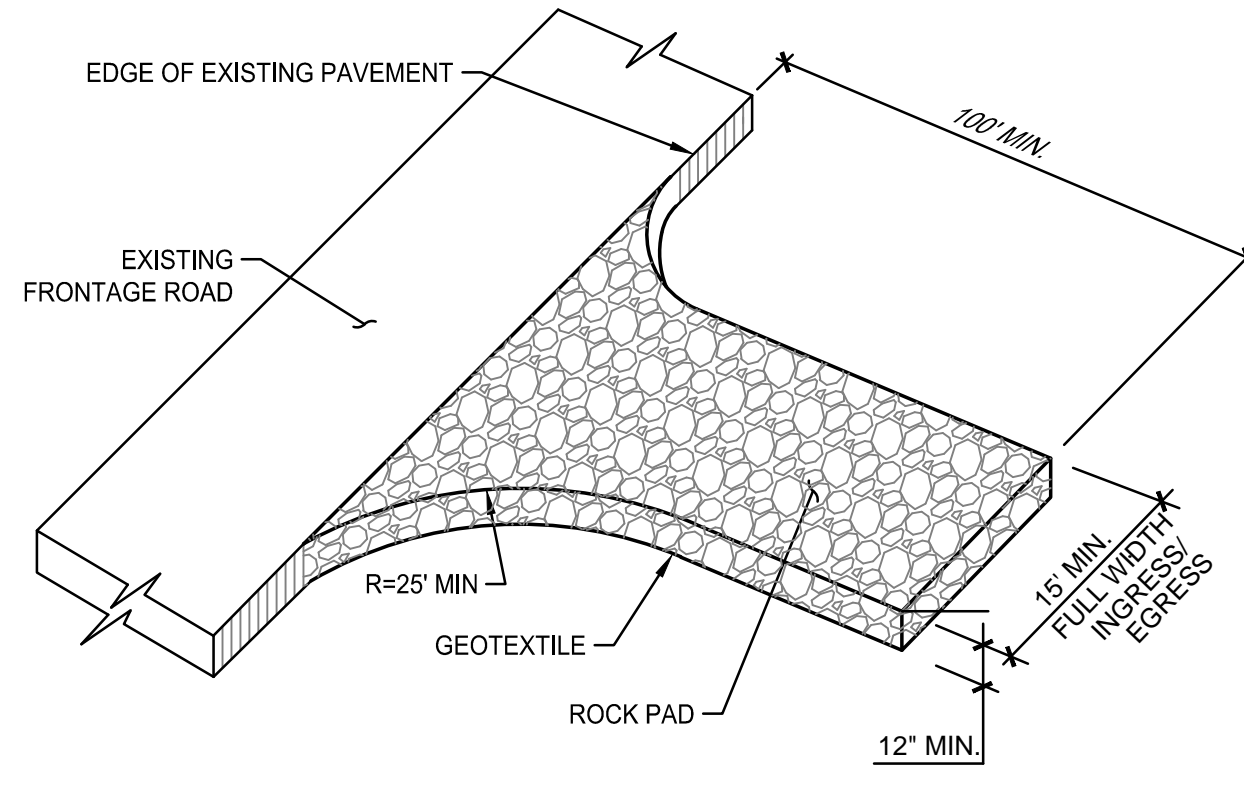
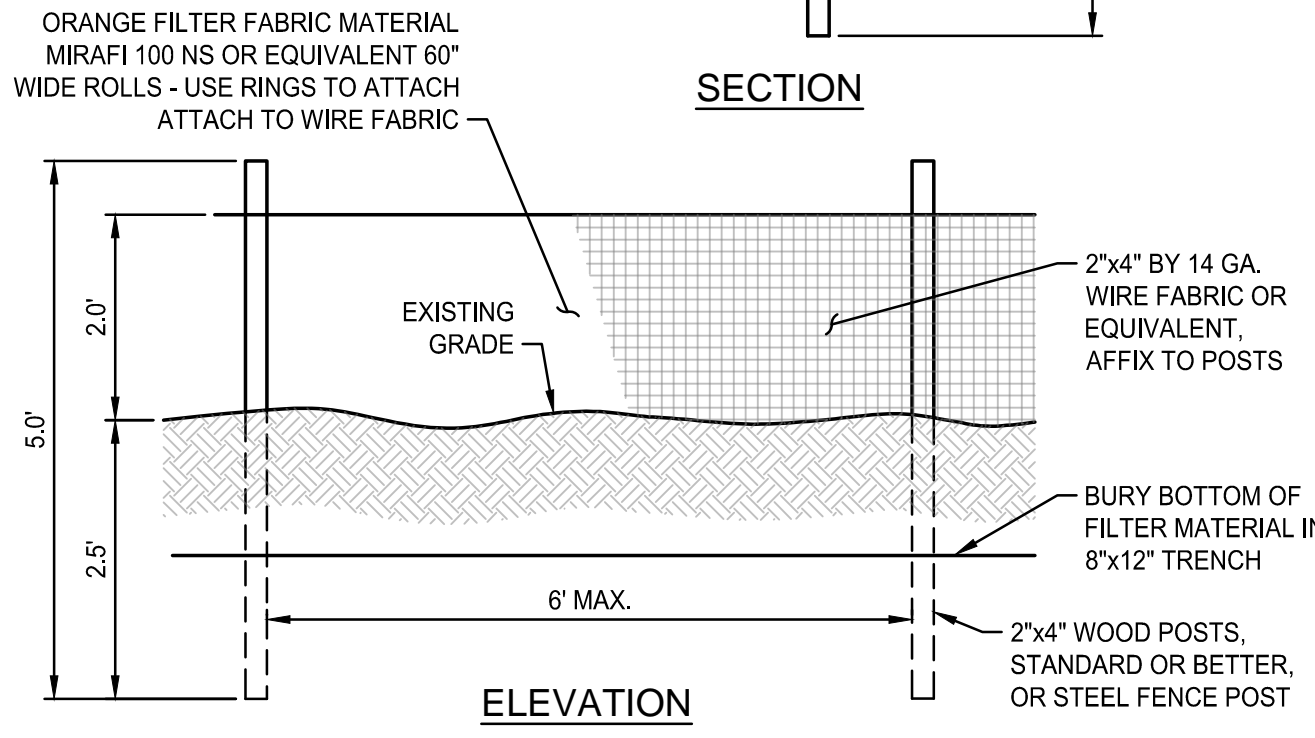
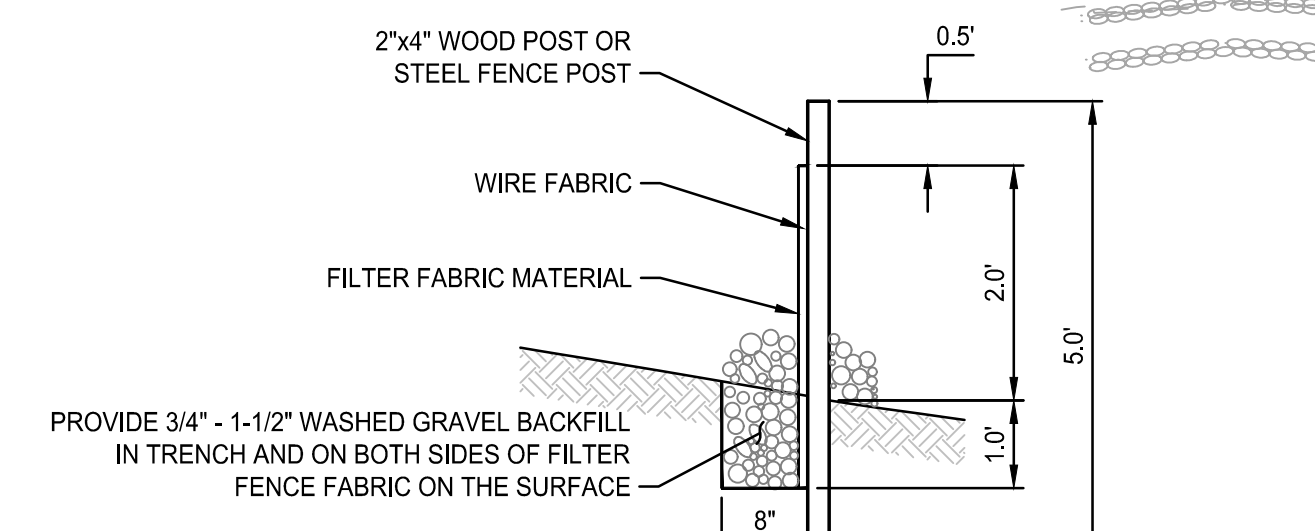
- 1 REMOVE EXISTING CEMENT CONCRETE.
- 2 REMOVE EXISTING UTILITY
- 3 REMOVE EXISTING ROCKERY PATH
- 4 REMOVE EXISTING GATE AND APPURTENANCES
- 5 PRESERVE/PROTECT EXISTING WALL
- 6 PORTION OF HOUSE REMOVED UNDER SEPARATE PERMIT (2405-053)
- 7 PORTION OF TRELIS/ROOF REMOVED UNDER SEPARATE PERMIT (2405-053)
- 8 UTILIZE EXISTING DRIVEWAY AS CONSTRUCTION ENTRANCE OR PROVIDE CONSTRUCTION EXIT PER DETAIL

EXISTING SANITARY SEWER BASED ON RECORDS PROVIDED BY CITY OF MERCER ISLAND (TYP)



- NOTES:
- 1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.
 - 2. INSTALL INLET PROTECTION IN ALL NEW STORM STRUCTURES THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

- NOTES:
- 1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM SIX-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
 - 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF SIX FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30").
 - 3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT INCHES WIDE AND TWELVE INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
 - 4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR INCHES AND SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - 5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND TWENTY INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 - 6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE (S) APPLYING.
 - 7. THE TRENCH SHALL BE BACKFILL WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL.
 - 8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 - 9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - 10. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
 - 11. DO NOT DRIVE OVER OR FILL OVER FILTER FABRIC FENCE.

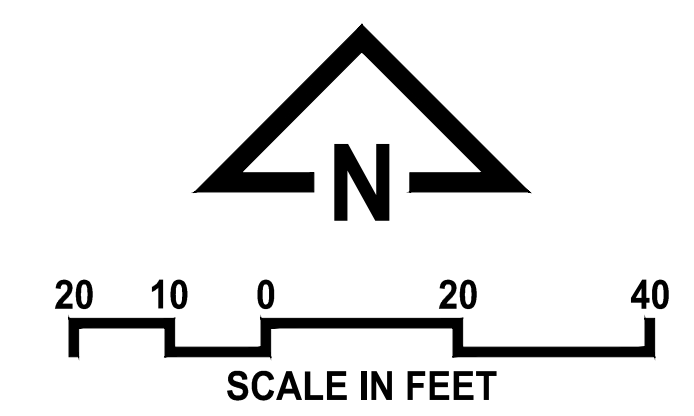


- NOTES:
- 1. ROCK PAD MATERIAL SHALL BE QUARRY SPALLS PER WSDOT STANDARD SPECIFICATION 9-13.6 AND MAY BE TOP-DRESSED WITH 1"-3" ROCK.
 - 2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 100 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
 - 3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
 - 4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.
 - 5. GEOTEXTILE SHALL MEET THE FOLLOWING: GRAB TENSILE STRENGTH 200 PSI MIN, GRAB TENSILE LONGITUDINAL 30% MAX, MULLEN BURST STRENGTH 400 PSI MIN, AOS 2-45 (U.S. STANDARD SIEVE).
 - 6. THE ROCK PAD SHALL BE REMOVED UPON COMPLETION OF ALL CONSTRUCTION.

3 INLET PROTECTION
NOT TO SCALE

2 CONSTRUCTION ENTRANCE
NOT TO SCALE

1 SILT FENCE
NOT TO SCALE



BUTTERWORTH SHORT PLAT
5330 BUTTERWORTH RD
MERCER ISLAND, WA 98040

PRELIMINARY
SHORT PLAT

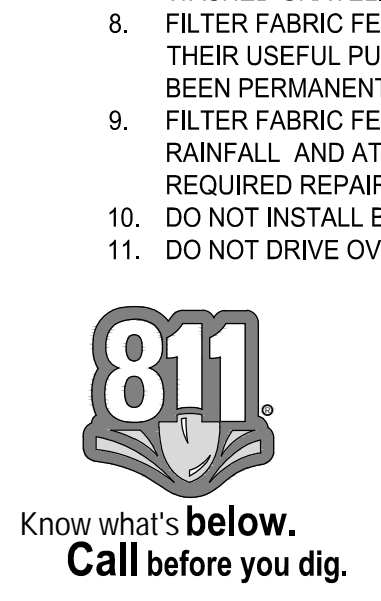
ETHOS CIVIL
Engineering, Entitlement, Project Management
ethoscivil.com info@ethoscivil.com 253.414.1989



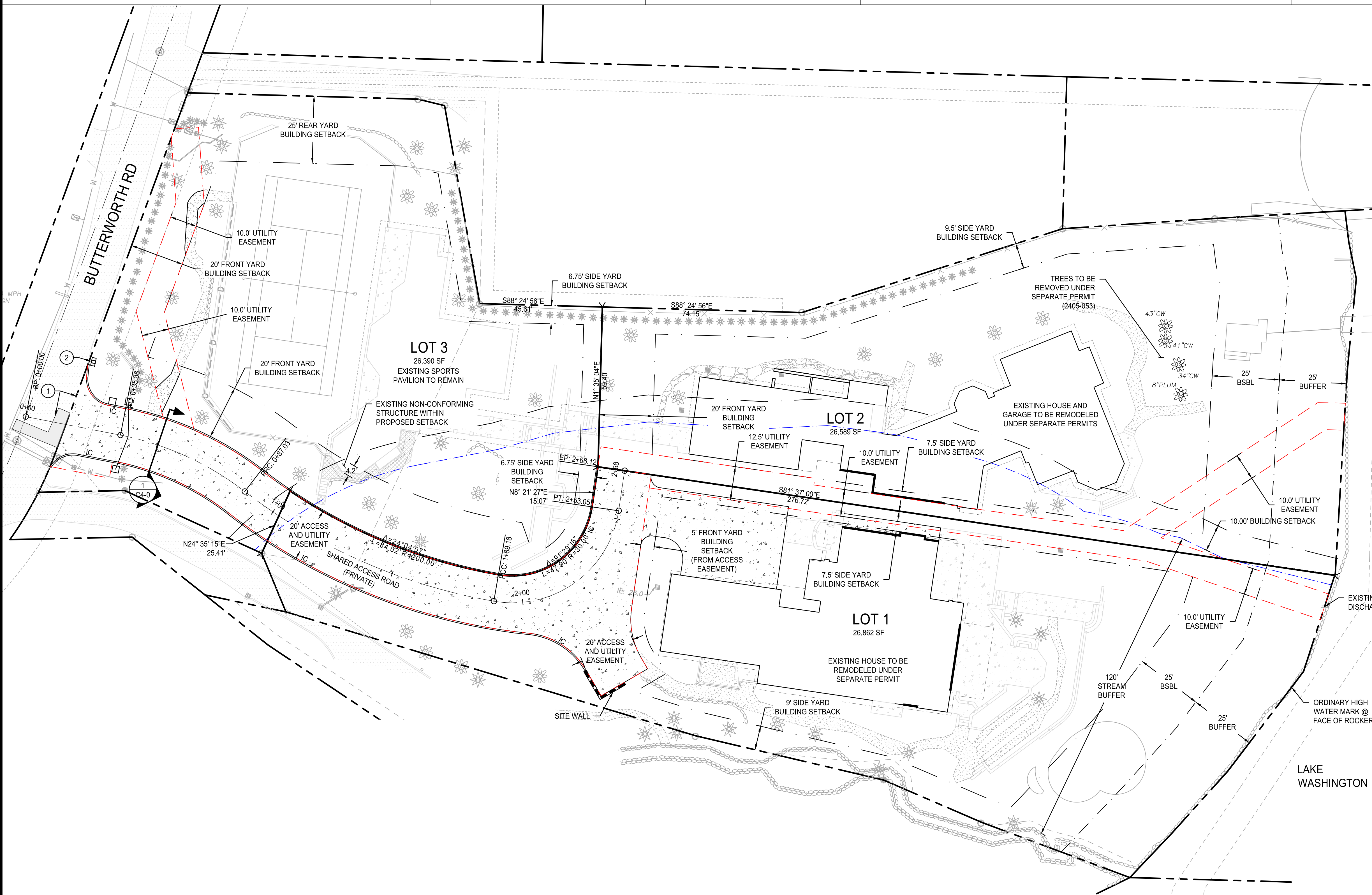
DESIGNED	JTB	
CHECKED	ABE	
DRAWN	EMW	
CHECKED	ABE	
#	DATE	DESCRIPTION

24004
07/10/2024
TESC AND DEMO PLAN

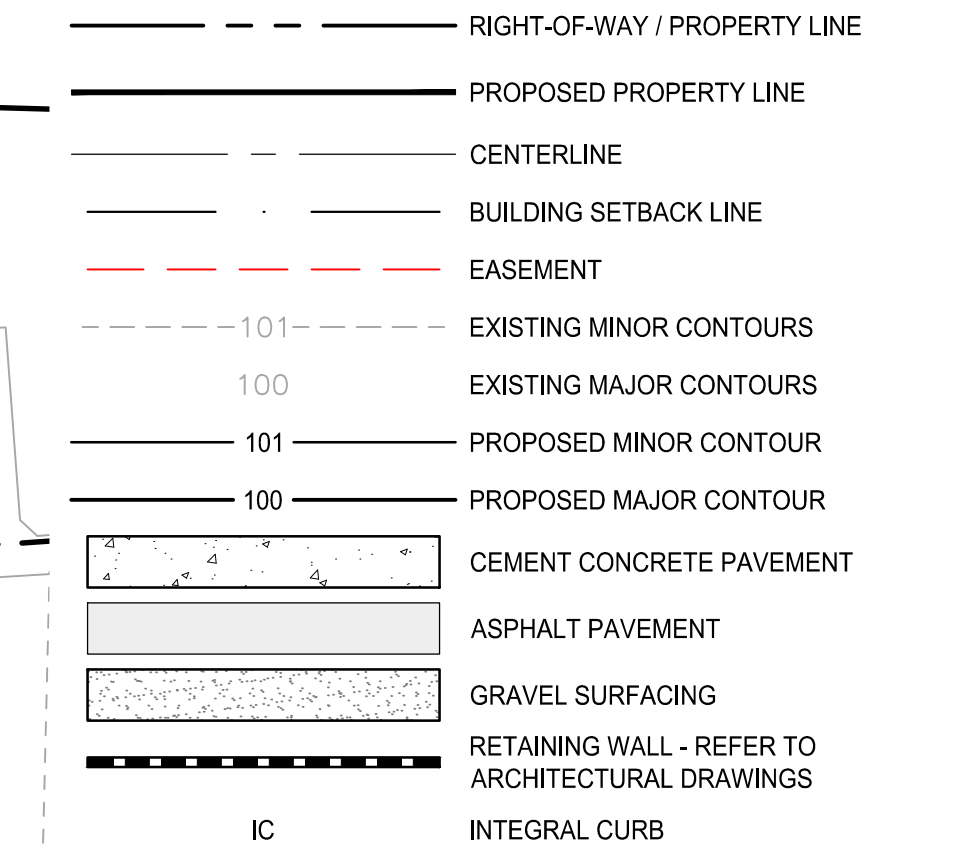
C1-0



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LEGEND



KEYNOTES

- 1 MATCH EXISTING
- 2 PROVIDE MAILBOX INSTALLATION FOR TWO MAILBOXES

BASIS OF BEARINGS

THE CENTERLINE OF BUTTERWORTH ROAD, BEING NORTH 20°10'45" EAST PER THE PLAT OF TONJA ESTATES, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 77 OF PLATS, PAGE 64, IN KING COUNTY, WASHINGTON.

ELEVATION DATUM

VERTICAL DATUM FOR THIS SURVEY IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

LAKE WASHINGTON WATER SURFACE ELEVATION PER U.S. ARMY CORPS OF ENGINEERS, SEATTLE DISTRICT, WATER MANAGEMENT. ELEVATION = 17.17 NAVD 88 ON MARCH 1, 2024 AT 10:30 A.M.

EARTHWORK QUANTITIES

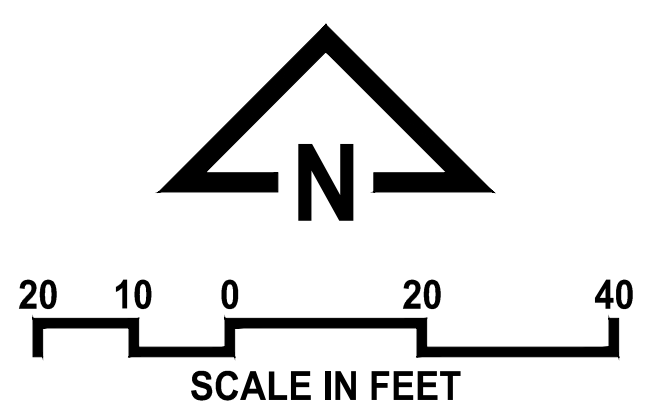
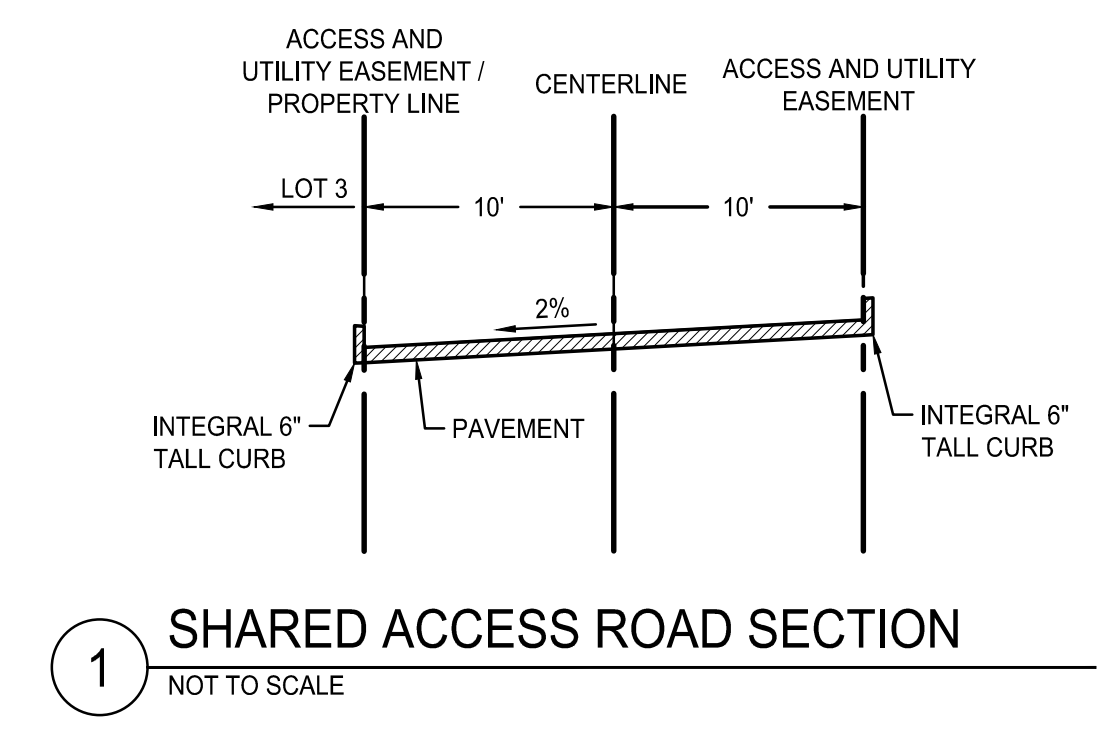
THE EARTHWORK QUANTITIES SHOWN BELOW ARE ESTIMATES ONLY. DO NOT USE THEM FOR BIDDING PURPOSES. THE QUANTITIES DO NOT ACCOUNT FOR STRIPPING, COMPACTION, CUT OR FILL ADJUSTMENT FACTORS, PAVEMENT SECTIONS, UTILITY TRENCHING, OR OTHER FACTORS THAT AFFECT EARTHWORK QUANTITIES.

CUT: 100 CY
 FILL: 89.25 CY
 NET: 200 CY (IMPORTED FILL)

BUTTERWORTH SHORT PLAT

5330 BUTTERWORTH RD
 MERCER ISLAND, WA 98040

PRELIMINARY SHORT PLAT

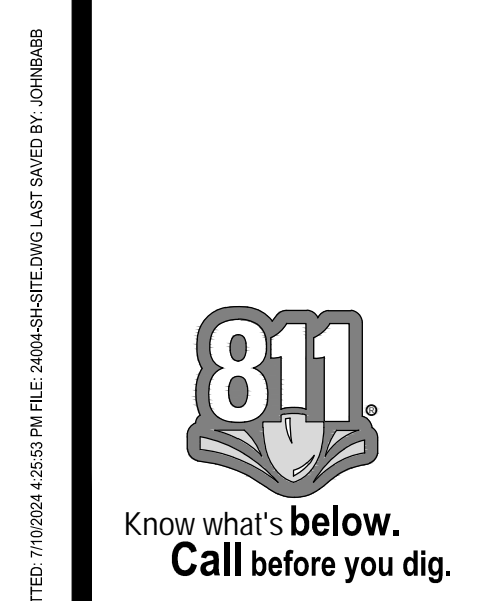


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 CHECKED: ABE
 DRAWN: EMW
 CHECKED: ABE

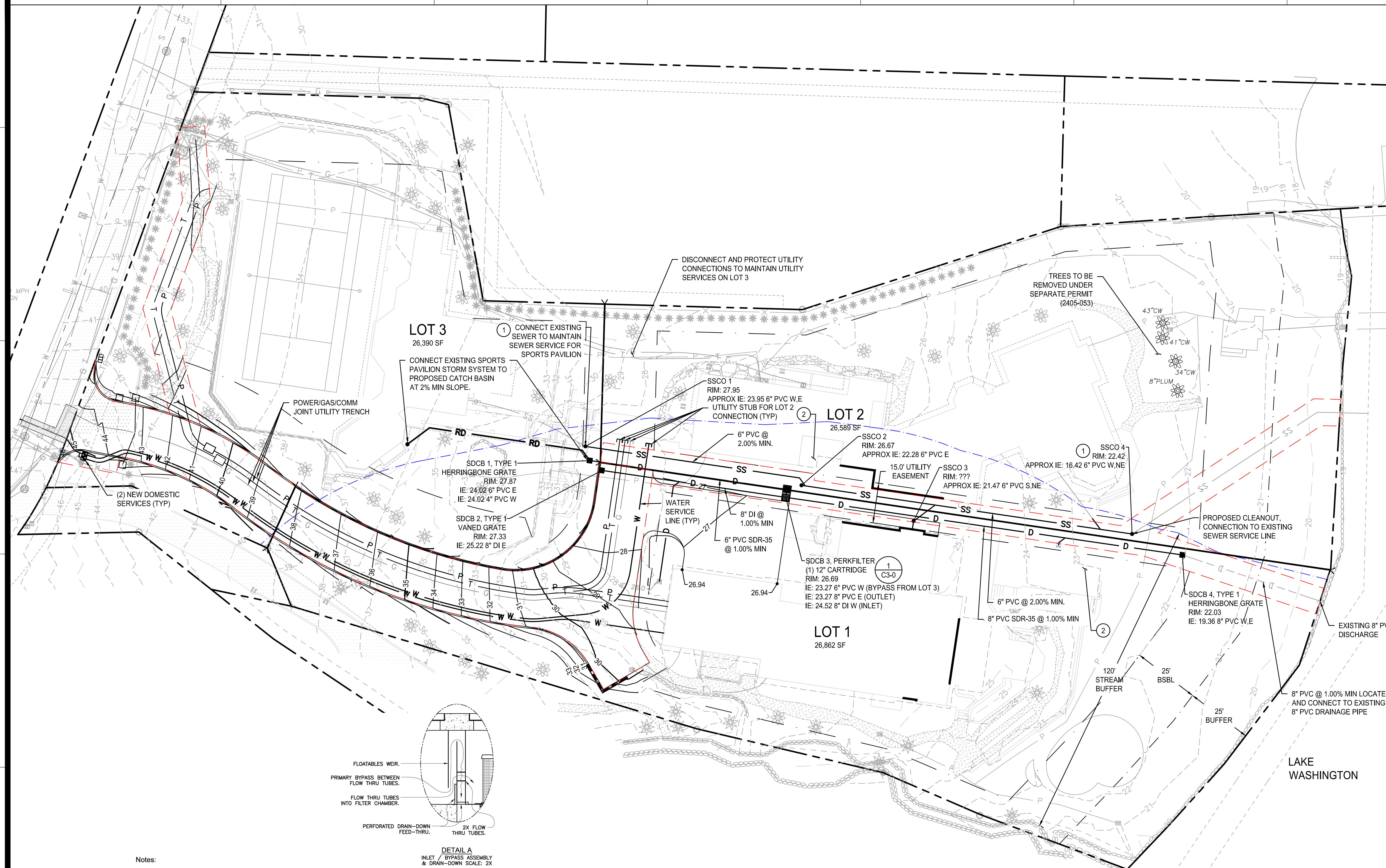
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24004
 07/10/2024
 SITE PLAN

C2-0



PLOTTED: 7/10/2024 2:55:15 PM FILE: 24004-SITE-PLAN.DWG LAST SAVED BY: JANNABR



LEGEND

- RIGHT-OF-WAY/PROPERTY LINE
- PROPOSED PROPERTY LINE
- CENTERLINE
- EASEMENT
- CATCH BASIN TYPE 1 (2/ C4-0)
- STORM DRAINAGE PIPING (2/ C3-0)
- WATER PIPING
- SANITARY SEWER LINE (2/ C3-0)
- GAS LINE (2/ C3-0)
- UNDERGROUND POWER LINE (2/ C3-0)
- UNDERGROUND COMMUNICATION LINE (2/ C3-0)
- WATER METER (3/ C4-0)
- CLEANOUT (4/ C4-0)

KEYNOTES

- ① POT HOLE TO LOCATE EXACT LOCATION AND DEPTH OF EXISTING SANITARY SEWER LINE.
- ② LOCATE AND CONNECT EXISTING ROOF DRAINAGE SYSTEM TO PROPOSED STORM DRAIN.

BUTTERWORTH SHORT PLAT
 5330 BUTTERWORTH RD
 MERCER ISLAND, WA 98040

PRELIMINARY SHORT PLAT

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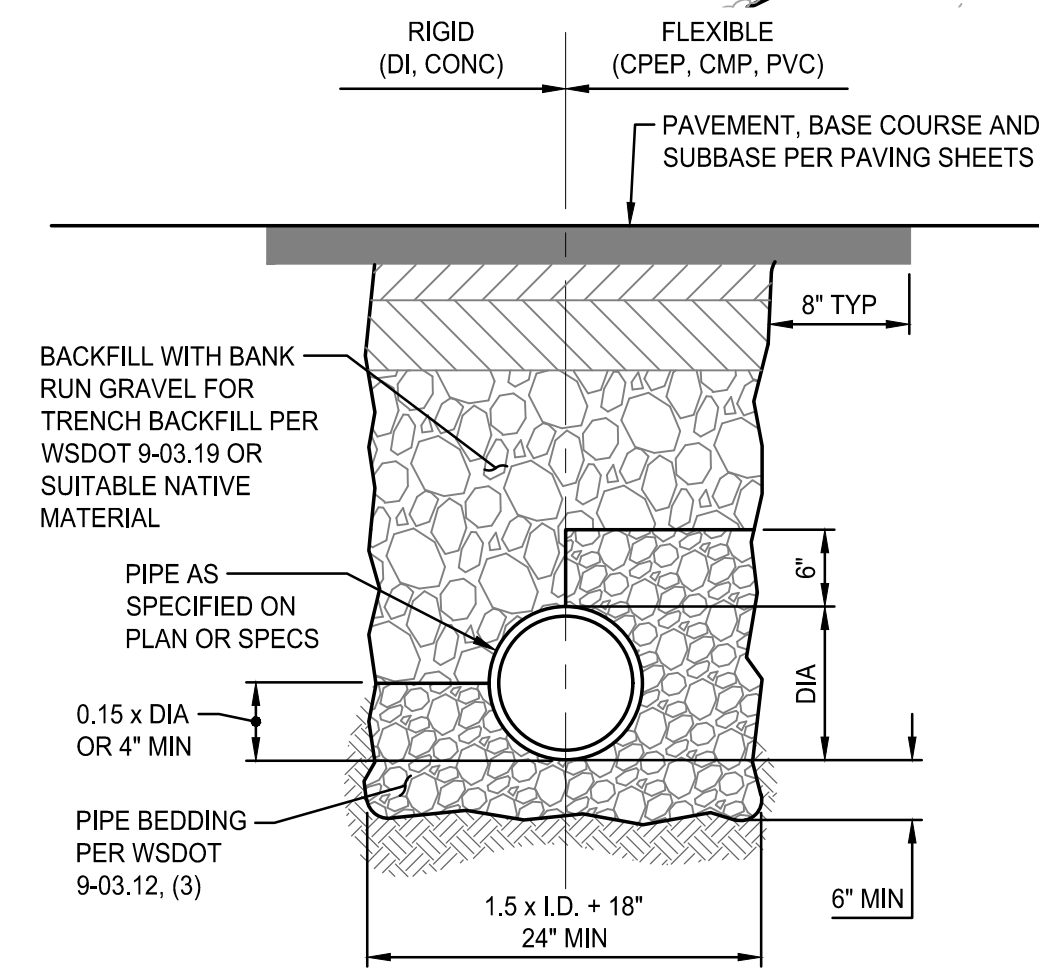
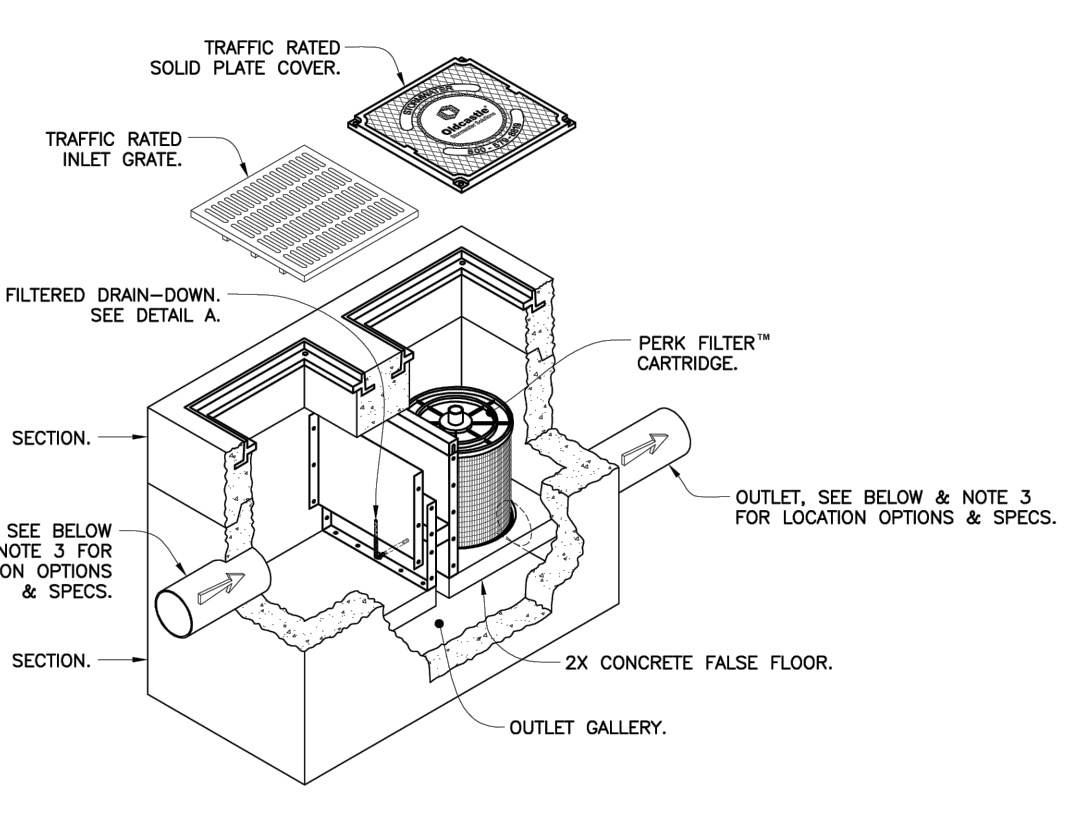
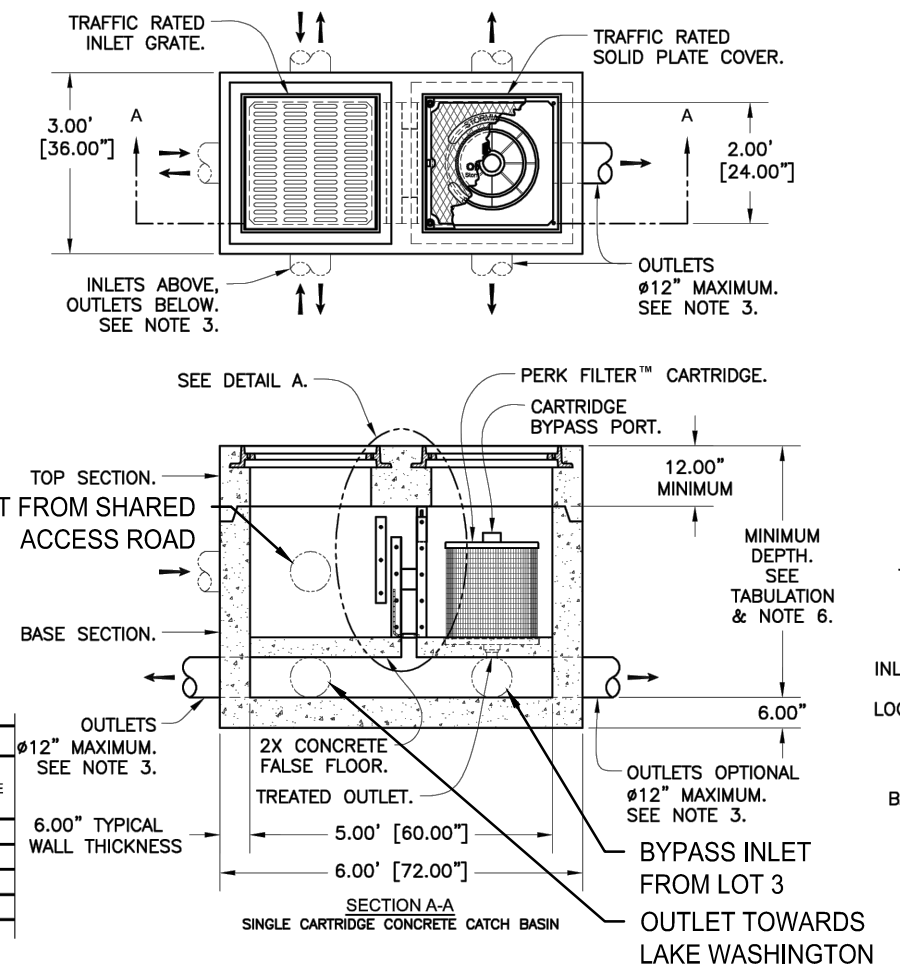
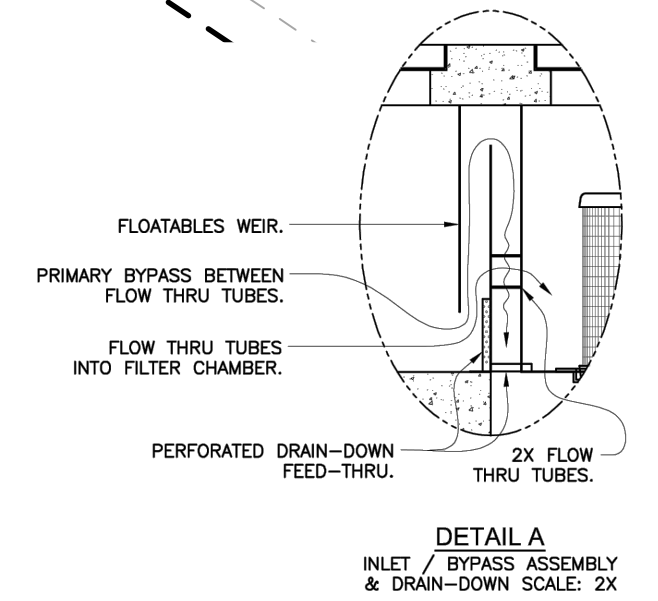
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24004
 07/10/2024

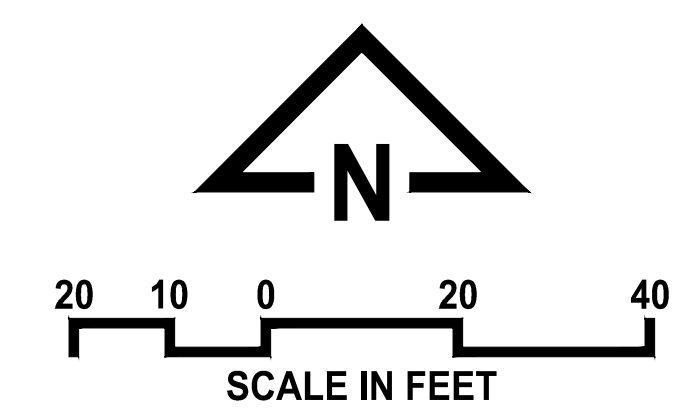
UTILITY PLAN

C3-0

- Notes:
1. Precast concrete structure shall be manufactured in accordance with ASTM Designation C857 and C858.
 2. Perk Filter™ Catch basin shall be supplied with traffic rated (H20) bicycle-proof grates and solid plate cover.
 3. Inlet pipe(s) may enter device on three sides of the inlet chamber. Outlet pipe(s) may exit on all four sides. All pipe is Ø 12" maximum.
 4. Inlet chamber shall be supplied with a drain-down device designed to remove standing water between storm events.
 5. Perk Filter™ cartridge shall be maintained in accordance with manufacturer recommendations.
 6. For depths less than the specified minimum contact Oldcastle® Stormwater Solutions for engineering assistance.



- NOTES:
1. BACKFILL MATERIAL SHALL NOT HAVE ROCKS OR PARTICLES LARGER THAN 1" WITHIN 12" OF THE PIPE. BACKFILL MATERIAL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST (ASTM D-1557).
 2. CONSTRUCT ALL STORM AND ROOF DRAINS IN CONFORMANCE WITH THIS DETAIL UNLESS NOTED OTHERWISE ON THE PLANS.
 3. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
 4. IF ORGANIC MATERIAL IS ENCOUNTERED DURING UTILITY EXCAVATION, OVEREXCAVATE TRENCH TO INCREASE PIPE BEDDING DEPTH TO 18" OR MORE AS REQUIRED TO COMPACT BEDDING TO FIRM AND UNYIELDING CONDITION.

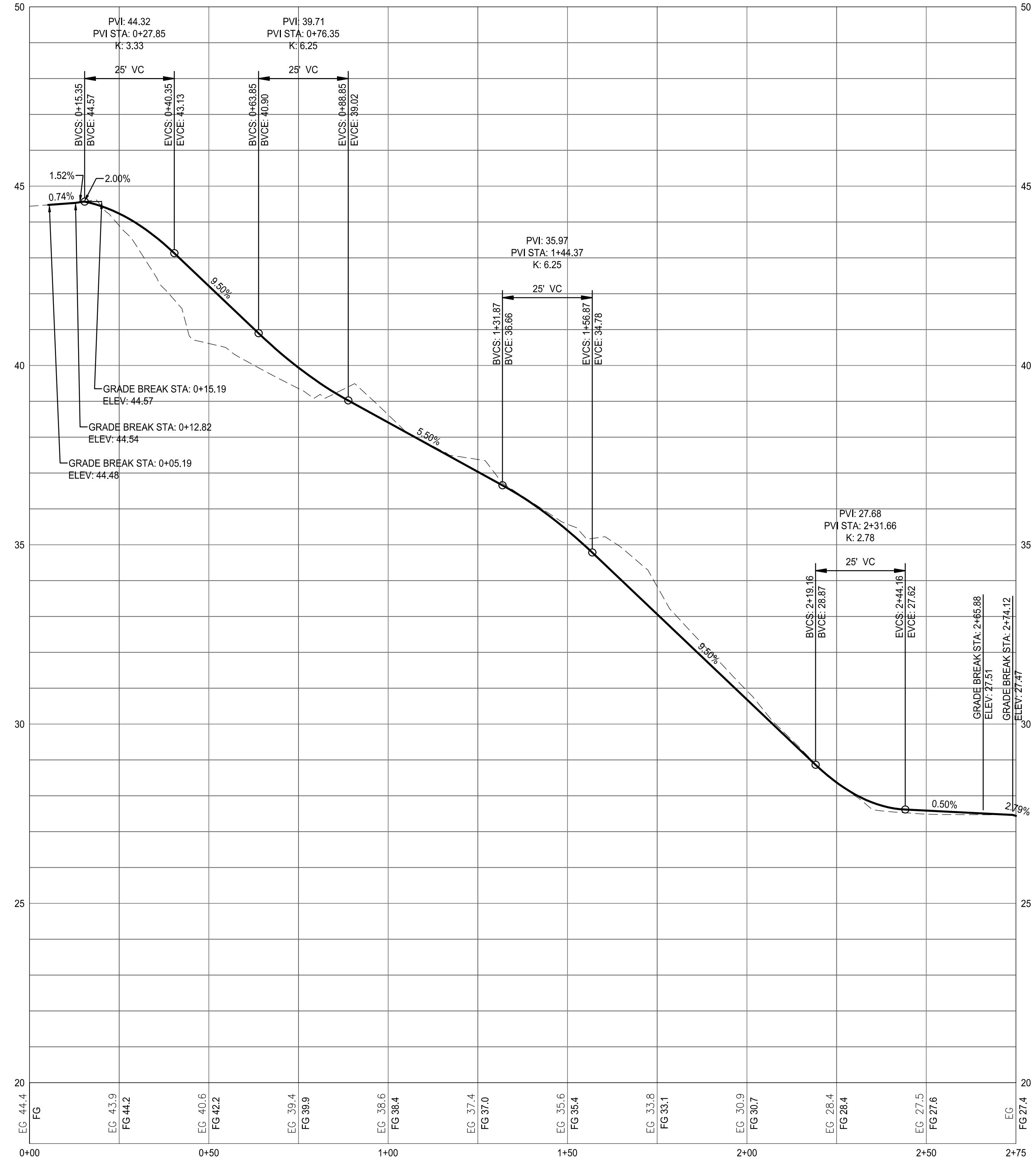


① OLDCASTLE PERKFILTER SINGLE CARTRIDGE CONCRETE CATCH BASIN
 NOT TO SCALE

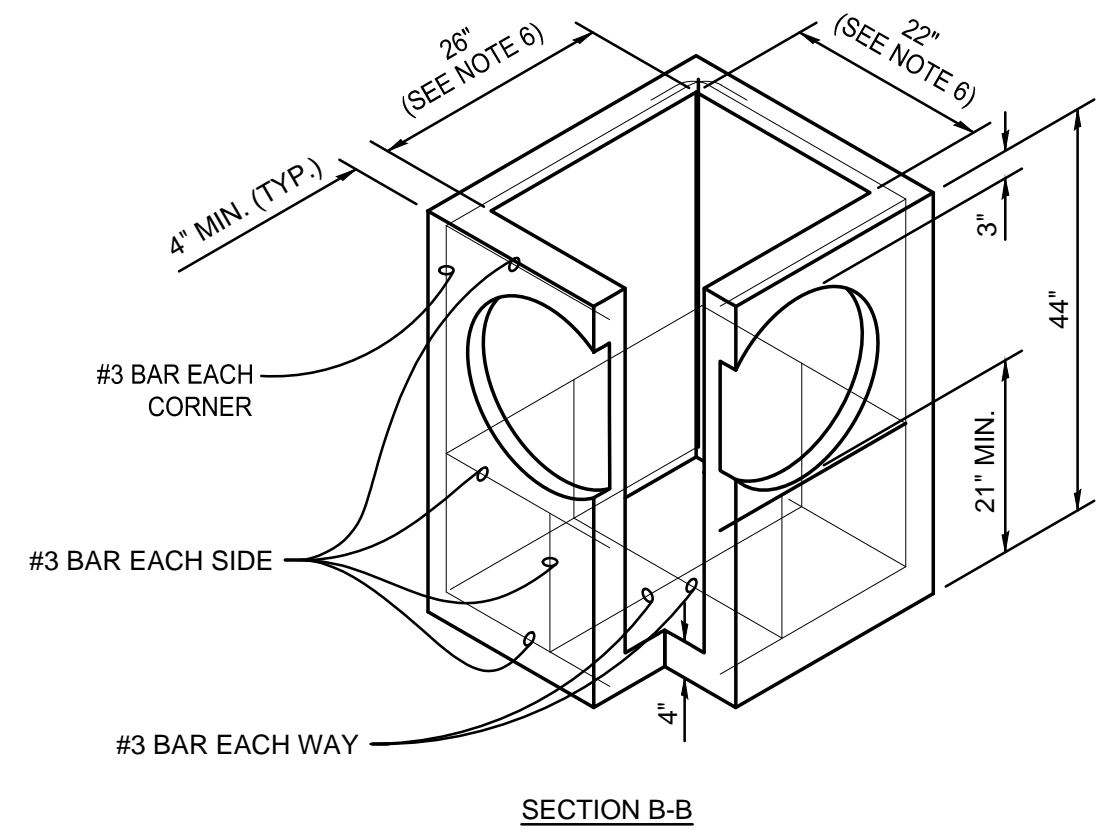
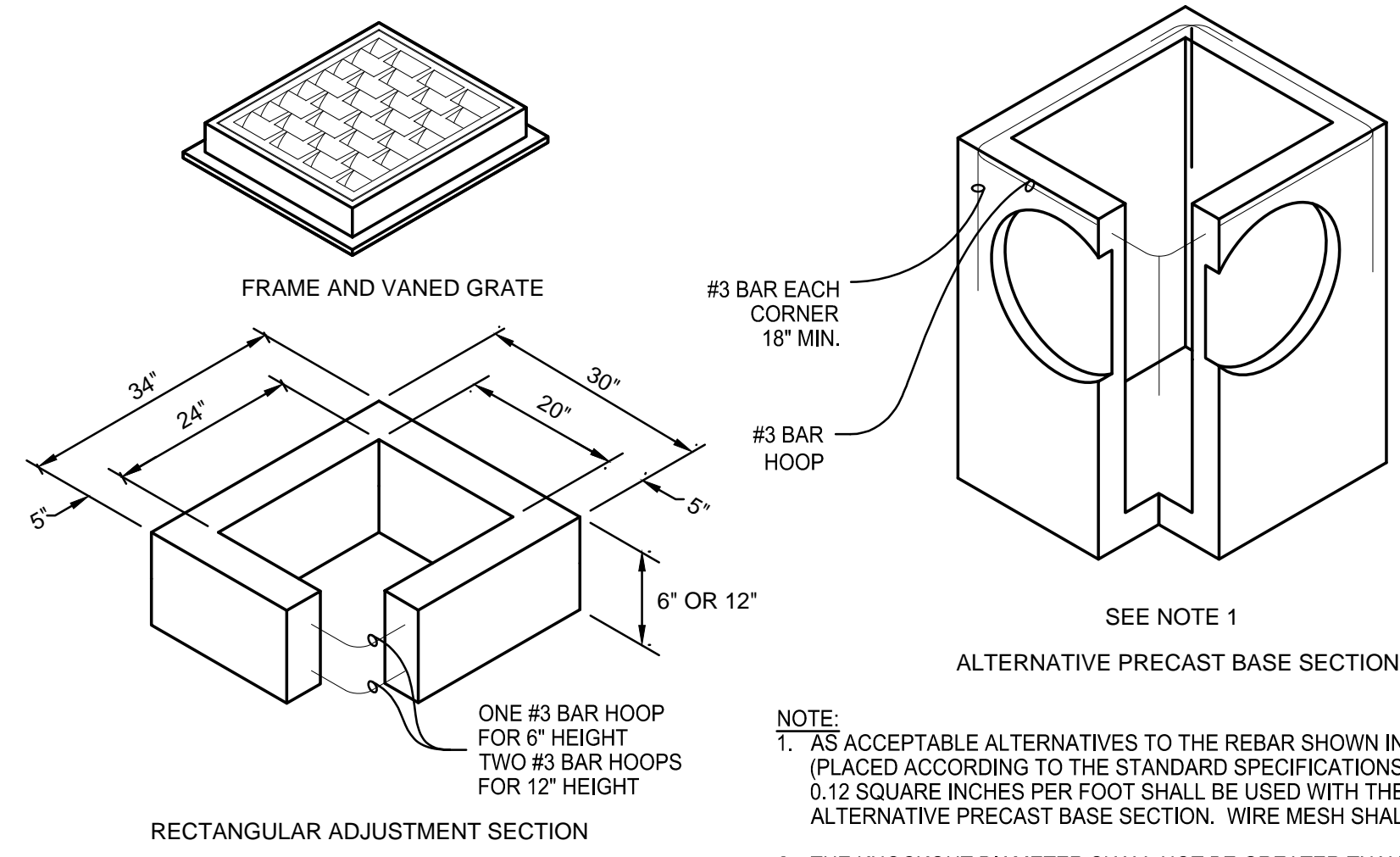
② TRENCH SECTION
 NOT TO SCALE

811
 Know what's below.
 Call before you dig.

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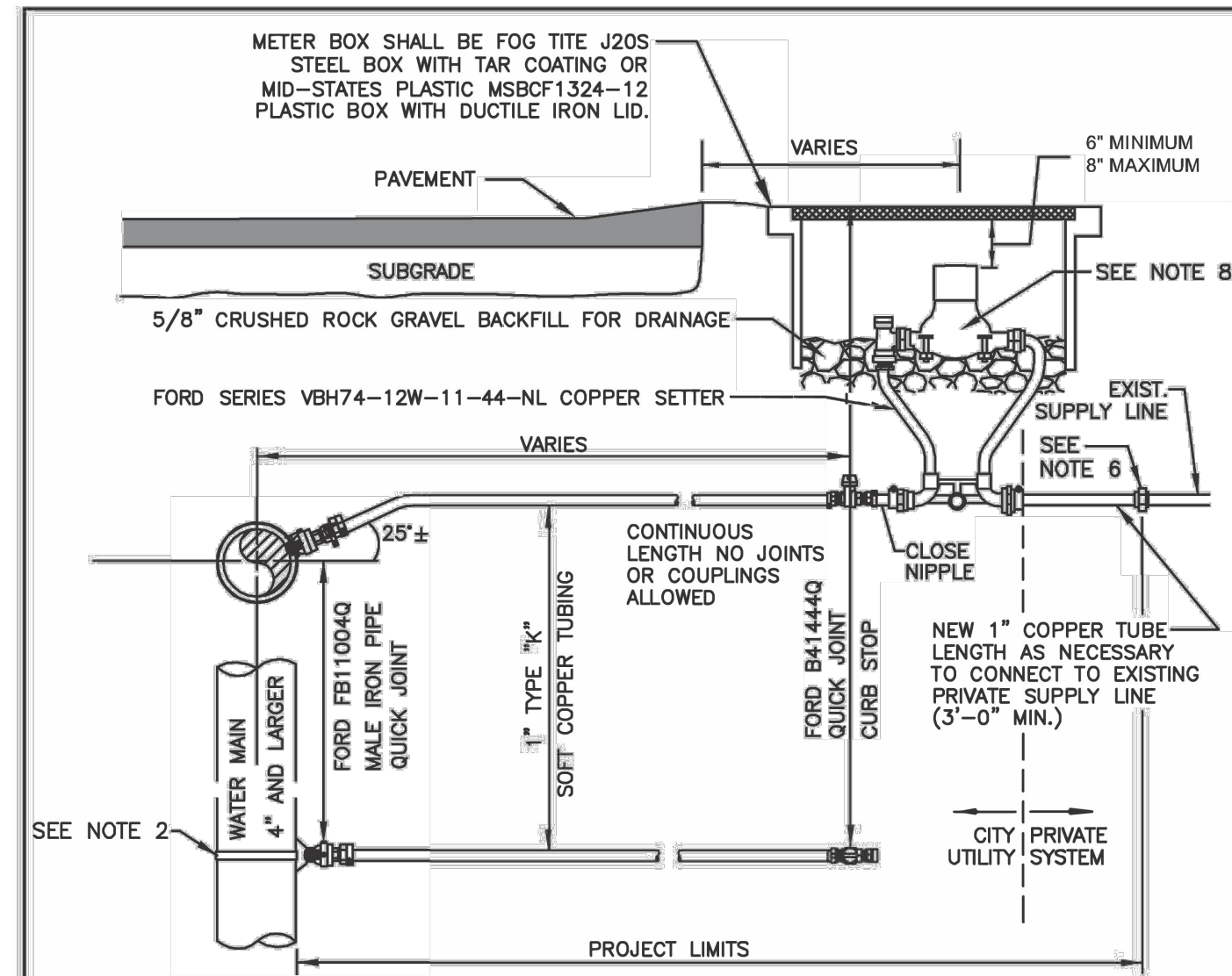
1 SHARED ACCESS ROAD PROFILE
SCALE: 1"=20' HORIZ. 1"=2' VERT



PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
*CPSSP (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

*CORRUGATED POLYETHYLENE STORM SEWER PIPE

2 CATCH BASIN - TYPE 1
NOT TO SCALE



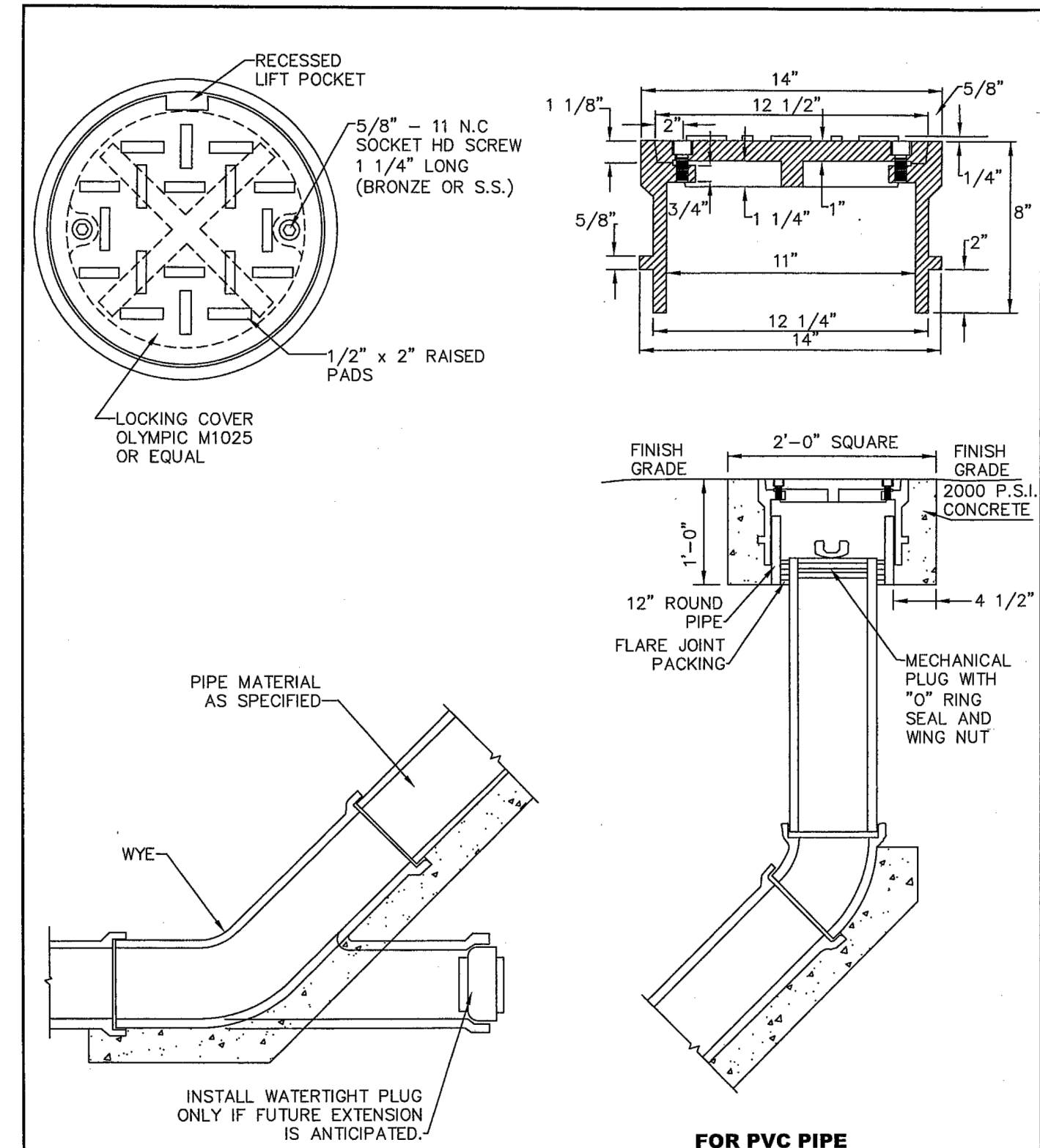
- NOTES**
1. WATER SERVICES SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT DATED 01/04/2014.
 2. ON EXISTING WATER MAINS USE NYLON COATED D.I. SADDLE WITH STAINLESS STEEL DOUBLE STRAPS, ROMAC 202NS, OR APPROVED EQUAL.
 3. MINIMUM DISTANCE BETWEEN CORP STOPS SHALL BE 18". MINIMUM DISTANCE BETWEEN TAPS, BETWEEN CORP STOP AND PIPE ENDS SHALL BE 24". ALL HORIZONALLY STAGGERED.
 4. PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.
 5. UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.
 6. WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DB SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.
 7. 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.
 8. WATER METER SUPPLIED BY CITY.
 9. ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.
 10. NO SERVICE CONNECTIONS BETWEEN BLOW-OFF AND END OF MAIN.

CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
1" WATER METER INSTALLATION

05-02-2023 NO SCALE W-13

REV DATE APPROVED

3 1-INCH WATER METER
NOT TO SCALE



CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
CLEAN OUT DETAIL

6-5-2009 NO SCALE S-19

REV DATE APPROVED

4 CLEANOUT
NOT TO SCALE

BUTTERWORTH SHORT PLAT
5330 BUTTERWORTH RD
MERCER ISLAND, WA 98040

PRELIMINARY SHORT PLAT

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REV	DATE	DESCRIPTION

24004
07/10/2024
ROAD PROFILE AND UTILITY DETAILS

C4-0