

# **NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE**

**VOLUME 1 OF 2, NORTH MERCER PUMP  
STATION AND LIFT STATION 11  
CONTRACT NUMBER: C01339C20**

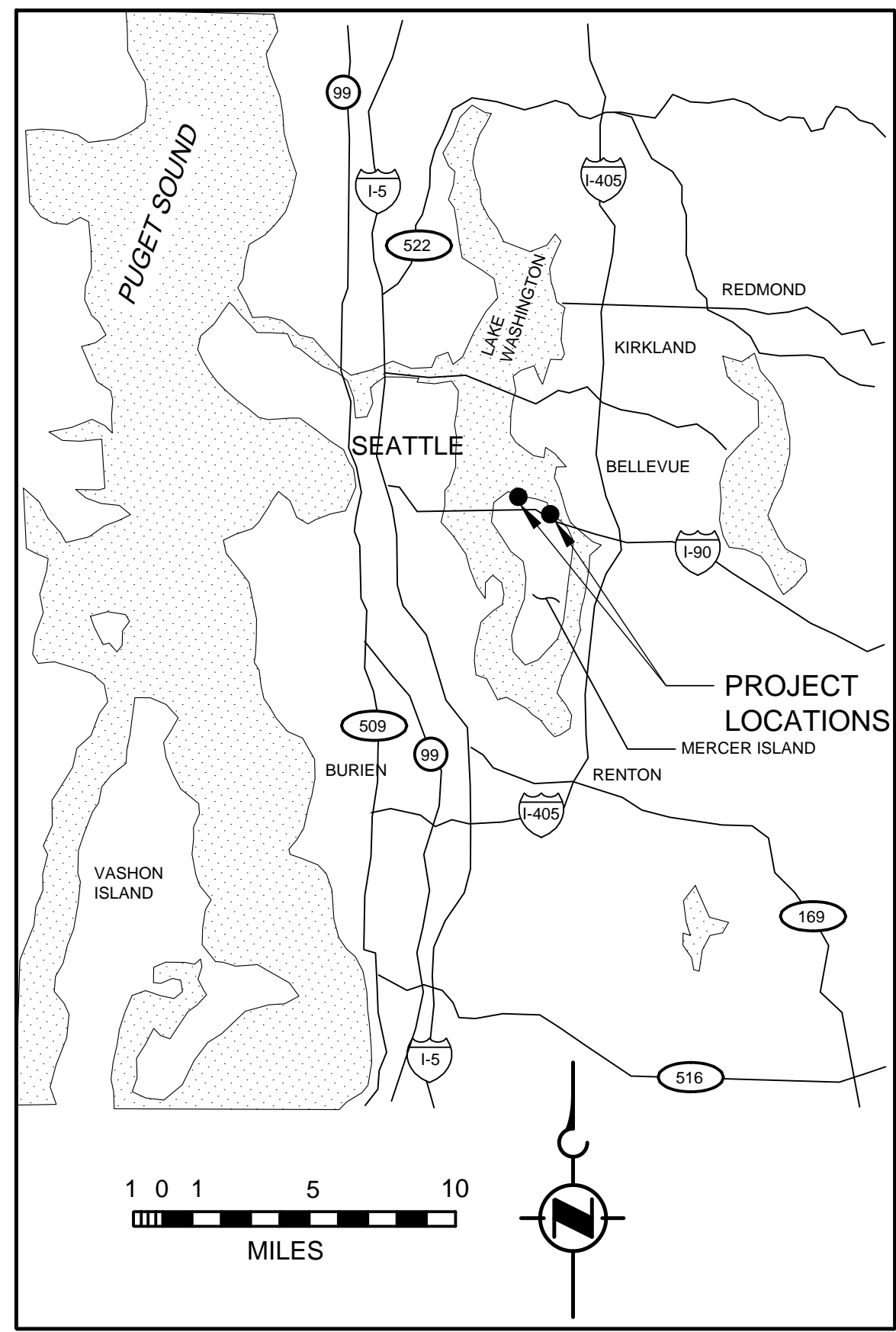
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**APPLICATION FOR CITY OF MERCER ISLAND CRITICAL AREAS LAND USE PERMIT  
PROJECT PLAN SET**

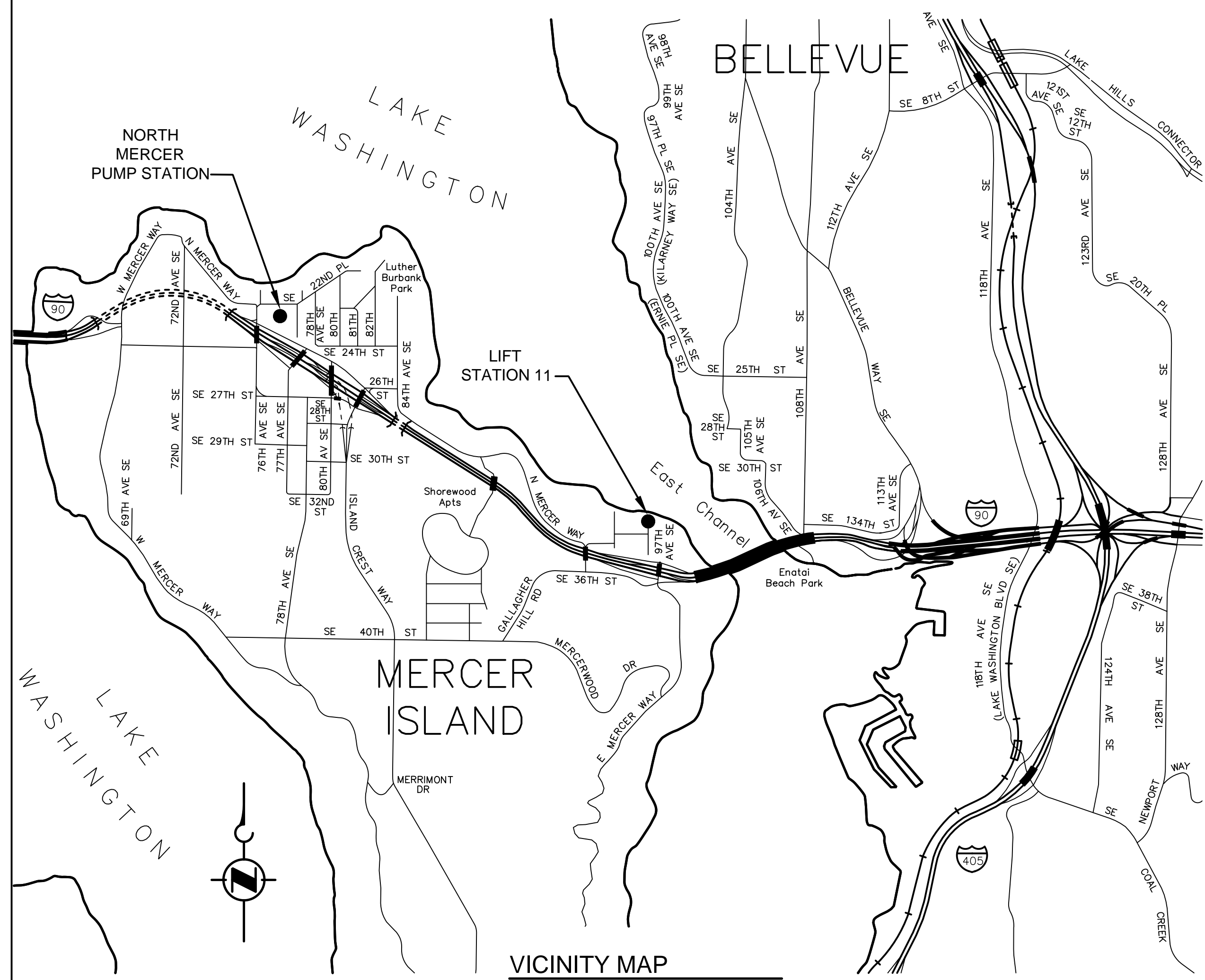
**SEPTEMBER 2019**



**KING COUNTY**  
Department of Natural Resources and Parks  
Wastewater Treatment Division



**LOCATION MAP**  
SCALE: AS SHOWN



**VICINITY MAP**  
SCALE: NONE

NORTH MERCER PUMP STATION ADDRESS: 7631 SE 22ND STREET  
MERCER ISLAND, WA 98040

LIFT STATION 11 ADDRESS: 3309 97TH AVENUE SE  
MERCER ISLAND, WA 98040

**FOR REFERENCE ONLY**

CALL TWO  
BUSINESS DAYS  
BEFORE YOU DIG  
811

BORDER FILE EDITION: K:\CADD\2012\Draw-TP-Boiler  
FILE LOCATION: C:\Projects\Seattle\12539135-12539-16001\CAD\SheetFiles\333\_E00308E13C001.dwg  
PLOT DATE: 07/20/19 12:08 PM  
PLOTTED BY: S. Yildiz, Etc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
0 REFERENCE 1"  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**LOCATION AND VICINITY MAPS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>G001</b>
SHT NO / TOTAL: 001 / 393	REV NO:

DRAWING INDEX

Table with 4 columns: SHT# DWG# DRAWING TITLE. Categories include GENERAL, DEMOLITION, TEMPORARY, LANDSCAPE, ARCHITECTURAL, CIVIL, and STRUCTURAL.

DRAWINGS NOT INCLUDED IN THE LAND USE SET HAVE BEEN SHADED RED, BUT HAVE BEEN LEFT ON THE INDEX TO PROVIDE CONTEXT FOR DRAWING CROSS-REFERENCES.

FOR REFERENCE ONLY

DRAWING NUMBERING LEGEND

- 0 GENERAL DETAILS
100 SITE
200 PUMP STATION (WET WELL/DRY WELL)
300 GENERATOR BUILDING
400 ODOR CONTROL-AIR PHASE
500 ODOR CONTROL-LIQUID PHASE
600 LIFT STATION 11
900 TEMPORARY PUMP STATION

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BORDER FILE EDITION: K:\WTD\2012\Drawings\TBL\Border... FILE LOCATION: C:\Projects\333\SheetFiles\333-E00308E\13G002.dwg

Table with 4 columns: NO, REVISION DESCRIPTION, BY, APVD, DATE



PRELIMINARY ISSUE DRAWING INFORMATION ONLY DRAFT MERCER ISLAND LAND USE SET SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE
DESIGN APPROVAL: R. BROWNE FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS WASTEWATER TREATMENT DIVISION NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS DRAWING INDEX 1

Table with 2 columns: DCN, DATE (05/02/2019), PROJECT FILE NO., DRAWING NO. (G002), SHT NO / TOTAL (002 / 393), REV NO.

DRAWING INDEX

Table with 4 main columns: SHT#, DWG#, DRAWING TITLE. Sub-sections include PROCESS, MECHANICAL, ELECTRICAL, and INSTRUMENTATION AND CONTROL. Rows list specific drawing titles like 'PUMP STATION PLUMBING SECTIONS', 'ELECTRICAL SYMBOLS & ABBREVIATIONS', 'MAIN CONTROL PANEL ELEVATION', etc.

DRAWINGS NOT INCLUDED IN THE LAND USE SET HAVE BEEN SHADED RED, BUT HAVE BEEN LEFT ON THE INDEX TO PROVIDE CONTEXT FOR DRAWING CROSS-REFERENCES.

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DRAWING NUMBERING LEGEND

- 0 GENERAL DETAILS
100 SITE
200 PUMP STATION (WET WELL/DRY WELL)
300 GENERATOR BUILDING
400 ODOR CONTROL-AIR PHASE
500 ODOR CONTROL-LIQUID PHASE
600 LIFT STATION 11
900 TEMPORARY PUMP STATION

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Metadata table with fields: DCN, DATE (05/02/2019), PROJECT FILE NO., DRAWING NO. (G003), SHT NO. / TOTAL (003 / 393), REV. NO.

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PLOTTED BY: Thomas, Bryant

Revision table with columns: NO, REVISION DESCRIPTION, BY, APVD, DATE



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MERCER ISLAND LAND USE SET
AUGUST 2019

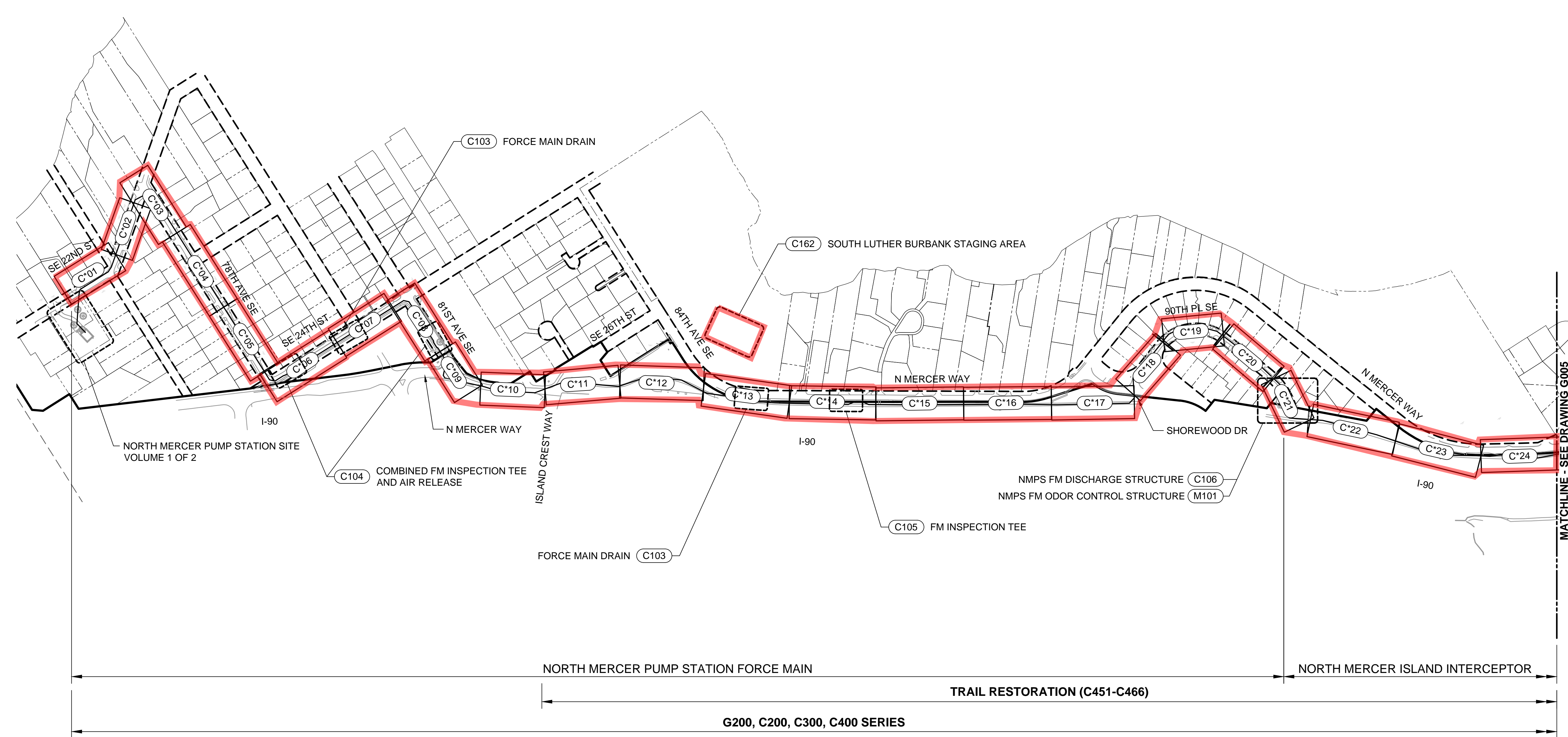
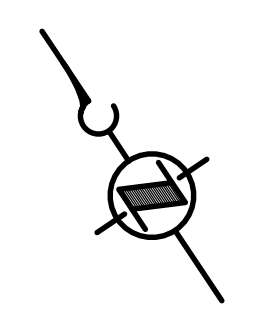


DESIGNED/DRAWN: E. SCHEY
SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE
DESIGN APPROVAL: R. BROWNE
PROJECT ACCEPTANCE: S. YILDIZ



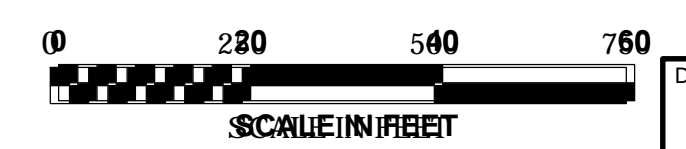
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS
DRAWING INDEX 2

 VOLUME 2 OF 2, MERCER ISLAND CONVEYANCE



MATCHLINE - SEE DRAWING G005

**FOR REFERENCE ONLY**



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 PLOTTED BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
B. NELSON  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

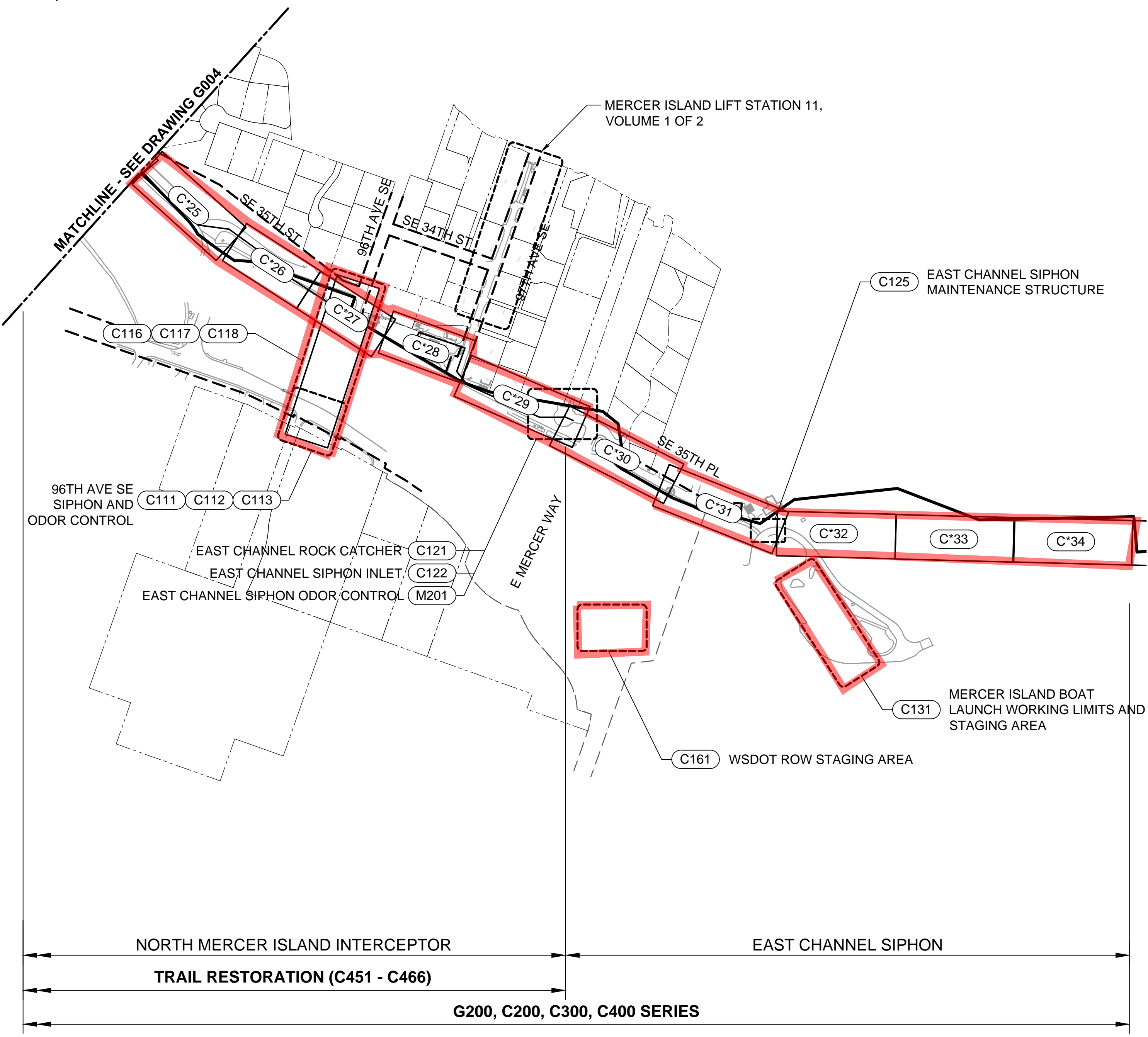
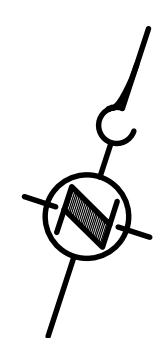
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 FACILITY NUMBER:  
 CONTRACT NO:  
C01340C20



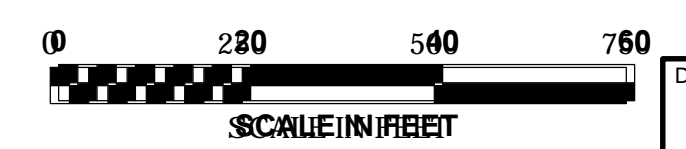
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND  
 ENATAI INTERCEPTOR UPGRADE - CONVEYANCE IMPROVEMENTS  
**KEY MAP**  
**SHEET 1 OF 3**

DCN:	TBD
DATE:	
PROJECT FILE NO:	TBD
DRAWING NO:	<b>G004</b>
SHT NO / TOTAL	
REV NO:	

 VOLUME 2 OF 2, MERCER ISLAND CONVEYANCE



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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER:
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01340C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND  
 ENATAI INTERCEPTOR UPGRADE - CONVEYANCE IMPROVEMENTS  
**KEY MAP**  
**SHEET 2 OF 3**

DCN:	TBD
DATE:	
PROJECT FILE NO:	TBD
DRAWING NO:	<b>G005</b>
SHT NO / TOTAL	
REV NO:	

GENERAL ABBREVIATIONS

A AMPERE ASPHALIC CONCRETE, ACOUSTIC AIR CONDITIONING ADMINISTRATION ADMINISTRATION AFF ACC ACOU ACU ADD ADP ADPT AF AFL AGGR AHU AL ALT AMB AMD ANC ANOD AP APX AR ARCH AS ASPH ASSY AUTO AV AVE	B BAC BBE BC BCOP BCR BD BF BGAT BHP BKR BLE BLDG BLK BM BO BOD5 BOP BOT BRDG BRG BRK BRZ BSN BTU BULKHDS BUN BV	C CAB CAF CAP CB CC C/C CCSP CD CDF CDR CDU CED CER CF CFG CFH CFM CFR CFS CH CHR CI CIP CJ CK CKPL CKT C/L CL CLG CLK CLR CM CMA CMC CML CMP CMPA CMU CND CNTL CO CO 2	D DEGREE, DRYER, DEEP, DRAIN DUCT BANK, DOWEL BAR DIAMETER AT BREAST HEIGHT DISTRIBUTED CONTROL SYSTEM DENSITY METER DECREASING DEMO DET DF DFD DGD DI DIAG DIA DIP DIR DIS DISCH DN DNR DO DR DRG DRP DWF DWS(S) DWS(S) E EAST, EMERGENCY EXHAUST AIR, EACH ENTERING AIR TEMPERATURE ENGINE ALTERNATOR UNIT END OF CURVE ECCENTRIC ED EE EF EFFLUENT EG EH EJ EL, ELEV ELECT ELL EMBD EOL EOP E/P EPDM EPR EPS EQ EQUIP EQUIV ES ESMT EW EWEF EWT EWT&B EX EXH EXIST EXP EXT F FAHRENHEIT, FACE, FUSE(D), FAN, FLOAT FOUL AIR FAB FAI FB FC FCL FCO FDR FDC FDR FE FE F/F	E FINISHED GRADE FIRE HYDRANT, FLATHEAD FLATHEAD FINISHED FL FLOOR, FLOW LINE FLOCCULATOR FLEX FLNGE(D), FLAP GATE FLR FLR FLT FM FMH FMX FND FO FOB FOT FP FPC FPC-T FPM FPS FR FRP FS FT FTG FURRG FUT FZS G GAGE, GAUGE GALLON GALV GB GBV GD GDR GEN, GENL GFI GI GL GND GPD GPM GRD GRT GRGT GSKT GSP GV GWT GYP H HIGH, HORIZONTAL, HOIST H/A HARDBD HC HD HDOT HDPE HDR HDWR HEX HG HH HM HMA HOA HOR, HORIZ HP HPEL HR HRB HRS HRF HSS HT HTL HTR HTV HV H/V HVAC HWTR HYD HYDT IB ICN ID IE IF IL INF INSUL INST INT INTER INTLK INV INV EL I/O IRRIG IT	F FINISHED GRADE FIRE HYDRANT, FLATHEAD FLATHEAD FINISHED FL FLOOR, FLOW LINE FLOCCULATOR FLEX FLNGE(D), FLAP GATE FLR FLR FLT FM FMH FMX FND FO FOB FOT FP FPC FPC-T FPM FPS FR FRP FS FT FTG FURRG FUT FZS G ACTUATED GATE, GUTTER ELEVATION GAGE, GAUGE GALLON GALV GB GBV GD GDR GEN, GENL GFI GI GL GND GPD GPM GRD GRT GRGT GSKT GSP GV GWT GYP H HIGH, HORIZONTAL, HOIST H/A HARDBD HC HD HDOT HDPE HDR HDWR HEX HG HH HM HMA HOA HOR, HORIZ HP HPEL HR HRB HRS HRF HSS HT HTL HTR HTV HV H/V HVAC HWTR HYD HYDT IB ICN ID IE IF IL INF INSUL INST INT INTER INTLK INV INV EL I/O IRRIG IT	G ACTUATED GATE, GUTTER ELEVATION GAGE, GAUGE GALLON GALV GB GBV GD GDR GEN, GENL GFI GI GL GND GPD GPM GRD GRT GRGT GSKT GSP GV GWT GYP H HIGH, HORIZONTAL, HOIST H/A HARDBD HC HD HDOT HDPE HDR HDWR HEX HG HH HM HMA HOA HOR, HORIZ HP HPEL HR HRB HRS HRF HSS HT HTL HTR HTV HV H/V HVAC HWTR HYD HYDT IB ICN ID IE IF IL INF INSUL INST INT INTER INTLK INV INV EL I/O IRRIG IT	H HIGH, HORIZONTAL, HOIST H/A HARDBD HC HD HDOT HDPE HDR HDWR HEX HG HH HM HMA HOA HOR, HORIZ HP HPEL HR HRB HRS HRF HSS HT HTL HTR HTV HV H/V HVAC HWTR HYD HYDT IB ICN ID IE IF IL INF INSUL INST INT INTER INTLK INV INV EL I/O IRRIG IT	I INTERNATIONAL BUILDING CODE INCINERATOR INSIDE DIAMETER INVERT ELEVATION INSIDE FACE INDICATING LAMP, INSTRUMENT LOOP INF INSUL INST INT INTER INTLK INV INV EL I/O IRRIG IT	J JUNCTION BOX JUNCTION JOIST JOINT(S) K KCDTRSD KCSWDM KD KV KVA KVAR KW LAT LB(S) LEL LEV LF LFBR LG LH LJ LLV LO LOS LP LPEL LS LV M MA MAL MALL MAN MANTL MAX MBH MCC MCM MCU MD MECH MEE MFR MG MGD MGL MGR MH MHHW MI MIE MILSPC MIN MISC MJC ML MLLW MLW MME MO MOD MON MPH MTL MTR MUL/DIV MV MXR N NA NaOH NC NE NEG NF NIC NO NOM NP NPSH NPT NRS NS NU NW OA OAI OB OC OF OH OHWM OL O/O OPNG ORF ORP ORT OSA OSC O 2	J JUNCTION BOX JUNCTION JOIST JOINT(S) K KCDTRSD KCSWDM KD KV KVA KVAR KW LAT LB(S) LEL LEV LF LFBR LG LH LJ LLV LO LOS LP LPEL LS LV M MA MAL MALL MAN MANTL MAX MBH MCC MCM MCU MD MECH MEE MFR MG MGD MGL MGR MH MHHW MI MIE MILSPC MIN MISC MJC ML MLLW MLW MME MO MOD MON MPH MTL MTR MUL/DIV MV MXR N NA NaOH NC NE NEG NF NIC NO NOM NP NPSH NPT NRS NS NU NW OA OAI OB OC OF OH OHWM OL O/O OPNG ORF ORP ORT OSA OSC O 2	P PAR PBE P/C PCC PCHV PCP PCS PC-T PCU PE P/E PEN PERF PF PG PH PJF POC POI PID PK PL PLAM PLC PLCS PLE PLY PLWD P04 POE POP PP PPD PPH PRD PRES PREFIN PRS PRV PS PSE PSF PSH PSIA PSIG PSL PT PV PVC PVI PVL PVT Q QCPL R RA RAD RAF R/C RCDR RCF RCR RD REC RECD RECEPT RECIRC RECP RED REF REG REINF REL REM REQD RESIL RE-STL REV RF RG RGS RH RL RM RND RO RP RPM RR RT RTRP RTU RV R/W RWL RWP	S SOUTH, SOLENOID VALVE, SLOPE SILENCER SUPPLY AIR, SERVICE AIR SIGNAL BOX SEGMENTAL CONCRETE BLOCK SCRUBBER DRAIN SCFM SCH SCRD SD SA SB SCB SCD SCFM SCH SCRD SD SE SEC SEP SF SG SHT SI SIM SL SLG SN SO2 SOL SP SO SPCS SPD SPEC(S) SPG SPL SPT SR SRG SRT SRV SS SSC SSFH SSFM SSK SST ST STA STD STGA STL STOR STR STRUCT SUB SUPERV SUPT SURF SV SVI PVL PVT Q QCPL R RA RAD RAF R/C RCDR RCF RCR RD REC RECD RECEPT RECIRC RECP RED REF REG REINF REL REM REQD RESIL RE-STL REV RF RG RGS RH RL RM RND RO RP RPM RR RT RTRP RTU RV R/W RWL RWP	T THERMOSTATIC VALVE THERMOWELL TYPICAL UNIFORM BUILDING CODE UNDERGROUND UNIT HEATER ULTIMATE LOAD UNLESS OTHERWISE NOTED UTILITY POLE UNINTERRUPTIBLE POWER SUPPLY UTILITY STATION UNDERSIDE UNIT SUBSTATION UTILITIES ULTRAVIOLET LAMP BANK VALVE, VENT, VOLTS, VERTICAL, VAULT VACUUM, VOLTS ALTERNATING CURRENT VARIES, VARIABLE VALVE BOX VERTICAL CURVE, CHEMICAL VENT VITRIFIED CLAY PIPE VOLUME DAMPER VOLTS DIRECT CURRENT VERTICAL(S) VACUUM FILTER VAPOR PRESSURE, VACUUM PUMP, PETROLEUM VENT VERTICAL POINT OF INTERSECTION VARIABLE SPEED COUPLING VENT THROUGH ROOF VARIABLE VOLUME BOX W WEST, WIDE, WOOD, WOMENS, WASHER, WEST, WATER, WASTE WITH WAS WC WCO WEG WER WF WG WI WL WM W/O WOL WP WPJ WN WNG WR WS WSDOT WSP WSR WSTP WT WWF X XDCR XFMR XMTR XLP XP YCO YR ZS # & @ Ø △ %	U UNIFORM BUILDING CODE UNDERGROUND UNIT HEATER ULTIMATE LOAD UNLESS OTHERWISE NOTED UTILITY POLE UNINTERRUPTIBLE POWER SUPPLY UTILITY STATION UNDERSIDE UNIT SUBSTATION UTILITIES ULTRAVIOLET LAMP BANK VALVE, VENT, VOLTS, VERTICAL, VAULT VACUUM, VOLTS ALTERNATING CURRENT VARIES, VARIABLE VALVE BOX VERTICAL CURVE, CHEMICAL VENT VITRIFIED CLAY PIPE VOLUME DAMPER VOLTS DIRECT CURRENT VERTICAL(S) VACUUM FILTER VAPOR PRESSURE, VACUUM PUMP, PETROLEUM VENT VERTICAL POINT OF INTERSECTION VARIABLE SPEED COUPLING VENT THROUGH ROOF VARIABLE VOLUME BOX W WEST, WIDE, WOOD, WOMENS, WASHER, WEST, WATER, WASTE WITH WAS WC WCO WEG WER WF WG WI WL WM W/O WOL WP WPJ WN WNG WR WS WSDOT WSP WSR WSTP WT WWF X XDCR XFMR XMTR XLP XP YCO YR ZS # & @ Ø △ %	V VALVE, VENT, VOLTS, VERTICAL, VAULT VACUUM, VOLTS ALTERNATING CURRENT VARIES, VARIABLE VALVE BOX VERTICAL CURVE, CHEMICAL VENT VITRIFIED CLAY PIPE VOLUME DAMPER VOLTS DIRECT CURRENT VERTICAL(S) VACUUM FILTER VAPOR PRESSURE, VACUUM PUMP, PETROLEUM VENT VERTICAL POINT OF INTERSECTION VARIABLE SPEED COUPLING VENT THROUGH ROOF VARIABLE VOLUME BOX W WEST, WIDE, WOOD, WOMENS, WASHER, WEST, WATER, WASTE WITH WAS WC WCO WEG WER WF WG WI WL WM W/O WOL WP WPJ WN WNG WR WS WSDOT WSP WSR WSTP WT WWF X XDCR XFMR XMTR XLP XP YCO YR ZS # & @ Ø △ %	W WEST, WIDE, WOOD, WOMENS, WASHER, WEST, WATER, WASTE WITH WAS WC WCO WEG WER WF WG WI WL WM W/O WOL WP WPJ WN WNG WR WS WSDOT WSP WSR WSTP WT WWF X XDCR XFMR XMTR XLP XP YCO YR ZS # & @ Ø △ %	X XDCR XFMR XMTR XLP XP YCO YR ZS # & @ Ø △ %	Y YARD CLEANOUT YEAR POSITION SWITCH # & @ Ø △ %	Z ZS # & @ Ø △ %
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 PLOTTED BY: Shtuy, Eric

NO	REVISION DESCRIPTION	BY	APVD	DATE
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**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: <b>E. SCHEY</b>	SCALE: <b>AS NOTED</b>
PROJECT ENGINEER: <b>J. CHAE</b>	REFERENCE 
DESIGN APPROVAL: <b>R. BROWNE</b>	FACILITY NUMBER: <b>333</b>
PROJECT ACCEPTANCE: <b>S. YILDIZ</b>	CONTRACT NO: <b>C01339C20</b>



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
**NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS**  
**GENERAL ABBREVIATIONS**

DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	<b>G006</b>
SHT NO / TOTAL	006 / 393
REV NO:	

**SITE**

**PROJECT DESCRIPTION**

**NORTH MERCER PUMP STATION**-THE NORTH MERCER PUMP STATION SERVES NORTH MERCER ISLAND, WITH FLOW CONTRIBUTIONS FROM THE CENTRAL BUSINESS AREA SOUTH OF INTERSTATE 90 (I-90) AND FROM RESIDENTIAL AREAS AROUND THE PUMP STATION AND ALONG THE LAKE WASHINGTON SHORELINE TO THE NORTH. THE PUMP STATION RECEIVES GRAVITY FLOW FROM THE WEST TRUNK AND DISCHARGES TO THE NORTH MERCER FORCE MAIN.

20-YEAR PEAK FLOWS HAVE BEEN PROJECTED TO EXCEED THE STATION'S FIRM CAPACITY OF 7 TO 8 MILLION GALLONS PER DAY (MGD) BY 2020. THE PROJECTED PEAK FLOW WILL EXCEED THE RATED THREE-PUMP CAPACITY OF 9 MGD BY 2040. THE UPGRADED PUMP STATION WILL INCLUDE THREE PUMPS WITH 200-HP MOTORS SITED WITHIN THE EXISTING PUMP STATION FOOTPRINT. A NEW BUILDING WILL HOST A NEW GENERATOR, BATHROOM, ASSOCIATED ELECTRICAL AND INSTRUMENTATION AND CONTROL EQUIPMENT.

**CITY OF MERCER ISLAND LIFT STATION 11**-THE CITY OF MERCER ISLAND'S LIFT STATION 11 DISCHARGES TO THE EAST TRUNK. LOCATED IN FRUITLAND LANDING PARK AT THE END OF 97TH AVENUE SE, THE STATION IS PART OF THE CITY OF MERCER ISLAND'S LAKE LINE SEWER.

FLOWS FROM LIFT STATION 11, LOCATED ALONG THE SHORELINE AT 97TH AVENUE SE, WILL BE DIRECTED TO THE NEW NORTH MERCER INTERCEPTOR ALONG THE I-90 TRAIL. SINCE FLOWS WILL BE DIRECTED UPHILL RATHER THAN TOWARD THE LAKE LINE, LIFT STATION 11 WILL REQUIRE INCREASED HEAD CAPACITY. RATHER THAN REPLACING EXISTING DRY-PIT PUMPS, THE CITY HAS ELECTED TO CONVERT THE STATION TO SUBMERSIBLE PUMPS. THEREFORE WORK AT LIFT STATION 11 INCLUDES MODIFICATIONS TO CONVERT THE EXISTING DRY WELL TO A WET WELL AND ASSOCIATED STRUCTURAL, ELECTRICAL AND I&C MODIFICATIONS.

**NORTH MERCER PUMP STATION DETAILED DESCRIPTION**

MOST OF THE PROPOSED WORK INVOLVES REPLACEMENT OF PUMPING EQUIPMENT. THE OCCUPANCY CLASSIFICATION (UNDER INTERNATIONAL EXISTING BUILDING CODE (IEBC)) WILL REMAIN U-UTILITY, AND THE BUILDING WILL REMAIN PREDOMINANTLY UNOCCUPIED.

INDIVIDUAL PUMP CAPACITY REQUIREMENTS TO MEET THE DESIGN FLOW CRITERIA ARE AS FOLLOWS:

- WITH A 2060 5-YEAR PEAK FLOW OF 7.43 MGD, EACH PUMP MUST OPERATE AT A FLOW RATE OF 3.72 MGD IN ORDER FOR THE PUMP STATION TO MEET THE FIRM CAPACITY REQUIREMENT.
- WITH A 2060 20-YEAR PEAK FLOW OF 10.53 MGD, EACH PUMP MUST OPERATE AT A FLOW RATE OF 3.51 MGD IN ORDER FOR THE PUMP STATION TO MEET THE PEAK CAPACITY REQUIREMENT.

THE SELECTED DESIGN PUMP CAPACITY IS 3.72 MGD FOR EACH OF THE THREE NEW PUMPS TO BE INSTALLED. EACH WILL BE A 200-HP PUMP WITH A DESIGN HEAD OF 215 FEET.

**WET WELL**

ALONG WITH INSTALLATION OF NEW PUMP STATION SUCTION PIPING, AN OGEE RAMP, FILLETS AND OTHER NEW CONCRETE FILL WILL BE INSTALLED IN THE EXITING WET WELL TO FACILITATE PUMP OPERATION AND WET WELL CLEANING. THE EXISTING METAL ACCESS PLATFORM WILL BE REPLACED WITH AN FRP PLATFORM AND THE EXISTING CHEMICAL ODOR CONTROL SYSTEM WILL BE REPLACED WITH A CARBON VESSEL AND FAN LOCATED IN THE SERVICE YARD.

**FORCE MAIN SYSTEM**

NEW 18 AND 16 INCH FORCE MAINS EXIT THE NORTH SIDE OF THE EXISTING STATION AND DISCHARGE IN A STRUCTURE LOCATED IN THE CUL-DE-SAC AT THE END OF 90TH PLACE. PROVISIONS IN THE NEW STATION HEADER WILL ALLOW FOR THE LAUNCH OF PIGS TO CLEAN BOTH FORCE MAINS. THE DISCHARGE STRUCTURE WILL COMBINE BOTH FORCE MAIN PIPES INTO A SINGLE GRAVITY SEWER PIPE AND BE LINED TO PREVENT CORROSION. PROVISIONS WILL BE INSTALLED INSIDE THE STRUCTURE TO FACILITATE CAPTURE AND REMOVAL OF FORCE MAIN PIGS.

**INFLUENT SYSTEM**

THE EXISTING 48 AND 30 INCH INFLUENT SEWER WILL BE USED TO STORE AND DIVERT FLOWS DURING PUMP STATION IMPROVEMENTS.

**LIFT STATION 11 DETAILED DESCRIPTION**

LIFT STATION 11 WILL BE UPGRADED TO ACCOMMODATE THE HIGHER HEAD ASSOCIATED WITH PLANNED PIPELINE IMPROVEMENTS. THE EXISTING LIFT STATION FORCE MAIN WILL ALSO BE REHABILITATED WITH A CURED-IN-PLACE PIPE (CIPP) METHOD, AND THE FORCE MAIN WILL BE EXTENDED WITH A NEW 10-INCH DIAMETER PIPELINE ALONG 97TH AVE SE TO CONNECT TO THE NEW COUNTY INTERCEPTOR SYSTEM.

**SUMMARY OF GOVERNING REGULATIONS**

CODE ENFORCEMENT JURISDICTION: CITY OF MERCER ISLAND, WA  
 ZONING JURISDICTION: CITY OF MERCER ISLAND, WA

CODE: TITLE: EDITION: ADOPTED:

BUILDING:	INTERNATIONAL BUILDING CODE	2015	-
ACCESSIBILITY:	INTERNATIONAL BUILDING CODE	2015	-
MECHANICAL:	INTERNATIONAL MECHANICAL CODE	LATEST	
ELECTRICAL:	UNIFORM ELECTRICAL CODE	LATEST	
PLUMBING:	UNIFORM PLUMBING CODE & IBC CH 29	LATEST	
FIRE PREVENTION:	INTERNATIONAL FIRE PREVENTION CODE	LATEST	
ZONING:	CITY OF MERCER ISLAND - TITLE 19	LATEST	
ENERGY:	WASHINGTON STATE ENERGY CODE	2015	

**LEGAL DESCRIPTION**

LOTS 11 AND 12, EXCEPT THE EAST 145.00 FEET THEREOF, BLOCK 24, MCGILVRA'S ISLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE 58, RECORDS OF KING COUNTY, WASHINGTON

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

**NOTE TO REVIEWER**

COUNTY IS CURRENTLY WORKING ON LOT CONSOLIDATION WITH CITY OF MERCER ISLAND. WILL UPDATE LEGAL DESCRIPTION AND PARCEL NUMBERS ONCE CONSOLIDATION HAS BEEN APPROVED.

ASSESSORS PARCEL NUMBER 5315101946 & 531510945

**TITLE**

PROJECT ADDRESS: 7631 SE 22nd STREET, MERCER ISLAND, WA  
 TITLE VESTED IN: MUNICIPALITY OF METROPOLITAN SEATTLE, A MUNICIPAL CORPORATION OF THE STATE OF WASHINGTON

**RELATED PERMITS**

**PERMIT:**

- FEDERAL
  - U.S. ARMY CORPS OF ENGINEERS: SECTION 10/404 - NATIONWIDE PERMIT 12, UTILITY LINE ACTIVITIES
  - ENDANGERED SPECIES ACT (ESA) COMPLIANCE
  - TRIBAL COORDINATION - MUCKLESHOOT INDIAN TRIBE
  - SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT (NHPA)
- WASHINGTON STATE
  - DEPARTMENT OF ECOLOGY - SECTION 401 WATER QUALITY CERTIFICATION (WQC)
  - DEPARTMENT OF ECOLOGY - NPDES CONSTRUCTION STORMWATER GENERAL PERMIT
  - DEPARTMENT OF ECOLOGY - COASTAL ZONE MANAGEMENT CONSISTENCY
  - STATE ENVIRONMENTAL POLICY ACT (SEPA) REVIEW
  - DEPARTMENT OF FISH AND WILDLIFE - HYDRAULIC PERMIT APPROVAL (HPA)
- LOCAL AGENCIES
  - KING COUNTY INDUSTRIAL WASTEWATER DISCHARGE AUTHORIZATION
  - KING COUNTY EXECUTIVE PROCEDURES FOR THE TREATMENT OF CULTURAL RESOURCES
  - RIGHT OF WAY PERMIT (ROW) - CITY OF MERCER ISLAND
  - GRADING PERMIT - CITY OF MERCER ISLAND
  - CRITICAL AREAS PERMIT - CITY OF MERCER ISLAND
  - STORMWATER PERMIT - CITY OF MERCER ISLAND
  - SHORELINE SUBSTANTIAL DEVELOPMENT PERMIT (SSDP) - CITY OF MERCER ISLAND
  - SHORELINE CONDITIONAL USE PERMIT (CUP) - CITY OF MERCER ISLAND
  - BUILDING PERMITS - CITY OF MERCER ISLAND
  - TREE PERMIT - CITY OF MERCER ISLAND

**NOTE TO REVIEWER**

WILL UPDATE WITH PERMIT NUMBERS ONCE RECEIVED

**BUILDING**

**LOCATION ON PROPERTY** - TEXT

- MINIMUM LOT SIZE: -
- REQUIRED YARDS: -
- MAXIMUM LOT COVERAGE: -
- LANDSCAPING CATEGORY: -
- SIGN CATEGORY: -
- REQUIRED PARKING: -

IBC CHAPTER TWENTY NINE

**PLUMBING SYSTEMS**

- NUMBER OF REQUIRED FIXTURES-
  - WATER CLOSETS REQUIRED: -
  - PROPOSED: -
- LAVATORIES
  - REQUIRED: -
  - PROPOSED: -
- DRINKING FOUNTAIN REQUIRED: -
- PROPOSED: -
- SERVICE SINKS
  - REQUIRED: -
  - PROPOSED: -

WASHINGTON STATE ENERGY CODE 2015 EDITION

**ENERGY CODE**

- CONDITIONED SPACES: -
- WET WELL: -
- DRY WELL: -
- DOORS: -
- WINDOWS: -
- EXTERIOR CMU WALLS: -

- EXTERIOR METAL STUD WALLS: -
- ROOF: -

WASHINGTON STATE WAC CHAPTER 173-60

**ACOUSTIC**

TABLE 173-60.040: MAXIMUM ENVIRONMENTAL NOISE LEVELS  
 SOURCE PROP=CBD ZONE CLASS C EDNA  
 RECEIVE PROP=CBC ZONE CLASS C EDNA  
 PROPOSED: PERMISSIBLE PROPERTY LINE LEVELS NTE  
 60 DBA DAYTIME AND 50 DBA NIGHTTIME

**NOTE TO REVIEWER**

WILL UPDATE CODE REFERENCES FOR 100%

**FOR REFERENCE ONLY**

CALL TWO BUSINESS DAYS BEFORE YOU DIG  
 811

BORDER FILE EDITION: K:\CADD\2012\Drawings\TP-Border  
 FILE LOCATION: C:\Projects\Seattle\12539135-12539-16001\CAD\SheetFiles\333\_E00308E13C008.dwg  
 PLOT DATE: 6/1/2019 11:07 AM  
 PLOTTED BY: Smita, Etc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	FACILITY NUMBER: 333
DESIGN APPROVAL: R. BROWNE	CONTRACT NO: C01339C20
PROJECT ACCEPTANCE: S. YILDIZ	

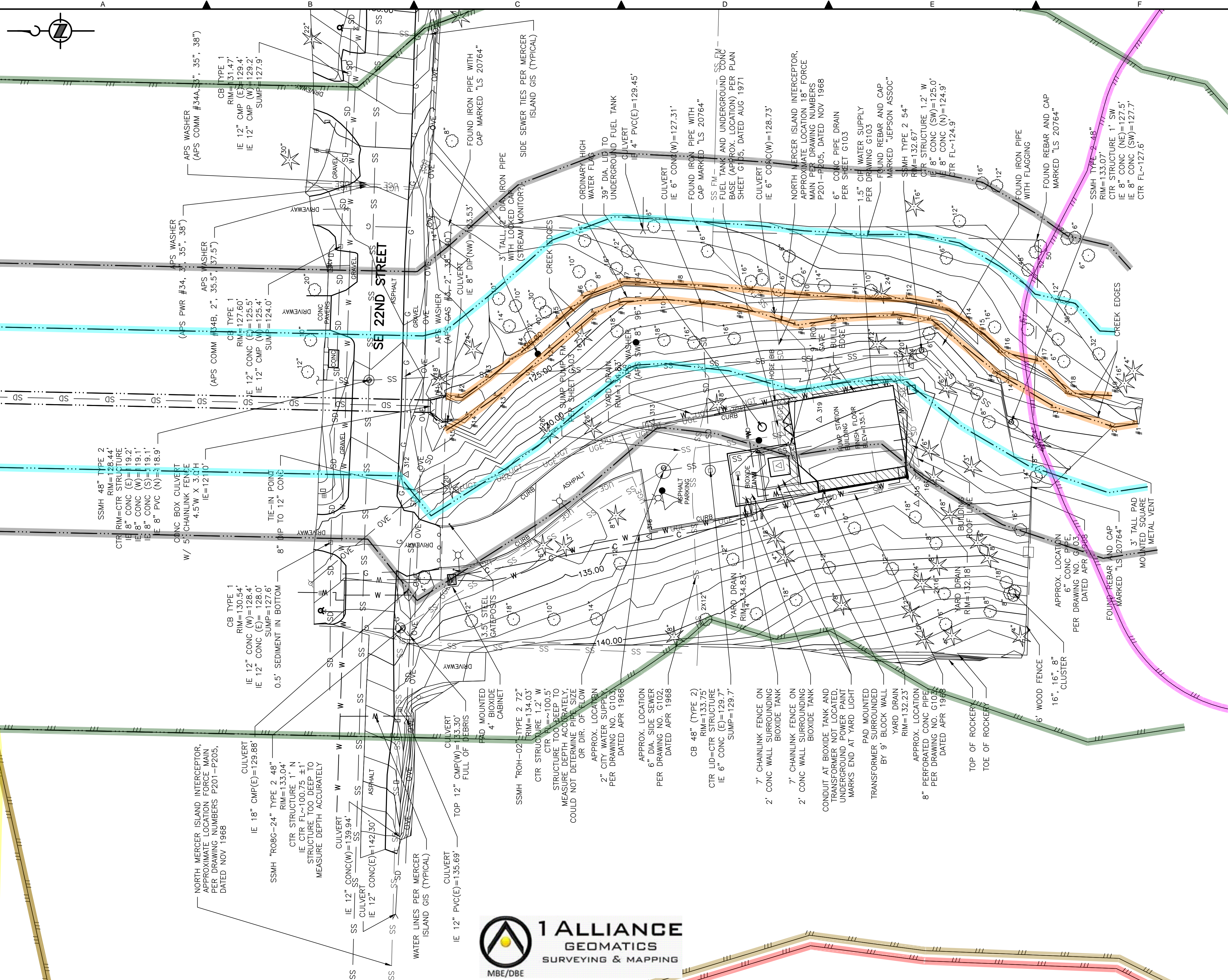


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**LEGAL AND PROJECT DESCRIPTION, CODE SUMMARY**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>G009</b>
SHT NO / TOTAL 009 / 393	REV NO:



BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
 FILE LOCATION: \\WS367200\700CADD\1\02CIVIL\Landuse Permit Drawings\Station\E00306E13--NMP5--G012.dwg  
 PLOT DATE: 9/26/2019 10:03 PM  
 PLOTTED BY: D.Aurig, lsdgc



- NOTES:**
- BASE MAP WAS PROVIDED BY 1 ALLIANCE GEOMATICS, LLC.
  - THIS SHEET IS FOR GENERAL INFORMATION AND REFERENCE FOR THE PROJECT SITE LOCATION.

**CRITICAL AREAS LEGEND**

	120' POTENTIAL FISH-BEARING STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	60' PERENNIAL STREAM BUFFER		ORDINARY HIGH WATER MARK
	60' SEASONAL STREAM BUFFER		25' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	SEISMIC HAZARD AREA		LANDSLIDE HAZARD BUFFER: STEEP SLOPE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
E. VANBUSKIRK  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 20'  
 REFERENCE 1"  
 FACILITY NUMBER:  
333  
 CONTRACT NO:  
C01339C20



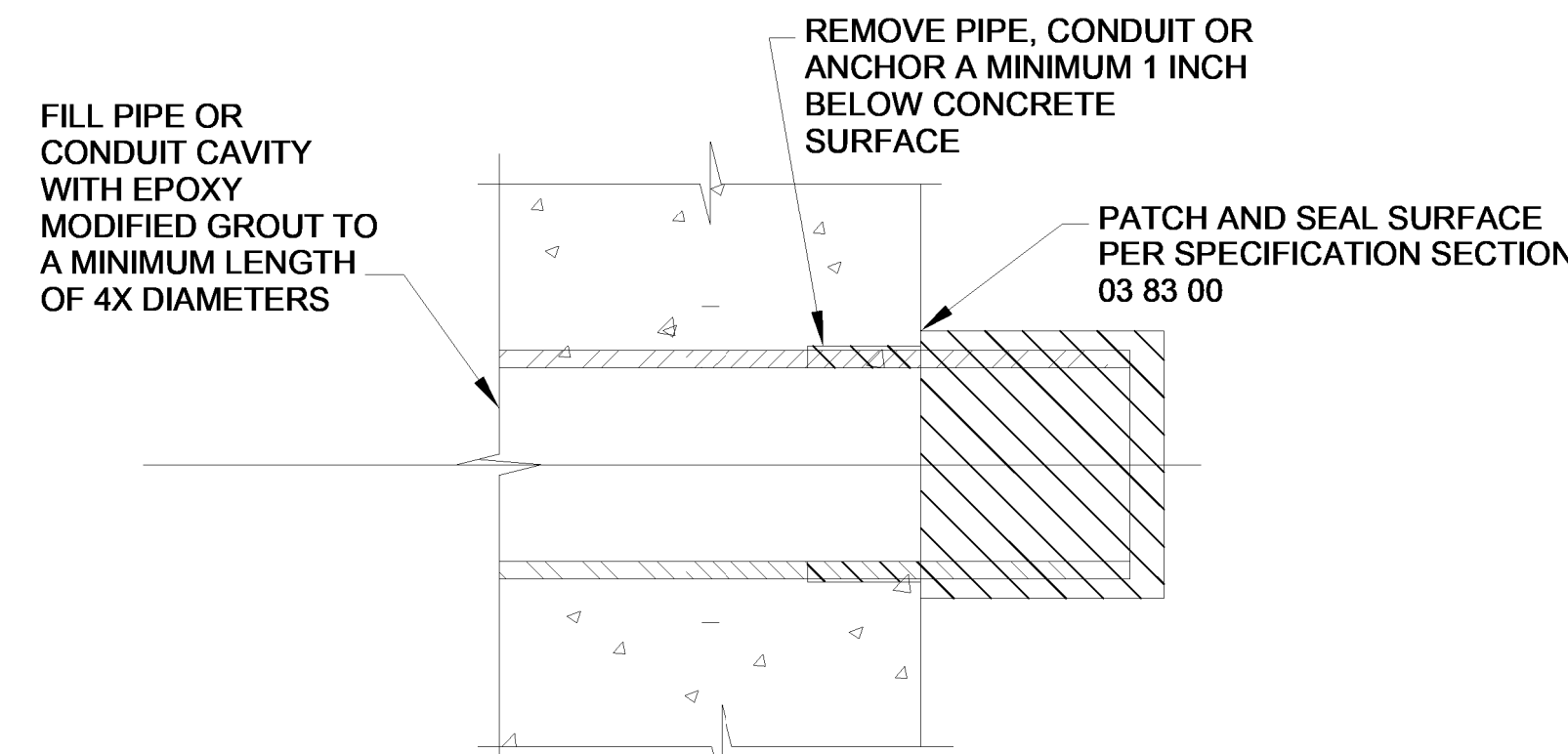
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**TOPOGRAPHIC SURVEY**

DCN:	DATE:	05/02/2019
PROJECT FILE NO.:	DRAWING NO.:	<b>G012</b>
SHT NO. / TOTAL	REV NO.:	/

NO	REVISION DESCRIPTION	BY	APVD	DATE

**GENERAL DEMOLITION NOTES:**

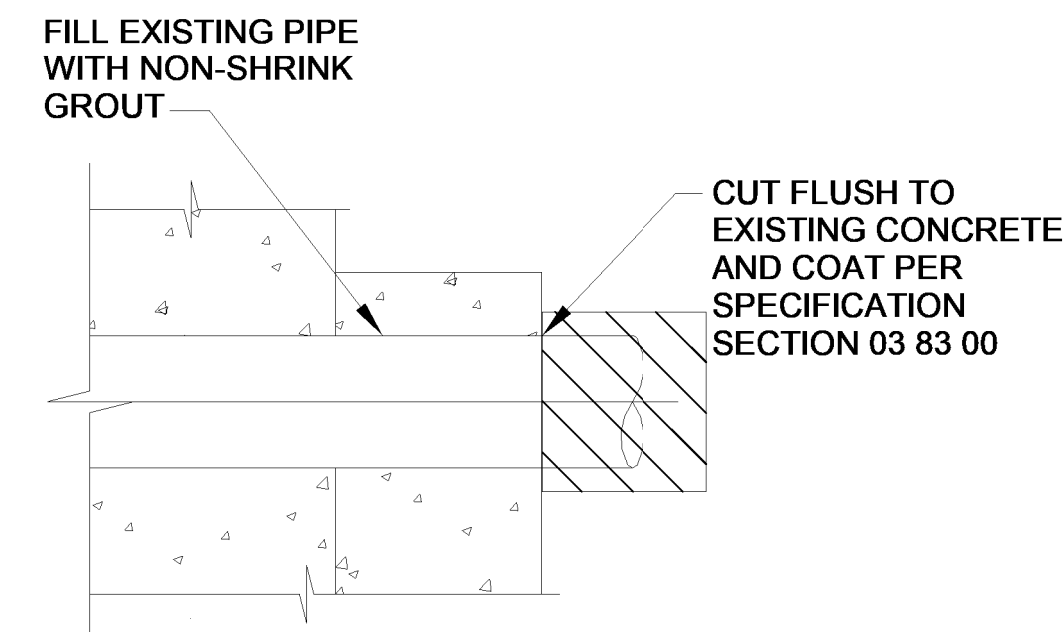
1. DEMOLITION DRAWINGS SHOW FINAL DEMOLITION OF EXISTING FEATURES. CONTRACTOR SHALL DEVELOP A CONSTRUCTION SEQUENCING SUBMITTAL REFLECTING PROPOSED SEQUENCING OF DEMOLITION THAT MAINTAINS EXISTING OPERATIONS AT THE SPECIFIED LEVEL OF SERVICE. SEE SECTION 01 88 00.
2. WHERE EQUIPMENT IS SHOWN TO BE REMOVED, ALSO REMOVE ASSOCIATED CONDUIT, PIPING AND MOUNTING HARDWARE, UNLESS SPECIFICALLY NOTED ELSEWHERE TO MAINTAIN THEM.
3. ALL CONDUIT, MOUNTING HARDWARE, AND PIPING LESS THAN FOUR INCHES SHALL BE REMOVED (CHIPPED AND CUT, OR BURNED) A MINIMUM OF 1" BELOW THE SURFACE OF THE CONCRETE AND PATCHED WITH EPOXY MODIFIED GROUT.
4. MAINTAIN EXISTING FIRE EXTINGUISHERS AND SAFETY EQUIPMENT THROUGHOUT CONSTRUCTION, UNTIL PROPOSED EQUIPMENT IS IN PLACE.
5. ROOM NAMES SHOWN ON DEMOLITION DRAWINGS REFLECT FINAL ROOM NAMES USED IN ALL DRAWINGS. IN SOME CASES ROOM NAME WILL NOT MATCH CURRENT USE OF THE SPACE BUT RATHER IDENTIFIES THE PROPOSED USE.



NOTE: FOR PENETRATIONS BETWEEN WET WELL AND DRY WELL, FILL ENTIRE VOID AND SEAL BOTH SIDES.

**TYPICAL PENETRATION DEMOLITION FOR PIPES AND CONDUITS SMALLER THAN 4"**

DETAIL A  
SCALE: NTS



**PENETRATION DEMOLITION FOR EXISTING PIPING 4" AND LARGER**

DETAIL B  
SCALE: NTS

**FOR REFERENCE ONLY**

CALL TWO BUSINESS DAYS BEFORE YOU DIG  
811

BORDER FILE: KCWTD-2017-Dsize-TB-Header  
FILE LOCATION: BIM\_360/1North\_Mercer\_Pump\_Station/333\_E00306E13-PS-D-2019.rvt  
PLOT DATE: 4/29/2019 5:47:57 AM  
PLOTTED BY: REVIT

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRELIMINARY ISSUE DRAWING  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

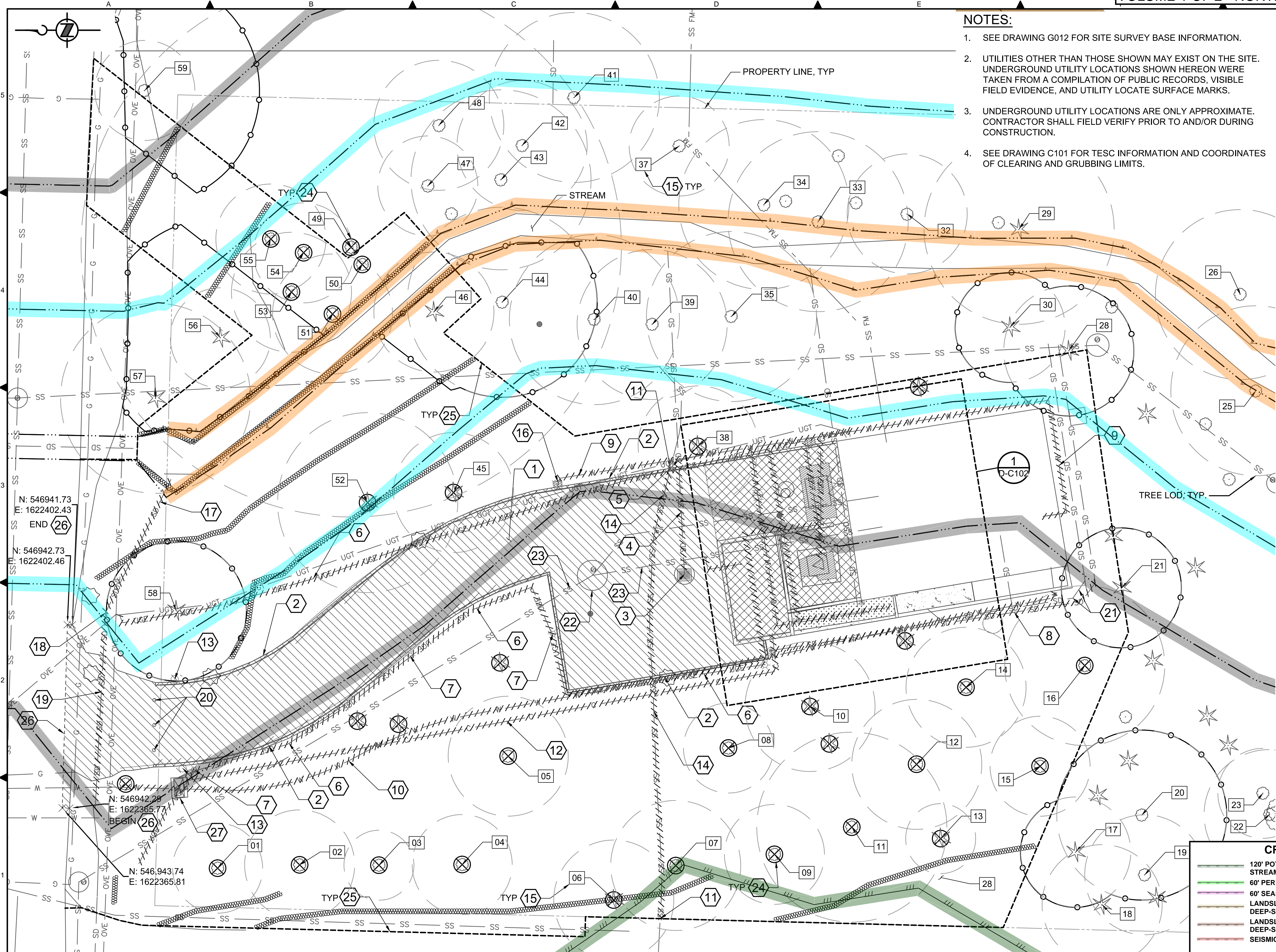
DESIGNED/DRAWN:  
E. SCHEY  
SCALE: NTS  
PROJECT ENGINEER:  
J. CHAE  
DESIGN APPROVAL:  
R. BROWNE  
PROJECT ACCEPTANCE:  
S. YILDIZ  
REFERENCE  
FACILITY NUMBER:  
333  
CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS

**GENERAL DEMOLITION NOTES**

DCN:	DATE:	05/02/2019
PROJECT FILE NO:	DRAWING NO:	<b>D-G001</b>
SHT NO / TOTAL	REV NO:	015 / 393



**NOTES:**

- SEE DRAWING G012 FOR SITE SURVEY BASE INFORMATION.
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
- UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
- SEE DRAWING C101 FOR TESC INFORMATION AND COORDINATES OF CLEARING AND GRUBBING LIMITS.
- TREES 10 INCHES OR GREATER IN SIZE HAVE BEEN TAGGED. SEE DRAWING D-C103 FOR EXISTING TREE INVENTORY TABLE.
- INSTALLATION OF TESC MEASURES AND REMOVAL ITEMS WILL DEPEND UPON THE CONTRACTORS CONSTRUCTION SEQUENCE.
- CLEARING AND GRUBBING LIMITS REFLECT THE TEMPORARY CONSTRUCTION EASEMENT (4 FEET WIDTH BY 86 FEET LENGTH) ALONG THE NORTH WEST PROPERTY BOUNDARY.

**# KEY NOTES:**

- REMOVE ASPHALT PAVEMENT.
- REMOVE CONCRETE CURB / CURB AND GUTTER.
- REMOVE CATCH BASIN.
- REMOVE 6" STORM DRAIN PIPE.
- PLUG STORM DRAIN PIPE.
- REMOVE UNDERGROUND ELECTRICAL LINES.
- REMOVE LUMINAIRE POLE.
- REMOVE 8" PERFORATED DRAIN PIPE.
- REMOVE 1" WATER LINE.
- REMOVE 2" WATER SERVICE LINE. SEE DRAWING C126 FOR NEW PIPING.
- PLUG 6" SIDE SEWER LINE.
- REMOVE 2" BIOXIDE REFILLING PIPING (PVC). SEE DRAWING M101 FOR NEW PIPING.
- REMOVE 3.5" DIA GATE POST/BOLLARD AND CONCRETE FOOTING.
- REMOVE 6" SIDE SEWER LINE.
- TREE INVENTORY NUMBER. SEE DRAWING D-C103.
- REMOVE YARD HYDRANT.
- REMOVE 8" DIA DI STORM PIPE. SEE DRAWING C124 FOR NEW PIPING.
- REMOVE BURIED STORM STRUCTURE. SEE DRAWING C124 FOR NEW STRUCTURE.
- REMOVE 12" DIA CONCRETE STORM PIPE. SEE DRAWING C124 FOR NEW PIPING.
- REMOVE BOLLARD POST FOUNDATION.
- PROTECT 6" STORM DRAIN LINE.
- SEWER STRUCTURE TO REMAIN. PROTECT IN PLACE.
- SEWER LINE TO REMAIN. PROTECT IN PLACE.
- REMOVE TREE.
- CLEARING AND GRUBBING LIMITS. SEE DRAWING C101 INFORMATION.
- SAWCUT LINE.
- REMOVE AND RELOCATE BIOXIDE CABINET. SEE DRAWING M101 FOR NEW LOCATION.
- EXCAVATION FOR ENHANCED PLANTING PREPARATION AREA. SEE DRAWING L101.

**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
 FILE LOCATION: P:\3167200\700CADD\02CIVIL\Landuse Permit Drawings\Station\00306E13-NMPS-D-C101.dwg  
 PLOT DATE: 9/26/2019 9:36 PM  
 PLOTTED BY: D.Aurig, liscac

NO	REVISION DESCRIPTION	BY	APVD	DATE



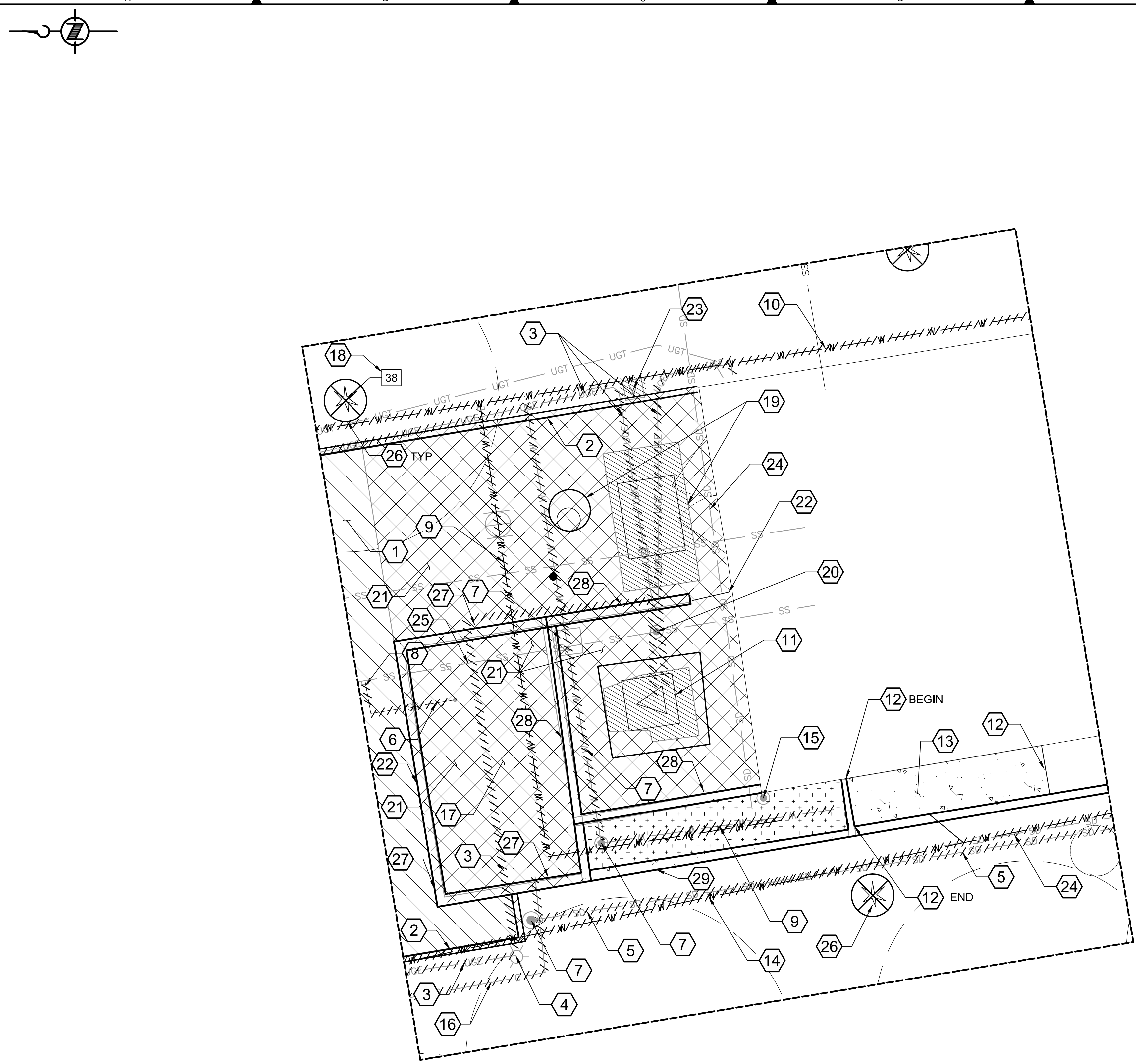
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ  
 SCALE: 1" = 10'  
 REFERENCE: 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**SITE CIVIL DEMOLITION PLAN**

DATE:	05/02/2019
PROJECT FILE NO.:	
DRAWING NO.:	<b>D-C101</b>
SHT NO. / TOTAL	
REV NO.:	



ENLARGED AREA  
 DETAIL 1  
 SCALE: AS NOTED  
 D-C101

**NOTES:**

1. SEE DRAWING G012 FOR SITE SURVEY BASE INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
5. TREES 10 INCHES OR GREATER IN SIZE HAVE BEEN TAGGED. SEE DRAWING D-C103 FOR EXISTING TREE INVENTORY TABLE.
6. SEE DRAWINGS M101, M201, AND M303 FOR WATER, STORM DRAIN, AND SANITARY SEWER BETWEEN PUMP STATION AND GENERATOR BUILDING. RESTORE CONCRETE SLAB AND WALL AS REQUIRED PER KEY NOTE 13.

**# KEY NOTES:**

1. REMOVE ASPHALT PAVEMENT.
2. REMOVE CONCRETE CURB / CURB AND GUTTER.
3. REMOVE UNDERGROUND ELECTRICAL LINES.
4. REMOVE LUMINAIRE POLE.
5. REMOVE 8" PERFORATED DRAIN PIPE.
6. REMOVE 3" BIOXIDE DRAIN PIPE.
7. REMOVE CLEANOUT.
8. PLUG 3" DRAIN PIPE.
9. REMOVE ANY REMAINING IRRIGATION AND SPRINKLER LINES.
10. REMOVE 1" WATER LINE.
11. SEE DRAWING D-E201 FOR REMOVAL OF TRANSFORMER AND CONCRETE PAD / VAULT.
12. SAWCUT EXISTING CONCRETE WALL AND LOWERED WALKWAY.
13. REMOVE CONCRETE LOWERED CONCRETE WALKWAY, AS REQUIRED.
14. REMOVE 2" WATER SERVICE LINE. SEE DRAWING C126 FOR NEW PIPING.
15. REMOVE DOWNSPOUT PIPING. SEE DRAWING C124 FOR NEW PIPING.
16. REMOVE 2" BIOXIDE REFILLING PIPING (PVC). SEE DRAWING M101 FOR NEW PIPING.
17. RELOCATE BIOXIDE TANK (APPROXIMATELY 2500 GALLON, HORIZONTAL LEG, POLYETHYLENE TANK) AND REMOVE CONCRETE ENCLOSURE AND CHAIN LINK FENCE.
18. TREE INVENTORY NUMBER. SEE DRAWING D-C103.
19. REMOVE UNDERGROUND FUEL TANK AND APPURTENANCES. REMOVE EXISTING FUEL LINES AS NEEDED OR ABANDON IN PLACE.
20. PROTECT EXISTING SEWER CLEANOUT TO REMAIN.
21. REMOVE CONCRETE PAVEMENT.
22. REMOVE ACCESS GATE.
23. REMOVE YARD HYDRANT.
24. PROTECT 6" STORM DRAIN LINE.
25. SEWER LINE TO REMAIN. PROTECT IN PLACE.
26. REMOVE TREE.
27. REMOVE CONCRETE STEM WALL AND FENCING.
28. REMOVE CONCRETE STEM WALL WITH BRICK EXTENSION.
29. REMOVE CONCRETE STEM WALL (LANDSCAPING).

FOR REFERENCE ONLY

BORDER FILE EDITION: KCWTD-2012-Dstz=TB-Board  
 FILE LOCATION: P:\3167200\7000ADD\02CIVIL\Landuse Permit Drawings\Station\E00306E13--NMPS--D-C102.dwg  
 PLOT DATE: 6/28/2019 11:22 AM  
 PLOTTED BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
 R. LUDWIG  
 PROJECT ENGINEER:  
 J. CHAE  
 DESIGN APPROVAL:  
 R. BROWN  
 PROJECT ACCEPTANCE:  
 S. YILDIZ

SCALE:  
 1" = 5'  
 REFERENCE  
 FACILITY NUMBER:  
 333  
 CONTRACT NO:  
 C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**SITE CIVIL  
 DEMOLITION  
 PLAN**

DCN:	DATE:	05/02/2019
PROJECT FILE NO:	DRAWING NO:	<b>D-C102</b>
SHT NO / TOTAL	REV NO:	/

TREE TAG	SPECIES	DBH (in.)	LOD (ft.)	DRIP-LINE (ft.)	DISPOSITION	EXCEPTIONAL
1	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	14.0	9	20	REMOVE	NO
2	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	17.2	11	24	REMOVE	NO
3	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	10.5	7	15	REMOVE	NO
4	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	15.0	10	15	REMOVE	NO
5	RED ALDER, <i>ALNUS RUBRA</i>	12.0	12	15	REMOVE	NO
6	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	12.1	12	16	REMOVE	NO
7	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	20.2	13	20	REMOVE	NO
8	PORTUGUESE LAUREL, <i>PRUNUS LUSITANICA</i>	14.0	9	10	REMOVE	NO
9	NORWAY MAPLE, <i>ACER PLATANOIDES</i>	15.5	10	18	REMOVE	NO
10	GRAND FIR, <i>ABIES GRANDIS</i>	19.5	13	15	REMOVE	NO
11	RED ALDER, <i>ALNUS RUBRA</i>	19.0	19	15	REMOVE	NO
12	RED ALDER, <i>ALNUS RUBRA</i>	13.4	13	12	REMOVE	NO
13	DOUGLAS-FIR, <i>PSEUDOTSUGA MENZIESII</i>	10.0	7	12	REMOVE	NO
14	RED ALDER, <i>ALNUS RUBRA</i>	12.0	12	14	REMOVE	NO
15	RED ALDER, <i>ALNUS RUBRA</i>	10.0	10	15	REMOVE	YES
16	RED ALDER, <i>ALNUS RUBRA</i>	15.5	16	25	REMOVE	NO
17	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	17.0	11	15	PROTECT	NO
18	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	11.5	12	13	NO IMPACT	NO
19	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM</i>	18.2	12	20	NO IMPACT	NO
20	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM</i>	25.5	17	30	PROTECT	NO
21	GRAND FIR, <i>ABIES GRANDIS</i>	18.2	12	12	PROTECT	NO
22	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM</i>	19.8	13	20	NO IMPACT	NO
23	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM</i>	14.0	9	20	NO IMPACT	NO
24	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM*</i>	18.1	12	20	NO IMPACT	NO
25	RED ALDER, <i>ALNUS RUBRA</i>	17.0	17	18	NO IMPACT	NO
26	RED ALDER, <i>ALNUS RUBRA</i>	17.0	17	20	NO IMPACT	NO
27	BLACK COTTONWOOD, <i>POPULUS TRICHOCARPA*</i>	78.1	60	35	NO IMPACT	NO
28	GRAND FIR, <i>ABIES GRANDIS</i>	20.0	13	12	PROTECT	NO
29	RED ALDER, <i>ALNUS RUBRA</i>	19.0	19	40	NO IMPACT	NO
30	GRAND FIR, <i>ABIES GRANDIS</i>	16.1	11	12	PROTECT	NO
31	BIGLEAF MAPLE, <i>ACER MACROPHYLLUM*</i>	10.5	7	30	NO IMPACT	NO
32	RED ALDER, <i>ALNUS RUBRA</i>	12.0	12	10	NO IMPACT	NO
33	RED ALDER, <i>ALNUS RUBRA</i>	17.6	18	30 TO W	NO IMPACT	NO
34	RED ALDER, <i>ALNUS RUBRA</i>	17.0	17	20	NO IMPACT	NO
35	RED ALDER, <i>ALNUS RUBRA</i>	17.1	17	25	NO IMPACT	NO
36	WESTERN REDCEDAR, <i>THUJA PLICATA*</i>	11.8	12	15	NO IMPACT	NO
37	OREGON ASH, <i>FRAXINUS LATIFOLIA</i>	14.4	10	15	NO IMPACT	NO
38	GRAND FIR, <i>ABIES GRANDIS</i>	17.3	12	12	REMOVE	NO
39	RED ALDER, <i>ALNUS RUBRA</i>	14.8	15	25	NO IMPACT	NO
40	RED ALDER, <i>ALNUS RUBRA</i>	16.6	17	25	NO IMPACT	NO
41	RED ALDER, <i>ALNUS RUBRA</i>	16.6	17	20 TO E, 10 TO W	NO IMPACT	NO
42	RED ALDER, <i>ALNUS RUBRA</i>	13.1	13	15	NO IMPACT	NO
43	RED ALDER, <i>ALNUS RUBRA</i>	17.5	18	20	NO IMPACT	NO
44	RED ALDER, <i>ALNUS RUBRA</i>	19.1	19	30	PROTECT	NO
45	GRAND FIR, <i>ABIES GRANDIS</i>	18.7	12	15	REMOVE	NO
46	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	18.0	12	20	PROTECT	NO
47	RED ALDER, <i>ALNUS RUBRA</i>	10.0	10	30 TO E	NO IMPACT	NO
48	RED ALDER, <i>ALNUS RUBRA</i>	13.0	13	30 TO E	NO IMPACT	NO
49	BLACK COTTONWOOD, <i>POPULUS TRICHOCARPA</i>	53.6	54	30	REMOVE	YES
50	BLACK COTTONWOOD, <i>POPULUS TRICHOCARPA</i>	0 (SEE #49)	N/A	N/A	0	N/A
51	RED ALDER, <i>ALNUS RUBRA</i>	12.0	12	20 TO W	REMOVE	YES
52	GRAND FIR, <i>ABIES GRANDIS</i>	26.5	18	20	REMOVE	YES
53	RED ALDER, <i>ALNUS RUBRA</i>	12.2	12	25 TO W	REMOVE	YES
54	RED ALDER, <i>ALNUS RUBRA</i>	10.3	10	15 TO N	REMOVE	YES
55	RED ALDER, <i>ALNUS RUBRA</i>	10.5	11	15 TO E	REMOVE	YES
56	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	23.2	10	17	PROTECT	NO
57	WESTERN REDCEDAR, <i>THUJA PLICATA</i>	18.5	19	15	PROTECT	NO
58	GRAND FIR, <i>ABIES GRANDIS</i>	20.7	14	10	PROTECT	NO
59	BLACK COTTONWOOD, <i>POPULUS TRICHOCARPA</i>	23.0	10	15	PROTECT	NO

NOTES:

- TREES LISTED IN THE INVENTORY TABLE ARE SHOWN AND IDENTIFIED ON THE DWG. D-C101 AND D-C102.
- SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
- TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.
- TREES #'S 24, 27, 31 AND 36 ARE LOCATED OUTSIDE OF THE VIEW SHOWN ON DWG D-C101, BUT ARE LOCATED A SUFFICIENT DISTANCE OUTSIDE OF CONSTRUCTION LIMITS TO AVOID BEING IMPACTED.

**FOR REFERENCE ONLY**

\*SEE NOTE 4

BORDER FILE EDITION: KCVTD-2012-Dstz=TB-Border  
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 PLOT DATE: 6/7/2019 3:58 PM  
 PLOTTED BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
L. FRENCH  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
NTS  
 REFERENCE  
 FACILITY NUMBER:  
333  
 CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**EXISTING TREE INVENTORY TABLE**

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: <b>D-C103</b>
SHT NO / TOTAL: 23 / 347
REV NO:

**NOTES:**

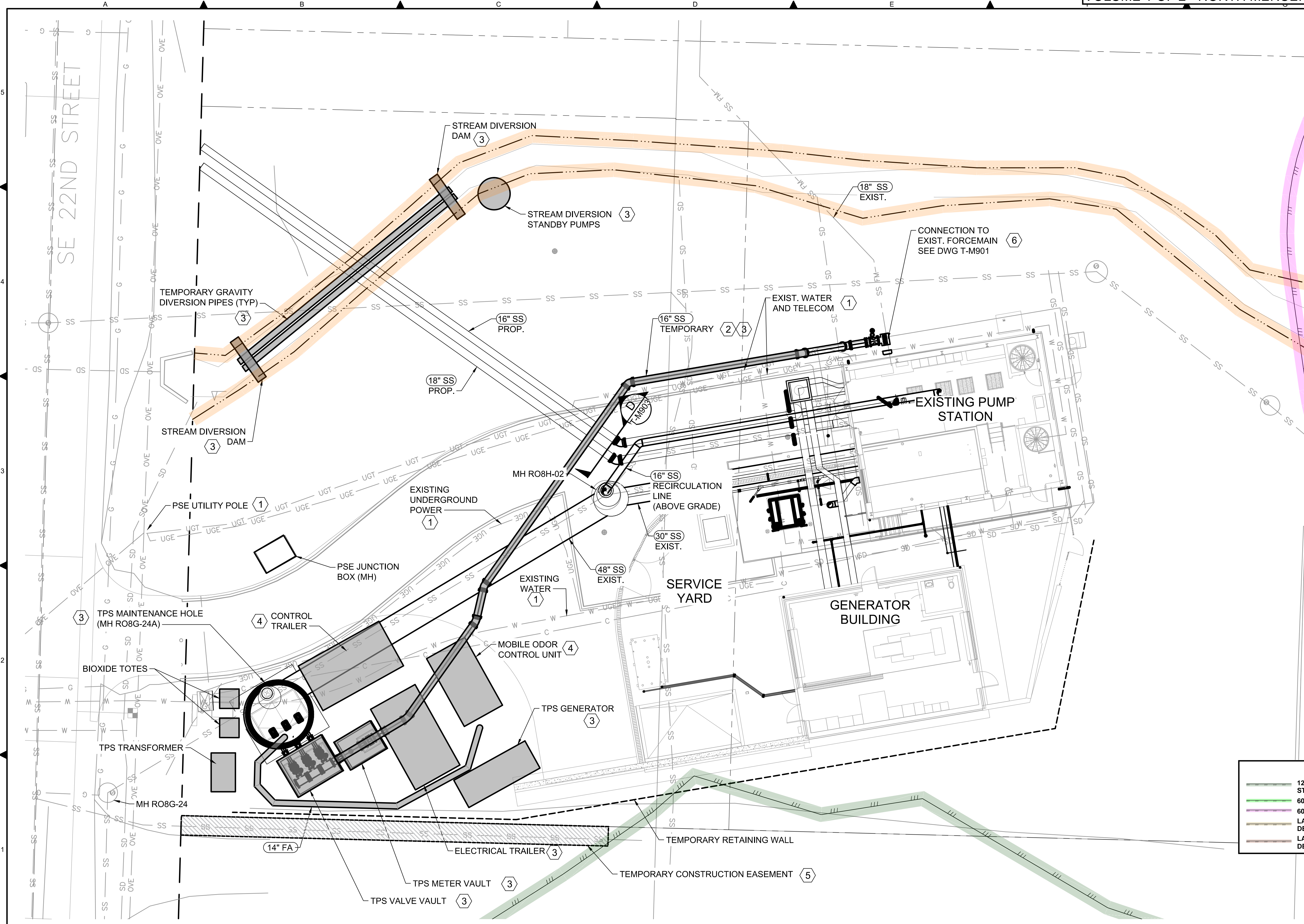
1. SEE DWG T-M901 AND T-M902 FOR TPS PLAN AND SECTIONS.
2. ITEMS SHOWN IN GRAY SHALL BE REMOVED FROM THE SITE UPON DECOMMISSIONING OF TPS. TEMPORARY ELECTRICAL, CONTROLS AND ODOR UNIT TRAILERS SHALL BE RETURNED TO KING COUNTY SOUTH PLANT.

**# KEY NOTES:**

1. PROTECT EXISTING UTILITIES IN PLACE OR RELOCATE AS REQUIRED.
2. UPON DECOMMISSIONING OF TPS, REMOVE TEMPORARY FORCE MAIN.
3. CONTRACTOR PROVIDED TEMPORARY EQUIPMENT.
4. CONTRACTOR SHALL USE COUNTY PROVIDED MOBILE ODOR UNIT AND CONTROL TRAILER. CONTRACTOR RESPONSIBLE FOR MODIFYING THESE FACILITIES TO MEET THE TPS REQUIREMENTS.
5. TEMPORARY CONSTRUCTION EASEMENT IS 4' WIDE BY 86' LONG

**NOTE TO REVIEWER**

6. NEED TO CONFIRM WITH COUNTY HOW EXISTING FORCE MAIN SHOULD BE DECOMMISSIONED AT PUMP STATION TO ALLOW FUTURE INSPECTION AND ASSESSMENT



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	SEISMIC HAZARD AREA
60' PERENNIAL STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' SEASONAL STREAM BUFFER	ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KOWTD-2012-02-26-TP-Boarder  
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 PLOT DATE: 02/02/2019 9:47 AM  
 PLOTTED BY: Monis, Richard

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1"=10'  
 REFERENCE: 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**TEMPORARY FACILITIES**  
**CIVIL SITE PLAN**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: T-C101
SHT NO / TOTAL	REV NO.

**TEMPORARY EROSION/SEDIMENTATION CONTROL NOTES:**

1. THE IMPLEMENTATION OF THESE EROSION & SEDIMENTATION CONTROL PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE EROSION & SEDIMENTATION CONTROL FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED (FLAGGED OR OTHER MARKING) IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE DESIGNATED CLEARING LIMITS SHALL BE PERMITTED, UNLESS OTHERWISE SPECIFIED. THE MARKED LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL DIRECTED BY THE PROJECT REPRESENTATIVE TO BE REMOVED.
3. THE EROSION & SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF SURFACE WATER QUALITY STANDARDS, GROUND WATER STANDARDS, SEDIMENT MANAGEMENT STANDARDS, AND HUMAN HEALTH-BASED CRITERIA IN THE NATIONAL TOXICS RULE (40 CFR PART 131.36).
4. THE EROSION & SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE EROSION & SEDIMENTATION CONTROL FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS AT NO ADDITIONAL COST TO THE COUNTY.
5. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 10 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED EROSION & SEDIMENTATION CONTROL METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
6. ANY AREA NEEDING EROSION & SEDIMENTATION CONTROL MEASURES, NOT REQUIRING IMMEDIATE ATTENTION. SHALL BE ADDRESSED WITHIN TEN (10) DAYS.
7. AT NO TIME SHALL MORE THAN 6 INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN OR CATCH BASIN INSERT. 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.
8. DURING THE TIME PERIOD OF NOVEMBER 1 THROUGH MARCH 31, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET, THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, COMPOST, OR PLASTIC COVERING.
9. APPROVAL OF THE EROSION AND SEDIMENT CONTROL (ESC) OR TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD AND/OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION BMPs, UTILITIES, ETC.) BUT IS AN APPROVAL OF ESC/TESC MEASURES ONLY.
10. THE CONTRACTOR SHALL MARKUP AND RESUBMIT FOR APPROVAL UPDATED TESC PLANS INDICATING LOCATIONS AND SEQUENCING OF MEASURES (FACILITIES AND BMPs) TO BE INSTALLED TO THE PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
11. STABILIZED CONSTRUCTION ENTRANCES, RUMBLE PLATES AND/OR WHEEL WASH FACILITIES, SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
12. ESC/TESC MEASURES SHALL BE INSPECTED DAILY BY THE CONTRACTOR DURING ACTIVE WORK AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED PROPER FUNCTIONING.
13. THE CONTRACTOR SHALL MAINTAIN A FULLY STOCKED SPILL KIT ON SITE AT ALL TIMES.
14. THE CONTRACTOR SHALL DESIGNATE A PERSON TO BE TESC SUPERVISOR. THE TESC SUPERVISOR SHOULD HAVE THEIR CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) CERTIFICATION SINCE THE SITE IS LESS THAN ONE ACRE. THE TESC SUPERVISOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REVIEW OF ESC/TESC MEASURES AND FOR COMPLIANCE WITH ALL PERMIT CONDITIONS RELATING TO ESC/TESC. THE TESC SUPERVISOR MUST BE AVAILABLE FOR RAPID RESPONSE TO ESC/TESC PROBLEMS. THE CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBERS TO REACH THE TESC SUPERVISOR, AT ALL TIMES, TO THE PROJECT REPRESENTATIVE.
15. SHOULD ESC/TESC MEASURES NOT BE PROPERLY INSTALLED AND MAINTAINED, THE PROJECT REPRESENTATIVE MAY STOP ALL WORK NOT PERTAINING TO THE CORRECTION OF ESC/TESC PROBLEMS UNTIL ESC/TESC MEASURES ARE RETURNED TO THE PROPER OPERATION.
16. ALL ESC/TESC BMPs SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.

**TESC CONSTRUCTION SEQUENCE:**

1. ERECT FILTER FABRIC FENCE AND HIGH VISIBILITY FENCING ALONG THE PERIMETER AS SHOWN ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE.
2. INSTALL CATCH BASIN INSERTS IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND THE FIRST CATCH BASIN DOWNSTREAM OF THE PROJECT IF APPLICABLE.
3. INSTALL CULVERT INLET PROTECTION AND INSTALL CURB AND GUTTER BARRIER PROTECTION.
4. CLEAR AND GRUB AREA AS SHOWN ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE. PROTECT VEGETATION AND STRUCTURES AS NOTED ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE.
5. CONSTRUCT IMPROVEMENTS. INSTALL CATCH BASIN INSERTS ON ALL NEWLY INSTALLED CATCH BASINS.
6. PAVE AND PLANT AS SHOWN ON THE PLANS.
7. CLEAN CATCH BASINS AND CONVEYANCE SYSTEM. CONTRACTOR SHALL NOT FLUSH CLEANING WATER DOWNSTREAM.
8. REMOVE REMAINING TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES ONLY AFTER SITE HAS BEEN STABILIZED AND PROJECT REPRESENTATIVE HAS APPROVED REMOVAL.

17. THE PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN. TRACKING OF MUD AND DEBRIS FROM THE SITE WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED UNTIL THE ISSUE IS CORRECTED, AT NO COST TO THE COUNTY.
18. SCRAPING AND SWEEPING OF STREETS, SIDEWALKS, AND FLOWLINES SHALL BE CONDUCTED AT THE END OF EACH WORK DAY WITH A VACUUM SWEEPER OR OTHER APPROVED MEANS. VACUUM/CLEAN UP SLURRY CREATED FROM SAW-CUTTING OF PAVEMENTS IMMEDIATELY AFTER OR CONCURRENT WITH CUTTING.
19. THE WASHINGTON STATE CLEAN AIR ACT REQUIRES THE USE OF ALL KNOWN, AVAILABLE, AND REASONABLE MEANS OF CONTROLLING AIR POLLUTION, INCLUDING DUST. DUST CAN BE CONTROLLED BY WETTING EXPOSED SOILS, WASHING TRUCK WHEELS BEFORE THEY LEAVE THE SITE, AND INSTALLING AND MAINTAINING ROCK CONSTRUCTION ENTRANCES. CONSTRUCTION VEHICLE TRACK-OUT IS A MAJOR SOURCE OF DUST AND ANY EVIDENCE OF TRACK-OUT CAN TRIGGER FINES FROM THE DEPARTMENT OF ECOLOGY OR THE PUGET SOUND AIR POLLUTION CONTROL AGENCY THAT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
20. THE CONTRACTOR SHALL IMPLEMENT LINEAR RUN-ON CONTROLS TO PREVENT WATER FROM ENTERING THE CONSTRUCTION AREA.
21. PORTABLE SANITARY FACILITIES SHALL BE LOCATED AT LEAST 25 FEET FROM ANY STORM WATER INLET OR WATER BODY AND SHALL BE SERVICED REGULARLY AS NEEDED.
22. STATIONARY EQUIPMENT (E.G., GENERATORS, LIGHT STANDS) CONTAINING ANY AMOUNT OF FUELS AND OR OILS SHALL BE EQUIPPED WITH SECONDARY CONTAINMENT.
23. CONTRACTORS USING BMPs BASED ON EQUIVALENT LEVEL OF POLLUTION PREVENTION, "DEMONSTRABLY EQUIVALENT", THAT ARE NOT LISTED IN THE ECOLOGY MANUAL SHALL SUBMIT SUPPORTING PERFORMANCE BMP DOCUMENTATION (SCIENTIFIC, TECHNICAL STUDIES, AND/OR MODELING) AND AN ASSESSMENT OF HOW THE SELECTED BMP WILL SATISFY AKART (ALL KNOWN, AVAILABLE AND REASONABLE METHODS OF PREVENTION, CONTROL AND TREATMENT) AND APPLICABLE FEDERAL TECHNOLOGY-BASED TREATMENT (40 CFR PART 125.3) REQUIREMENTS TO ECOLOGY AT LEAST 60 DAYS PRIOR TO USE OF BMP.
24. CONTRACTORS SHALL NOTIFY ECOLOGY OF CHANGES OF INFORMATION PROVIDED ON THE NOTICE OF INTENT (NOI) INCLUDING, BUT NOT LIMITED TO, PERMITTEE'S MAILING ADDRESS, ON-SITE CONTACT PERSON INFORMATION, AND AREA/ACREAGE AFFECTED BY CONSTRUCTION ACTIVITY.
25. MONITORING REQUIREMENTS, BENCHMARKS, AND REPORTING TRIGGERS SHALL BE IN ACCORDANCE WITH SECTION S4 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP):
  - A. SITES LESS THAN ONE ACRE THAT DISCHARGES STORMWATER TO SURFACE WATERS OF THE STATE IS RECOMMENDED TO HAVE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PERSON CONDUCTING SITE INSPECTIONS.
  - B. SITES OF ONE ACRE OR LARGER THAT DISCHARGES STORMWATER TO SURFACE WATERS OF THE STATE SHALL HAVE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PERSON CONDUCTING SITE INSPECTIONS.
  - C. CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS AND SAMPLING, BASED ON SITE DISTURBANCE, AS SPECIFIED ON TABLE 3 OF SECTION S4.B.5 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP).
26. WHEN PROBLEMS ARE IDENTIFIED DURING INSPECTIONS, THE CONTRACTOR SHALL:
  - A. IMMEDIATELY MAINTAIN APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPs.
  - B. START IMPLEMENTING APPROPRIATE BMP REVISIONS WITHIN 7 DAYS.
  - C. HAVE THE PROBLEM RESOLVED WITHIN 10 DAYS OF THE INSPECTION. IF CORRECTION TO THE PROBLEM CANNOT BE IMPLEMENTED WITHIN 10 DAYS, THE CONTRACTOR SHALL SUBMIT AN EXTENSION REQUEST FORM TO ECOLOGY WITHIN THE INITIAL 10-DAY RESPONSE PERIOD.
27. REPORTING AND RECORD KEEPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION S5 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP):
  - A. IF HIGH TURBIDITY REPORTING LEVELS ARE REACHED, THE INSPECTOR SHALL EITHER CALL THE APPLICABLE ECOLOGY REGION'S ENVIRONMENTAL REPORT TRACKING SYSTEM NUMBER WITHIN 24-HOURS OF ANALYSIS OR SUBMIT AN ELECTRONIC REPORT THROUGH ECOLOGY'S WATER QUALITY PERMITTING PORTAL.
  - B. DISCHARGE MONITORING REPORTS (DMRS) SHALL BE SUBMITTED USING ECOLOGY'S WATER QUALITY PERMITTING PORTAL. INSPECTORS UNABLE TO ACCESS THE PERMITTING PORTAL SHALL REQUEST A WAIVER AND OBTAIN INSTRUCTION FROM ECOLOGY.
  - C. DMRS SHALL BE RECEIVED BY ECOLOGY WITHIN 15 DAYS FOLLOWING THE END OF EACH MONTH.
28. THE CONTRACTOR SHALL KEEP THE GENERAL PERMIT, THE PERMIT COVERAGE LETTER, THE STORMWATER POLLUTION PREVENTION PLAN, AND THE SITE LOG BOOK ON SITE OR WITHIN REASONABLE ACCESS TO THE SITE.

**FOR REFERENCE ONLY**

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 PLOTTED BY: D.Aurilio, lsgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



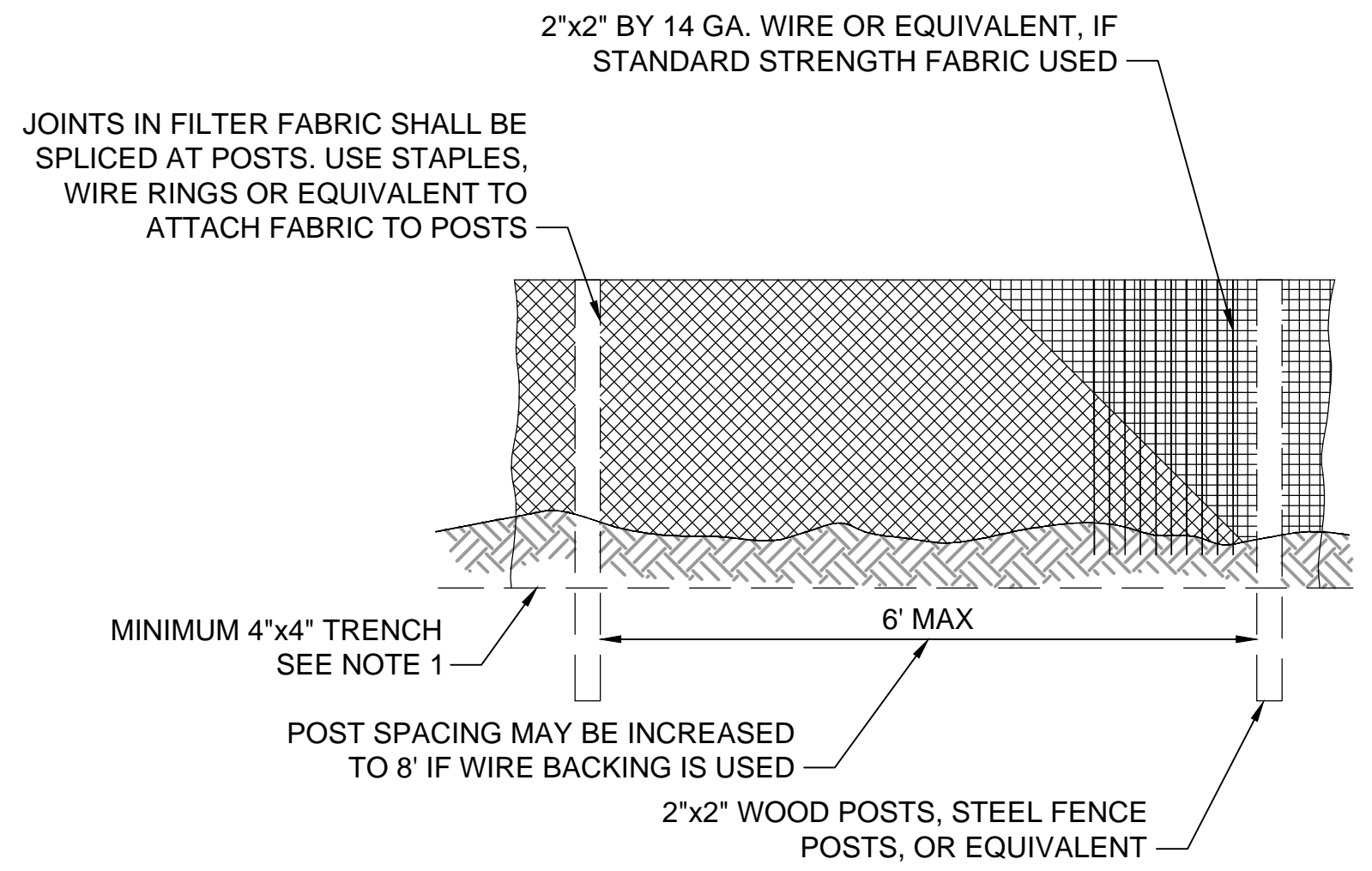
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: NONE
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**EROSION CONTROL  
 GENERAL NOTES**

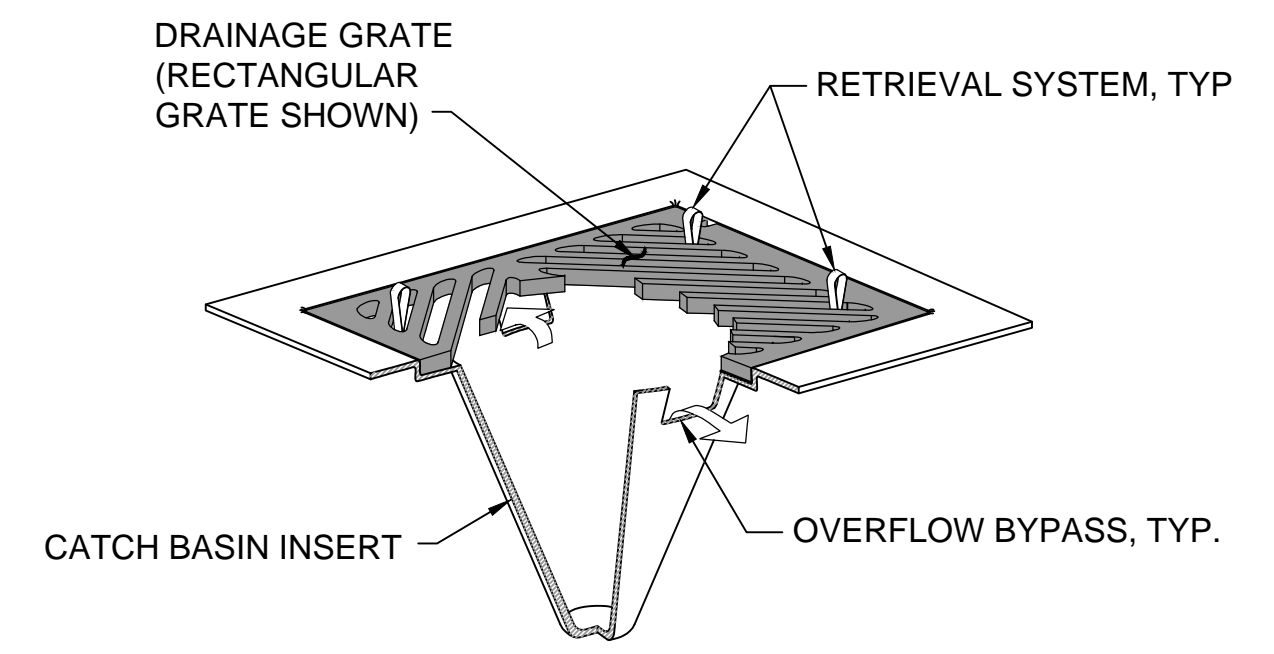
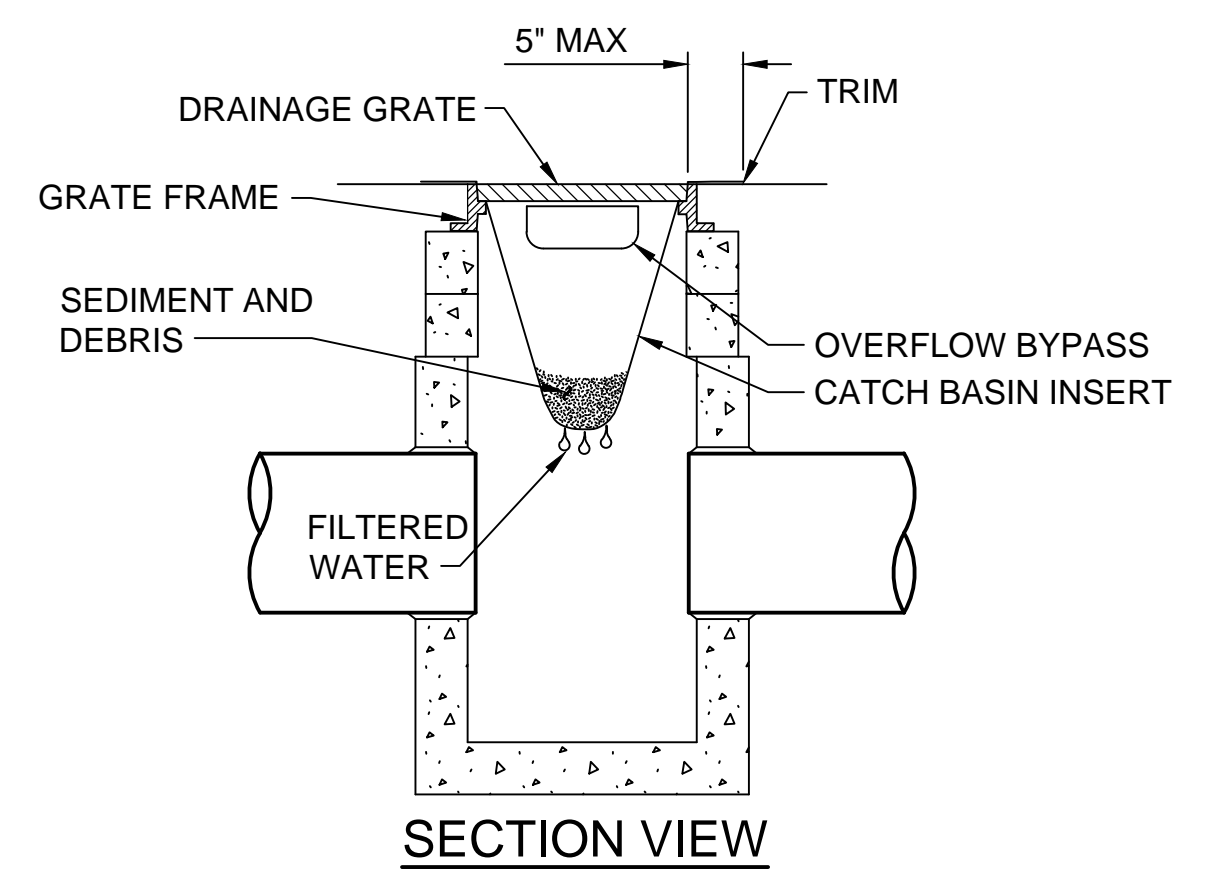
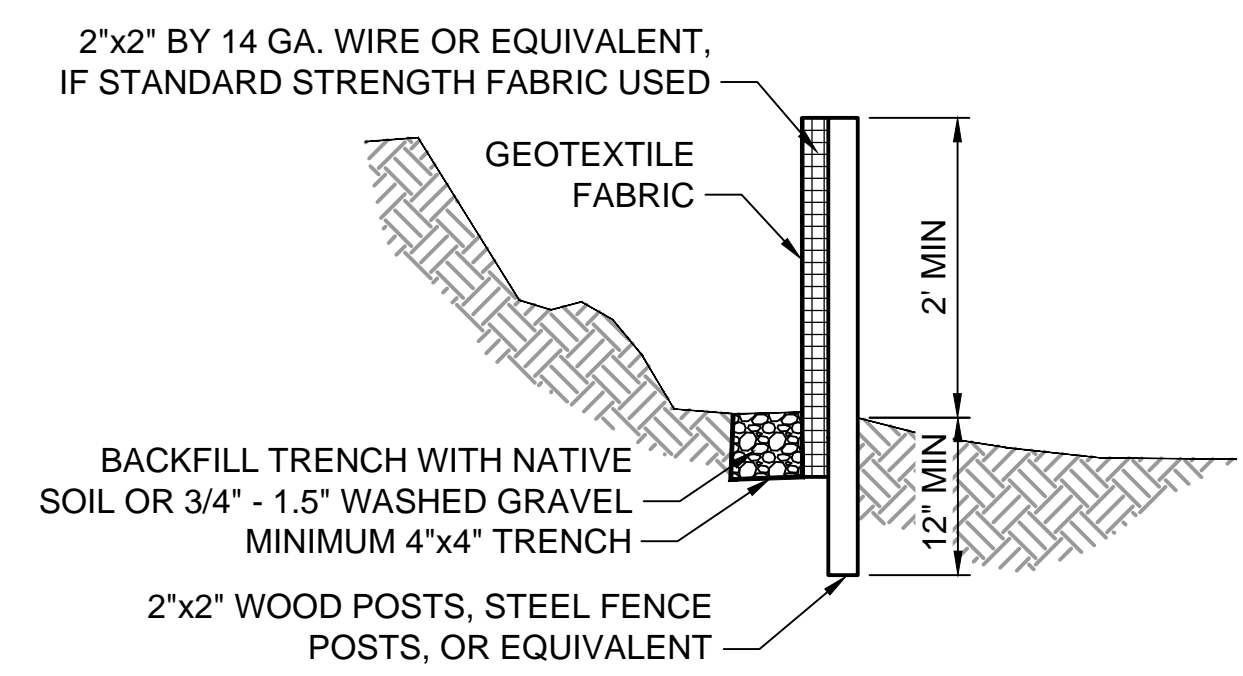
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PROJECT FILE NO:	DRAWING NO: <b>C011</b>
SHT NO / TOTAL XXX /	REV NO:



**SILT FENCE**

DETAIL **1**  
SCALE: NTS  
SOURCE: AMENDED 2014 SWMMWW

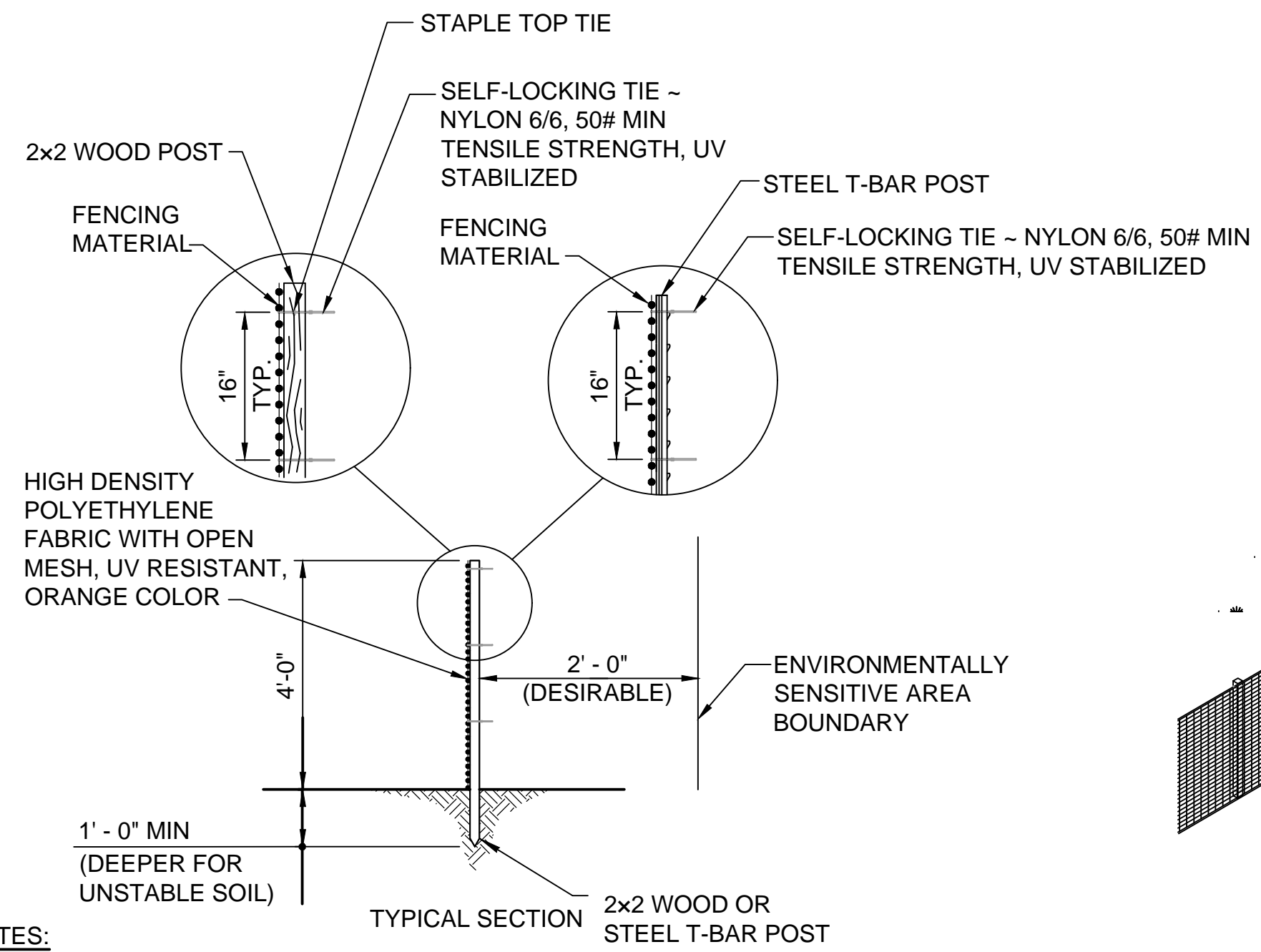
- NOTES:**
1. SILT FENCE LOCATED WITHIN A TREE PROTECTION ZONE TO UTILIZE SAND BAGS IN LIEU OF TRENCHING TO SECURE BOTTOM OF GEOTEXTILE FABRIC.
  2. THE CONTRACTOR IS TO PLACE THE FENCE AS CLOSE AS PRACTICAL TO THE EDGE OF PAVEMENT WHEN SHOWN ON DRAWINGS.



**STORM DRAIN INLET PROTECTION**

DETAIL **2**  
SCALE: NTS  
SOURCE: 2016 WSDOT

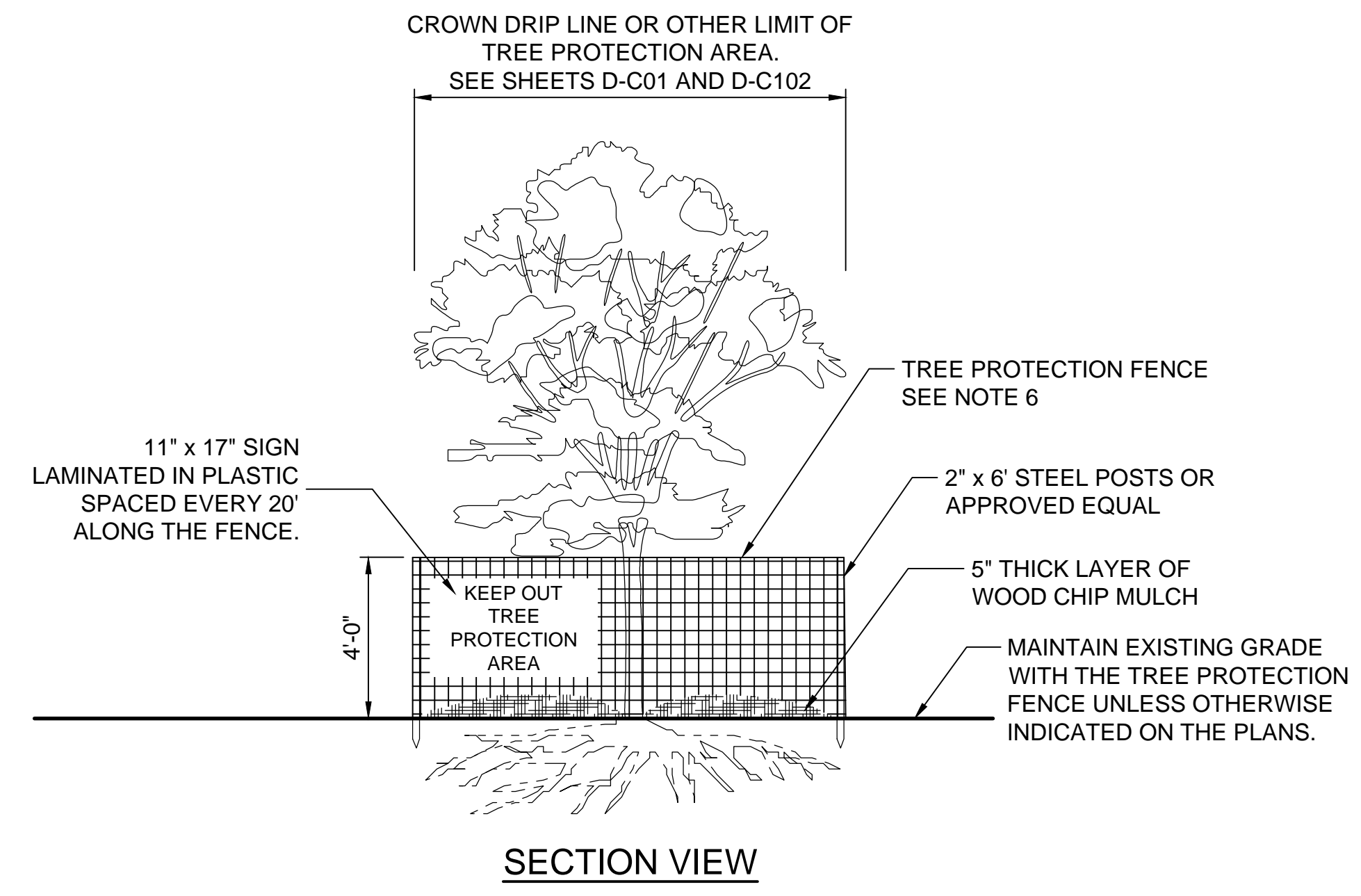
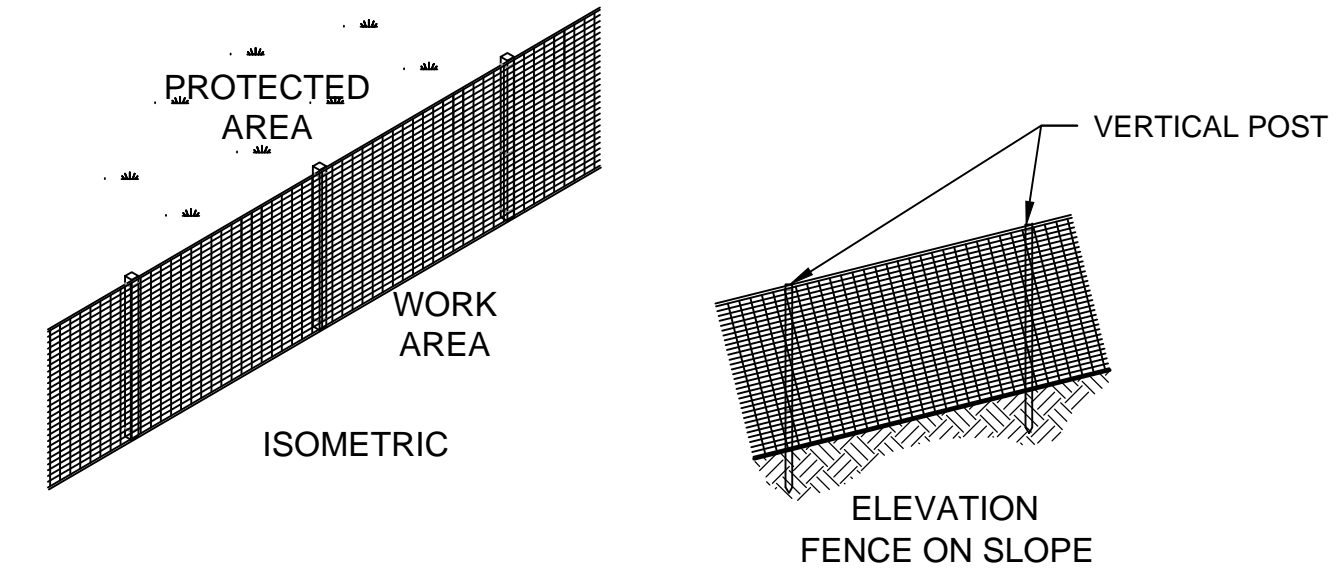
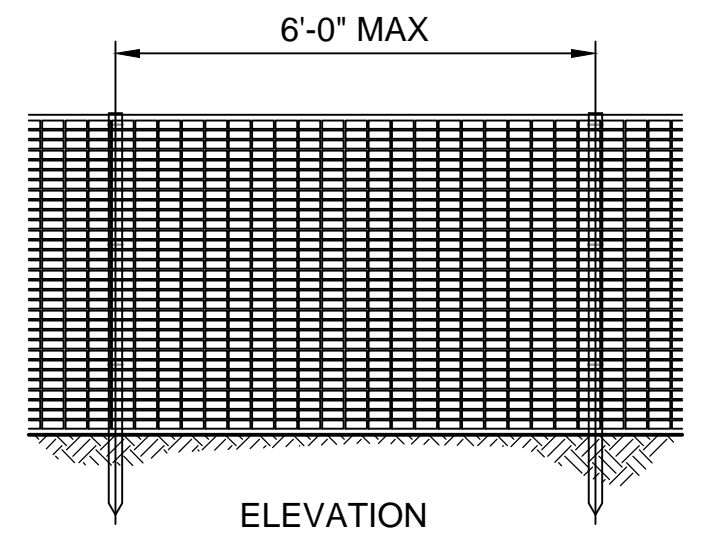
- NOTES:**
1. SIZE THE CATCH BASIN INSERT FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
  2. THE CATCH BASIN INSERT SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
  3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE CATCH BASIN INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
  4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).



**HIGH VISIBILITY FENCE**

DETAIL **3**  
SCALE: NTS  
SOURCE: 2016 WSDOT

- NOTES:**
1. THE CONTRACTOR IS TO PLACE THE FENCE AS CLOSE AS PRACTICAL TO THE EDGE OF PAVEMENT WHEN SHOWN ON DRAWINGS.



**TREE PROTECTION**

DETAIL **4**  
SCALE: NTS

- NOTES:**
1. NO PRUNING SHALL BE PERFORMED UNLESS UNDER THE DIRECTION OF AN ARBORIST.
  2. NO EQUIPMENT SHALL BE STORED OR OPERATED INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
  3. NO STORAGE OF MATERIALS SHALL OCCUR INSIDE THE PROTECTIVE FENCING.
  4. UNAUTHORIZED ACTIVITIES IN TREE PROTECTION AREA SHALL REQUIRE EVALUATION BY ARBORIST TO IDENTIFY IMPACTS AND MITIGATION REQUIRED.
  5. EXPOSED ROOTS: FOR ROOTS > 1" DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVED DAMAGED PORTION AND INFORM CITY ARBORIST.
  6. TREE PROTECTION FENCE TO BE CHAINLINK, WIRE MESH, OR WOODEN FENCE, 4 TO 6 FEET IN HEIGHT.

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCVTD-2012-Dstz=TB=Border  
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PLOT DATE: 6/28/2019 11:54 AM  
PLOT BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
REFERENCE 1"  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20

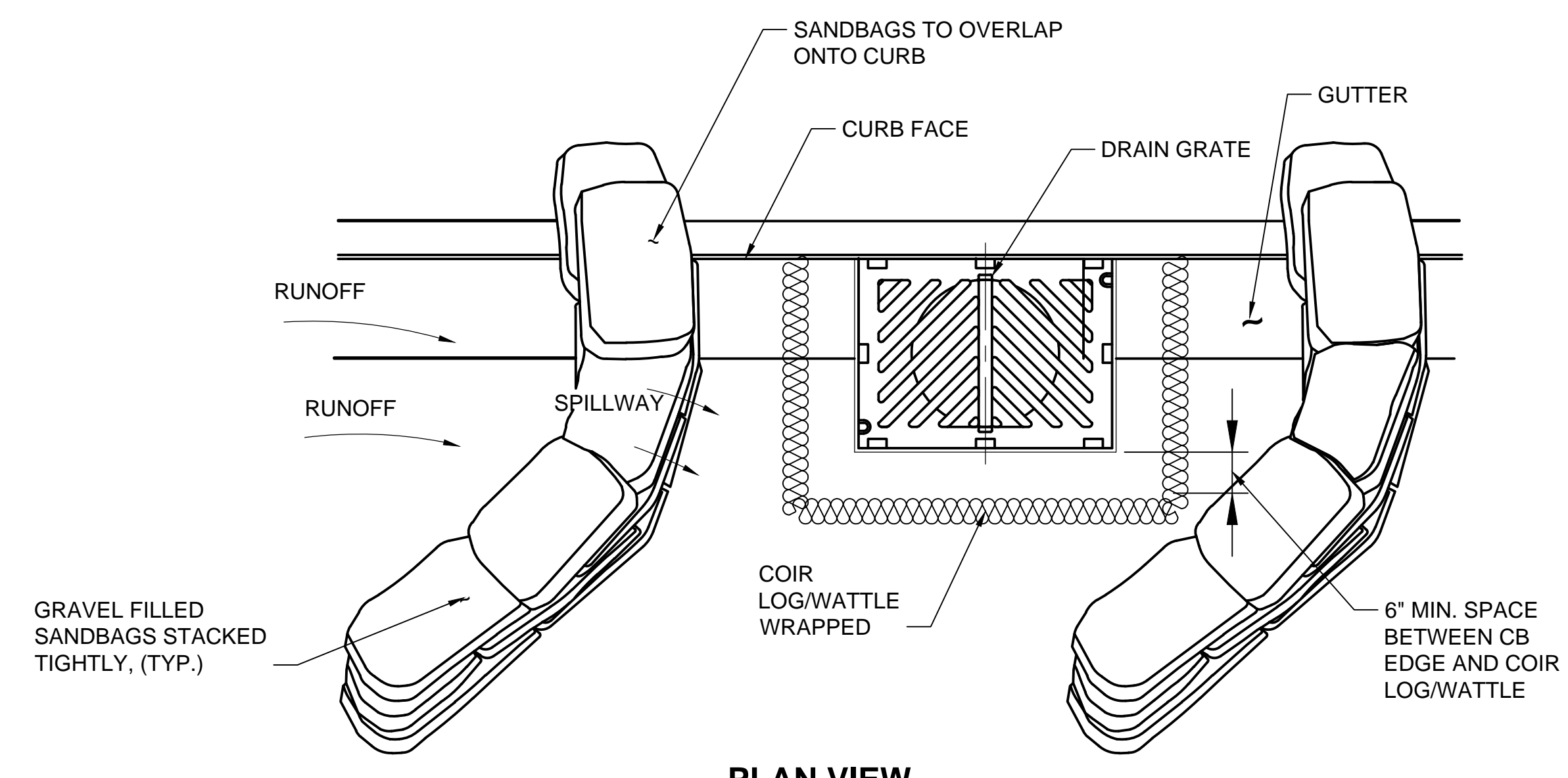
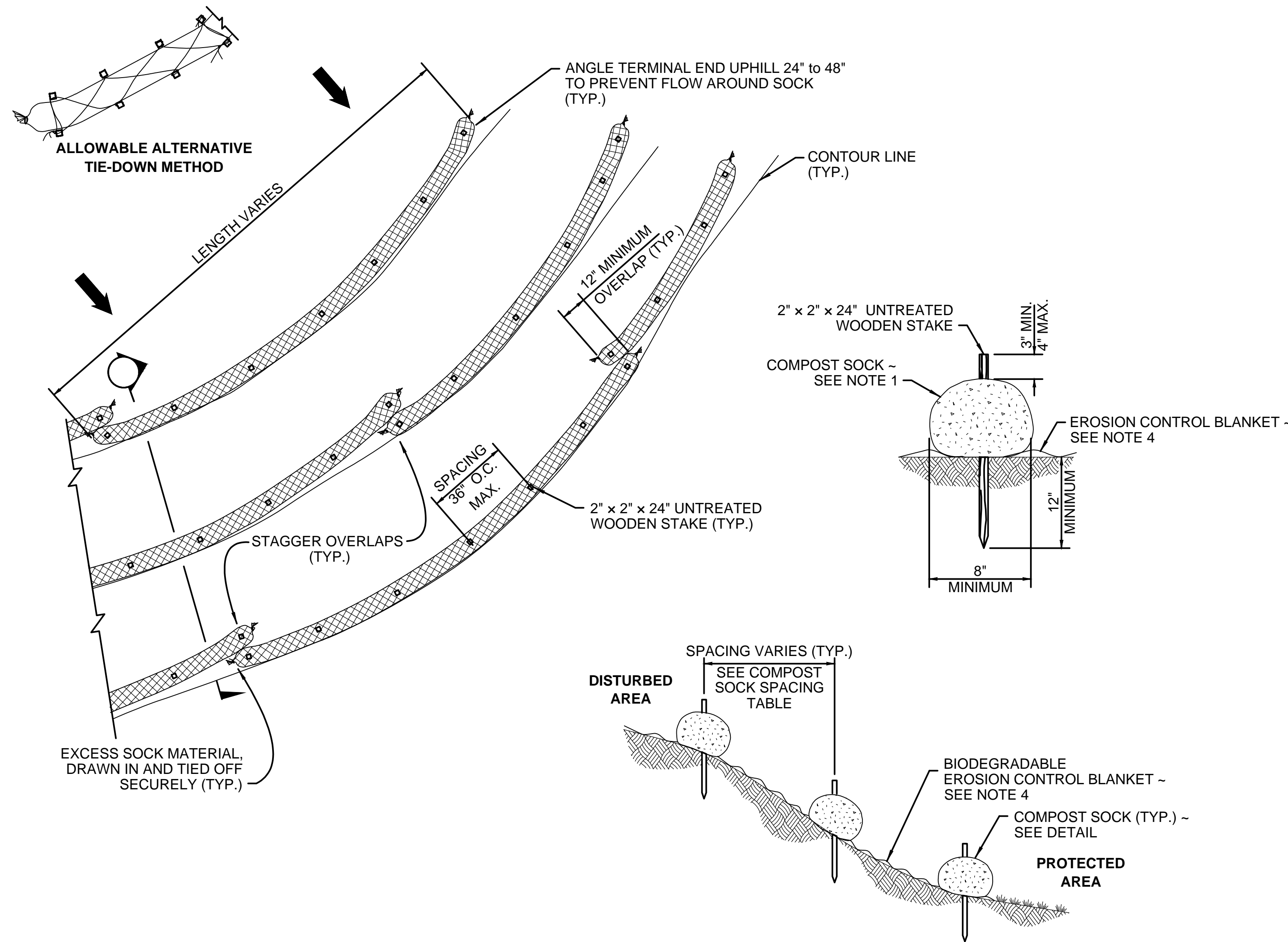


DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS

**TESC  
DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C012</b>
SHT NO / TOTAL	REV NO:





- NOTES:**
1. COMPOST SOCK SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(6).
  2. SECURELY KNOT EACH END OF COMPOST SOCK. OVERLAP ADJACENT COMPOST SOCK ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
  3. COMPOST TO BE DISPERSED ON SITE AS DETERMINED BY THE ENGINEER, WHEN VEGETATION COVERS THE SURFACE.
  4. IF EROSION CONTROL BLANKET IS SPECIFIED, PLACE COMPOST SOCK ON TOP OF BLANKET. SEE WSDOT STANDARD PLAN I-60.10.
  5. INSTALL COMPOST SOCK PERPENDICULAR TO FLOW, ALONG CONTOURS.
  6. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
  7. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).
  8. REFER TO WSDOT STANDARD SPECIFICATION 8-01.3(16) FOR REMOVAL.

8" DIAMETER COMPOST SOCK SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	10' - 0"
2H : 1V	20' - 0"
3H : 1V	30' - 0"
4H : 1V	40' - 0"

**COMPOST SOCK**  
**DETAIL** 1  
 SCALE: NTS C101

- 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 SHALL BE 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 BMP AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL SHALL BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**CURB & GUTTER**  
**BARRIER PROTECTION**  
**DETAIL** 2  
 SCALE: NTS C101

FOR REFERENCE ONLY

BORDER FILE EDITION: KCWTD-2012-Dstz=TB-Border  
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 PLOTTED BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



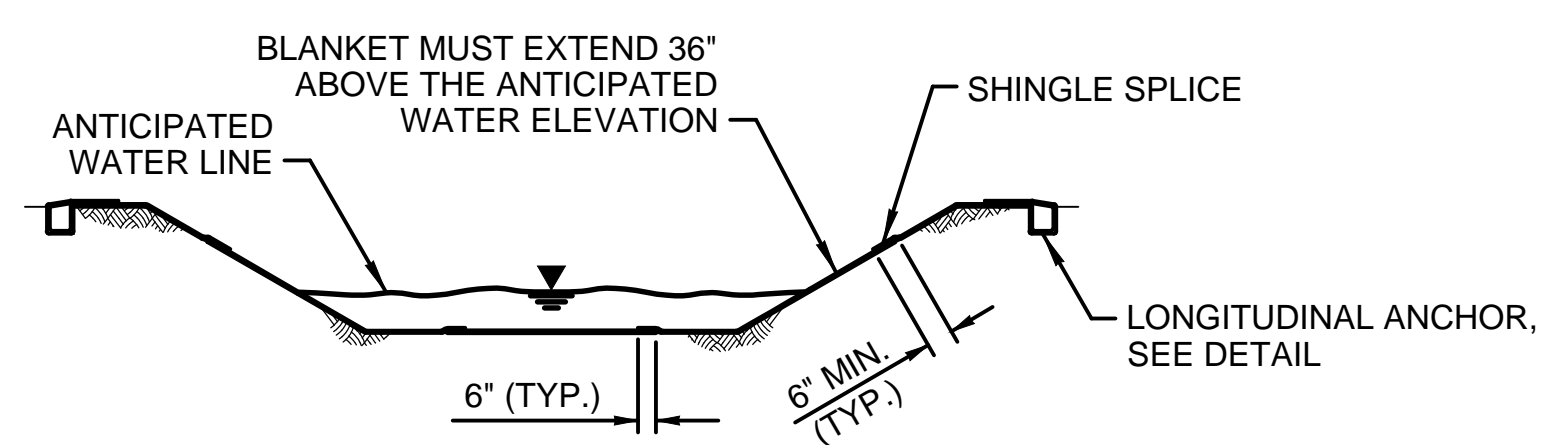
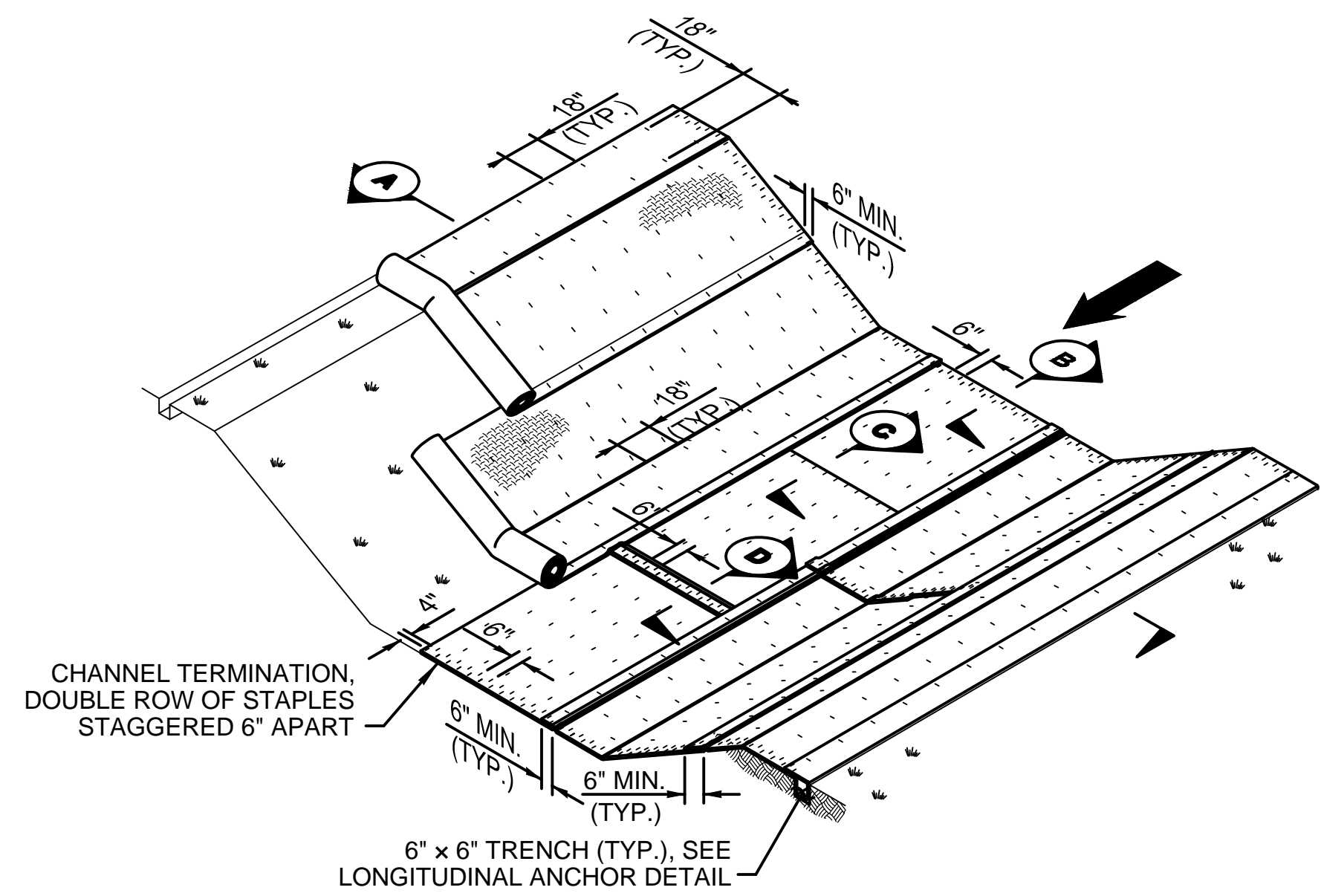
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ  
 SCALE: AS NOTED  
 REFERENCE 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20

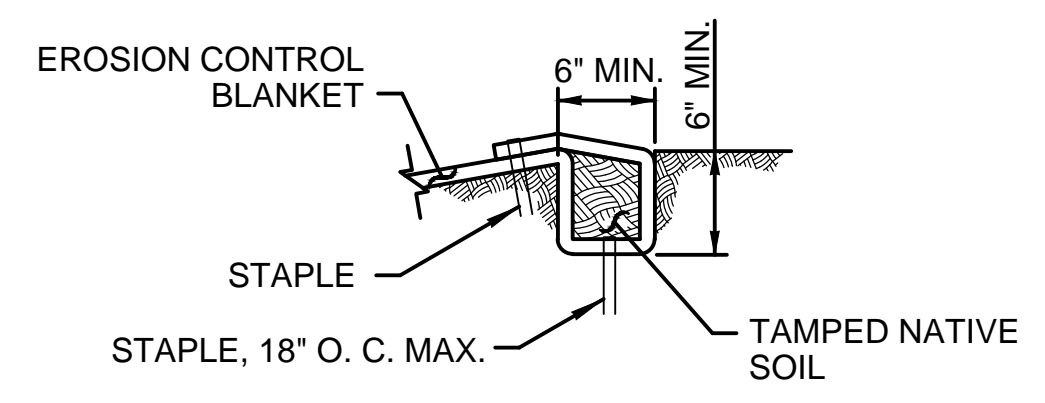
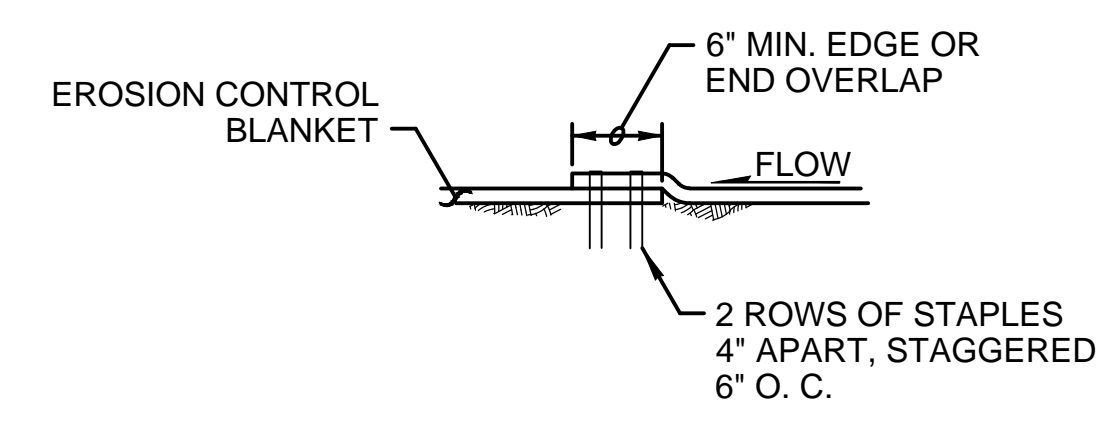
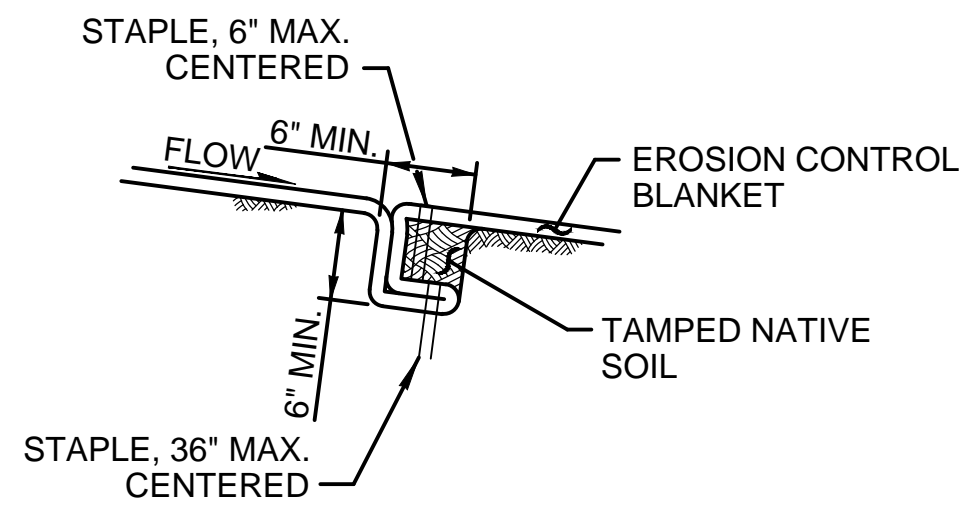
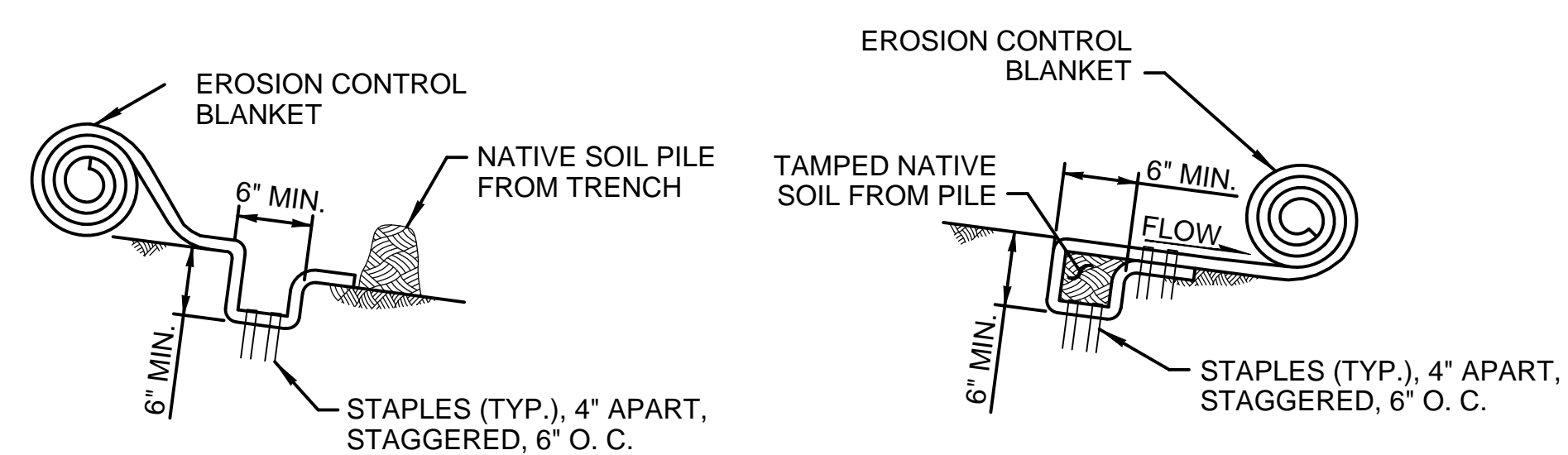


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**TESC**  
**DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>C013</b>	
SHT NO / TOTAL	REV NO:



- NOTES:**
- MORE THAN THE MINIMUM OF ONE FASTENER PER SQUARE YARD MAY BE REQUIRED DUE TO CONDITIONS SUCH AS BLANKET COMPOSITION, SOIL TYPE, SURFACE UNIFORMITY, AND FLOW VELOCITY.
  - INSTALL CHECK SLOTS PER MANUFACTURER'S RECOMMENDATIONS.
  - SEE WSDOT STANDARD SPECIFICATION 8-01.3(3) AND 9-14.5(2)
  - USE MANUFACTURER'S REQUIREMENTS. WHEN MANUFACTURER'S REQUIREMENTS ARE NOT PROVIDED, USE INSTALLATION REQUIREMENTS SHOWN ON STANDARD PLAN.
  - ADDITIONAL STAPLES MAY BE REQUIRED FOR HIGH FLOW EXPOSURE.
  - PREPARE SMOOTH SLOPE.
  - AMEND SOIL AND SEED, AS SPECIFIED.
  - DIG ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
  - SECURE BLANKET IN ANCHOR TRENCH, STAKING OR STAPLING BLANKET AS SHOWN.
  - REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
  - ROLL BLANKET PARALLEL TO THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
  - STAKE OR STAPLE BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.



BIODEGRADABLE EROSION CONTROL BLANKET

DETAIL 1  
SCALE: NTS (C101)

**FOR REFERENCE ONLY**

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PLOT BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



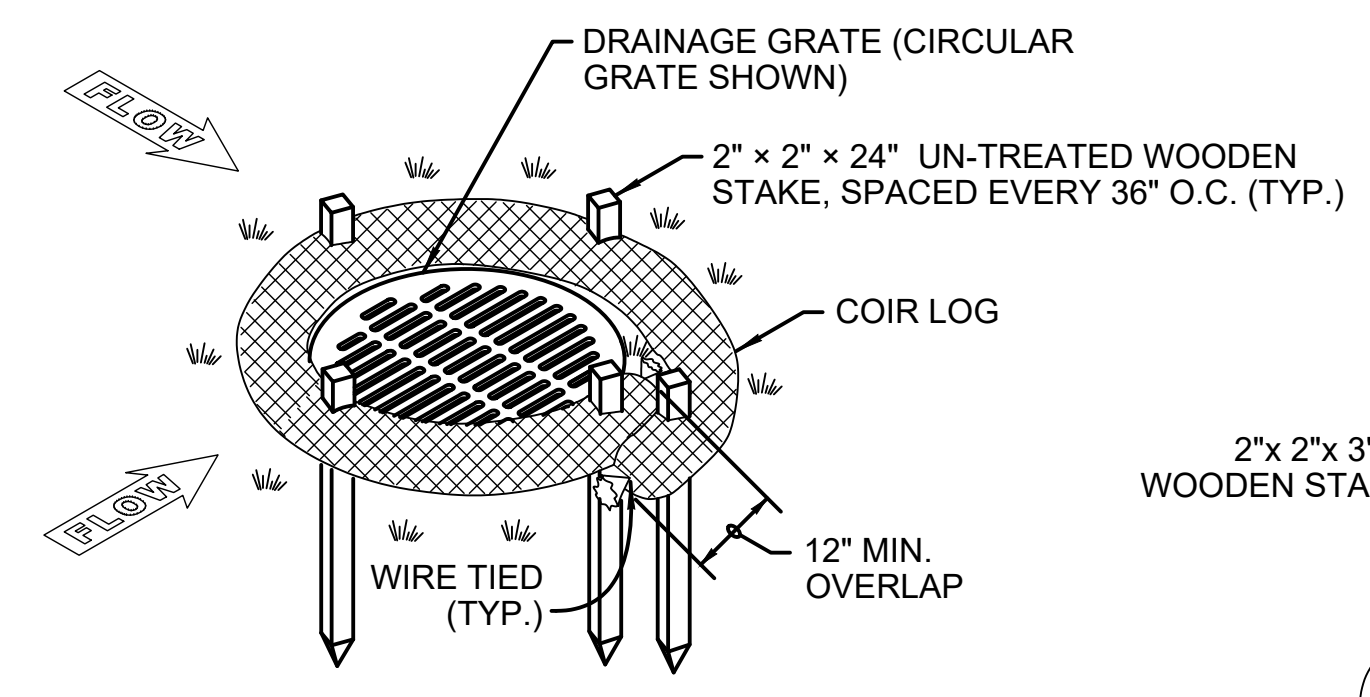
**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ  
SCALE: AS NOTED  
REFERENCE 1"  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**TESC  
DETAILS**

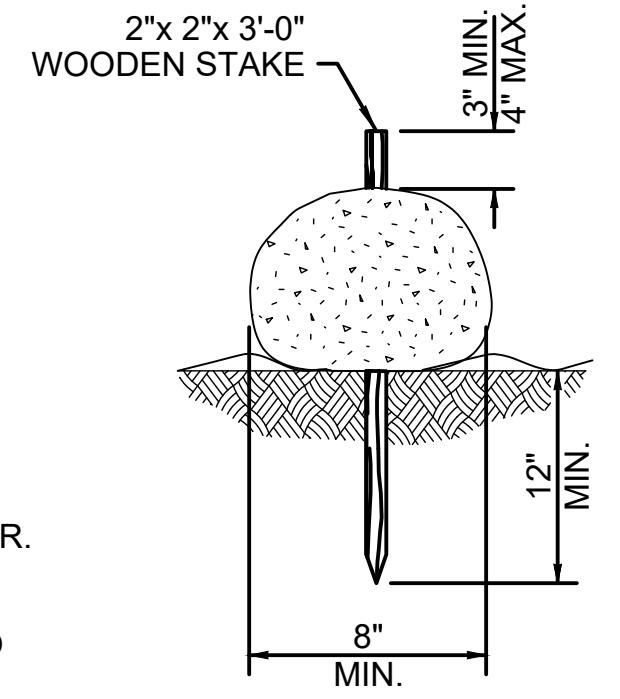
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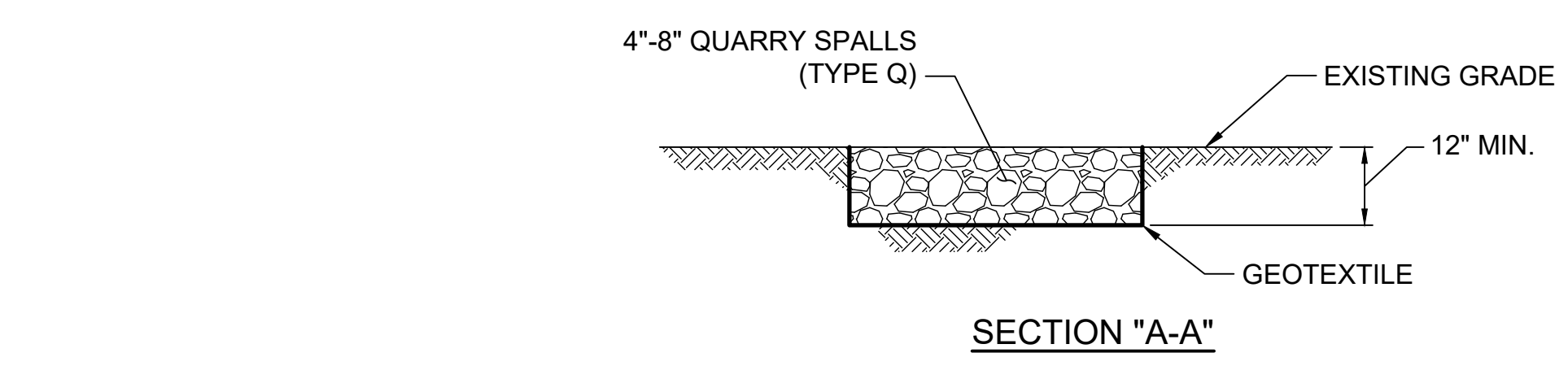
- NOTES:**
1. SECURELY KNOT EACH END OF LOG. OVERLAP ADJACENT LOG ENDS 12" BEHIND ONE-ANOTHER AND SECURELY TIE TOGETHER.
  2. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
  3. LOG SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCED RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.

**YARD INLET PROTECTION**

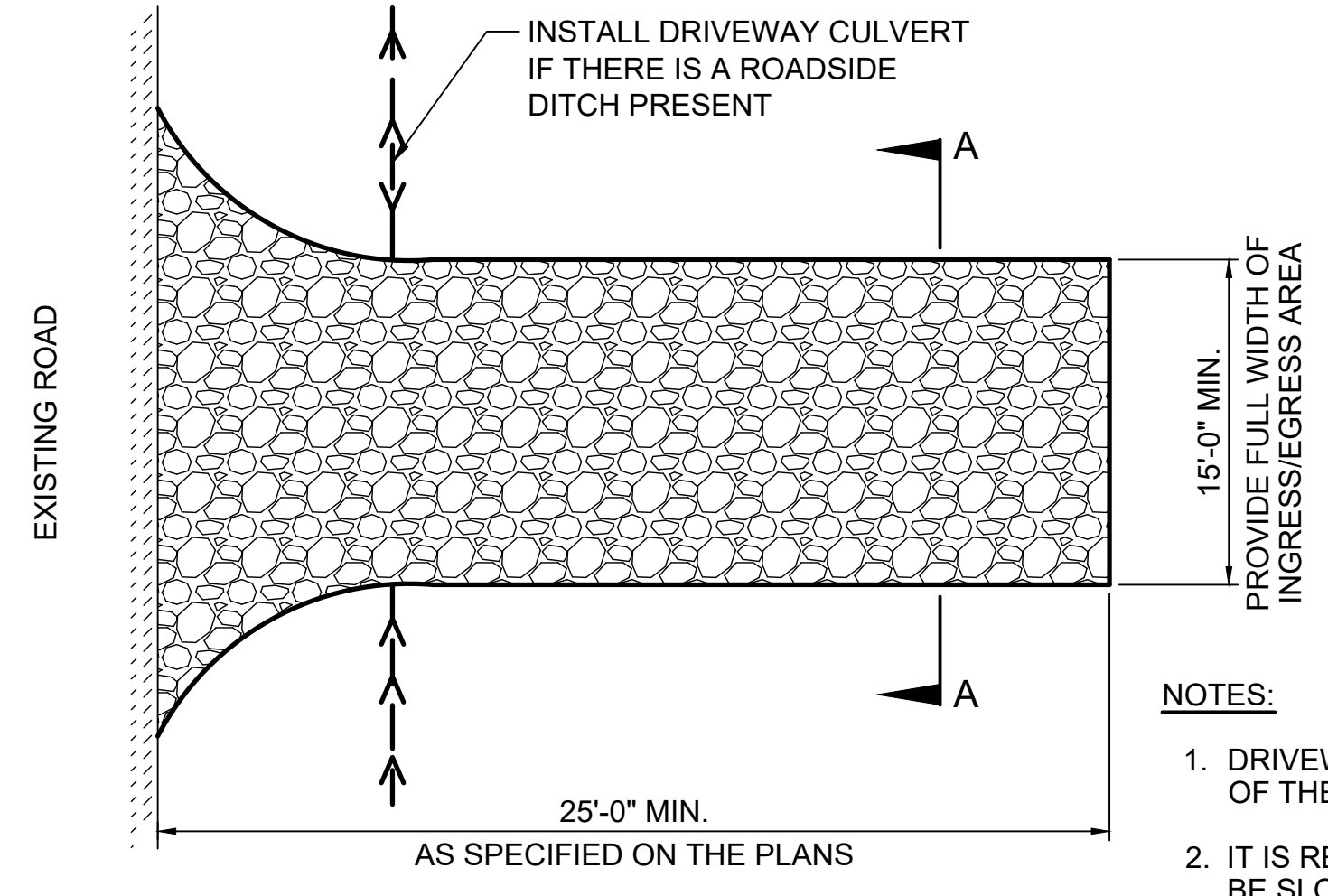
DETAIL 1  
SCALE: NTS  
C101



TYPICAL SECTION



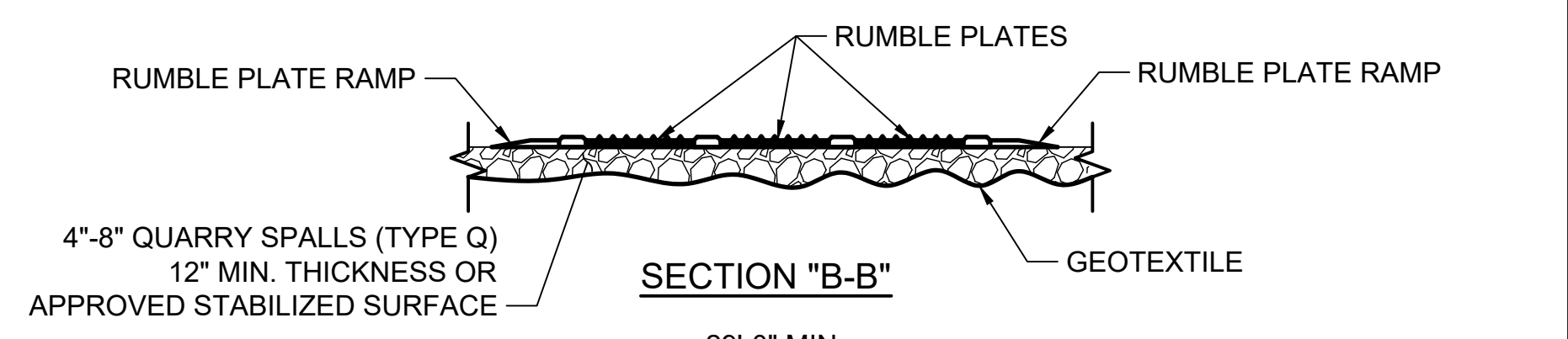
SECTION "A-A"



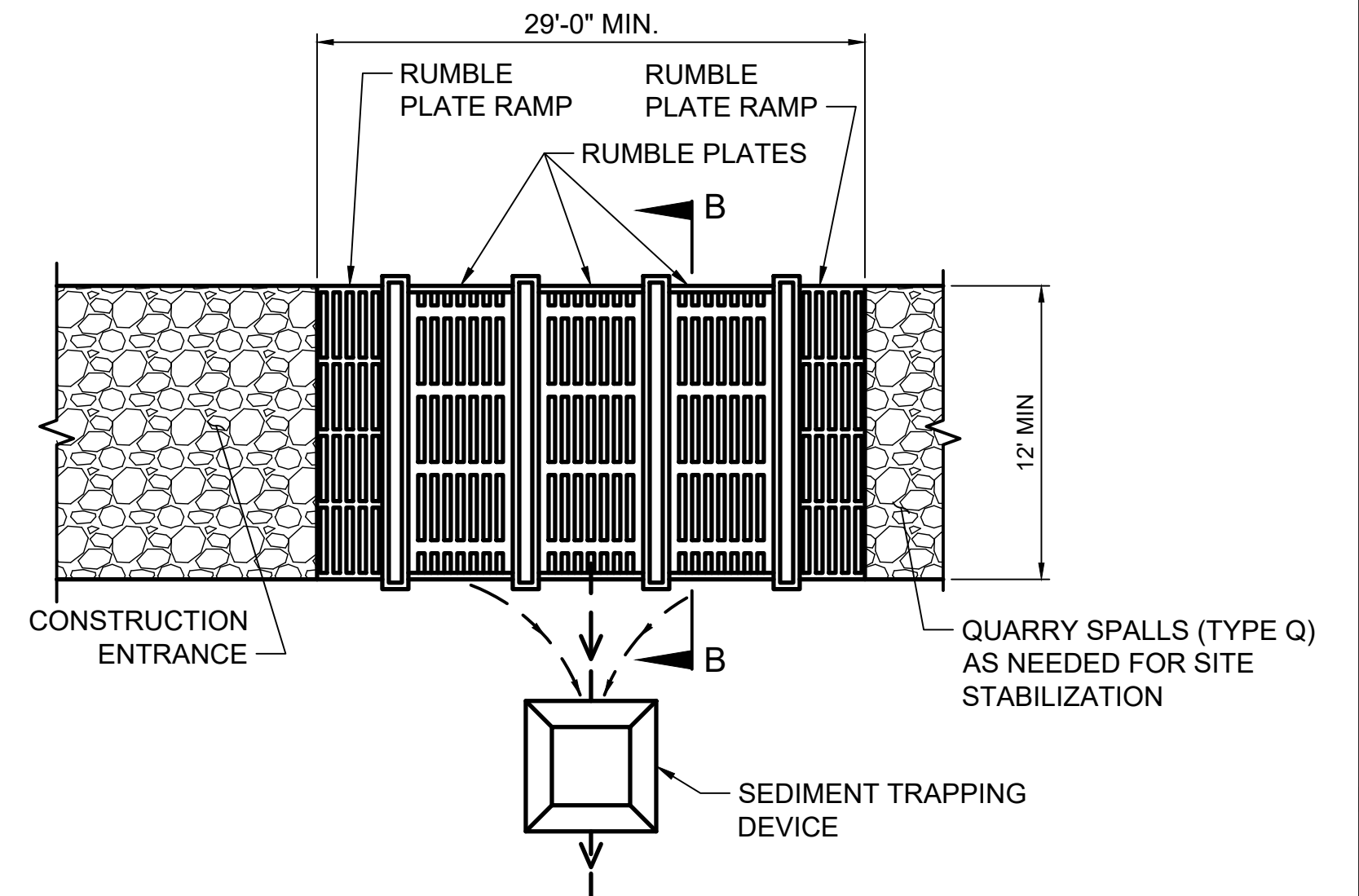
- NOTES:**
1. DRIVEWAY SHALL MEET THE REQUIREMENTS OF THE PERMITTING AGENCY.
  2. IT IS RECOMMENDED THAT THE ENTRANCE BE SLOPED SO THAT THE RUNOFF DRAINS OFF THE PAD.

**CONSTRUCTION ENTRANCE**

DETAIL 2  
SCALE: NTS  
C101



SECTION "B-B"



**CORRUGATED STEEL RUMBLE PLATE**

DETAIL 3  
SCALE: NTS  
C101

**FOR REFERENCE ONLY**

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PLOT BY: E.ubinn, john

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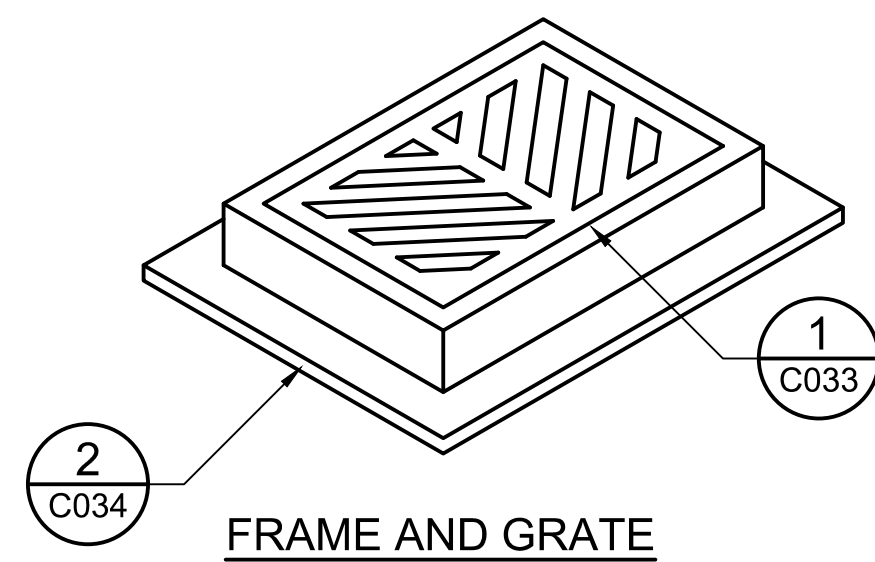
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INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN:  
R. LUDWIG  
SCALE:  
AS NOTED  
PROJECT ENGINEER:  
J. CHAE  
DESIGN APPROVAL:  
R. BROWNE  
PROJECT ACCEPTANCE:  
S. YILDIZ  
REFERENCE  
FACILITY NUMBER:  
333  
CONTRACT NO:  
C01339C20

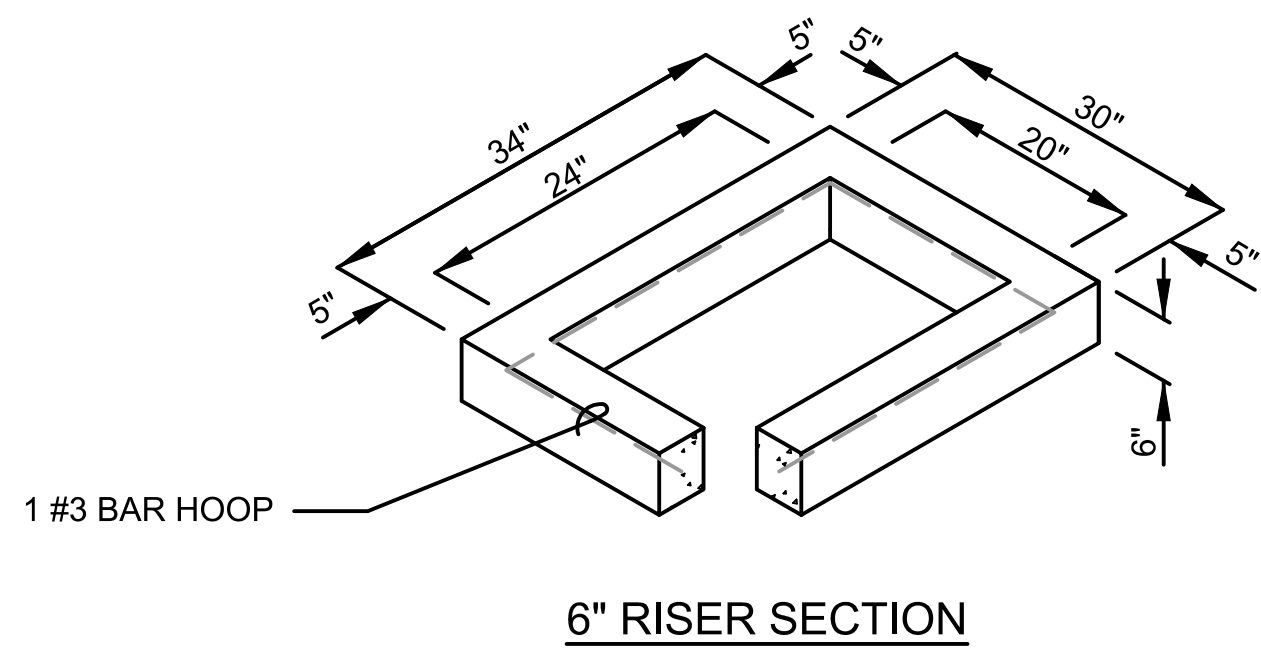


DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**TESC**  
**DETAILS**

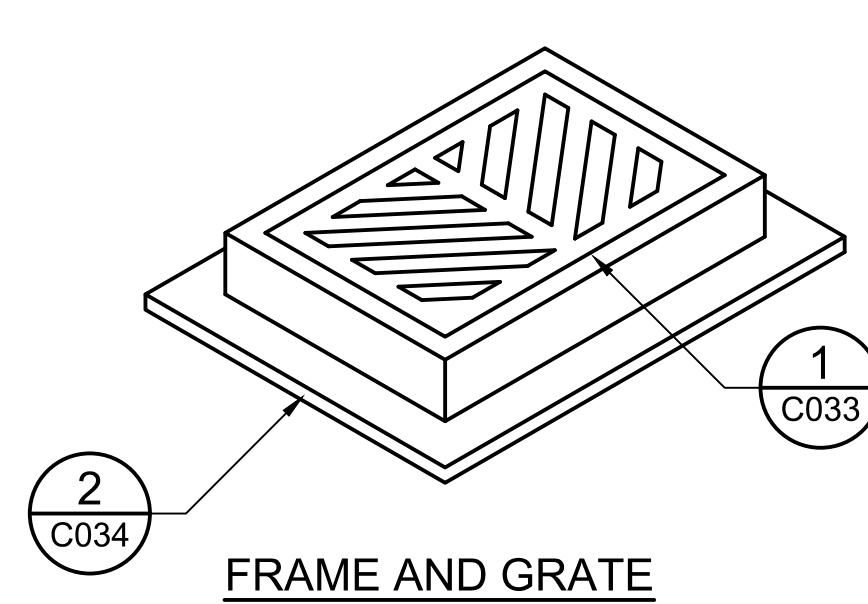
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PROJECT FILE NO.:	DRAWING NO.:	<b>C015</b>
SHT NO / TOTAL	TOTAL	REV NO.
100 / 393		



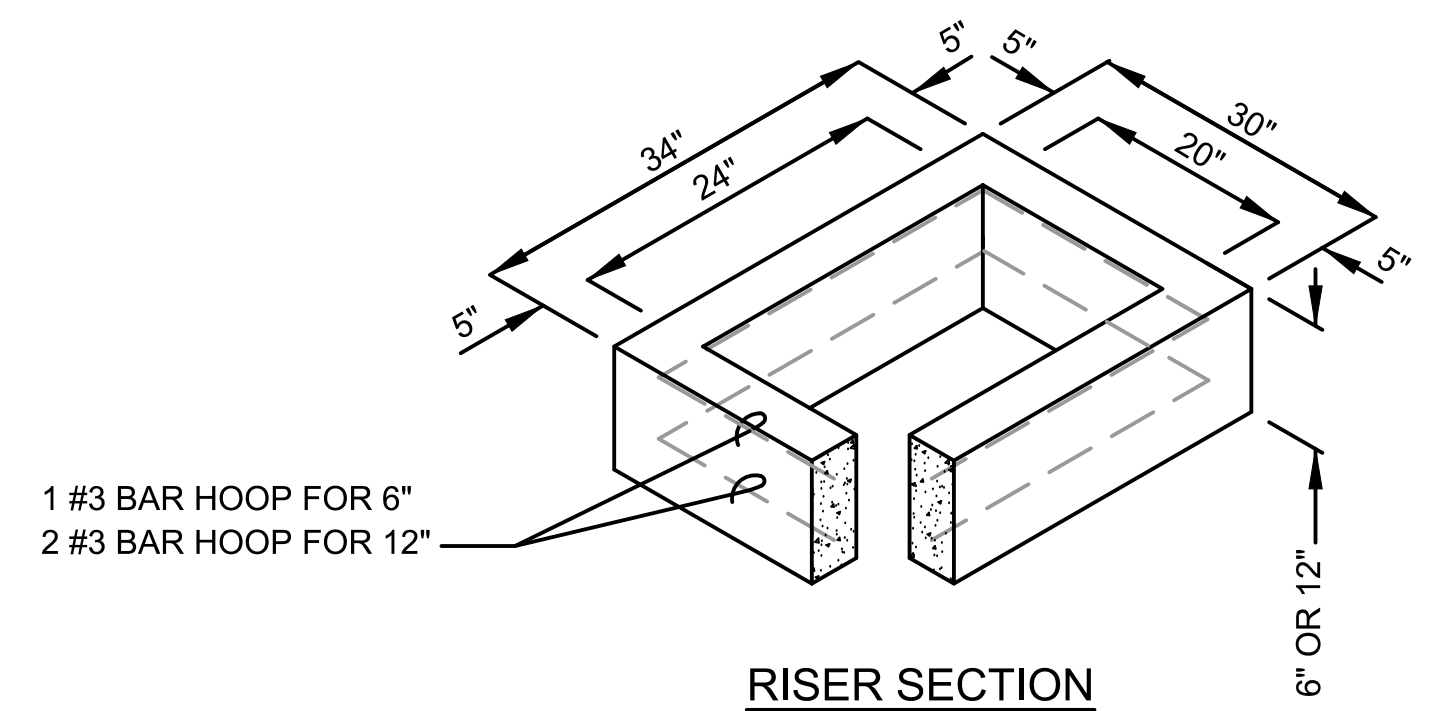
FRAME AND GRATE



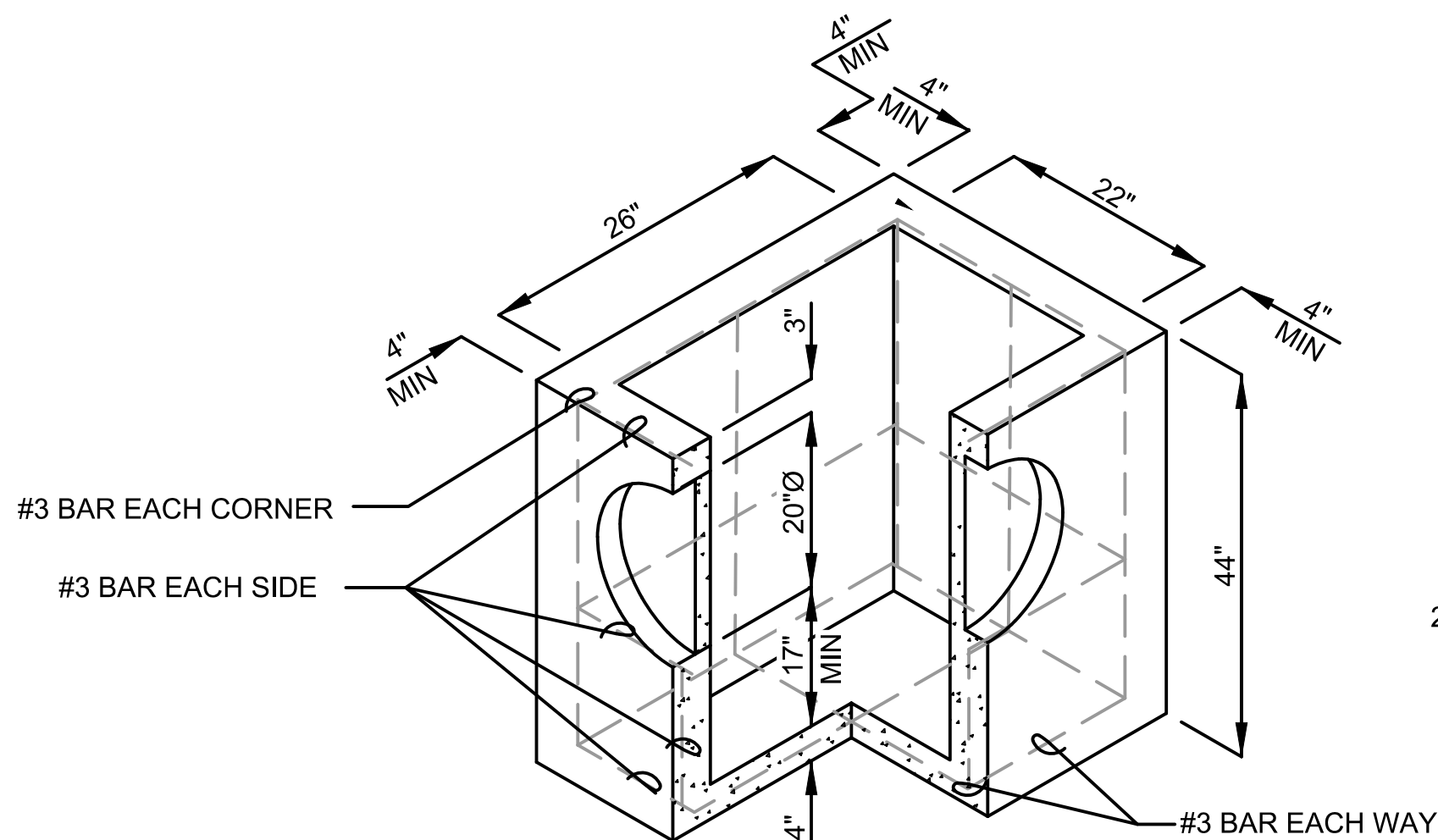
6" RISER SECTION



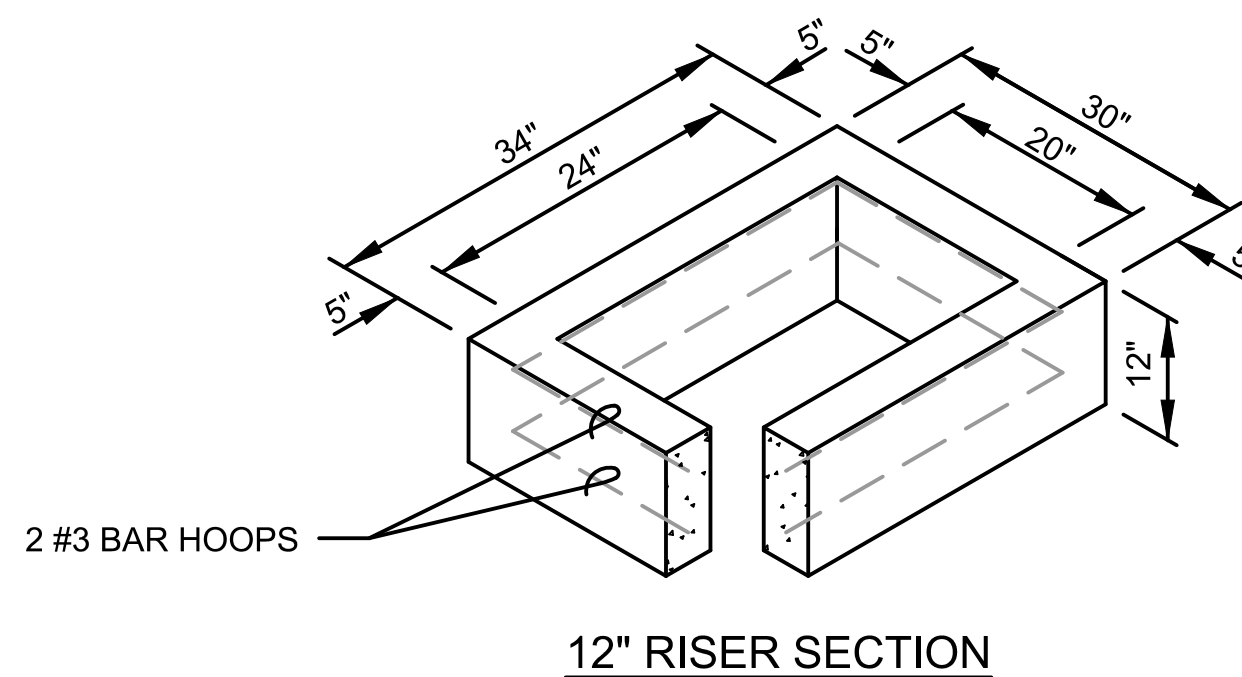
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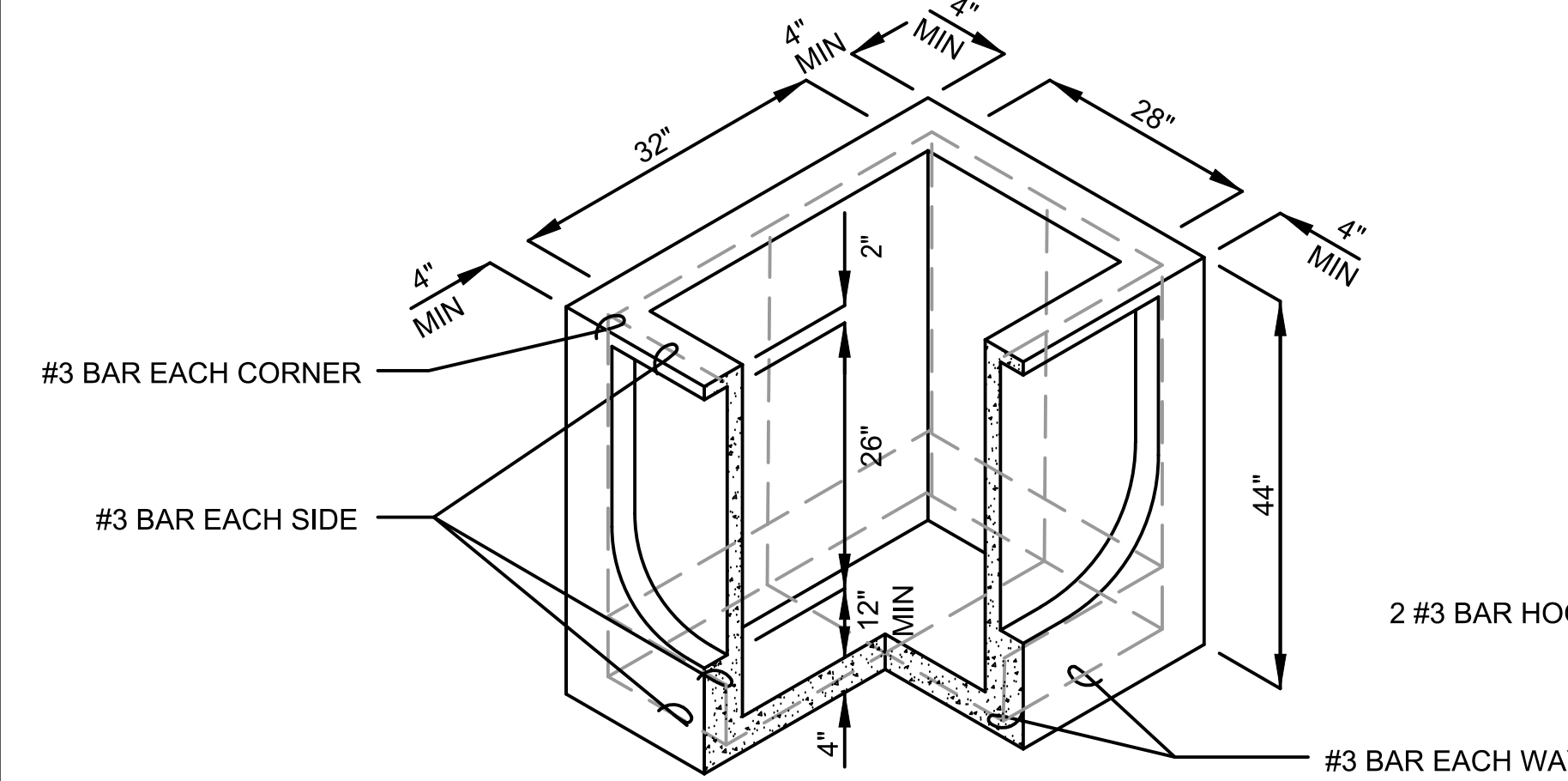
RISER SECTION



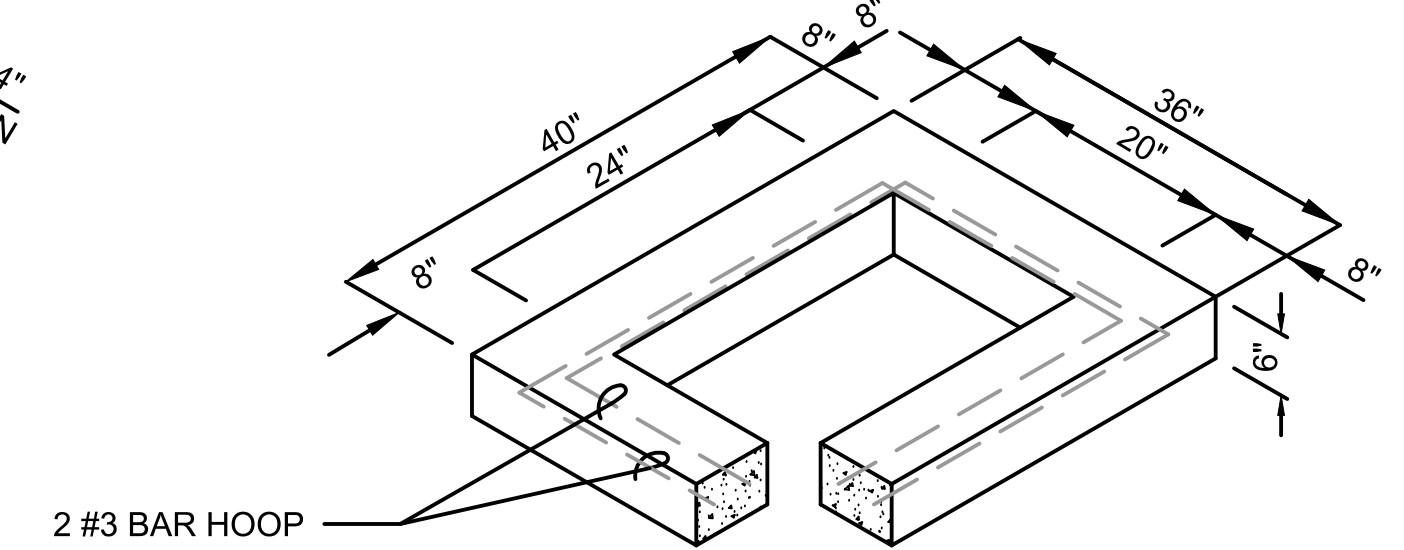
PRECAST BASE SECTION  
(MEASUREMENT AT THE TOP OF THE BASE)



12" RISER SECTION



PRECAST BASE SECTION  
(MEASUREMENT AT THE TOP OF THE BASE)



6" REDUCING SECTION

NOTES :

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'.
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2 INCH PER FOOT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62IE. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DRAWING B-5.60-01.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 1  
DETAIL  
SCALE: NTS  
SOURCE: 2016 KCDTRSD

NOTES :

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2 INCH PER FOOT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62IE. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 1L  
DETAIL  
SCALE: NTS  
SOURCE: 2016 KCDTRSD

**FOR REFERENCE ONLY**

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PLOT BY: Eugin, john

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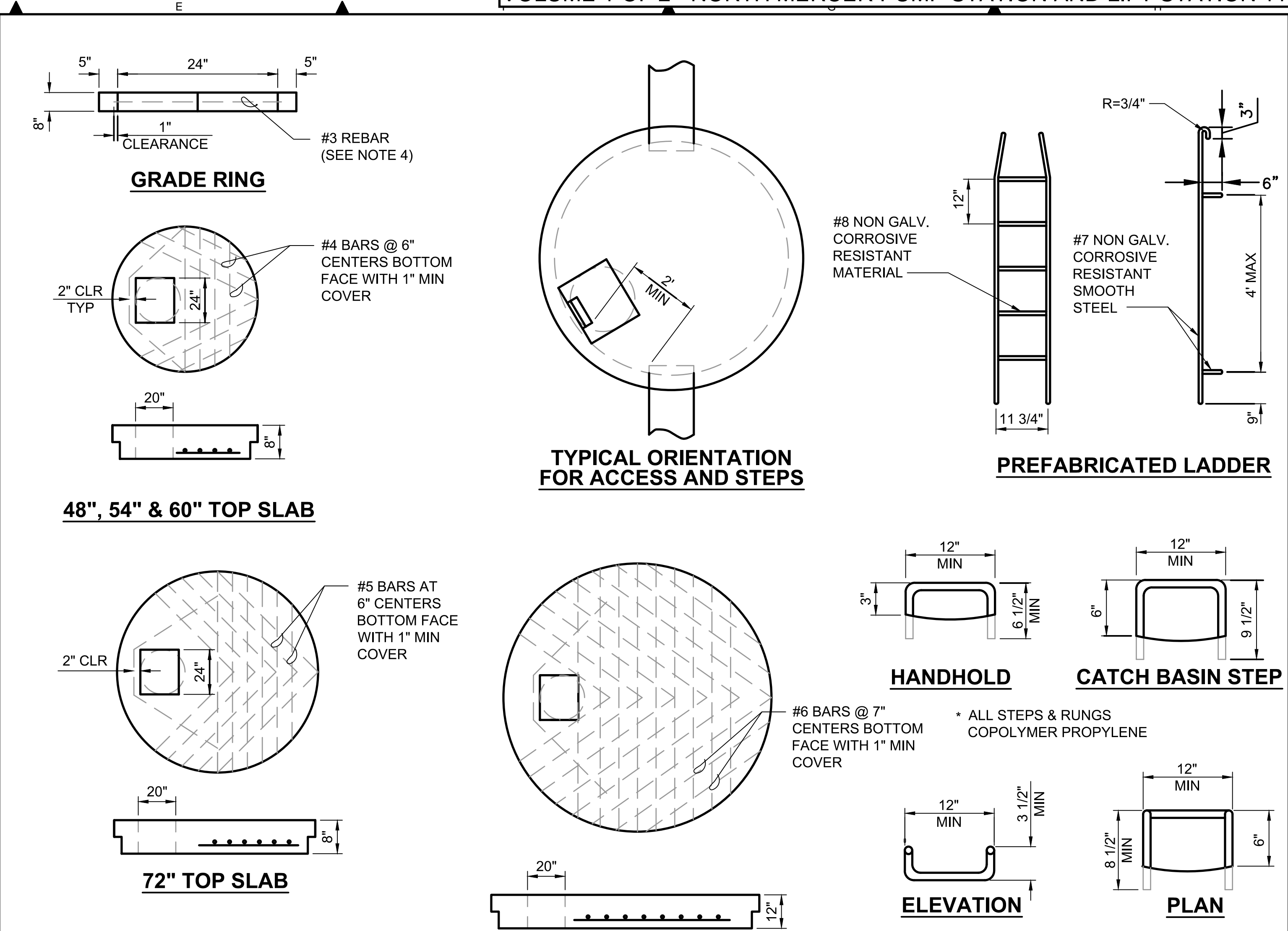
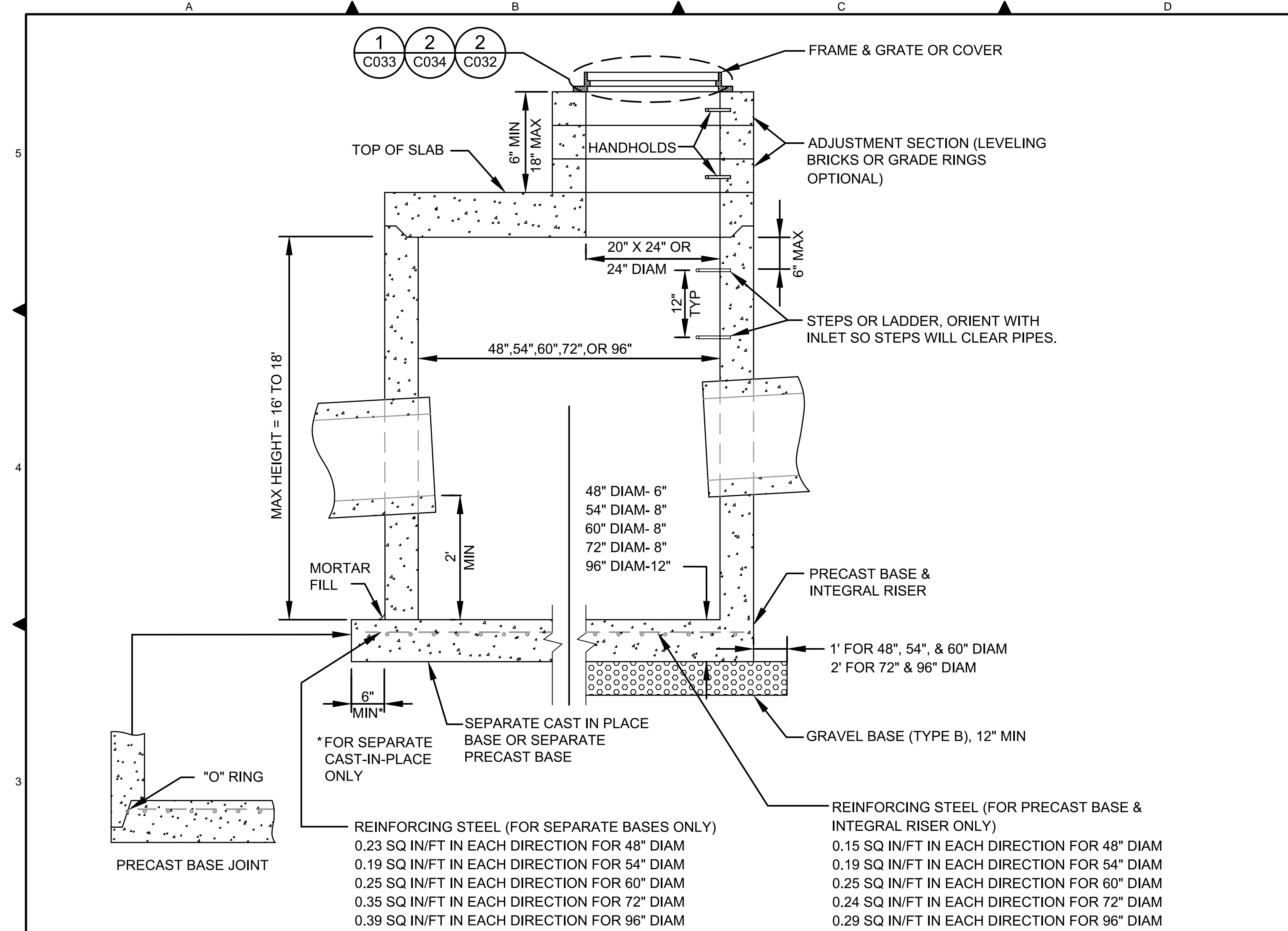
PRELIMINARY ISSUE DRAWING  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ  
SCALE: AS NOTED  
REFERENCE  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE  
DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: C031
SHT NO / TOTAL: 104 / 393	REV NO:



- NOTES:**
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
  - HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MINIMUM CLEARANCE. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MINIMUM OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE MANHOLE.
  - ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
  - PRECAST BASES SHALL BE FURNISHED WITH CUTOUPS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2" MINIMUM. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE PROJECT REPRESENTATIVE.
  - KNOCKOUT OR CUTOUP HOLE SIZE SHALL EQUAL PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS. MAXIMUM HOLE SIZE SHALL BE 36" FOR 48" CATCH BASIN, 42" FOR 54" CATCH BASIN, 48" FOR 60" CATCH BASIN, 60" FOR 72" CATCH BASIN, 84" FOR 96" CATCH BASIN MINIMUM DISTANCE BETWEEN HOLES SHALL BE 8" FOR 48", 54", AND 60" CATCH BASIN; 12" FOR 72" AND 96" CATCH BASIN.
  - CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS, AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621E. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
  - ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.
  - MINIMUM SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
  - FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS. SEE FIG. 7-006.
  - SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SEC. 7-05.3 FOR JOINT REQUIREMENTS.
  - SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

- NOTES:**
- PROPRIETARY CATCH BASIN HANDHOLDS AND STEPS MAY BE ACCEPTABLE, PROVIDED THAT THEY CONFORM TO SEC. R, ASTM C478, AASHTO M-199 AND MEET ALL WISHA REQUIREMENTS.
  - CATCH BASIN STEP/HANDHOLD LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY CATCH BASIN SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A LEG IS PROHIBITED.
  - HANDHOLDS AND STEPS SHALL HAVE "DROP" RUNGS AS SHOWN ON DETAIL OR PROTUBERANCES TO PREVENT SIDEWAYS SLIP.
  - SLAB OPENING MAY BE 24" x 20" OR 24" DIAMETER.
  - AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.012 SQUARE INCH PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497.
  - LADDERS OR STEPS SHALL EXTEND TO WITHIN 16" OF BOTTOM OF CATCH BASIN.
  - HANGING LADDERS SHALL BE PERMANENTLY FASTENED AT TOP BY HANGING ON STEP OR BY BOLTING OR EMBEDDING IN CONCRETE. EACH SHALL BE EMBEDDED AT BOTTOM IN BASE.
  - ADDITIONAL SAFETY FEATURES MAY BE REQUIRED IN VERY DEEP OR UNUSUAL STRUCTURES.
  - SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

**CATCH BASIN TYPE 2 DETAILS**

**DETAIL 2**  
SCALE: NTS  
SOURCE: 2017 KCDTRSD

**FOR REFERENCE ONLY**

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NO	REVISION DESCRIPTION	BY	APVD	DATE



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**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

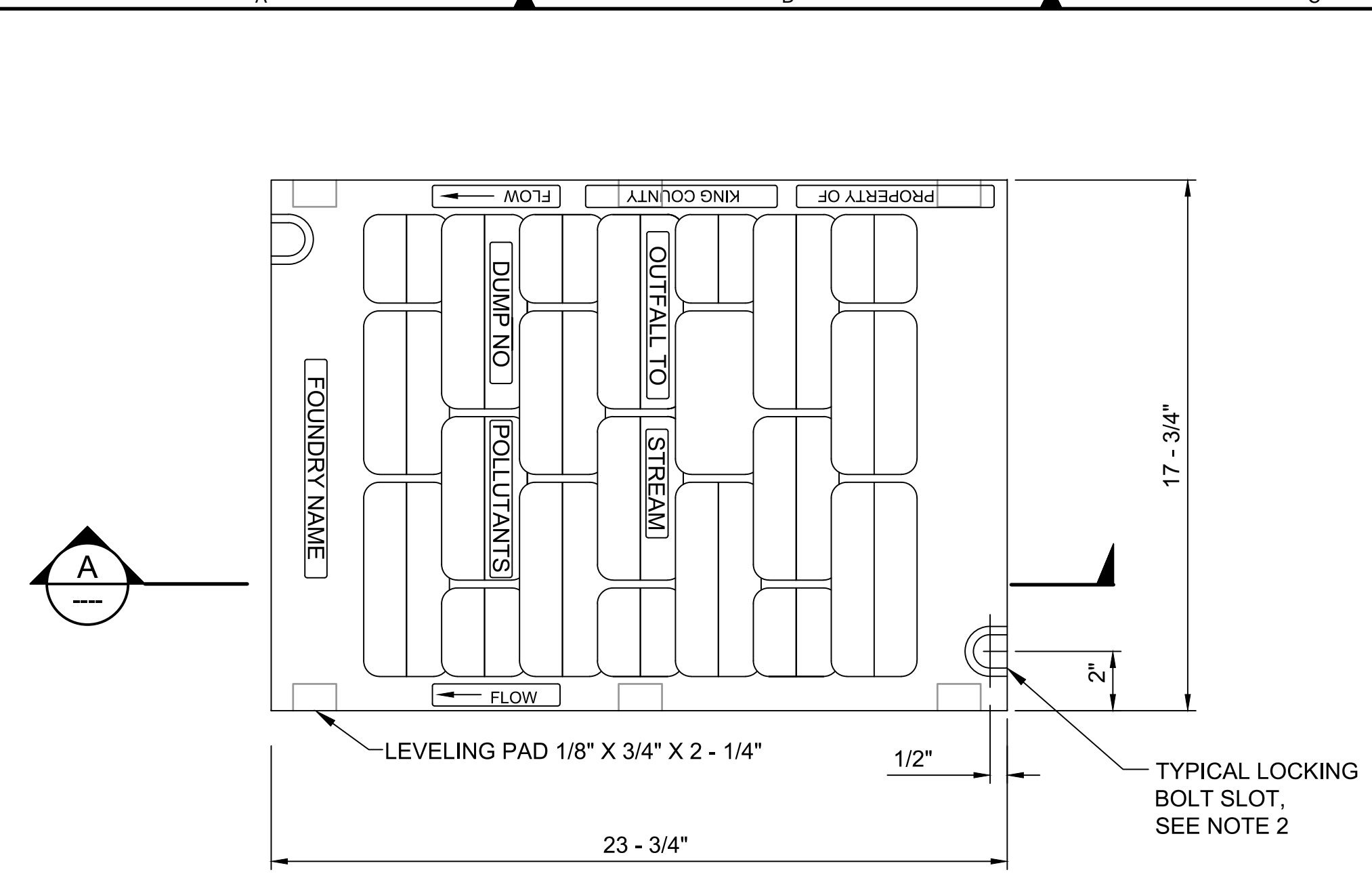
DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
REFERENCE  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20

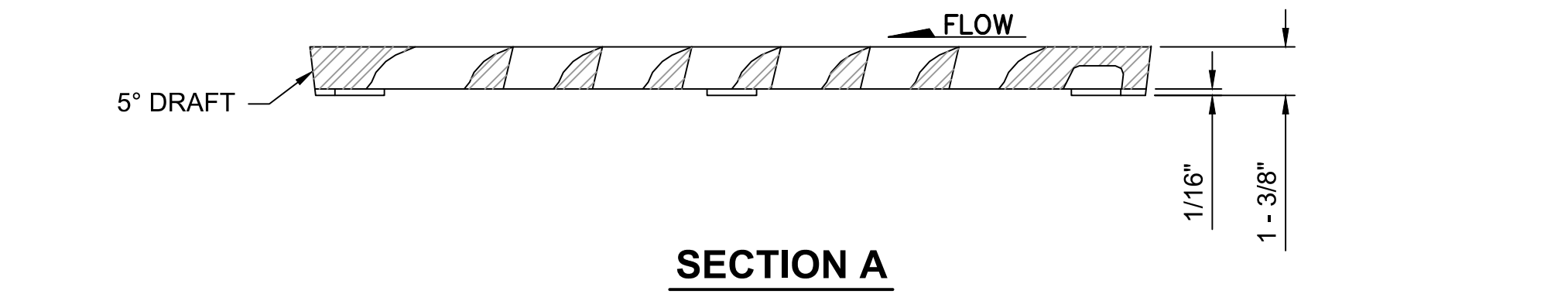


DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE**  
**DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: C032
SHT NO / TOTAL: 105 / 393	REV NO:



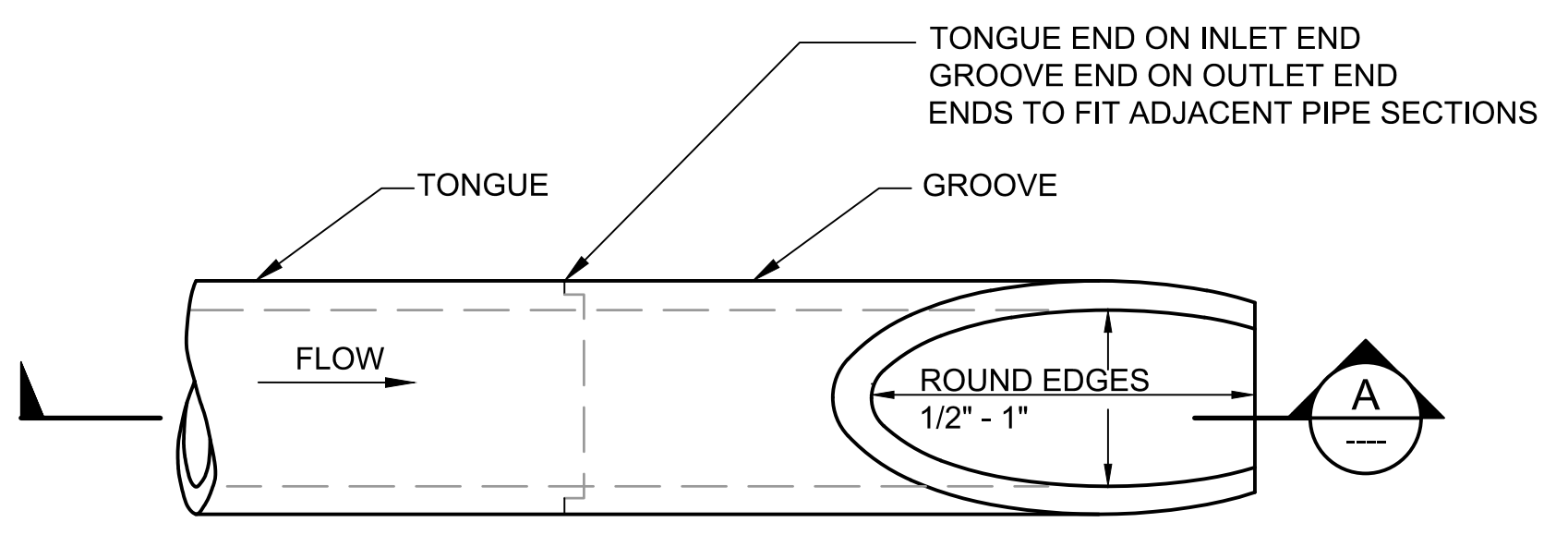
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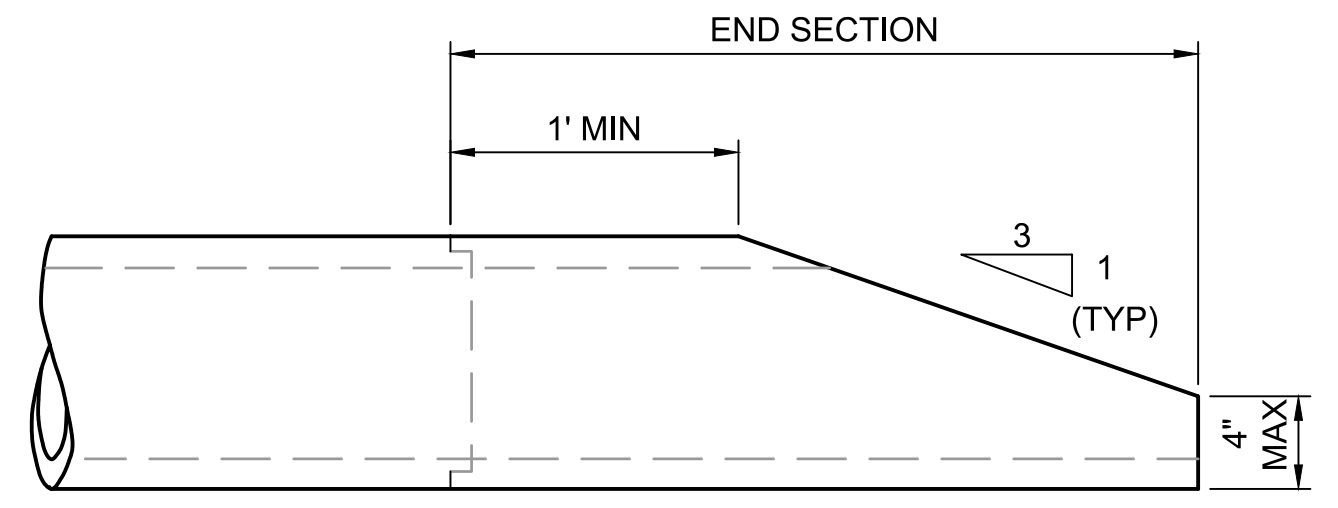
**SECTION A**

- NOTES:**
1. SELF-LOCK VANED GRATE MANUFACTURER SUBJECT TO APPROVAL BY PROJECT REPRESENTATIVE.
  2. USE WITH TWO LOCKING BOLTS 5/8 INCH -11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 INCH LONG. SLOTS FORMED AND RECESSED TO FIT LOCKING BOLTS.
  3. MATERIAL SHALL BE DUCTILE IRON ASTM A536 GRADE 80-55-06.
  4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
  5. THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
  6. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

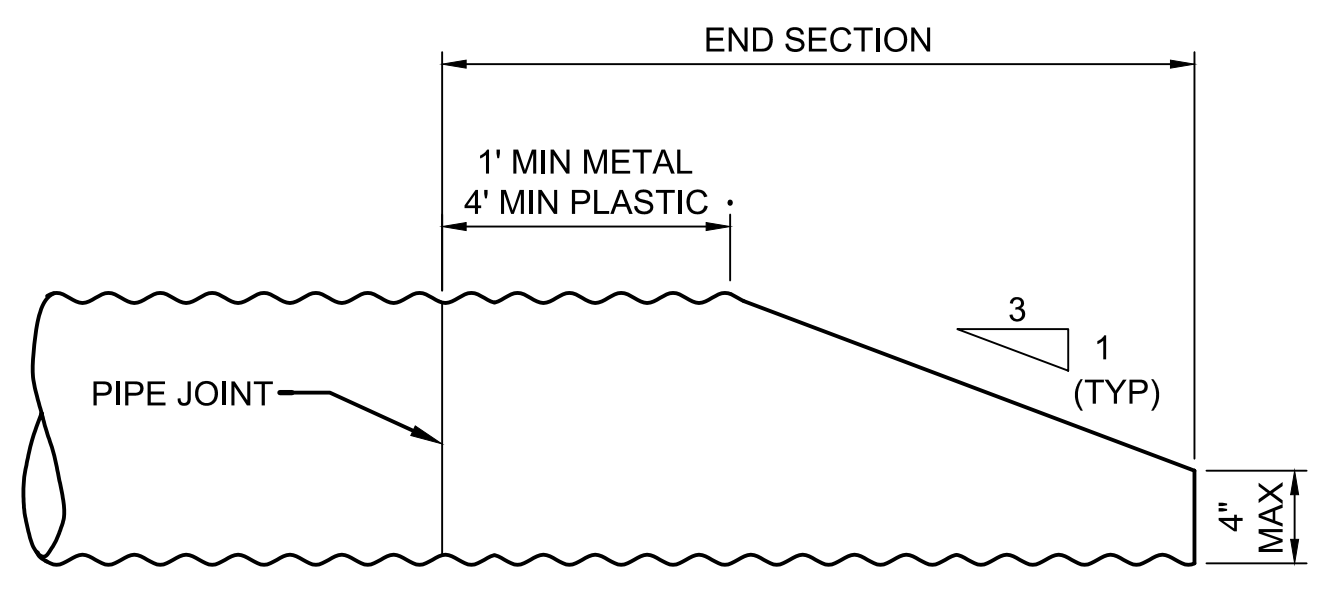
**VANED GRATE**  
**DETAIL** 1  
 SCALE: NTS  
 SOURCE: 2017 KCDTRSD



**PLAN**



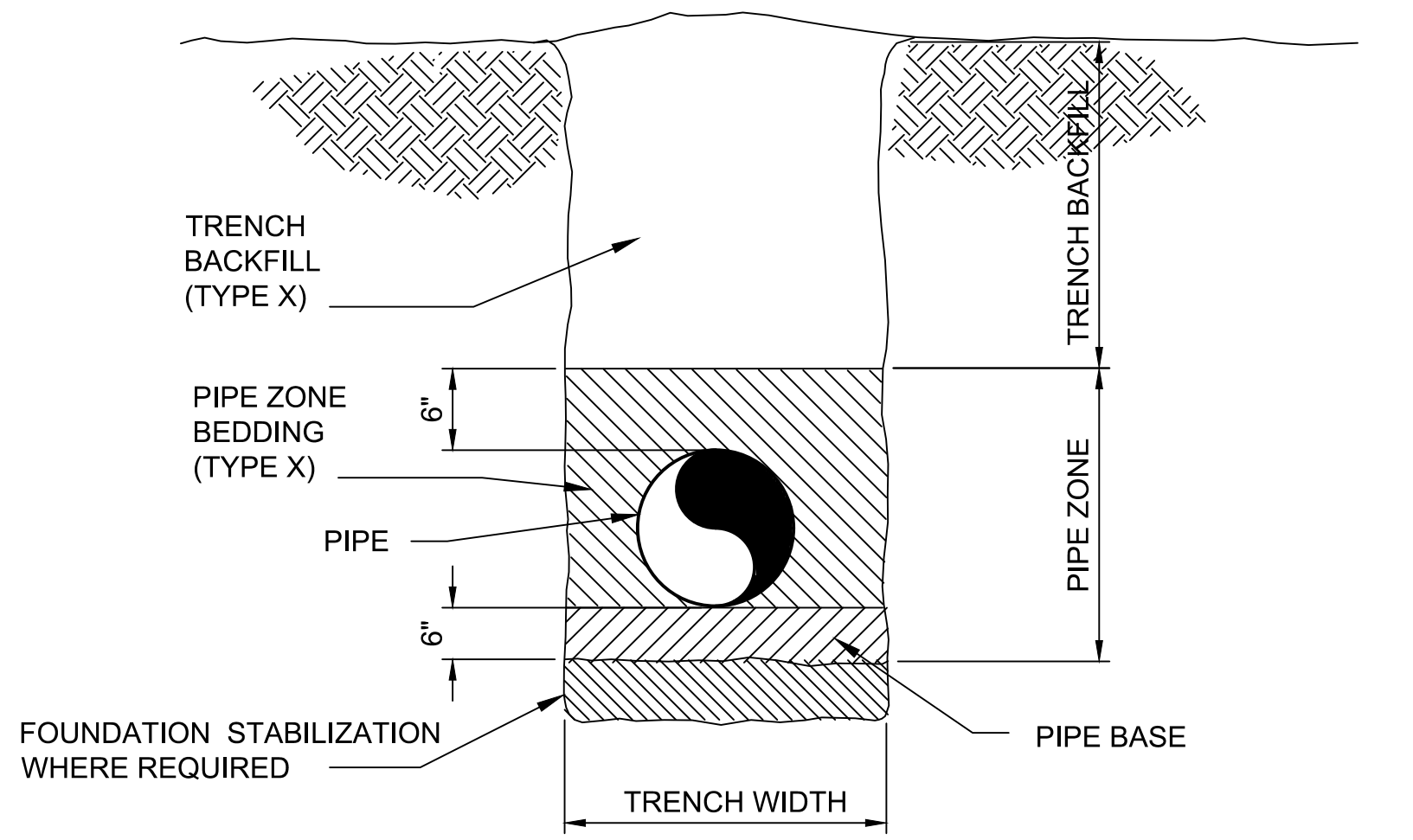
**SECTION A**  
**CONCRETE PIPE**



**METAL & PLASTIC PIPE**

- NOTES:**
1. SIDE SLOPE SHALL BE GRADED TO MATCH THE BEVELED PIPE END.
  2. PIPE SHALL BE BEVELED TO MATCH SLOPE IF SLOPE DIFFERS FROM 3:1.
  3. PIPE SHALL BE ROTATED TO CONFORM TO SLOPE WHEN ON SKEW.

**BEVELED END PIPE SECTION**  
**DETAIL** 2  
 SCALE: NTS  
 SOURCE: 2017 KCDTRSD



**STORM DRAINAGE**  
**PIPE ZONE BEDDING AND BACKFILL**

**DETAIL** 3  
 SCALE: NTS  
 SOURCE: 2010 KCDNR&PWTD

**FOR REFERENCE ONLY**

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NO	REVISION DESCRIPTION	BY	APVD	DATE



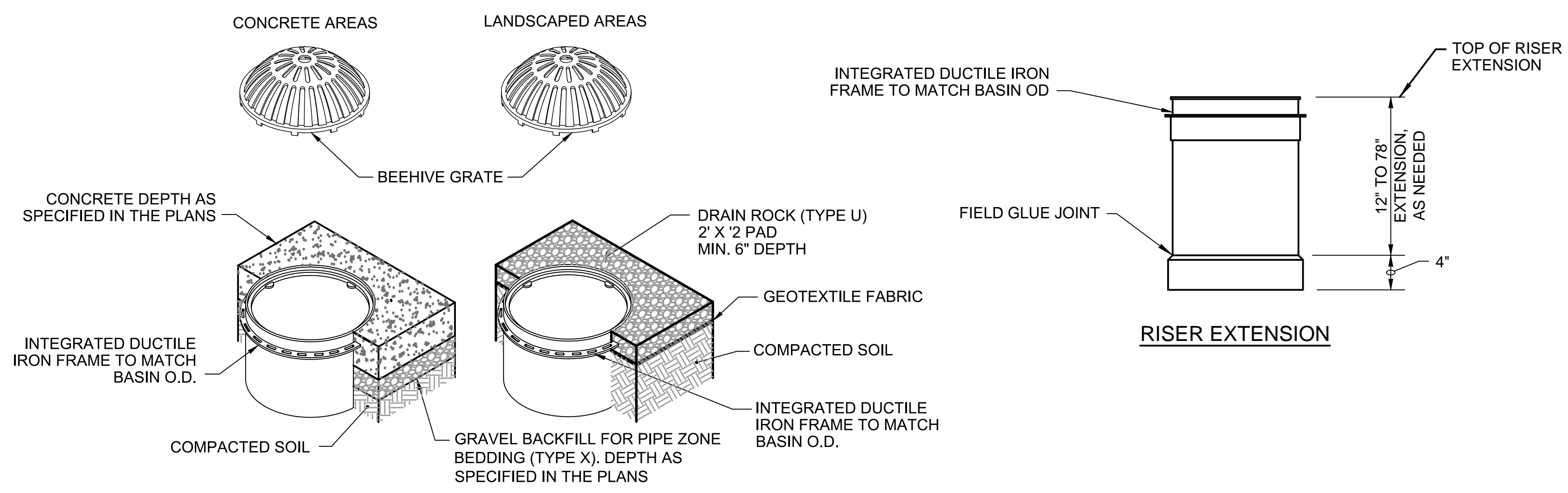
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 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ  
 SCALE: AS NOTED  
 REFERENCE  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20

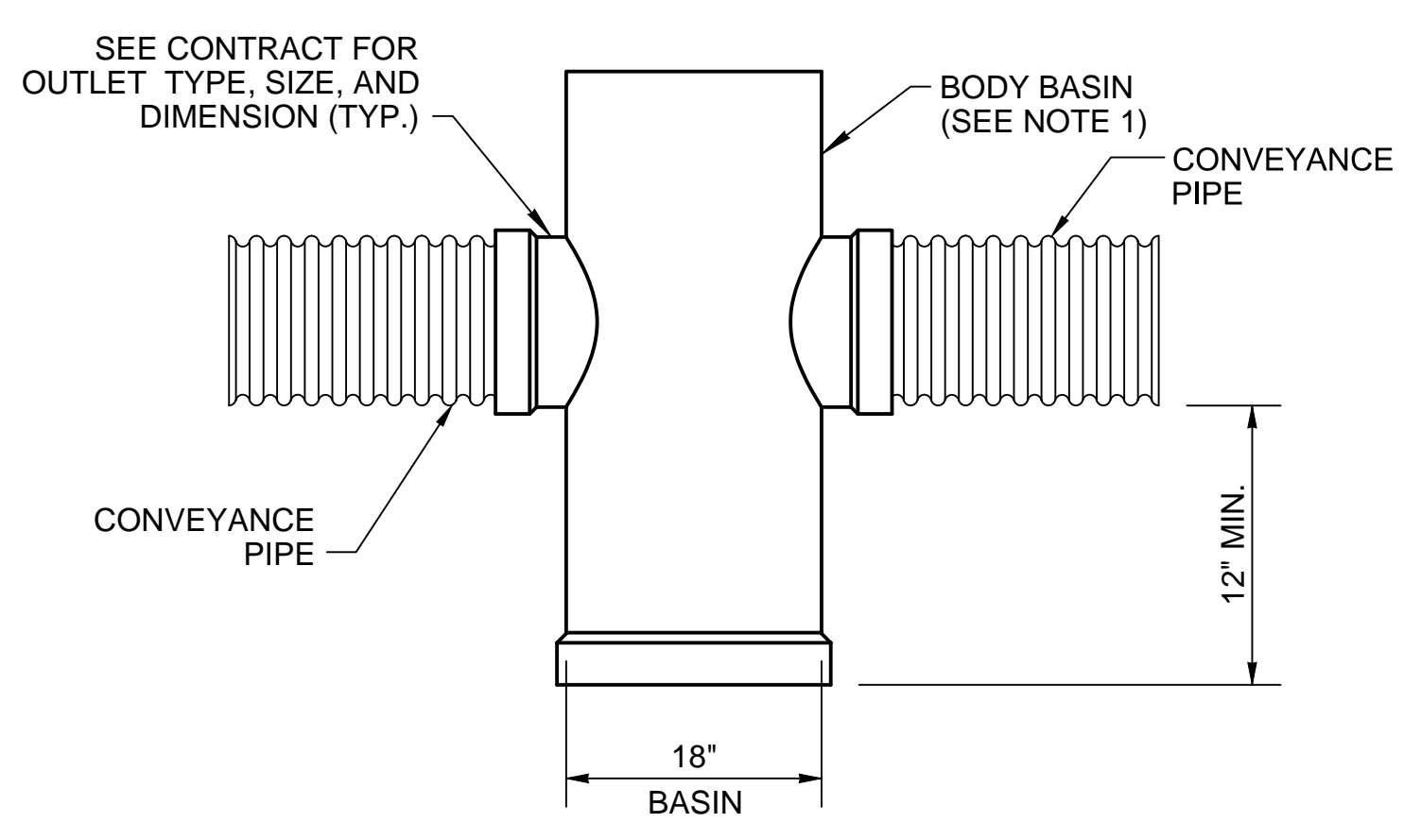


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE**  
**DETAILS**

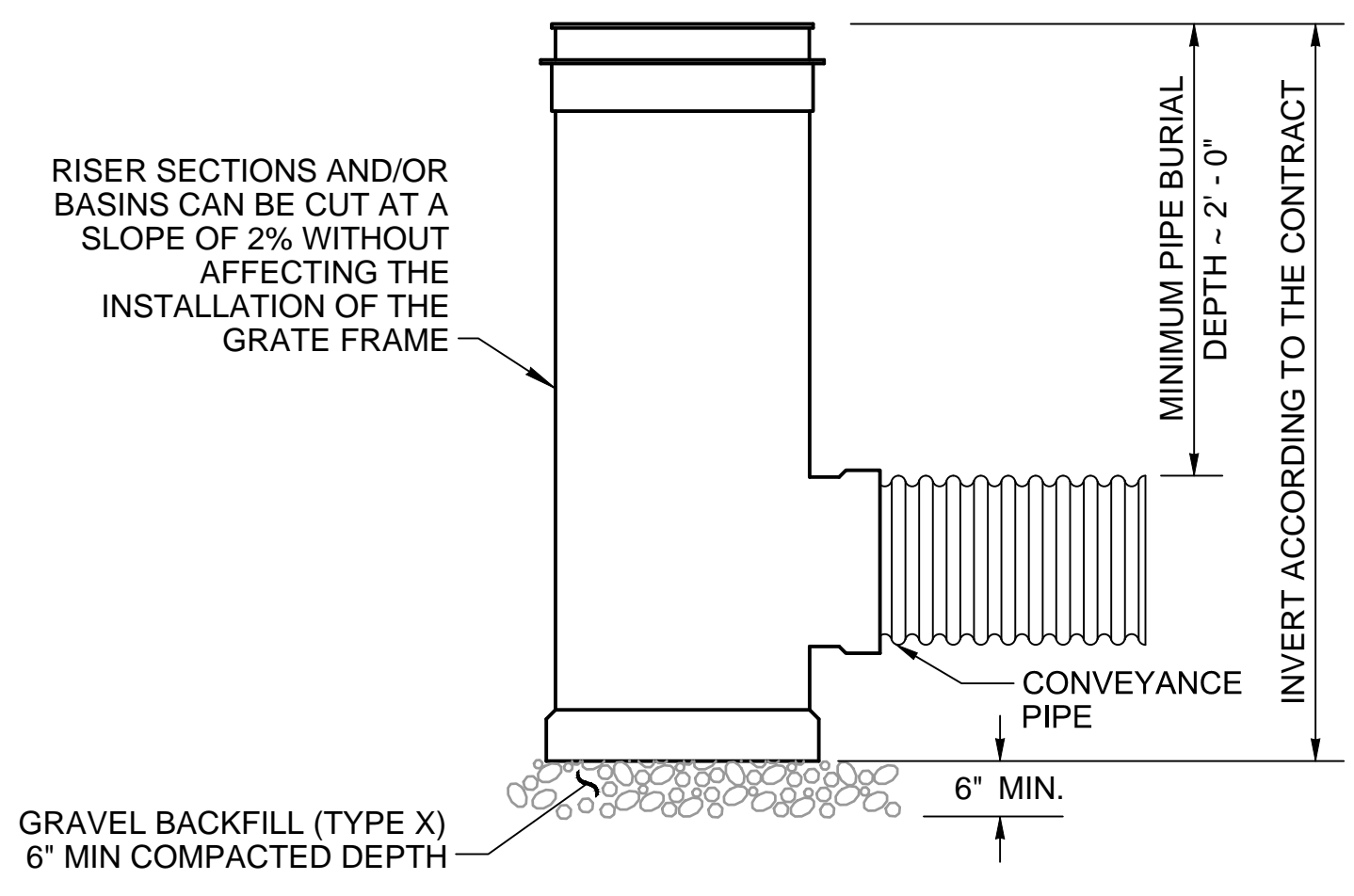
DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>C033</b>	
SHT NO / TOTAL: 106 / 393	REV NO:



FRAME AND GRATE



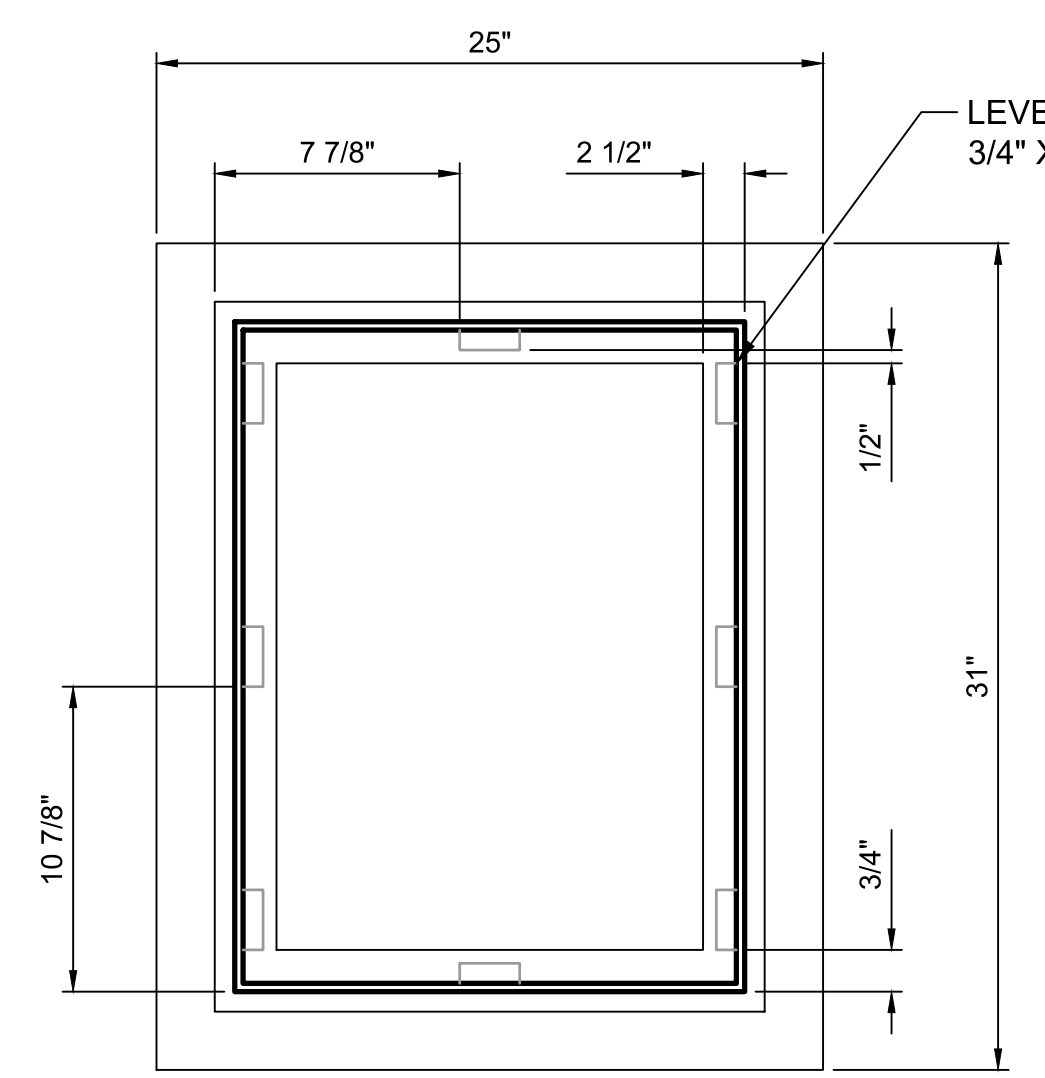
BASIN BODY



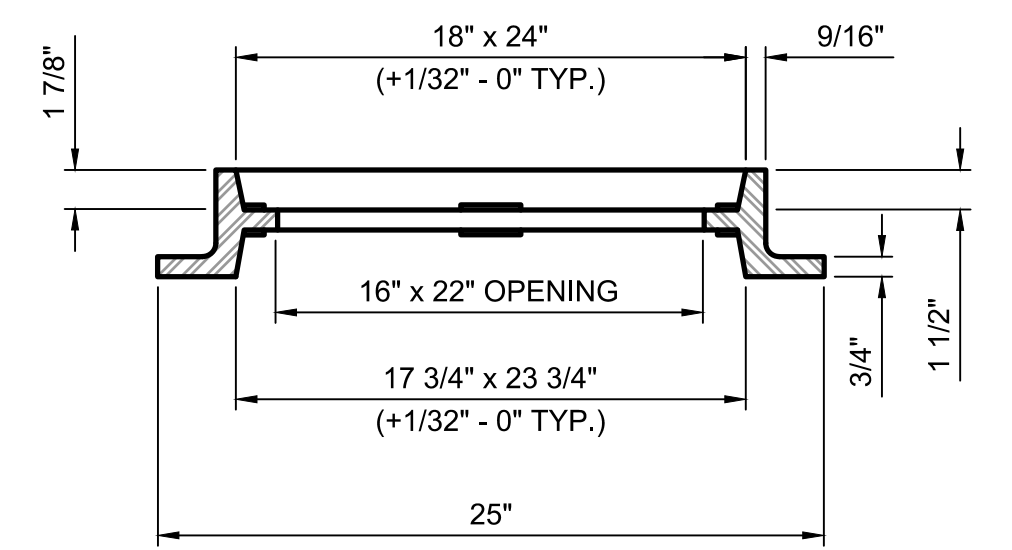
ELEVATION VIEW

NOTES:

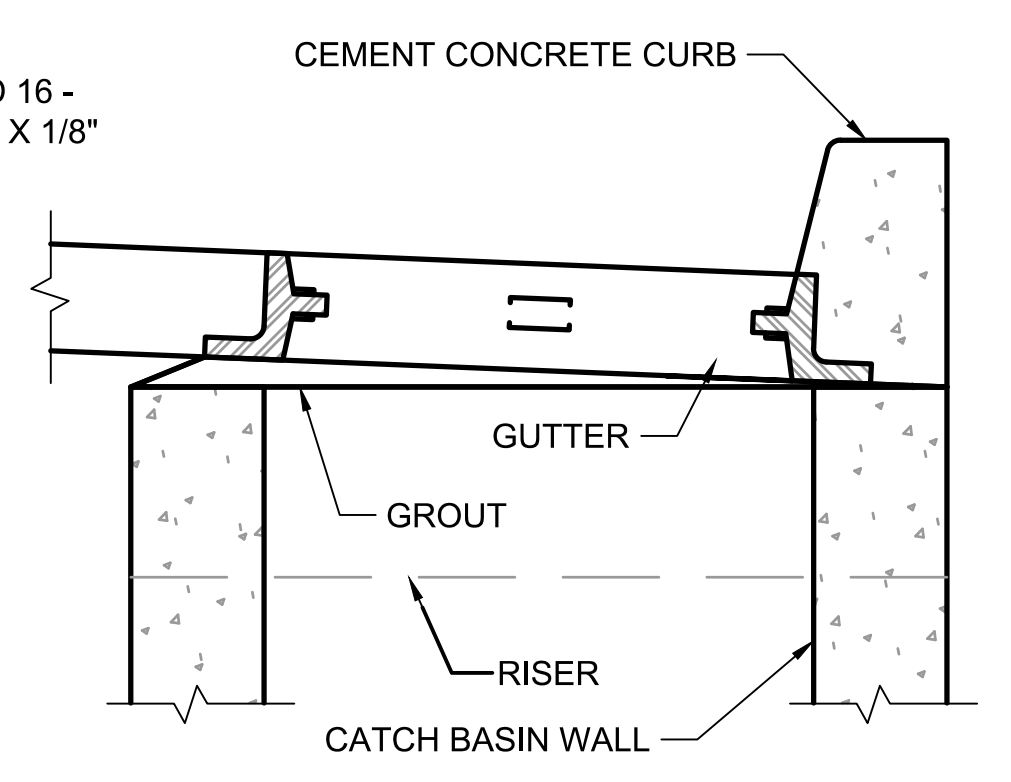
1. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST INVERT SHALL BE 8'.
2. DRAINAGE CONNECTIONS SHALL UTILIZE FLEXABLE ELASTOMETRIC SEALS CONFORMING TO ASTM F477 AND SHALL MEET THE REQUIREMENTS OF ASTM D3212.
3. RISERS CAN BE TRIMMED DOWN TO 3" EXTENSION WITHOUT INTERFERING WITH THE INSTALLATION OF THE FRAME.
4. BASINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK MEETING THE REQUIREMENTS OF ASTM D1784, CELL CLASSIFICATION 12454.
5. DUCTILE IRON CASTINGS FOR PVC CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A536, GRADE 70-50-05, AND SHALL MEET THE PROOF LOAD TESTING REQUIREMENTS OF AASHTO M 306.
6. BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES, AND COVERS, UNLESS SPECIFIED OTHERWISE IN THE CONTRACT. PROVIDE 2 HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. THE FRAME SHALL ACCEPT THE 304 STAINLESS STEEL (SS) 5/8" - 11 NC x 2" ALLEN HEAD CAP SCREW BY BEING TAPPED, OR OTHER APPROVED MECHANISM. LOCATION OF BOLT-DOWN HOLES VARIES BY MANUFACTURER.



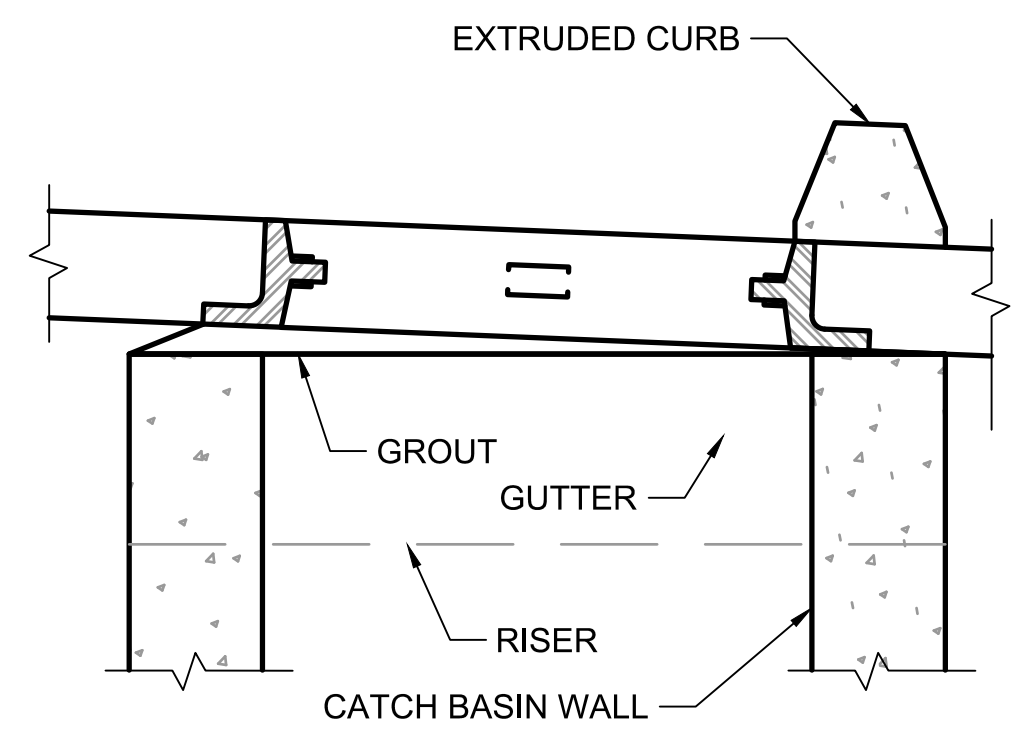
PLAN



SECTION



VERTICAL CURB



EXTRUDED CURB

NOTES:

1. DRILL AND TAP FOR, AND PROVIDE, TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG WHEN USED WITH SOLID COVER (FIG. 7-015) OR WHEN SPECIFIED BY PROJECT REPRESENTATIVE.
2. FRAME MATERIAL IS DUCTILE IRON PER ASTM A48 CLASS 30.
3. SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
4. SEE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 7.05.
5. SEE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

STANDARD FRAME WITH VERTICAL OR EXTRUDED CURB INSTALLATION

DETAIL FOR REFERENCE ONLY  
SCALE: NTS  
SOURCE: 2016 KCDTRSD  
VAR

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FILE LOCATION: \\V3167200\700CADD\02CIVIL\NMPS\E00306E13-NMPS-C034.dwg  
PLOT DATE: 7/23/2019 2:56 PM  
PLOT BY: Euginn, John

YARD DRAIN  
DETAIL 1  
SCALE: NTS C124



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SEPTEMBER 2019

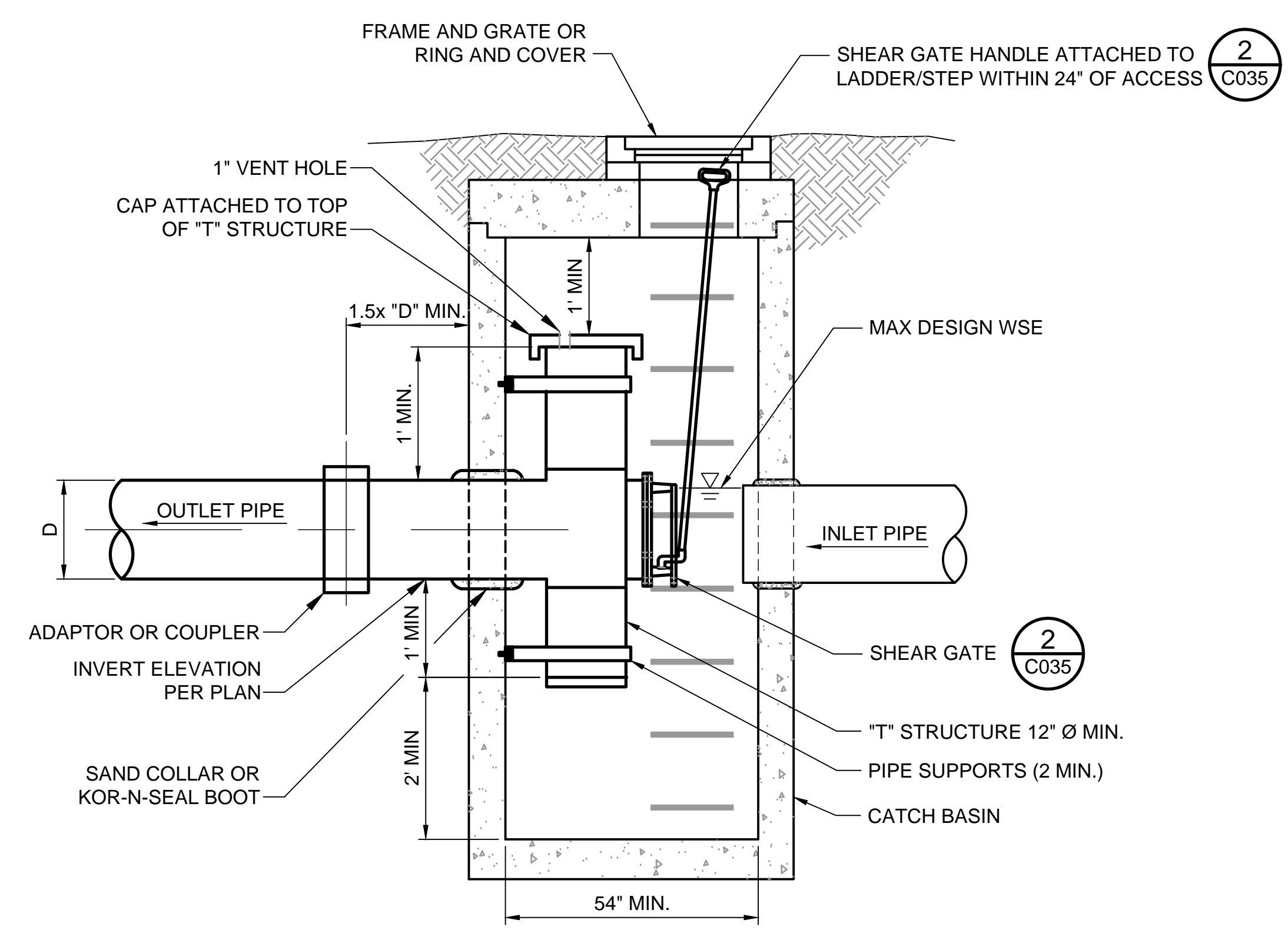
DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWN  
PROJECT ACCEPTANCE: S. YILDIZ  
SCALE: AS NOTED  
REFERENCE  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
STORM DRAINAGE  
DETAILS

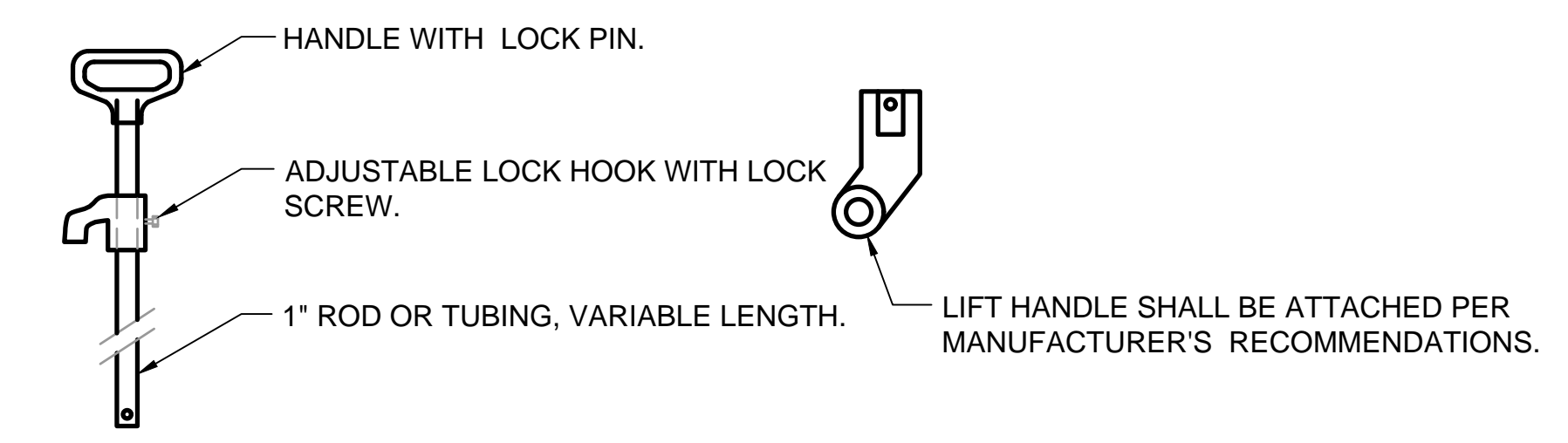
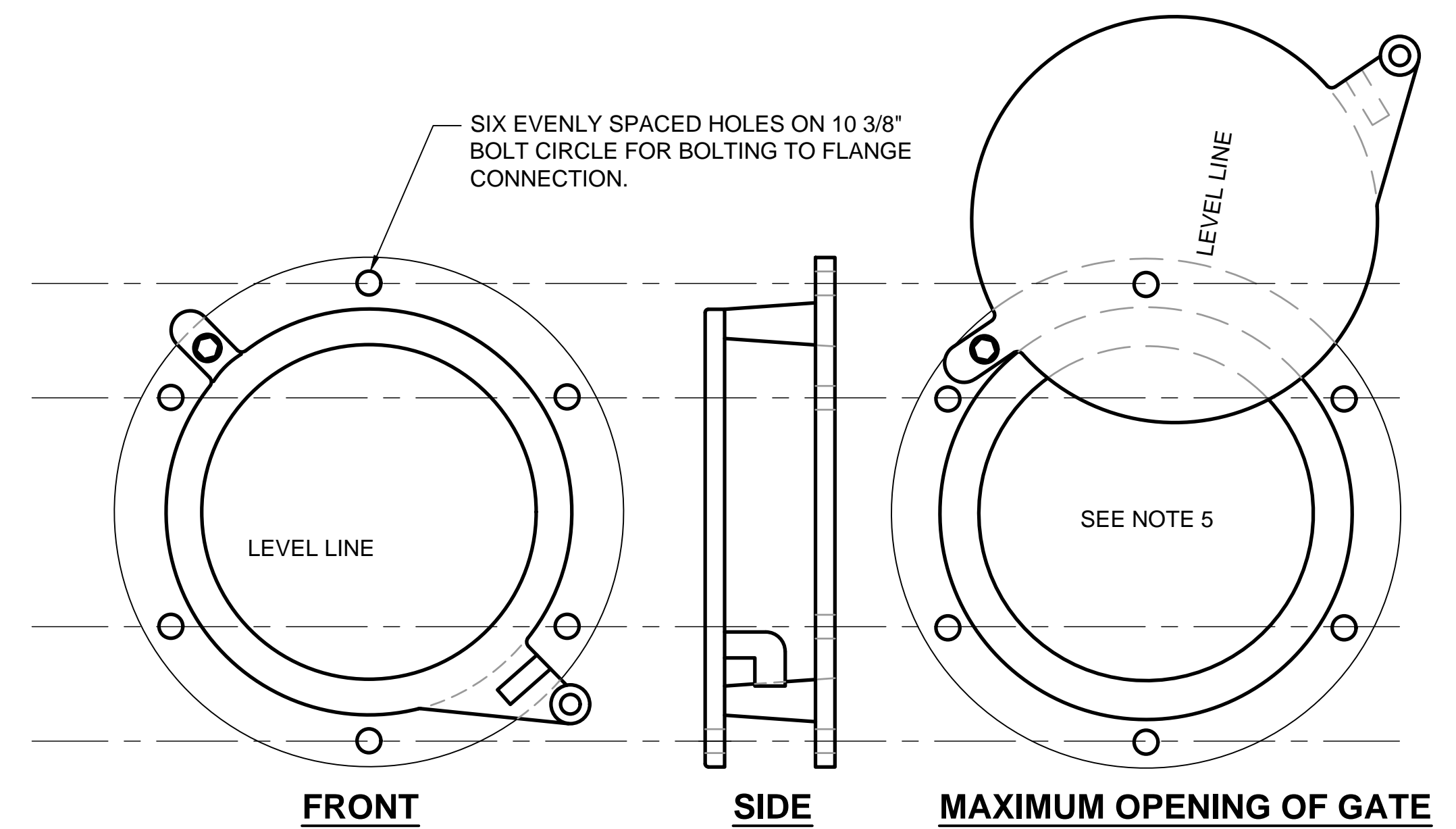
DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: C034	
SHT NO / TOTAL: 107 / 393	REV NO:

NO	REVISION DESCRIPTION	BY	APVD	DATE



- NOTES:**
1. THE "T" STRUCTURE SHALL BE FABRICATED FROM 0.060" ALUMINUM, PVC, CPE, OR HDPE PIPE.
  2. PIPE SUPPORTS SHALL BE STAINLESS STEEL STRAP WITH 5/8"Ø STAINLESS STEEL BOLTS. EITHER EXPANSION BOLTS OR EMBEDDED 2" INTO THE WALL.
  3. THE VERTICAL RISER STEM OF THE "T" STRUCTURE SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE AND ANGLED PLUMB VERTICALLY. HORIZONTAL SECTION SHALL MATCH OUTLET PIPE SLOPE.
  4. OUTLET SHALL BE CONNECTED TO STORM DRAINAGE PIPE WITH SUITABLE GASKETED ADAPTOR, COUPLER, OR GROUTED INTO THE BELL IF CONCRETE PIPE IS USED.
  5. APPLY NON-SHRINK GROUT INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISERS, FRAMES, AND PIPE PENETRATIONS.

**SPILL CONTROL**  
**DETAIL** 1  
 SCALE: NTS C124



**LIFT HANDLE**

- NOTES:**
1. SHEAR GATE SHALL BE ALUMINUM ALLOY PER ASTM B-26-ZG-32A OR CAST IRON ASTM A48 CLASS 30B AS REQUIRED.
  2. GATE SHALL BE 8 IN. DIAM. UNLESS OTHERWISE SPECIFIED.
  3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.
  4. LIFT ROD: AS SPECIFIED BY MFR. WITH HANDLE EXTENDING TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.
  5. GATE SHALL NOT OPEN BEYOND THE CLEAR OPENING BY LIMITED HINGE MOVEMENT, STOP TAB, OR SOME OTHER DEVICE.
  6. NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.
  7. MATING SURFACES OF LID AND BODY TO BE MACHINED FOR PROPER FIT.
  8. FLANGE MOUNTING BOLTS SHALL BE 3/8 IN. DIAM. STAINLESS STEEL.
  9. ALTERNATE CLEANOUT/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE, PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8 IN. BOLT CIRCLE FOR BOLTING TO THE FLANGE CONNECTION.
  10. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

**TEE SECTION SHEAR GATE**  
**DETAIL** 2  
 SCALE: NTS C035

FOR REFERENCE ONLY

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NO	REVISION DESCRIPTION	BY	APVD	DATE



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 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWN  
 PROJECT ACCEPTANCE: S. YILDIZ

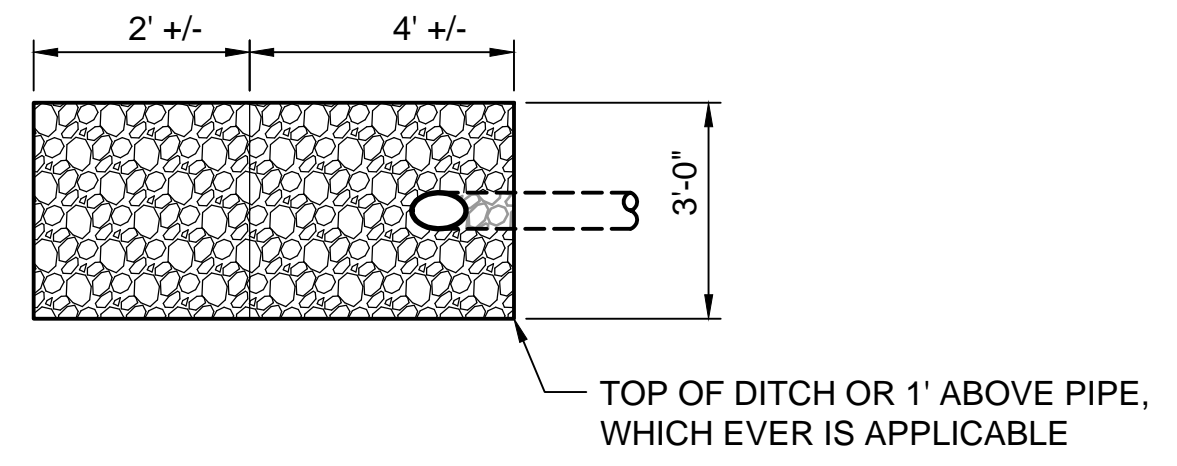
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 CONTRACT NO: C01339C20



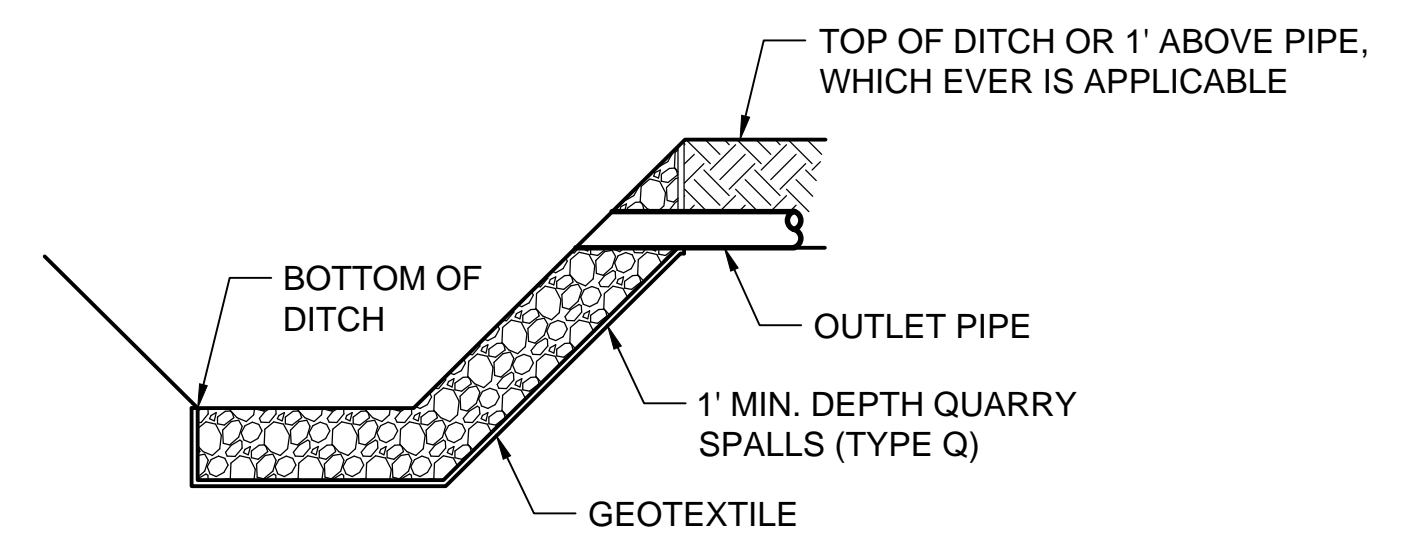
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE**  
**DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>C035</b>	
SHT NO / TOTAL: 108 / 393	REV NO:



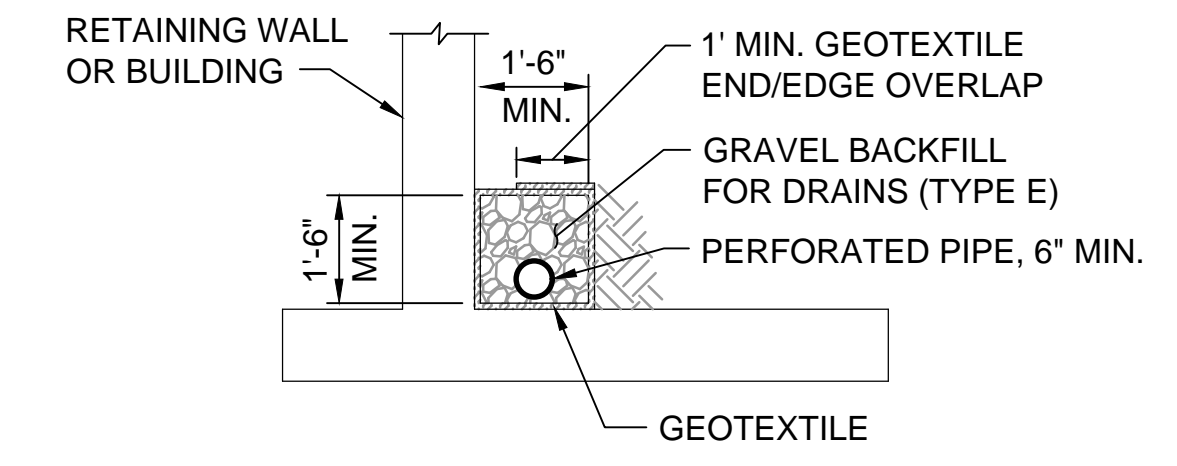


**PLAN VIEW**



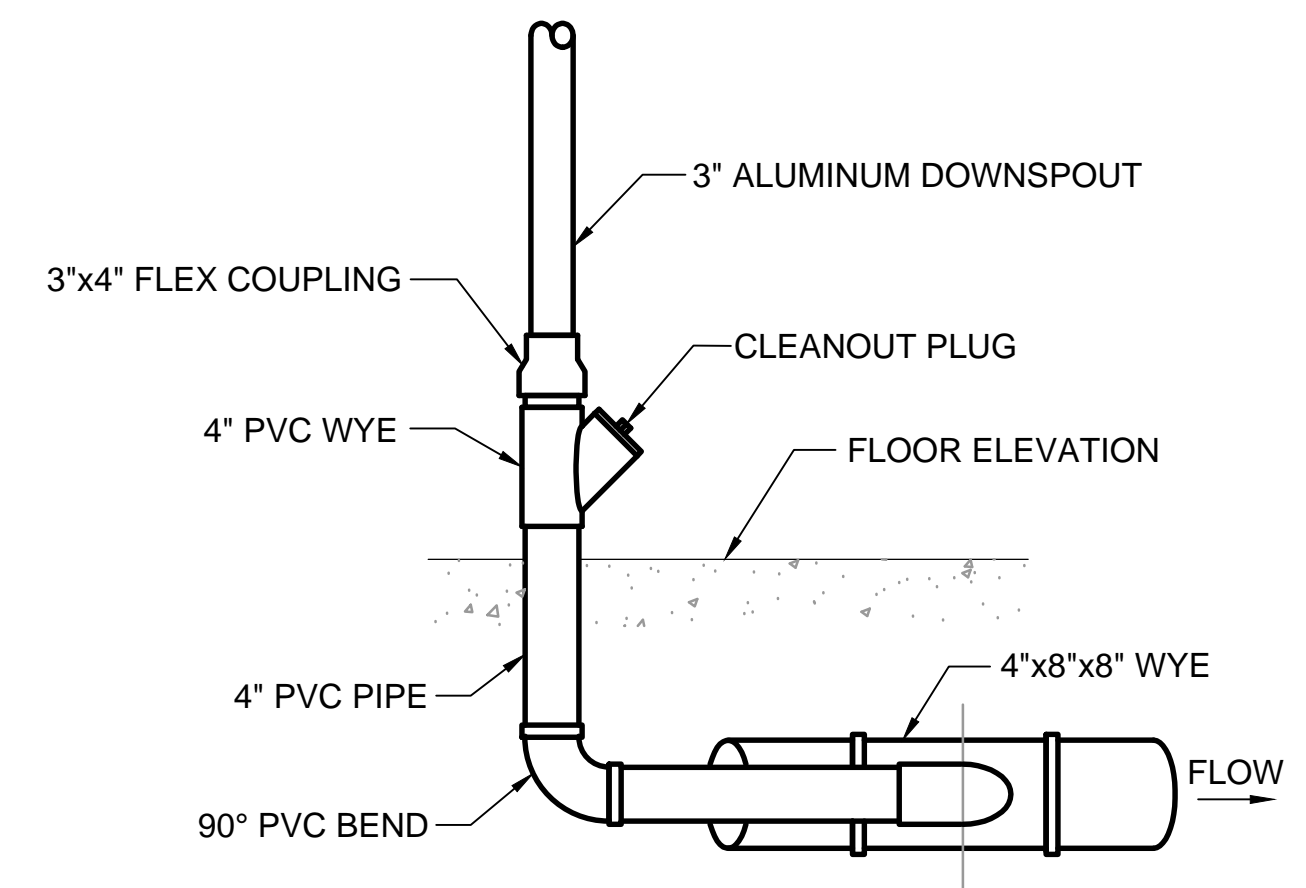
**ELEVATION VIEW**

**ENERGY DISSIPATION PAD**  
 DETAIL 1  
 SCALE: NTS  
 C124



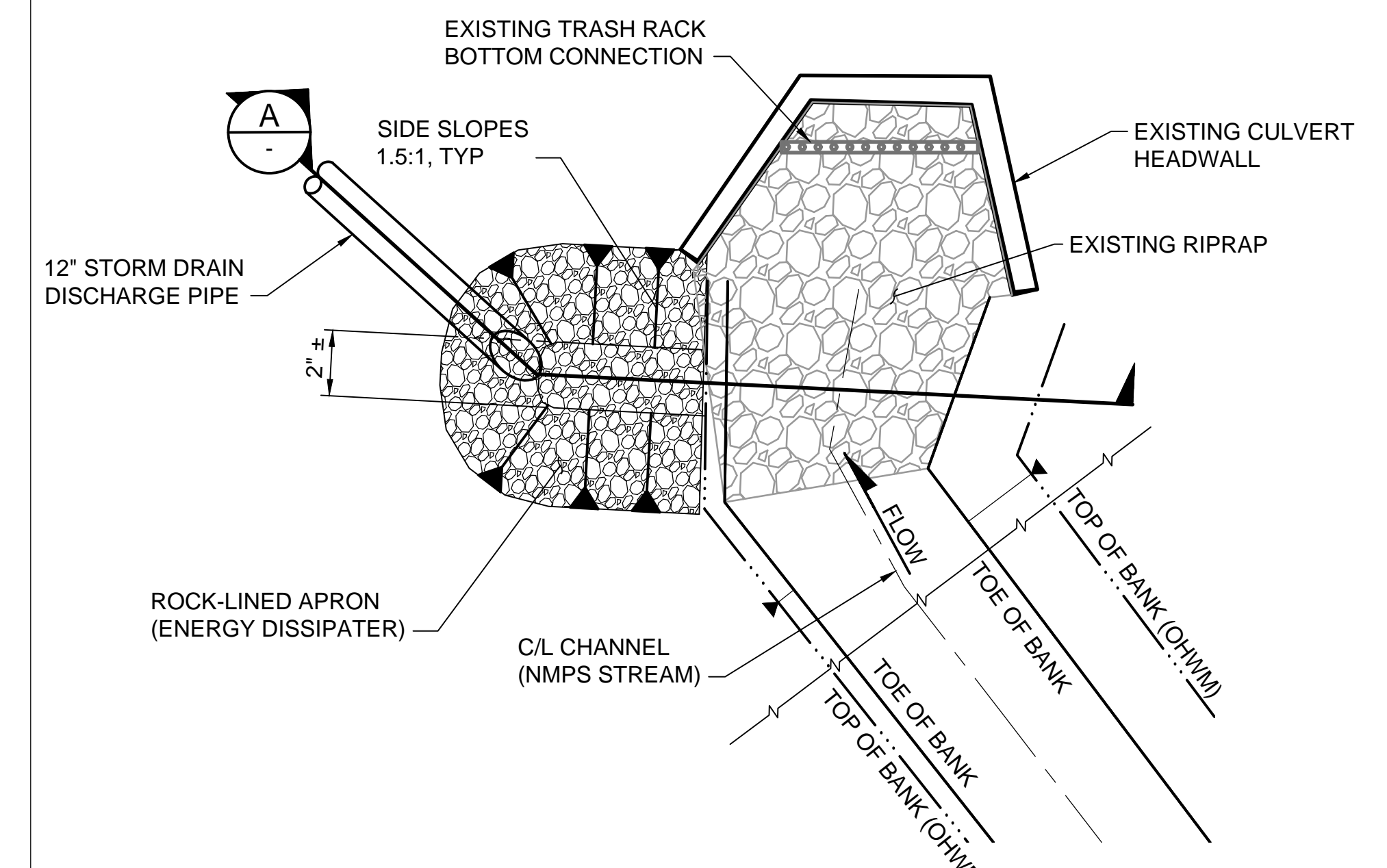
**ELEVATION VIEW**

**FOOTING DRAIN**  
 DETAIL 3  
 SCALE: NTS  
 C124



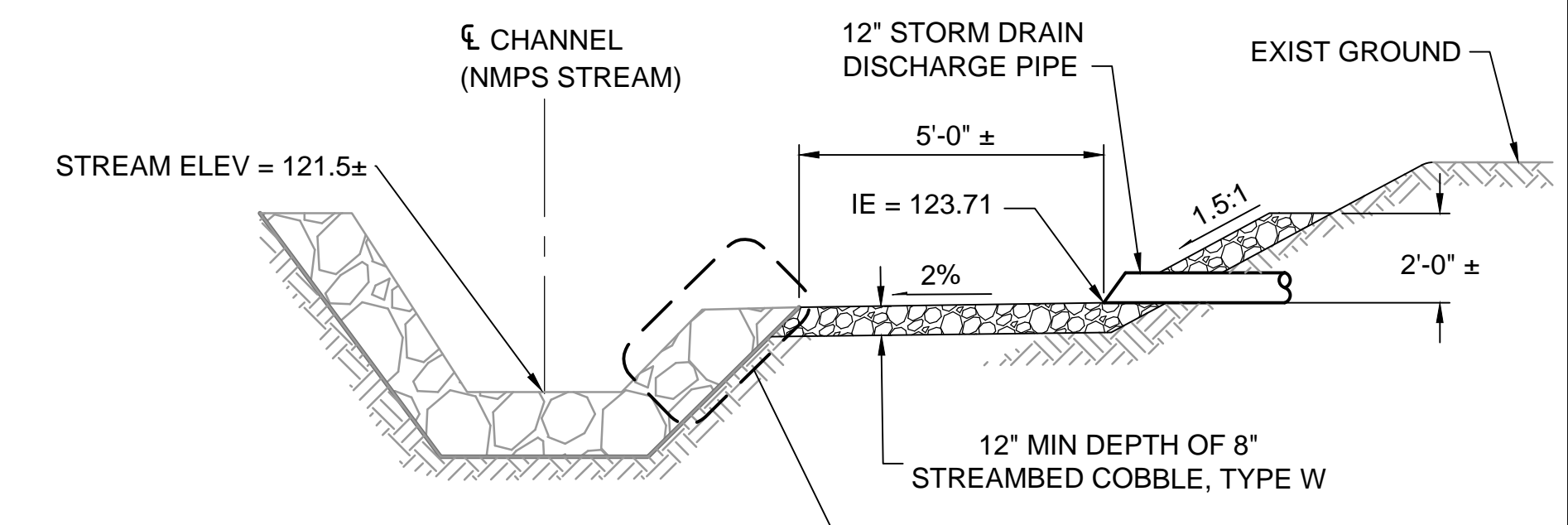
**DOWNSPOUT TRANSITION**

DETAIL 4  
 SCALE: NTS  
 C124



**OUTFALL PROTECTION**

DETAIL 2  
 SCALE: NTS  
 C124



**OUTFALL PROTECTION**

SECTION A  
 SCALE: NTS

**FOR REFERENCE ONLY**

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NO	REVISION DESCRIPTION	BY	APVD	DATE



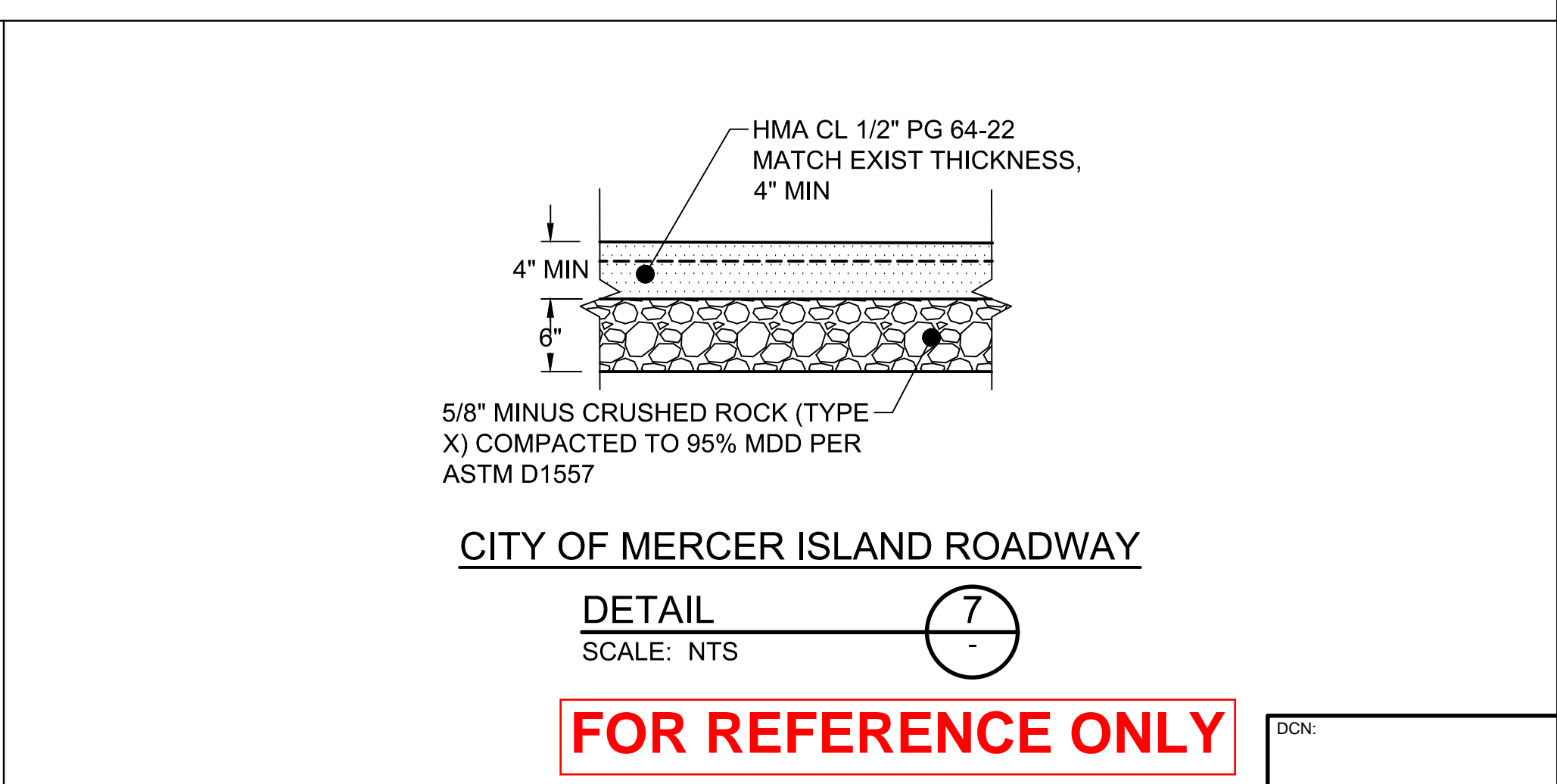
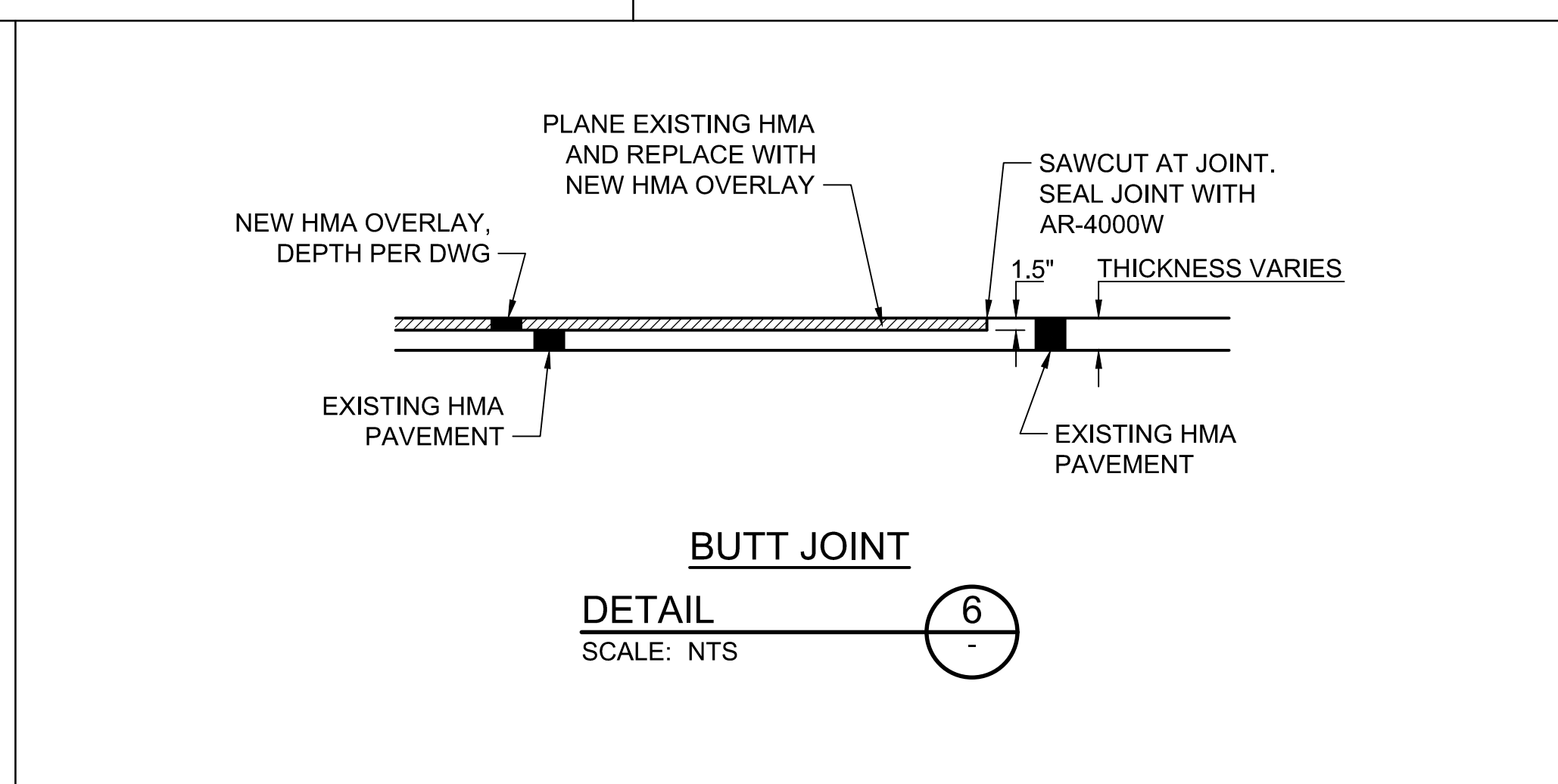
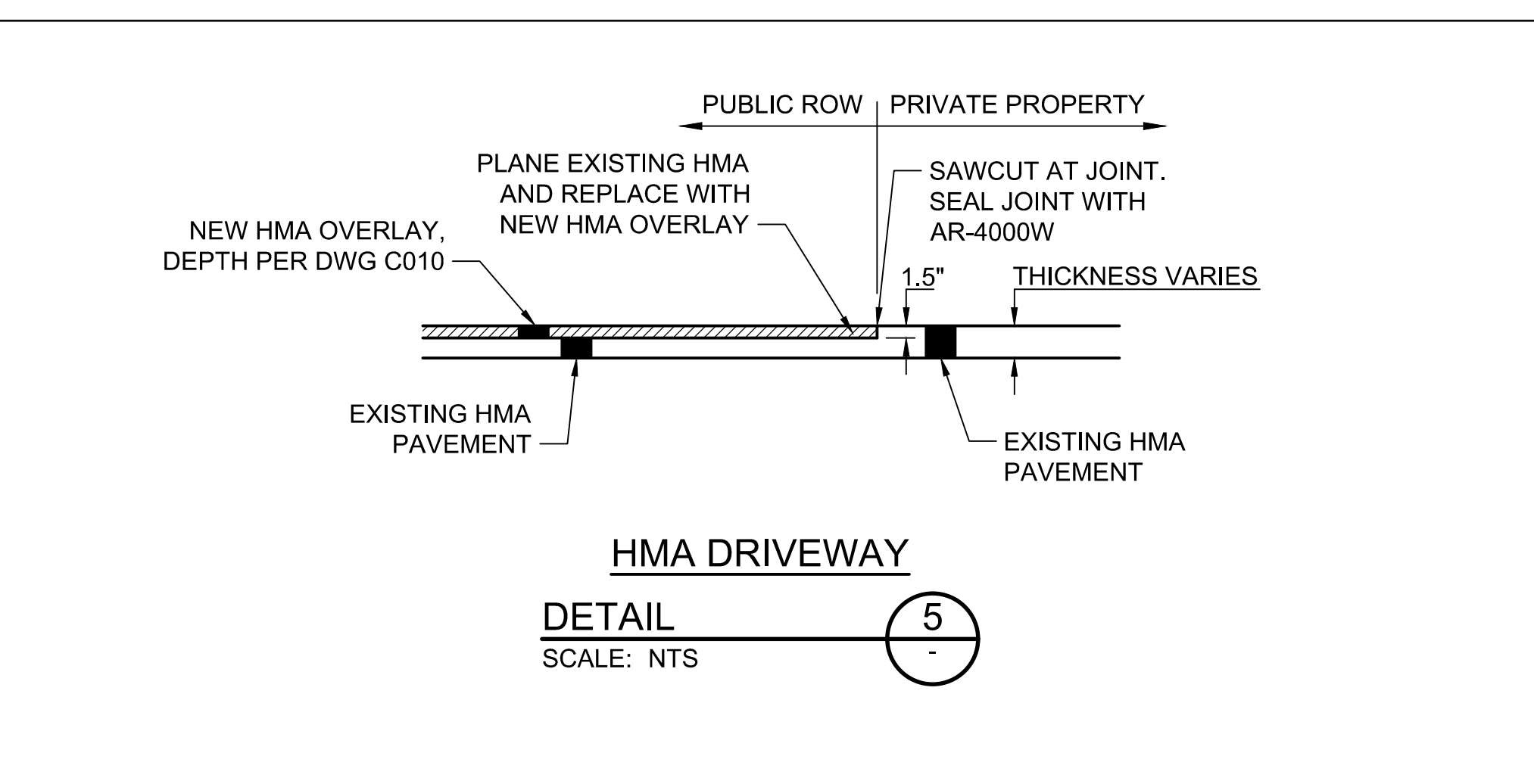
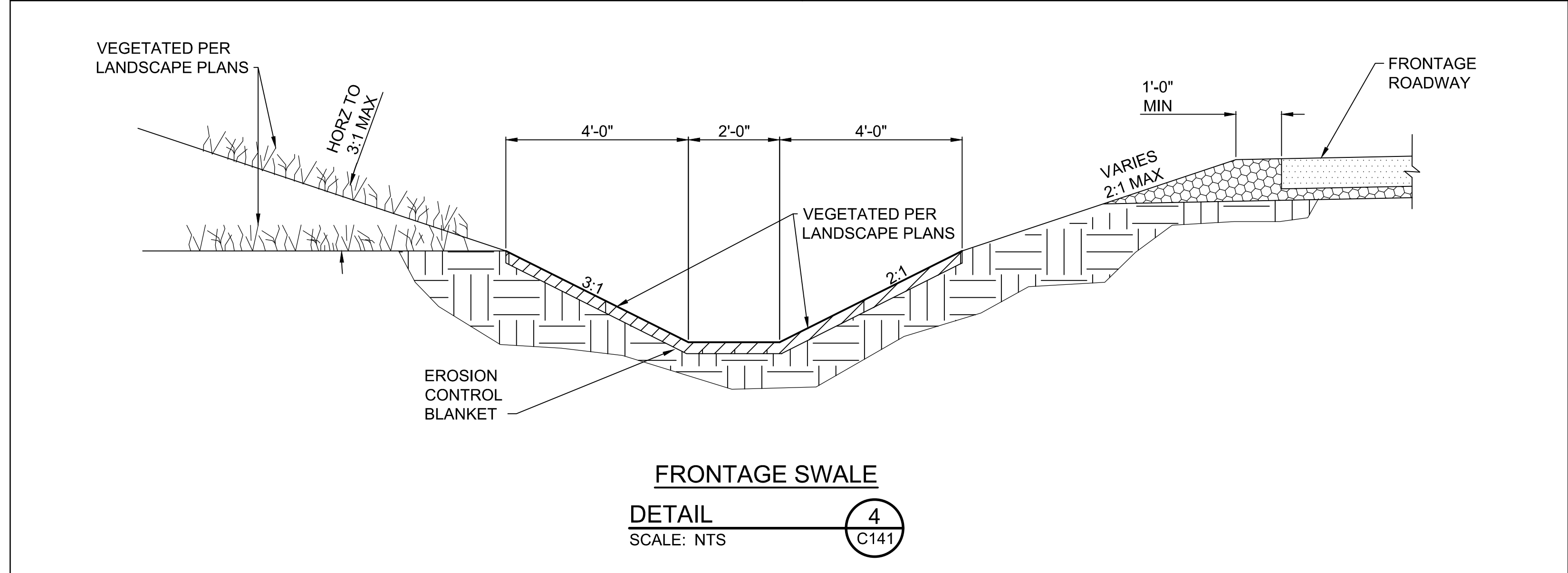
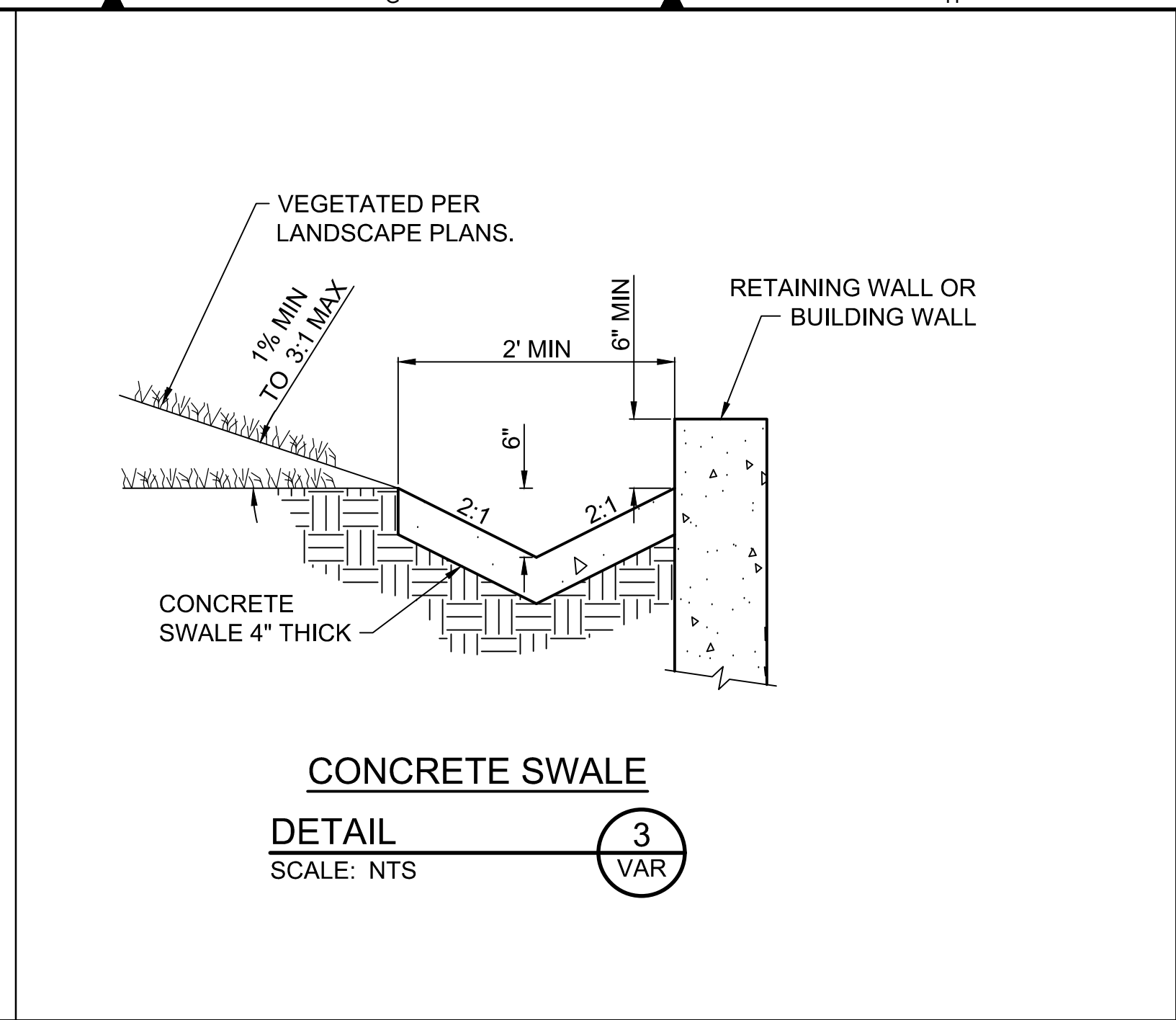
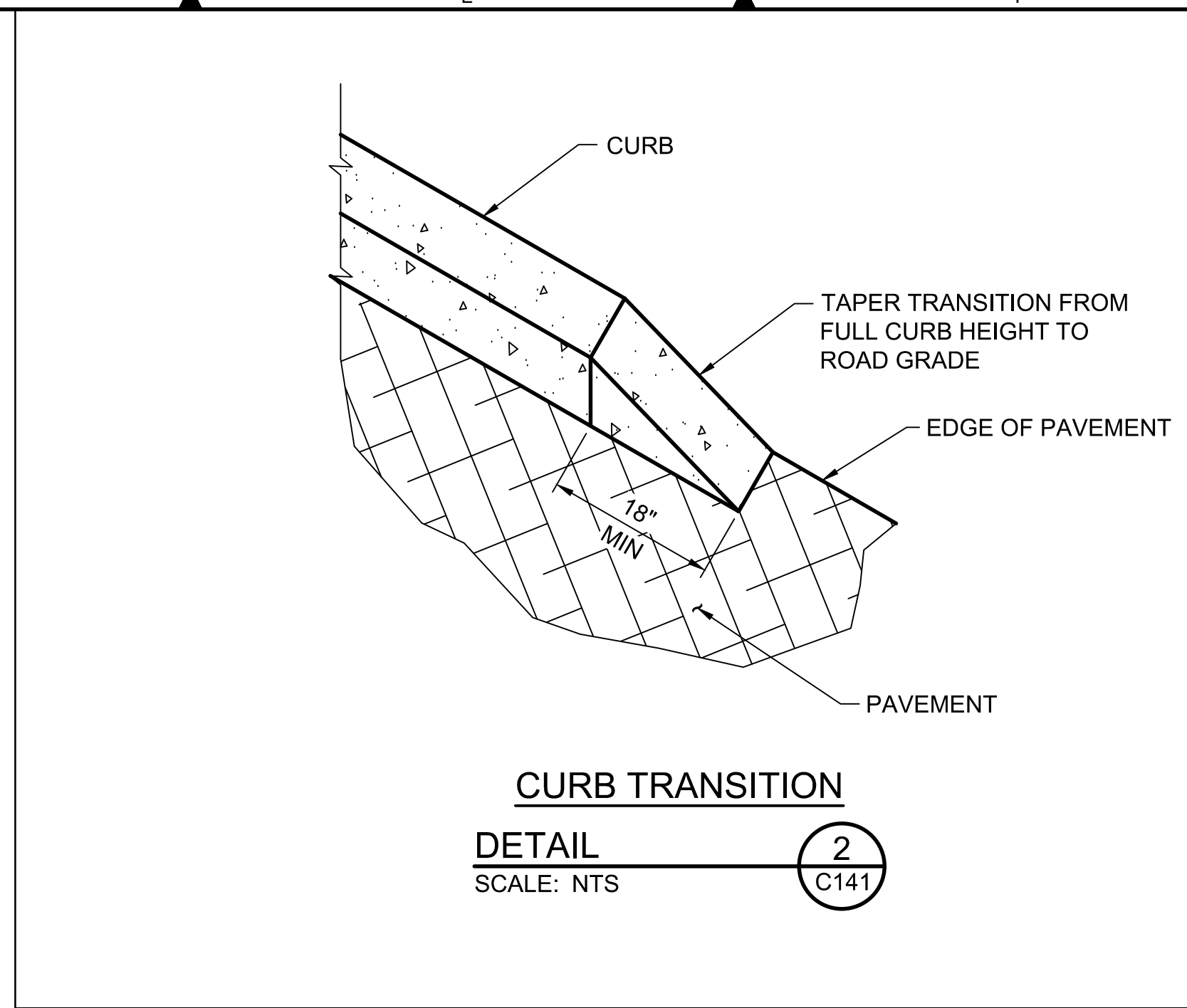
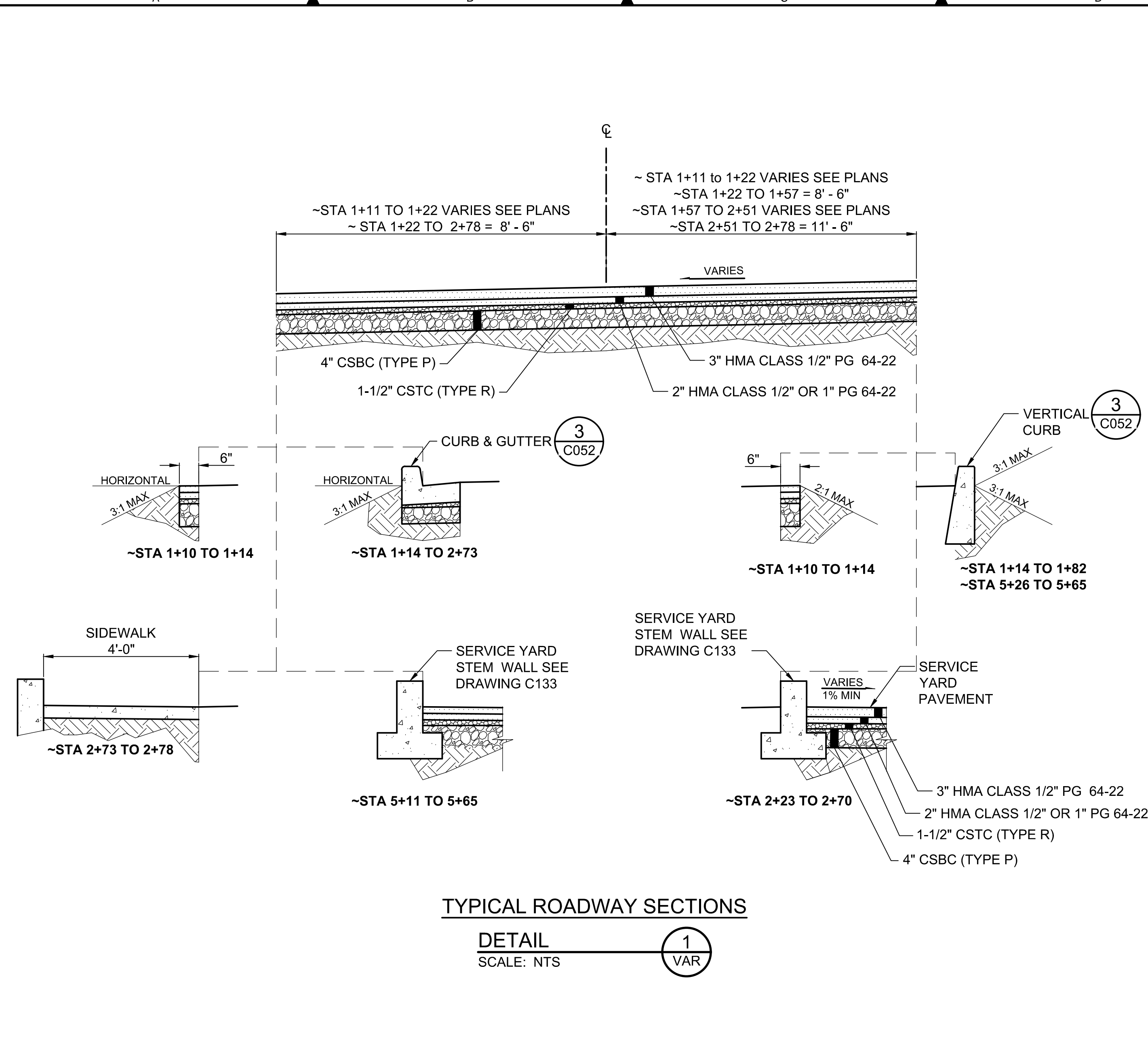
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWN  
 PROJECT ACCEPTANCE: S. YILDIZ  
 SCALE: AS NOTED  
 REFERENCE 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE**  
**DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: C036
SHT NO / TOTAL	REV NO:



**FOR REFERENCE ONLY**

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NO	REVISION DESCRIPTION	BY	APVD	DATE



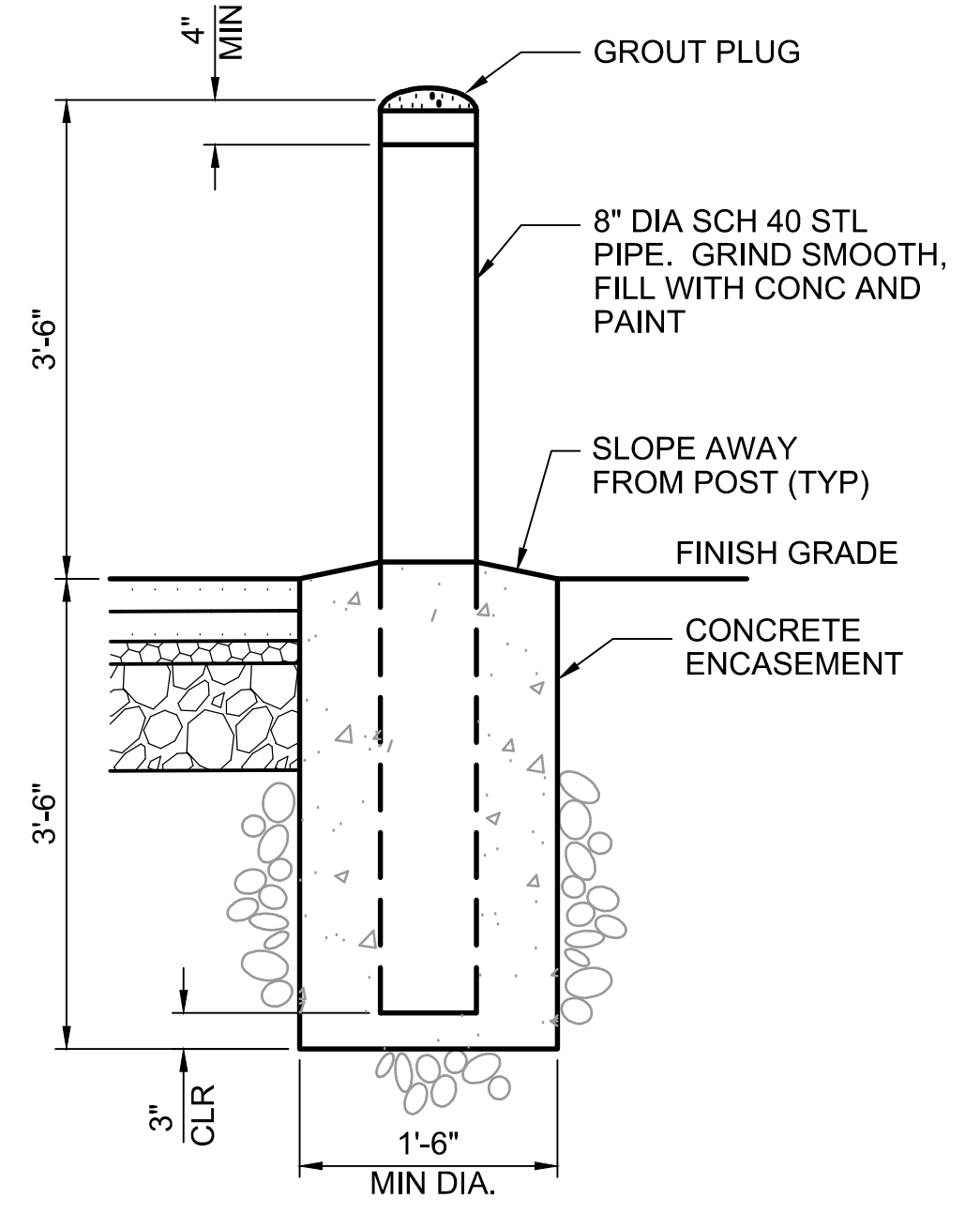
**PRELIMINARY ISSUE DRAWING**  
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 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 SCALE: AS NOTED  
 PROJECT ENGINEER: J. CHAE  
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 PROJECT ACCEPTANCE: S. YILDIZ  
 FACILITY NUMBER: 333  
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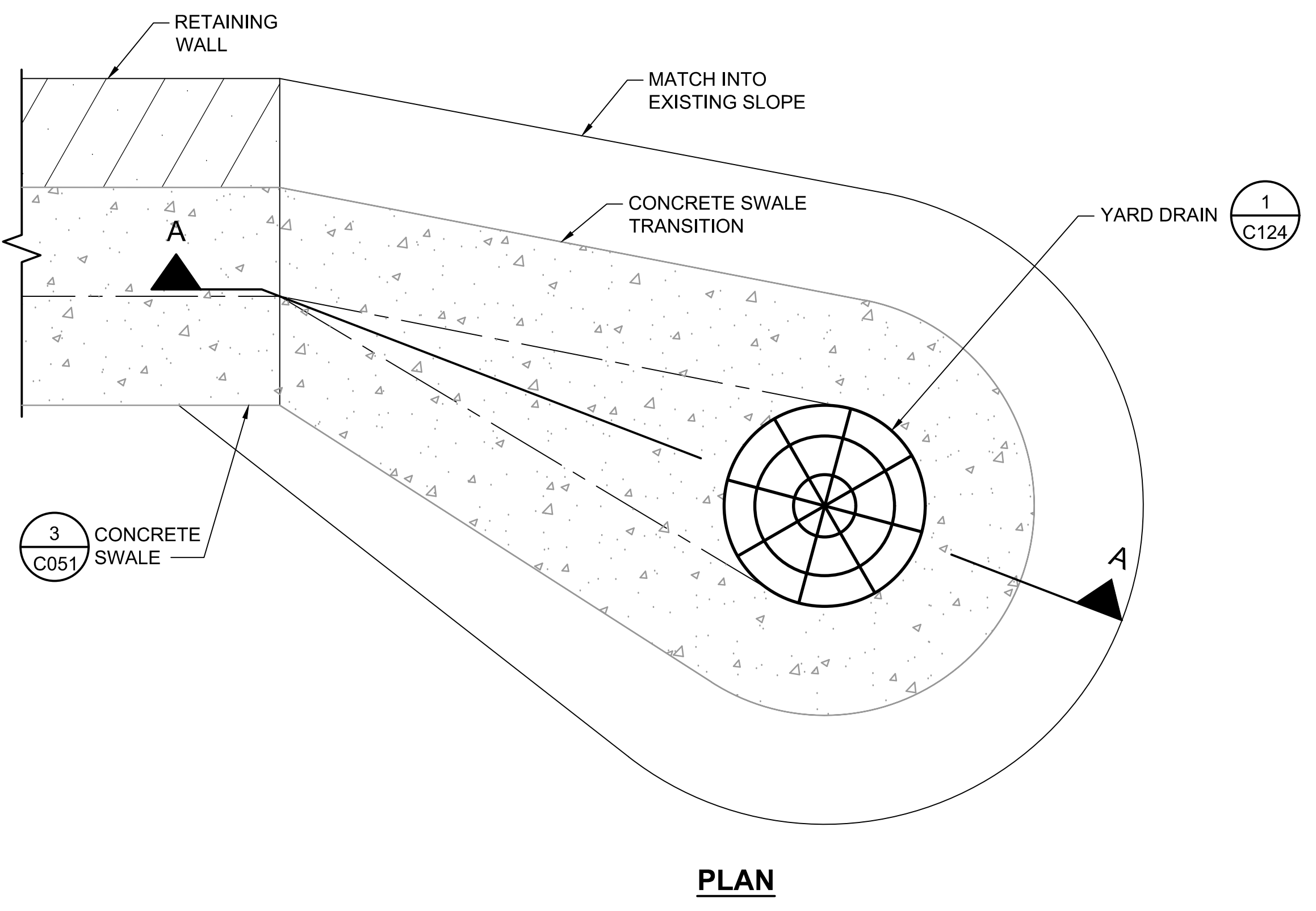
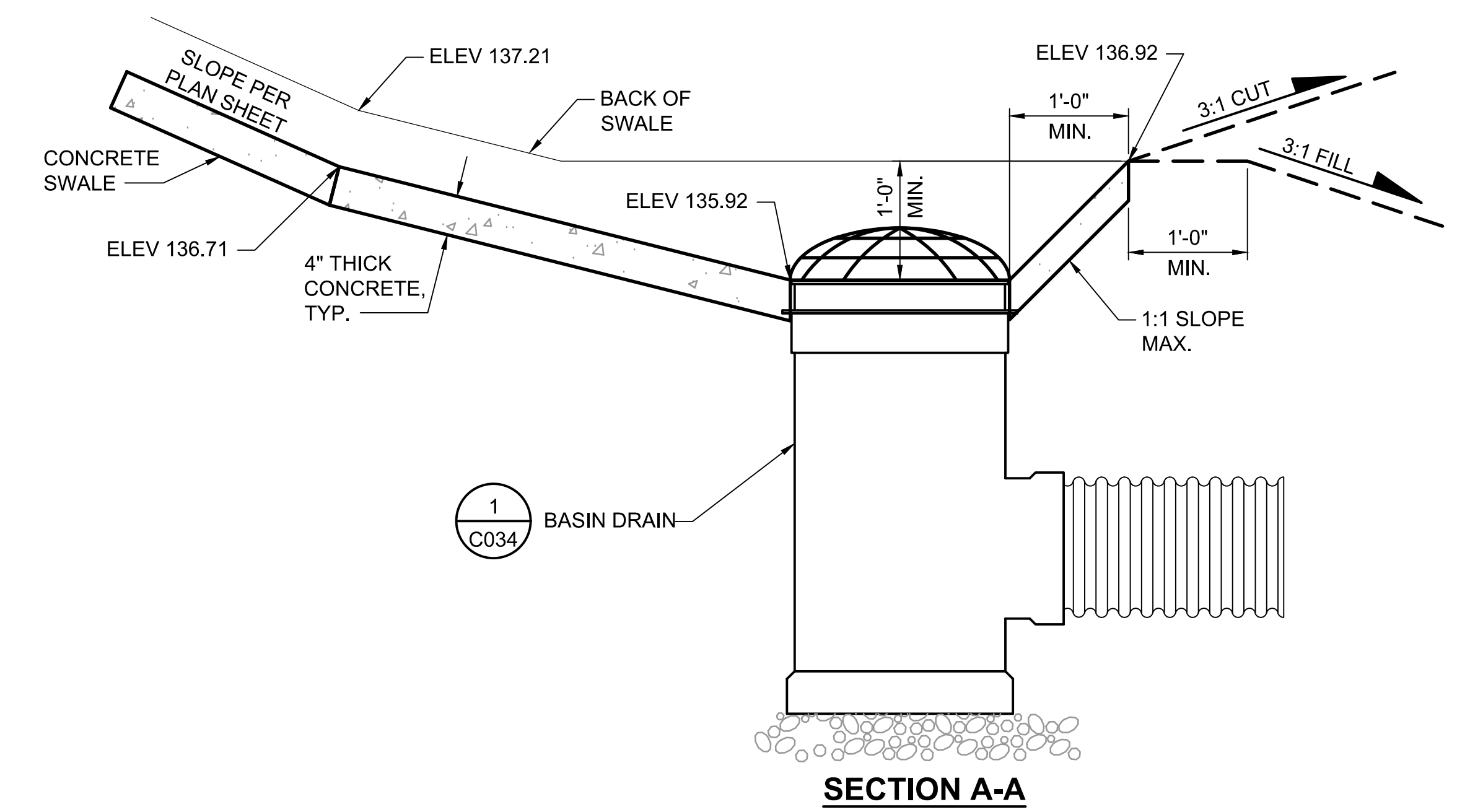
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**ROAD SECTIONS AND SITE DETAILS**

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PROJECT FILE NO:	DRAWING NO: C051
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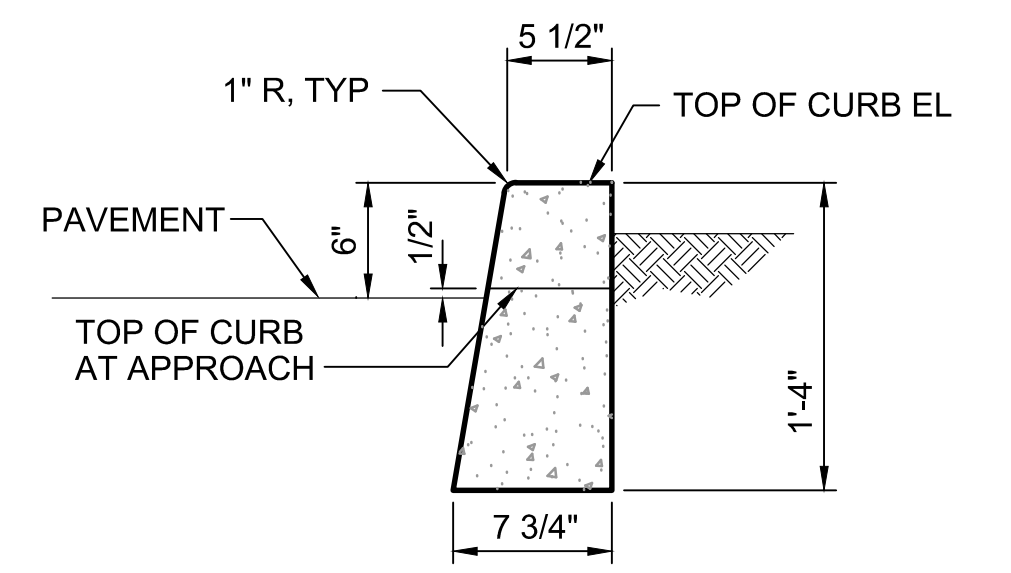


**BOLLARDS**  
**DETAIL** 1  
 SCALE: NTS C141

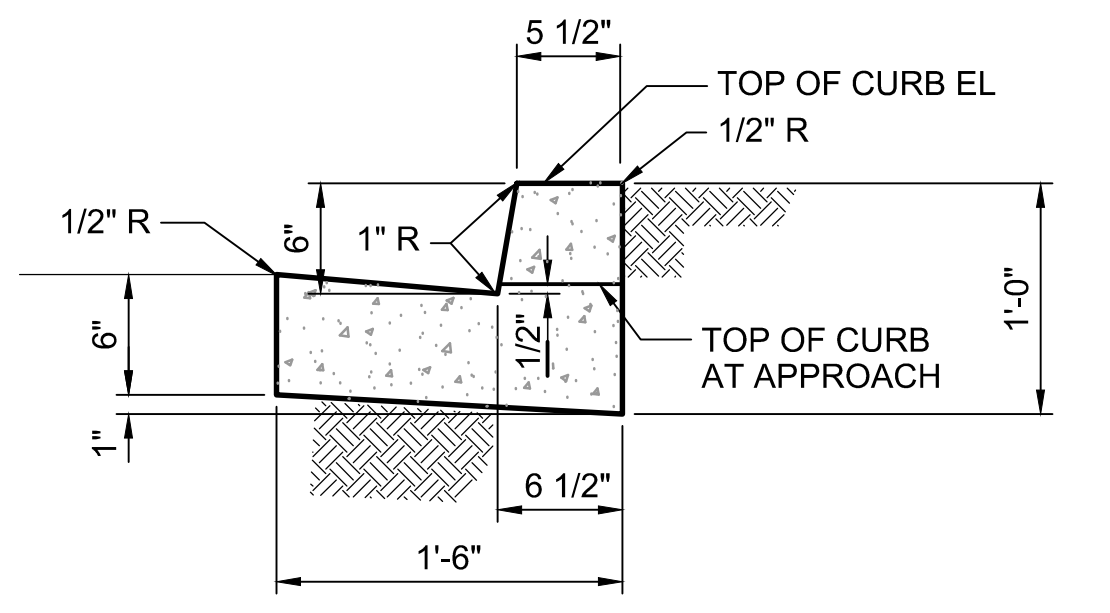
- NOTE:**
- BOLLARDS TO BE PLACED AS SHOWN ON DRAWINGS OR AS DIRECTED BY PROJECT REPRESENTATIVE.
  - REFER TO PSE ELECTRIC SERVICE HANDBOOK, JUNE 2017, FOR BOLLARD SPACING GUIDELINES.



**SWALE DRAIN**  
**DETAIL** 2  
 SCALE: NTS C141



**CEMENT CONCRETE VERTICAL CURB**



**CEMENT CONCRETE CURB AND GUTTER**

**CURB & GUTTER**  
**DETAIL** 3  
 SCALE: NTS C051

- NOTE:**
- GUTTER SHALL BE SLOPED THE SAME AS ADJACENT PAVEMENT WHEN THE PAVEMENT SLOPES AWAY FROM THE GUTTER.

**FOR REFERENCE ONLY**

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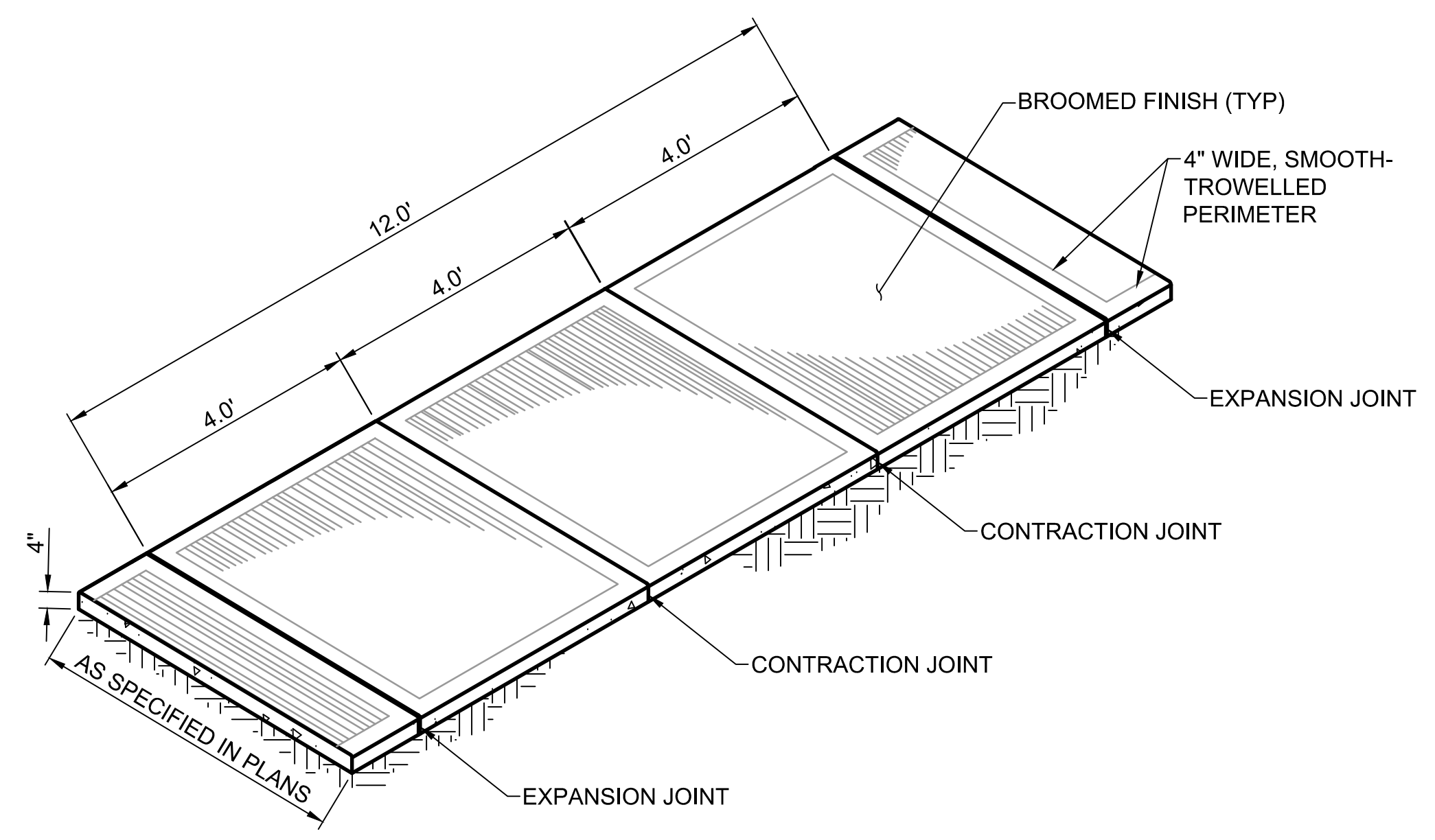
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**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 SCALE: AS NOTED  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

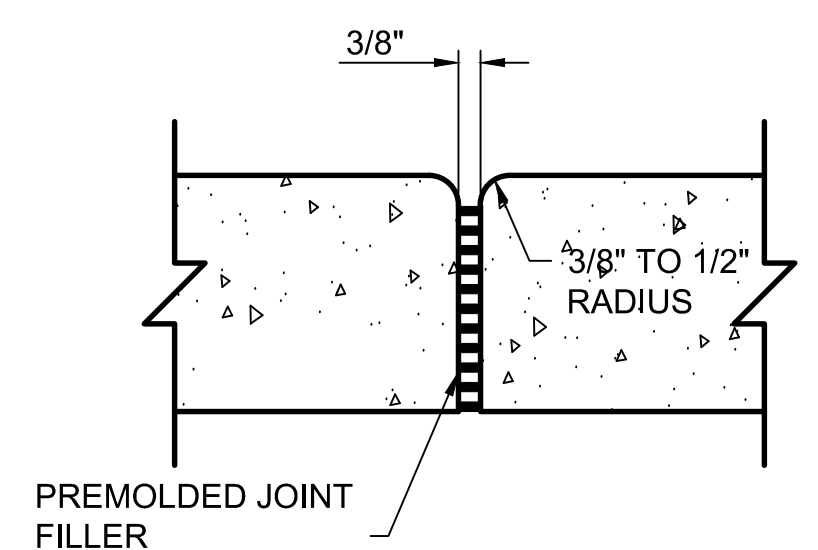


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**SITE DETAILS**

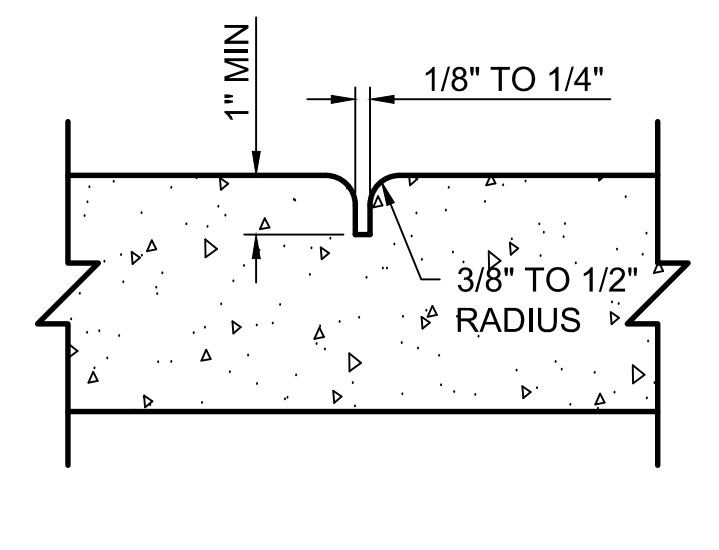
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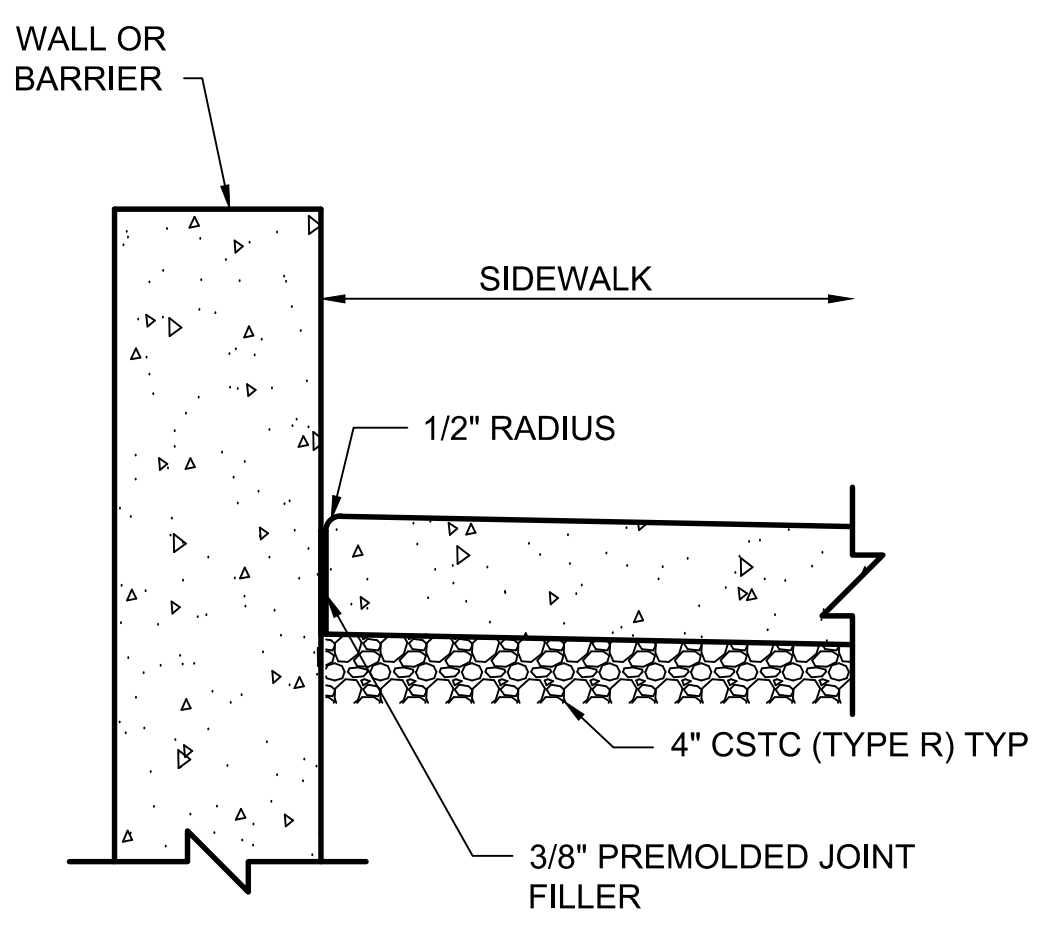
ISOMETRIC VIEW  
JOINT AND FINISH  
DETAIL



EXPANSION JOINT

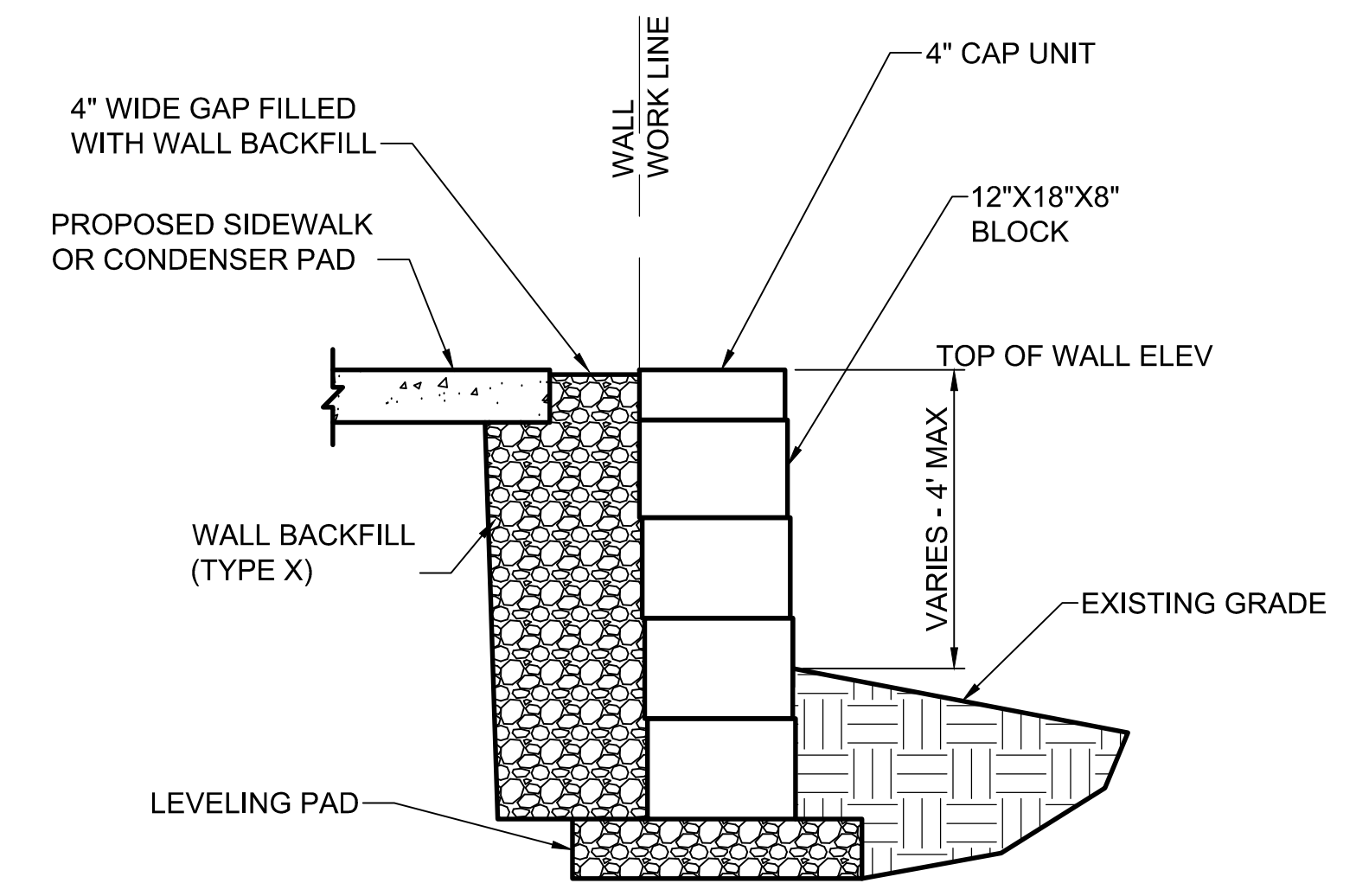


CONTRACTION JOINT

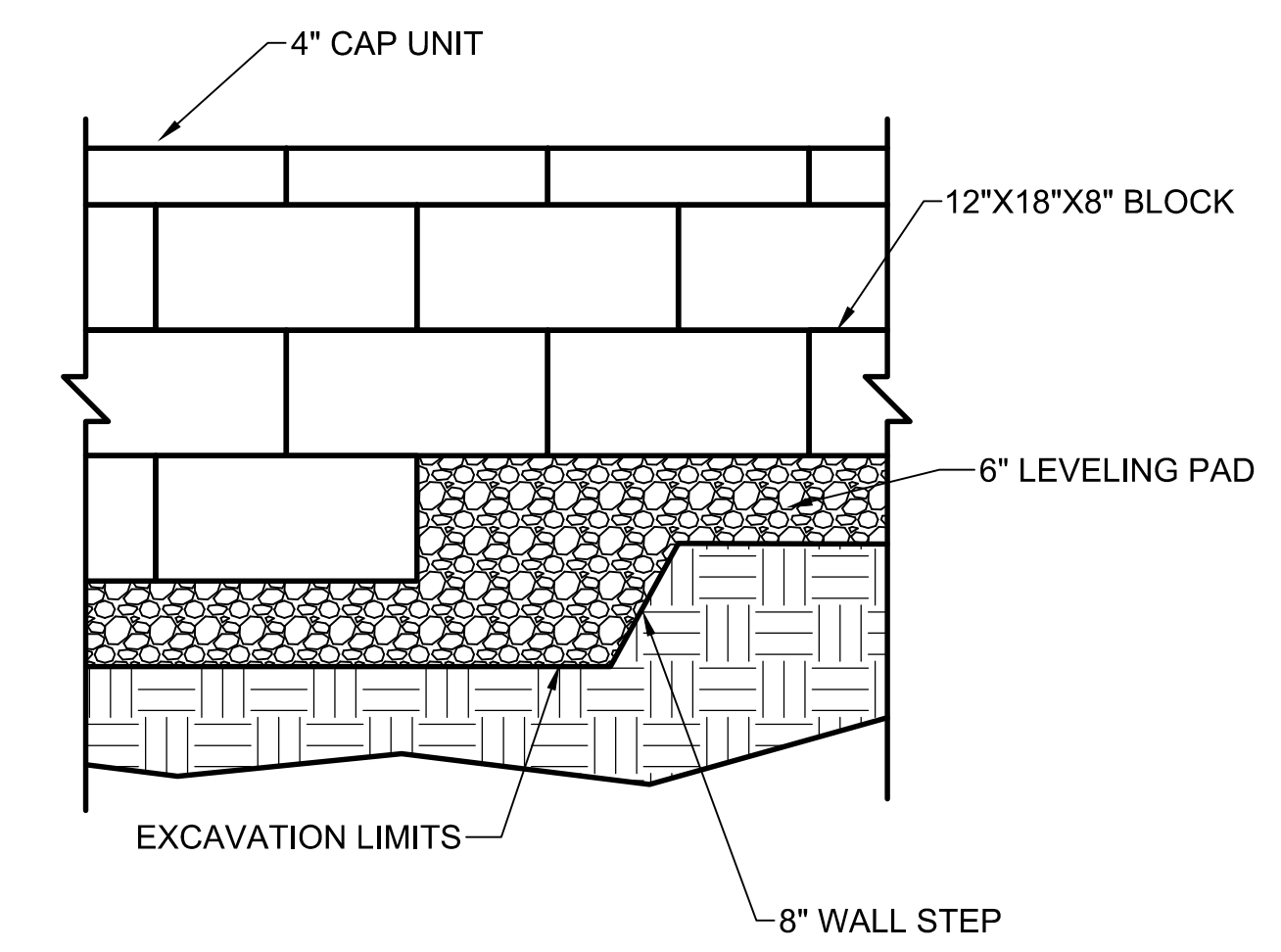


SIDEWALK ADJACENT TO WALL OR BUILDING DETAIL

CONCRETE SIDEWALK  
DETAIL 1  
SCALE: NTS  
C141

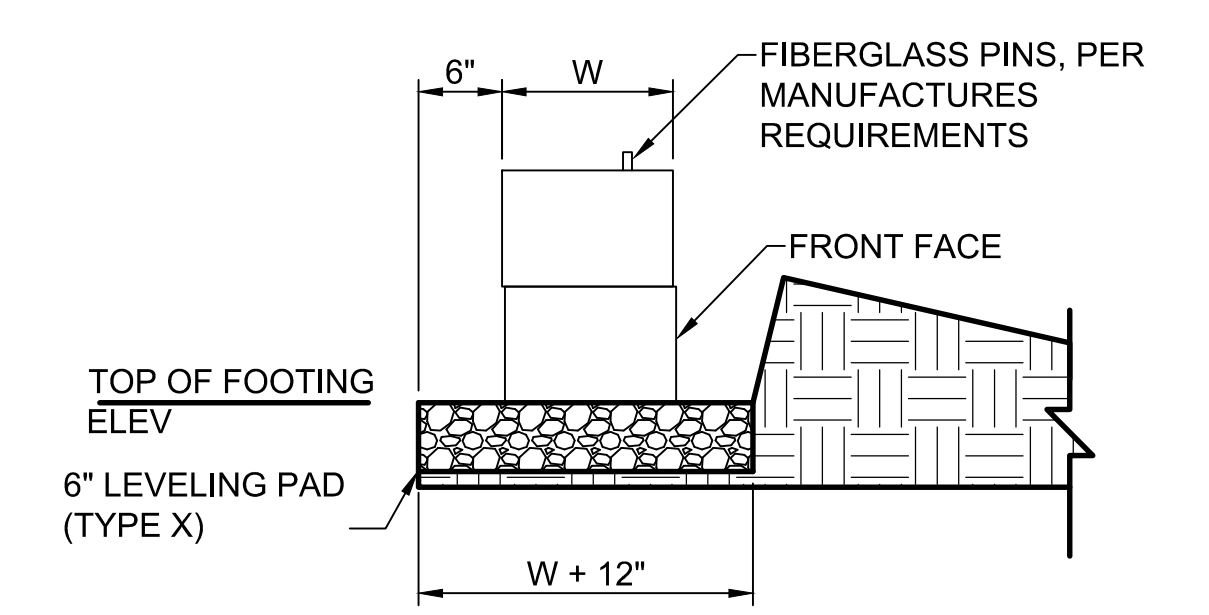


TYPICAL WALL SECTION



WALL ELEVATION

SEGMENTAL CONCRETE BLOCK WALL  
DETAIL 2  
SCALE: NTS  
C133



LEVELING PAD DETAIL

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Dstz=TB-Border  
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PLOT BY: D.Auriga

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MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

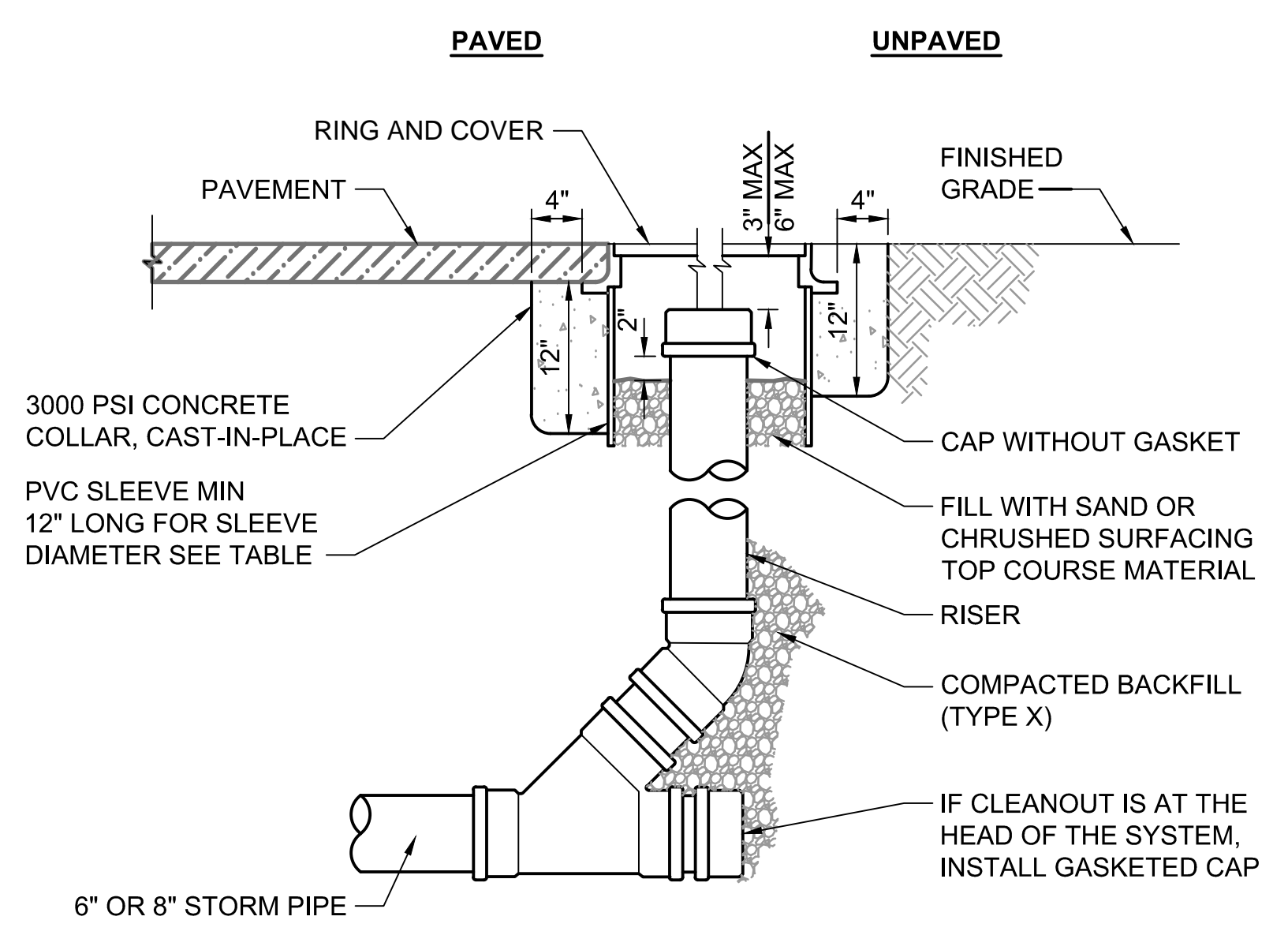
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PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
REFERENCE 1"  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**SITE DETAILS**

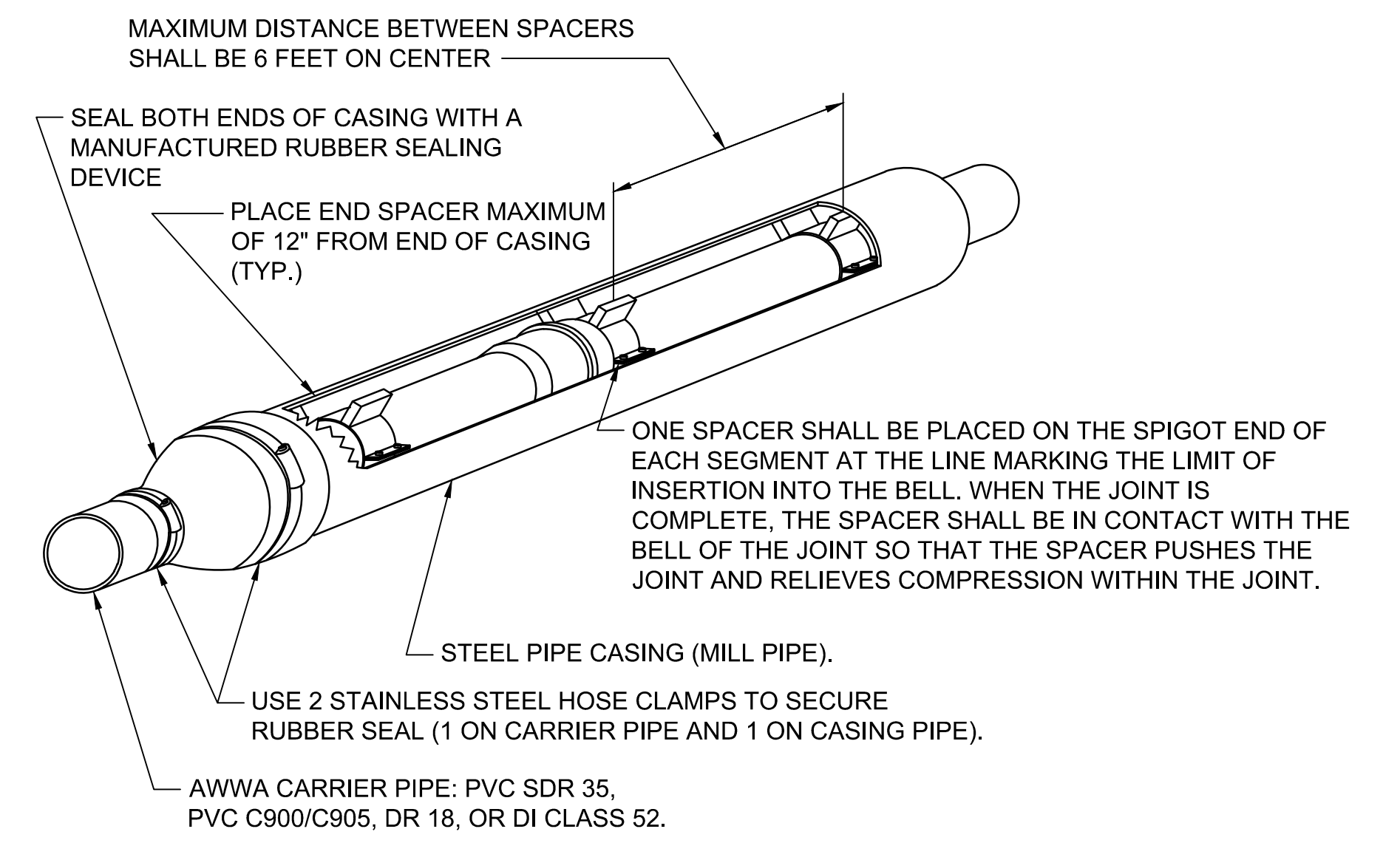
DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>C053</b>	
SHT NO / TOTAL	REV NO:



CO PIPE DIAMETER	RING AND COVER DIAMETER	PVC SLEEVE DIAMETER
4"	12"	12"
6"	14"	15"
8"	14"	15"

- NOTES:**
- BOLT-LOCKING CAST IRON RING AND COVER SHALL BE USED IN PAVED AREAS AND MUST BE RATED HS-20.
  - CAST IRON COVER SHALL READ "DRAIN".
  - LOCKING BOLTS SHALL BE 5/8" - 11 N.C. 304 STAINLESS STEEL SOCKET (ALLEN) HEAD, 2" LONG.

CLEANOUT TO GRADE  
 DETAIL 1  
 SCALE: NTS



CARRIER PIPE DIAMETER	6"	12"	16"	18"
CASING DIAMETER	12"	20"	24"	30"
STEEL CASING THICKNESS	0.25"	0.25"	0.375"	0.50"
SPACER BAND WIDTH	8"	8"	8"	8"

- NOTES:**
- CASING SPACERS SHALL BE "CENTER POSITIONING" TYPE.
  - FOR CASING SPACER INFORMATION, SEE SPEC 33 05 07.24 SECTION 2.03.
  - MINIMUM RUNNER WIDTH SHALL BE 2 INCHES.
  - RUNNER HEIGHT SHALL BE SIZED TO PROVIDE:
    - MINIMUM 0.75" BETWEEN CARRIER PIPE BELL AND CASING PIPE WALL AT ALL TIMES.
    - MINIMUM 1" CLEARANCE BETWEEN RUNNERS AND TOP OF CASING WALL TO PREVENT JAMMING DURING INSTALLATION.
  - STEEL CASING DIAMETERS ARE "OUTSIDE DIAMETER" FOR 16" AND LARGER.
  - SPACER BAND WIDTH SHALL BE 12" FOR CARRIER PIPES THAT ARE 36" DIAMETER OR GREATER.
  - BEDDING SHALL BE PER DETAIL 3 OF DRAWING 1/C123.
  - ANNULAR SPACE TO BE FILLED WITH MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.

CASING INSTALLATION  
 DETAIL 2  
 SCALE: NTS

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Dstz=TB-Board  
 FILE LOCATION: P:\3167200\7000ADD\02CIVIL\Landuse Permit Drawings\Station\E00306E13--NMPS-C061.dwg  
 PLOT DATE: 6/7/2019 4:39 PM  
 PLOTTED BY: D.Aurilio

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 SCALE: AS NOTED  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWN  
 PROJECT ACCEPTANCE: S. YILDIZ



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**MISC  
 DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: C061
SHT NO / TOTAL	REV NO:

**1 CLEARING AND GRUBBING LIMITS**

LABEL	NORTHING	EASTING
A	546937.47	1622515.72
B	546886.64	1622475.79
C	546875.38	1622484.87
D	546868.79	1622477.46
E	546866.56	1622474.96
F	546860.05	1622467.65
G	546867.54	1622460.78
H	546841.32	1622440.19
I	546739.01	1622457.41

**1 CLEARING AND GRUBBING LIMITS**

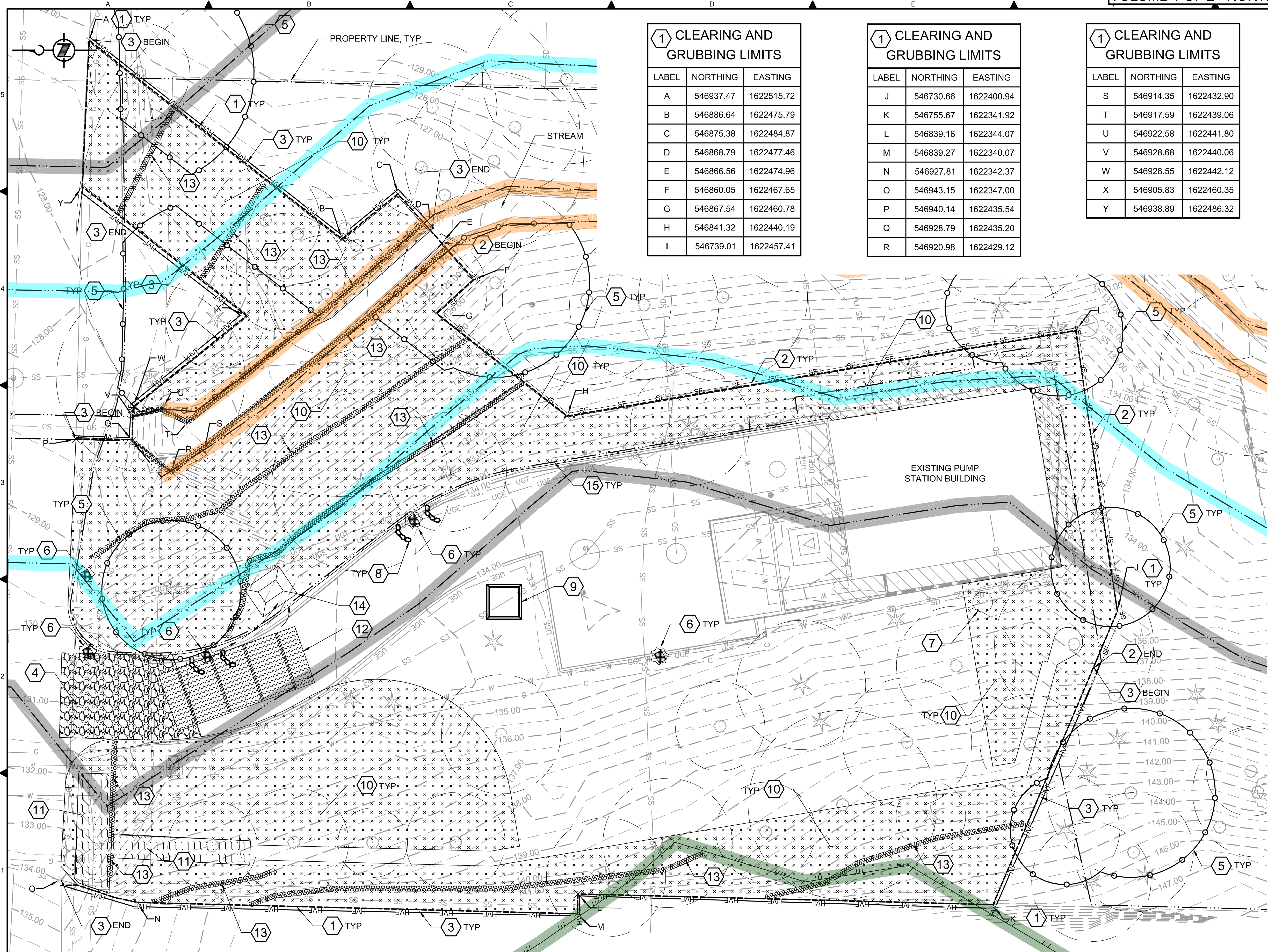
LABEL	NORTHING	EASTING
J	546730.66	1622400.94
K	546755.67	1622341.92
L	546839.16	1622344.07
M	546839.27	1622340.07
N	546927.81	1622342.37
O	546943.15	1622347.00
P	546940.14	1622435.54
Q	546928.79	1622435.20
R	546920.98	1622429.12

**1 CLEARING AND GRUBBING LIMITS**

LABEL	NORTHING	EASTING
S	546914.35	1622432.90
T	546917.59	1622439.06
U	546922.58	1622441.80
V	546928.68	1622440.06
W	546928.55	1622442.12
X	546905.83	1622460.35
Y	546938.89	1622486.32

- # KEY NOTES:**
- PROJECT SITE CLEARING AND GRUBBING LIMITS.
  - SILT FENCE, SEE DETAIL 1/C012.
  - HIGH VISIBILITY FENCE, SEE DETAIL 3/C012.
  - CONSTRUCTION ENTRANCE, SEE DETAIL 2/C015.
  - TREE PROTECTION, SEE DRAWING D-C101 AND DETAIL 4/C012.
  - STORM DRAIN INLET PROTECTION ON ALL NEW AND EXISTING CB'S, SEE DETAIL 2/C012.
  - YARD DRAIN INLET PROTECTION, SEE DETAIL 1/C015.
  - CURB & GUTTER BARRIER PROTECTION, SEE DETAIL 2/C013.
  - CONCRETE WASHOUT BASIN/STRUCTURE.
  - COMPOST COVER, SEE NOTE 2.
  - EROSION CONTROL BLANKET, SEE DETAIL 1/C014.
  - CORRUGATED STEEL RUMBLE PLATE, SEE DETAIL 3/C015.
  - COMPOST SOCK, SEE DETAIL 1/C013.
  - SEDIMENT TRAP AS REQUIRED TO CONTAIN WASHOUT OF RUMBLE PLATE, SEE DETAIL 3/C014.
  - STREAM BUFFER LINE.

- NOTES:**
- SELECTIVE CLEARING IS PROPOSED OUTSIDE OF LIMITS SHOWN. SEE DRAWING L101.
  - COMPOST COVER SHALL BE ORGANIC AMENDMENT, SPREAD TO A 3" UNIFORM DEPTH IN THE AREAS SHOWN IN THE PLANS.
  - UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCWTD-2012-Dstze-TB-Border  
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 PLOT DATE: 9/26/2019 4:17 PM  
 PLOTTED BY: D.Aurig, liscgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
R. LUDWIG  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 10'  
 REFERENCE  
 FACILITY NUMBER:  
333  
 CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**TESC**  
**SURFACE RUNOFF**  
**MANAGEMENT PLAN**

DCN:

DATE: 05/02/2019

PROJECT FILE NO:

DRAWING NO: **C101**

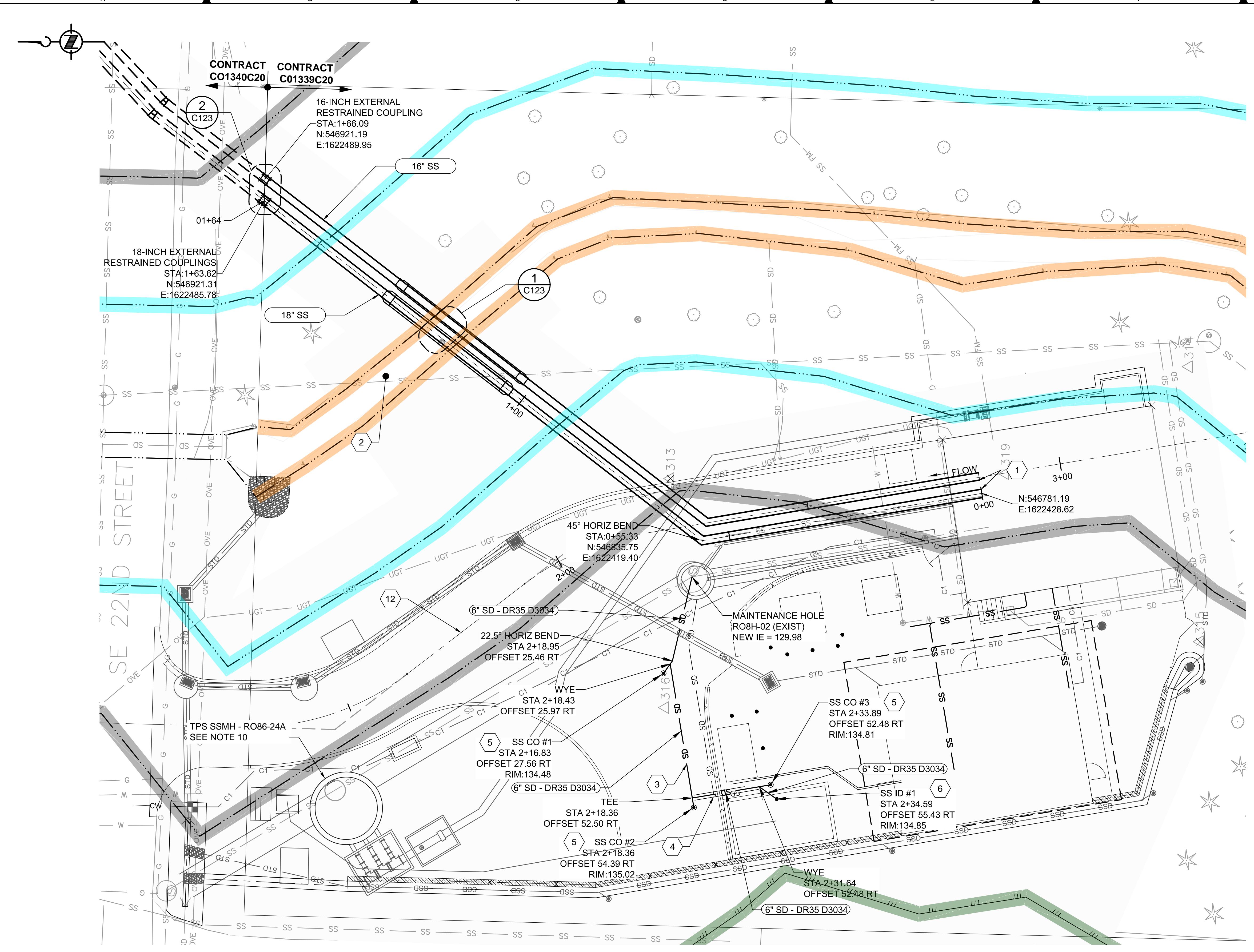
SHT NO / TOTAL	REV NO.
XXX /	

- # KEY NOTES:**
- STATION 0+00 CORRESPONDS TO THE OUTSIDE FACE OF THE WALL PENETRATION INTO THE EXISTING PUMP STATION BUILDING. SEE DRAWING M202 FOR FORCE MAIN CONTINUATION.
  - FOR TEMPORARY STREAM DIVERSION INFORMATION, SEE DRAWING T-C101.
  - 6" SD BIOXIDE TANK SUMP DRAIN, SEE PROFILE DRAWING C122.
  - 10 LF CASING, SEE DETAIL 2/C061.
  - 6" CLEANOUT, SEE DETAIL 5/M013.
  - 6" INLINE DRAIN AND P-TRAP, SEE DETAIL 1/C022.

- NOTES:**
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  - PROTECT EXISTING UTILITIES AND UTILITY POLES WHERE CLOSE TO ALIGNMENT.
  - DEFLECT SS AS NECESSARY TO 80% OF MANUFACTURER'S MAX ALLOWABLE DEFLECTION.
  - 16 INCH AND 18 INCH SS WILL BE CL 52 DI UNLESS OTHERWISE NOTED. CL MAY BE INCREASED AS NEEDED FOR FITTINGS, SPOOLS AND APPURTENANCES PER MANUFACTURER REQUIREMENTS OR RECOMMENDATIONS. THE PIPELINES SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
  - UNLESS OTHERWISE SHOWN, AT BENDS PROVIDE THE SAME TYPE FITTINGS FOR THE 16 INCH SS AS ARE SHOWN FOR THE 18 INCH SS AND LOCATE PER THE TRENCH SECTION SHOWN IN THE PROFILE ON DRAWING C122.
  - PIPE BEDDING AND BACKFILL INFORMATION SEE DETAIL 3/C021.
  - SEE M101 FOR SEWER LINES BETWEEN GENERATOR BUILDING AND PUMP STATION BUILDING.
  - SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
  - TEMPORARY MANHOLE, PUMPING STATION AND PIPELINE INFORMATION, SEE DRAWING T-C101.

**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



BORDER FILE EDITION: KCVTD-2012-Dstz-TB-Border  
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 PLOT DATE: 9/26/2019 4:20 PM  
 PLOTTED BY: D.Aurig, lsdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

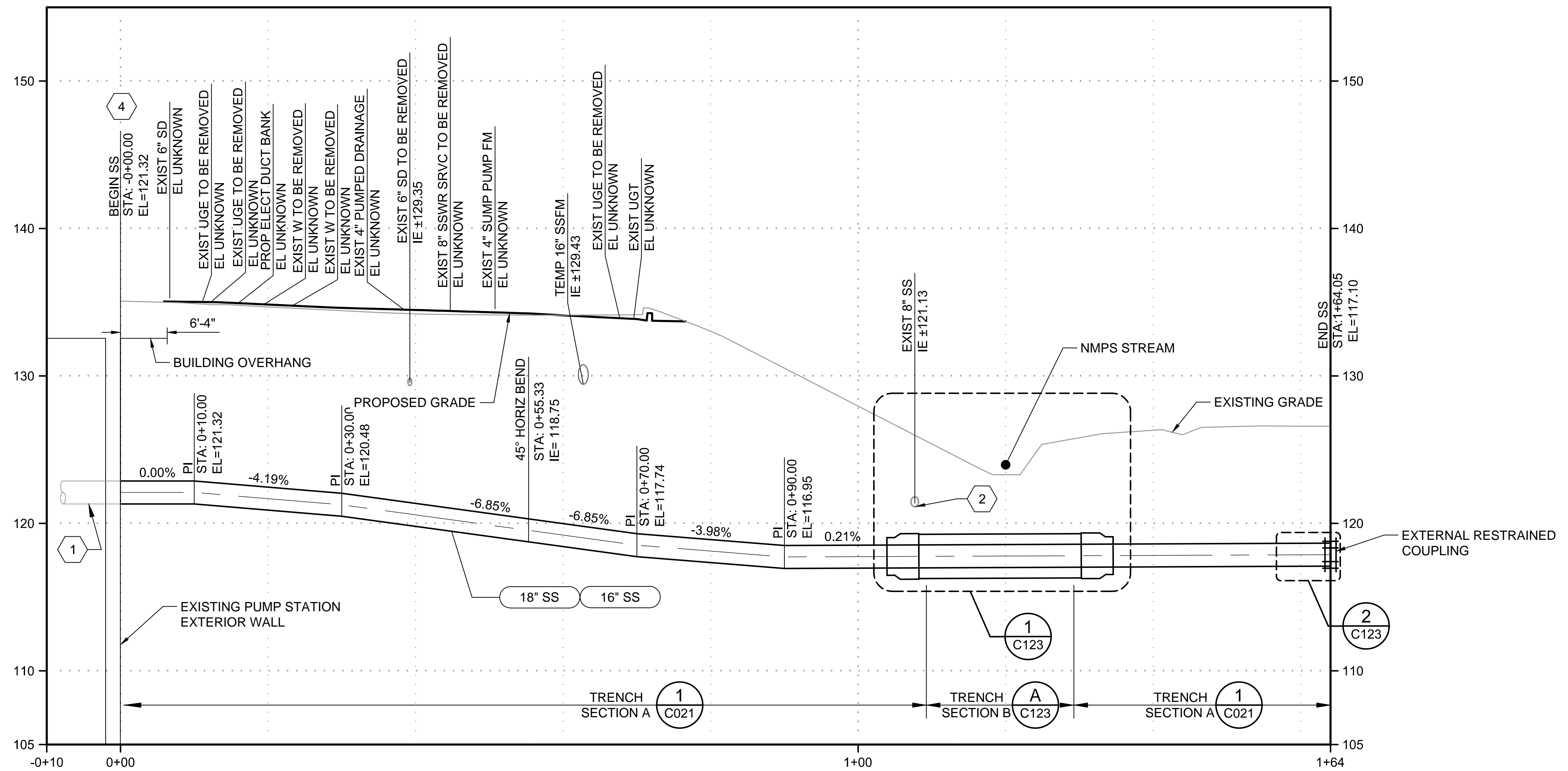
DESIGNED/DRAWN: B. NELSON  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1:10  
 REFERENCE 1"

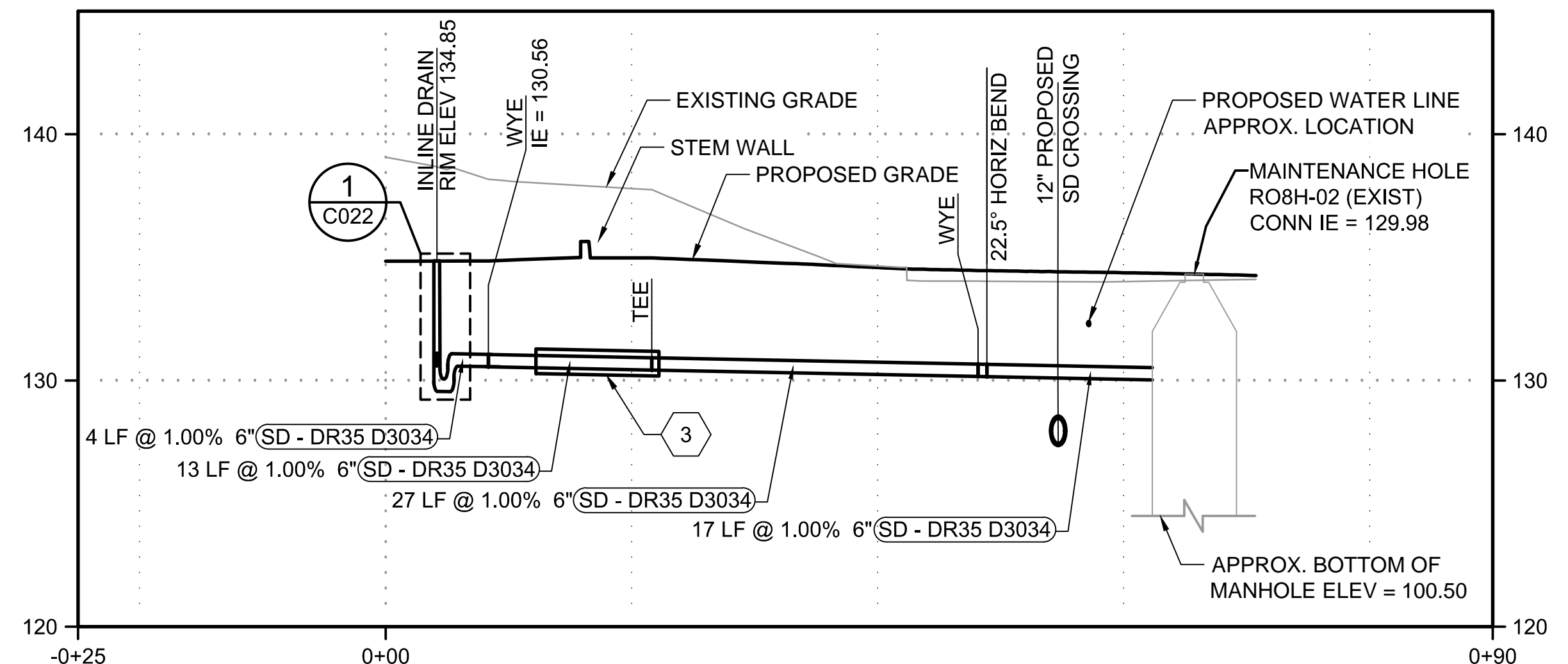


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**SEWER PLAN**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C121</b>
SHT NO / TOTAL	REV NO:



**FORCE MAIN PROFILE**  
SCALE: HORZ - 1" = 10'  
VERT - 1" = 5'



**BIOXIDE TANK SUMP DRAIN PROFILE**  
SCALE: HORZ - 1" = 10'  
VERT - 1" = 5'

- # KEY NOTES:**
- SEE DRAWING M202 FOR FORCE MAIN CONTINUATION.
  - PROVIDE SUPPORT FOR EXIST SS PIPE WHERE EXPOSED DURING TRENCH EXCAVATION.
  - 10 LF CASING, SEE DETAIL 2/C061.
  - INVERT ELEVATION SHOWN IS FOR THE 18" SS PIPELINE. THE INVERT ELEVATION FOR THE 16" SS PIPELINE AT THIS LOCATIONS IS 121.41. MAINTAIN THIS PIPE ELEVATION TO STATION 0+10 AND THEN TRANSITION 16" PIPELINE INVERT TO MATCH THAT OF THE 18" PIPELINE ELEVATION.

- NOTES:**
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  - PROTECT EXISTING UTILITIES AND UTILITY POLES WHERE CLOSE TO ALIGNMENT.
  - DEFLECT FM AS NECESSARY TO 80% OF MANUFACTURER'S MAX ALLOWABLE DEFLECTION.
  - 16 INCH AND 18 INCH SS WILL BE CL 52 DI UNLESS OTHERWISE NOTED. CL MAY BE INCREASED AS NEEDED FOR FITTINGS, SPOOLS AND APPURTENANCES PER MANUFACTURER REQUIREMENTS OR RECOMMENDATIONS. THE PIPELINES SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
  - UNLESS OTHERWISE SHOWN, AT BENDS PROVIDE THE SAME TYPE FITTINGS FOR THE 16 INCH SS AS ARE SHOWN FOR THE 18 INCH SS AND LOCATE PER THE TRENCH SECTION SHOWN ON DWG C021.
  - REFER TO DRAWING M223 FOR PIPE BONDING DETAILS.

**FOR REFERENCE ONLY**

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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN:  
B. NELSON  
PROJECT ENGINEER:  
J. CHAE  
DESIGN APPROVAL:  
R. BROWNE  
PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 10'  
0 REFERENCE 1"  
FACILITY NUMBER:  
333  
CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**SEWER PROFILE**

DCN:	DATE:	05/02/2019
PROJECT FILE NO.:	DRAWING NO.:	<b>C122</b>
SHT NO / TOTAL	REV NO.	/

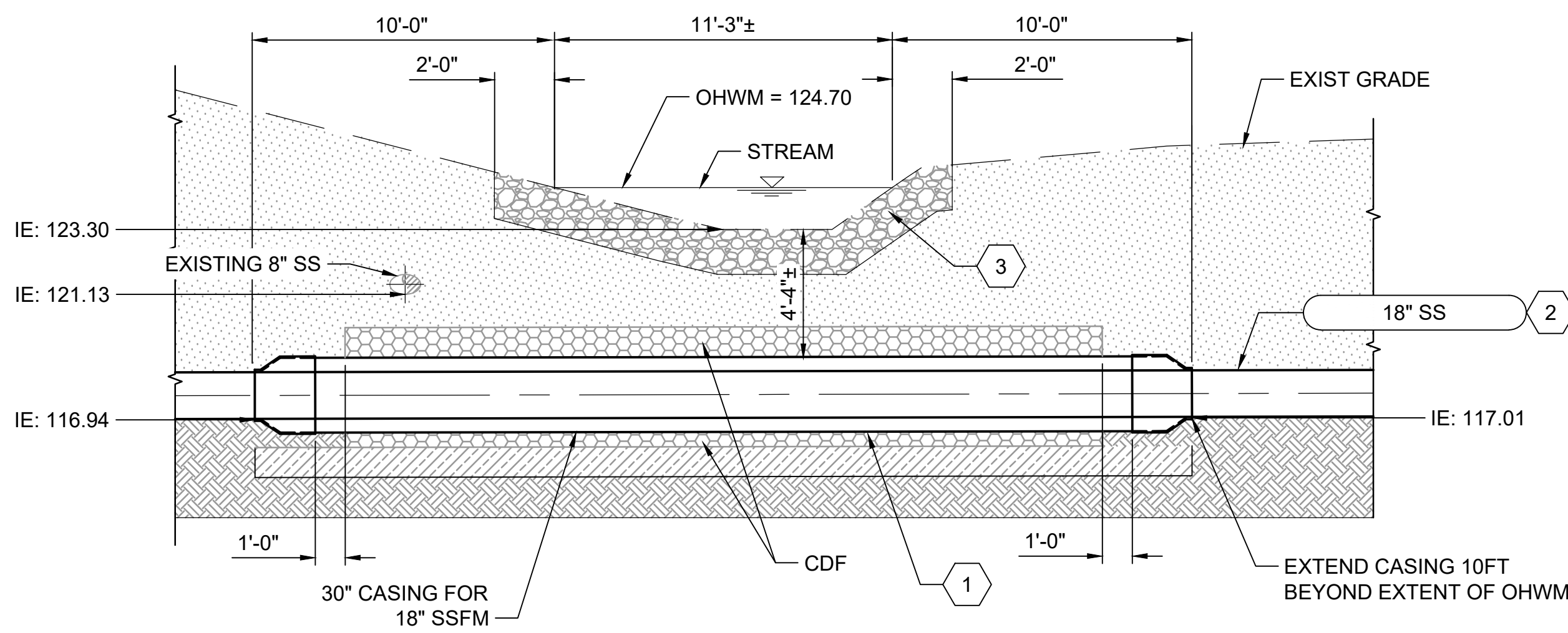
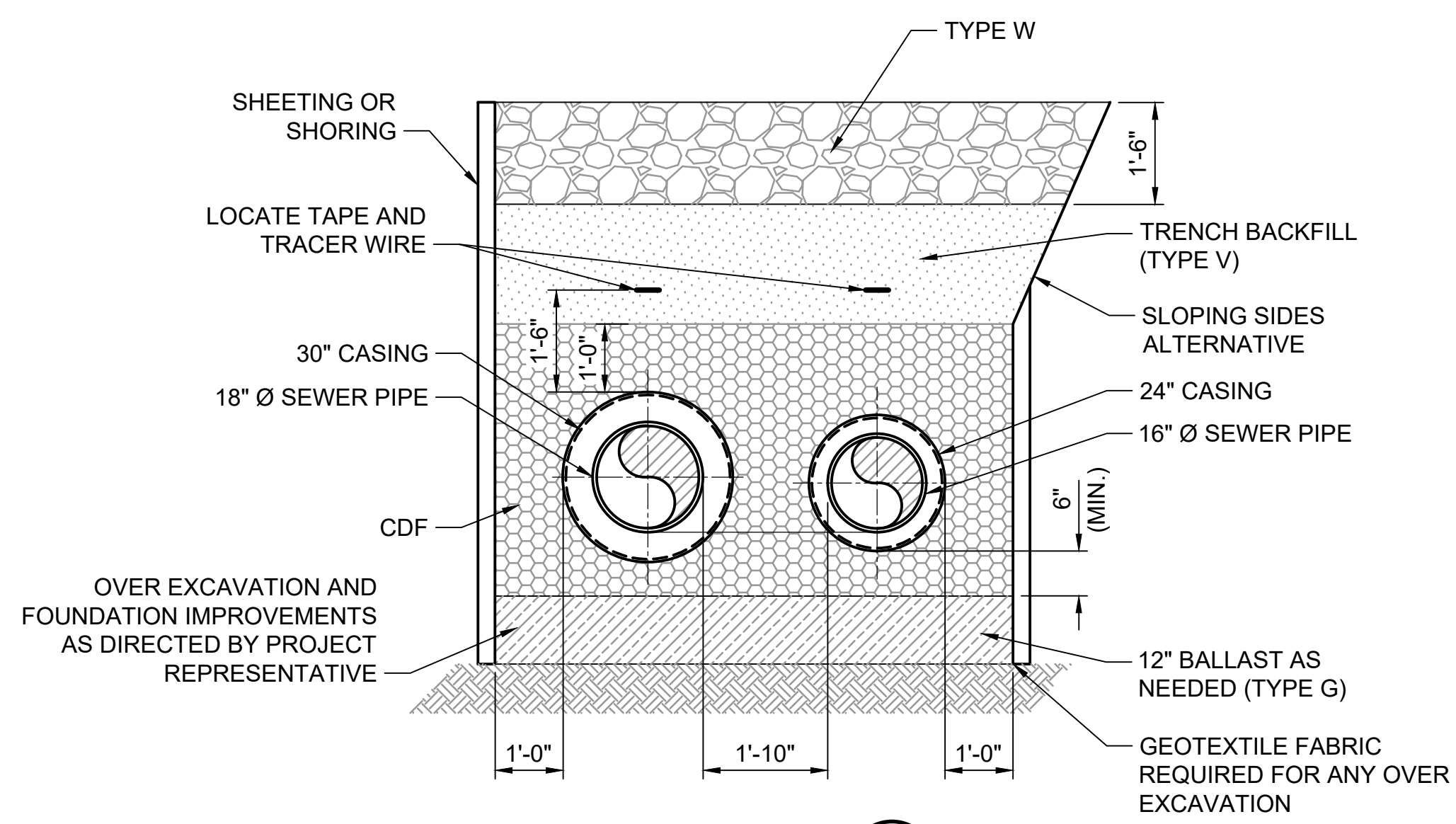


# KEY NOTES:

- REFER TO DETAIL 2 ON SHEET C061 FOR CASING INSTALLATION DETAILS.
- THE 16" SS INVERTS TO MATCH 18" SS INVERTS.
- REINSTATE TOP 1.5 FT OF CREEK PROFILE WITH WSDOT STREAMBED COBBLES -10" (TYPE W) MATERIAL. EXTEND THE STREAMBED COBBLES 2 FT HORIZONTALLY BEYOND THE OHWM.
- STAKE POSITIONED AT THE EDGE OF THE TRENCH TO BE REMOVED BY THIS CONTRACTOR.
- CONCRETE THRUST BLOCKS TO BE REMOVED BY THIS CONTRACTOR.
- PIPE CAPS TO BE REMOVED BY THIS CONTRACTOR.
- LOCATE TAPE AND TRACER WIRE FOR BURIED PIPE IN ACCORDANCE WITH THE SPECIFICATIONS. CONNECT TRACER WIRE OF BOTH CONTRACTS.

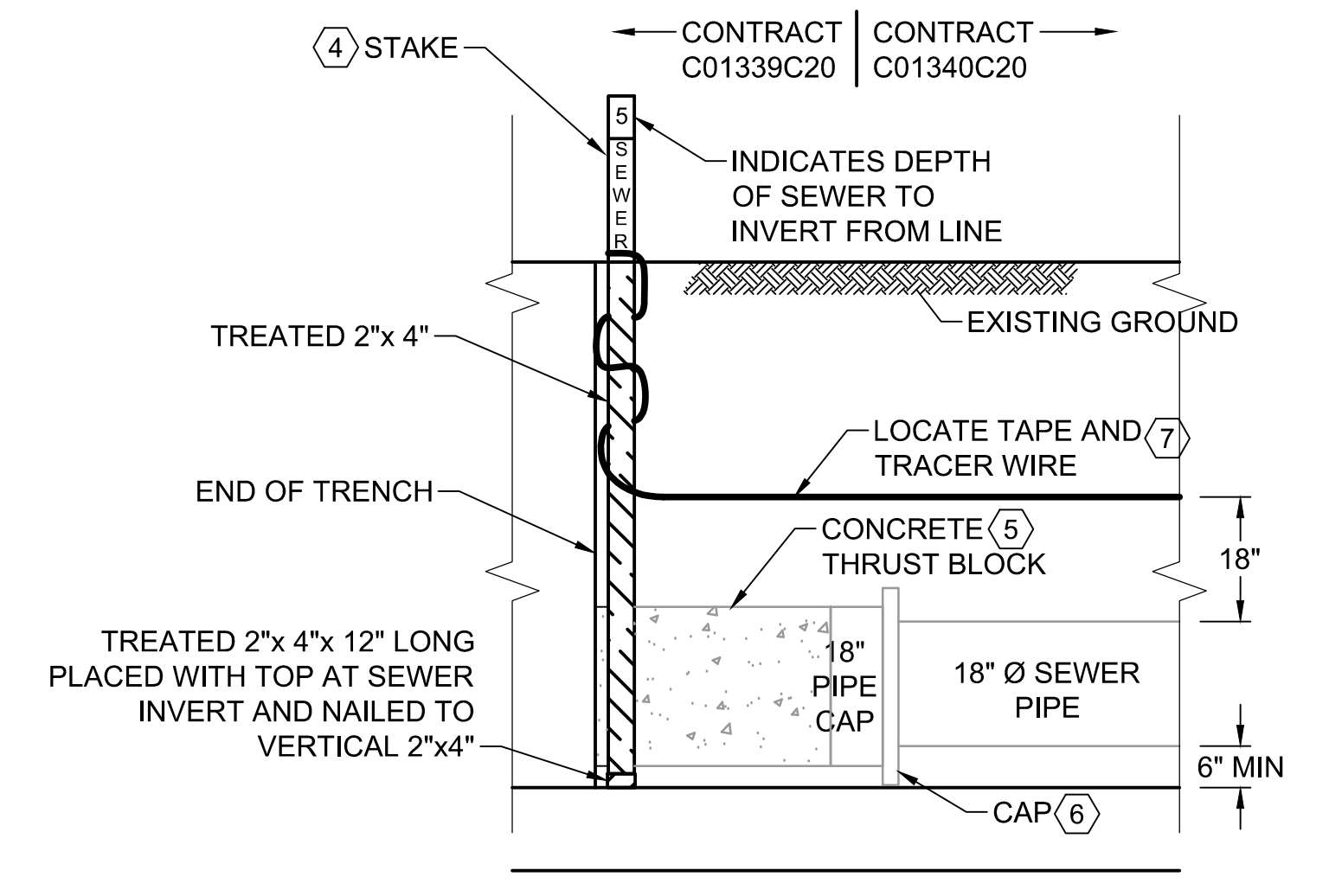
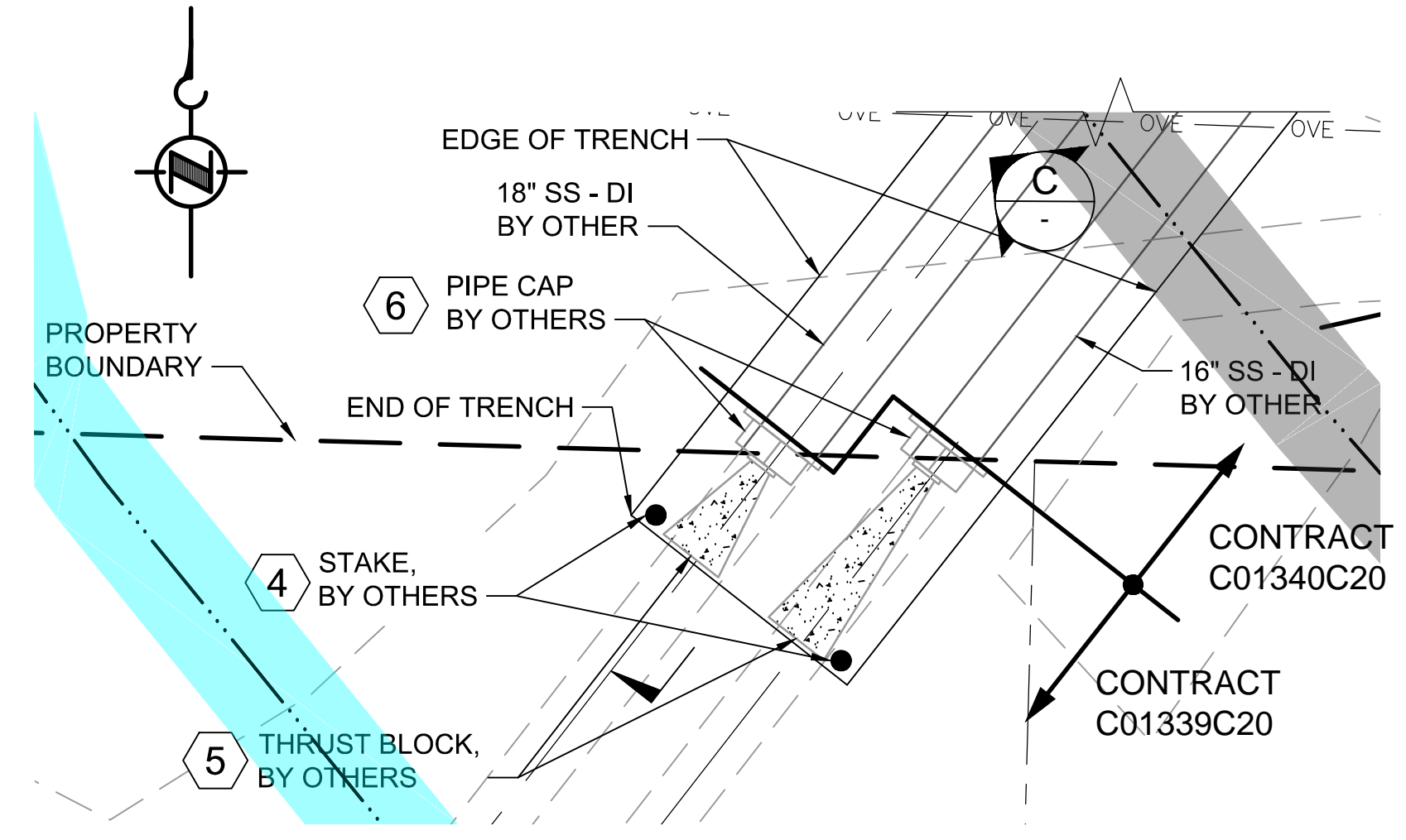
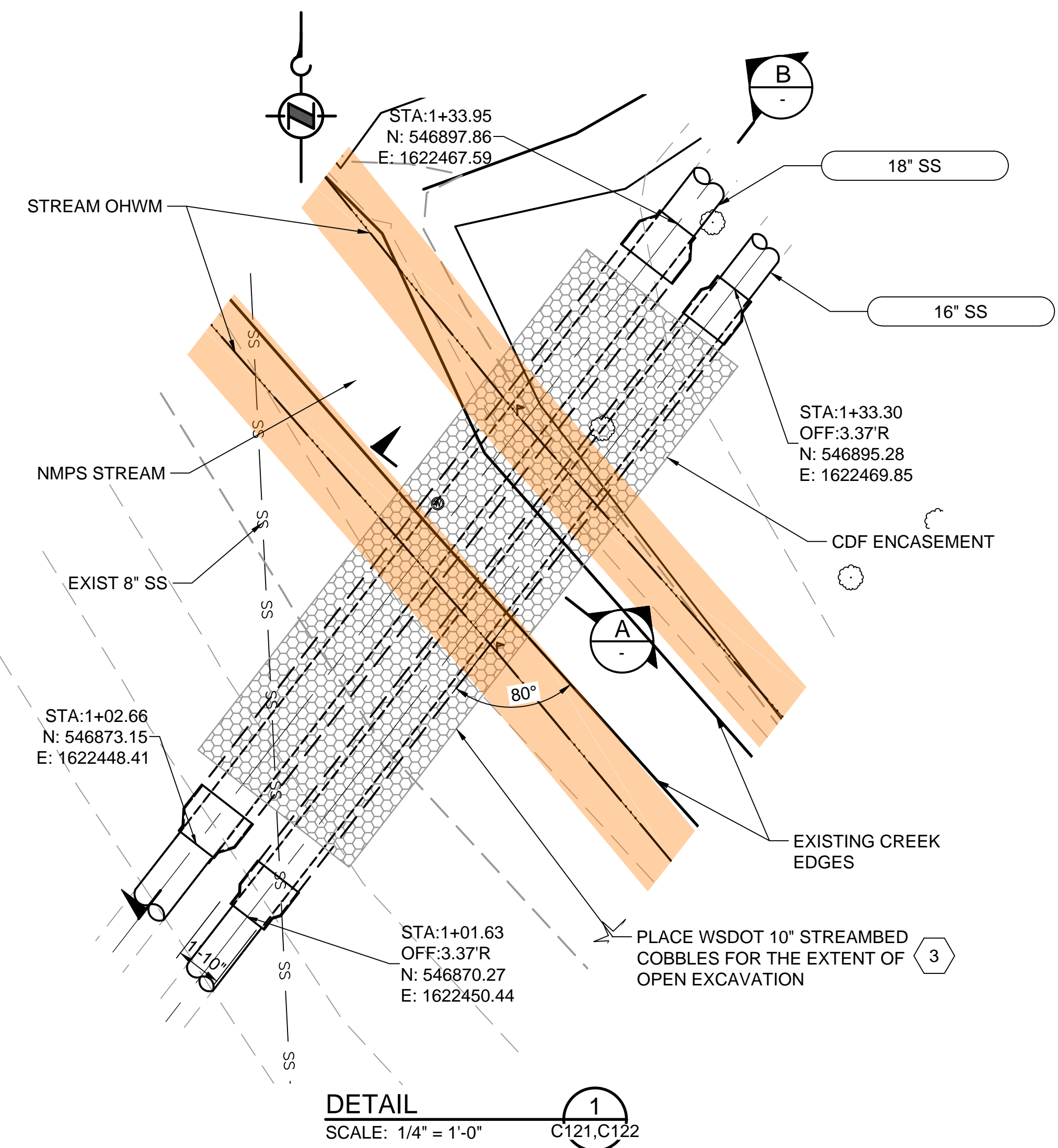
NOTES:

- CONTRACTOR TO PROVIDE A TEMPORARY DIVERSION ARRANGEMENT FOR THE FLOW RATES AND REQUIREMENTS NOTED IN SPECIFICATIONS.
- THE FORCEMAINS NORTH OF THE PROPERTY LINE TO BE CONSTRUCTED AS PART OF CONTRACT C01340C20 AND INCLUDE PLAIN END PIPES WITH CAPS AND THRUST BLOCKS. THIS WORK TO BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONTRACT C01339C20. INTERIM CONDITION TO REFLECT COMPLETION OF CONTRACT C01340C20.
- CONTRACTOR TO FIELD VERIFY THE LOCATION PRIOR TO TRENCH EXCAVATION. FINAL CONNECTION TO BE MADE WITH EXTERNAL RESTRAINT COUPLINGS FOLLOWING PRESSURE TESTING OF CONTRACT C01340C20. THE CATHODIC PROTECTION CONNECTION TO THE NORTH SANITARY SEWER FORCEMAIN TO BE MADE BY THE CONTRACTOR.



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



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 PLOTTED BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
 REFERENCE 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20

DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**NMPS FORCE MAIN CREEK CROSSING**

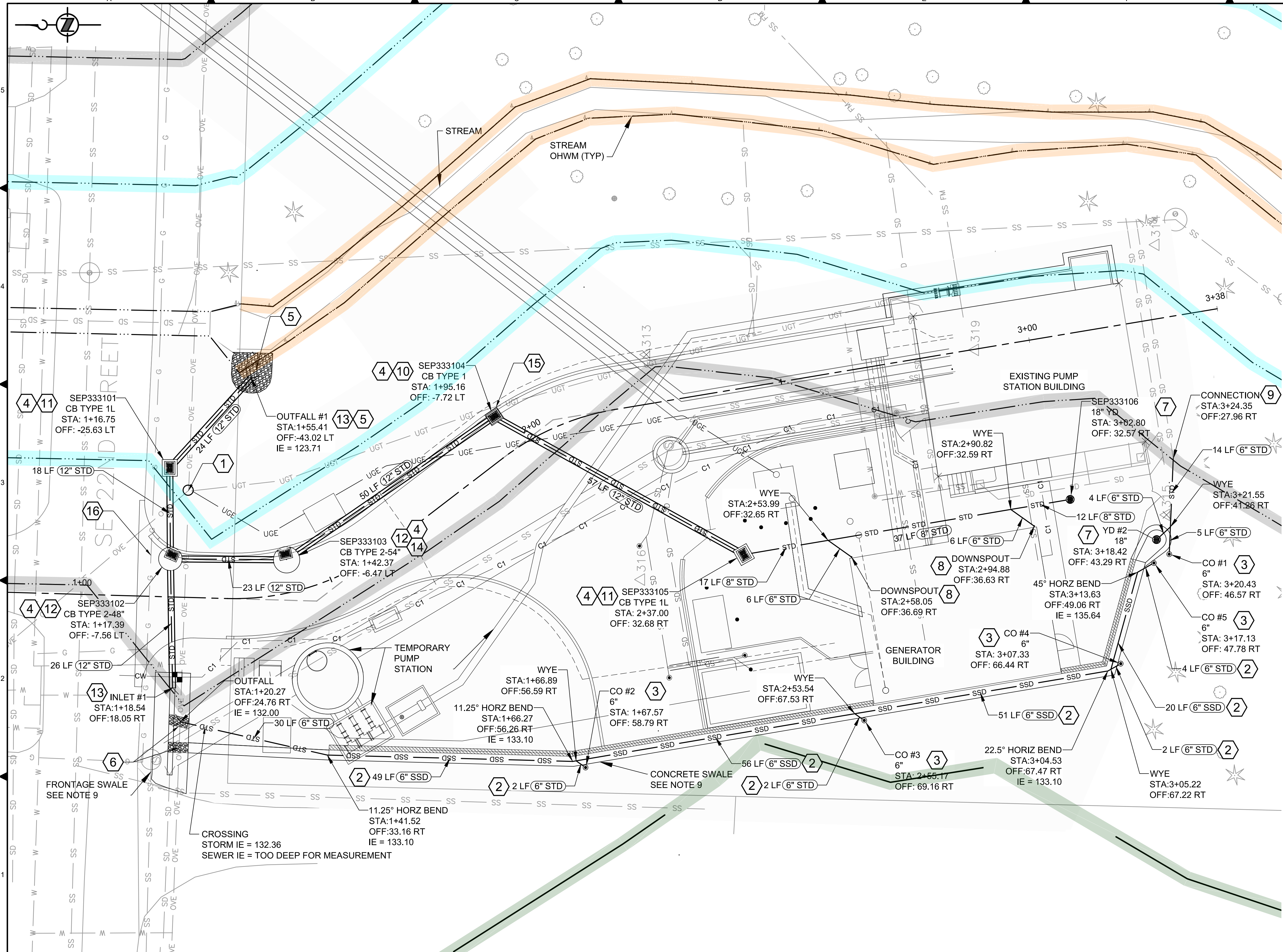
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PROJECT FILE NO:	DRAWING NO: C123
SHT NO / TOTAL	REV NO:

- # KEY NOTES:**
1. PROVIDE SUPPORT FOR UTILITY POLE. COORDINATE WITH UTILITY COMPANY.
  2. 6" WALL DRAIN, SEE DETAIL 3/C035 AND DRAWING C134 FOR PROFILE.
  3. 6" CLEANOUT, SEE DETAIL 1/C061.
  4. VANED GRATE, SEE DETAIL 1/C033.
  5. OUTFALL PROTECTION. SUPPLEMENT EXISTING PAD AS DIRECTED BY PROJECT REPRESENTATIVE, SEE DETAIL 2/C036.
  6. ENERGY DISSIPATION PAD, SEE DETAIL 1/C036.
  7. YARD DRAIN. SEE DETAIL 1/C034.
  8. DOWNSPOUT, SEE DETAIL 4/C036.
  9. CONNECT TO EXISTING STORM PIPE WITH 6"x8" REDUCER. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
  10. TYPE 1 CB, SEE DETAIL 1/C031.
  11. TYPE 1L CB, SEE DETAIL 2/C031.
  12. TYPE 2 CB, SEE DETAIL 1/C032.
  13. BEVELED END PIPE SECTION, SEE DETAIL 2/C033.
  14. SPILL CONTROL ON OUTLET PIPE, SEE DETAIL 1/C035.
  15. PROTECT IN PLACE UNDERGROUND TELEPHONE LINE DURING CONSTRUCTION.
  16. PROTECT IN PLACE UNDERGROUND GAS LINE DURING CONSTRUCTION.

- NOTES:**
1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  3. PIPE BEDDING AND BACKFILL INFORMATION PER DETAIL 3/C033.
  4. SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
  5. SEE TEMPORARY FACILITIES CIVIL SITE PLAN DRAWING T-C101 FOR TEMPORARY PUMP STATION AND PIPING LOCATIONS.
  6. SEE TESC DRAWING C101 FOR SWALE INFORMATION.
  7. SEE DRAWING C125 FOR STORM DRAINAGE PROFILE INFORMATION.
  8. SEE DRAWING C134 FOR WALL DRAIN PROFILE INFORMATION.
  9. SEE DRAWING C141 FOR GRASS LINED AND CONCRETE SWALE INFORMATION.
  10. SEE MECHANICAL DRAWING M303 FOR SS BETWEEN PUMP BUILDING AND GENERATOR BUILDING.

**CRITICAL AREAS LEGEND**

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BORDER FILE EDITION: KCVTD-2012-Dstz=TB-Board  
 FILE LOCATION: \\3167200\700CADD\02CIVIL\Landuse Permit Drawings\Station\00306E13-NMPS-C124.dwg  
 PLOT DATE: 9/27/2019 9:05 AM  
 PLOTTED BY: D.Aurig, lsdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1" = 10'  
 REFERENCE  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE PLAN**

DCN:

DATE: 05/02/2019

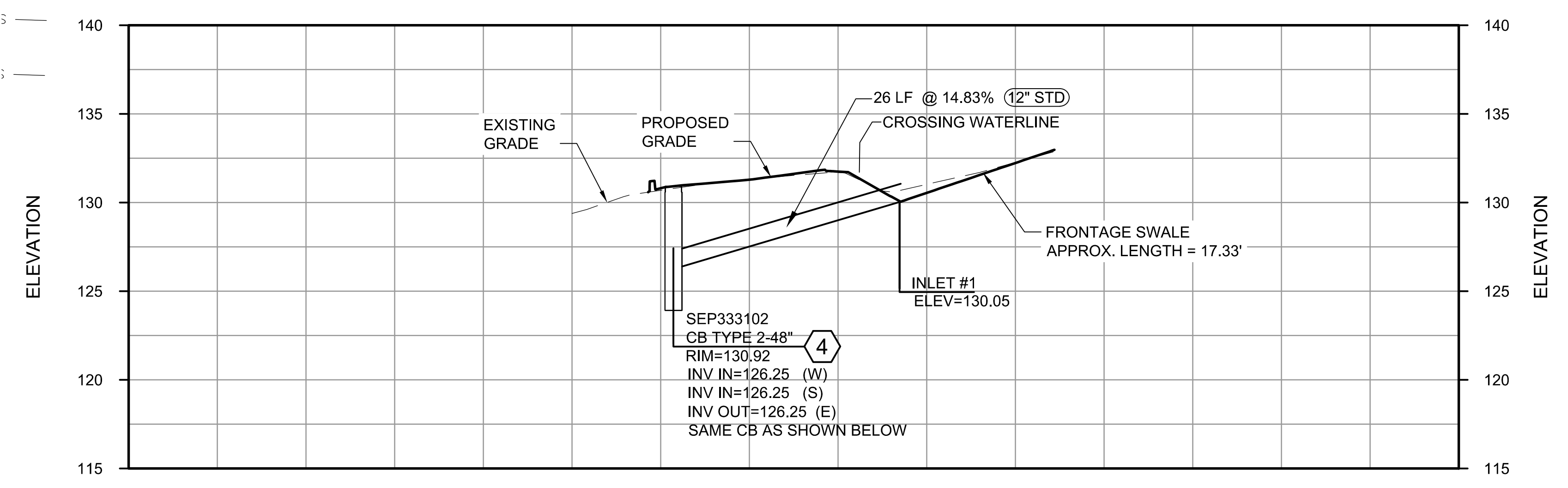
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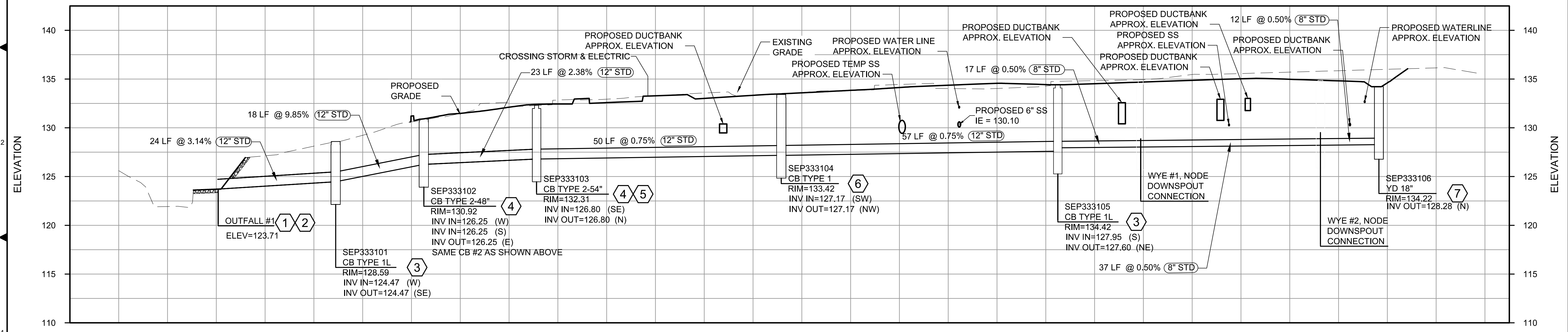
SHT NO / TOTAL: /

REV NO:

- # KEY NOTES:**
1. OUTLET PROTECTION PAD, SUPPLEMENT EXISTING PAD AS DIRECTED BY THE PROJECT REPRESENTATIVE, SEE DETAIL 2/C036.
  2. BEVELED END PIPE SECTION, SEE DETAIL 2/C033.
  3. TYPE 1L CB, SEE DETAIL 2/C031.
  4. TYPE 2 CB, SEE DETAIL 1/C032.
  5. SPILL CONTROL ON OUTLET PIPE, SEE DETAIL 1/C035.
  6. TYPE 1 CB, SEE DETAIL 1/C031.
  7. YARD DRAIN, SEE DETAIL 1/C034.
- NOTES:**
1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  3. PIPE BEDDING AND BACKFILL INFORMATION PER DETAIL 3/C033.
  4. SEE DRAWING C124 FOR STORM DRAINAGE PLAN.
  5. CROSSINGS WITH OTHER UTILITIES SHALL HAVE MINIMUM 12" COVER.
  6. SEE MECHANICAL DRAWING M303 FOR SS BETWEEN PUMP BUILDING AND GENERATOR BUILDING.



**CB #2 TO INLET #1 PROFILE**  
SCALE: HORZ - 1" = 10'  
VERT - 1" = 5'



**OUTFALL TO YD #1 PROFILE**  
SCALE: HORZ - 1" = 10'  
VERT - 1" = 5'

**FOR REFERENCE ONLY**

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FILE LOCATION: P:\3167200\700CADD\02CIVIL\NMP\S\00306E13-NMPS-C125.dwg  
PLOT DATE: 9/25/2019 1:55 PM  
PLOT BY: D. Aurig, isdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1" = 10'  
REFERENCE: 0  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20

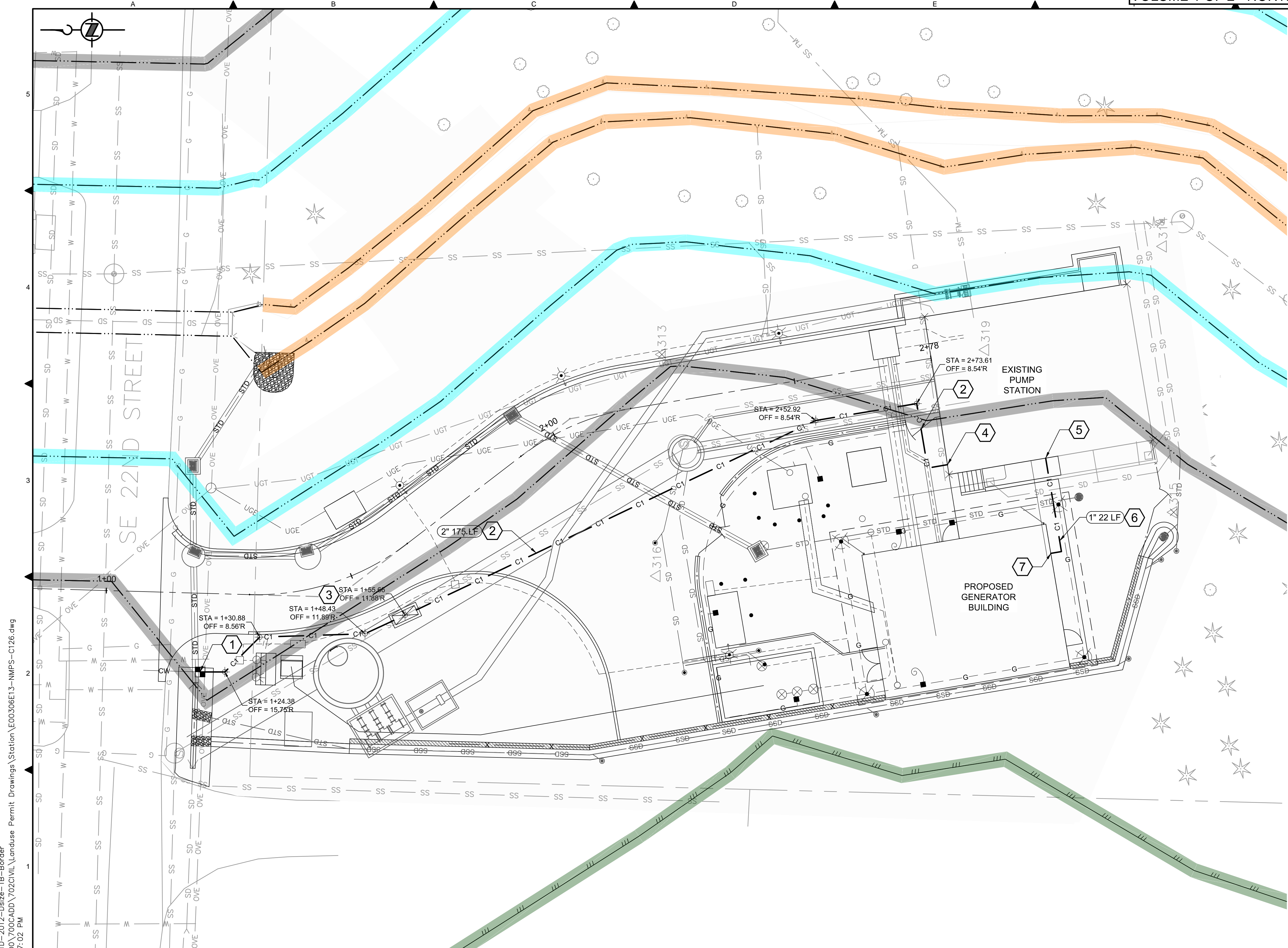


DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**STORM DRAINAGE PROFILES**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C125</b>
SHT NO / TOTAL	REV NO:

- # KEY NOTES:**
- 2" WATER METER INSTALLED BY OTHERS.
  - WATER SERVICE LINE, SEE DETAIL 1/C041.
  - PRESSURE REDUCER BACKFLOW ASSEMBLY, SEE DETAIL 4/M011.
  - 2" WATER LINE TO ENTER THE BUILDING, SEE DRAWING M226.
  - 1" WATERLINE TO EXIT THE BUILDING, SEE DRAWING M226.
  - 1" WATER LINE, SEE DETAIL 1/C041.
  - 1" WATER LINE TO ENTER THE BUILDING, SEE DRAWING M226.

- NOTES:**
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  - SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
  - WATER SERVICE LINE ALIGNMENT IS APPROXIMATE. CONTRACTOR TO FIELD LOCATE AS REQUIRED.



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCWTD-2012-Dstz=TB-Border  
 FILE LOCATION: P:\3167200\700CADD\02CIVIL\Landuse Permit Drawings\Station\E00306E13--NMPS-C126.dwg  
 PLOT DATE: 9/26/2019 7:02 PM  
 PLOTTED BY: D. Aurig, lsdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1" = 10'  
 REFERENCE 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**WATER UTILITY PLAN**

DCN:

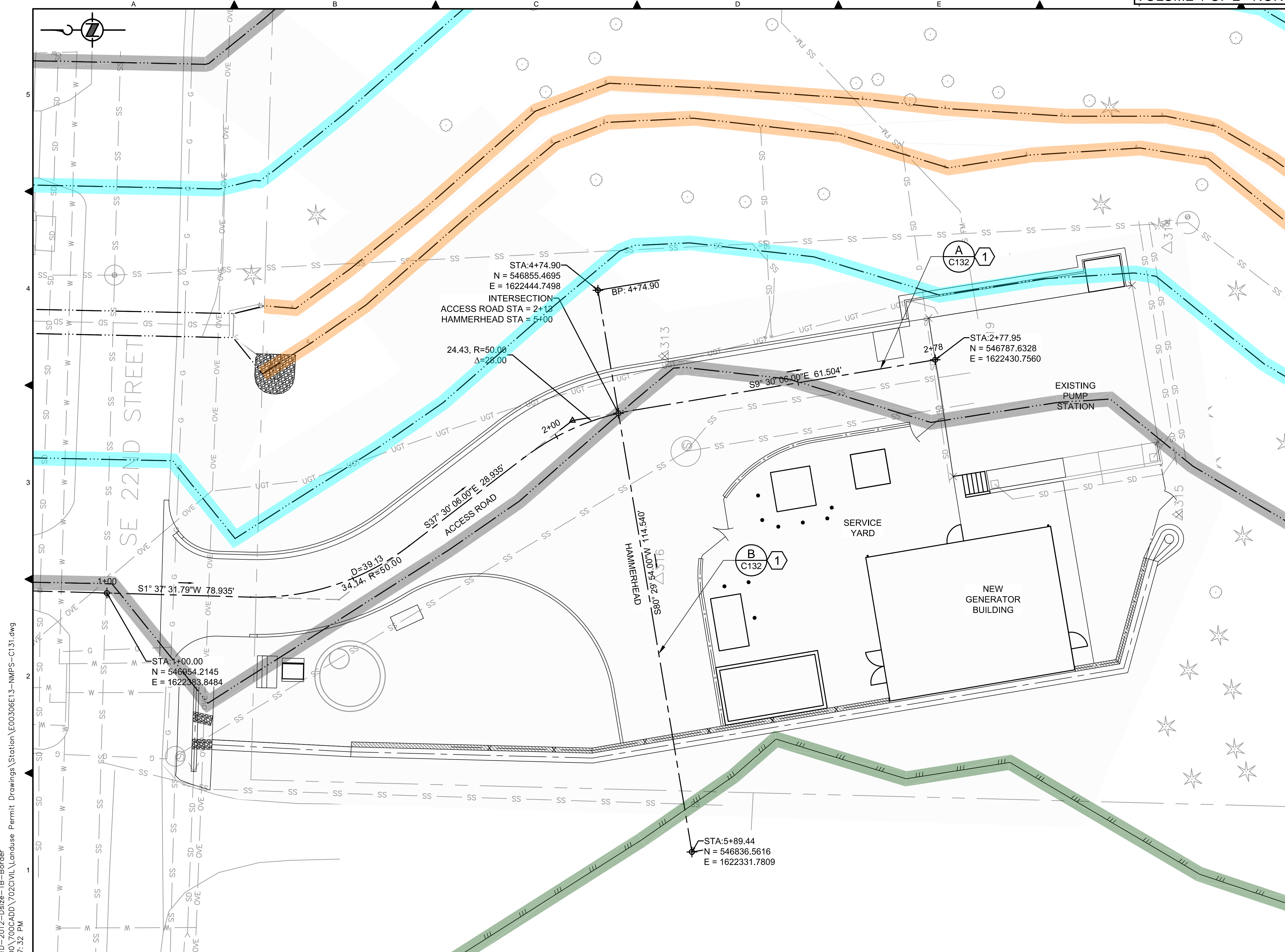
DATE: 05/02/2019

PROJECT FILE NO:

DRAWING NO: **C126**

SHT NO / TOTAL REV NO:

- # KEY NOTES:**
- ACCESS ROAD. SEE DETAIL 1/C051 FOR TYPICAL ROADWAY SECTIONS.
- NOTES:**
- SEE DRAWING C141 FOR CURB RETURN INFORMATION.
  - UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCMWD-2012-Dstze-TB-Border  
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 PLOT DATE: 9/26/2019 7:52 PM  
 PLOTTED BY: D. Aurig, lisdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

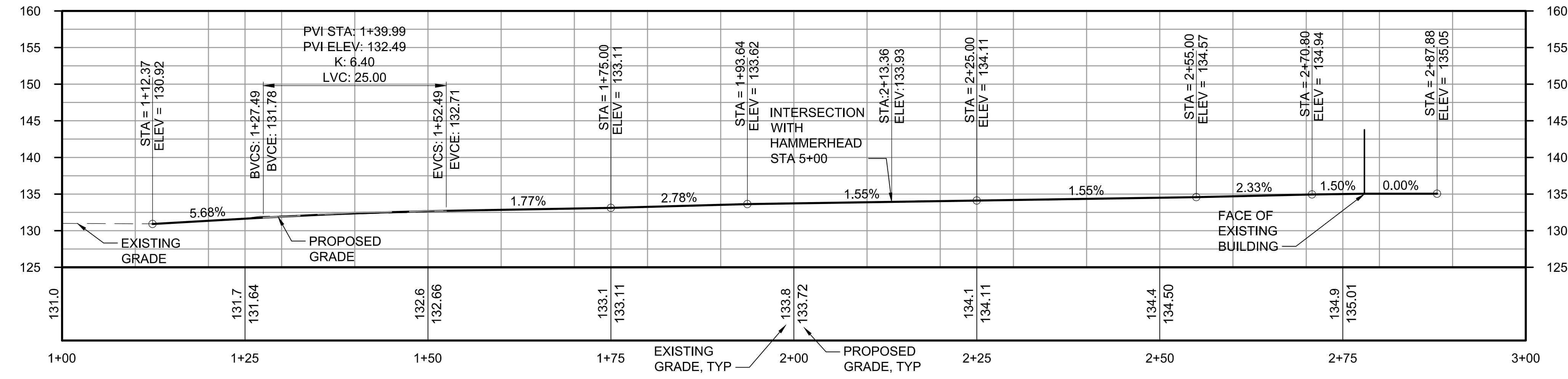
SCALE: 1" = 10'  
 REFERENCE: 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



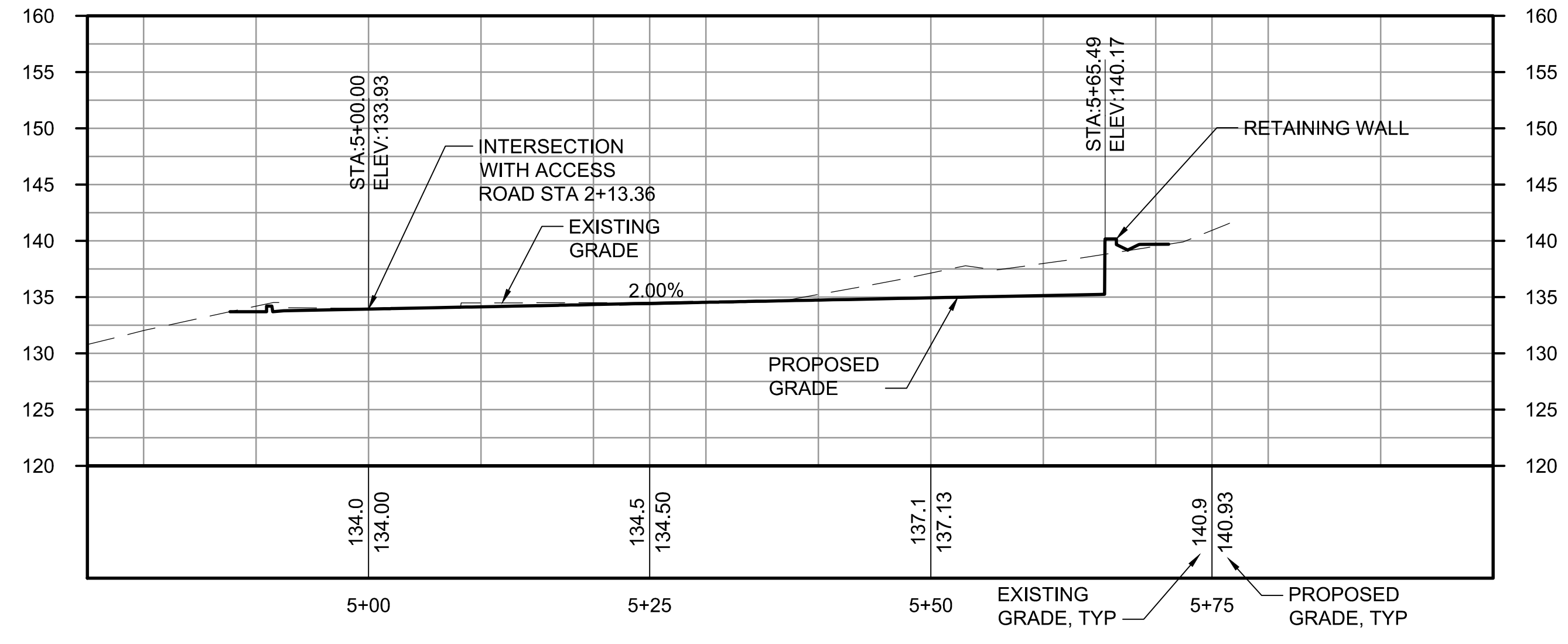
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**ACCESS ROAD CONTROL**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C131</b>
SHT NO / TOTAL	REV NO:

**NOTES:**  
 1. ELEVATIONS SHOWN ARE TOP OF PROPOSED GRADE.



**ACCESS ROAD**  
**PROFILE A**  
 SCALE: HORZ - 1" = 10'  
 VERT - 1" = 10'



**HAMMERHEAD**  
**PROFILE B**  
 SCALE: HORZ - 1" = 10'  
 VERT - 1" = 10'

**ABBREVIATIONS:**  
 LVC - LENGTH OF VERTICAL CURVE  
 PVI - POINT OF VERTICAL INTERSECTION  
 BVCS - BEGIN VERTICAL CURVE STATIONING  
 BVCE - BEGIN VERTICAL CURVE ELEVATION  
 EVCS - END VERTICAL CURVE STATIONING  
 EVCE - END VERTICAL CURVE ELEVATION

**FOR REFERENCE ONLY**

BORDER FILE EDITION: K:\MWD-2012-Dstz-TB-Border  
 FILE LOCATION: P:\3167200\7000ADD\02CIVIL\Landuse Permit Drawings\Station\E00306E13--NMP5-C132.dwg  
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 PLOTTED BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
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**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1" = 10'  
 REFERENCE  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20



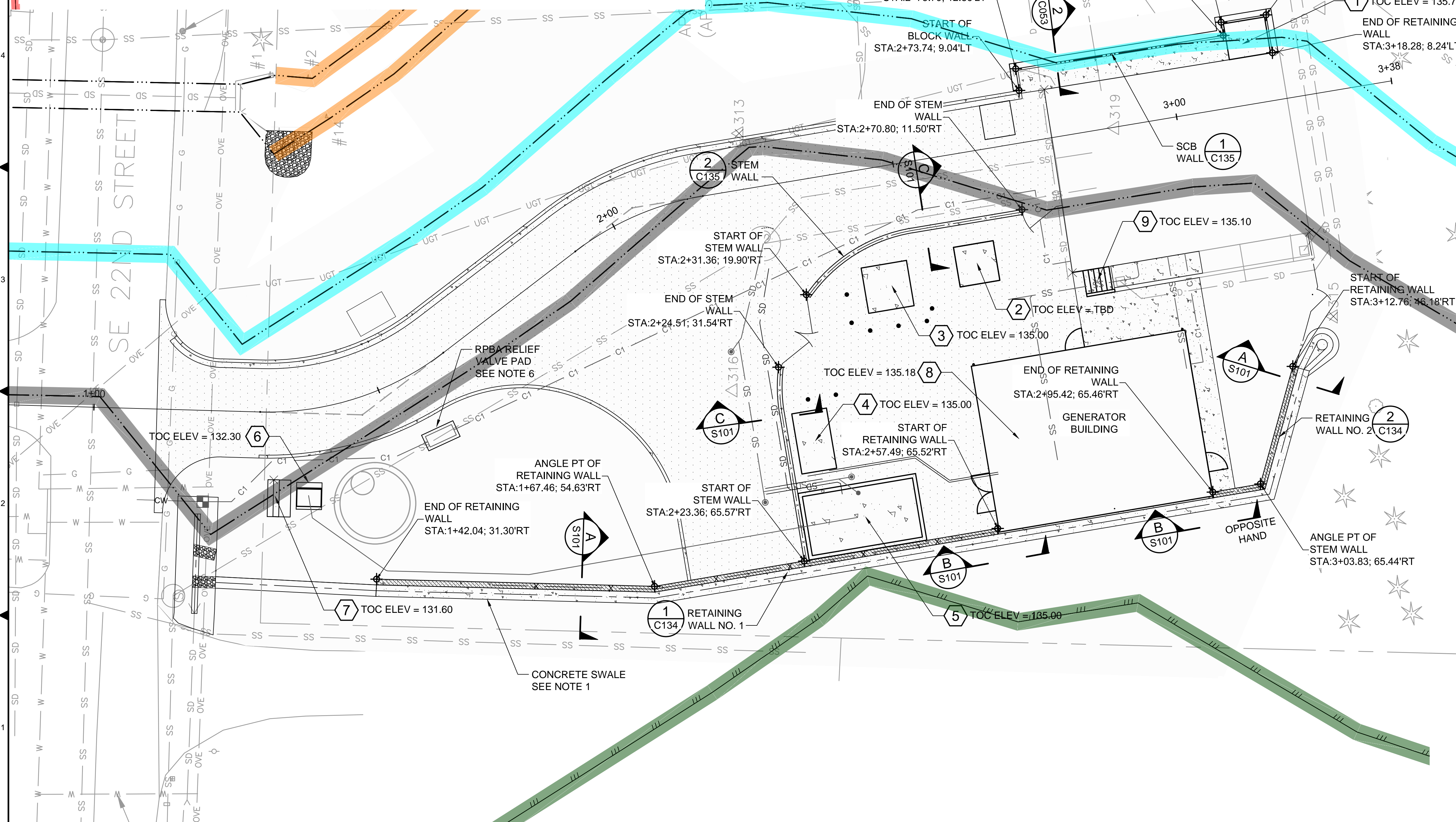
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**ACCESS ROAD PROFILES**

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: <b>C132</b>
SHT NO / TOTAL REV NO:

CONCRETE SLAB TABLE 1			CONCRETE SLAB TABLE 2			CONCRETE SLAB TABLE 3			CONCRETE SLAB TABLE 4			CONCRETE SLAB TABLE 5			CONCRETE SLAB TABLE 6		
LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET
1-NW	3+10.70	-8.29 LT	2-NW	2+57.97	23.01 RT	3-NW	2+43.04	24.90 RT	4-NW	2+25.46	50.57 RT	5-NW	2+24.23	65.53 RT	6-NW	1+53.61	12.75 RT
1-NE	3+10.70	-13.39 LT	2-NE	2+57.96	16.01 RT	3-NE	2+43.03	16.90 RT	4-NE	2+25.44	39.94 RT	5-NE	2+24.21	53.78 RT	6-NE	1+53.66	10.76 RT
1-SE	3+15.93	-13.40 LT	2-SE	2+64.96	16.00 RT	3-SE	2+49.53	16.89 RT	4-SE	2+31.56	39.93 RT	5-SE	2+44.96	53.75 RT	6-SE	1+57.76	11.12 RT
1-SW	3+15.93	-8.28 LT	2-SW	2+64.97	23.00 RT	3-SW	2+49.54	24.89 RT	4-SW	2+31.75	50.56 RT	5-SW	2+44.98	65.50 RT	6-SW	1+57.57	13.11 RT

CONCRETE SLAB TABLE 7			CONCRETE SLAB TABLE 8			CONCRETE SLAB TABLE 9		
LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET
7-NW	1+30.20	18.19 RT	8-NW	2+57.66	66.18 RT	9-NW	2+79.47	27.82 RT
7-NE	1+30.29	11.77 RT	8-NE	2+57.61	36.91 RT	9-NE	2+79.49	23.74 RT
7-SE	1+33.52	11.98 RT	8-SE	2+95.31	36.85 RT	9-SE	2+84.07	23.76 RT
7-SW	1+33.13	18.37 RT	8-SW	2+95.36	66.12 RT	9-SW	2+84.05	27.80 RT

- # KEY NOTES:**
- CONDENSER UNIT PAD (7'-3"x6'-4"), SEE DRAWING S003.
  - CARBON VESSEL FOUNDATION, SEE DRAWING S401. SEE DRAWING S402 FOR PLATFORM BASE FOOTING INFORMATION AND LOCATIONS.
  - PADMOUNT TRANSFORMER VAULT (8'X8'), SEE DRAWING S003.
  - DIESEL TANK PAD.
  - BIOXIDE CONTAINMENT BASIN, SEE DRAWING S501.
  - BIOXIDE FILING CABINET PAD, SEE S003.
  - FACILITY SIGN, SEE DRAWING A314.
  - GENERATOR BUILDING SLAB AND GENERATOR PAD, SEE DRAWING S301.
  - CONCRETE STAIRS, SEE DRAWING A314.
- NOTES:**
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION. SEE DRAWING C141 FOR CONCRETE SWALE INFORMATION.
  - SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
  - SEE DRAWING C141 FOR SIDEWALK, EQUIPMENT PAD, CONCRETE SWALE, AND STEM WALL CURB RETURN INFORMATION.
  - RETAINING WALL TO BE CONSTRUCTED IN TWO PHASES, SEE DRAWING T-C101.
  - SEE DRAWING C126 FOR HOTBOX PAD LOCATION.



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
 FILE LOCATION: P:\3167200\7000ADD\02CIVIL\Landuse Permit Drawings\Station\00306E13-NMPS-C133.dwg  
 PLOT DATE: 9/26/2019 8:25 PM  
 PLOTTED BY: D.Auriga, lisdgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



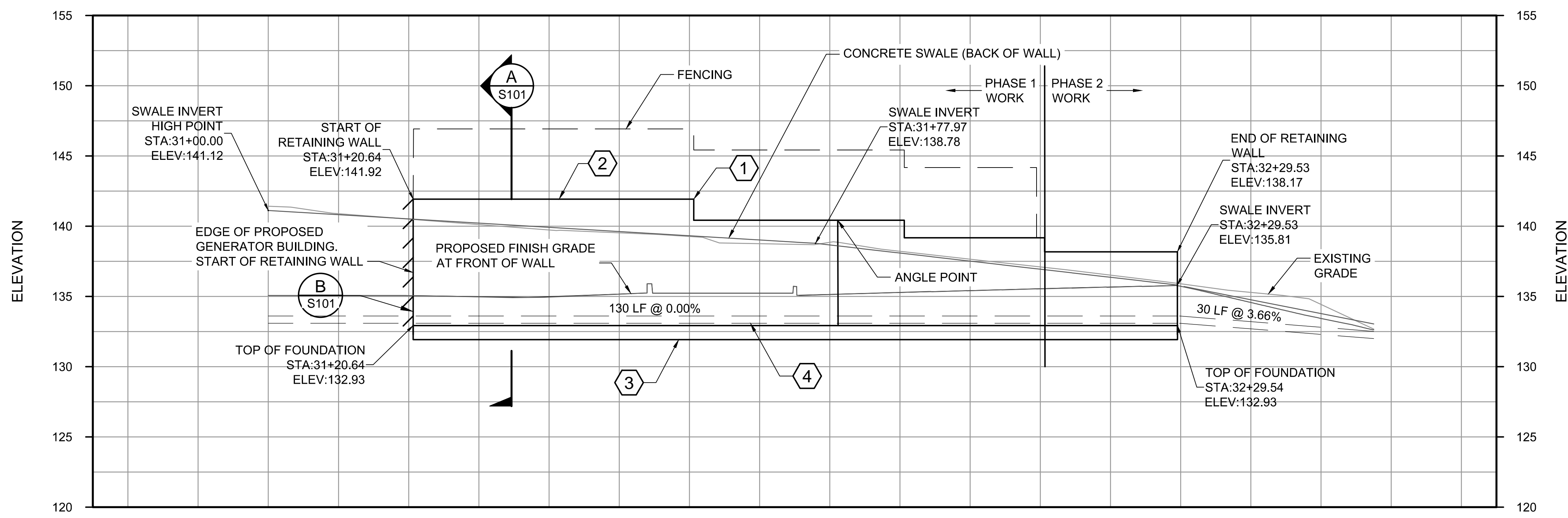
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
**R. LUDWIG**  
 PROJECT ENGINEER:  
**J. CHAE**  
 DESIGN APPROVAL:  
**R. BROWNE**  
 PROJECT ACCEPTANCE:  
**S. YILDIZ**

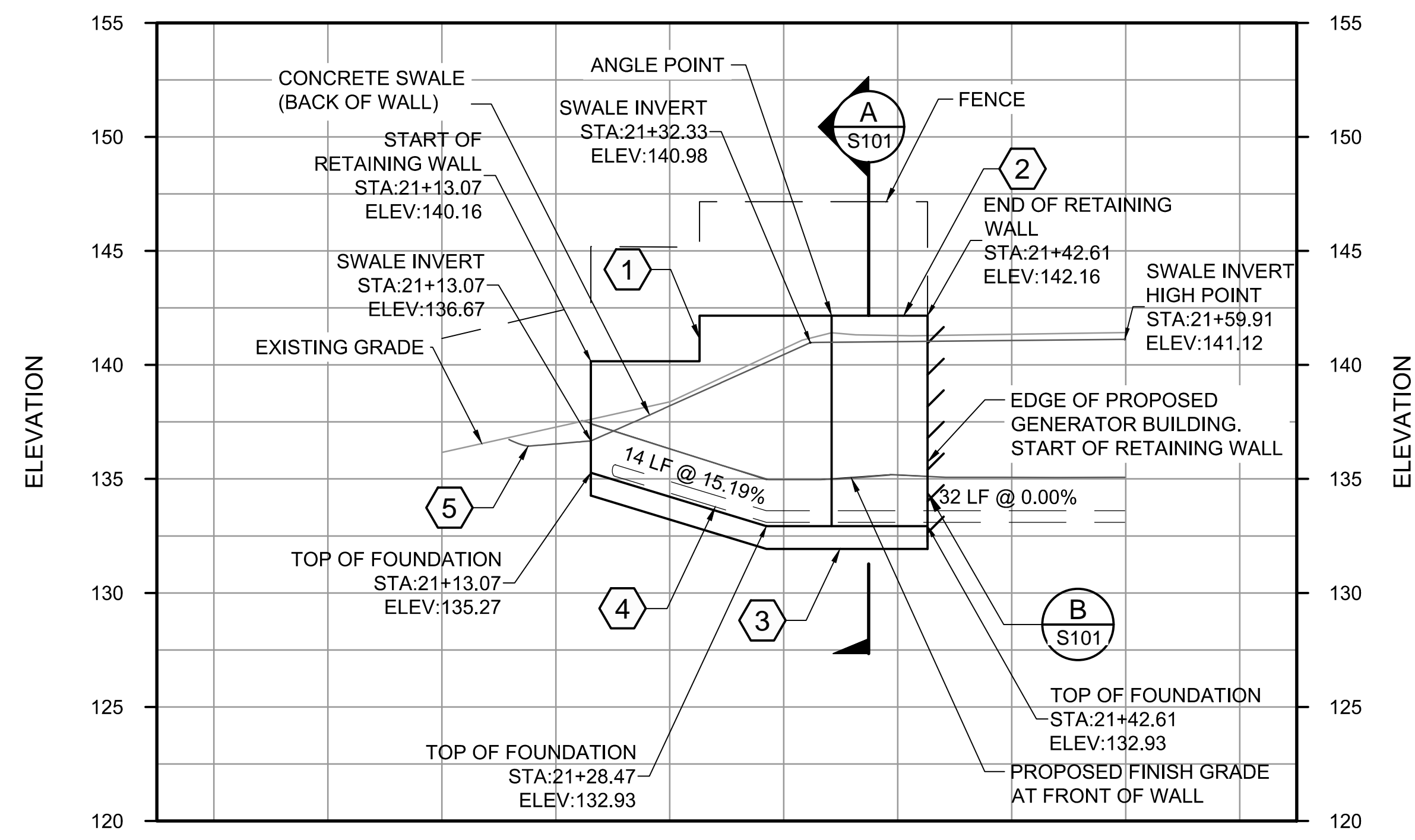
SCALE:  
**1" = 10'**  
 REFERENCE  
 FACILITY NUMBER:  
**333**  
 CONTRACT NO.:  
**C01339C20**

DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**WALL PADS AND FOOTINGS PLAN**

DCN:	DATE:	05/02/2019
PROJECT FILE NO.:	DRAWING NO.:	<b>C133</b>
SHT NO / TOTAL	REV NO.	/



- # KEY NOTES:**
- ELEVATION DROP LOCATIONS AND DISTANCE OF DROP AS REQUIRED FOR FENCING.
  - 6" MIN WALL HEIGHT REQUIRED ABOVE RETAINING WALL SWALE, SEE DETAIL 3/C051.
  - APPROXIMATE LOCATION OF BOTTOM OF FOOTING.
  - FOOTING WALL DRAIN, SEE DETAIL 3/C036.
  - YARD DRAIN, SEE DETAIL 1/C034.
- NOTES:**
- SEE C133 FOR WALL ALIGNMENT INFORMATION.
  - UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
  - UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
  - REFER TO C141 FOR ADDITIONAL STEM WALL LOCATION INFORMATION.
  - RETAINING WALL TO BE CONSTRUCTED IN TWO PHASES, SEE TC101.
  - SEE DRAWING A306 FOR FENCE INFORMATION.



**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Header  
 FILE LOCATION: \\s3\67200\700CADD\02\CIVIL\Landuse Permit Drawings\Station\E00306E13--NMPS-C134.dwg  
 PLOT DATE: 6/28/2019 11:29 AM  
 PLOTTED BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
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**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
R. LUDWIG  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 10'  
 REFERENCE  
 FACILITY NUMBER:  
333  
 CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**RETAINING WALL  
 PROFILE**

DCN:	DATE:	05/02/2019
PROJECT FILE NO.:	DRAWING NO.:	<b>C134</b>
SHT NO / TOTAL	REV NO.:	/

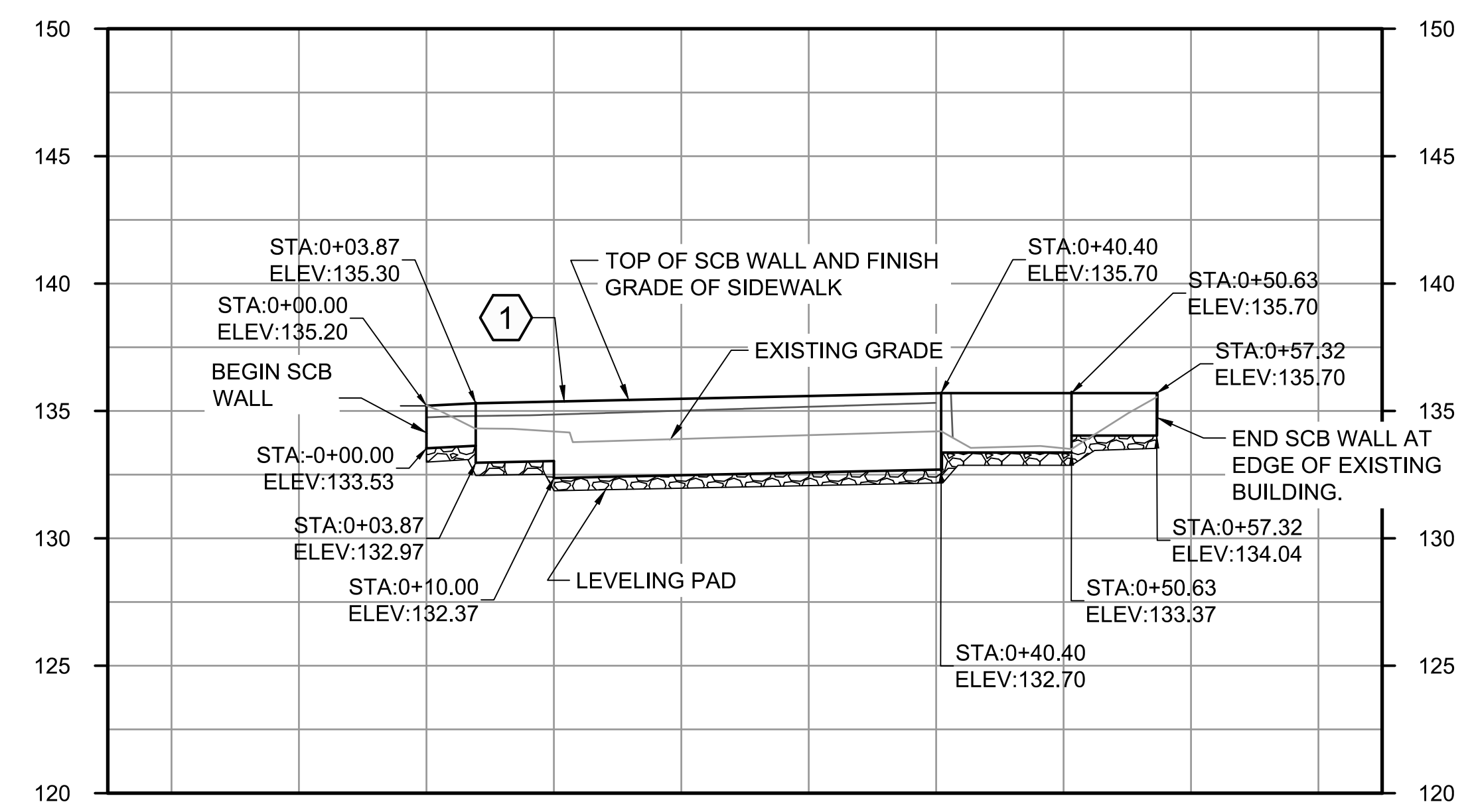


# KEY NOTES:

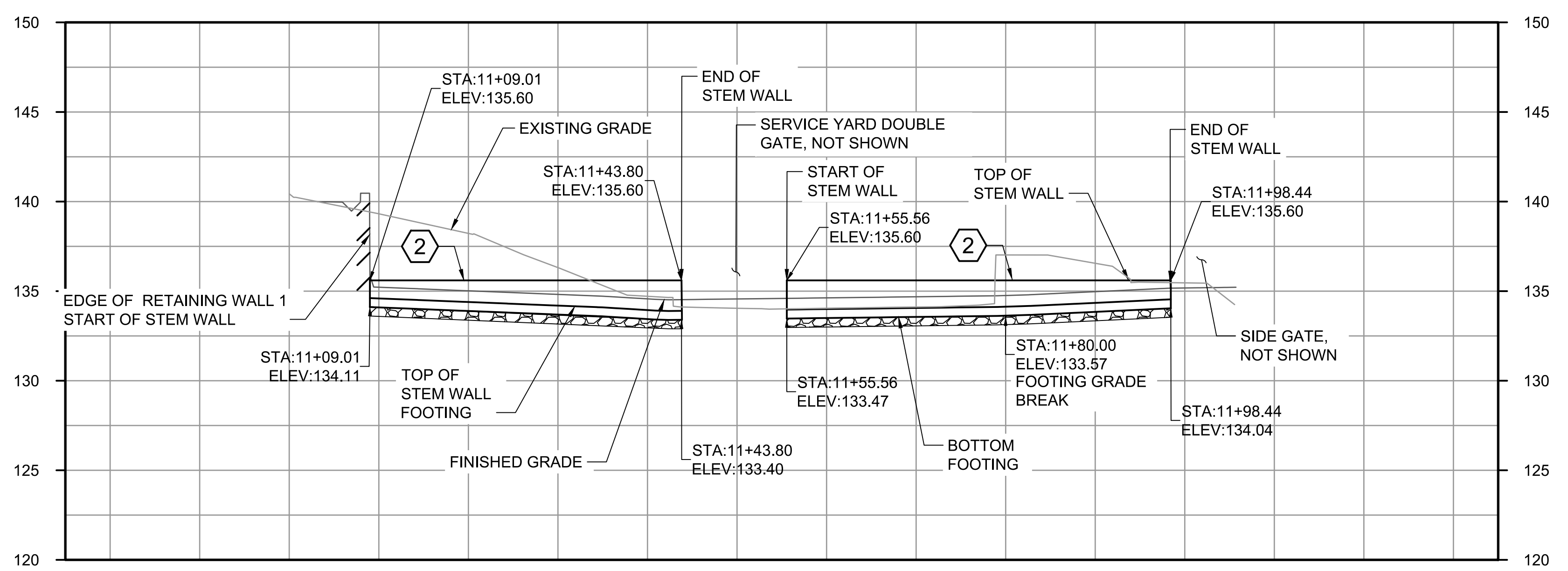
1. SEGMENTAL CONCRETE BLOCK (SCB) WALL, SEE DETAIL 2/C053.
2. SERVICE YARD STEM WALL, SEE SECTION C/S101.

NOTES:

1. SEE C131 FOR ALIGNMENT INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
4. ELEVATIONS ON PROFILE REPRESENT THE TOP OF WALL AND TOP OF FOOTING FOR THE SCB WALL AND TOP OF WALL AND BOTTOM OF FOOTING FOR STEM WALL.
5. SEE DRAWING A306 FOR FENCE INFORMATION.



**SCB WALL PROFILE 1**  
SCALE: H - 1" = 10'  
V - 1" = 5'



**STEM WALL PROFILE 2**  
SCALE: H - 1" = 10'  
V - 1" = 5'

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCVTD-2012-Dstz=TB-Border  
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PLOT DATE: 7/29/2019 3:11 PM  
PLOT BY: Eubank, John

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN:  
R. LUDWIG  
PROJECT ENGINEER:  
J. CHAE  
DESIGN APPROVAL:  
R. BROWNE  
PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 10'  
0 REFERENCE 1"  
FACILITY NUMBER:  
333  
CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**SCB AND STEM  
WALL PROFILES**

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	<b>C135</b>
SHT NO / TOTAL	126 / 393
REV NO:	

**CURB RETURN FLOW LINE TABLE ①**

LOCATION	STA	OFFSET	ELEV
BHC	1+57.45	7.51' RT	133.00
¼ Δ	1+69.27	11.84' RT	133.47
½ Δ	1+78.25	21.91' RT	133.99
¾ Δ	1+81.47	35.01' RT	134.51
EHC	1+78.20	48.10' RT	135.02

Δ = 111° 32' 57" R = 28.00' L = 54.51'

**CURB RETURN FLOW LINE TABLE ②**

LOCATION	STA	OFFSET	ELEV
BHC	2+23.31	39.50' RT	134.72
¼ Δ	2+23.43	37.48' RT	134.66
½ Δ	2+23.65	35.48' RT	134.60
¾ Δ	2+24.01	33.49' RT	134.54
EHC	2+24.51	31.54' RT	134.52

Δ = 16° 30' 48" R = 28.00' L = 8.07'

**CURB RETURN FLOW LINE TABLE ③**

LOCATION	STA	OFFSET	ELEV
BHC	2+31.36	19.90' RT	134.61
¼ Δ	2+35.61	16.31' RT	134.64
½ Δ	2+40.51	13.69' RT	134.68
¾ Δ	2+45.83	12.05' RT	134.71
EHC	2+51.36	11.50' RT	134.74

Δ = 45° 34' 37" R = 28.00' L = 22.27'

**CURB RETURN FLOW LINE TABLE ④**

LOCATION	STA	OFFSET	ELEV
BHC	2+24.19	39.50' RT	134.72
¼ Δ	2+24.26	37.54' RT	134.66
½ Δ	2+24.47	35.60' RT	134.60
¾ Δ	2+24.82	33.67' RT	134.54
EHC	2+25.31	31.78' RT	134.52

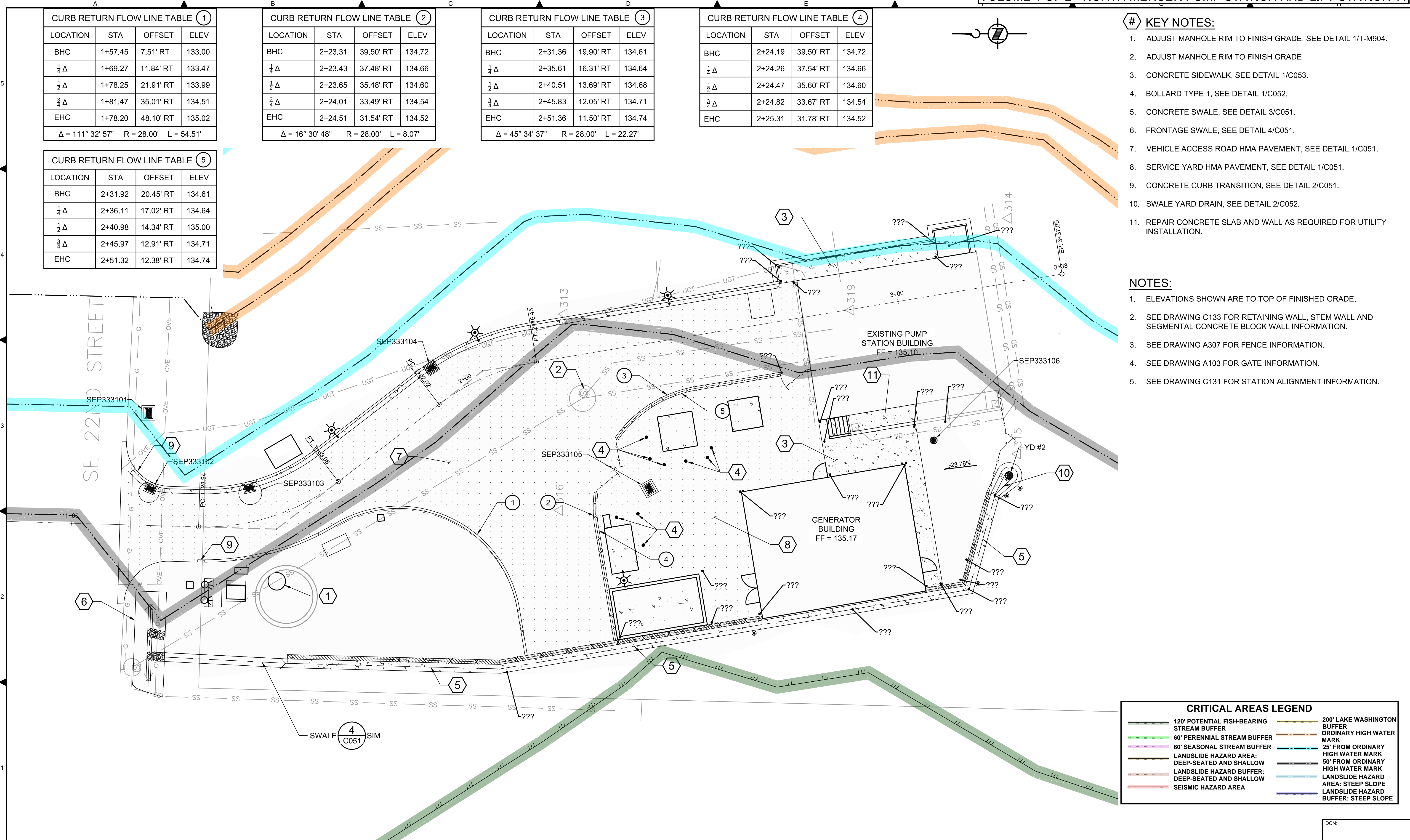
**CURB RETURN FLOW LINE TABLE ⑤**

LOCATION	STA	OFFSET	ELEV
BHC	2+31.92	20.45' RT	134.61
¼ Δ	2+36.11	17.02' RT	134.64
½ Δ	2+40.98	14.34' RT	135.00
¾ Δ	2+45.97	12.91' RT	134.71
EHC	2+51.32	12.38' RT	134.74

- # KEY NOTES:**
- ADJUST MANHOLE RIM TO FINISH GRADE, SEE DETAIL 1/T-M904.
  - ADJUST MANHOLE RIM TO FINISH GRADE
  - CONCRETE SIDEWALK, SEE DETAIL 1/C053.
  - BOLLARD TYPE 1, SEE DETAIL 1/C052.
  - CONCRETE SWALE, SEE DETAIL 3/C051.
  - FRONTAGE SWALE, SEE DETAIL 4/C051.
  - VEHICLE ACCESS ROAD HMA PAVEMENT, SEE DETAIL 1/C051.
  - SERVICE YARD HMA PAVEMENT, SEE DETAIL 1/C051.
  - CONCRETE CURB TRANSITION, SEE DETAIL 2/C051.
  - SWALE YARD DRAIN, SEE DETAIL 2/C052.
  - REPAIR CONCRETE SLAB AND WALL AS REQUIRED FOR UTILITY INSTALLATION.

- NOTES:**
- ELEVATIONS SHOWN ARE TO TOP OF FINISHED GRADE.
  - SEE DRAWING C133 FOR RETAINING WALL, STEM WALL AND SEGMENTAL CONCRETE BLOCK WALL INFORMATION.
  - SEE DRAWING A307 FOR FENCE INFORMATION.
  - SEE DRAWING A103 FOR GATE INFORMATION.
  - SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.

BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
 FILE LOCATION: P:\3167200\700CADD\02CIVIL\Landuse Permitt Drawings\Station\E00306E13-NMPS-C141.dwg  
 PLOT DATE: 9/26/2019 8:55 PM  
 PLOTTED BY: D.Aurig, lscgc



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL HAZARD AREA	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE



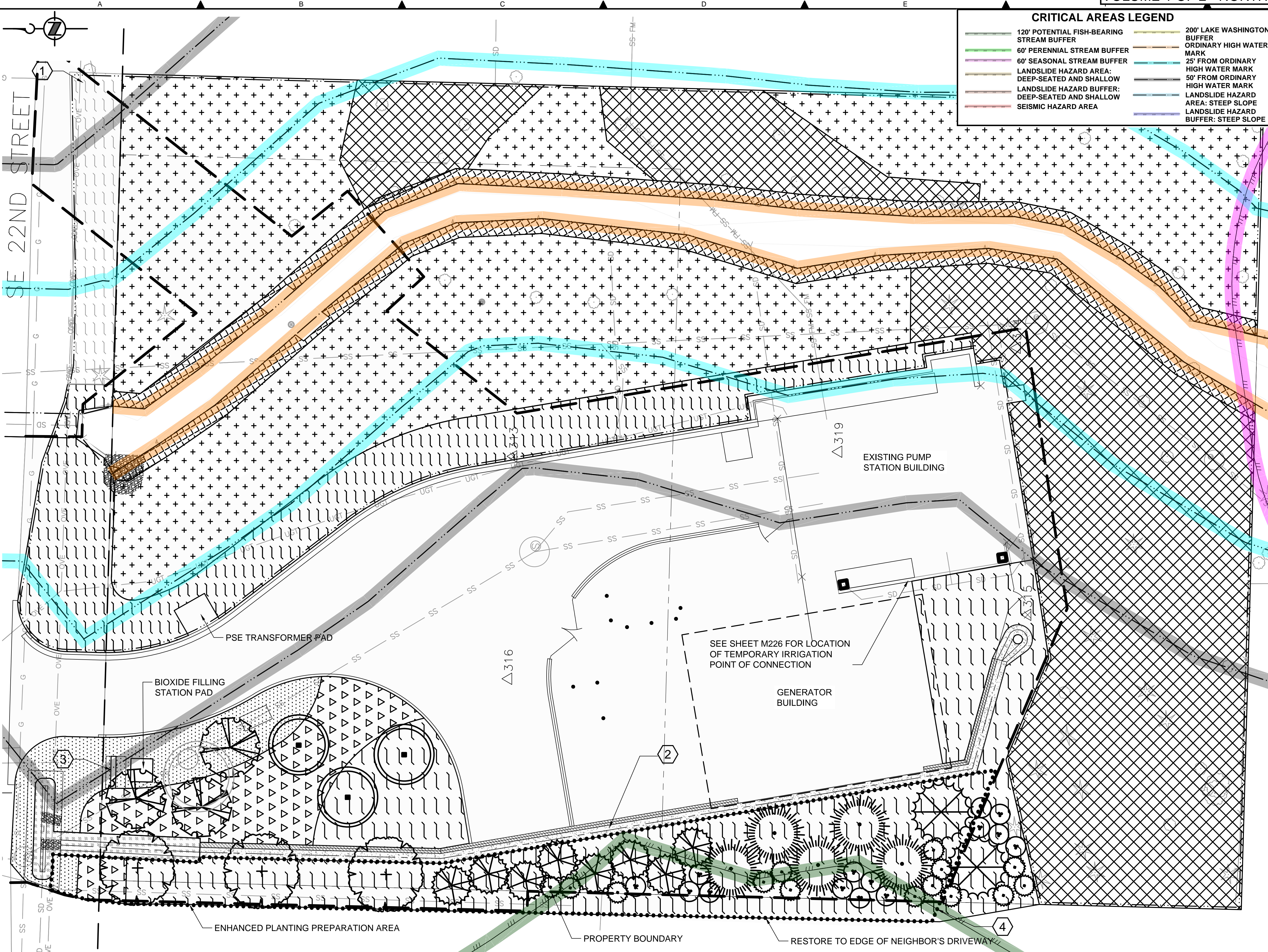
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1" = 10'  
 REFERENCE: 1"  
 FACILITY NUMBER: 333  
 CONTRACT NO: C01339C20

DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**GRADING & PAVING PLAN**

DCN:  
 DATE: 05/02/2019  
 PROJECT FILE NO:  
 DRAWING NO: **C141**  
 SHT NO / TOTAL: XXX /  
 REV NO:



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

- NOTES:**
- SEE DWG L102 FOR PLANTING NOTES, SCHEDULE AND SETBACKS.
  - SEE DWG L103 FOR PLANTING DETAILS.
  - SEE DWG L104 FOR PLANT MIX LAYOUT AND DESCRIPTIONS.
  - AREAS INSIDE OF THE STREAM BUFFER ARE DEFINED AS BUFFER ENHANCEMENT AREAS. WORK SHALL BE PERFORMED AS STATED IN SPECIFICATION SECTION 32 76 00.

- KEY NOTES:**
- PLANTING BY OTHERS.
  - CONCRETE-LINED DITCH, SEE CIVIL DRAWINGS.
  - ENTRANCE SIGN WALL, SEE DETAIL ON SHEET A314.
  - ENHANCED PLANTING PREPARATION AREA SHALL RECEIVE A 3 FT DEPTH OF PLANTING SOIL MIX. SEE SHEET C141 FOR FINAL GRADES.

**LEGEND:**

MIX A	MIX F
MIX B	MIX G
MIX C	SELECTIVE CLEARING
MIX D	ENHANCED PLANTING PREPARATION AREA
MIX E	STREAM BUFFER

- PLANTING LEGEND:**
- LEGACY SUGAR MAPLE
  - CHINESE FRINGE TREE
  - VANESSA PERSIAN IRONWOOD
  - WESTERN REDCEDAR
  - INCENSE CEDAR
  - EXCELSA WESTERN REDCEDAR
  - EVERGREEN HUCKLEBERRY
  - ARTHUR MENZIES HYBRID MAHONIA

BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
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 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
L. FRENCH  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
1" = 10'  
 REFERENCE 1"  
 FACILITY NUMBER:  
333  
 CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**LANDSCAPE PLAN**

DCN:	DATE:	05/02/2019
PROJECT FILE NO:	DRAWING NO:	<b>L101</b>
SHT NO / TOTAL	TOTAL	REV NO.
122 / 347		

**PLANT SCHEDULE**

TYPE	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT CONDITION	SIZE	REMARKS
TREE	3	ACER SACCHARUM 'LEGACY'	LEGACY MAPLE	B&B	2 INCH CAL.	STREET TREE GRADE
TREE	5	CALOCEDRUS DECURRENS	INCENSE CEDAR	#25 CONT.	6 FT.	NATURAL FORM; SINGLE LEADER
TREE	3	CHIONANTHUS RETUSUS	CHINESE FRINGE TREE	2 INCH CAL.	2 INCH CAL.	STREET TREE GRADE
TREE	3	PARROTIA PERSICA 'VANESSA'	PERSIAN IRONWOOD	2 INCH CAL.	2 INCH CAL.	STREET TREE GRADE
TREE	35	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	21	RHAMNUS PURSHIANA	CASCARA	#1 CONT.	18 INCH	MIN. 5 BRANCHES
TREE	2	THUJA PLICATA	WESTERN REDCEDAR	#25 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	56	THUJA PLICATA	WESTERN REDCEDAR	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	8	THUJA PLICATA 'EXCELSA'	EXCELSA WESTERN REDCEDAR	#25 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	37	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
LARGE SHRUB	172	ACER CIRCINATUM	VINE MAPLE	#1 CONT.	12 INCH	MIN. 3 BRANCHES
LARGE SHRUB	68	SALIX SCOULERIANA	SCOULER'S WILLOW	LIVE STAKE	24 INCH	SEE DETAIL L103
LARGE SHRUB	68	CORNUS SERICEA	RED TWIG DOGWOOD	LIVE STAKE	24 INCH	SEE DETAIL L103
LARGE SHRUB	34	MAHONIA AQUIFOLIUM	TALL OREGON-GRAPE	#1 CONT.	12 INCH	MIN. 3 CANES
LARGE SHRUB	245	MYRICA CALIFORNICA	PACIFIC WAX MYRTLE	#1 CONT.	12 INCH	MIN. 3 CANES
LARGE SHRUB	120	OEMLERIA CERASIFORMIS	INDIAN PLUM	#1 CONT.	12 INCH	MIN. 3 BRANCHES
LARGE SHRUB	204	SALIX SITCHENSIS	SITKA WILLOW	LIVE STAKE	24 INCH	SEE DETAIL L103
LARGE SHRUB	14	MAHONIA X. MEDIA 'ARTHUR MENZIES'	ARTHUR MENZIES HYBRID MAHONIA	#5 CONT.	30 INCH	MIN. 5 BRANCHES
SHRUB	230	ROSA GYMNOCARPA	BALDHIP ROSE	#1 CONT.	12 INCH	MIN. 3 CANES
SHRUB	14	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#5 CONT.	24 INCH	MIN. 5 BRANCHES
GROUNDCOVER	400	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	#1 CONT.		
GROUNDCOVER	631	CAREX OBNUPTA	SLOUGH SEDGE	PLUGS	20 CU. IN.	
GROUNDCOVER	532	EPIMEDIUM X PERRALCHICHUM 'FROHNLEITEN'	BARRENWORT 'FROHNLEITEN'	#1 CONT.	9 INCH	
GROUNDCOVER	930	GAULTHERIA SHALLON	SALAL	#1 CONT.	6 INCH	
GROUNDCOVER	159	JUNCUS EFFUSUS	COMMON RUSH	PLUGS	20 CU. IN.	
GROUNDCOVER	392	MAHONIA NERVOSA	LOW OREGON GRAPE	#1 CONT.	6 INCH	
GROUNDCOVER	1419	MAHONIA REPENS	CREEPING MAHONIA	#1 CONT.	6 INCH	
FERN	1195	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 CONT.	-	MIN. 3 FRONDS

**PLANT SCHEDULE NOTES:**

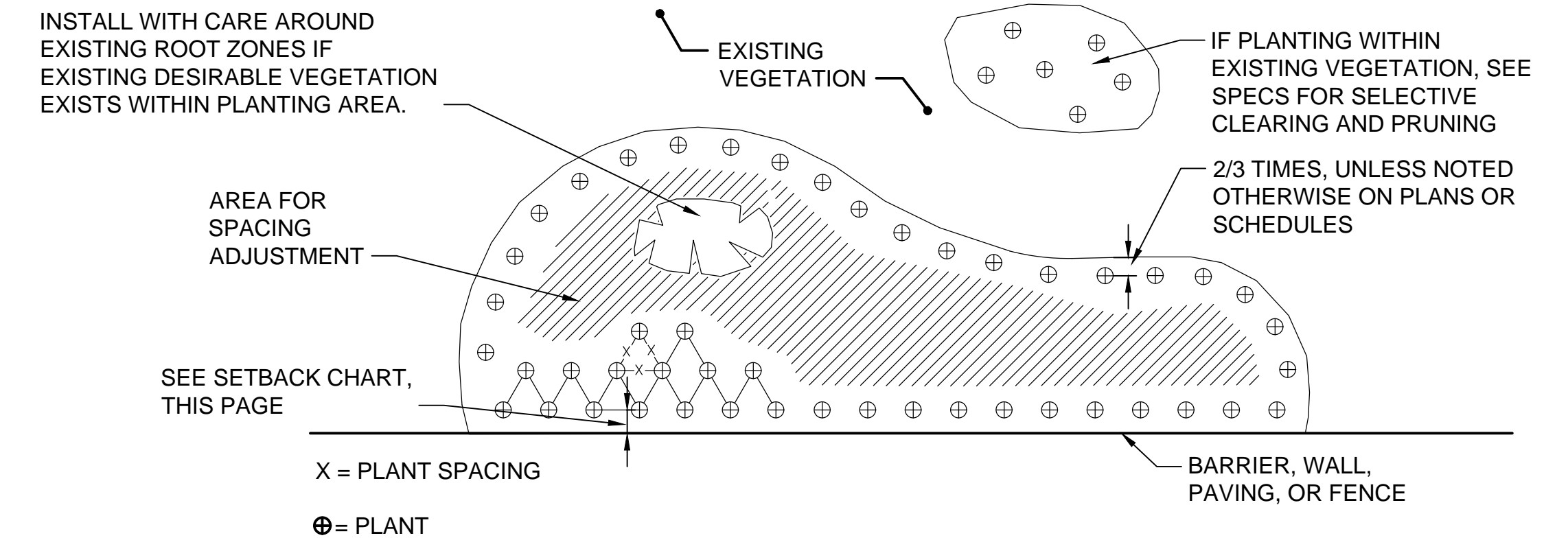
- ALL PLANT MATERIAL SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM REQUIREMENTS, AND ARE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". IF A CONFLICT OCCURS BETWEEN THESE SPECIFICATIONS AND THE "A.S.N.S.", THESE SPECIFICATIONS SHALL APPLY.
- ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH FULLY FILL THE CONTAINER WITHOUT HAVING ROOTS THAT CIRCLE THE POT.
- ALL B&B AND CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH HAVE BEEN INOCULATED WITH THE APPROPRIATE MYCORRHIZAE.
- IMMEDIATELY BEFORE INSTALLATION, PLANT'S ROOTS THAT ARE BROKEN, DAMAGED, OR TWISTED SHALL BE PRUNED. MATTED OR CIRCLING ROOTS OF CONTAINERIZED PLANTS MUST BE PRUNED OR STRAIGHTENED AND THE SIDES OF THE ROOTBALL SHALL BE ROUGHENED FROM TOP TO BOTTOM TO A DEPTH OF APPROXIMATELY ONE HALF INCH IN TWO TO FOUR PLACES.
- USE CARE TO PROTECT ROOTS OF EXISTING TREES.
- STREET TREE GRADE- TRUNK FREE OF BRANCHES TO 5-7 FOOT HEIGHT, STREET TREES SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.
- CONIFERS SHALL HAVE A NATURAL FORM (NO SHEARING) AND A SINGLE LEADER.
- TYPICAL SETBACKS FOR PLANT MATERIAL UNLESS OTHERWISE ADJUSTED BY THE RESIDENT ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS.

**PLANT MATERIAL SETBACK CHART**

	BACK OF CURB	EDGE OF PAVEMENT	WALL	FENCE	LIGHT POLE	OVERHEAD POWER CENTERLINE	DRAINAGE STRUCTURE	UNDERGROUND SEWER/WATER LINE
GROUNDCOVER	1'	2'	0.5'	0.5'	0.5'	-	-	-
SMALL SHRUB/FERN (< 3 FT TALL)	1.3'	3.7'	3'	3'	3'	-	2.5'	2.5'
MEDIUM SHRUB (4-8 FT TALL)	2.8'	5'	5'	3'	5'	-	2.5'	2.5'
TALL SHRUB (9-15 FT TALL)	5'	5'	5'	5'	12'	-	5'	5'
TREE	per plan	per plan	per plan	per plan	15'	20'	5'	5'

**SETBACK NOTES:**

- THE SETBACKS ABOVE ARE MINIMUM SETBACKS FROM CENTER OF PLANT MATERIAL (TRUNK OR STEM) TO FEATURE LISTED IN EACH COLUMN.
  - IN AREAS WHERE SMALL SHRUBS AND GROUNDCOVERS ARE SHOWN ON PLANTING PLAN, BUT THEY CANNOT BE PLANTED WITH REQUIRED SETBACKS, A MIN. OF ONE ROW OF PLANTS SHALL BE PLANTED AT THE SPECIFIED SPACING CENTERED IN THE MIDDLE OF PLANTING AREA.
- TREE LOCATIONS SHOWN ON PLANTING PLANS ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY, THE SETBACKS ABOVE SHALL APPLY. PROJECT REPRESENTATIVE WILL APPROVE FINAL LOCATION.



PLANTING AREA LAYOUT 1 VAR  
SCALE: NTS

**FOR REFERENCE ONLY**

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FILE LOCATION: P:\3167200\700CADD\02CIVIL\Landuse Permit Drawings\Station\00306E13-NMPS-L102.dwg  
PLOT DATE: 6/7/2019 3:54 PM  
PLOTTER: D Aurig, lscg

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SEPTEMBER 2019

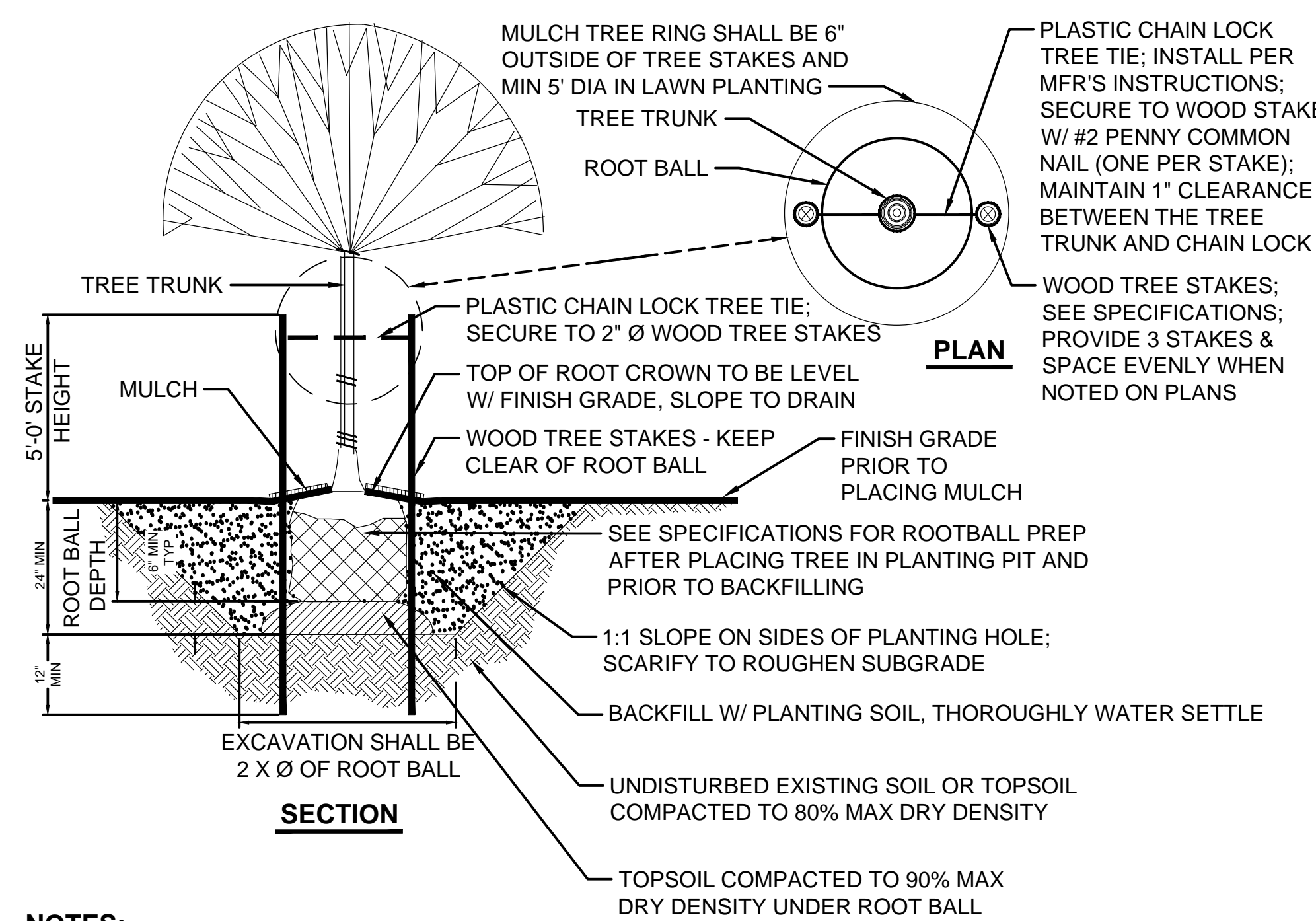
DESIGNED/DRAWN:  
L. FRENCH  
PROJECT ENGINEER:  
J. CHAE  
DESIGN APPROVAL:  
R. BROWNE  
PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
NTS  
REFERENCE  
1" = 0'  
FACILITY NUMBER:  
333  
CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**LANDSCAPE DETAILS**

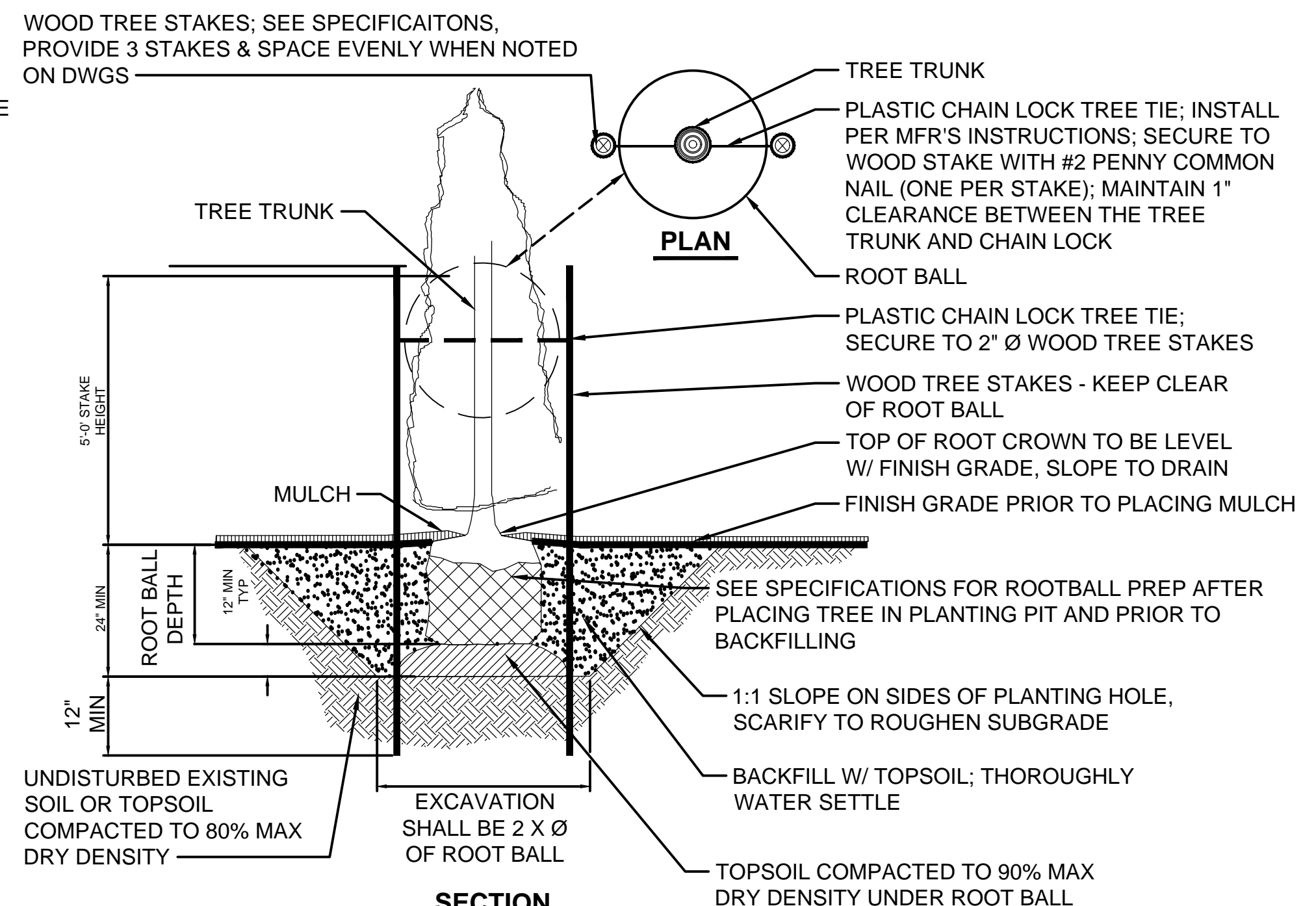
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PROJECT FILE NO.:	DRAWING NO.:	<b>L102</b>
SHT NO / TOTAL	TOTAL	REV NO.
123 / 347		



- NOTES:**
- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
  - PROVIDE 24" MIN DEPTH OF TOPSOIL AT DECIDUOUS TREE EXCAVATION.
  - ROTATE TREES IN PLANTING AREAS ADJACENT TO VEHICULAR ZONES SO THAT THE DOMINANT BRANCHES ALIGN PARALLEL TO THE VEHICULAR ZONES.

**DECIDUOUS TREE PLANTING**  
SCALE: NTS

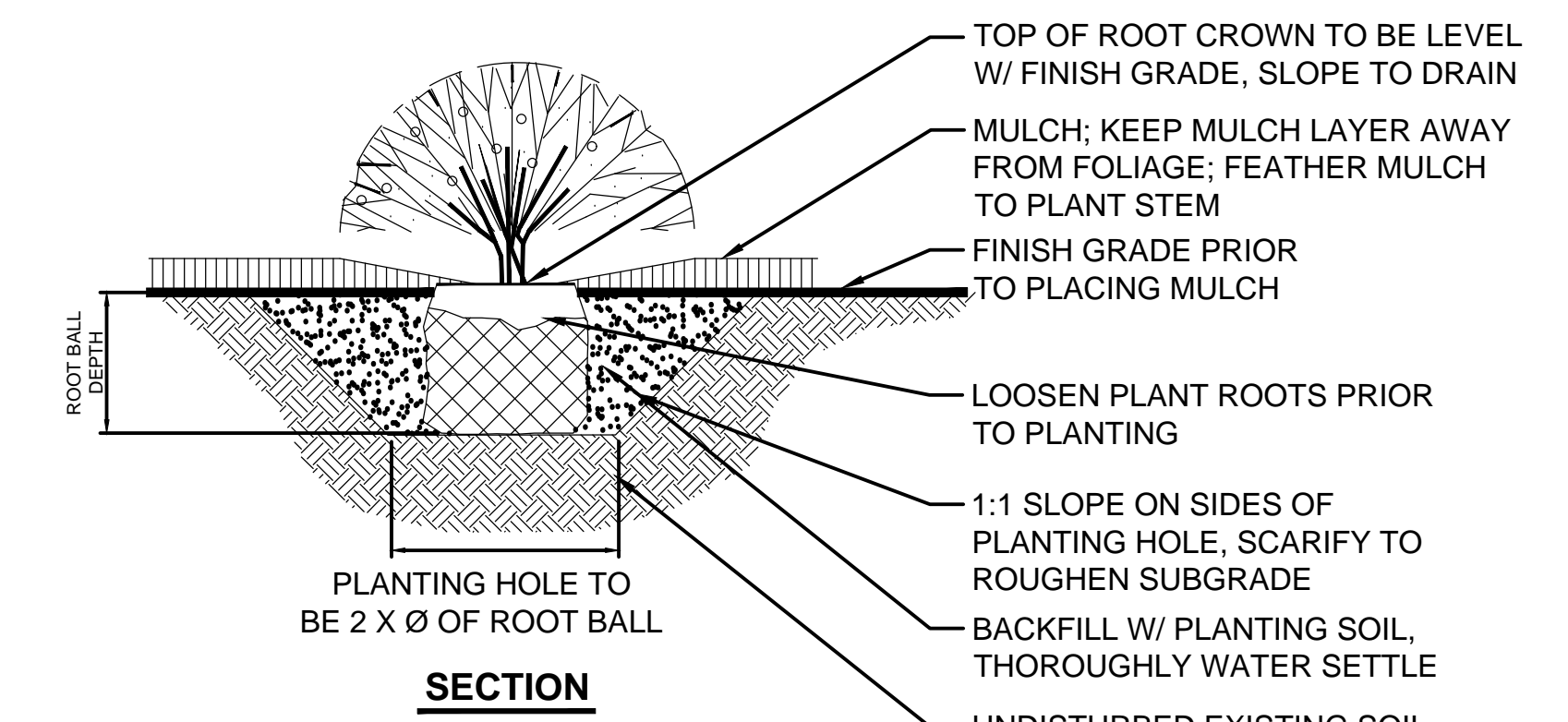
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- NOTES:**
- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
  - PROVIDE 24" MIN DEPTH OF TOPSOIL AT CONIFER TREE EXCAVATION.
  - FOR CONIFER TREES LESS THAN 6' IN HEIGHT, ONE TREE STAKE AT AN ANGLE IS ACCEPTABLE.

**CONIFER TREE PLANTING**  
SCALE: NTS

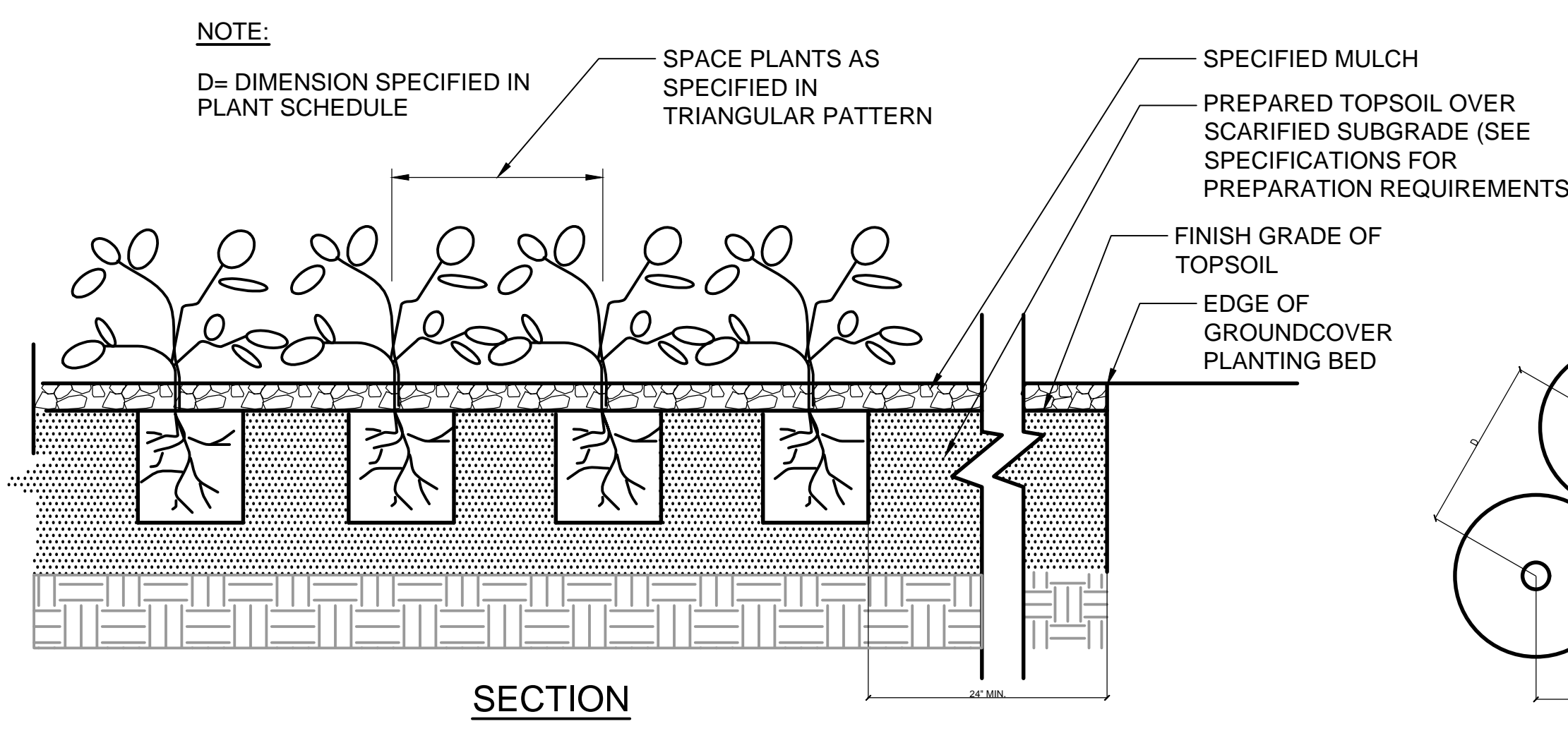
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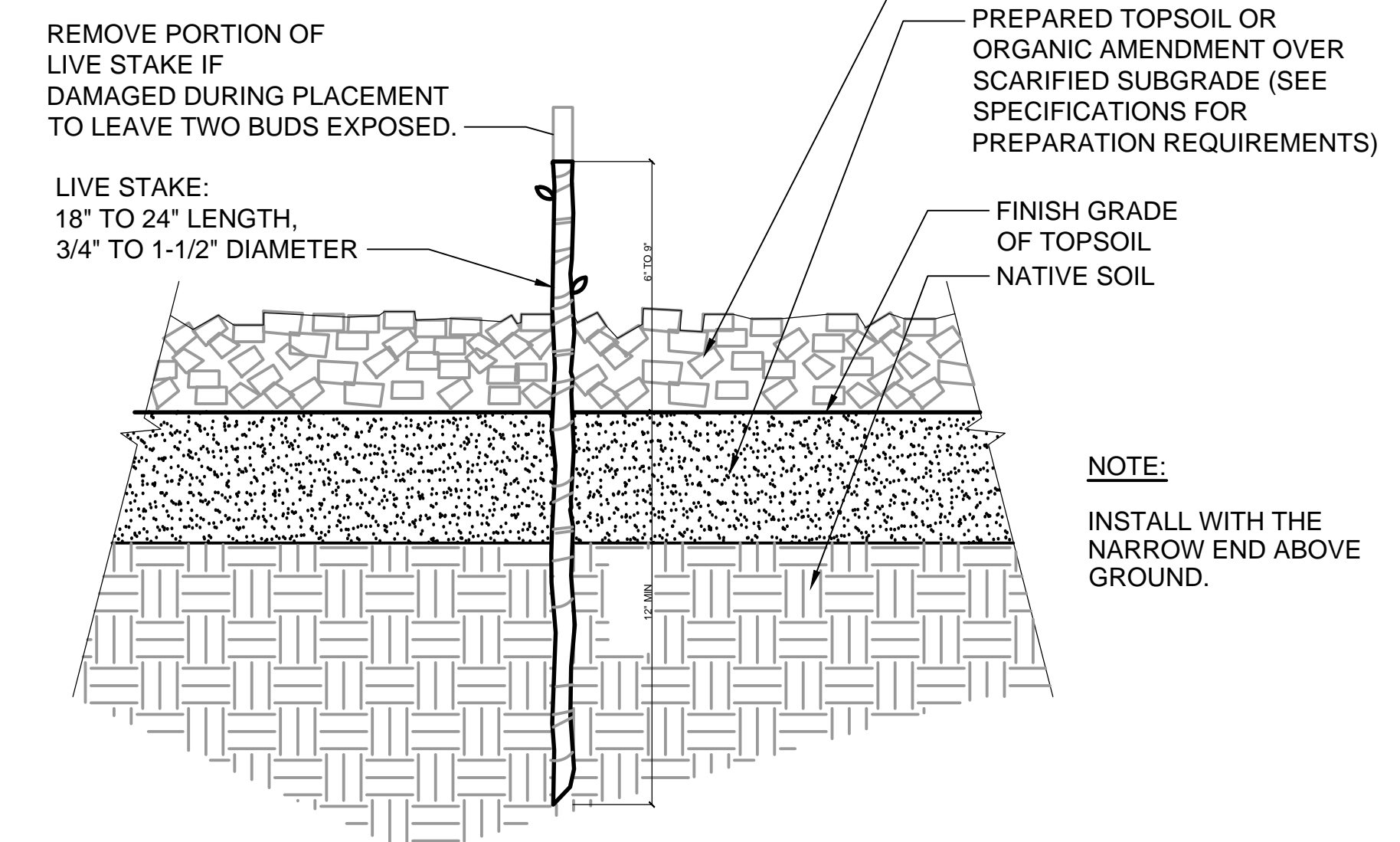
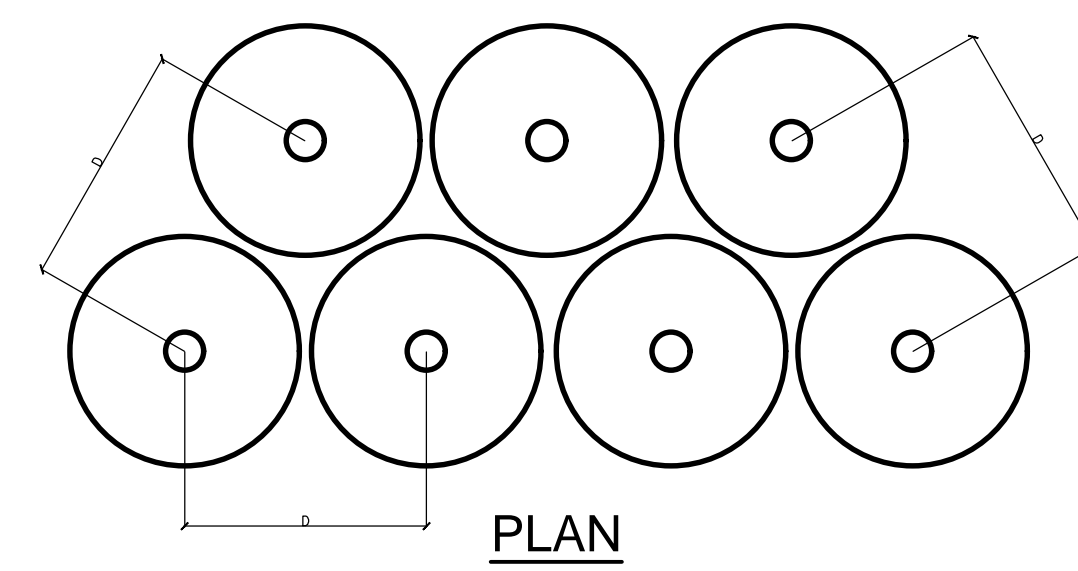
- NOTES:**
- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.

**SHRUB PLANTING**  
SCALE: NTS

3  
VAR



**GROUNDCOVER PLANTING**  
SCALE: NTS



**LIVE STAKE INSTALLATION**  
SCALE: NTS

4  
VAR

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Dstze-TB-Border  
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PLOT BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



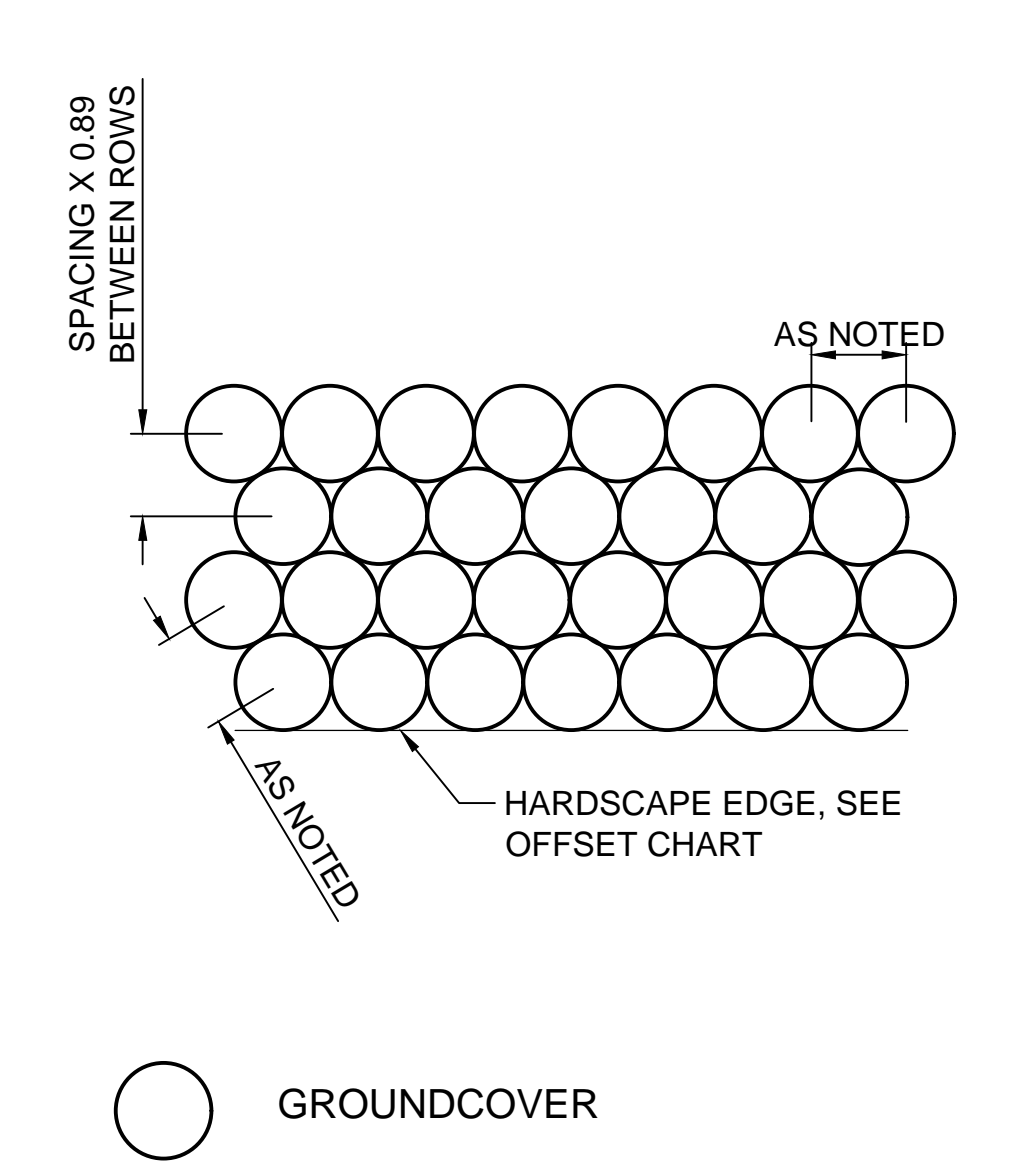
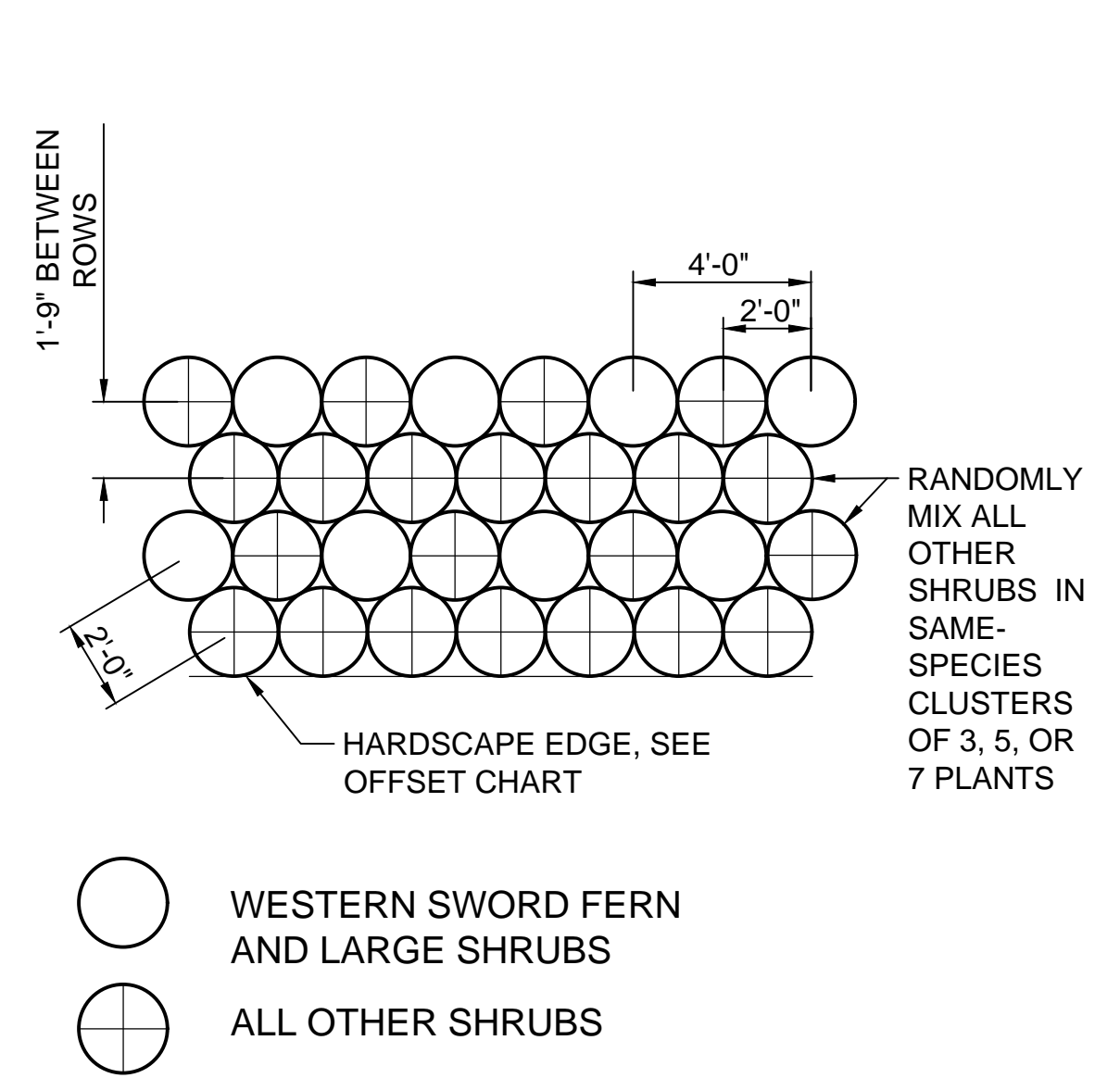
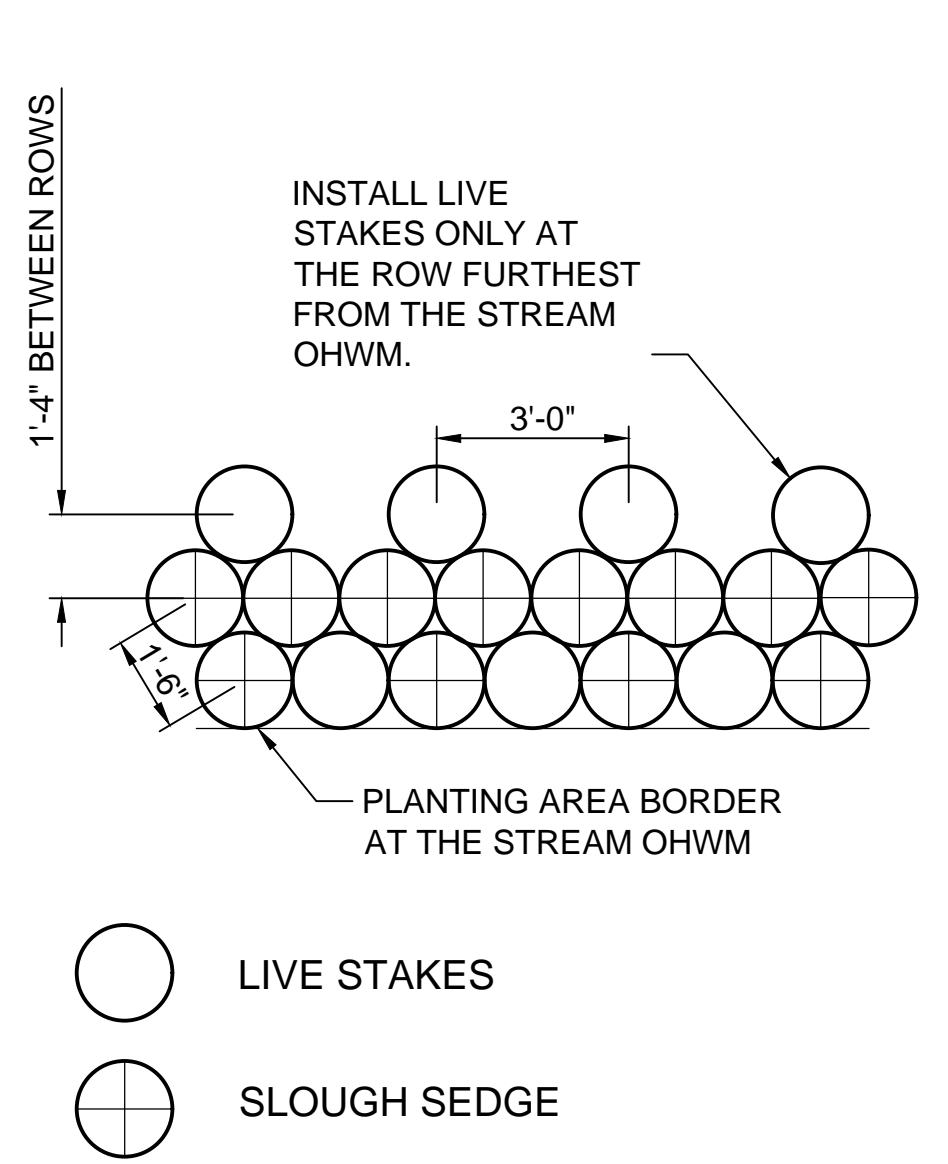
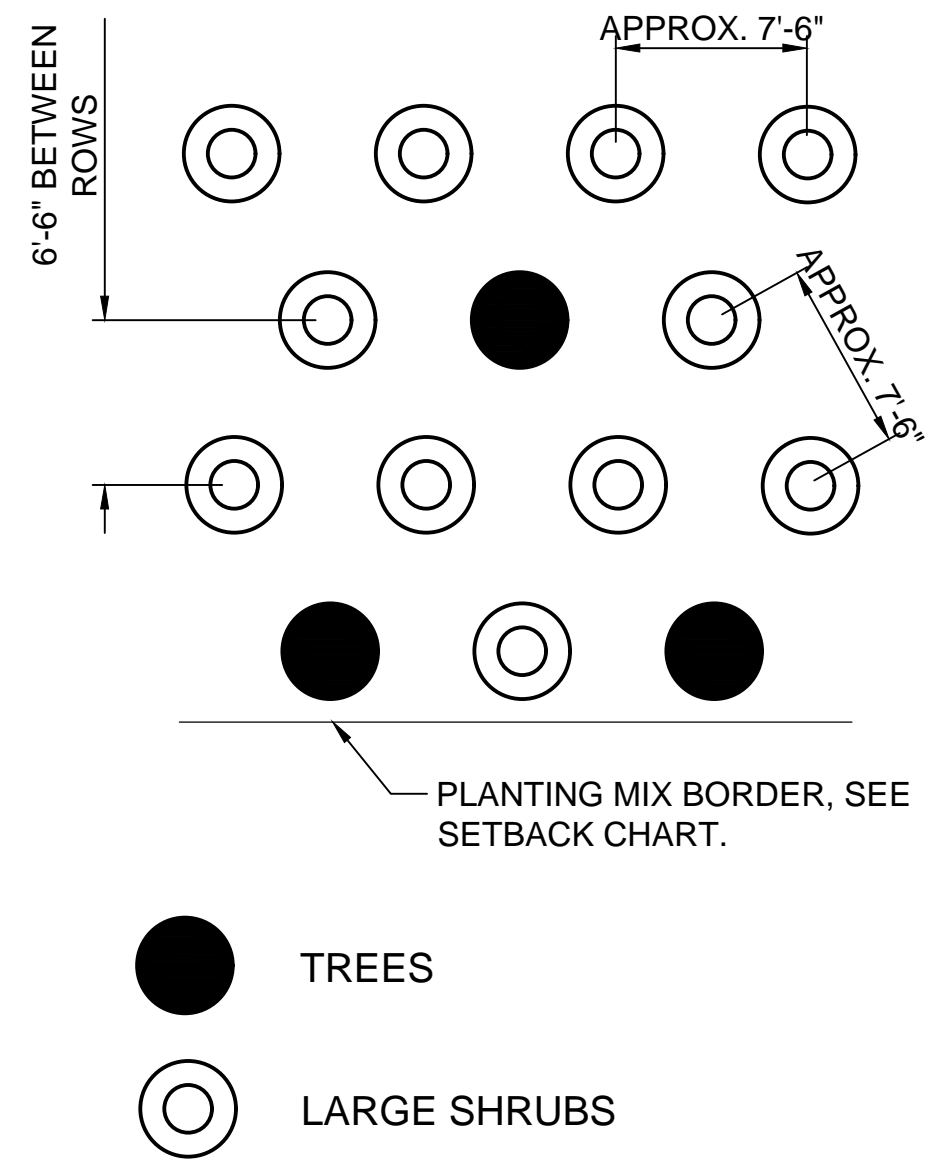
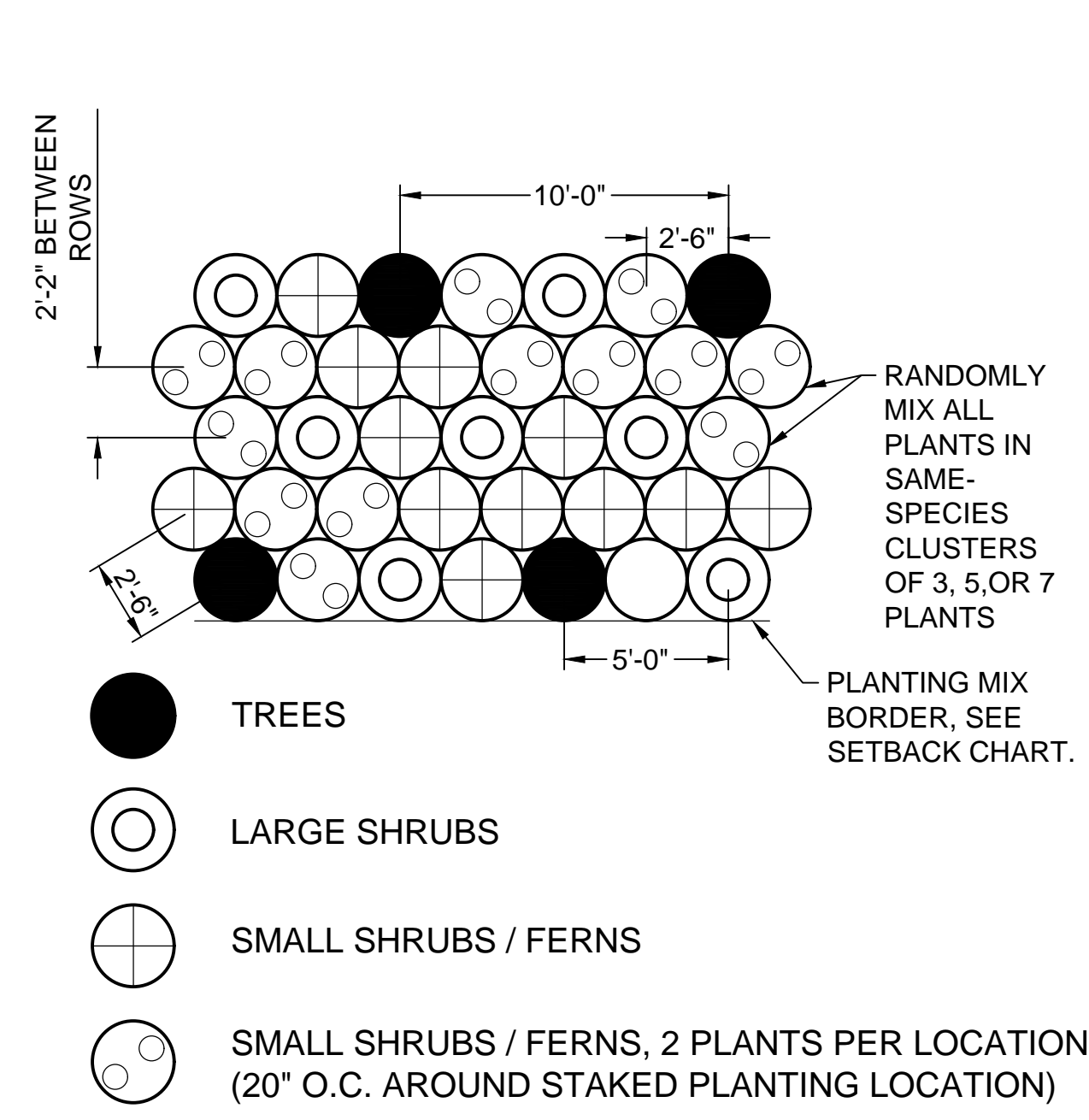
**PRELIMINARY ISSUE DRAWING**  
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**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: L. FRENCH  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ  
SCALE: NTS  
REFERENCE: 1"  
FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**LANDSCAPE DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>L103</b>
SHT NO / TOTAL: 124 / 347	REV NO:



**NOTES:**

- SEE SETBACK CHART ON L102 FOR MINIMUM SETBACK DISTANCE FROM EXISTING DESIRABLE VEGETATION.

PLANTING MIX A		
COMMON NAME	SPACING	QTY.
TREES		
CASCARA	10 FT. O.C.	18
DOUGLAS-FIR	10 FT. O.C.	35
WESTERN HEMLOCK	10 FT. O.C.	18
WESTERN REDCEDAR	10 FT. O.C.	35
LARGE SHRUBS		
INDIAN PLUM	5 FT. O.C.	89
PACIFIC WAX MYRTLE	5 FT. O.C.	212
VINE MAPLE	5 FT. O.C.	141
SMALL SHRUBS / FERNS- 2.5 FT. O.C.		
BALDHIP ROSE	2.5 FT. O.C.	230
CREEPING MAHONIA	2 PER SPOT	636
WESTERN SWORDFERN	2 PER SPOT	706
SALAL	2 PER SPOT	636

**NOTES:**

- SEE SETBACK CHART ON L102 FOR MINIMUM SETBACK DISTANCE FROM EXISTING DESIRABLE VEGETATION.
- BREAK FROM GRID WHEN NECESSARY TO ACCOMMODATE QUANTITIES INDICATED IN THE PLANS.

PLANTING MIX B		
COMMON NAME	SPACING*	QTY.
TREES		
CASCARA	14 FT. O.C.	3
WESTERN HEMLOCK	14 FT. O.C.	19
WESTERN REDCEDAR	14 FT. O.C.	21
LARGE SHRUBS		
INDIAN PLUM	7 FT. O.C.	31
PACIFIC WAX MYRTLE	7 FT. O.C.	33
TALL OREGON-GRAPE	7 FT. O.C.	34
VINE MAPLE	7 FT. O.C.	31

\* SPACING IS APPROXIMATE. ACTUAL SPACING WILL DEPEND ON THE DENSITY OF EXISTING VEGETATION WITHIN THE INFILL PLANTING AREA.

PLANTING MIX C		
COMMON NAME	SPACING	QTY.
SHRUBS (LIVE STAKES)		
RED-TWIG DOGWOOD	3 FT. O.C.	68
SCOULER'S WILLOW	3 FT. O.C.	68
SITKA WILLOW	3 FT. O.C.	204
GROUNDCOVERS		
SLOUGH SEDGE	1.5 FT. O.C.	525

PLANTING MIX D		
COMMON NAME	SPACING	QTY.
LARGE SHRUBS		
EVERGREEN HUCKLEBERRY	PER PLAN	14
TALL OREGON-GRAPE	PER PLAN	14
SHRUBS / FERNS		
CREEPING MAHONIA	2 FT. O.C.	783
LOW OREGON-GRAPE	2 FT. O.C.	392
SALAL	2 FT. O.C.	294
WESTERN SWORDFERN	4 FT. O.C.	489

PLANTING MIX E		
COMMON NAME	SPACING	QTY.
GROUNDCOVER		
BARRENWORT 'FROHNLEITEN'	1.5 FT. O.C.	532

PLANTING MIX F		
COMMON NAME	SPACING	QTY.
GROUNDCOVER		
BIG BLUE LILYTURF	1.5 FT. O.C.	400

PLANTING MIX G		
COMMON NAME	SPACING	QTY.
GROUNDCOVER		
COMMON RUSH	1 FT. O.C.	159
SLOUGH SEDGE	1 FT. O.C.	106

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCVTD-2012-Dsize-TB-Border  
 FILE LOCATION: \\SEAFILE01\Proj\W3X67200\700CADD\715LAND\00306E13-NMPS-L104.dwg  
 PLOT DATE: 4/23/2019 4:31 PM  
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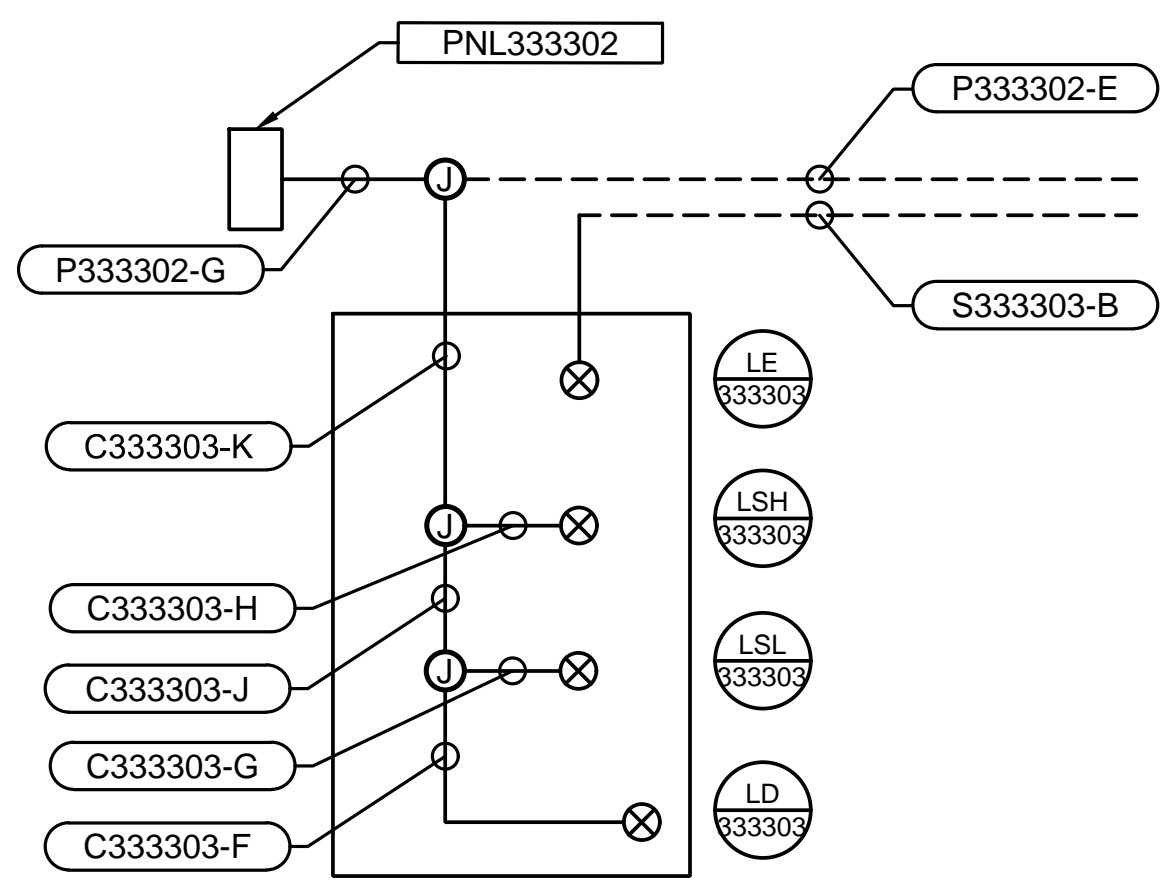
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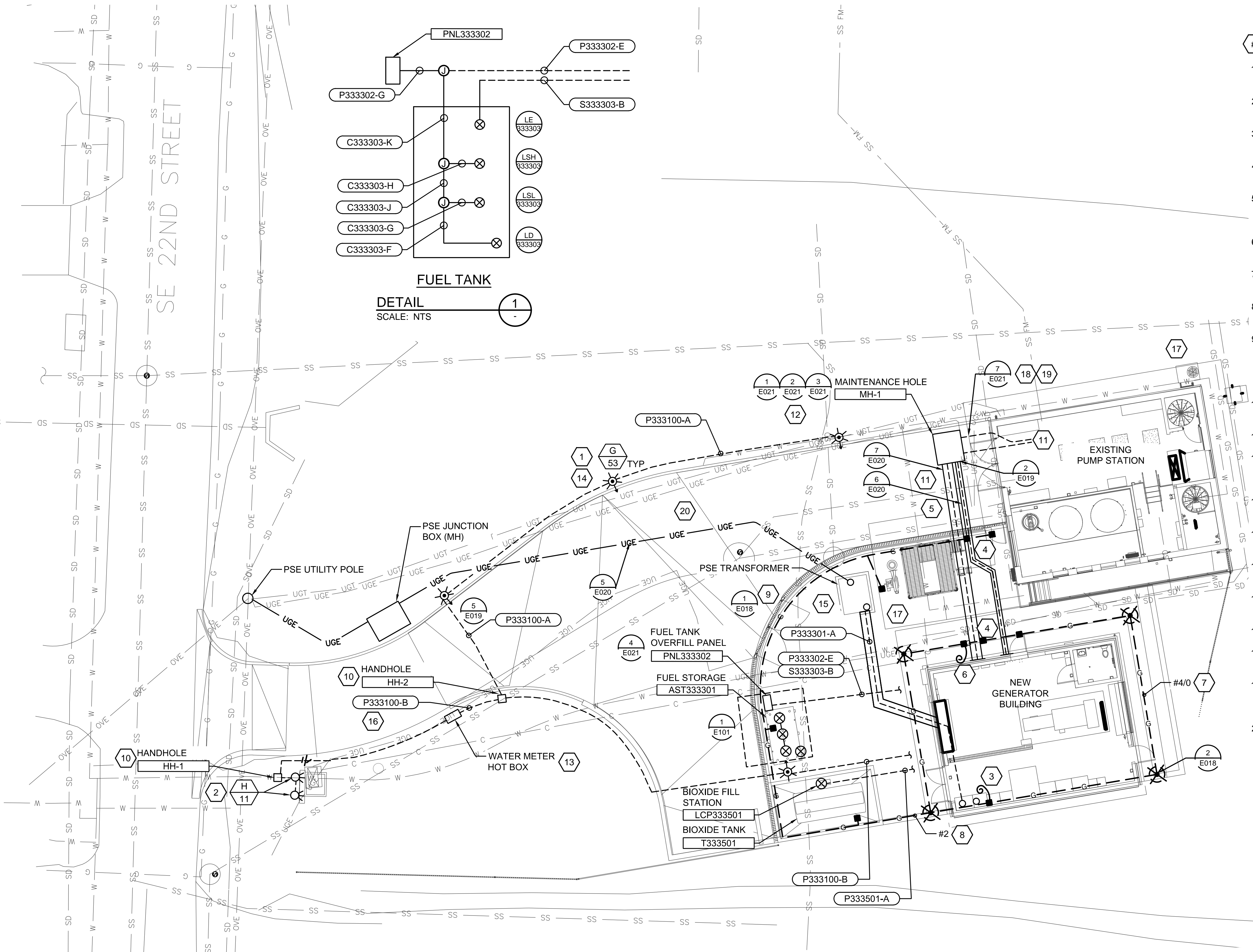
DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**LANDSCAPE DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>L104</b>
SHT NO / TOTAL: 131 / 393	REV NO:

- # KEY NOTES:**
- MAXIMUM OVERALL HEIGHT OF POLE BASE, POLE, AND LUMINARIE SHALL NOT EXCEED 16 FEET AFG.
  - COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS FOR SIGN LIGHTING.
  - PROVIDE GROUNDING ELECTRODE CONDUCTOR TO TIE INTO NEUTRAL BUS AT [SWBD333301]
  - BOND GROUNDING LOOP CONDUCTOR TO BOTH ENCASED DUCTBANK GROUND CONDUCTORS.
  - LOCATE EXISTING BUILDING GROUNDING ELECTRODE SYSTEM AND BOND TO BOTH DUCTBANK GROUND CONDUCTORS.
  - PROVIDE CONNECTION TO GROUND FOR SEPARATELY DERIVED SOURCE TFR333301.
  - PROVIDE #4/0 AWG GROUND LOOP BETWEEN GROUND RODS.
  - PROVIDE #2 AWG BONDING CONDUCTOR BETWEEN GROUND LOOP AND ALL YARD EQUIPMENT AND FENCE.
  - PROVIDE MECHANICAL /BOLTED BONDING CONNECTIONS TO THE FENCE AND GATE SYSTEM. BOND FENCE TO GROUNDING STUD OR ANCHORING BOLTS AT EACH SECTION OF FENCE. AT GATE PROVIDE TINNED COPPER BONDING BRAID RATE 150A FOR EACH GATE SECTION.
  - PROVIDE HANDHOLE WITH NOMINAL DIMENSIONS 25"x16"x12" DEEP, WITH COMPOSITE COVER
  - SLOPE ALL CONDUIT TO MAINTENANCE HOLE TO DRAIN.
  - PROVIDE MAINTENANCE HOLE (MH-1) AS UTILITY VAULT 507-LA, WITH 42" DIAMETER CAST IRON LID, WITH "ELECTRICAL" CAST INTO LID.
  - COORDINATE WITH CIVIL AND MECHANICAL FOR FINAL LOCATION.
  - BOND LIGHT POLE & BASE TO EQUIPMENT GROUNDING CONDUCTOR.
  - COORDINATE WITH CIVIL FOR BOLLARDS AROUND PSE'S TRANSFORMER.
  - THIS ROUTING MUST BE TAKEN FOR PROPER OPERATION GFEP CIRCUIT BREAKER.
  - ADDITIONAL WORK IN THIS AREA. SEE SHEET E-201.
  - PROVIDE PROTECTIVE CONCRETE CAP BETWEEN MH-1 AND THE NORTH WALL OF THE CONTROL ROOM.
  - TRANSITION CONDUITS FROM MH-1 TO NORTH WALL PENETRATION AS NECESSARY TO CONFORM TO DETAIL 5, SHEET E021.
  - COORDINATE WITH CIVIL AND DEMO DRAWINGS FOR NEW AND EXISTING UNDERGROUND UTILITIES.



**FUEL TANK**  
**DETAIL 1**  
 SCALE: NTS



**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Desire-TP-Boarder  
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 PLOTTED BY: Melling, Vickie

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
**R. FRITCH**  
 PROJECT ENGINEER:  
**J. CHAE**  
 DESIGN APPROVAL:  
**R. BROWNE**  
 PROJECT ACCEPTANCE:  
**S. YILDIZ**

SCALE:  
**1"=10'**  
 REFERENCE  
 FACILITY NUMBER:  
**333**  
 CONTRACT NO:  
**C01339C20**



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**ELECTRICAL**  
**SITE PLAN**

DCN:	DATE:	05/02/2019
PROJECT FILE NO:	DRAWING NO:	<b>E101</b>
SHT NO / TOTAL	TOTAL	REV NO:
297 / 393		

**GENERAL NOTES**

1. A COPY OF THESE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE KEPT ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THESE DOCUMENTS SHALL BE KEPT UP TO DATE BY THE CONTRACTOR TO REFLECT THE CURRENT STATUS OF THE PROJECT AND ANY/ALL REVISIONS, DELETIONS, CHANGE ORDERS, ETC.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION AND EROSION CONTROL FACILITIES AND BEST MANAGEMENT PRACTICES (BMP'S), TO ENSURE THAT EROSION OF THE SITE DOES NOT OCCUR AND THAT WATER CONTAINING SEDIMENT DOES NOT LEAVE THE SITE. FACILITIES AND BMP'S SHALL BE ADJUSTED AS SEASONAL CHANGES OCCUR AND AS SITE CONDITIONS CHANGE.
3. THE CONTRACTOR SHALL PROVIDE CONTINUAL MAINTENANCE AND CLEANING OF THE WORK AREAS, THE ROADS AND FACILITIES USED BY THE CONTRACTOR AND SUBCONTRACTORS, AND THOSE PORTIONS OF THE CONTRACTOR'S YARD AND THE LAY-DOWN AREA USED BY THE CONTRACTOR AND SUBCONTRACTORS. STREETS AND RESIDENTIAL DRIVEWAYS SHALL BE KEPT CLEAR AND CLEAN THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL PREVENT CONSTRUCTION DEBRIS OR OTHER OBJECTIONABLE MATERIAL FROM ENTERING NEARBY WATERWAYS AND WETLAND AREAS. CONSTRUCTION EQUIPMENT SHALL NOT ENTER THE WATERS OF STREAMS OR WETLANDS.
5. CONSTRUCTION EQUIPMENT SHALL BE CONTINUOUSLY MAINTAINED IN WORKING ORDER AND FREE FROM LEAKING FLUIDS. EQUIPMENT WHICH, IN THE SOLE OPINION OF THE PROJECT REPRESENTATIVE, IS IN POOR OPERATING CONDITION, SHALL BE REMOVED FROM THE SITE TO THE SATISFACTION OF THE PROJECT REPRESENTATIVE. SPILL CONTAINMENT AND CLEANUP MATERIAL SHALL BE MAINTAINED AT ALL ACTIVE CONSTRUCTION SITES.
6. CONSTRUCTION EQUIPMENT SHALL BE SERVICED AND MAINTAINED ONLY WITHIN AREAS APPROVED FOR THAT PURPOSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARD, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF ITS WORKERS, PUBLIC, AND EVERYONE WITHIN THE PROJECT VICINITY, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
8. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE A TRAFFIC CONTROL PLAN.

**CONSTRUCTION SEQUENCING NOTES**

NOTE: THIS IS A POSSIBLE SEQUENCE. FINAL SEQUENCE SHALL BE DEVELOPED BY CONTRACTOR, AND SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE.

1. ATTEND PRE-CONSTRUCTION MEETING WITH KING COUNTY.
2. OBTAIN PROJECT REPRESENTATIVE APPROVAL AND ALL REQUIRED PERMITS DOCUMENTED IN THE SPECIFICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION BEYOND THOSE PROVIDED BY KING COUNTY AND ANY NECESSARY AGREEMENTS WITH PROPERTY OWNERS PRIOR TO COMMENCING WORK.
3. NOTIFY PROJECT REPRESENTATIVE A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR WRITTEN NOTICE TO PROCEED BY PROJECT REPRESENTATIVE.
4. CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROLS AND TEMPORARY STORMWATER TREATMENT FACILITIES.
5. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND THESE PLANS AND SPECIFICATIONS THROUGHOUT PROJECT.
6. INSTALL TEMPORARY DIVERSION PUMP SYSTEM PER DIVERSION PLAN. CONTRACTOR SHALL ENSURE EXISTING SANITARY SEWER LINES REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION.
7. REHABILITATE EXISTING LS11 FORCE MAIN (CIPP) AND INSTALL NEW FORCE MAIN EXTENSION.
8. REMOVE EXISTING LIFT STATION COMPONENTS PER DEMOLITION PLAN.
9. INSTALL COATINGS IN EXISTING DRY WELL.
10. INSTALL ALL LIFT STATION MODIFICATIONS AND COMPONENTS.
11. REPAIR AND FILL/CHANNEL EXISTING WET WELL AND INSTALL DROP CONNECTION. INSTALL COATINGS.
12. PERFORM TESTING AND START-UP FOR STATION.
13. REMOVE TEMPORARY DIVERSION PUMPING SYSTEM PER DIVERSION PLAN.
14. COMPLETE ALL SITE RESTORATION.
15. REMOVE TEMPORARY BMPS ONLY AFTER ALL DANGER OF EROSION HAS PASSED AND AFTER APPROVAL BY PROJECT REPRESENTATIVE.

**UTILITY NOTES**

1. UTILITIES ENCOUNTERED DURING EXCAVATION SHALL BE TRACED OUT AND REMOVED AND REPLACED OR SUPPORTED AS REQUIRED DURING CONSTRUCTION. INTERRUPTION OF A UTILITY SERVICE TO BUSINESSES OR RESIDENCES SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL FROM THE PROJECT REPRESENTATIVE.
2. ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PROJECT. NOTIFY PROJECT REPRESENTATIVE OF ANY CONFLICTS PRIOR TO PROCEEDING WITH THE WORK. UTILITY VERIFICATION POTHOLING SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. WHEN UTILITY SERVICES OCCUPY THE SAME SPACE AS THE PROPOSED FORCE MAIN OR GRAVITY SEWERS, THE CONTRACTOR SHALL DO ALL NECESSARY EXCAVATION TO FULLY EXPOSE SUCH SERVICES. THE CONTRACTOR SHALL PROTECT SAID SERVICES AND WORK AROUND THEM DURING EXCAVATING AND PIPE LAYING OPERATIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE SERVICES DUE TO THE CONTRACTOR'S OPERATION AND SHALL IMMEDIATELY NOTIFY THE PROJECT REPRESENTATIVE AND ARRANGE FOR REPLACEMENT OF ALL DAMAGED SERVICES.
4. IN THE EVENT OF CONFLICT, THE CONTRACTOR SHALL REMOVE AND RESTORE EXISTING CATCH BASIN CONNECTIONS, INLET CONNECTIONS, DRAINS, SIDE SEWERS, INLETS, AND OTHER SEWAGE, DRAINAGE AND WATER FACILITIES. ALL SEWERAGE AND DRAINAGE RESTORATION SHALL BE CONSTRUCTED TO CURRENT CITY OF MERCER ISLAND OR WSDOT STANDARDS AS APPROPRIATE. MAINLINE WATER LINE, SEWERS AND STORM DRAINS SHALL NOT BE DAMAGED, REMOVED OR RELOCATED EXCEPT AS NOTED, WITHOUT WRITTEN APPROVAL OF THE PROJECT REPRESENTATIVE.
5. ALL ABANDONED PIPES SHALL BE REMOVED AND/OR FILLED WITH CDF AND PLUGGED PER THE LOCAL AGENCY REQUIREMENTS, AND AS SHOWN IN THE DRAWINGS. WHERE ABANDONED IN PLACE, MARK END LOCATIONS ON REDLINES FOR CONSTRUCTION RECORD DRAWINGS.
6. OVERHEAD ELECTRICAL, TELEPHONE, AND CABLE LINES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD LINES IN ALL AREAS AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAWS AND REGULATIONS, UTILITY OWNER, AND SAFE CONSTRUCTION PRACTICES.
7. WHERE CLEARANCE BETWEEN EXISTING OR REPLACED UTILITIES IS 12 INCHES OR LESS, PLACE POLYETHYLENE FOAM BLOCKING ON TOP OF THE LOWEST UTILITY.
8. A MINIMUM COVER OF 3 FT HAS BEEN ADOPTED FROM EXISTING SURFACE LEVEL TO THE CROWN OF THE NEW FORCE MAINS AND GRAVITY MAINS.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL UTILITY RELOCATION REQUIREMENTS.

**SITE PREPARATION NOTES**

1. ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF MERCER ISLAND (COMI) REQUIREMENTS. VARIANCE FROM ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE COMI LAND USE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
2. THE AREA TO BE CLEARED AND GRADED SHALL BE FLAGGED BY THE CONTRACTOR AND APPROVED BY THE CLEARING AND GRADING INSPECTOR PRIOR TO BEGINNING ANY WORK ON THE SITE.
3. A SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH DWGS C011 AND C012, VOLUME 2 AND SHALL BE LOCATED AS SHOWN ON THE APPROVED PLANS OR PER THE PROJECT REPRESENTATIVE.
4. A STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED PER DWG C011, VOLUME 2. THIS PAD MUST REMAIN IN PLACE UNTIL PAVING IS INSTALLED.
5. CLEARING SHALL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS AS SHOWN ON THE CLEARING AND GRADING PERMIT OR PER THE CLEARING AND GRADING INSPECTOR. EXPOSED SOILS SHALL BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING FROM OCTOBER 1ST THROUGH APRIL 30TH. COVER EXPOSED SOILS FROM MAY 1ST THROUGH 30TH SEPTEMBER AT THE END OF EACH CONSTRUCTION COVER EXPOSED SOILS WEEK AND ALSO AT THE THREAT OF RAIN.
6. ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON PROPERTY WITHIN THE CITY LIMITS SHALL BE DONE IN COMPLIANCE WITH A VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIAL SHALL BE APPROVED BY THE CLEARING AND GRADING INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY STOCKPILING.
7. THE CONTRACTOR MUST MAINTAIN A SWEEPER ON SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.

**FOR REFERENCE ONLY**

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 PLOTTED BY: D.Aurig, liscgc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**GENERAL NOTES**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>G601</b>
SHT NO / TOTAL 2 /	REV NO:

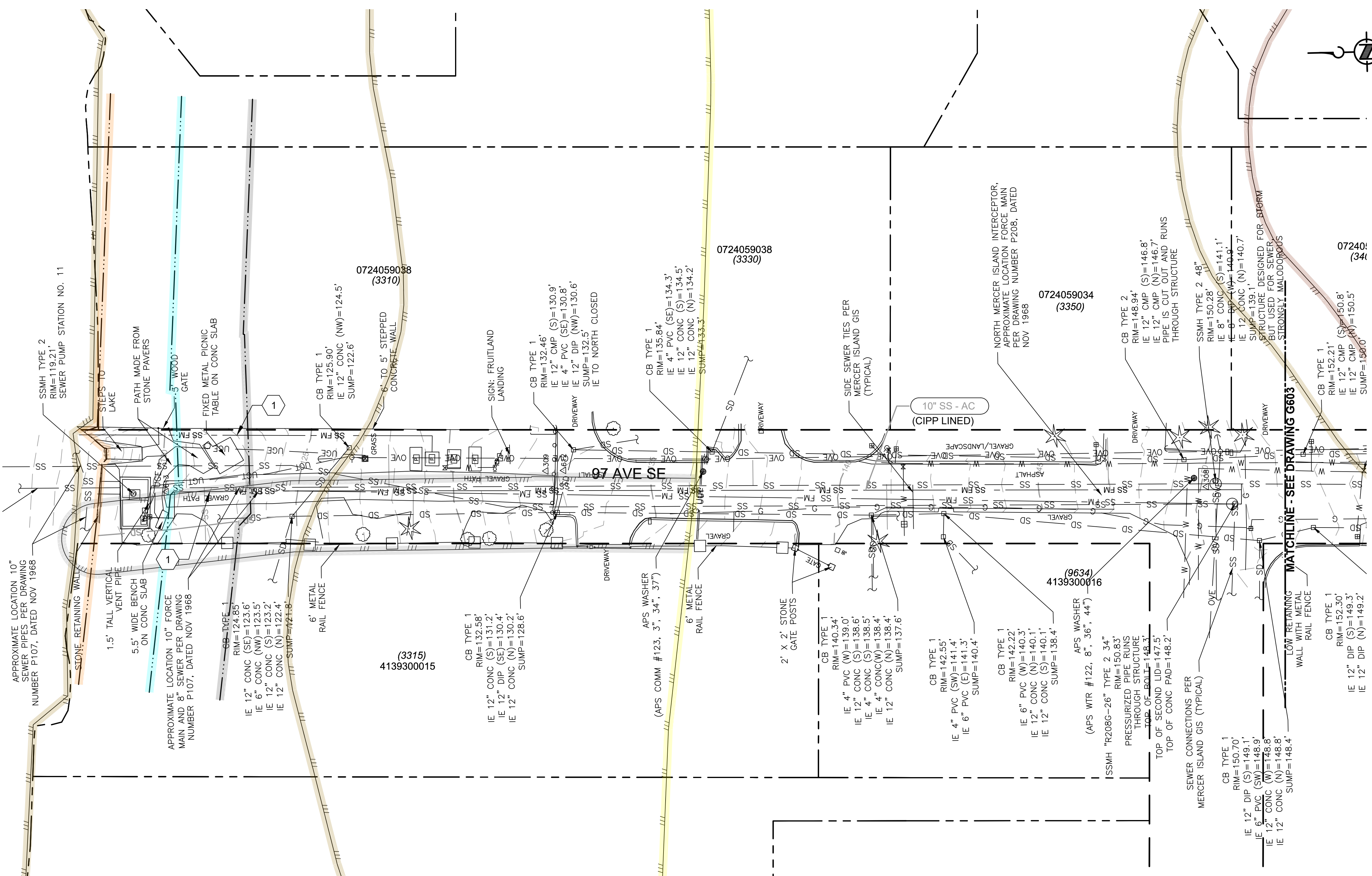


**NOTES:**

- THE INTENT OF THIS DRAWING IS TO PRESENT THE LOCATION OF THE EXISTING SURVEYED INFORMATION.
- PIPE DIAMETERS SHOWN FOR EXISTING UTILITIES ARE NOMINAL. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE DIAMETER PRIOR TO MANUFACTURE OR ORDER OF SPECIFIC LINERS, FITTINGS, OR APPURTENANCES THAT ARE DIAMETER DEPENDENT.
- BASEMAP WAS PROVIDED BY 1 ALLIANCE GEOMETRIC, LLC.

**# KEY NOTES:**

- LINE NOT SURVEYED.



**THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.**

**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
PIPED STREAM BUFFER	ORDINARY HIGH WATER MARK
60' PERENNIAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD BUFFER: STEEP SLOPE
SEISMIC HAZARD AREA	



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
**E. VANBUSKIRK**  
 PROJECT ENGINEER:  
**J. CHAE**  
 DESIGN APPROVAL:  
**R. BROWNE**  
 PROJECT ACCEPTANCE:  
**S. YILDIZ**

SCALE:  
**AS NOTED**  
 0 REFERENCE 1"  
 FACILITY NUMBER:  
**N/A**  
 CONTRACT NO.:  
**C01339C20**



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
**NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS**  
**LIFT STATION 11 FORCE MAIN  
 TOPOGRAPHIC SURVEY**  
**STA 0+00 TO STA 3+64**

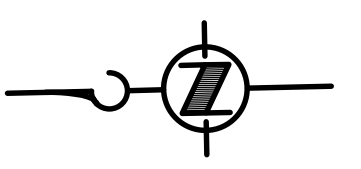
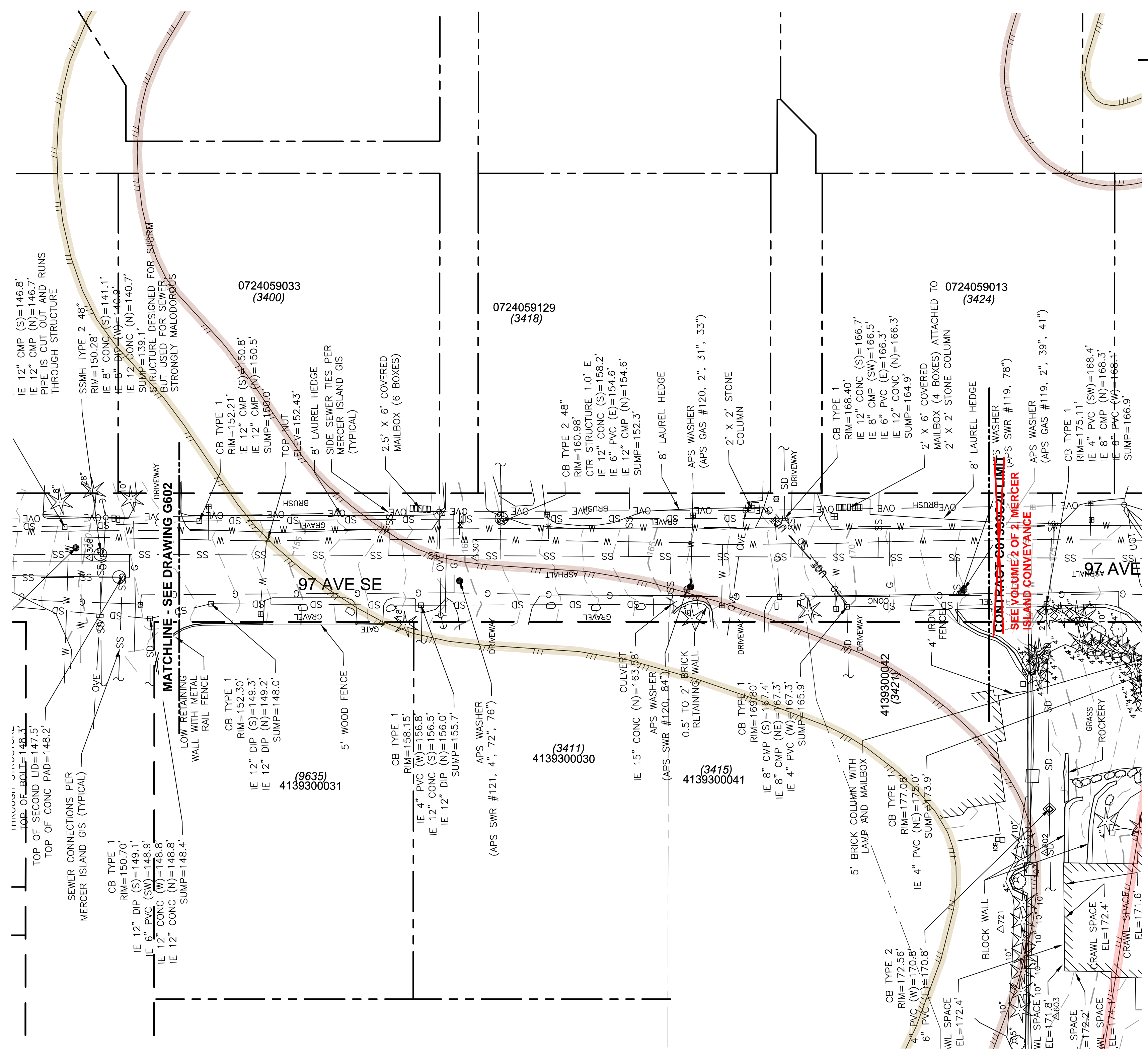
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PROJECT FILE NO.:	DRAWING NO.:
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SHT NO / TOTAL G602 /	REV NO.

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 PLOTTED BY: D.Aurig, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE

**NOTES:**

1. THE INTENT OF THIS DRAWING IS TO PRESENT THE LOCATION OF THE EXISTING SURVEYED INFORMATION.
2. PIPE DIAMETERS SHOWN FOR EXISTING UTILITIES ARE NOMINAL. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE DIAMETER PRIOR TO MANUFACTURE OR ORDER OF SPECIFIC LINERS, FITTINGS, OR APPURTENANCES THAT ARE DIAMETER DEPENDENT.
3. BASEMAP WAS PROVIDED BY 1 ALLIANCE GEOMETRIC, LLC.



**CRITICAL AREAS LEGEND**

	120' POTENTIAL FISH-BEARING STREAM BUFFER		SEISMIC HAZARD AREA
	60' PERENNIAL STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	60' SEASONAL STREAM BUFFER		ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD BUFFER: STEEP SLOPE



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 PLOTTED BY: D.Auriga



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
E. VANBUSKIRK  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
AS NOTED  
 REFERENCE 1" = 40'  
 FACILITY NUMBER:  
N/A  
 CONTRACT NO:  
C01339C20



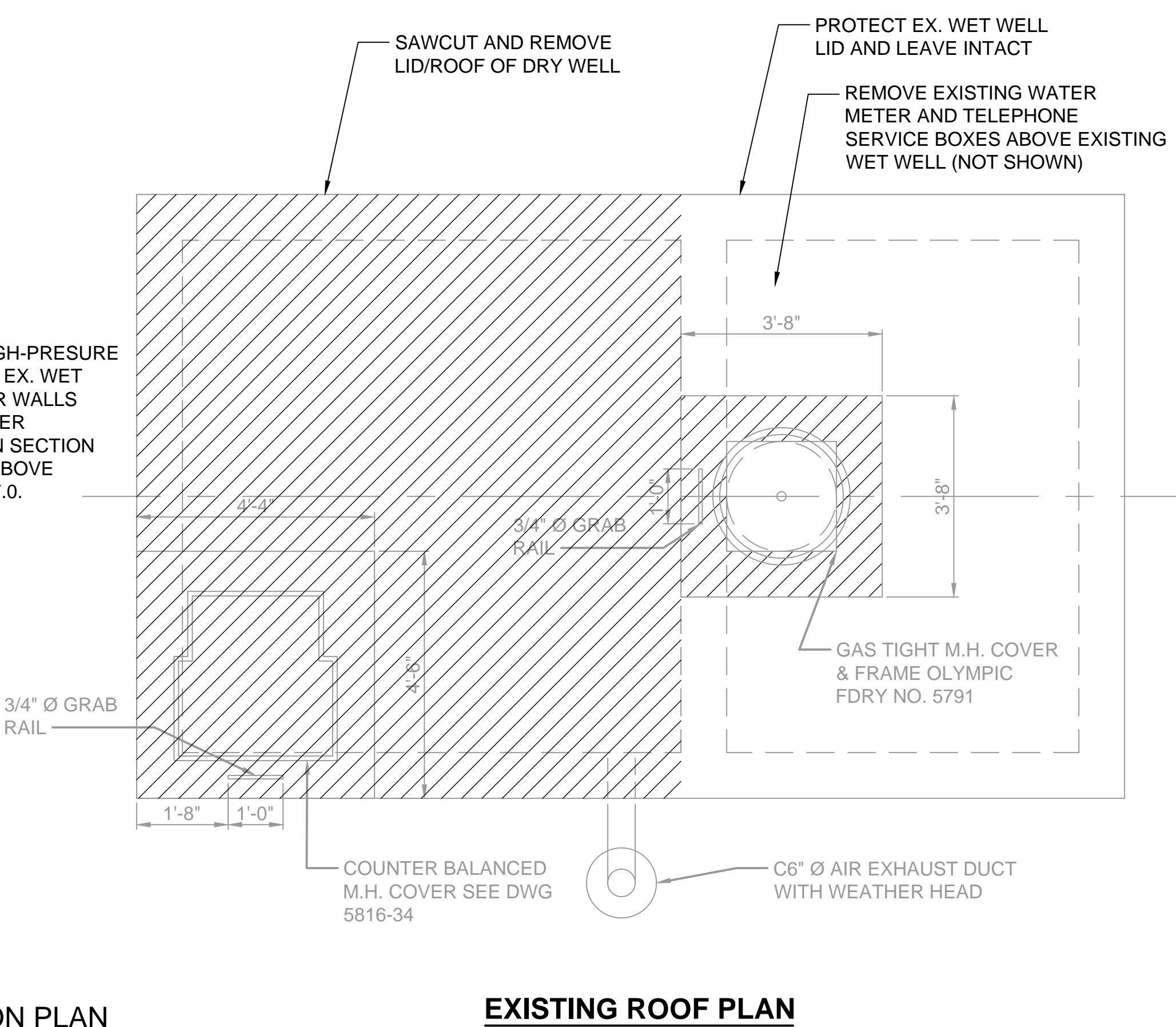
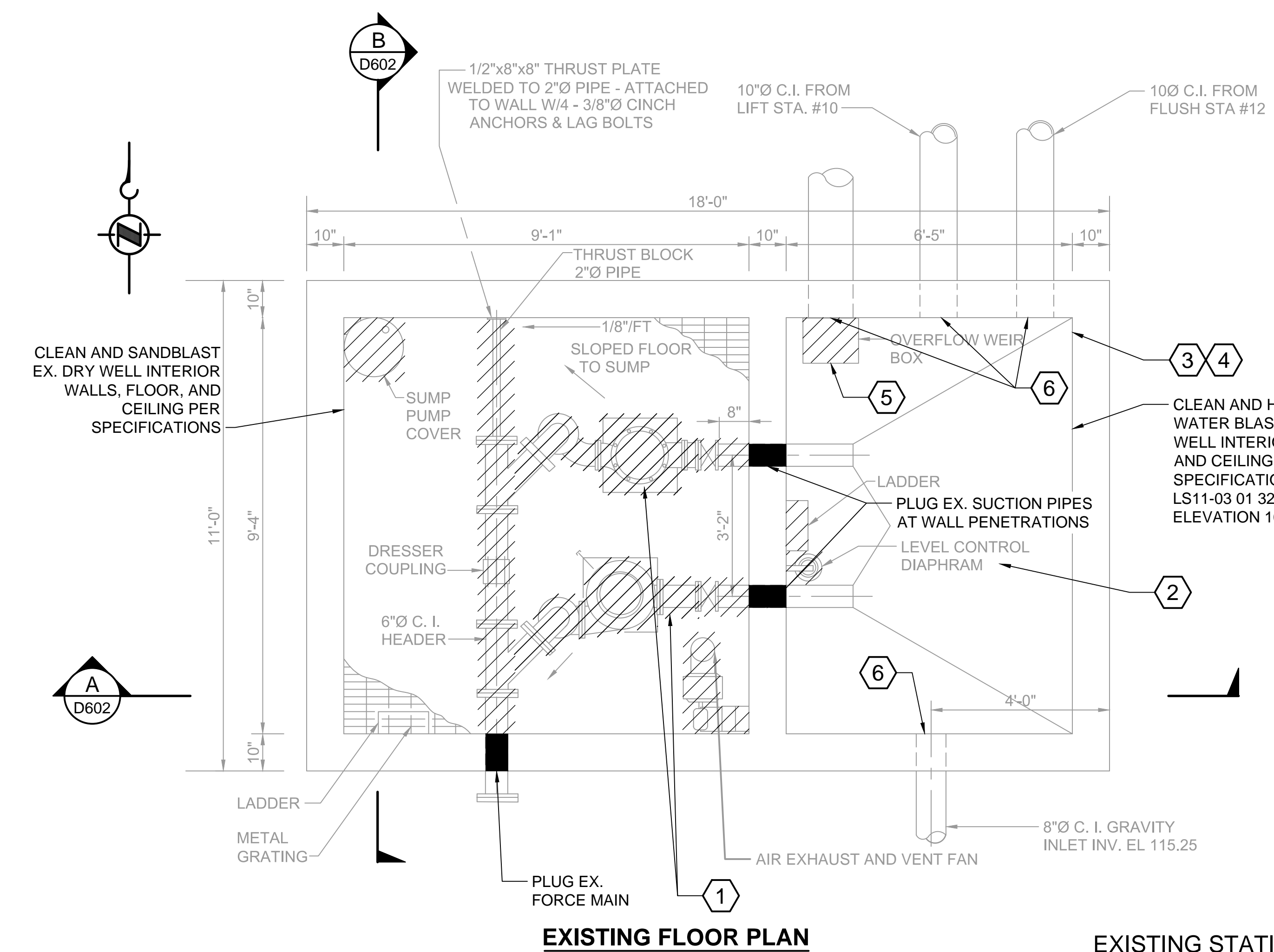
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 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN  
 TOPOGRAPHIC SURVEY  
 STA 3+64 TO STA 6+16**

DCN:	DATE:	05/02/2019
PROJECT FILE NO.:	DRAWING NO.:	<b>G603</b>
SHT NO / TOTAL	REV NO.	6603 /

NO	REVISION DESCRIPTION	BY	APVD	DATE

**NOTES:**

- CONTRACTOR SHALL REMOVE EXISTING STATION COMPONENTS AND SALVAGE OR RECYCLE/DISPOSE OF THEM AS REQUIRED AND APPROVED BY THE PROJECT REPRESENTATIVE.
- ALL MATERIALS IDENTIFIED FOR REMOVAL AND NOT TO BE SALVAGED TO CITY SHALL BE HAULED OFFSITE AND RECYCLED OR DISPOSED OF PER SPECIFICATIONS AT AN APPROVED WASTE DISPOSAL SITE SELECTED BY CONTRACTOR.
- INTERIOR WALL/ROOF/FLOOR DEFORMATIONS/DAMAGE CAUSED BY REMOVAL OF EQUIPMENT, BRACKETS, AND BOLTS SHALL BE FILLED WITH NON-SHRINK GROUT AND FINISHED FLUSH WITH WALL FACES.
- FILL ALL ABANDONED/UNUSED PIPE/CONDUIT PENETRATIONS WITH NON-SHRINK GROUT PER DETAILS A AND B THIS SHEET.
- COORDINATE WITH PROJECT REPRESENTATIVE FOR DEACTIVATING AND LOCKING OUT POWER TO EXISTING FACILITIES PRIOR TO DEMOLITION. REMOVE AND DISPOSE OF ALL EXPOSED CONDUIT AND CABLE WITHIN EX. WET WELL AND DRY WELL. REMOVE AND DISPOSE BURIED CONDUIT AND CABLE TO BE ABANDONED THAT IS EXPOSED DURING WORK, OTHERWISE ABANDON IN PLACE.
- SEE SHEET C602 FOR DEMOLITION OF EX. PARK BENCH CONCRETE SLAB (NOT SHOWN THIS SHEET).



**EXISTING STATION PLAN**

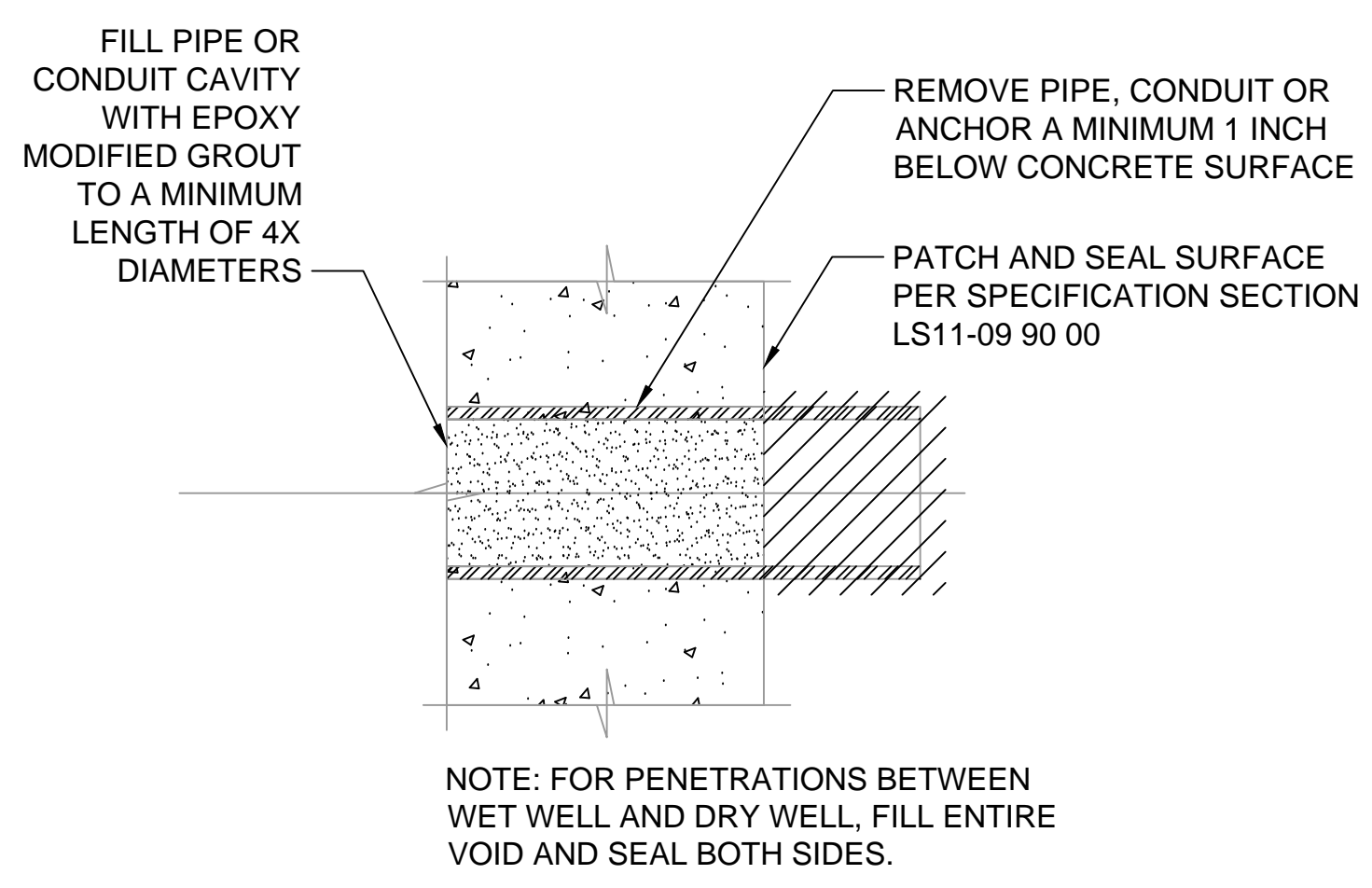
**EXISTING ROOF PLAN**

**DETAIL 1**  
SCALE: NTS  
D601

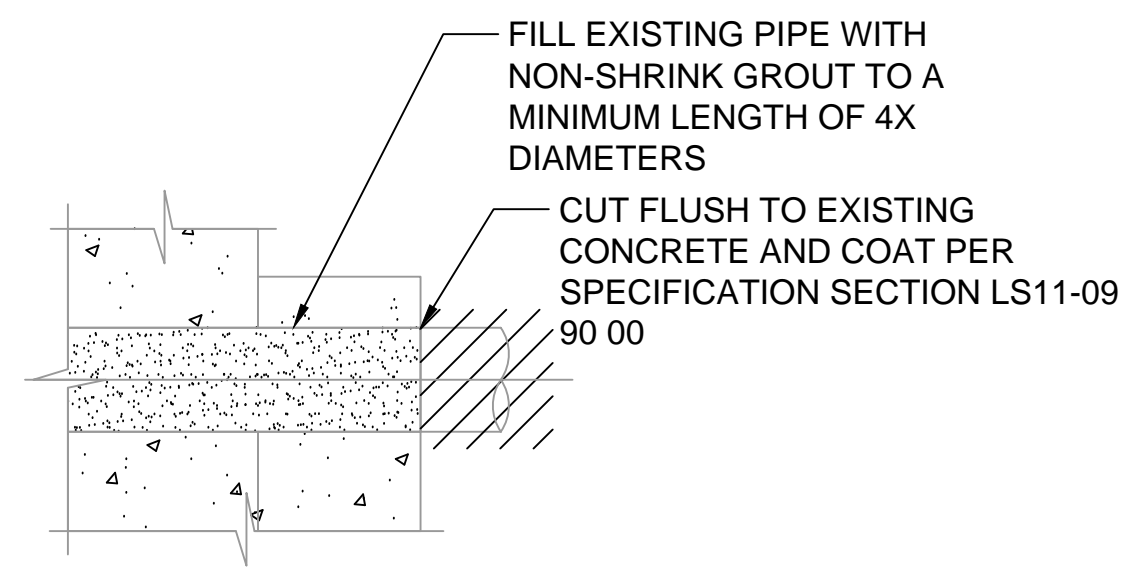
**KEY NOTES:**

- EXISTING DRY WELL: REMOVE SEWAGE PUMPS, MOTORS, VALVES, AND ASSOCIATED PIPING WITHIN EX. DRY WELL. REMOVE SUMP PUMP, COVER, PIPING, VENT FAN, AIR DUCT AND HOOD, MISC. PIPING, LEVEL CONTROL SYSTEM, AND RELATED APPURTENANCES. SALVAGE PUMPS, MOTORS, TSI CONTROL/TELEMETRY PANEL, ELECTRICAL DISCONNECT, FUSE PANEL, FUSES AND EQUIPMENT TROLLEY HOIST/BEAM (NOT SHOWN) TO CITY MAINTENANCE SHOP AND RECYCLE/DISPOSE OF OTHER ITEMS.
- EXISTING WET WELL: PREVIOUS LEVEL CONTROL SYSTEM WAS REPLACED WITH A SUBMERSIBLE LEVEL TRANSDUCER AND FLOATS IN EX. WET WELL. SALVAGE EXISTING LEVEL TRANSDUCER FOR USE IN NEW WET WELL. PULL AND KEEP EXISTING TRANSDUCER CABLE INTACT, CLEAN/DISINFECT TRANSDUCER AND CABLE PRIOR TO RE-USE. REMOVE AND RECYCLE/DISPOSE EXISTING FLOATS AND ANY REMAINING COMPONENTS OF PREVIOUS LEVEL CONTROL SYSTEM IN EX. WET WELL.
- EXISTING WET WELL: REMOVE AND RECYCLE/DISPOSE OF ALL INTERIOR COMPONENTS, EXCEPT AS DESCRIBED IN NOTE 2.
- EXISTING CONCRETE LID AND WALLS IN EX. WET WELL HAVE HYDROGEN SULFIDE DAMAGE. CLEAN EX. WET WELL INTERIOR WALLS AND HIGH-PRESSURE WATER BLAST TO REMOVE LOOSE, AND DAMAGED CONCRETE, TO EXPOSED REBAR AS NEEDED. SEE SPECIFICATION SECTION 01 13 00, VOLUME 1, FOR REFERENCE TO MEMO SUMMARIZING OBSERVATIONS OF EXISTING WET WELL CONDITIONS AND PHOTOS.
- REMOVE EXISTING WEIR BOX FROM EX. WET WELL. LEAVE OUTGOING PIPE INTACT.
- PROTECT EXISTING PIPE DURING CLEANING AND WATER BLASTING OPERATIONS TO PREVENT DAMAGE AND SEDIMENTATION.

**FOR REFERENCE ONLY**



**DETAIL A**  
SCALE: NTS



**DETAIL B**  
SCALE: NTS

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PLOT DATE: 7/26/2019 10:44 AM  
PLOT BY: Daminson, Janet

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

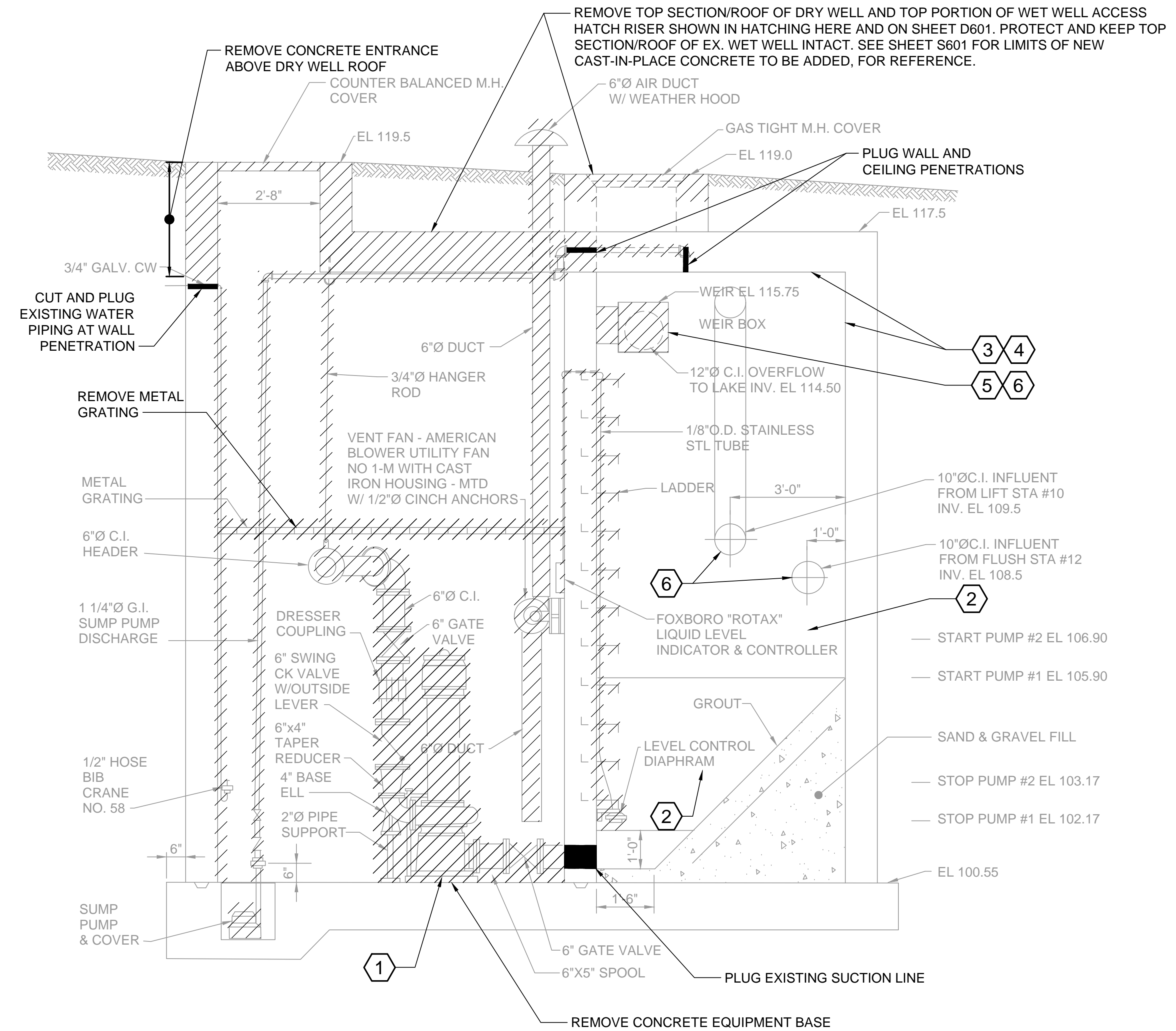
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FACILITY NUMBER: N/A  
CONTRACT NO: C01339C20



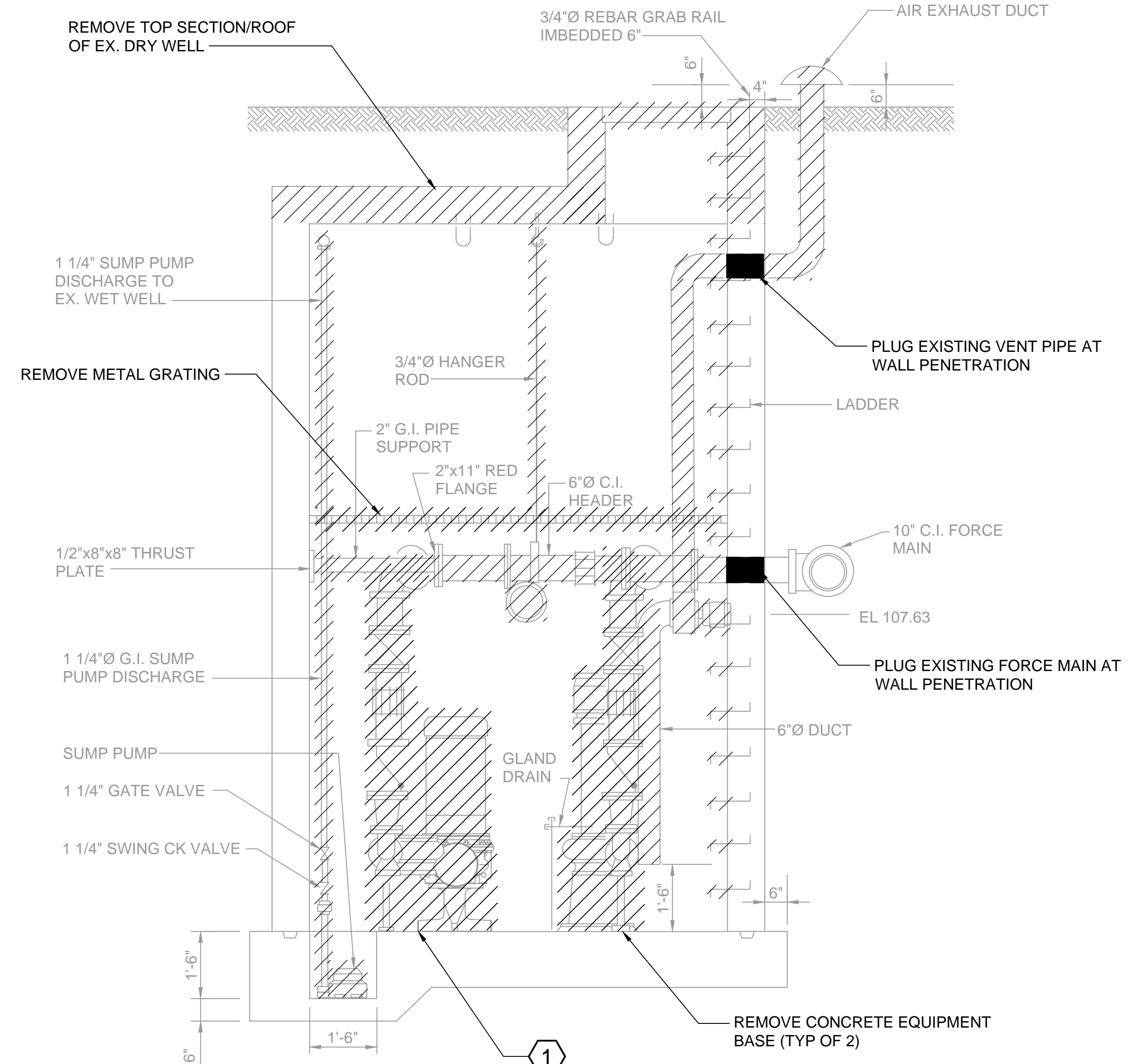
DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

**LIFT STATION 11  
DEMOLITION PLAN  
AND NOTES**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>D601</b>
SHT NO / TOTAL: 358 / 393	REV NO:



SECTION A  
SCALE: NTS  
D601

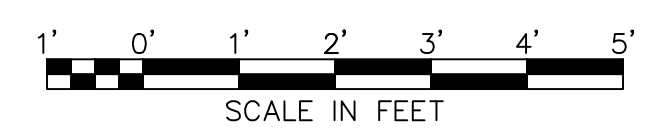


SECTION B  
SCALE: NTS  
D601

KEY NOTES:

- EXISTING DRY WELL: REMOVE SEWAGE PUMPS, MOTORS, VALVES, AND ASSOCIATED PIPING WITHIN EX. DRY WELL. REMOVE SUMP PUMP, COVER, PIPING, VENT FAN, AIR DUCT AND HOOD, MISC. PIPING, LEVEL CONTROL SYSTEM, AND RELATED APPURTENANCES. SALVAGE PUMPS, MOTORS, TSI CONTROL/TELEMETRY PANEL, ELECTRICAL DISCONNECT, FUSE PANEL, FUSES AND EQUIPMENT TROLLEY HOIST/BEAM (NOT SHOWN) TO CITY MAINTENANCE SHOP AND RECYCLE/DISPOSE OF OTHER ITEMS.
- EXISTING WET WELL: PREVIOUS LEVEL CONTROL SYSTEM WAS REPLACED WITH A SUBMERSIBLE LEVEL TRANSDUCER AND FLOATS IN EX. WET WELL. SALVAGE EXISTING LEVEL TRANSDUCER FOR USE IN NEW WET WELL. PULL AND KEEP EXISTING TRANSDUCER CABLE INTACT, CLEAN/DISINFECT TRANSDUCER AND CABLE PRIOR TO RE-USE. REMOVE AND RECYCLE/DISPOSE EXISTING FLOATS AND ANY REMAINING COMPONENTS OF PREVIOUS LEVEL CONTROL SYSTEM IN EX. WET WELL.
- EXISTING WET WELL: REMOVE AND RECYCLE/DISPOSE OF ALL INTERIOR COMPONENTS, EXCEPT AS DESCRIBED IN NOTE 2.
- EXISTING CONCRETE LID AND WALLS IN EX. WET WELL HAVE HYDROGEN SULFIDE DAMAGE. CLEAN EX. WET WELL INTERIOR WALLS AND HIGH-PRESSURE WATER BLAST TO REMOVE LOOSE, AND DAMAGED CONCRETE, TO EXPOSED REBAR AS NEEDED. SEE SPECIFICATION SECTION 01 13 00, VOLUME 1, FOR REFERENCE TO MEMO SUMMARIZING OBSERVATIONS OF EXISTING WET WELL CONDITIONS AND PHOTOS.
- REMOVE EXISTING WEIR BOX FROM EX. WET WELL. LEAVE OUTGOING PIPE INTACT.
- PROTECT EXISTING PIPE DURING CLEANING AND WATER BLASTING OPERATIONS TO PREVENT DAMAGE AND SEDIMENTATION.

**FOR REFERENCE ONLY**



BORDER FILE EDITION: KCWTD\_2012.Dwg-TP-Boiler  
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 PLOTTED BY: Daminson, Janet

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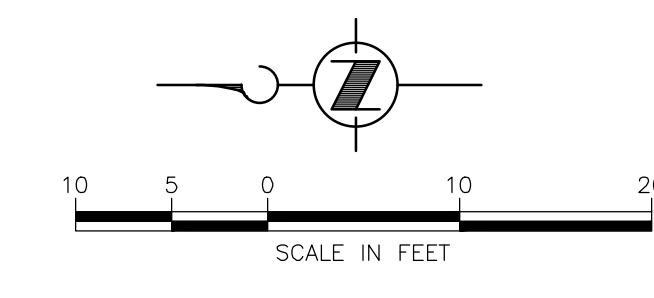
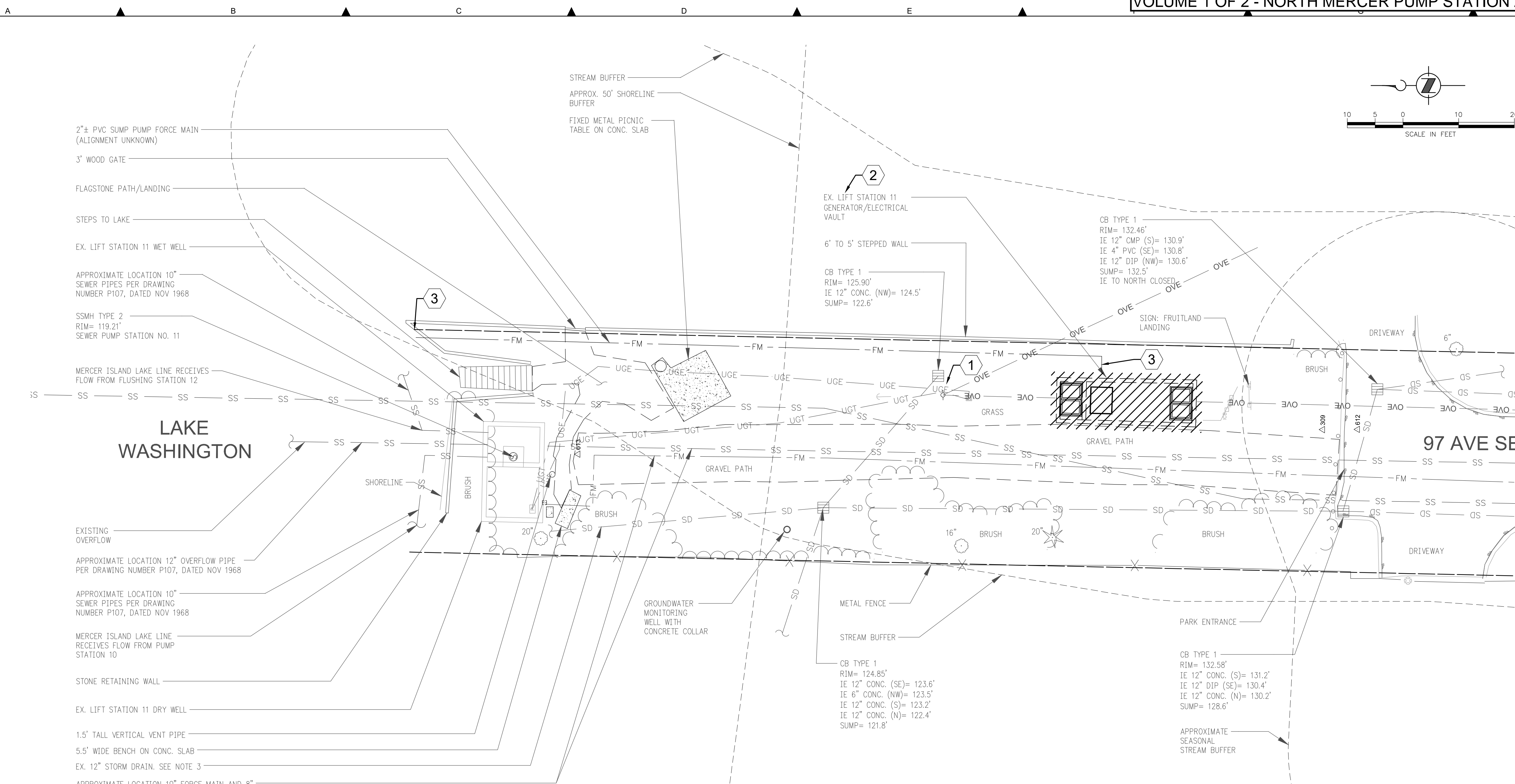
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11  
 DEMOLITION SECTIONS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>D602</b>
SHT NO / TOTAL 359 / 393	REV NO:



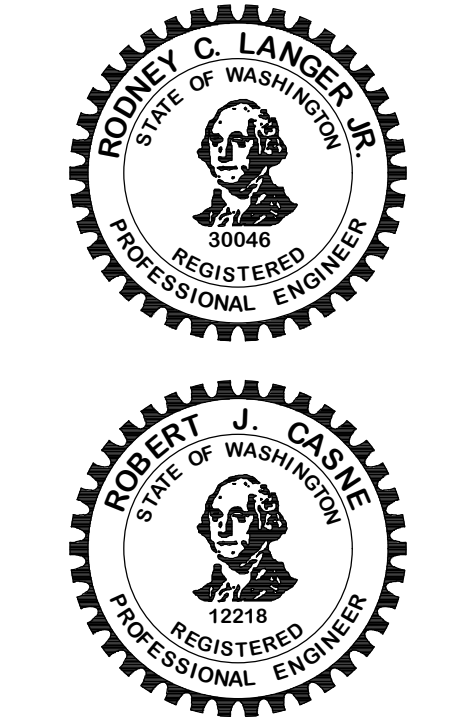
- 2"± PVC SUMP PUMP FORCE MAIN (ALIGNMENT UNKNOWN)
- 3' WOOD GATE
- FLAGSTONE PATH/LANDING
- STEPS TO LAKE
- EX. LIFT STATION 11 WET WELL
- APPROXIMATE LOCATION 10" SEWER PIPES PER DRAWING NUMBER P107, DATED NOV 1968
- SSMH TYPE 2 RIM= 119.21' SEWER PUMP STATION NO. 11
- MERCER ISLAND LAKE LINE RECEIVES FLOW FROM FLUSHING STATION 12
- LAKE WASHINGTON
- SHORELINE
- BRUSH
- EXISTING OVERFLOW
- APPROXIMATE LOCATION 12" OVERFLOW PIPE PER DRAWING NUMBER P107, DATED NOV 1968
- APPROXIMATE LOCATION 10" SEWER PIPES PER DRAWING NUMBER P107, DATED NOV 1968
- MERCER ISLAND LAKE LINE RECEIVES FLOW FROM PUMP STATION 10
- STONE RETAINING WALL
- EX. LIFT STATION 11 DRY WELL
- 1.5' TALL VERTICAL VENT PIPE
- 5.5' WIDE BENCH ON CONC. SLAB
- EX. 12" STORM DRAIN. SEE NOTE 3
- APPROXIMATE LOCATION 10" FORCE MAIN AND 8" SEWER PER DRAWING NUMBER P107, DATED NOV 1968

**NOTES:**

1. NOT ALL EXISTING UTILITIES SHOWN.
2. EXISTING SITE CONDITIONS SHOWN PER BASE MAP PROVIDED BY KING COUNTY/JACOBS TO CITY AND CHS ENGINEERS ON FEB, 18 2019.
3. LOCATION OF EXISTING 12" CONCRETE SD AS DETERMINED BY CITY OPERATIONS CREW FEB 27, 2019, DEPTH OF COVER=16"±.

**KEY NOTES:**

1. COORDINATE WITH PROJECT REPRESENTATIVE TO HAVE PROVIDERS DISCONNECT EX. POWER AND COMMUNICATION SERVICE TO LIFT STATION, NO SOONER THAN TEN BUSINESS DAYS FOLLOWING TESTING, COMMISSIONING AND STARTUP OF MODIFIED LIFT STATION 11. REMOVE ELECTRICAL METER BASE, DISCONNECT, EQUIPMENT POST AND MOUNTING BOARD, CONDUITS, CONDUCTORS AND HARDWARE, ALL TO 24-INCHES BELOW GRADE. CAP CONDUITS BELOW GRADE AND BACKFILL VOIDS WITH TOPSOIL.
2. REMOVE EX. STANDBY POWER FACILITY PER DETAILS, DRAWING NO. D604. BACKFILL VOIDS TO 24-INCHES BELOW GROUND ELEVATION WITH GRAVEL BORROW PER WSDOT STANDARD SPECIFICATIONS 9-03.14(1). COMPACTED PER WSDOT STANDARD SPECIFICATIONS 2-03.3(14)C. BACKFILL TO GROUND LEVEL WITH TOPSOIL COMPACTED TO 85% MAXIMUM DRY DENSITY. COMPLETE SURFACE RESTORATION AND LANDSCAPING PER DRAWING NO. L601 AND L602.
3. AT SHORELINE, CUT EX. 2" +/- PVC FORCE MAIN AS CLOSE TO ROCKERY AS FEASIBLE AND CAP. AT GENERATOR VAULT, CAP PIPE OUTSIDE LIMITS OF VAULT.



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 rjcasne@wavecable.com

**NOTE TO REVIEWER:**  
 KEY NOTE 2 TO BE COORDINATED WITH THE EARTHWORKS SPECIFICATION, AS NEEDED, AFTER 90% REVIEW.

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCWTD-2012-Detize-TB-Border  
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 PLOTTED BY: Scott Stenerhime

NO	REVISION DESCRIPTION	BY	APVD	DATE



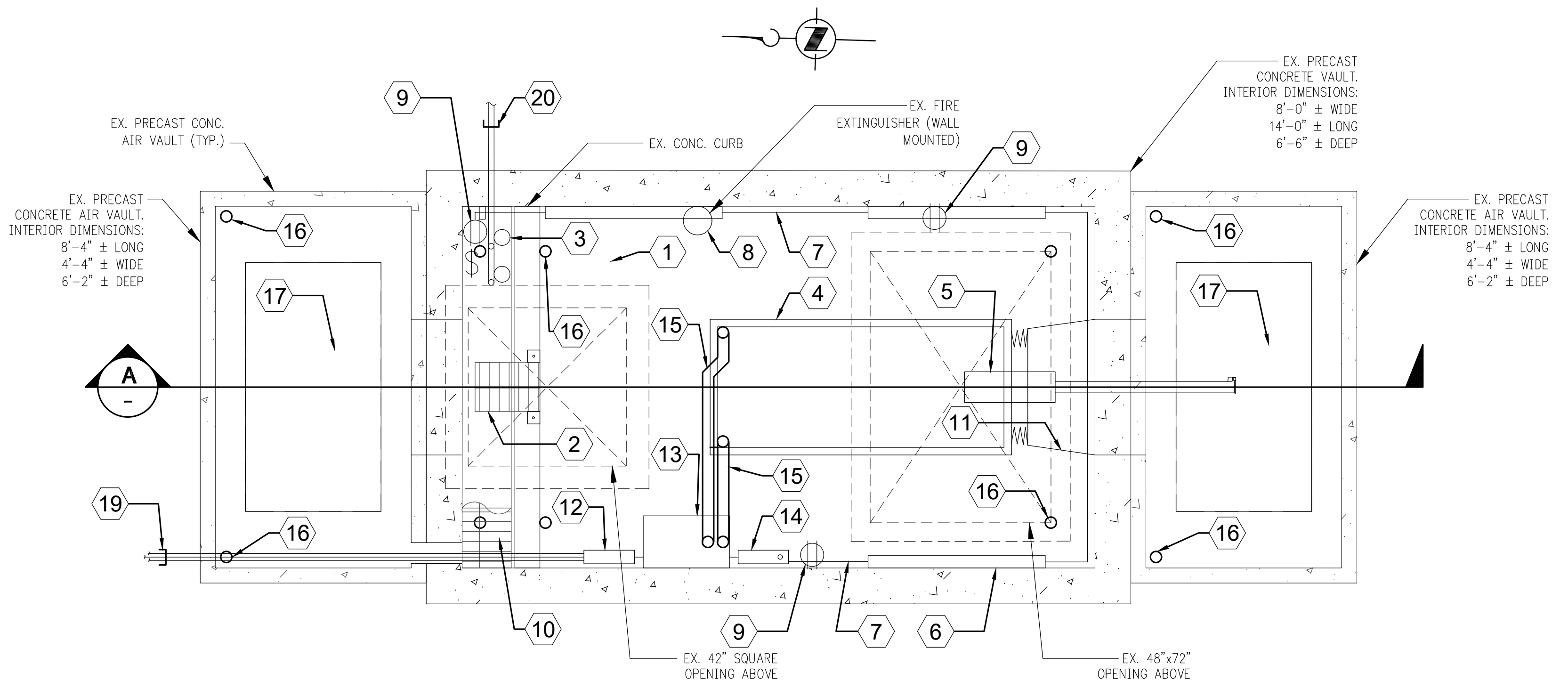
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
 CHS ENGINEERS, LLC  
 PROJECT ENGINEER:  
 J. CHAE  
 DESIGN APPROVAL:  
 R. BROWNE  
 PROJECT ACCEPTANCE:  
 S. YILDIZ

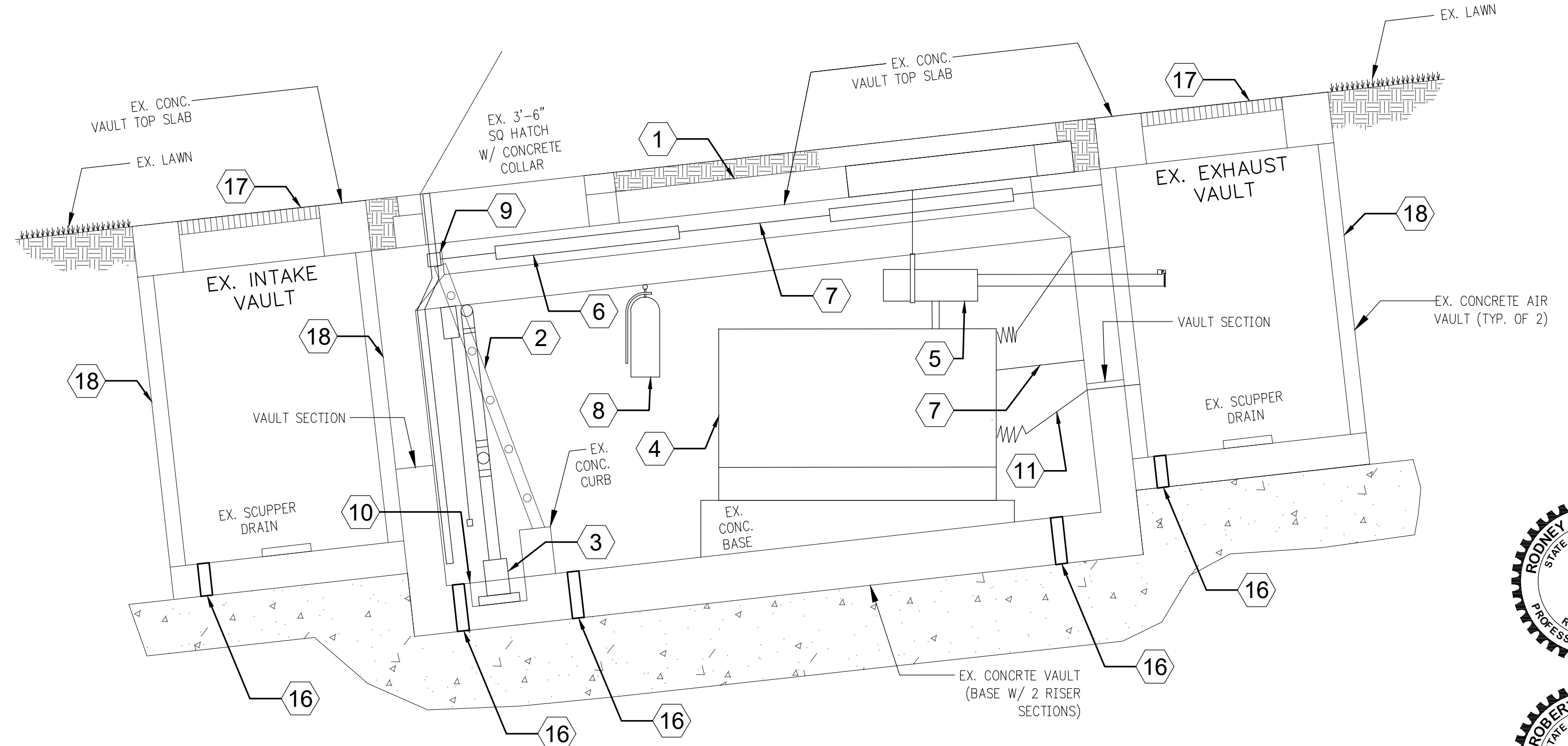
SCALE:  
 1"=10'  
 REFERENCE 1"  
 FACILITY NUMBER:  
 N/A  
 CONTRACT NO:  
 C01339C20

DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11  
 GENERATOR  
 DEMOLITION**

DCN:  
 DATE: 05/02/2019  
 PROJECT FILE NO:  
 DRAWING NO: **D603**  
 SHT NO / TOTAL: 360 / 393  
 REV NO:



PLAN - LS #11 EXISTING GENERATOR VAULT

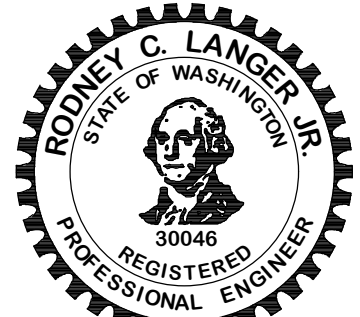


SECTION - LS #11 EXISTING GENERATOR VAULT



- KEY NOTES:
- 1 REMOVE EX. TOP SLAB INCLUDING REMOVABLE PANEL AND ACCESS HATCH AND COLLAR. SLAB MAY BE BROKEN INTO SMALLER SECTIONS TO FACILITATE REMOVAL FROM VAULT OR SITE.
  - 2 REMOVE EX. LADDER.
  - 3 REMOVE AND SALVAGE TWO EX. SUMP PUMPS, ASSOCIATED PIPING AND APPURTENANCES TO CITY MAINTENANCE SHOP AT 9601 SE 36TH ST. MERCER ISLAND, WA WITHIN ONE WEEK OF REMOVAL.
  - 4 DRAIN ALL COOLANT, OIL AND FUEL. RECYCLE, OR DISPOSE ALL FUEL AND FLUIDS TO THE APPROPRIATE LOCATIONS. REMOVE BATTERIES AND BATTERY CHARGER, AND ALL GENERATOR APPURTENANCES AND HARDWARE. SALVAGE EX. GENERATOR WITH FUEL TANK TO CITY MAINTENANCE SHOP WITHIN ONE WEEK OF REMOVAL. COVER EQUIPMENT UNTIL DELIVERED.
  - 5 REMOVE EX. MUFFLER, EXHAUST PIPE, AND SUPPORTS. SALVAGE MUFFLER TO CITY MAINTENANCE SHOP WITHIN ONE WEEK OF REMOVAL.
  - 6 REMOVE EX. LIGHTING (TYP OF THREE).
  - 7 REMOVE EX. POWER CONDUIT (TYP).
  - 8 REMOVE EX. FIRE EXTINGUISHER.
  - 9 REMOVE EX. LIGHT SWITCH AND RECEPTACLE (TYP).
  - 10 REMOVE EX SUMP GRATING.
  - 11 REMOVE EX. GENERATOR AIR DUCT.
  - 12 REMOVE EX. MAIN BREAKER BOX.
  - 13 REMOVE EX. AUTOMATIC TRANSFER SWITCH (ATS).
  - 14 REMOVE EX. POWER PANEL.
  - 15 REMOVE EX. CONDUIT AND WIRE FROM GENERATOR TO ATS.
  - 16 CORE DRILL TEN HOLES THROUGH VAULT FLOOR (TYP), BORE HOLES SHALL BE FULL FLOOR DEPTH AND A MINIMUM OF THREE INCHES IN DIAMETER. FILL WITH CRUSHED SURFACING TOP COURSE.
  - 17 REMOVE EX. INLET AND OUTLET VAULT GRATED HATCHES AND COLLARS.
  - 18 DEMOLISH EXISTING GENERATOR, INTAKE, AND EXHAUST VAULTS TO A MINIMUM OF FOUR FEET BELOW GRADE. CONTRACTOR MAY CHOOSE TO REMOVE FULL TOP HALF SECTION OF VAULT. BACKFILL GENERATOR VAULT, INLET, AND EXHAUST VAULT PER FLAG NOTE 2 - SHEET D603.
  - 19 CAP EXISTING CONDUITS OUTSIDE LIMITS OF VAULT.
  - 20 SEE FLAG NOTE 3 - SHEET D603.

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 FILE LOCATION: \\80-Misc-Mum\001903 - Mercer Island LS #11 Generator\CAD\001903 - BASE - Jacobs TB.dwg  
 PLOT DATE: 4/22/2019 2:37 PM  
 PLOTTED BY: Scott Sticher



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**FOR REFERENCE ONLY**

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 SEPTEMBER 2019

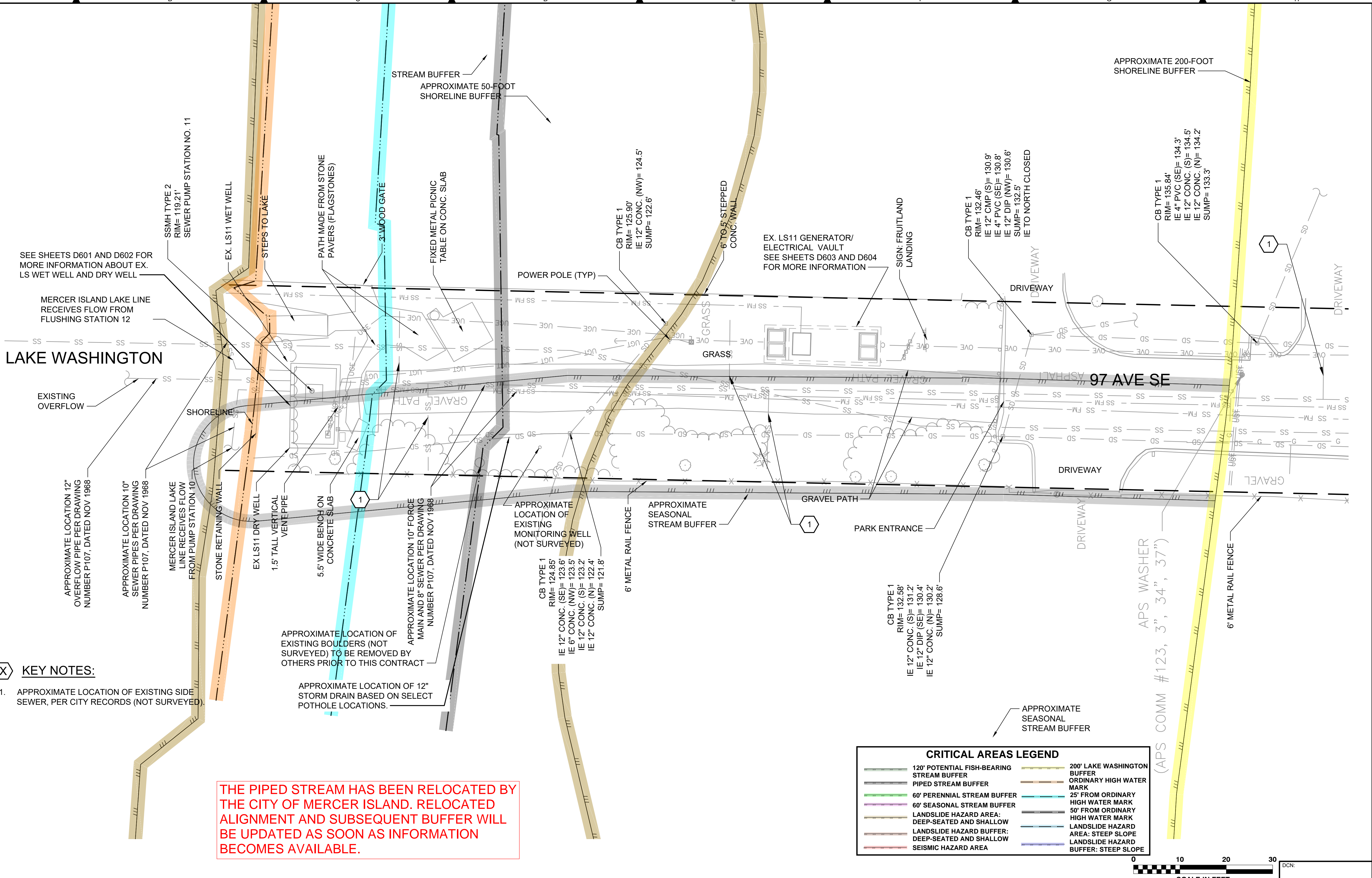
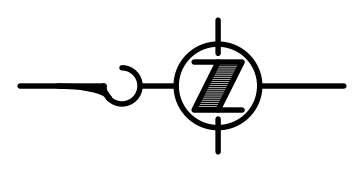
DESIGNED/DRAWN: CHS ENGINEERS, LLC  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: 1"=10'  
 REFERENCE 1"  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11  
 GENERATOR  
 DEMOLITION**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>D604</b>
SHT NO / TOTAL: 361 / 393	REV NO:



- KEY NOTES:**
- APPROXIMATE LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

	120' POTENTIAL FISH-BEARING STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	PIPED STREAM BUFFER		ORDINARY HIGH WATER MARK
	60' PERENNIAL STREAM BUFFER		25' FROM ORDINARY HIGH WATER MARK
	60' SEASONAL STREAM BUFFER		50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD BUFFER: STEEP SLOPE
	SEISMIC HAZARD AREA		



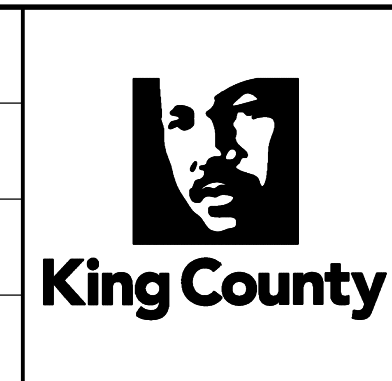
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 PLOTTED BY: D.Auriga, lsgdc

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**PRELIMINARY ISSUE DRAWING**  
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 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

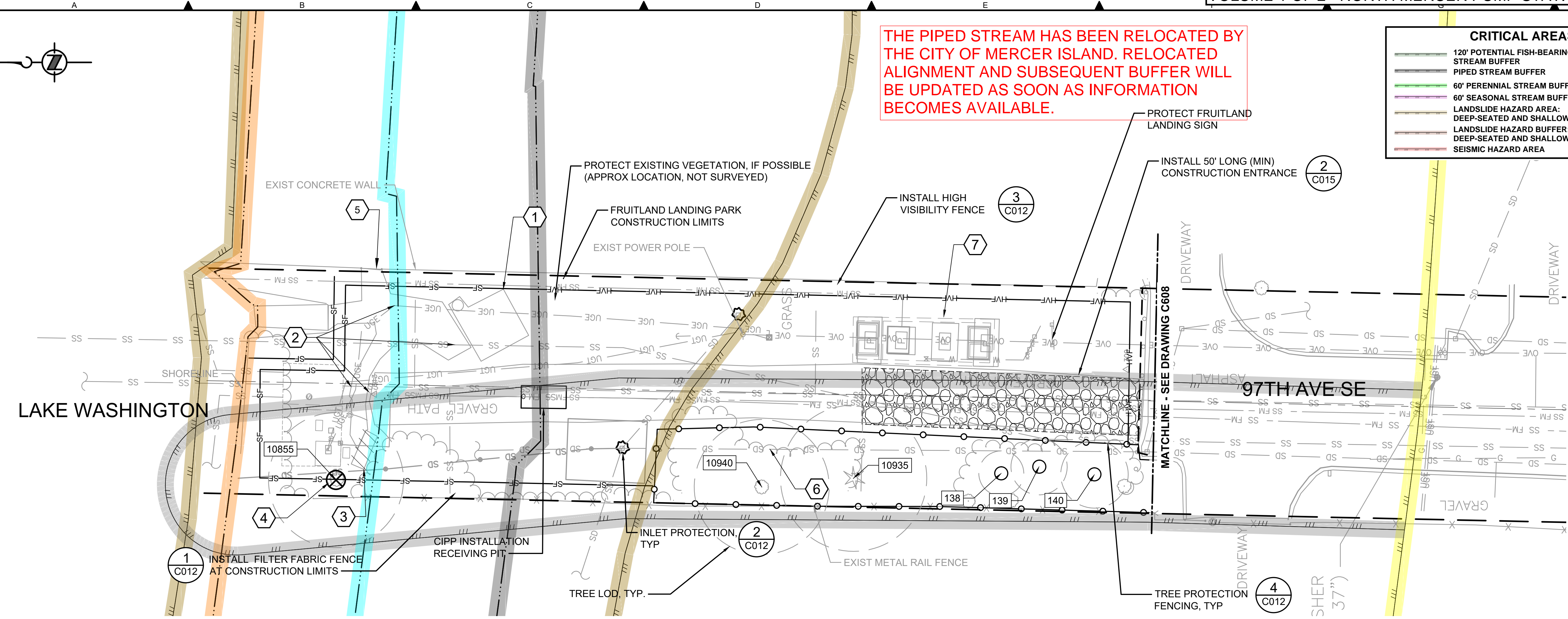


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**EXISTING SITE PLAN**

DATE:	05/02/2019
PROJECT FILE NO.:	
DRAWING NO.:	<b>C601</b>
SHT NO / TOTAL	
REV NO.	

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND			
	120' POTENTIAL FISH-BEARING STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	PIPED STREAM BUFFER		ORDINARY HIGH WATER MARK
	60' PERENNIAL STREAM BUFFER		25' FROM ORDINARY HIGH WATER MARK
	60' SEASONAL STREAM BUFFER		50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD BUFFER: STEEP SLOPE
	SEISMIC HAZARD AREA		



**NOTES:**

- FRUITLAND LANDING PARK TO BE CLOSED FOR THE DURATION OF CONSTRUCTION.
- FOR TESC GENERAL NOTES, SEE DRAWING C011.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND IMPLEMENTING AN APPROPRIATE PLAN FOR EXCAVATIONS. PLAN SHALL BE IN ACCORDANCE WITH APPLICABLE GEOTECHNICAL RECOMMENDATIONS FOR THE SITE. CONTRACTOR SHALL DISCHARGE PUMPED GROUNDWATER IN SUCH A MANNER THAT ALL SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS. ALL DEWATERING EFFLUENT SHALL BE DISCHARGED WITHIN AN EXISTING NATURAL DRAINAGE COURSE OR TO AN EXISTING STORM DRAIN (OR POTENTIALLY THE NEW WET WELL) AND SHALL MEET CURRENT WATER QUALITY STANDARDS FOR SAID DISCHARGES. REFER TO DEWATERING SPECIFICATION. CONTRACTOR SHALL APPLY FOR AND OBTAIN ANY ADDITIONAL REQUIRED PERMIT(S) TO PERFORM THIS WORK.
- ALL EXCAVATION WORK SHALL BE DONE IN SUCH A MANNER AS TO NOT IMPACT PROPERTY AND STRUCTURES OUTSIDE THE PARK PROPERTY OR RIGHT-OF-WAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY SHORING THAT MAY BE REQUIRED FOR THE EXCAVATION. CONTRACTOR SHALL SUBMIT NECESSARY PLANS AND CALCULATIONS COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL SITE SAFETY, INCLUDING PROPER EXCAVATION AND SHORING METHODS, AND PROTECTION OF ADJACENT PROPERTIES. EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH APPLICABLE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT FOR THE SITE.
- CONTRACTOR SHALL PROVIDE ALL DEWATERING ACTIVITIES ASSOCIATED WITH REMOVING ANY ADDITIONAL WATER WHICH ENTERS EXCAVATIONS THROUGH AND/OR RESULTING FROM THE EXISTING FORCE MAIN REHABILITATION, INSTALLATION OF THE NEW FORCE MAIN, AND TRENCHES UPSTREAM OF THE EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING WATER AND LIMITING DISCHARGE TO DOWNSTREAM EXCAVATIONS.
- SEE SHEET C608 AND 609 FOR ADDITIONAL TREES TO PROTECT.

- SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
- TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

**(X) KEY NOTES:**

- CITY WILL TEMPORARILY REMOVE EXISTING PICNIC TABLE TO A SECURE STORAGE AREA PRIOR TO CONSTRUCTION. PROTECT EXIST CONCRETE SLAB DURING CONSTRUCTION. DO NOT DRIVE VEHICLES OVER SLAB. CITY TO REINSTALL TABLE AFTER LIFT STATION IMPROVEMENTS.
- REMOVE, PROTECT, AND STORE EXIST FLAGSTONES BETWEEN BENCH SLAB AND PICNIC TABLE SLAB DURING CONSTRUCTION. RELOCATE PER SHEET C605 AND L601 DURING SITE RESTORATION.
- CITY WILL TEMPORARILY REMOVE EXISTING PARK BENCH TO A SECURE STORAGE AREA PRIOR TO CONSTRUCTION. DEMOLISH EXISTING CONCRETE SLAB.
- REMOVE EXISTING TREE.
- CONTRACTOR SHALL LOCK THE GATE FOR CONTRACT DURATION.
- VEGETATION EXTENT (NOT TREES) BEYOND THE TREE PROTECTION FENCING EXTENT SHOWN IS TO BE TRIMMED PRIOR TO FENCING PLACEMENT.
- AFTER GENERATOR SET NOT NEEDED, TEMPORARY SEDIMENTATION TANK COULD POTENTIALLY BE PLACED ABOVE THE VAULTS IN THIS LOCATION.

**TREE INVENTORY TABLE:**

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
138	ACER PALMATUM	JAPANESE MAPLE	4	6.7	PROTECT	NO
139	PRUNUS EMARGINATA	BITTER CHERRY	5	8.2	PROTECT	NO
140	ACER PALMATUM	JAPANESE MAPLE	6	9.5	PROTECT	NO
10855	CRATAEGUS MONOGYNA	COMMON HAWTHORN	12	17.9	REMOVE	NO
10935	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	13	19.3	PROTECT	NO
10940	KOELREUTERIA PANICULATA	GOLDEN RAIN TREE	12	17.3	PROTECT	NO

**NOTE TO REVIEWER:**

- CITY DESIGN TEAM WORKING ON PROPOSED STORM SYSTEM RELOCATION IN VICINITY OF PROPOSED GENERATOR SET. ALIGNMENT WILL BE ADDED AFTER 90% WHEN AVAILABLE. CB INLET PROTECTION TO BE INCLUDED FOR NEW STRUCTURES.
- DEWATERING DISCHARGE LOCATIONS NEED TO BE COORDINATED AND ADDED.



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 PLOTTED BY: D.Auriga, liscgg

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 MERCER ISLAND LAND USE SET  
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DESIGNED/DRAWN:  
 E. BRODAHL  
 PROJECT ENGINEER:  
 J. CHAE  
 DESIGN APPROVAL:  
 R. BROWNE  
 PROJECT ACCEPTANCE:  
 S. YILDIZ

SCALE:  
 AS NOTED  
 REFERENCE 1" = 10'

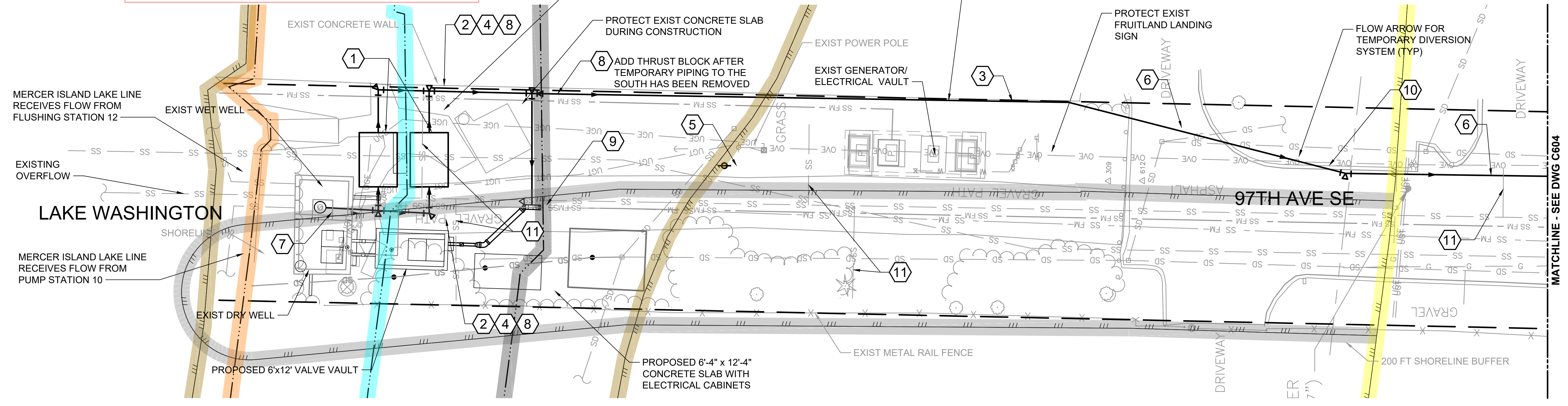
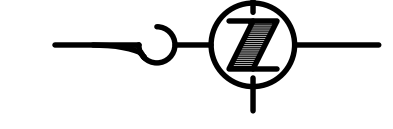


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**TESC PLAN AND NOTES**

DATE: 05/02/2019  
 PROJECT FILE NO:  
 DRAWING NO: **C602**  
 SHT NO / TOTAL REV NO: / 0



**THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.**



**NOTES:**

- FRUITLAND LANDING PARK TO BE CLOSED FOR THE DURATION OF CONSTRUCTION.
- COORDINATE WORK AND SEQUENCING WITH LS11 FORCE MAIN REHABILITATION AND EXTENSION.
- CONTRACTOR SHALL SCHEDULE A MEETING WITH PROJECT REPRESENTATIVE TO DISCUSS PROPOSED DIVERSION PUMPING PLAN PRIOR TO PREPARING THE DIVERSION SYSTEM SUBMITTAL.
- IN AN EFFORT TO MINIMIZE THE LENGTH OF TIME THAT THE LIFT STATION IS OFF LINE AND OPERATING ON DIVERSION PUMPING, ALL OF THE NEW MATERIALS AND EQUIPMENT MUST BE ON SITE, OR HAVE A CONFIRMED DELIVERY DATE, PRIOR TO INITIATING THE DIVERSION PUMPING OPERATION.
- ALL OF THE CONNECTIONS TO THE EXISTING SYSTEM INVOLVE POTENTIAL EXPOSURE TO RAW SEWAGE. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS ASSOCIATED WITH WORKING AROUND RAW SEWAGE, SEWAGE GAS, AND COMPLYING WITH ALL ASSOCIATED SAFETY REGULATIONS.
- EXISTING GRAVITY SEWER MAINS SHALL BE PROTECTED AND KEPT IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THIS PLAN.
- CONTRACTOR SHALL PROVIDE A LEVEL CONTROL SYSTEM, INTEGRAL TO EACH TEMPORARY DIVERSION PUMP WITH LEVEL SETTINGS SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE. CONTRACTOR SHALL PROVIDE SUBMITTAL AND OBTAIN ACCEPTANCE FROM PROJECT REPRESENTATIVE PRIOR TO INSTALLATION OF DIVERSION PUMPING SYSTEM.
- DURING DIVERSION OPERATIONS, CONTRACTOR SHALL PROVIDE TWO ABOVE-GRADE SILENCED SELF-PRIMING PUMPS, EACH CAPABLE OF PUMPING 540 GPM @ 35' OF TDH. THE PRIMARY PUMP SHALL BE ELECTRIC-DRIVE AND CONNECTED TO THE TEMPORARY POWER FOR THE SITE, THE OTHER SHALL BE CRITICALLY SILENCED DIESEL-DRIVE PUMP AS BACKUP. CONTRACTOR SHALL PROVIDE INTEGRATED LEVEL FLOAT SYSTEM TO CONTROL EACH PUMP, AND AN AUTO-DIALER. THE LEAD PUMP DRIVEN BY THE TEMP POWER SHALL PUMP NORMAL FLOWS. THE BACKUP DIESEL DRIVEN PUMP SHALL AUTOMATICALLY ACTIVATE IN THE EVENT THAT THE LEAD PUMP FAILS OR THE SEWAGE LEVEL RISES TO THE ALARM LEVEL. CONTRACTOR SHALL PROVIDE SUCTION PIPING, AND DISCHARGE PIPING MANIFOLDED TOGETHER FOR A SINGLE DISCHARGE CONNECTED TO THE DIVERSION PUMPING CONNECTION, THROUGHOUT THE TEMPORARY DIVERSION OPERATIONS, WHICH ARE ANTICIPATED TO LAST SEVERAL MONTHS.

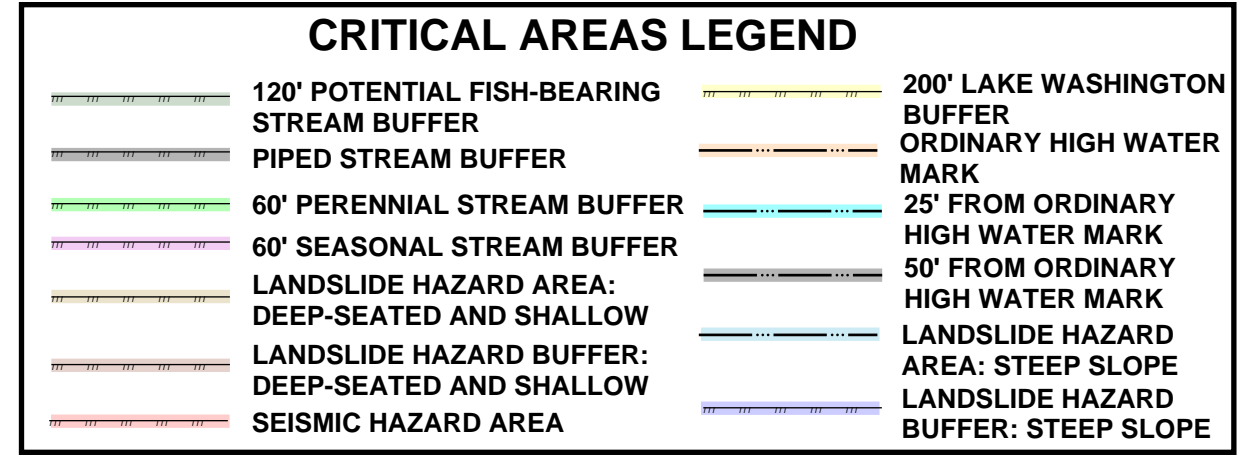
**DIVERSION SYSTEM CONSTRUCTION SEQUENCE:**

- NOTE: THIS IS A POSSIBLE SEQUENCE. FINAL SEQUENCE SHALL BE DEVELOPED BY CONTRACTOR, AND IS SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE.
- INSTALL TEMP. PUMPS, CONTROLS, POWER, VALVES, SUCTION AND DISCHARGE PIPING. CONNECT DISCHARGE PIPING TO EXISTING CITY SSMH R208G-26. CONTRACTOR SHALL COORDINATE WITH PSE AND BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER DURING CONSTRUCTION, FROM EXISTING POWER POLE. PROVIDE PUMPING EQUIPMENT COMPATIBLE WITH AVAILABLE POWER VOLTAGE, ETC. FROM PSE.
  - TEST TEMPORARY DIVERSION SYSTEM. OBTAIN AUTHORIZATION FROM PROJECT REPRESENTATIVE THAT DIVERSION SYSTEM IS ACCEPTABLE BEFORE REMOVING EXISTING STATION COMPONENTS AND AFTER 10 DAYS OF CONTINUOUS SUCCESSFUL DIVERSION OPERATION.
  - REHABILITATE EXISTING FORCE MAIN AND COMPLETE PRESSURE TESTING.
  - REROUTE DIVERSION PUMPS TO CONNECT TO UPSTREAM END OF REHABILITATED FORCE MAIN. REMOVE ALL TEMPORARY DIVERSION PIPING SOUTH OF CONNECTION TO REHABILITATED FORCE MAIN. SEE SUGGESTED CONSTRUCTION SEQUENCING ON C606 AND C607 FOR ADDITIONAL INFORMATION.
  - CLOSE ISOLATION VALVE ON PUMP SUCTION LINE IN DRY WELL. COORDINATE WITH PROJECT REPRESENTATIVE TO DEACTIVATE UPSTREAM FLUSHING STATIONS. PUMP EXIST WET WELL AS LOW AS POSSIBLE USING DIVERSION PUMP (SUPPLEMENTED BY VACTOR TRUCK AS NEEDED) AND INSTALL TEMPORARY DAM (SANDBAGS, ETC.) TO ACCESS SUCTION PIPING. INSTALL MECHANICAL PLUGS IN SUCTION LINES IN EXIST WET WELL.
  - DEMO EXIST DRY WELL EQUIPMENT, CLEAN AND SANDBLAST INTERIOR. REPLACE EXIST DRY WELL LID. REPAIR INTERIOR, ADD FILLETS AND COATINGS. CONVERT EXIST DRY WELL TO NEW WET WELL AND INSTALL PUMPS, LEVEL CONTROLS, AND ASSOCIATED APPURTENANCES.
  - TEST ALL FACILITIES WITH POTABLE WATER. SEWAGE WILL NOT BE ALLOWED TO FLOW INTO NEW WET WELL UNTIL ALL SYSTEMS HAVE BEEN THOROUGHLY TESTED AND ACCEPTED BY THE PROJECT REPRESENTATIVE.

- MOVE DIVERSION PUMP SUCTION PIPING TO NEW WET WELL. INSTALL TEMPORARY DIVERSION AND GRAVITY PIPING FOR EACH INCOMING PIPE IN EXIST WET WELL, AND MANIFOLD TOGETHER TO DISCHARGE INTO NEW WET WELL. ALTERNATIVELY, PUMP THROUGH COMPLETED NEW WET WELL, VALVE VAULT AND PERMANENT FORCE MAIN IF APPROVED FOR USE PRIOR TO CONVERTING EXIST WET WELL TO MH.
- CLEAN, WATER BLAST, AND REPAIR EXISTING WET WELL PER D601. FILL AND CHANNEL EXIST WET WELL AND INSTALL COATINGS AND NEW ACCESS LID. COMPLETE CONVERSION TO MH PER M601 AND M602.
- COORDINATE WITH PROJECT REPRESENTATIVE TO NOTIFY RESIDENTS OF SHUT-DOWN (SEE SHEET C604). DIVERT SEWAGE IN 8" GRAVITY AND INSTALL DROP CONNECTION IN EX. WET WELL.
- INSTALL ALL OTHER LIFT STATION IMPROVEMENTS.
- BEFORE BRINGING NEW FACILITIES ON LINE, OBTAIN PERMISSION FROM PROJECT REPRESENTATIVE.
- TEST NEW FACILITIES AND OBTAIN WRITTEN AUTHORIZATION FROM PROJECT REPRESENTATIVE THAT NEW FACILITIES ARE ACCEPTABLE FOR PERMANENT SERVICE AFTER 10 DAYS OF CONTINUOUS SUCCESSFUL OPERATION.
- REMOVE/ ABANDON TEMPORARY FACILITIES NOT ASSOCIATED WITH PERMANENT STATION.

**KEY NOTES:**

- REDUNDANT TEMPORARY DIVERSION PUMPS PLACED ON 4" THICK LAYER OF CSBC.
- MANIFOLD SUCTION AND DISCHARGE PIPING.
- 8" MINIMUM ID HDPE DR17 TEMPORARY DIVERSION PIPING. PIPE TO BE LAID ON SURFACE UNLESS OTHERWISE CALLED OUT.
- IF ANY PORTION OF ABOVE GROUND DIVERSION PIPING WILL BE OPERATED IN WINTER MONTHS, PROVIDE INSULATION AND HEAT TRACING TO PREVENT FREEZING.
- CONSTRUCTION POWER SERVICE (TEMPORARY).
- INSTALL TEMP. RAMPS FOR BYPASS PIPING AT DRIVEWAYS PER SPECIFICATIONS, MINIMUM 10' WIDE.
- 6" MINIMUM ID HDPE SUCTION PIPE TO BE INSTALLED USING EXISTING WET WELL ACCESS. REMOVE AND STORE EXISTING GAS TIGHT MH COVER. CONSTRUCT LID THAT WILL SEAL ON EXISTING MH FRAME TO MANAGE SEWER GAS AND ALLOW SUCTION PIPING TO BE INSTALLED IN EXIST WET WELL.
- WHERE THRUST RESTRAINTS SHOWN FOR ABOVE-GRADE TEMPORARY PIPING, STRAP PIPING TO ECOLOGY BLOCKS TO RESTRAIN. (TYP.)
- AFTER FORCE MAIN REHABILITATION, REROUTE DIVERTED SEWAGE TO UPSTREAM END OF REHABILITATED FORCE MAIN, OR ALTERNATIVELY BY CONNECTING TO DIVERSION PUMPING PORT IN VALVE VAULT WHEN AVAILABLE. ROUTE EAST-WEST SECTION OF DIVERSION PIPING BELOW GRADE (BY ROTATING TEE AND BEND AT CONNECTION POINTS) AND PROTECT PIPING AS NEEDED FOR SITE ACCESS. PROVIDE FLANGED HDPE CONNECTION WITH BACKUP RING TO DI BEND.
- ANCHOR FORCE MAIN AS NEEDED. PROTECT EXISTING IRRIGATION SYSTEM. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
- APPROX. LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).



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 PLOTTED BY: D.Aurig, liscoc

NO	REVISION DESCRIPTION	BY	APVD	DATE



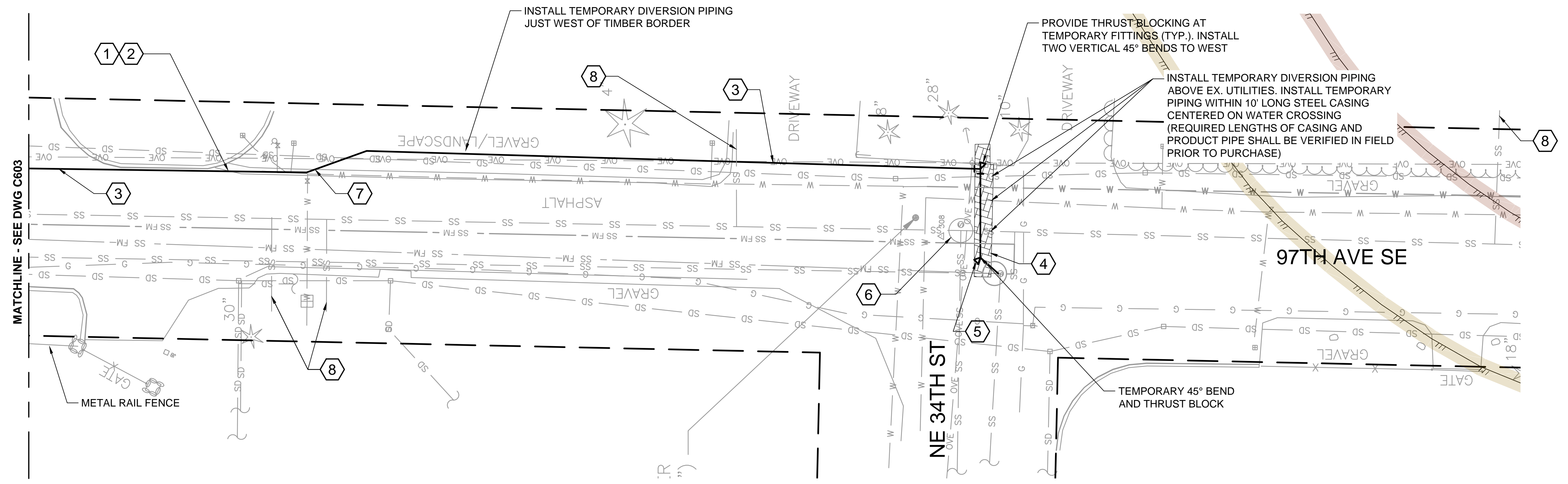
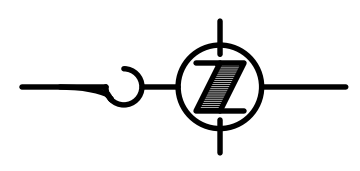
**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ  
 SCALE: AS NOTED  
 REFERENCE 1" = 0'  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20

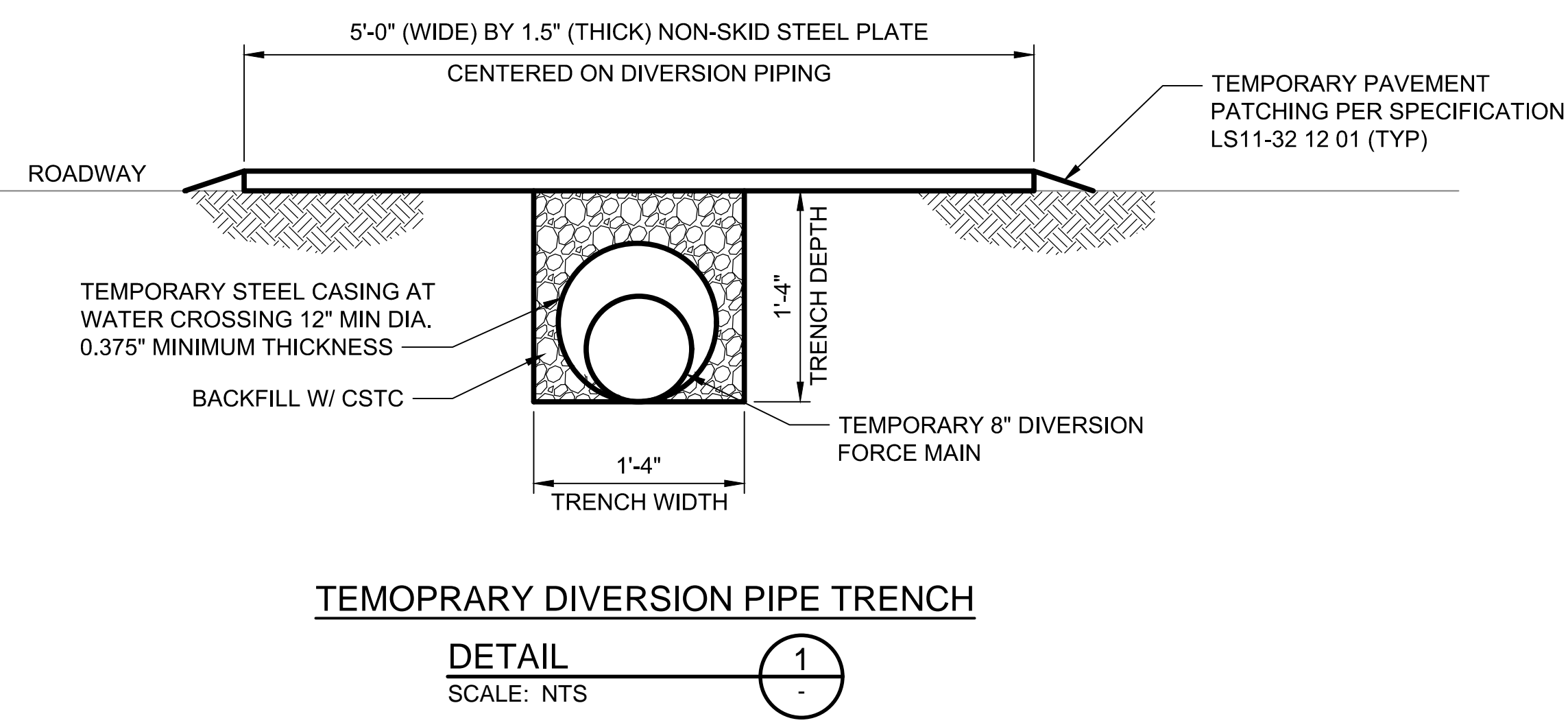


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**CONSTRUCTION STAGING AND**  
**DIVERSION PUMPING PLAN 1 of 2**

DATE: 05/02/2019  
 PROJECT FILE NO:  
 DRAWING NO: **C603**  
 SHT NO / TOTAL: /  
 REV NO: **0**



MATCHLINE - SEE DWG C603



**CRITICAL AREAS LEGEND**

120' POTENTIAL FISH-BEARING STREAM BUFFER	SEISMIC HAZARD AREA
60' PERENNIAL STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' SEASONAL STREAM BUFFER	ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

- KEY NOTES:**
- 8" MINIMUM ID HDPE TEMPORARY DIVERSION PIPING. PIPE TO BE LAID ON SURFACE UNLESS OTHERWISE CALLED OUT.
  - IF ANY PORTION OF ABOVE GROUND DIVERSION PIPING WILL BE OPERATED IN WINTER MONTHS, PROVIDE INSULATION AND HEAT TRACING SUITABLE FOR HDPE PIPE TO PREVENT FREEZING.
  - INSTALL TEMP. RAMPS FOR BYPASS PIPING AT DRIVEWAYS PER SPECIFICATIONS, MINIMUM 10' WIDE.
  - INSTALL TEMPORARY DIVERSION PIPE BELOW GRADE WHEN MAKING CONNECTION TO EXISTING MH AND PROVIDE STEEL PLATES PER DETAIL 1 THIS SHEET. CONNECT TO EX. SSMH R208G-26" BELOW GRADE (SEE SHEET C607), CORE DRILL MH BELOW CONE. AFTER DIVERSION WORK IS COMPLETE, REMOVE PIPE, REPAIR MH, AND PROVIDE PERMANENT TRENCH PATCH.
  - WHERE THRUST RESTRAINTS SHOWN FOR ABOVE-GRADE TEMPORARY PIPING, STRAP PIPING TO ECOLOGY BLOCKS TO RESTRAIN. (TYP.)
  - PRIOR TO INSTALLATION OF NEW DROP CONNECTION IN EXISTING LS11 WET WELL, PROVIDE SHUT DOWN NOTICE TO DOWNSTREAM PROPERTY OWNERS, PER SPECIFICATIONS. INSTALL TEMPORARY DIVERSION PUMPING TO ROUTE SEWAGE TO ADJACENT MH TO SOUTHWEST. INSTALL MECHANICAL PLUG IN 8" SEWER MAIN TO NORTH. LIMIT THIS OPERATION TO 8 HOURS IN A SINGLE DAY (TUESDAY, WEDNESDAY, OR THURSDAY ONLY).
  - ANCHOR FORCE MAIN AS NEEDED. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
  - APPROXIMATE LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).



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 PLOTTED BY: D.Auriga, liscgc

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 MERCER ISLAND LAND USE SET  
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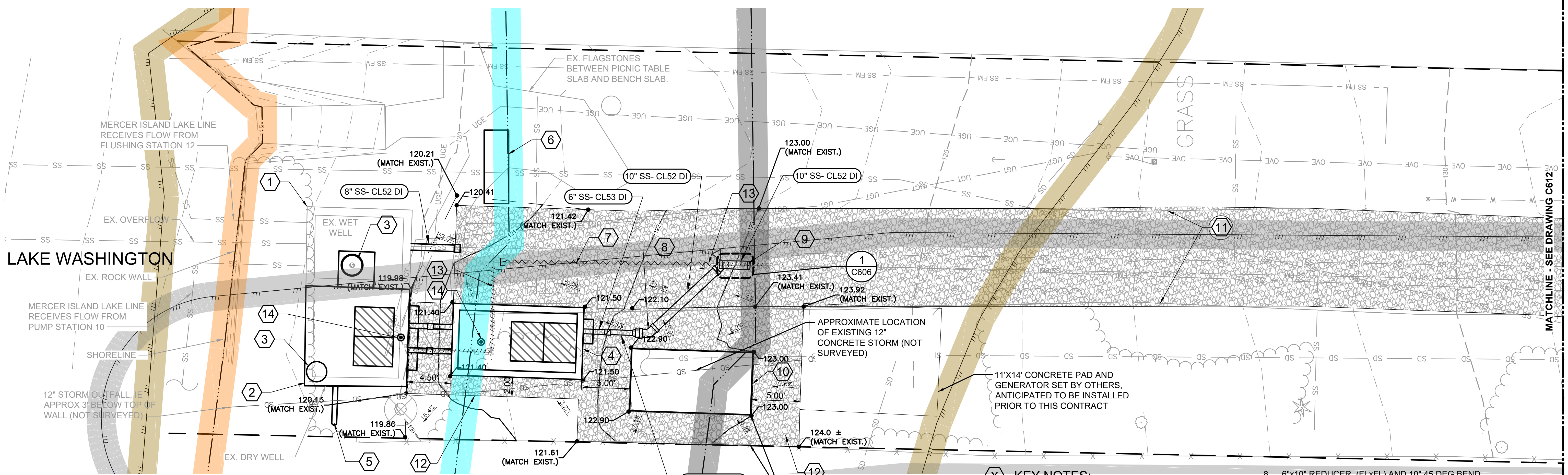
DESIGNED/DRAWN: E. BRODAHL  
 SCALE: AS NOTED  
 PROJECT ENGINEER: J. CHAE  
 REFERENCE: 1" = 0'  
 DESIGN APPROVAL: R. BROWNE  
 FACILITY NUMBER: N/A  
 PROJECT ACCEPTANCE: S. YILDIZ  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**CONSTRUCTION STAGING AND**  
**DIVERSION PUMPING PLAN 2 of 2**

DATE: 05/02/2019  
 PROJECT FILE NO:  
 DRAWING NO: **C604**  
 SHT NO / TOTAL: /  
 REV NO: **0**

CRITICAL AREAS LEGEND	
	120' POTENTIAL FISH-BEARING STREAM BUFFER
	PIPED STREAM BUFFER
	60' PERENNIAL STREAM BUFFER
	60' SEASONAL STREAM BUFFER
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
	SEISMIC HAZARD AREA
	200' LAKE WASHINGTON BUFFER
	ORDINARY HIGH WATER MARK
	25' FROM ORDINARY HIGH WATER MARK
	50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



- NOTES:**
1. NEW FORCE MAIN SHALL BE CERAMIC EPOXY-LINED DI. RESTRAIN ALL BURIED DI PIPE JOINTS AND MJ FITTINGS UNLESS OTHERWISE NOTED.

**NOTE TO REVIEWER:**  
 CITY DESIGN TEAM WORKING ON PROPOSED STORM SYSTEM RELOCATION IN VICINITY OF PROPOSED GENERATOR SET. ALIGNMENT WILL BE ADDED AFTER 90% WHEN AVAILABLE.

**THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.**

- KEY NOTES:**
1. CONVERT EXISTING WET WELL TO MAINTENANCE HOLE (MH), PER SHEETS M601 & M602.
  2. CONVERT EXISTING DRY WELL TO NEW WET WELL, INSTALL NEW ACCESS LID AND HATCH, PER SHEETS M602 AND S601.
  3. INSTALL 24" MH ACCESS LID PER DETAIL 1 SHEET C023.
  4. PROPOSED VALVE VAULT, PER SHEETS M601 & M602.
  5. INSTALL NEW AIR VENT PER SHEETS M601 & M602.
  6. INSTALL NEW CONCRETE SLAB FOR PARK BENCH HERE, MATCH DIMENSIONS OF EX. CONCRETE SLAB. RELOCATE EX. FLAGSTONE AROUND SLAB FOR BENCH ACCESS, AS SHOWN ON SHEET L601 AND AS DIRECTED BY THE PROJECT REPRESENTATIVE. STAKE LOCATION FOR APPROVAL.
  7. ABANDON IN-PLACE EXISTING ASBESTOS CEMENT FORCEMAIN AS INDICATED. FILL WITH CDF AND CAP/ PLUG CUT ENDS.
  8. 6"x10" REDUCER (FLxFL) AND 10" 45 DEG BEND (FLxMJ).
  9. CONNECT TO REHABILITATED 10"Ø ASBESTOS CEMENT FORCE MAIN WITH 10" 45 DEG BEND (MJ) WITH THRUST BLOCKING AS SHOWN ON SHEET C606.
  10. CONCRETE SLAB FOR ELECTRICAL/ CONTROL CABINET PER ELECTRICAL DRAWINGS AND SHEET S602.
  11. RESTORE 10' WIDTH OF EX. GRAVEL FROM PAVEMENT AT PARK ENTRANCE TO NORTHERN END OF ACCESS ROAD WITH TYPE R GRAVEL AS SPECIFIED IN SECTION 31 05 00.
  12. INSTALL TYPE R GRAVEL AS SPECIFIED IN SECTION 31 05 00. TO LIMITS SHOWN AROUND FACILITIES.
  13. REMOVE EXISTING 10" ASBESTOS CEMENT FORCE MAIN TO CAP.
  14. INSTALL DAVIT SLEEVE PER SHEET S601.



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 PLOTTED BY: D.Aurig, liscgc

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**PRELIMINARY ISSUE DRAWING**  
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**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN:  
E. BRODAHL  
 PROJECT ENGINEER:  
J. CHAE  
 DESIGN APPROVAL:  
R. BROWNE  
 PROJECT ACCEPTANCE:  
S. YILDIZ

SCALE:  
AS NOTED  
 REFERENCE 1" = 10'  
 FACILITY NUMBER:  
N/A  
 CONTRACT NO:  
C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**FINAL SITE PLAN**

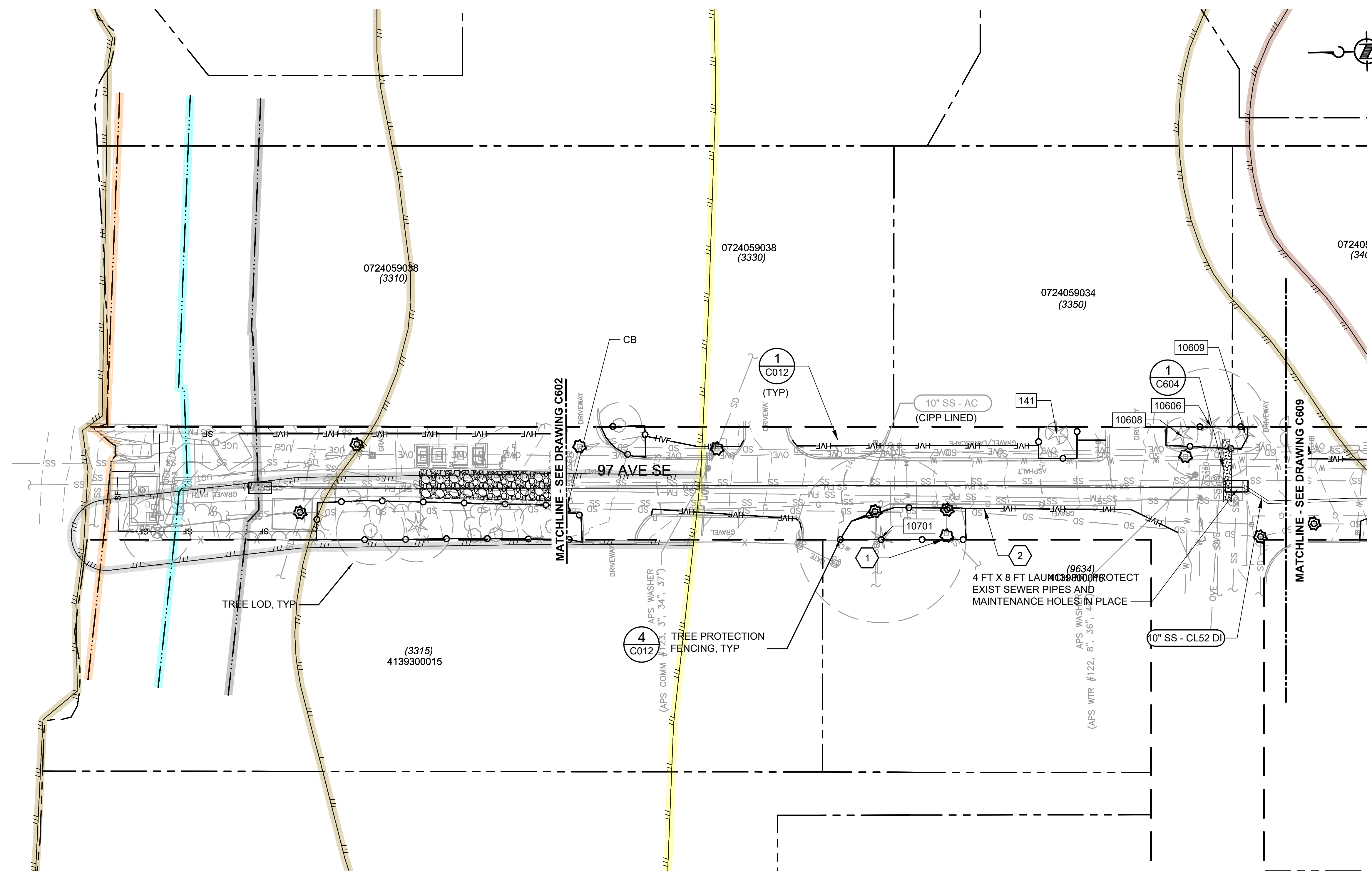
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SHT NO / TOTAL	REV NO:	0

**NOTES:**

- SEE DRAWING C612 FOR STANDARD SITE PREPARATION NOTES AND DETAILS. REFER TO DRAWINGS G004 & G005 FOR MATERIAL SYMBOLS.
- PROTECT EXISTING TREES EXCEPT WHERE INDICATED TO BE REMOVED.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM PROJECT REPRESENTATIVE FOR ANY TREE TRIMMING OR REMOVAL OF TREES NOT SHOWN AS BEING REMOVED.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
- UNLESS OTHERWISE SHOWN, CONSTRUCTION LIMITED TO WITHIN ROW.
- REMOVE AND STORE EXISTING SIGNS WITHIN CONTRACTOR LIMITS OF DISTURBANCE AS NEEDED.
- THE PROPOSED FORCE MAIN AND ASSOCIATED STRUCTURE IS SHOWN SCREENED BACK FOR REFERENCE. SEE C610 AND C611 FOR PIPE WORK.
- USE COIR WATTLE AT DRIVEWAYS AND SILT FENCES AT EXCAVATION FRONTS AS NEEDED.
- SEE SHEETS C602, C609 FOR ADDITIONAL TREES TO PROTECT.
- SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
- TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

**# KEY NOTES:**

- STORM DRAIN INLET PROTECTION, TYPICAL. REFER TO DETAIL 2/C012.
- INSTALL HVF OR TREE PROTECTION FENCING AT EDGE OF PAVEMENT, TYPICAL.



**TREE INVENTORY TABLE:**

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
141	TSUGA MERTENSIANA	MOUNTAIN HEMLOCK	4	6.0	PROTECT	NO
10606	CEDRUS DEODARA	DEODAR CEDAR	20	29.9	PROTECT	NO
10608	CEDRUS DEODARA	DEODAR CEDAR	6	9.0	PROTECT	NO
10609	SEQUIOIDENDRON GIGANTEUM	WEeping REDWOOD	7	10.1	PROTECT	NO
10701	THUJA PLICATA	WESTERN REDCEDAR	30	30.0	PROTECT	NO

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

**CRITICAL AREAS LEGEND**

	120' POTENTIAL FISH-BEARING STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	PIPED STREAM BUFFER		ORDINARY HIGH WATER MARK
	60' PERENNIAL STREAM BUFFER		25' FROM ORDINARY HIGH WATER MARK
	60' SEASONAL STREAM BUFFER		50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD BUFFER: STEEP SLOPE
	SEISMIC HAZARD AREA		



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PLOT BY: D.Aurig, lsgdc

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MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN  
SITE PREPARATION  
STA 0+00 TO STA 3+64**

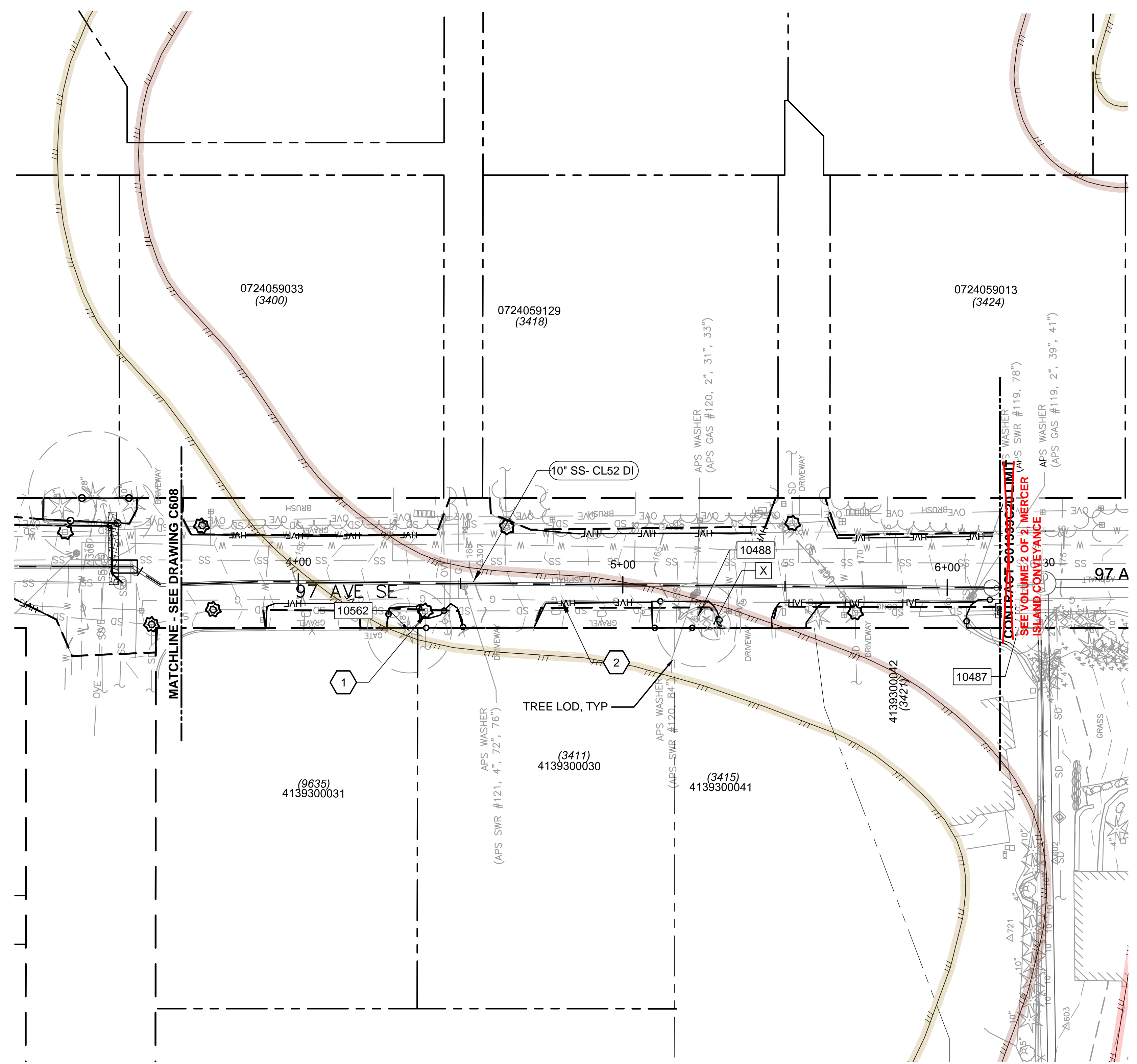
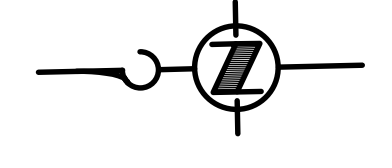
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SHT NO / TOTAL	REV NO.

**NOTES:**

1. SEE DRAWING C612 FOR STANDARD SITE PREPARATION NOTES AND DETAILS. REFER TO DRAWINGS G004 & G005 FOR MATERIAL SYMBOLS.
2. PROTECT EXISTING TREES EXCEPT WHERE INDICATED TO BE REMOVED.
3. CONTRACTOR SHALL OBTAIN APPROVAL FROM PROJECT REPRESENTATIVE FOR ANY TREE TRIMMING OR REMOVAL OF TREES NOT SHOWN AS BEING REMOVED.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
5. UNLESS OTHERWISE SHOWN, CONSTRUCTION LIMITED TO WITHIN ROW.
6. REMOVE AND STORE EXISTING SIGNS WITHIN CONTRACTOR LIMITS OF DISTURBANCE AS NEEDED.
7. THE PROPOSED FORCE MAIN AND ASSOCIATED STRUCTURE IS SHOWN SCREENED BACK FOR REFERENCE. SEE C610 AND C611 FOR PIPE WORK.
8. USE COIR WATTLE AT DRIVEWAYS AND SILT FENCES AT EXCAVATION FRONTS AS NEEDED.
9. SEE SHEETS C602, C608 FOR ADDITIONAL TREES TO PROTECT.
10. SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
11. TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

**# KEY NOTES:**

1. STORM DRAIN INLET PROTECTION, TYPICAL. REFER TO DETAIL 2/C012.
2. INSTALL HVF OR TREE PROTECTION FENCING AT EDGE OF PAVEMENT.



TREE INVENTORY TABLE:

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
10487	PRUNUS SERRULATA	FLOWERING CHERRY	8	11.6	PROTECT	NO
10488	CEDRUS DEODARA	DEODAR CEDAR	13	20.0	PROTECT	NO
10562	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	13	20.2	PROTECT	NO
X	CHAMAECYPARIS LAWSONIANA	PORT ORFORD CEDAR	5	8	PROTECT	NO

	120' POTENTIAL FISH-BEARING STREAM BUFFER		SEISMIC HAZARD AREA
	60' PERENNIAL STREAM BUFFER		200' LAKE WASHINGTON BUFFER
	60' SEASONAL STREAM BUFFER		ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW		LANDSLIDE HAZARD BUFFER: STEEP SLOPE



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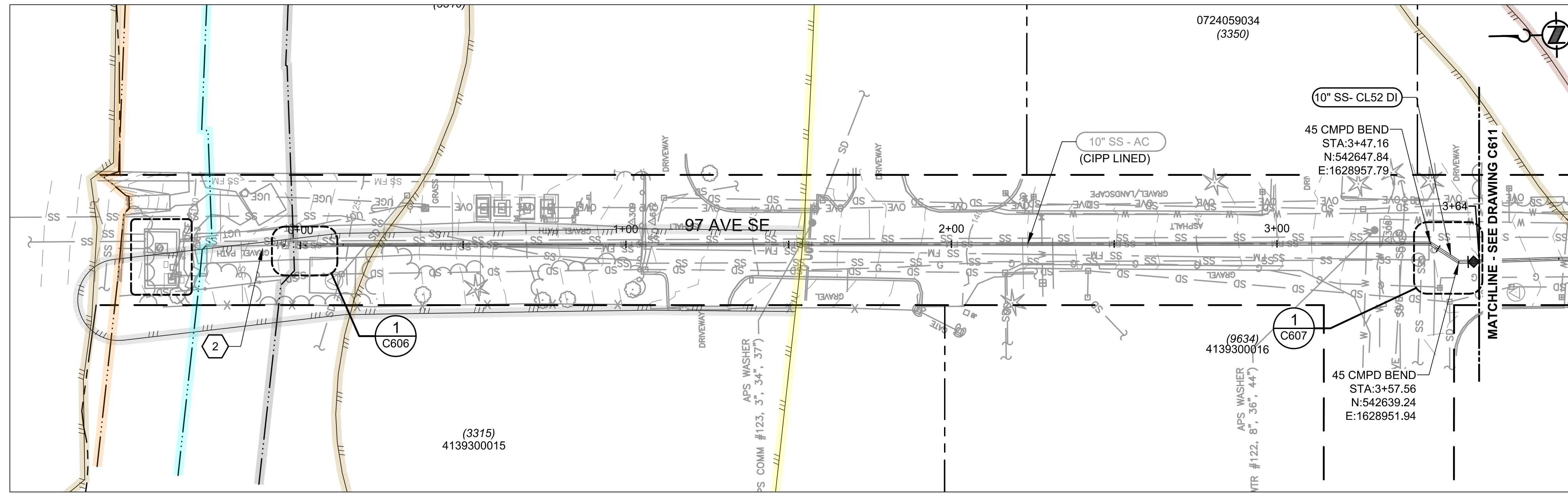
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 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
 REFERENCE 1" = 40'  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20

DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN**  
**SITE PREPARATION**  
**STA 3+64 TO STA 6+16**

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**NOTES:**

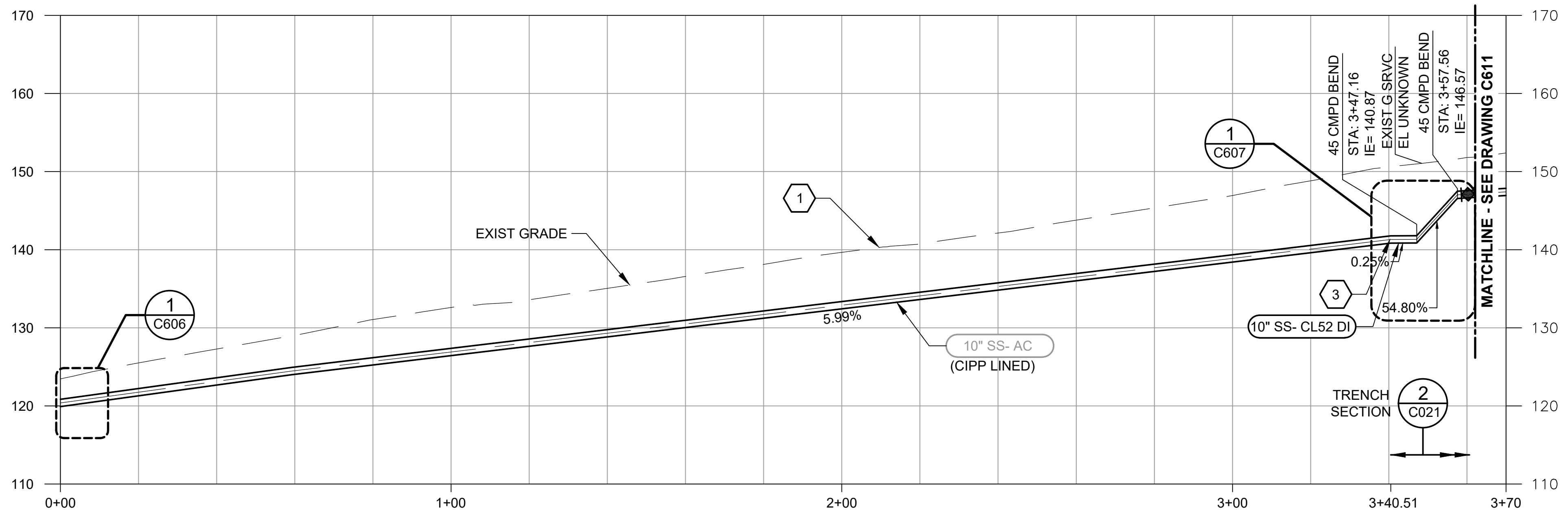
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
- 10-INCH SSFM WILL BE CL 52 DI UNLESS OTHERWISE NOTED. THE PIPELINE SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
- THE PROFILE OF THE EXISTING FORCE MAIN IS INFERRED FROM AS-BUILT INFORMATION. THE CONTRACTOR SHALL POTHOLE TO CONFIRM THE INSTALLED LOCATION.
- FOR TEMPORARY SEWER DIVERSION SYSTEM REFER TO DRAWINGS C603 AND C604.

**# KEY NOTES:**

- EXISTING UTILITIES CROSSING THE EXISTING 10-INCH SSFM HAVE NOT BEEN SHOWN AS THIS IS A REHABILITATION OF AN EXISTING MAIN AND HAVE NOT BEEN FIELD LOCATED.
- THE EXISTING AC MAIN IS TO BE ABANDONED IN PLACE AND GROUT FILLED NORTH OF THE NEW PIPING.
- CONTRACTOR TO SITE VERIFY THE EXISTING 10-INCH AC SSFM AT THE PROPOSED CONNECTION POINT TO CONFIRM THE ELEVATION PRIOR TO PROCURING PIPE MATERIALS AND PROVIDE AN AS-BUILT INFORMATION REFERENCE TWO DIFFERENT ELEVATIONS. THE DEEPEST PROFILE AND CONNECTION DETAIL HAS BEEN SHOWN.

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

**PLAN**  
SCALE: 1" = 20'



**PROFILE**  
SCALE: HORIZ 1" = 20'  
VERT 1" = 10'

CRITICAL AREAS LEGEND	
120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
PIPED STREAM BUFFER	ORDINARY HIGH WATER MARK
60' PERENNIAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD BUFFER: STEEP SLOPE
SEISMIC HAZARD AREA	



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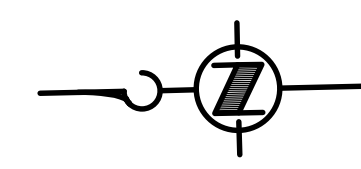
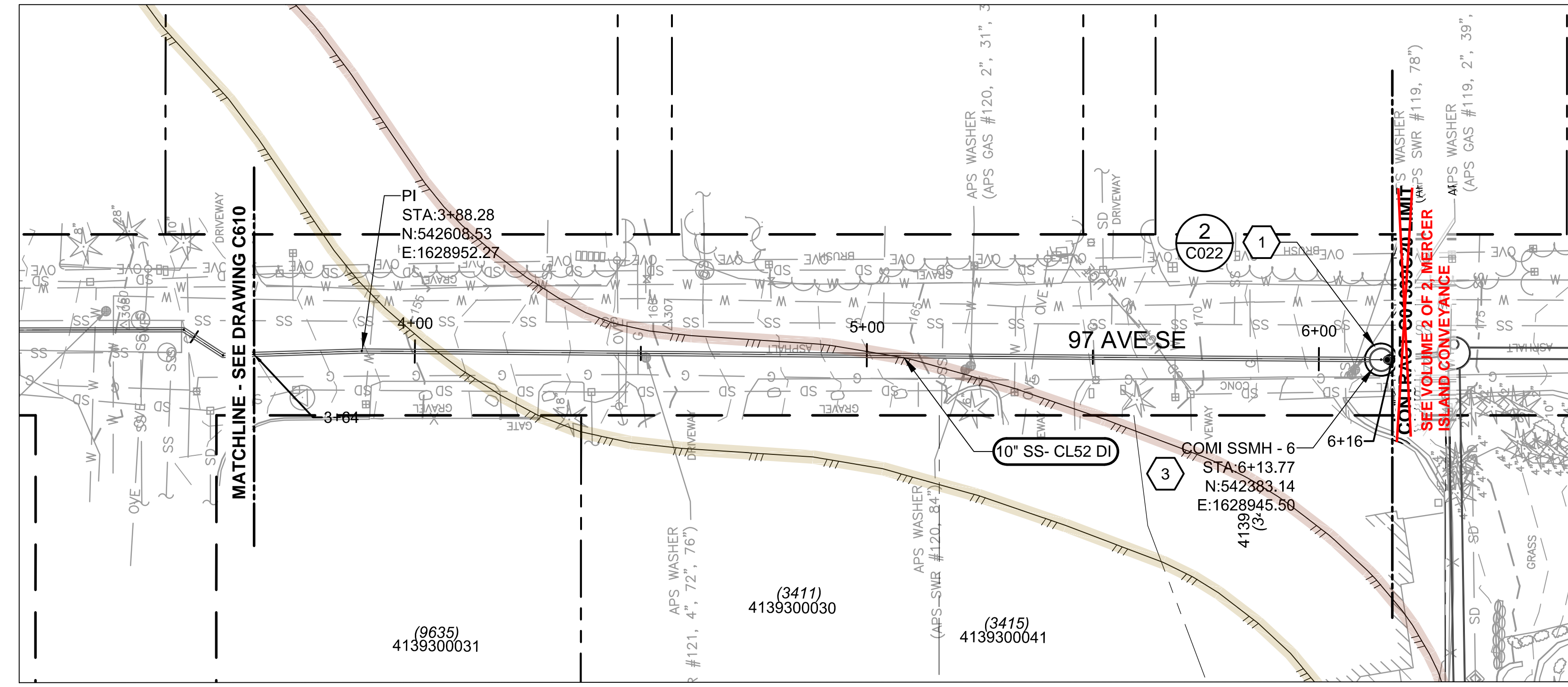
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 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
 REFERENCE 1"  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN**  
**PLAN AND PROFILE**  
**STA 0+00 TO STA 3+64**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>C610</b>	
SHT NO / TOTAL	REV NO:

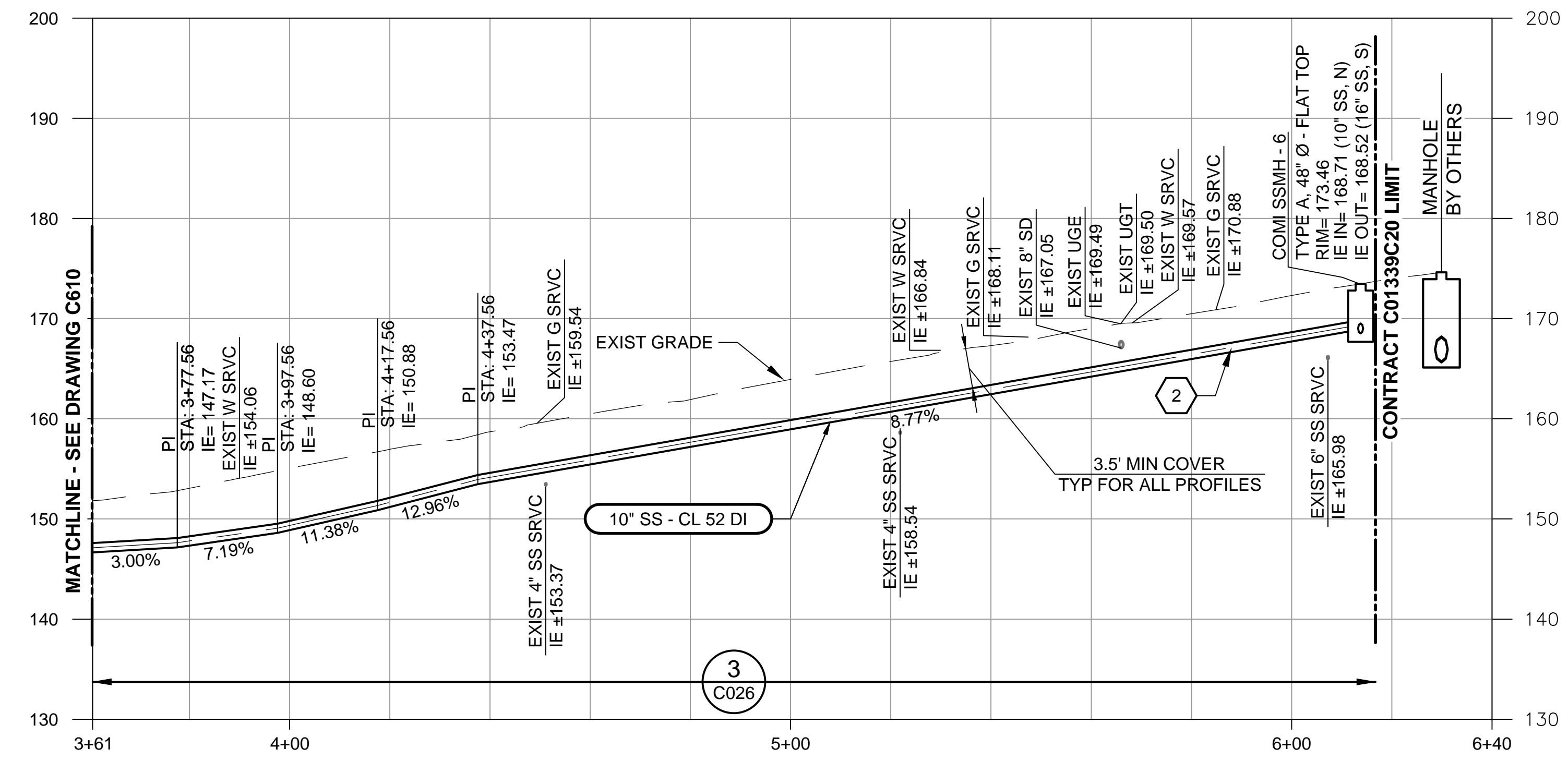


NOTES:

- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
- DEFLECT FM AS NECESSARY TO 80% OF MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.
- 10-INCH SSFM WILL BE CL 52 DI UNLESS OTHERWISE NOTED. THE PIPELINE SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.

KEY NOTES:

- CONNECTION OF THE GRAVITY PIPE TO THE NEW COMI SSMH-6 WILL BE MADE BY CONTRACT C01340C20.
- PROVIDE A MINIMUM OF 20 LF OF DI EPOXY LINED PIPE UPSTREAM FROM COMI SSMH-6.
- FOR FLEXIBILITY, PROVIDE TWO JOINTS, ONE 2 FT AND THE SECOND 7 FT UPSTREAM FROM THE MH. THE JOINTS ARE TO BE THE SAME RESTRAINED JOINTS USED FOR THE NEW DI PIPE.



THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND	
120' POTENTIAL FISH-BEARING STREAM BUFFER	SEISMIC HAZARD AREA
60' PERENNIAL STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' SEASONAL STREAM BUFFER	ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



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PLOT BY: D.Aurigo

NO	REVISION DESCRIPTION	BY	APVD	DATE



PRELIMINARY ISSUE DRAWING  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
REFERENCE 1"  
FACILITY NUMBER: N/A  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN  
PLAN AND PROFILE  
STA 3+64 TO STA 6+16**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C611</b>
SHT NO / TOTAL	REV NO:

**NOTES:**

- SEE DETAIL 7/C051 FOR STANDARD PAVEMENT AND RESTORATION DETAILS.
- REPAIR ANY IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR TO DEMONSTRATE TO PROJECT REPRESENTATIVE THAT SYSTEM HAS BEEN REPAIRED TO EXISTING CONDITION.
- RESTORE ROADWAY PAVEMENTS, CHANNELIZATIONS, STRIPING, AND ROADWAY MARKERS PER CITY OF MERCER ISLAND REQUIREMENTS.
- REPROVIDE ANY MAILBOXES REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. REMOVE TEMPORARY MAILBOXES. NEW POSTS TO BE USED IF ORIGINAL POSTS ARE DAMAGED DURING REMOVAL.
- REPROVIDE ANY SIGNS REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. NEW POSTS TO BE USED IF ORIGINAL POSTS DAMAGED DURING REMOVAL.
- NOT USED
- CONTRACTOR SHALL REPLACE UNANTICIPATED LANDSCAPE IMPACTS TO MATCH EXISTING CONDITIONS.
- FOR EXTENTS OF FULL DEPTH TRENCH PAVEMENT REPLACEMENT SEE PLAN AND PROFILE DRAWINGS AND TRENCH SECTION DETAILS.
- FOR TEMPORARY DIVERSION PIPING RESTORATION WITHIN FRUITLAND LANDING REFER TO C603.

**# KEY NOTES:**

- SAW CUT PAVEMENT AT ROW. SEE DETAIL 5/C051.
- SAW CUT EXISTING EDGE OF PAVEMENT AT LOCATIONS INDICATED. SEE DETAIL 6/C051.
- REFER TO DETAIL 7/C051 FOR FULL PAVEMENT RESTORATION DETAIL.

CRITICAL AREAS LEGEND	
	120' POTENTIAL FISH-BEARING STREAM BUFFER
	60' PERENNIAL STREAM BUFFER
	60' SEASONAL STREAM BUFFER
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
	SEISMIC HAZARD AREA
	200' LAKE WASHINGTON BUFFER
	ORDINARY HIGH WATER MARK
	25' FROM ORDINARY HIGH WATER MARK
	50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: STEEP SLOPE

**THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.**



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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY  
 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
 REFERENCE 1" = 0'  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN  
 SITE RESTORATION  
 STA 00+00 TO 3+64**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	DRAWING NO: <b>C612</b>
SHT NO / TOTAL	REV NO:

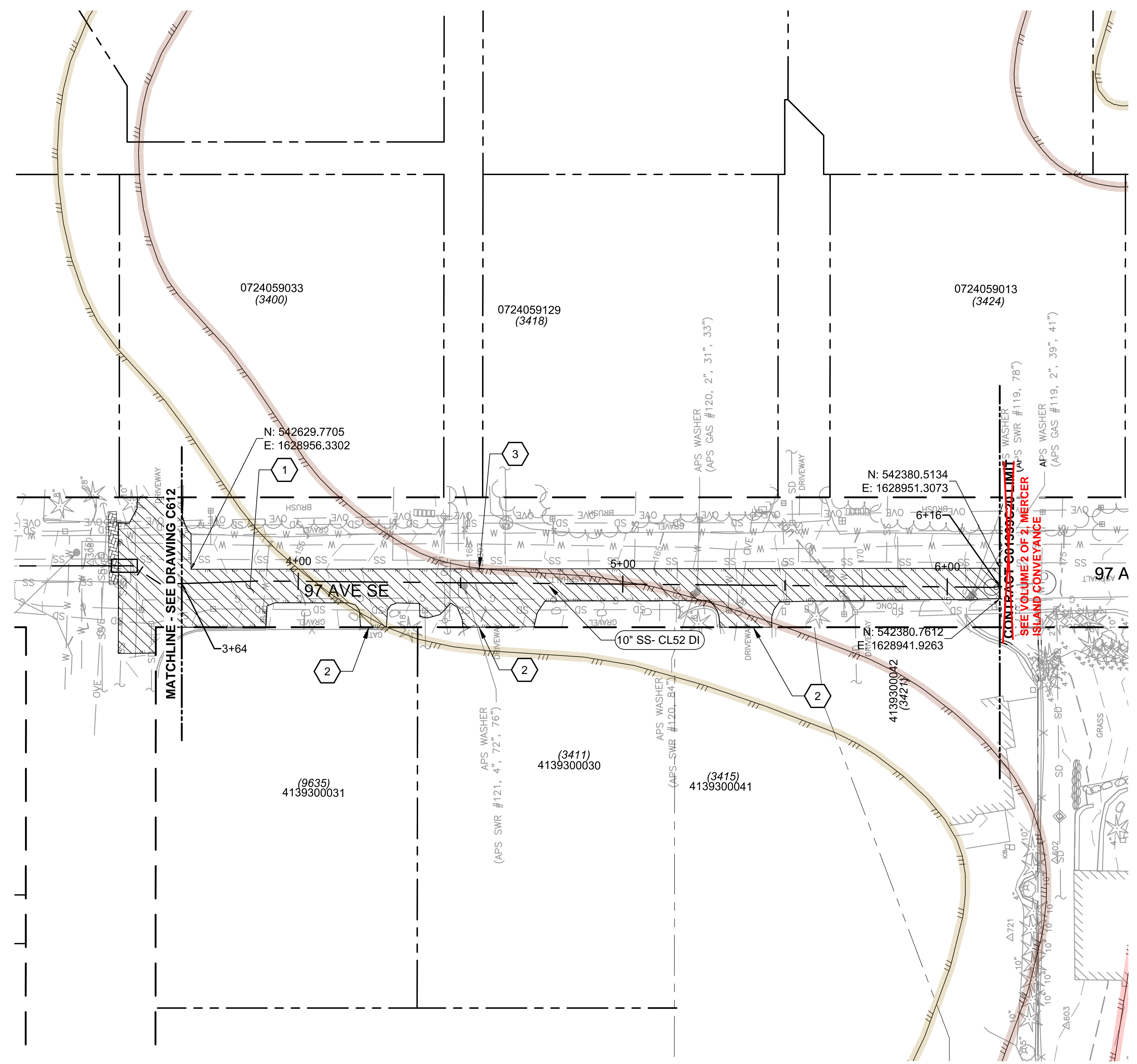


**NOTES:**

1. SEE DETAIL 7/C051 FOR STANDARD PAVEMENT AND RESTORATION DETAILS.
2. REPAIR ANY IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR TO DEMONSTRATE TO PROJECT REPRESENTATIVE THAT SYSTEM HAS BEEN REPAIRED TO EXISTING CONDITION.
3. RESTORE ROADWAY PAVEMENTS, CHANNELIZATIONS, STRIPING, AND ROADWAY MARKERS PER CITY OF MERCER ISLAND REQUIREMENTS.
4. REPROVIDE ANY MAILBOXES REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. REMOVE TEMPORARY MAILBOXES. NEW POSTS TO BE USED IF ORIGINAL POSTS ARE DAMAGED DURING REMOVAL.
5. REPROVIDE ANY SIGNS REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. NEW POSTS TO BE USED IF ORIGINAL DAMAGED DURING REMOVAL.
6. NOT USED
7. CONTRACTOR SHALL REPLACE UNANTICIPATED LANDSCAPE IMPACTS TO MATCH EXISTING CONDITIONS.
8. FOR EXTENTS OF FULL DEPTH TRENCH PAVEMENT REPLACEMENT SEE PLAN AND PROFILE DRAWINGS AND TRENCH SECTION DETAILS.

**# KEY NOTES:**

1. PAVEMENT OVERLAY WIDTH (EXCLUDING DRIVEWAYS) VARIES. AVERAGE WIDTH APPROXIMATELY 10.5 FT.
2. SAW CUT PAVEMENT AT ROW. SEE DETAIL 5/C051.
3. SAW CUT EXISTING EDGE OF PAVEMENT AT LOCATIONS INDICATED. SEE DETAIL 6/C051.



CRITICAL AREAS LEGEND	
	120' POTENTIAL FISH-BEARING STREAM BUFFER
	60' PERENNIAL STREAM BUFFER
	60' SEASONAL STREAM BUFFER
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
	SEISMIC HAZARD AREA
	200' LAKE WASHINGTON BUFFER
	ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



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 PLOTTED BY: D.Auriga

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

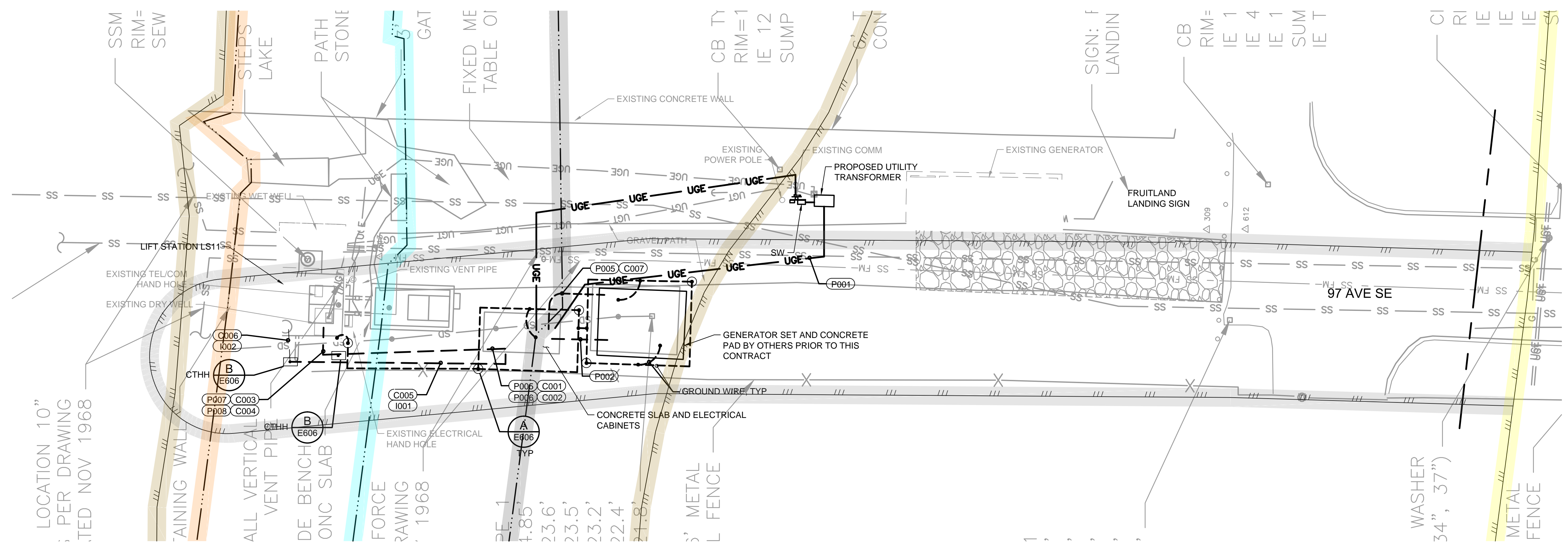
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 PROJECT ENGINEER: J. CHAE  
 DESIGN APPROVAL: R. BROWNE  
 PROJECT ACCEPTANCE: S. YILDIZ

SCALE: AS NOTED  
 REFERENCE: 1" = 0'  
 FACILITY NUMBER: N/A  
 CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
 INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11 FORCE MAIN  
 SITE RESTORATION  
 STA 3+64 TO STA 6+16**

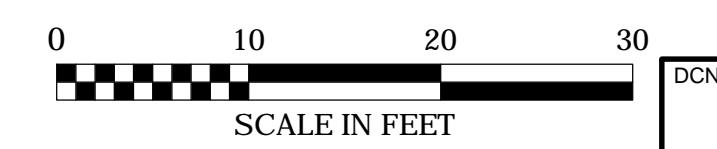
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SHT NO / TOTAL	REV NO:



**ELECTRICAL SITE PLAN**  
SCALE: 1" = 10'-0"

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND	
120' POTENTIAL FISH-BEARING STREAM BUFFER	200' LAKE WASHINGTON BUFFER
60' PERENNIAL STREAM BUFFER	ORDINARY HIGH WATER MARK
60' SEASONAL STREAM BUFFER	25' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW	50' FROM ORDINARY HIGH WATER MARK
LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW	LANDSLIDE HAZARD AREA: STEEP SLOPE
SEISMIC HAZARD AREA	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



BORDER FILE EDITION: KCVTD-2012-Dstze-TB-Border  
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PLOT BY: D.Auriga, lsgdc

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

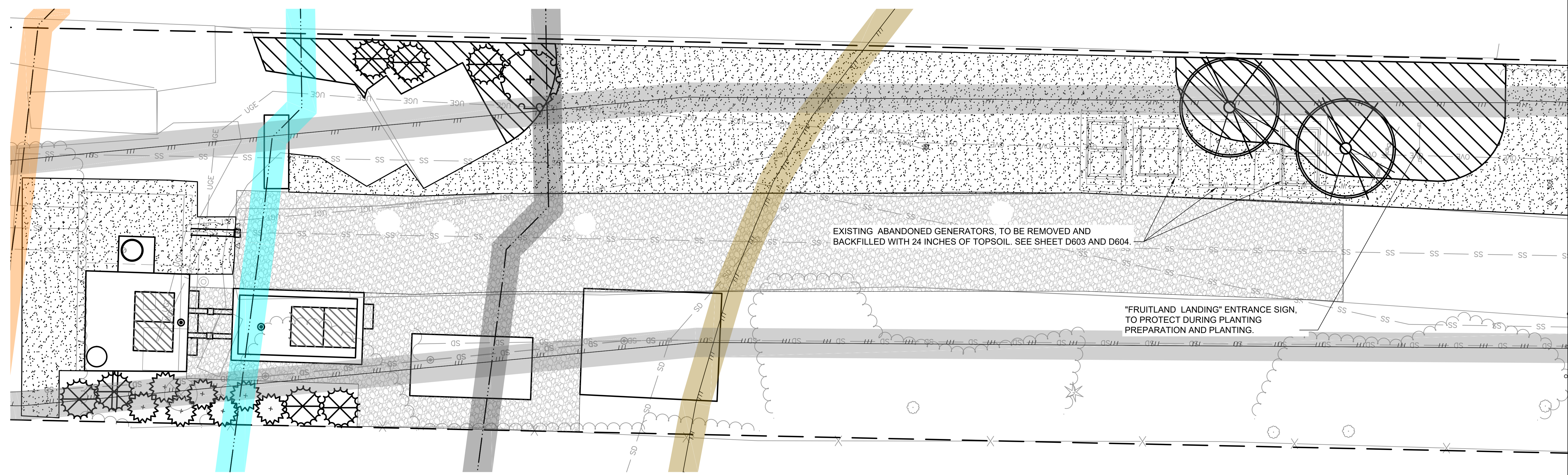
DESIGNED/DRAWN: MOLINARI/KOP  
SCALE: AS NOTED  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ  
FACILITY NUMBER: N/A  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI  
INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**ELECTRICAL SITE PLAN**

DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: <b>E602</b>
SHT NO / TOTAL: 22 /
REV NO: <b>0</b>

CRITICAL AREAS LEGEND	
	120' POTENTIAL FISH-BEARING STREAM BUFFER
	PIPED STREAM BUFFER
	60' PERENNIAL STREAM BUFFER
	60' SEASONAL STREAM BUFFER
	LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
	LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
	SEISMIC HAZARD AREA
	200' LAKE WASHINGTON BUFFER
	ORDINARY HIGH WATER MARK
	25' FROM ORDINARY HIGH WATER MARK
	50' FROM ORDINARY HIGH WATER MARK
	LANDSLIDE HAZARD AREA: STEEP SLOPE
	LANDSLIDE HAZARD BUFFER: STEEP SLOPE



**LEGEND:**

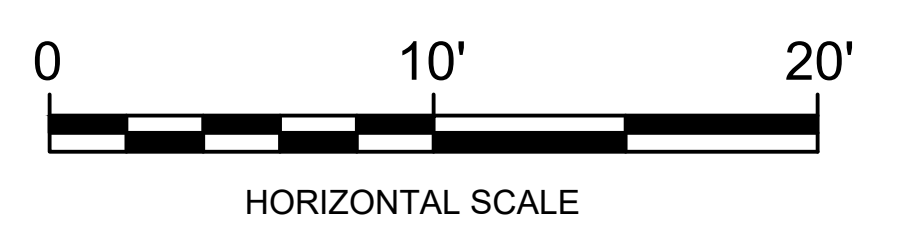
	STREETSPIRE OAK		WESTERN SWORDFERN
	VINE MAPLE		GRAVEL (SHOWN FOR REFERENCE, SEE DWG C605)
	MAHONIA 'WINTER SUN'		LAWN SEED
	EVERGREEN HUCKLEBERRY		

**NOTE TO REVIEWER:**  
CURRENT PROPOSED TREE LOCATIONS ASSUME THAT THE OVERHEAD POWER WILL BE UNDER-GROUNDED PRIOR TO THE INSTALLATION OF THE TREES. IF THIS IS NOT THE CASE THEN THE TREE LOCATION/SELECTION WILL NEED TO BE REASSESSED.

**THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.**

**NOTES:**

- SEE DWG L102 FOR PLANTING NOTES, SCHEDULE AND PLANTING DETAILS.
- LAWN SEEDING EXTEND BEYOND LIMITS OF VIEW PORT. TOTAL AREA OF LAWN SEEDING IS APPROXIMATELY 1600 SQ. FT.



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PLOT BY: D.Auriga, lsbac

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**PRELIMINARY ISSUE DRAWING**  
INFORMATION ONLY  
**DRAFT**  
MERCER ISLAND LAND USE SET  
SEPTEMBER 2019

DESIGNED/DRAWN: L. FRENCH  
PROJECT ENGINEER: J. CHAE  
DESIGN APPROVAL: R. BROWNE  
PROJECT ACCEPTANCE: S. YILDIZ

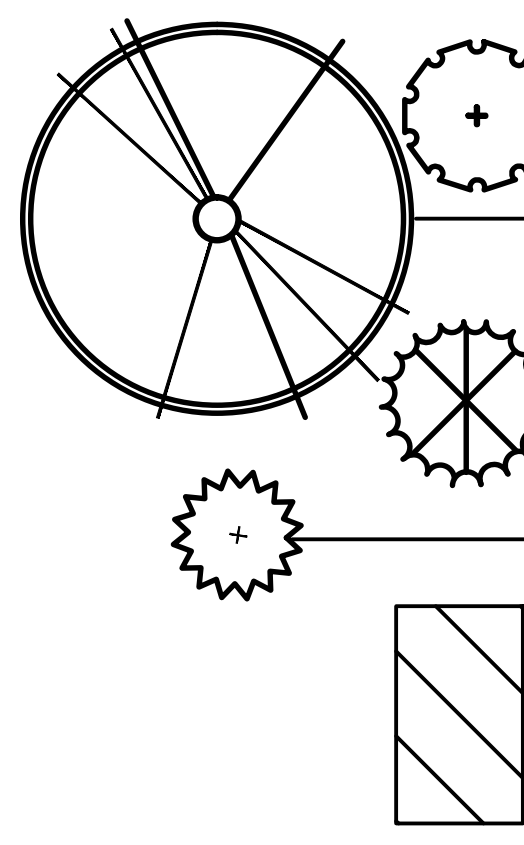
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FACILITY NUMBER: 333  
CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**LANDSCAPE PLAN**

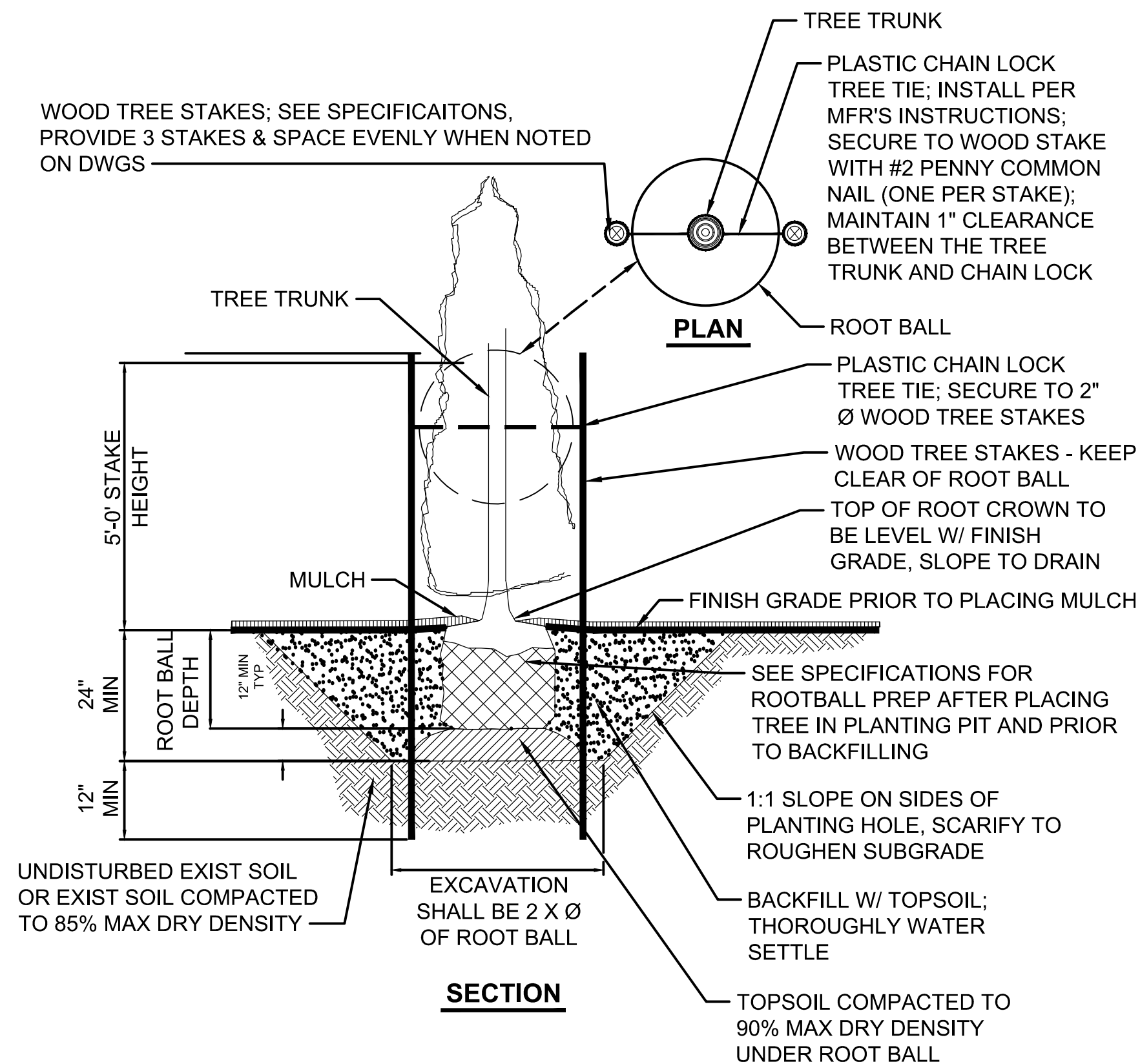
DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>L601</b>	
SHT NO / TOTAL	REV NO: <b>0</b>

PLANT SCHEDULE					
COMMON NAME	BOTANICAL NAME	SPACING	QTY.	ROOT CONDITION	SIZE
TREES					
VINE MAPLE	ACER CIRCINATUM	AS SHOWN	1	1.5 IN. CAL.	> 6 FT. HEIGHT
STREETSPIRE OAK	QUERCUS ROBUR X ALBA 'JFS-KW1QX'	AS SHOWN	2	1.5 IN. CAL.	12 FT. HEIGHT
SHRUBS AND GROUNDCOVERS					
MAHONIA 'WINTER SUN'	MAHONIA X MEDIA 'WINTER SUN'	AS SHOWN	7	#5 CONT.	24 IN. HEIGHT
EVERGREEN HUCKLEBERRY	VACCINIUM OVATUM	AS SHOWN	7	#5 CONT.	24 IN. HEIGHT
WESTERN SWORDFERN	POLYSTICHUM MUNITUM	2 FT. O.C.	134	#2 CONT.	12 IN. HEIGHT



**NOTES:**

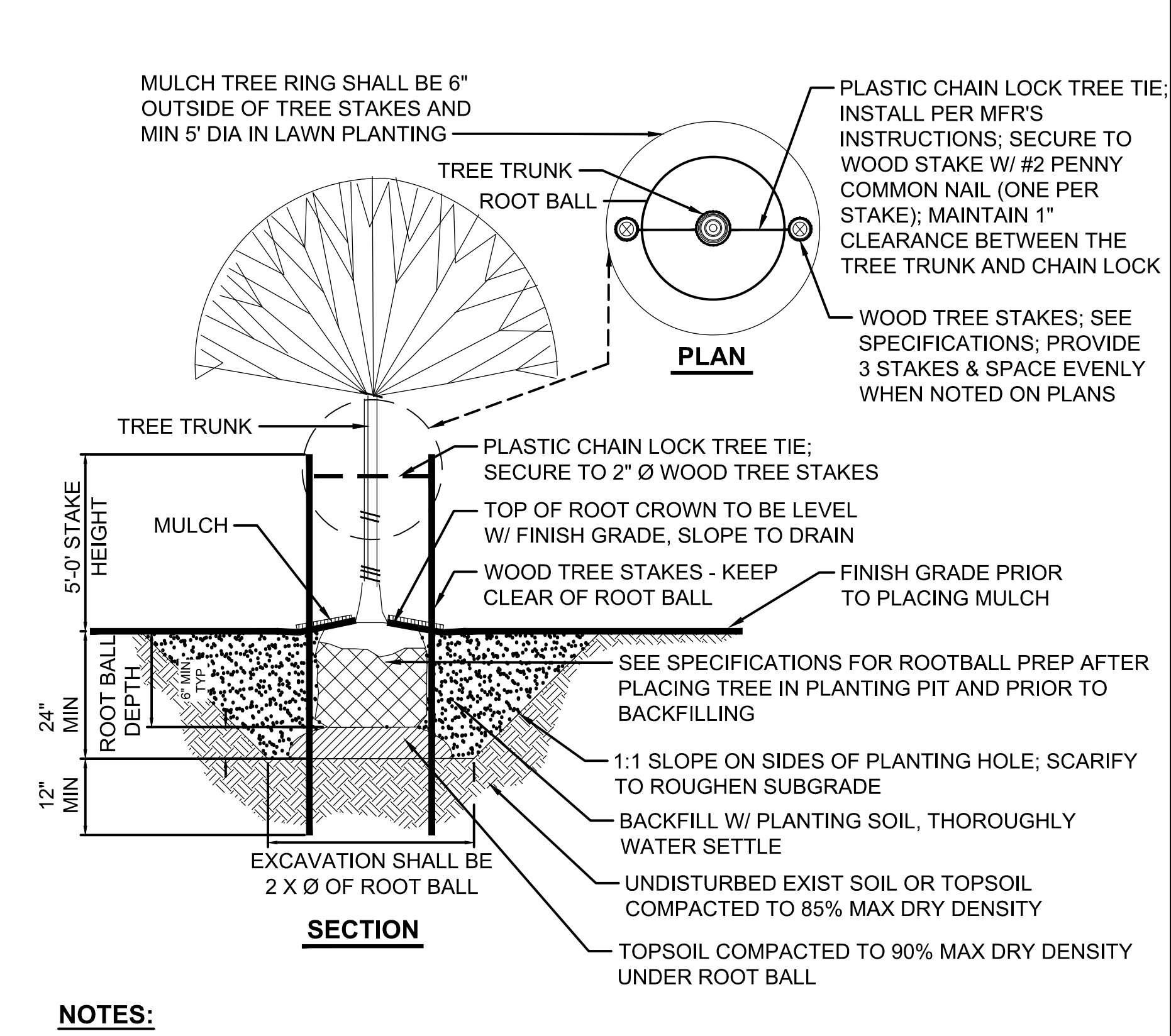
- ALL PLANT MATERIAL SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM REQUIREMENTS, AND ARE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". IF A CONFLICT OCCURS BETWEEN THESE SPECIFICATIONS AND THE "A.S.N.S.", THESE SPECIFICATIONS SHALL APPLY.
- ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH FULLY FILL THE CONTAINER WITHOUT HAVING ROOTS THAT CIRCLE THE POT.
- ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH HAVE BEEN INNOCULATED WITH THE APPROPRIATE MYCORRHIZAE.
- IMMEDIATELY BEFORE INSTALLATION, PLANT'S ROOTS THAT ARE BROKEN, DAMAGED, OR TWISTED SHALL BE PRUNED. MATTED OR CIRCLING ROOTS OF CONTAINERIZED PLANTS MUST BE PRUNED OR STRAIGHTENED AND THE SIDES OF THE ROOTBALL SHALL BE ROUGHENED FROM TOP TO BOTTOM TO A DEPTH OF APPROXIMATELY ONE HALF INCH IN TWO TO FOUR PLACES.
- CONTRACTOR IS ADVISED THAT A GROWING CONTRACT MAY BE NECESSARY TO OBTAIN THE AMOUNTS AND CONTAINER SIZES OF PLANTS SPECIFIED.
- USE CARE TO PROTECT ROOTS OF EXISTING TREES. PLANT OUTSIDE THE DRIP LINE OF EXISTING TREES.



**NOTES:**

- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
- PROVIDE 24" MIN DEPTH OF TOPSOIL AT CONIFER TREE EXCAVATION.
- FOR CONIFER TREES LESS THAN 6' IN HEIGHT, ONE TREE STAKE AT AN ANGLE IS ACCEPTABLE.

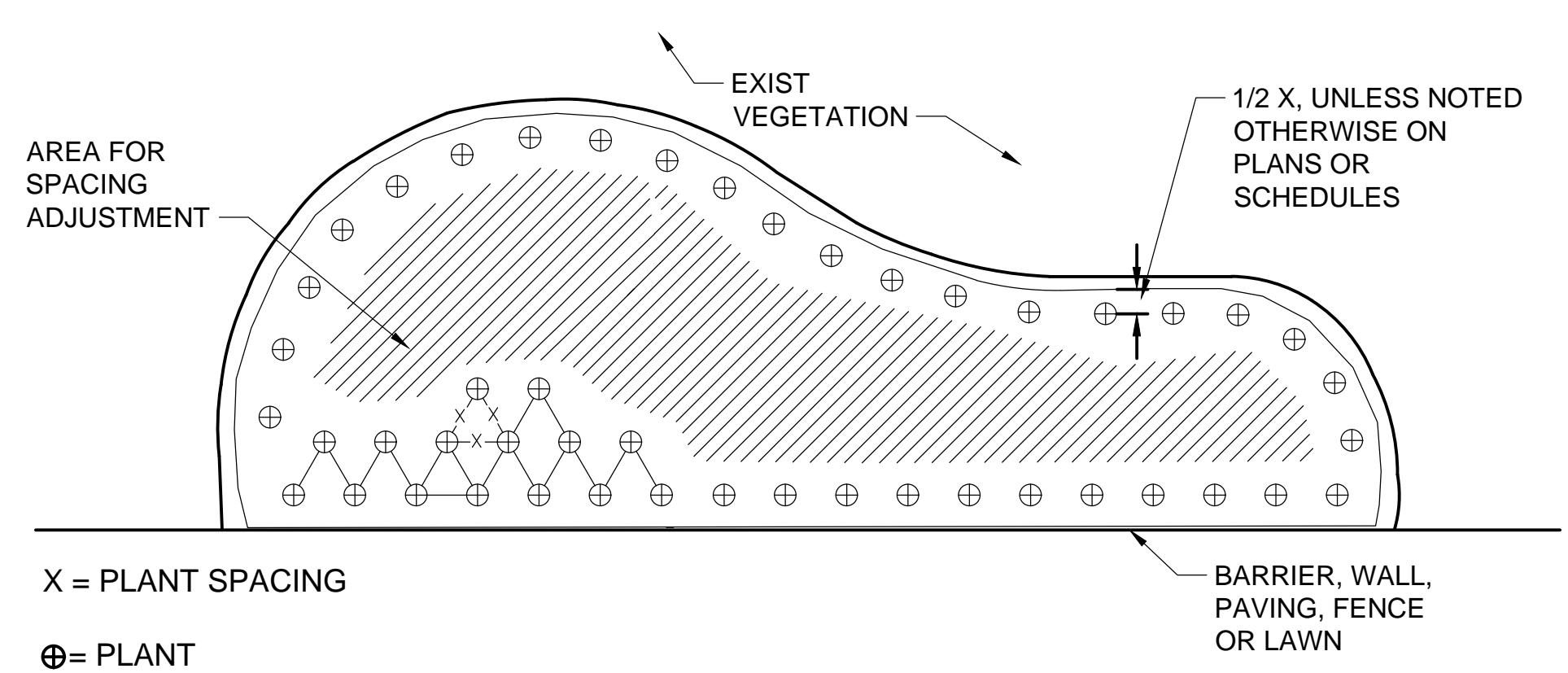
**2 CONIFER TREE PLANTING**  
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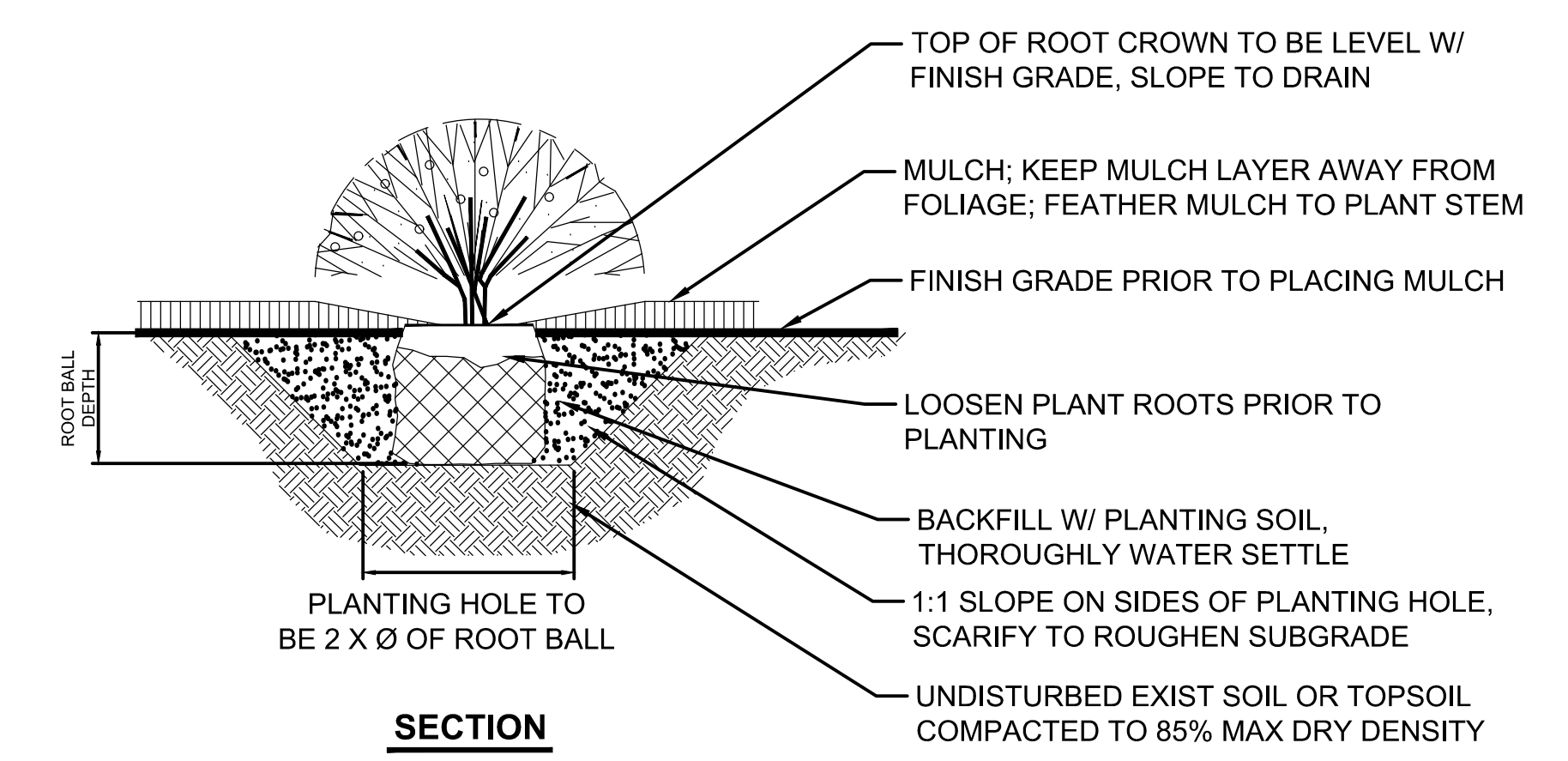
**NOTES:**

- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
- PROVIDE 24" MIN DEPTH OF TOPSOIL AT DECIDUOUS TREE EXCAVATION.
- ROTATE TREES IN PLANTING AREAS ADJACENT TO VEHICULAR ZONES SO THAT THE DOMINANT BRANCHES ALIGN PARALLEL TO THE VEHICULAR ZONES.

**3 DECIDUOUS TREE PLANTING**  
NO SCALE



**1 WESTERN SWORDFERN LAYOUT**  
NO SCALE



**NOTES:**

- SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.

**4 SHRUB PLANTING**  
NO SCALE

**FOR REFERENCE ONLY**

BORDER FILE EDITION: KCVTD-2012-Dsizer-TB-Border  
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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PRELIMINARY ISSUE DRAWING**  
 INFORMATION ONLY  
**DRAFT**  
 MERCER ISLAND LAND USE SET  
 SEPTEMBER 2019

DESIGNED/DRAWN: L. FRENCH	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR  
 UPGRADE - PUMP STATION IMPROVEMENTS  
**LIFT STATION 11**  
**LANDSCAPE DETAILS**

DCN:	DATE: 05/02/2019
PROJECT FILE NO:	
DRAWING NO: <b>L602</b>	
SHT NO / TOTAL	REV NO: <b>0</b>