PROJECT INFORMATION:

1. PROJECT ADDRESS:17937 CEDAR GROVE ROAD SE

MAPLE VALLEY, WA 98038

2. EXISTING INFORMATION SHOWN ON THIS PLAN IS BASED ON THE KING COUNTY DEPARTMENT OF PUBLIC WORKS SOLID WASTE DIVISION CEDAR HILLS REGIONAL LANDFILL LEACHATE PIPE SYSTEM PLAN DRAWING NO C-6, DATED 9-20-06 AND AVAILABLE GIS INFORMATION.

GENERAL NOTES:

- 1. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND FOR NOTIFYING THE ENGINEER IF ADDITIONAL UTILITIES OR CONFLICTS ARE DISCOVERED.
- 2. ALL CONSTRUCTION WASTE MATERIAL TO BE HAULED AWAY FROM SITE AND DEPOSITED AT APPROVED DISPOSAL LOCATION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, TEMPORARY FENCING, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACTOR'S WORK.
- 4. CARE SHALL BE TAKEN WHEN WORKING NEAR EXISTING UTILITIES.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND IMPLEMENT ADEQUATE EROSION CONTROL FACILITIES IN ACCORDANCE WITH LOCAL REGULATIONS.
- 6. PROJECT SHALL CONFORM TO 2021 WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS UNLESS NOTED
- 7. EXISTING LEACHATE PIPELINE BEDDING IS PEA GRAVEL. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF PEA GRAVEL BEDDING OF EXISTING UPSTREAM OR DOWNSTREAM PROPOSED LEACHATE PIPELINE. CONTRACTOR SHALL INJECT CONTROLLED DENSITY FILL IN ANY AREAS THAT MAY HAVE BEEN COMPROMISED TO FILL VOIDS THAT MAY HAVE FORMED BELOW THE EXISTING LEACHATE PIPELINE.
- 8. THE PROJECT AREA IS KNOWN TO HAVE A HIGH GROUNDWATER TABLE AS GROUNDWATER WAS PREVIOUSLY ENCOUNTERED DURING PIPELINE REPAIRS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING A DEWATERING SYSTEM TO PREVENT SOFTENING AND DISTURBANCE OF SUBGRADE TO ALLOW PIPE, BEDDING, AND BACKFILL MATERIAL TO BE PLACED IN DRY AND TO MAINTAIN A STABLE TRENCH WALL OR SIDE SLOPE. CONTRACTOR TO KEEP DEWATERING SYSTEM IN OPERATION UNTIL DEAD LOAD OF PIPE, STRUCTURE, AND BACKFILL EXCEEDS POSSIBLE BUOYANT UPLIFT FORCE ON PIPE OR STRUCTURE. CONTRACTOR TO DISPOSE OF GROUNDWATER. CONTRACTOR SHALL SUBMIT A TYPE 2 WORKING DRAWING CONSISTING OF A DEWATERING PLAN PER WSDOT STANDARD SPECIFICATION SECTION 6-20.3(2)D DEWATERING SYSTEM.
- 9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATION WITH KING COUNTY TO TEMPORARILY SHUTOFF THE LEACHATE PIPELINE DURING PIPELINE REPAIRS. THE MAXIMUM DURATION OF SHUTOFF TIME IS 5 DAYS.

CONSTRUCTION REQUIREMENTS:

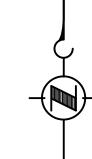
- 1. FLAG CLEARING LIMITS.
- 2. INSTALL CATCH BASIN PROTECTION ON ANY AND ALL CATCH BASINS THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION OPERATIONS.
- 3. INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- 4. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
- 5. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 48 HOURS OR PRIOR TO FORECASTED RAIN.
- 6. UPON COMPLETION OF THE PROJECT ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED IF APPROPRIATE.



VICINITY MAP 1"=100'

> ABBREVIATIONS DUCTILE IRON DIA DIAMETER FLANGE

> > PLAIN END STANDARD STAINLESS STEEL MINIMUM



SCALE: 1" = 100'

DRAWING INDEX

0_G0.00 COVER SHEET & SHEET INDEX 0_C0.00 SITE EXISTING CONDITIONS & PIPE REMOVAL FIGURES

0 C1.00 OVERALL SITE PLAN

0_C1.01 SITE LAYOUT & PIPING PLAN - AREA 1 0_C1.02 SITE LAYOUT & PIPING PLAN - AREA 2

0_C1.03 ROADWAY PLAN - AREA 1

0_C1.04 ROADWAY PLAN - AREA 2

0_C5.01 PRECAST UTILITY VAULT DETAILS - AREA 1 0 C5.02 PRECAST UTILITY VAULT DETAILS - AREA 2

0_C5.03 ROADWAY SECTION DETAILS

LEGEND

— — 235.00— EXISTING GRADE MAJOR CONTOUR

---233.00--- EXISTING GRADE MINOR CONTOUR

— B — B — 150' AQUATIC AREA BUFFER —— SB ——— SB —— 200' SHORELINE JURISDICTION BUFFER

OHW EXISTING WATER BODY ORDINARY HIGH WATER MARK

EDGE OF EXISTING PAVEMENT

EXISTING FOGLINE

EXISTING LEACHATE PIPELINE

EDGE OF PROPOSED PAVEMENT PROPOSED FOGLINE

PROPOSED LEACHATE PIPELINE

---- UTILITY VAULT FOOTING

UTILITY VAULT WALLS (BELOW GRADE)

PROPOSED UTILITY VAULT DOUBLE-LEAF ACCESS HATCH

UTILITY VAULT ACCESS FRAME AND GRATE

CLEANOUT

PLUG VALVE

FLEXIBLE ROMAC COUPLING

FULL DEPTH ASPHALT CONCRETE PAVEMENT REMOVAL/HMA REPLACEMENT

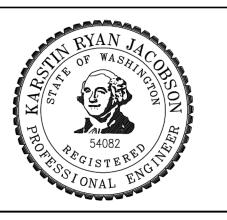
2" PLANING BITUMINOUS PAVEMENT

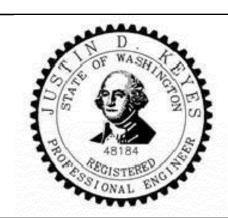
CLEARING AND GRUBBING

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BY APP'D DATE REVISION







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1"=100'	
	SOLID WASTE DIVISION

DEPARTMENT OF NATURAL RESOURCES & PARKS

SOLID WASTE DIVISION KING COL **/EMENTS**

UNTY LEACHATE PIPELINE IMPROV
COVER SHEET
& SHEET INDEX

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1 OF 10

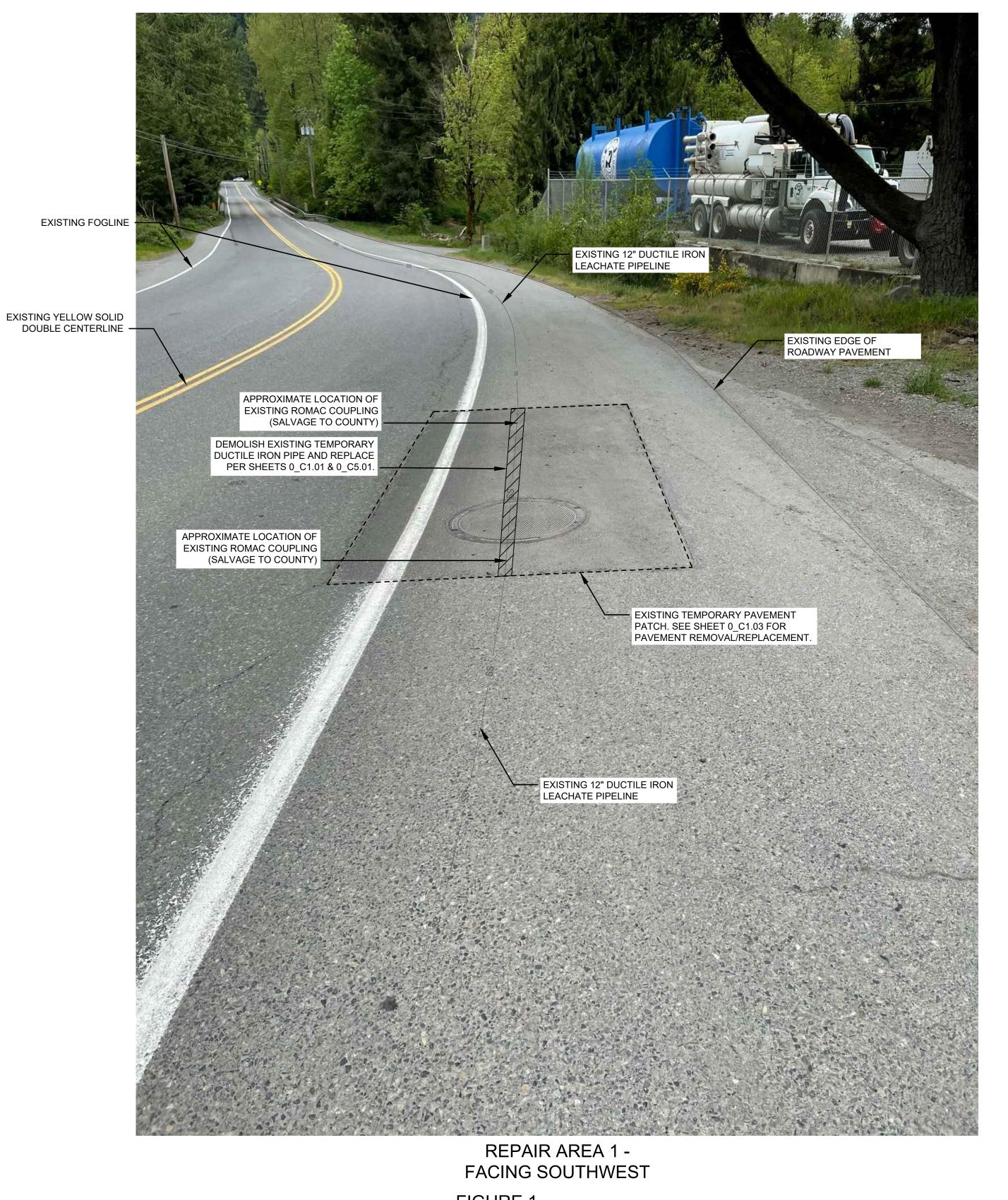


FIGURE 1

BY APP'D DATE

REVISION

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A Supply Supply



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EXISTING FOGLINE

APPROXIMATE LOCATION OF EXISTING ROMAC COUPLING (SALVAGE TO COUNTY)

EXISTING 12" DUCTILE IRON LEACHATE PIPELINE -

EXISTING YELLOW SOLID DOUBLE CENTERLINE

DEMOLISH EXISTING TEMPORARY

DUCTILE IRON PIPE AND REPLACE PER SHEETS 0_C1.02 & 0_C5.02.

APPROXIMATE LOCATION OF

PARTMENT OF NATURAL RESOURCES & PARKS

SOLID WASTE DIVISION
KING COUNTY LEACHATE PIPELINE IMPROVEMENTS
SITE EXISTING CONDITIONS
& PIPING REMOVAL FIGURES

EXISTING GUARDRAIL (PROTECT IN PLACE)

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EXISTING TO COUNTY)

EXISTING TO COUNTY

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ROADWAY PAVEMENT

PATCH SIE BEBT 0 CTOM ON PAVEMENT

PATCH

REPAIR AREA 2 -FACING SOUTHWEST

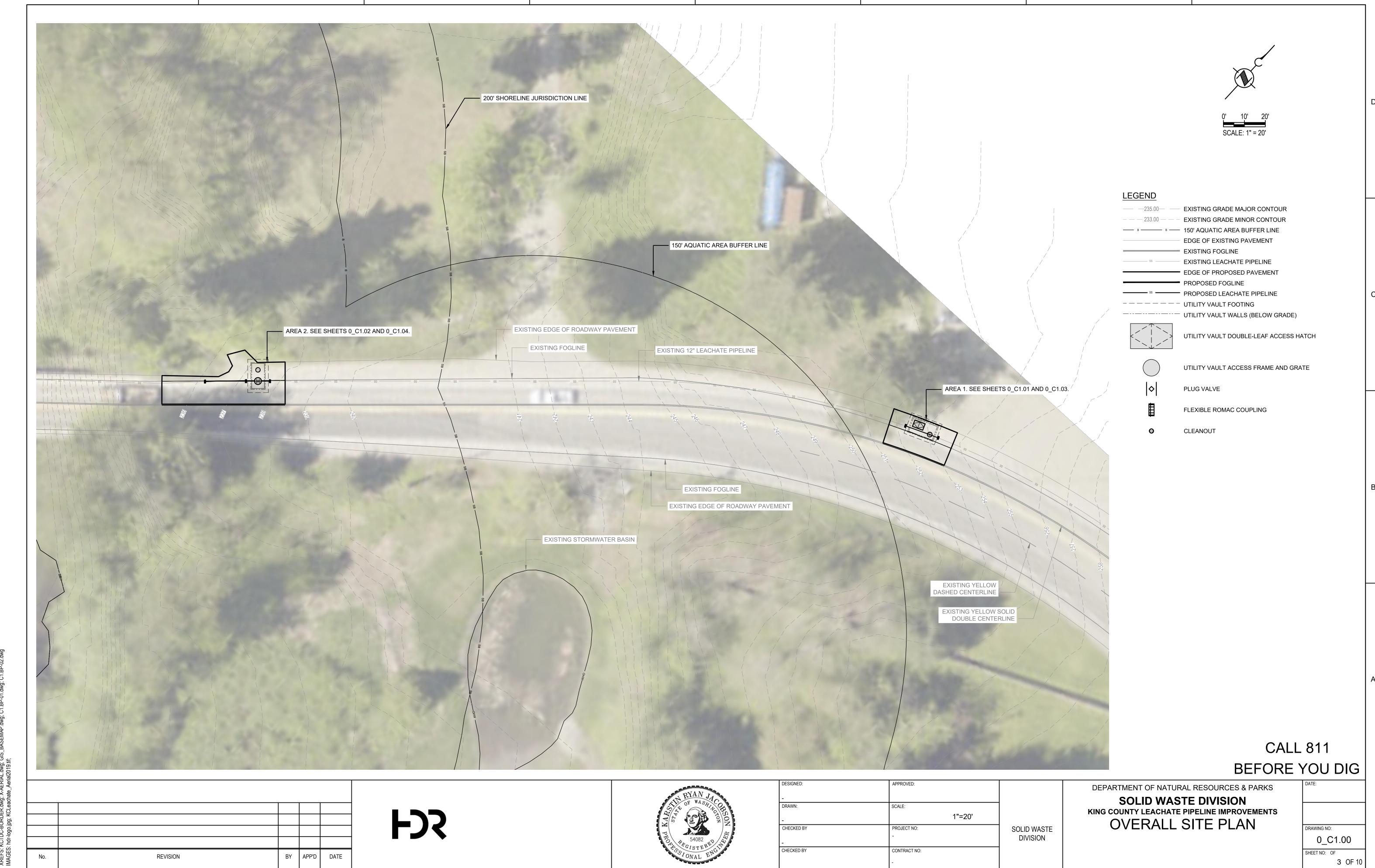
FIGURE 2

SCALE: NTS

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SOLID WASTE DIVISION

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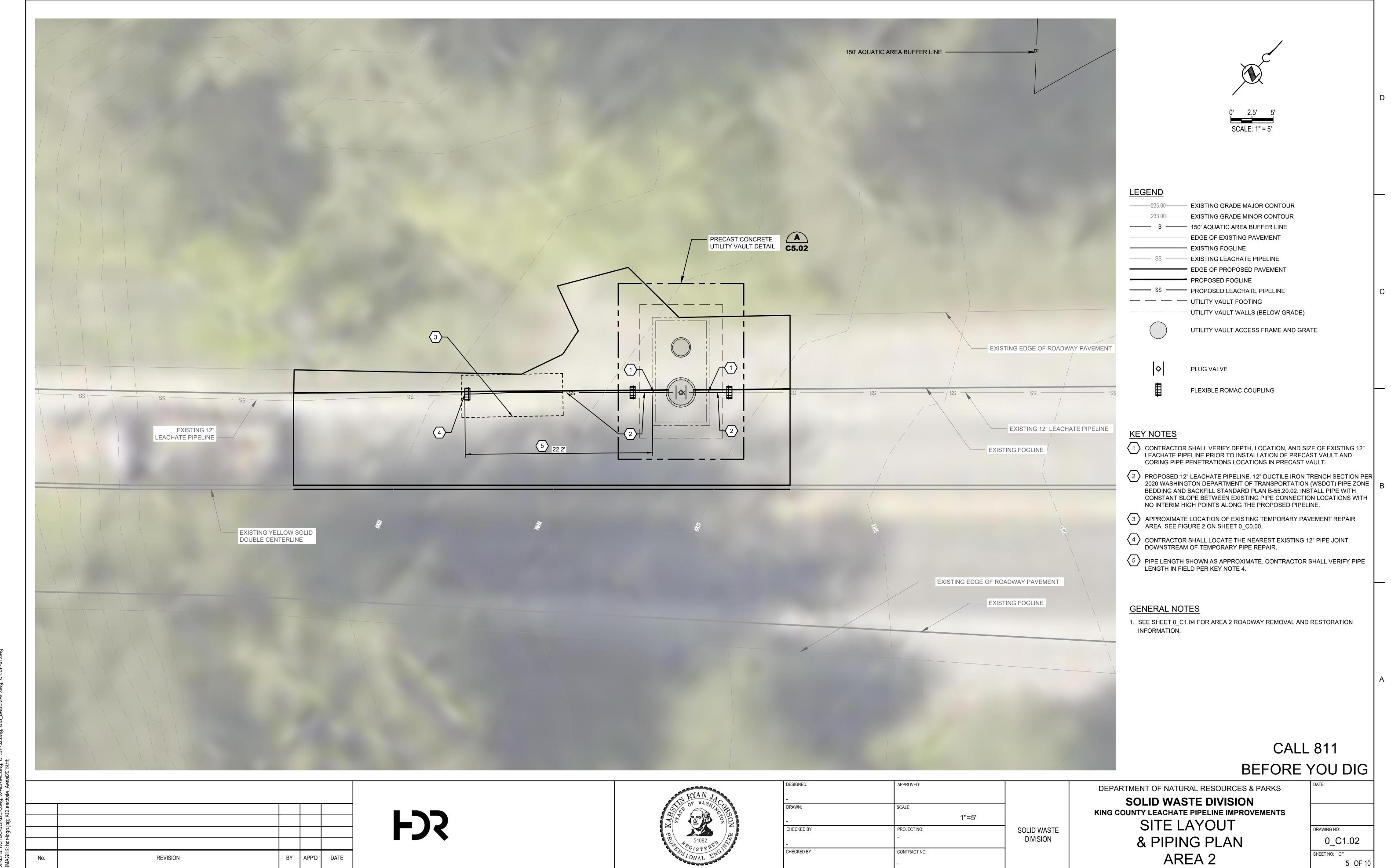


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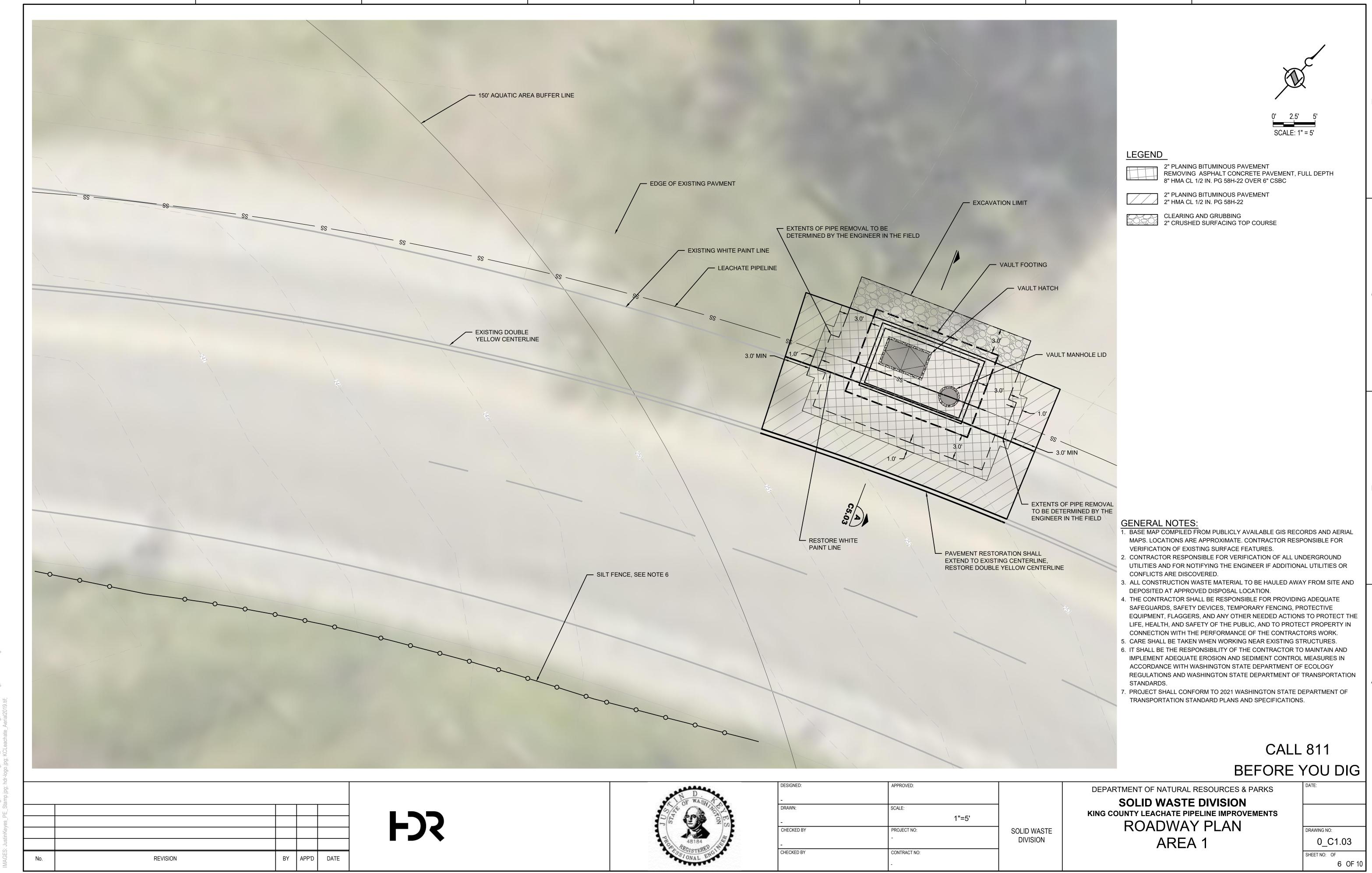
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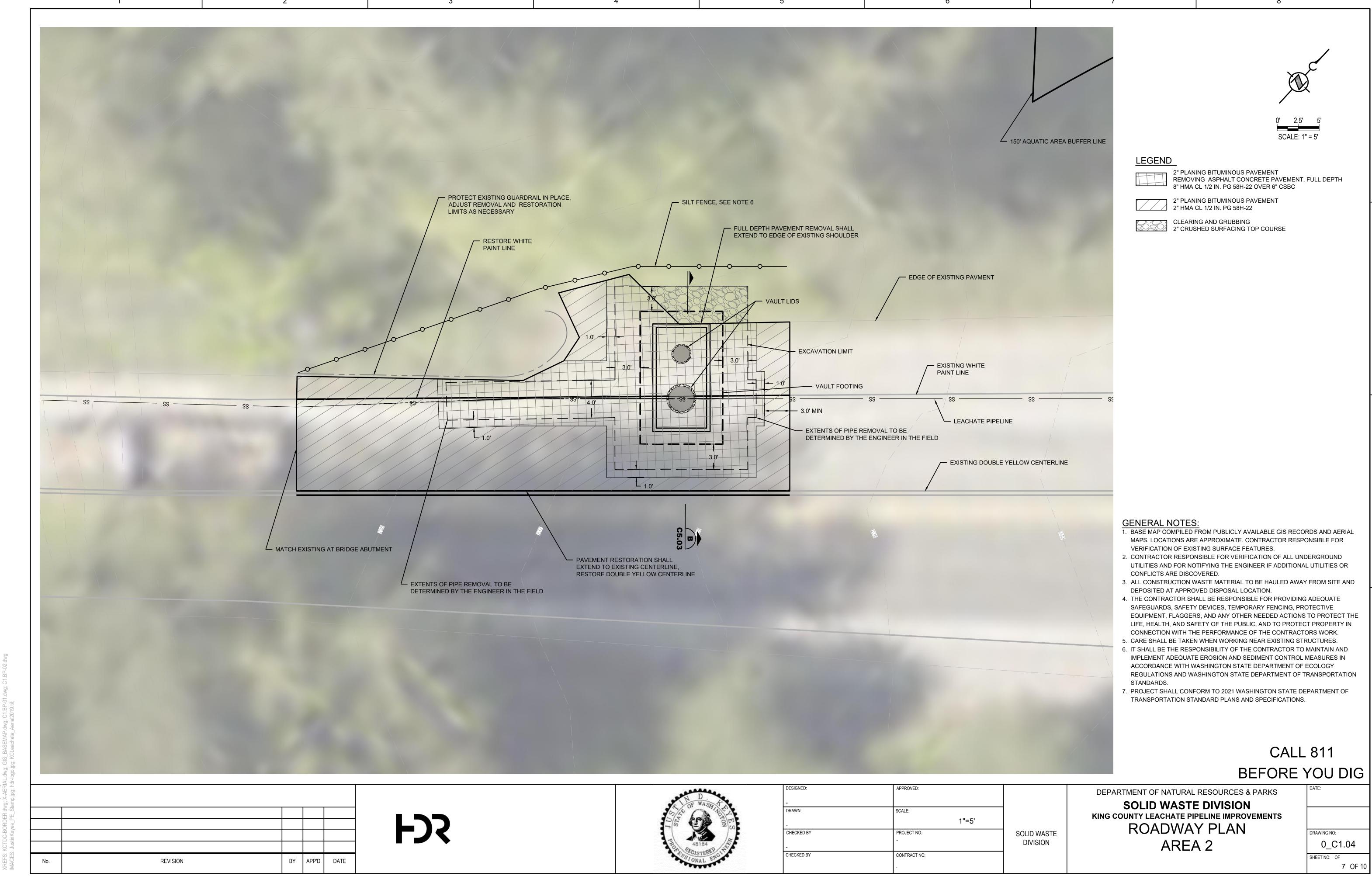
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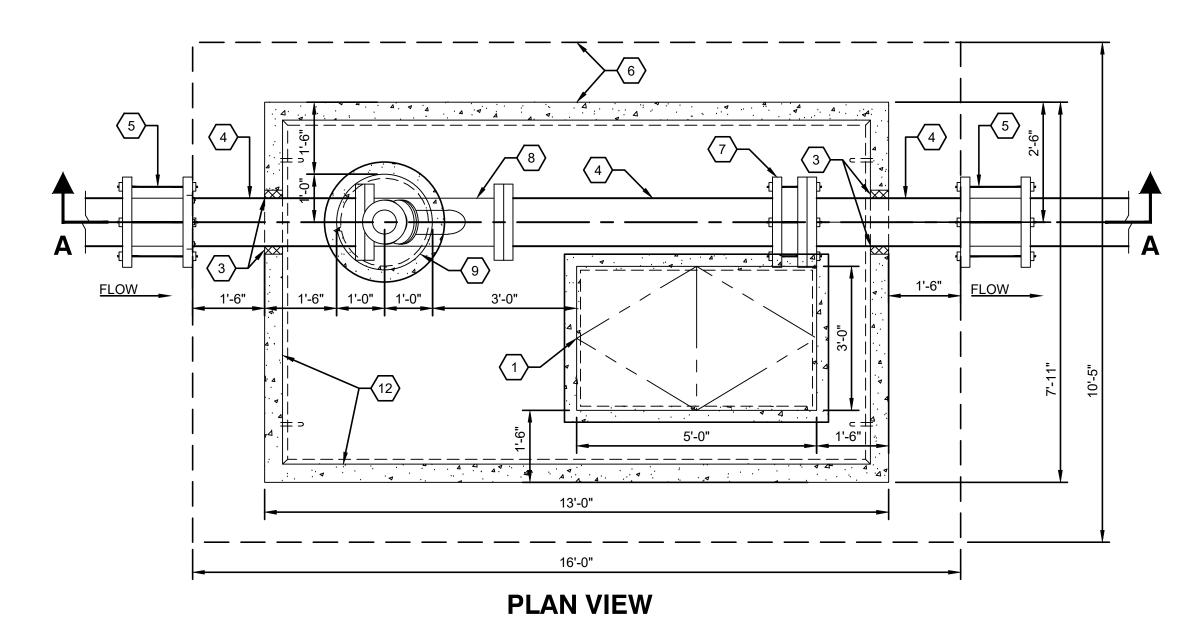


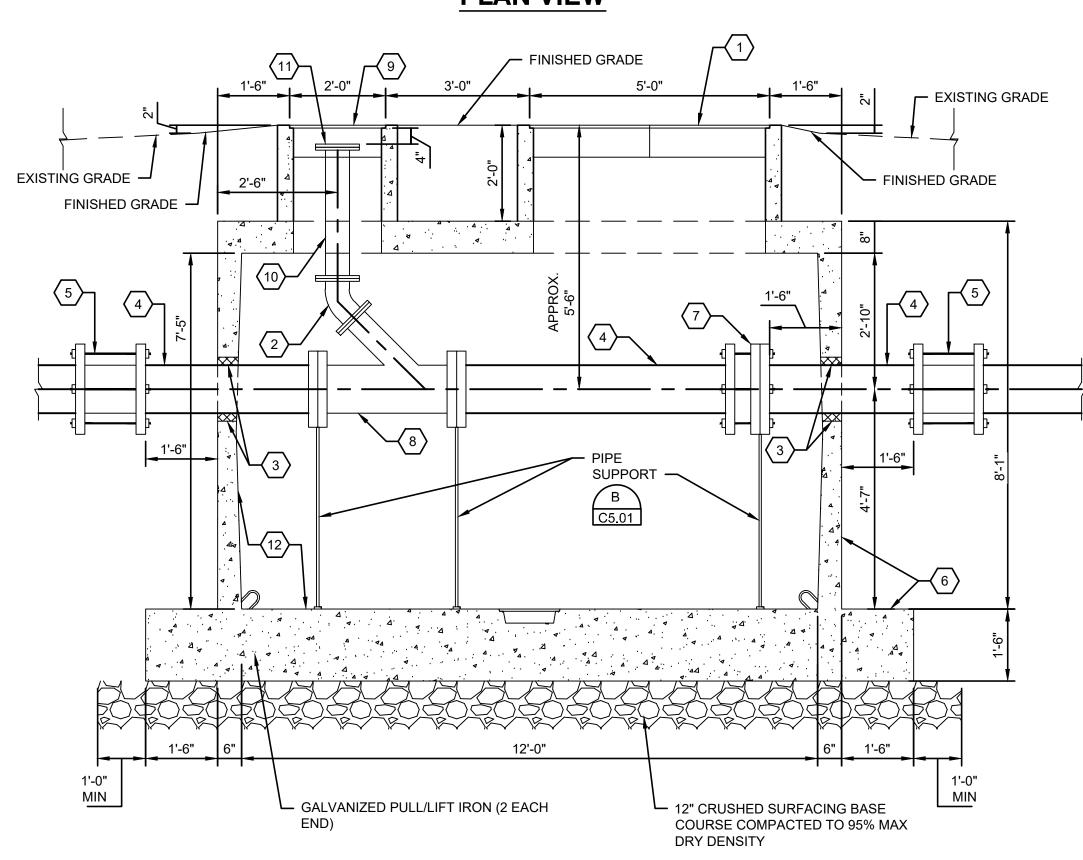
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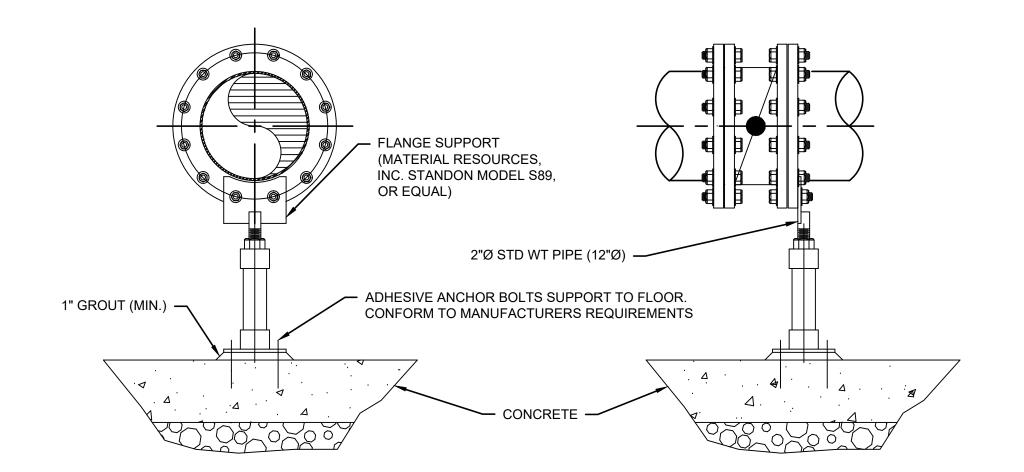




SECTION AA

PRECAST UTILITY VAULT AREA 1

A **DETAIL** SCALE: 1/2"=1'-0" C5.01



NOTE: 1. WELD TO RESIST UPLIFT PER MANUFACTURES RECOMMENDATIONS.

PIPE SUPPORT

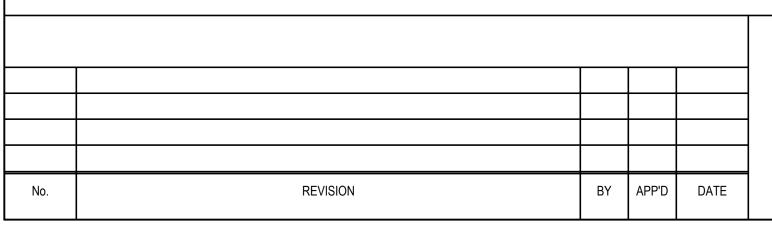
B DETAIL SCALE: NTS C5.01

CONSTRUCTION NOTES

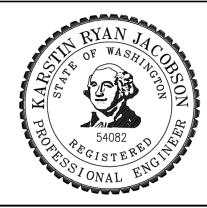
- 1. ALL PENETRATIONS SHALL BE CORE DRILLED AND SECURED/SEALED WITH LINK SEAL AND GROUTED INSIDE AND OUT.
- 2. DUCTILE IRON PIPE PER WSDOT STANDARD SPECIFICATION SECTION 9-30.1(1). DUCTILE IRON PIPE SHALL BE LINED WITH 40 MIL THICK OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL. POLYETHYLENE ENCASEMENT SHALL BE PER ANSI/AWWA AND WSDOT STANDARD SPECIFICATION SECTION 9-30.1(2).
- 3. DUCTILE IRON PIPE FITTINGS PER WSDOT STANDARD SPECIFICATION SECTION 9-30.2(1). DUCTILE IRON FITTINGS SHALL BE LINED WITH 40 MIL THICK OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL.

KEY NOTES

- 1 UTIILTY VAULT HS-20 ACCESS HATCH (36" X 60") (LW PRODUCTS COMPANY TYPE HD DOUBLE-LEAF DOOR) OR APPROVED EQUAL (COUNTY PROVIDED).
- 2 6" DI 45° BEND, FL (SEE NOTE 3)
- (3) MODULAR MECHANICAL SEAL LINK SEAL MODEL S-316 OR APPROVED EQUAL. SEAL SHALL BE SYNTHETIC RUBBER LINKS, SIZED TO FILL THE ANNULUS BETWEEN THE PIPE AND WALL OPENING AND SHALL EXPAND TO FORM A WATERTIGHT SEAL.
- 4 12" DI PIPE, FL X PE (SEE NOTE 2)
- 5 12" RESTRAINED MECHANICAL COUPLING ROMAC ALPHA RESTRAINT COUPLING OR APPROVED EQUAL.
- 6 UTILITY VAULT W/ 1'-6" EXTENDED BASE (OLDCASTLE 712-LA) OR EQUAL (COUNTY PROVIDED).
- 7) 12" DI FLEXIBLE COUPLING ADAPTER. ROMAC INDUSTRIES, INC., STYLE FCA501 OR APPROVED **EQUAL**
- 8 12" X 12" X 6" DI REDUCING WYE, FL (SEE NOTE 3)
- 9 24" DIA CAST IRON ACCESS FRAME AND GRATE (COUNTY PROVIDED)
- (10) 6" DI PIPE. FL X PE (SEE NOTE 2)
- (11) 6" DI BLIND FLANGE. INSTALL 4" BELOW THE BOTTOM OF 24" DIA CAST IRON ACCESS GRATE.
- (12) PRECAST VAULT INTERIOR EPOXY COATING RAVEN LINING SYSTEMS RAVEN 405 OR APPROVED EQUAL. COATING SHALL BE APPLIED AND TESTED BY A CERTIFIED APPLICATOR OF THE PROTECTIVE COATING MANUFACTURER AND ACCORDING TO MANUFACTURER SPECIFICATIONS. APPLICATOR SHALL INSPECT ALL SURFACES SPECIFIED TO RECEIVE PROTECTIVE COATING PRIOR TO SURFACE PREPARATION. ALL CONTAMINANTS INCLUDING OILS, GREASE, UNSOUND OR INCOMPATIBLE EXISTING COATINGS, WAXES, FORM RELEASE, CURING COMPOUNDS, EFFLORESCENCE, SEALERS, SALTS, OR OTHER CONTAMINANTS SHALL BE REMOVED. SPRAY APPLICATION EQUIPMENT APPROVED BY THE COATING MANUFACTURER SHALL BE USED. THE SPRAYED ON MATERIAL SHALL BE APPLIED TO COMPLETELY AND UNIFORMLY COVER THE CONCRETE SURFACES, BOTTOM, WALLS, AND UNDERSIDE OF LID. FINISHED SURFACE SHALL BE SMOOTH. THE COATING SHALL BE APPLIED TO 100 MILS PER COAT TO PREVENT SAGGING. TESTING AND INSPECTION SHALL BE CONDUCTED BY THE CONTRACTOR'S COATING INSPECTOR. DURING APPLICATION A WET FILM THICKNESS GAGE PER ASTM D4414 MAY BE USED TO ENSURE A MONOLITHIC COATING AND UNIFORM THICKNESS DURING APPLICATION. AFTER THE PROTECTIVE COATING HAS SET HARD TO THE TOUCH IT SHALL BE INSPECTED WITH HIGH-VOLTAGE HOLIDAY DETECTION EQUIPMENT. THE VOLTAGE APPLIED SHALL BE ADJUSTED AS NECESSARY TO DETER THE INDUCED HOLIDAY (REFER TO NACE RPO188-99). ALL DETECTED HOLIDAYS SHALL BE MARKED AND REPAIRED BY ABRADING THE COATING SURFACE WITH GRIT DISK PAPER OR OTHER HAND TOOLING METHOD. AFTER ABRADING AND CLEANING, ADDITIONAL PROTECTIVE MATERIAL CAN BE HAND APPLIED TO THE REPAIR AREA. A VISUAL INSPECTION SHALL BE MADE USING THE LATEST NASSCO STANDARD INSPECTION FROM. ANY DEFICIENCIES IN THE FINISHED COATING SHALL BE MARKED AND REPAIRED ACCORDING TO THE PROCEDURES SET FORTH HEREIN BY APPLICATOR.







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DEPARTMENT OF NATURAL RESOURCES & PARKS

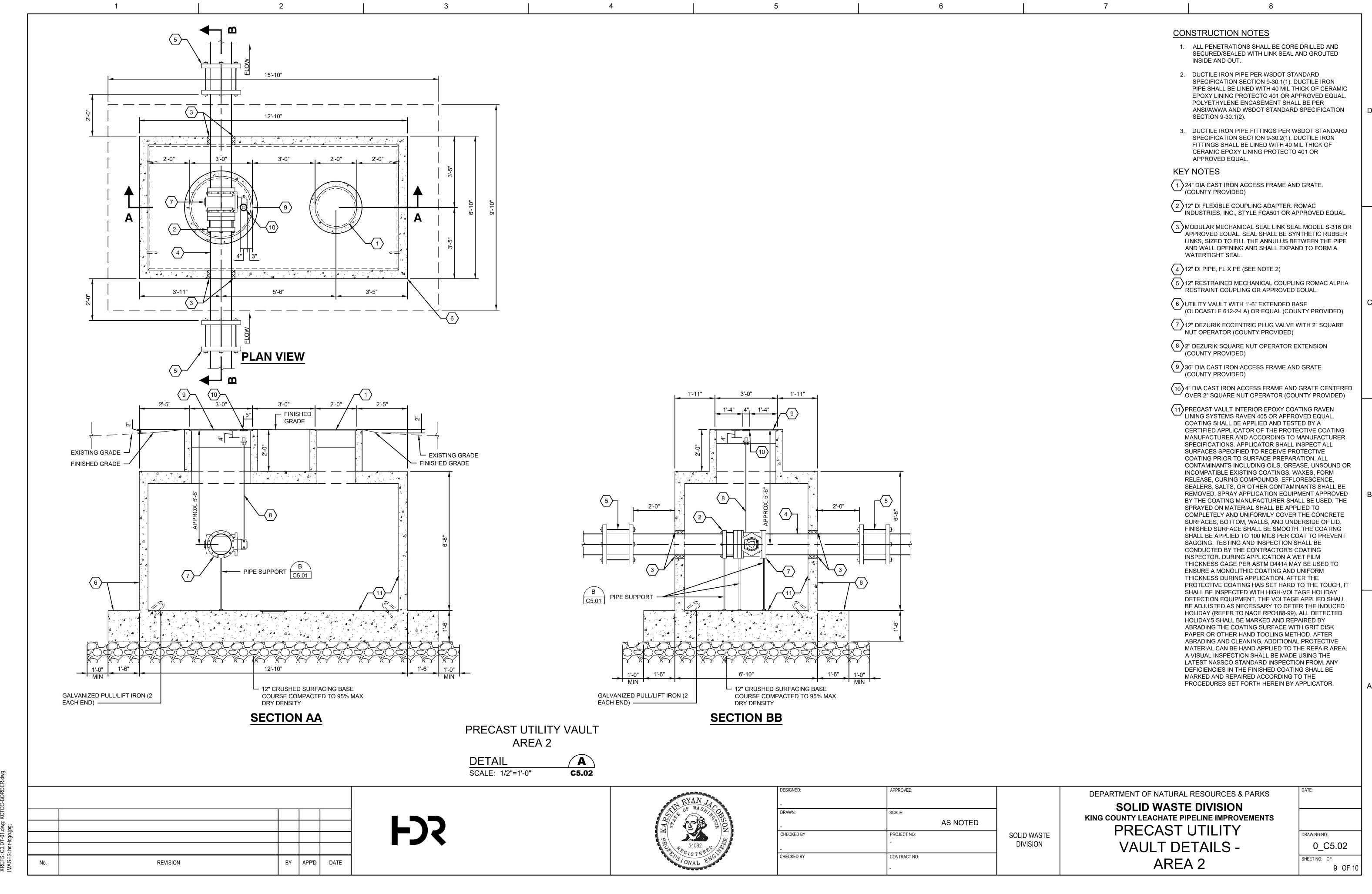
SOLID WASTE DIVISION KING COUNTY LEACHATE PIPELINE IMPROVEMENTS PRECAST UTILITY

VAULT DETAILS -AREA 1

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