

Woodland Oaks

Low Pressure Sewer System (LPSS)

Overview & Equipment

The Woodland Oaks Residential Subdivision contains 42 single family lots numbered 1 - 42. The development will be solely serviced by a LPSS to provide sanitary sewer service. The LPSS consists of three forcemain runs each commencing at an individual cul-de-sac. Forcemain three is the common forcemain consisting of both 2" and 3" HDPE that conveys sewage to Woodland Shores gravity system for further conveyance downstream to the Woodland Shores Pump Station. The Woodland Oaks LPSS design is based on E-ONE design software and equipment. Other manufacturers equipment may be substituted in lieu of E-One however the selected equipment should meet or exceed the E-One specifications outlined in this document.

The builder/homeowner shall be responsible for connecting to the capped service line as depicted in the general layout. The service line ball shutoff and integral check valve (lateral assembly) along with a segment of 1.25" service line will be installed by the developer to provide a complete and working system with the capability of users connecting to the system without system shutdowns and interruption to the travelled way. The builder/homeowner shall be responsible for the purchase, installation and operation of the following; minimum 4" SDR-26 gravity line as required, simplex grinder station, control panel (Interior or Exterior), 1.25" SDR 11 HDPE service line as required and connection to existing system. Line lengths and grinder station depth are dependent on station placement on the lot. The builder/homeowner shall own and be responsible for the lateral assembly and all system components upstream to the residence including but not limited to the service line, grinder station including pump and internal piping and appurtenances, control panel and gravity service line. A detail of the typical service (lateral) installation is attached along with a detail of the standard 1.25" stainless steel (SST) lateral assembly.

Both standard and walkout lots will be served by the LPSS requiring different depth grinder stations depending on the service elevation required. The goal is to maintain a minimum 42" bury depth on the discharge line while providing the minimum storage capacity (70 gallons) required for a single family residence. The standard simplex grinder station for a walkout basement is typically a model DH071-93, see cut sheet attached. The standard simplex grinder station for a standard basement is typically a model DH071-158, see cut sheet attached. The builder/homeowner shall select the basin depth necessary to meet their goals while meeting all applicable plumbing codes. Regardless of basin depth the grinder pump shall have a standard duty point of 11 gpm @ 40 psi and operate over a total dynamic head range of 0 to 175'. The standard pump unit shall be rated 1 horsepower and operate on 120 volt single phase power. See standard pump curve attached.

The lateral assembly consisting of a ball valve and integral swing check shall be E-One P/N: NC0193G01.

The service line shall be 1.25" SDR 11 HDPE installed with 12 gauge tracer wire for locating purposes.

The control panel shall be the standard E-One simplex controller hard wired for interior or exterior placement as preferred by the end user.

WOODLAND OAKS

Lots 1 thru 42

SANITARY SEWER CONSTRUCTION PLANS

Section 27, Township 48 North, Range 31 West

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

SANITARY SEWERS:

- SANITARY SEWER FORCEMAIN SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), SDR-11, UNLESS NOTED OTHERWISE IN THESE PLANS. FITTINGS AND APPURTENANCES SHALL MEET OR EXCEED PIPE PRESSURE CLASS.
- HOUSE SEWER LATERALS SHALL BE 1.25 INCH HDPE, SDR-11. LATERALS SHALL BE CONSTRUCTED USING A TEE OR TAPPING SADDLE AT THE SEWER STATION SHOWN IN THESE PLANS. EACH SERVICE SHALL HAVE A BALLCHECK LATERAL ASSEMBLY LOCATED 9' FROM THE MAIN. SEE DETAIL THIS SET. TERMINATE SERVICE LATERAL WITH CAP PER PLAN. LENGTH VARIES. MAINTAIN A MINIMUM 42" BURY ON ALL SERVICE LATERALS.
- THE CONTRACTOR SHALL MAINTAIN A LOG OF THE "AS BUILT" STATION AND LENGTH OF EACH HOUSE LATERAL AND SHALL PROVIDE ENGINEERING SOLUTIONS, L.L.C. WITH A COPY OF SAID LOG UPON COMPLETION OF SEWER CONSTRUCTION.
- ALL MANHOLES/STRUCTURES INSTALLED IN THE STREET RIGHT-OF-WAY SHALL BE FINISHED 1/2" PER FOOT ABOVE THE NEAREST ADJACENT BACK OF CURB
- A STAKE SHALL BE PLACED AT THE END OF EACH LATREAL WITH THE END ELEVATION WRITTEN ON THE STAKE
- FILL AREAS SHALL HAVE 18" OF COMPACTED FILL IN PLACE PRIOR TO TRENCHING
- EPOXY COAT INTERNAL SURFACE OF MANHOLES AS DIRECTED IN THE PLAN SET. LIGHTLY SANDBLAST AND EPOXY COAT MANHOLES WITH A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 8.0 MILS. EPOXY SHALL BE ONE OF THE FOLLOWING: CITADEL SLS-30, NEOPOXY NPR-5300 OR RAVEN 405.

GENERAL NOTE:

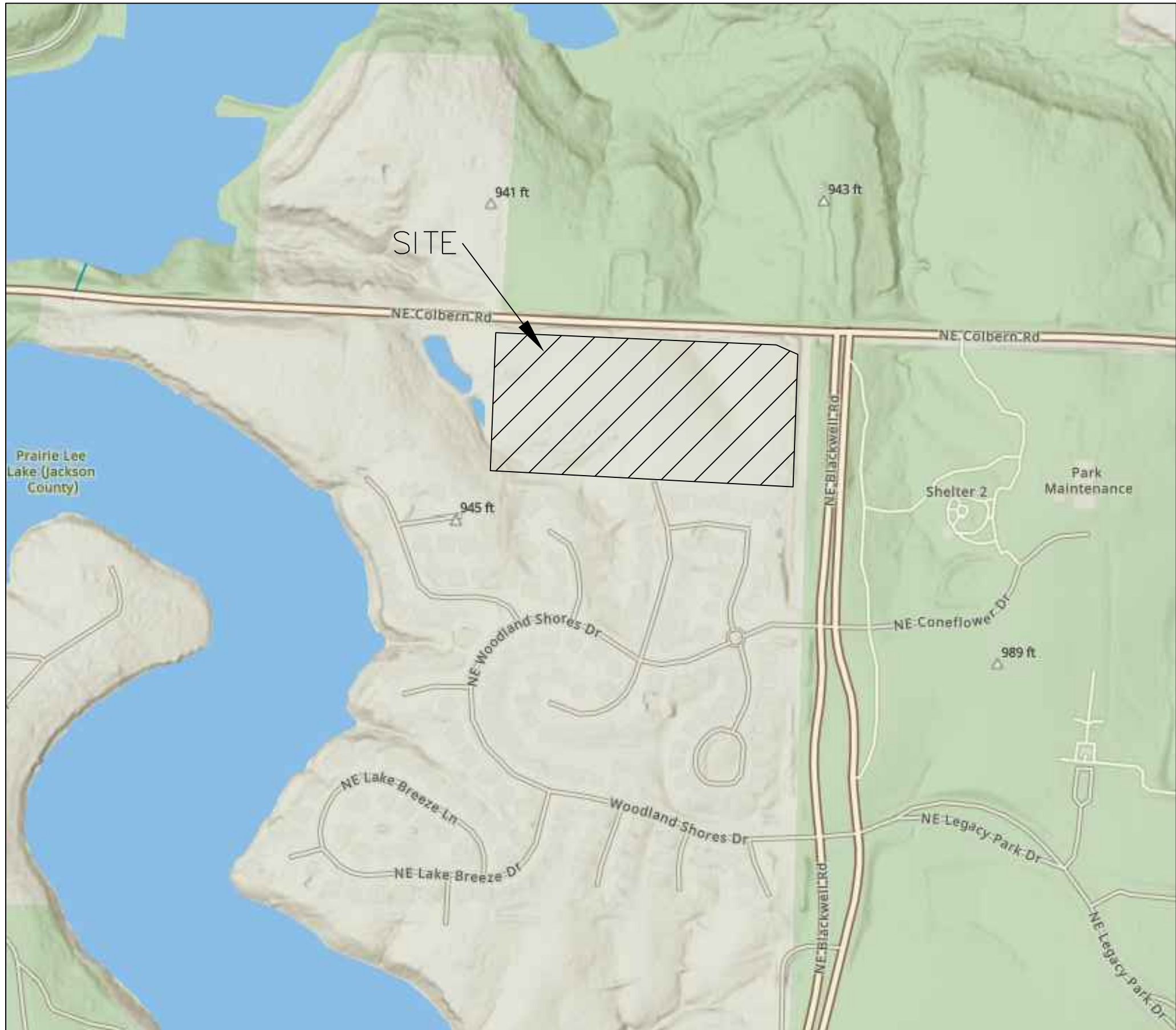
- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- TRACER WIRE SHALL BE INSTALLED ON ALL FORCEMAINS AND SERVICE LATERALS.

OIL - GAS WELLS

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:

The property is located in Zone "X" areas outside the 100 year flood plain per FEMA Map 29095C0430G, dated January 20, 2017



INDEX OF SHEETS:

- C.400 ~ SANITARY SEWER COVER SHEET
- C.401 ~ SANITARY SEWER GENERAL LAYOUT
- C.402 ~ SANITARY SEWER PLAN & PROFILE
- C.403 ~ SANITARY SEWER PLAN & PROFILE
- C.404 ~ SANITARY SEWER PLAN & PROFILE
- C.405 ~ SANITARY SEWER PLAN & PROFILE
- C.406 ~ SANITARY SEWER DETAILS

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
SANITARY		
3" PVC HDPE SDR-11 FORCEMAIN	LF	1,826.64
2" PVC HDPE SDR-11 FORCEMAIN	LF	2,034.76
1.25" HDPE SDR-11 SERVICE LINE	LF	966.30
1.25" LATERAL ASSEMBLY	EA	42.00
2" PVC HDPE SDR-11 BENDS	EA	1.00
AIR RELEASE VALVE & VAULT	EA	2.00
PIPE BORING	LF	85.49
MANHOLE EPOXY LINING	EA	3.00
CONNECTION TO EXISTING SYSTEM	LS	1.00
ODOR/CORROSION CONTROL SYSTEM	EA	1.00

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

EVERGY ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

LEGEND:

- B/L - BUILDING SET-BACK
- C/A - COMMON AREA
- D/E - DRAINAGE EASEMENT
- FND. - FOUND
- L/E - LANDSCAPE EASEMENT
- L.N.A. - LIMITS OF NO ACCESS
- R/W - RIGHT OF WAY
- SAN - SANITARY SEWER LINE
- S/W - SIDEWALK
- U/E - UTILITY EASEMENT
- W - WATER LINE
- ST - STORM SEWER LINE

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

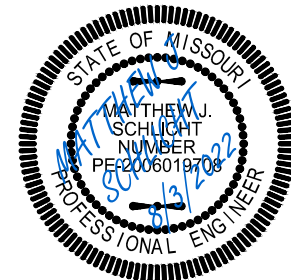


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Part of the Southeast 1
Section 27, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project:
WOODLAND OAKS
LSMO
Issue Date:
February 25, 2021

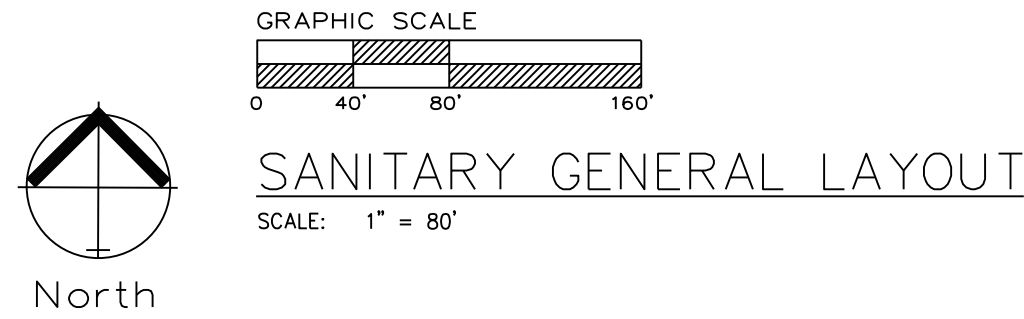
Cover Sheet
Construction Plans for:
WOODLAND OAKS
Lots 1 thru 42
Lee's Summit, Jackson County, Missouri



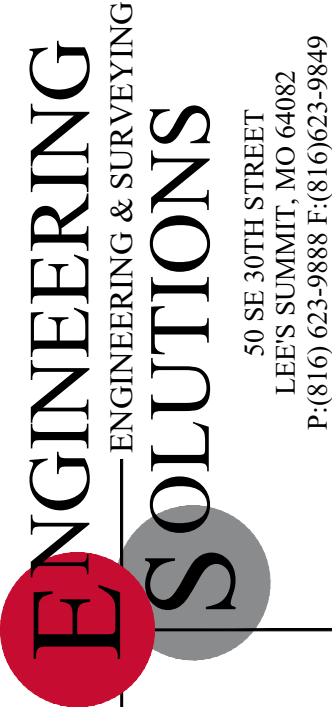
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

- REV. 5/5/2021
- REV. 5/26/2021
- REV. 6/22/2021
- REV. 6/29/2021



GENERAL NOTE:
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2 ~ TRACER WIRE SHALL BE INSTALLED ON ALL FORCEMAINS AND SERVICE LATERALS.

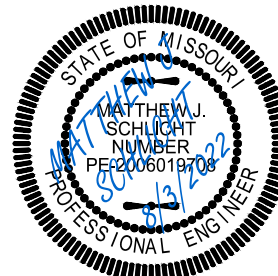


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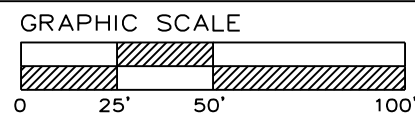
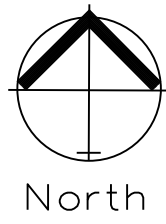
Sanitary Sewer General Layout
Construction Plans for:
WOODLAND OAKS
Lots 1 thru 42
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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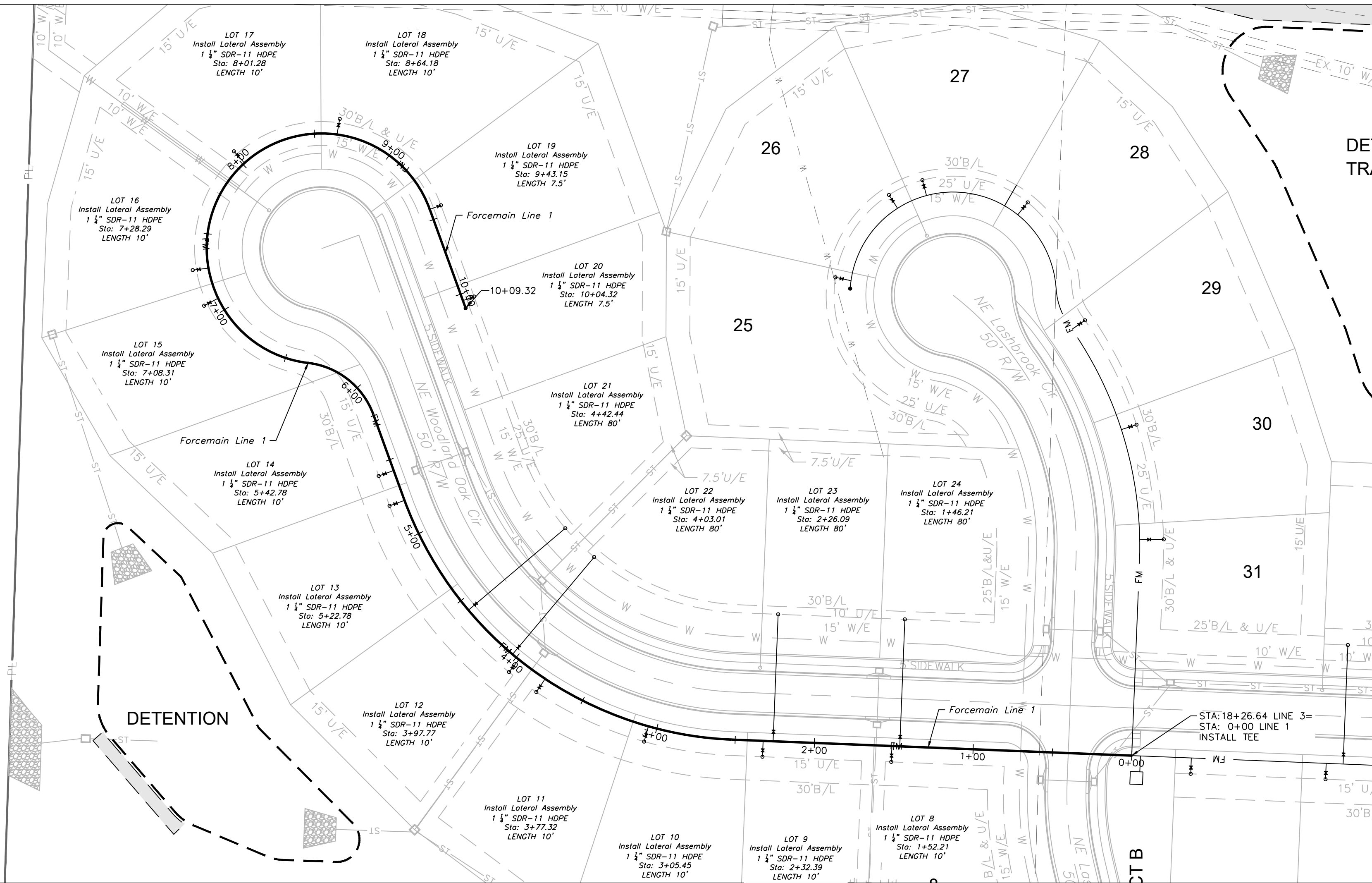
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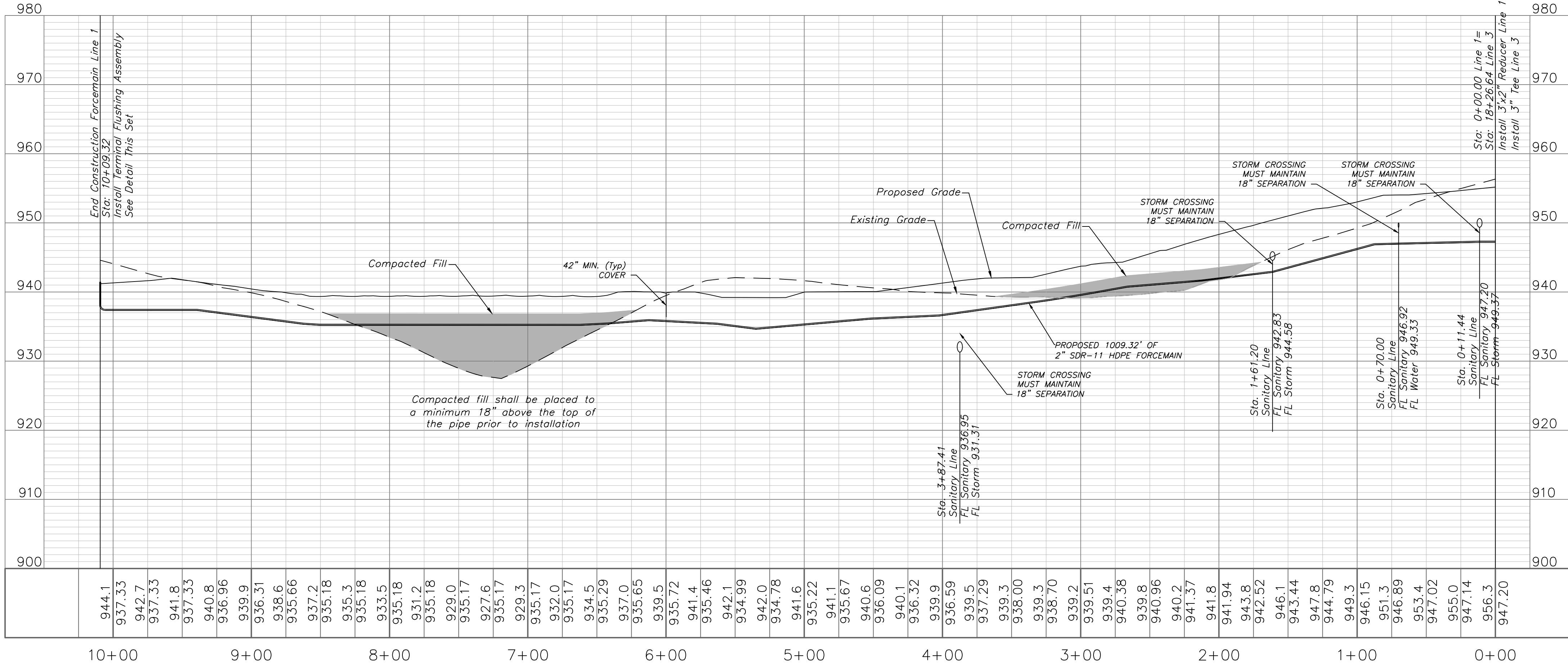
SANITARY PLAN & PROFILE

SCALE: 1" = 50'

NOTE:
ALL LOTS WILL BE SERVED BY A LOW PRESSURE SEWER (LPS) SYSTEM AND WILL REQUIRE GRINDER PUMPS.



FORCEMAIN LINE 1

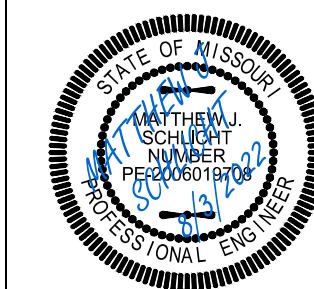


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Sanitary Plan and Profile
Construction Plans for:
WOODLAND OAKS
Lots 1 thru 42
Lee's Summit, Jackson County, Missouri



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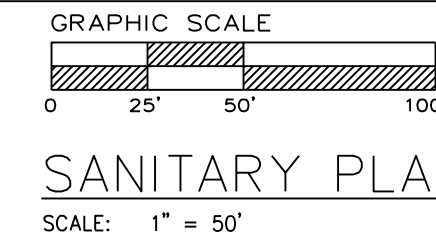
REVISIONS
REV. 5/5/2021
REV. 5/26/2021
REV. 6/22/2021
REV. 6/29/2021

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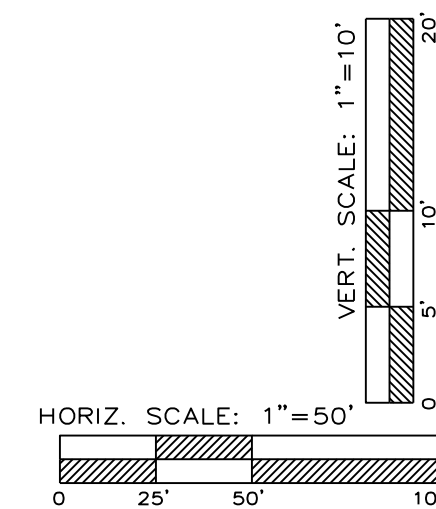
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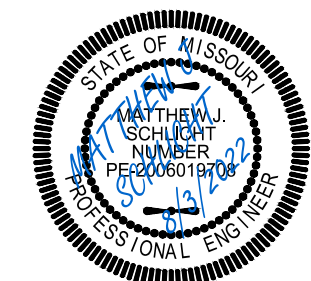


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Construction Plans for:
WOODLAND OAKS

Lots 1 thru 42
Lee's Summit, Jackson County, Missouri



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	REV. 5/5/2021
2	REV. 5/26/2021
3	REV. 6/22/2021
4	REV. 6/29/2021

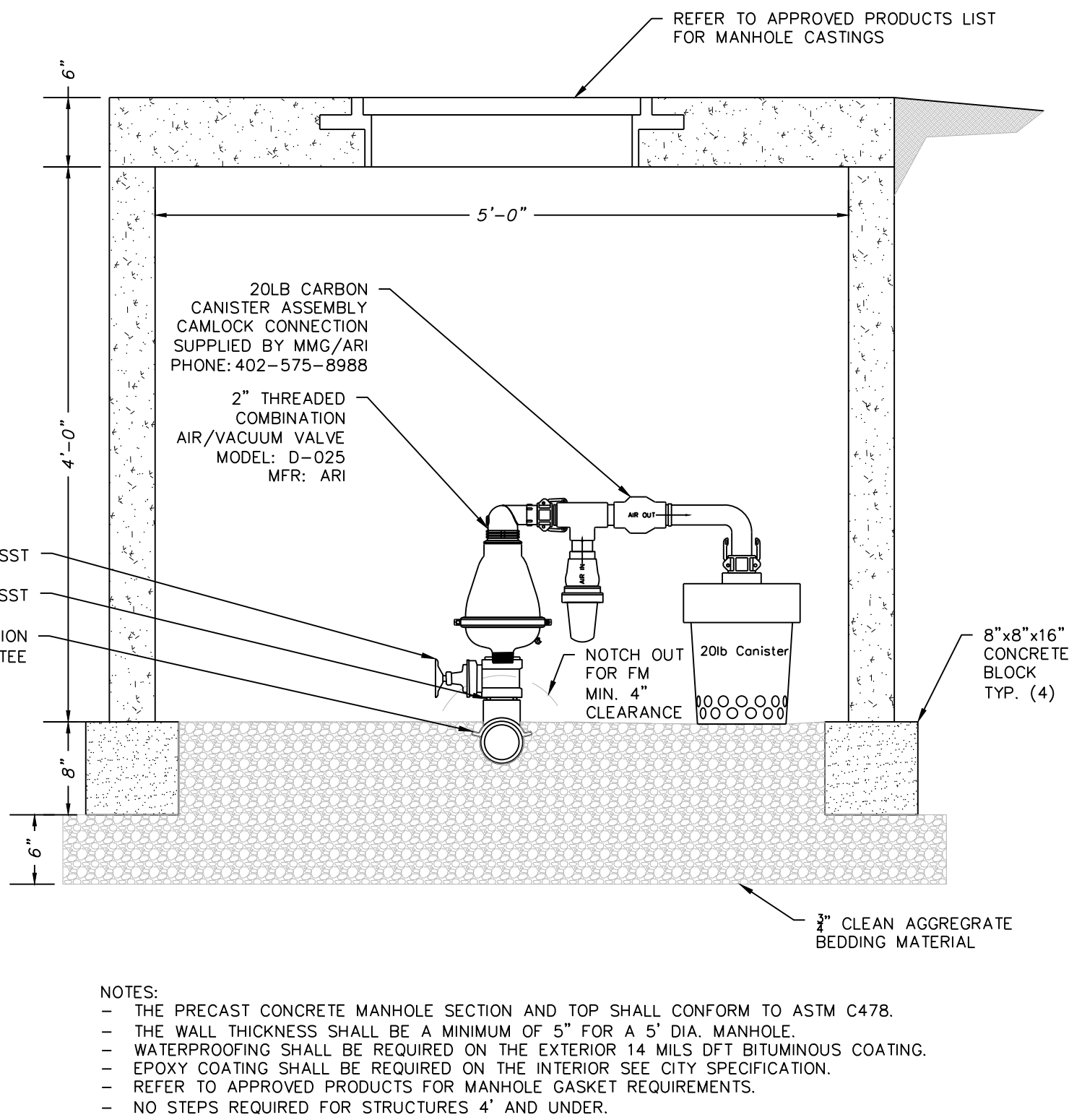
ODOR/CORROSION CONTROL SYSTEM SPECIFICATION:

- THE ODOR/CORROSION CONTROL SYSTEM SHALL BE CAPABLE OF BOTH SULFIDE PREVENTION AND REMOVAL. THE SYSTEM SHALL BE LIQUID CHEMICAL FEED TYPE. THE CHEMICAL EMPLOYED SHALL BE NITRATE SALTS I.E. BIOXIDE.
- THE SYSTEM SIZING WAS BASED ON THE MORE CONSERVATIVE SULFIDE PREVENTION THEORY. A DISSOLVED SULFIDES CONCENTRATION OF 2 MG/L WAS ASSUMED IN THE SYSTEM FOR STANDARD DOMESTIC WASTEWATER. THE AVERAGE DAILY FLOW AT BUILD-OUT IN THE SYSTEM IS CALCULATED TO BE 0.016 MGD. A STOICHIOMETRIC BIOXIDE DOSE OF 0.57 GALLONS PER DAY WAS CALCULATED WHICH EQUATES TO 1.50 ML/MIN. THE DOSAGE PUMP SELECTED MUST HAVE CAPACITY TO PUMP 10 TIMES THE CALCULATED STOICHIOMETRIC AMOUNT.
- THE SYSTEM SHALL CONSIST OF A BULK STORAGE TANK, (2) CHEMICAL FEED PUMP, ELECTRICAL CONTROL PANEL WITH INTEGRAL SYSTEM CONTROLS AND ALL OTHER NECESSARY PIPE, FITTINGS AND APPURTENANCES NECESSARY TO PROVIDE A WORKING CHEMICAL FEED SYSTEM. POWER TO THE SITE 120/1/60 SHALL BE SUPPLIED BY OTHERS.
- OPERATION: THE SYSTEM SHALL UTILIZE DUPLEX PUMPS TO PROVIDE FOR VARIABLE DOSING WHILE PROVIDING FIRM CAPACITY IN EVENT OF PUMP FAILURE. EACH PUMP SHALL BE ENERGIZED/DE-ENERGIZED BY A REPEATABLE TIMER CONNECTED TO A DUPLEX RECEPTACLE. PUMP DOSAGE RATES ALONG WITH ON/OFF TIMES SHALL BE MANUALLY SET.
- ALL EQUIPMENT MUST BE FURNISHED BY A SINGLE SUPPLIER WHO SHALL BE RESPONSIBLE FOR THE COORDINATION AND PERFORMANCE OF THE SYSTEM.
- DELIVERY OF PRODUCTS SHALL BE COORDINATED WITH THE CONTRACTOR. FABRICATED ASSEMBLIES SHALL BE SHIP ASSEMBLED AND PROPERLY MATCH MARKED FOR EASE OF FIELD ERECTION. THE EQUIPMENT SUPPLIER SHALL PROVIDE COMPLETE ASSEMBLY INSTRUCTIONS TO THE CONTRACTOR.
- THE EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING THE FIRST FULL LOAD OF BIOXIDE FOR THE SYSTEM WHICH WILL AIDE IN START-UP AND TRAINING OF THE SYSTEM. THE EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR SUCCESSFUL START-UP OF THE SYSTEM. ACCEPTANCE OF THE SYSTEM SHALL BE CONTINGENT UPON SUCCESSFUL START-UP, PROVIDING THE REQUIRED TRAINING, AND PROVIDING COMPLETE OPERATION AND MAINTENANCE MANUALS TO THE CITY IN BOTH HARD COPY AND PDF FORM.
- EQUIPMENT:
 - CHEMICAL STORAGE TANK
 - MATERIAL: ROTATIONALLY MOLDED CROSS-LINKED HIGH-DENSITY POLYETHYLENE (HDXLPE).
 - CAPACITY: 300 US GALLONS SINGLE WALL.
 - MFR TO PROVIDE ANCHORAGE SYSTEM TO WITHSTAND SUSTAINED 150 MPH WINDS. ANCHORAGE TO CONCRETE PAD BY OTHERS.
 - FITTINGS SHALL BE LOCATED ON TANK TOP OR DOME.
 - MINIMUM 16" DIAMETER MANWAY WITH LEVER LOCKING COVER.
 - PLASTIC FITTINGS SHALL BE "BULK HEAD" OR "TWO-FLANGE" STYLE.
 - FLANGE BOLTED FITTINGS SHALL CONFORM TO ANSI/ASME B-16.5 FOR 150 PSI PRESSURE CLASS.
 - 2" PVC FILL BULKHEAD FITTING W/ EPDM GASKET & PVC FILL LINE ASSEMBLY, PE BRACKET W/ 316 SST HARDWARE AND EPDM GASKETS. FILL LINE QUICK DISCONNECT COUPLING MAX. 48" ABOVE BOTTOM OF TANK. FILL LINE TO INCLUDE 2" BALL VALVE AND DUST CAP.
 - 3" MUSHROOM VENT W/ EPDM GASKET & POLY SCREEN.
 - 2" PVC SUCTION BULKHEAD FITTING W/ EPDM GASKET & PVC DROP TUBE ASSEMBLY W/ 316 SST HARDWARE AND EPDM GASKETS.
 - CHEMICAL FEED SYSTEM
 - THE OPERATION OF THE CHEMICAL FEED SYSTEM SHALL BE CONTROLLED FROM THE CONTROL PANEL. ALL EQUIPMENT CONTROL SWITCHES, PILOT LIGHTS, CONTROLLERS, ETC. AND THE CHEMICAL FEED PUMPS SHALL BE HOUSED IN THIS PANEL.
 - THE CONTROL PANEL SHALL BE CONSTRUCTED OF 316 SST AND BE RATED NEMA 4X.
 - THE CONTROL PANEL SHALL CONTAIN THE FOLLOWING: TIMER CONTROL SYSTEM, (2) WATSON MARLOW ODOS 20 PUMP (0.1 - 300 ml/min), (2) DUPLEX PUMP RECEPTACLE, COOLING FAN, CONDENSATION HEATER, (3) CONTROL RELAYS.
 - THE SYSTEM SHALL PROVIDE THE FOLLOWING OUTPUTS: RUN STATUS, ALARM, ANALOG OUT 4-20 mA, GROUND, SUPPLY 5V+.
 - PIPING AND APPURTENANCES
 - ALL SUCTION AND DISCHARGE PIPING SHALL BE 3/4" SCHEDULE 80 PVC. ALL VALVES FITTINGS AND CONNECTORS SHALL BE SCHEDULE 80 PVC.
 - ALL FILL LINE PIPING SHALL BE 2" SCHEDULE 80 PVC. ALL FILL LINE VALVES FITTINGS AND CONNECTORS SHALL BE SCHEDULE 80 PVC.
 - FILL LINE SHALL HAVE A 2" SST MALE CAMLOCK WITH A 2" PLASTIC FEMALE CAMLOCK CAP.
 - A WYE STRAINER SHALL BE INSTALLED ON THE SUCTION LINE.
 - FIELD TESTS: IF REQUIRED, THE SUPPLIER SHALL MAKE ANY CHANGES TO THE SYSTEM, AT THEIR OWN EXPENSE, THAT MAY BE NECESSARY TO ASSURE SATISFACTORY AND EFFICIENT OPERATION OF THIS SYSTEM.

WARRANTY: THE SUPPLIER SHALL GUARANTEE THAT THE SYSTEM WILL PERFORM AS DESCRIBED AND INTENDED IN THESE SPECIFICATIONS. THE SUPPLIER SHALL WARRANT THE SYSTEM, COMPLETE, TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWELVE (12) MONTHS FROM ACCEPTANCE. THE SUPPLIER SHALL REPAIR OR PROVIDE REPLACEMENT FOR ANY DEFECTIVE COMPONENTS UNDER THIS WARRANTY. IN ADDITION, THE CHEMICAL STORAGE TANK SHALL BE WARRANTED FOR A PERIOD OF FIVE (5) YEARS FROM WARRANTY START DATE.

ODOR/CORROSION CONTROL SYSTEM SITE/UTILITY NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- THE ODOR/CORROSION CONTROL SYSTEM SHALL BE LOCATED ON A REINFORCED CONCRETE FOUNDATION. THE CONCRETE FOUNDATION SHALL EXTEND A MINIMUM OF 18 INCHES PAST THE LIMITS OF THE CHEMICAL STORAGE TANK. COORDINATE FOUNDATION DIMENSIONS WITH THE EQUIPMENT SUPPLIER. THE CONCRETE FOUNDATION SHALL BE A MINIMUM OF 8" THICK, UTILIZING 4,000 PSI CONCRETE AND GRADE 60 REBAR. REBAR SHALL BE PLACED ON 12" CENTERS EACH DIRECTION. REBAR TO BE PLACED 3" ABOVE FINISH GRADE. SYSTEM TO BE PLACED AS SHOWN ON THE PLANS.
- THE EQUIPMENT FOUNDATION SHALL BE LEVEL WITH A MINIMUM 4 INCHES OF CLEAN GRAVEL PLACED ON A 12" DEEP PREPARED SUB-GRADE. GRADE ADJACENT AREA TO DRAIN AROUND EQUIPMENT FOUNDATION.
- ELECTRICAL: ONE 120 VAC, 60 HZ, 15 AMP SINGLE PHASE ELECTRICAL SERVICE SHALL BE PROVIDED.

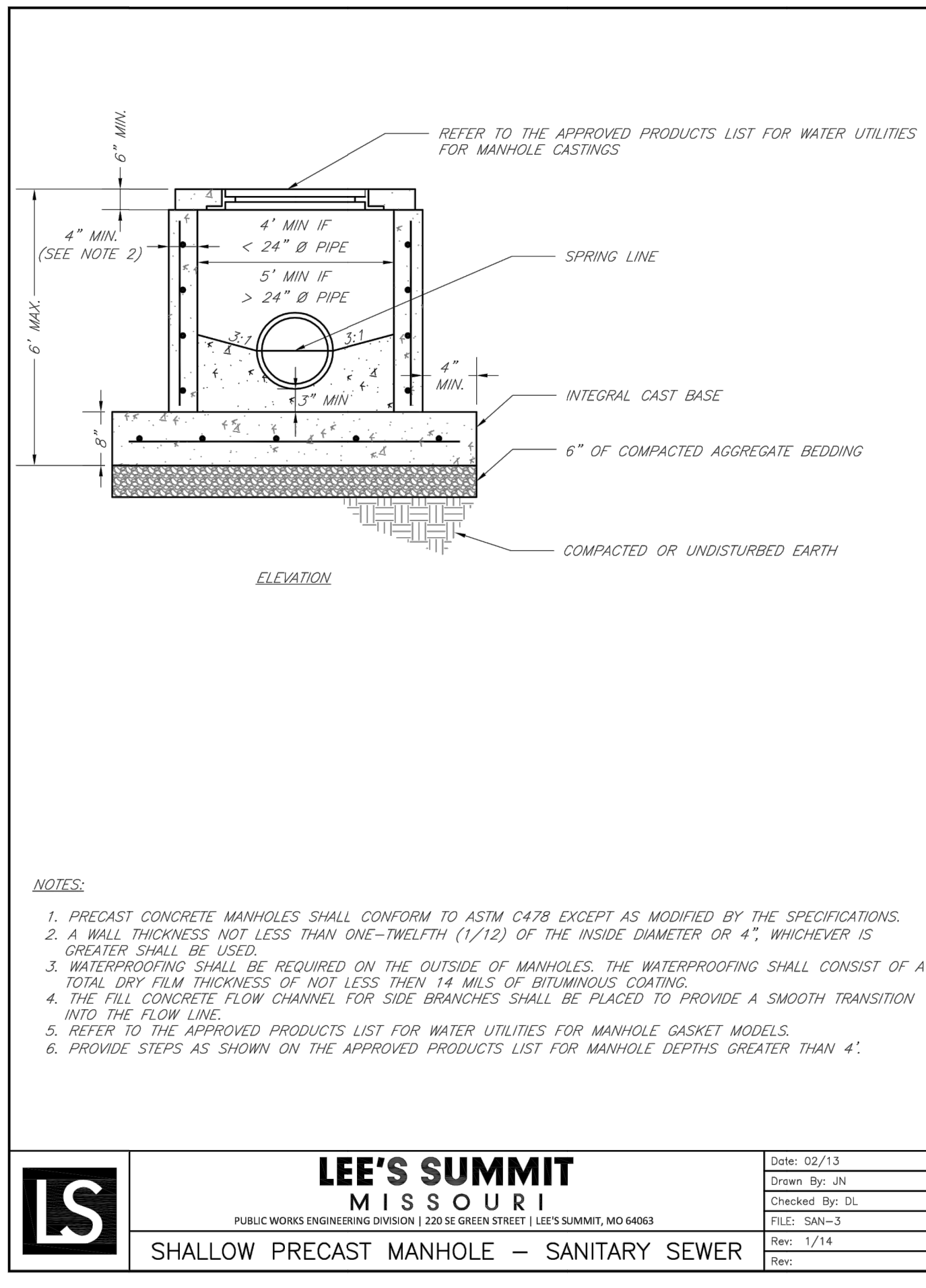


AIR RELEASE FOR SEWAGE

NOT TO SCALE

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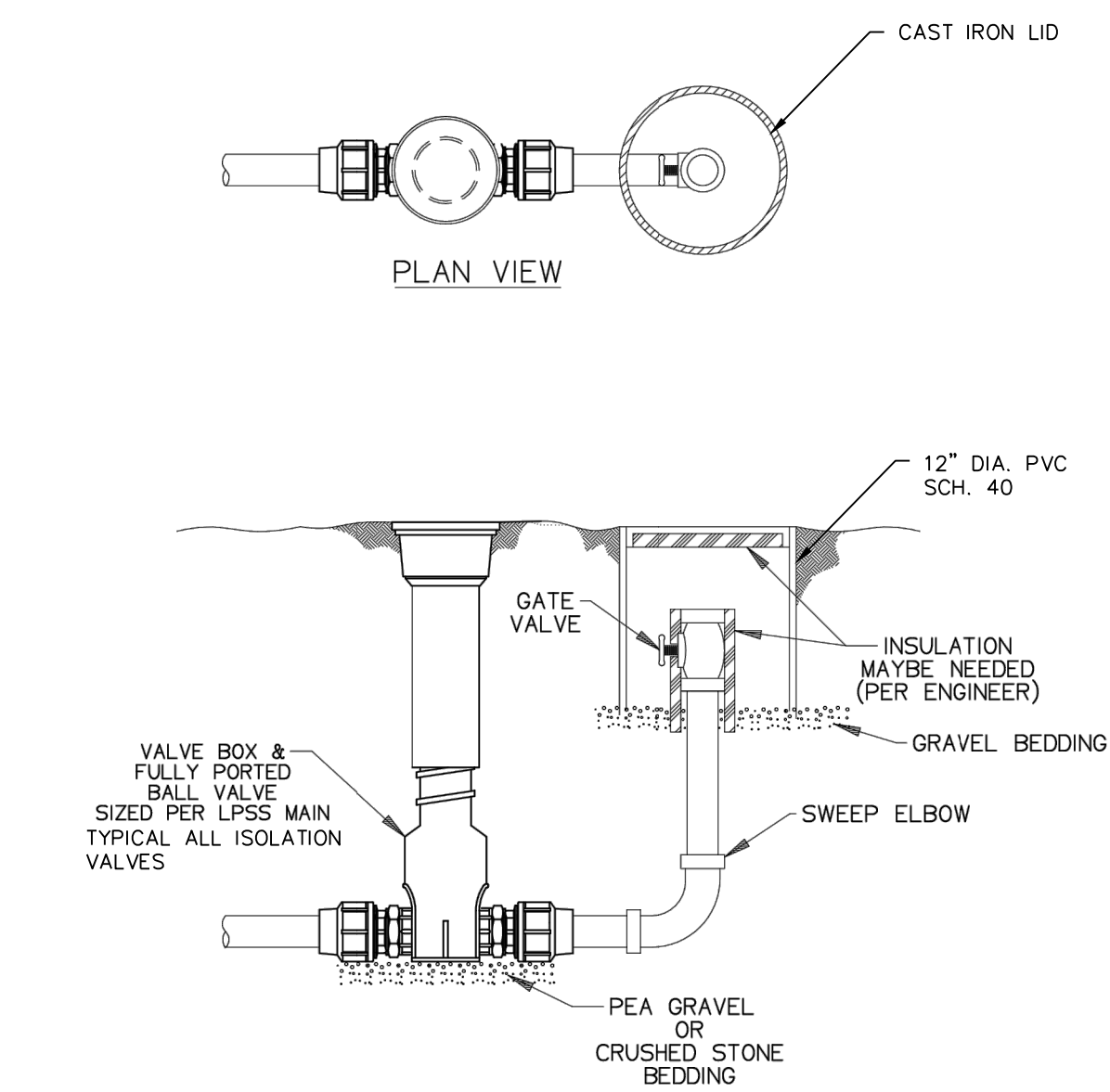
LS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION 1200 S. GREEN STREET | LEE'S SUMMIT, MO 64082

Date: 02/13
Drawn By: JN
Checked By: DL
File: SAN-3
Rev: 1/14
Rev:

SHALLOW PRECAST MANHOLE — SANITARY SEWER

environmentone
CORPORATION

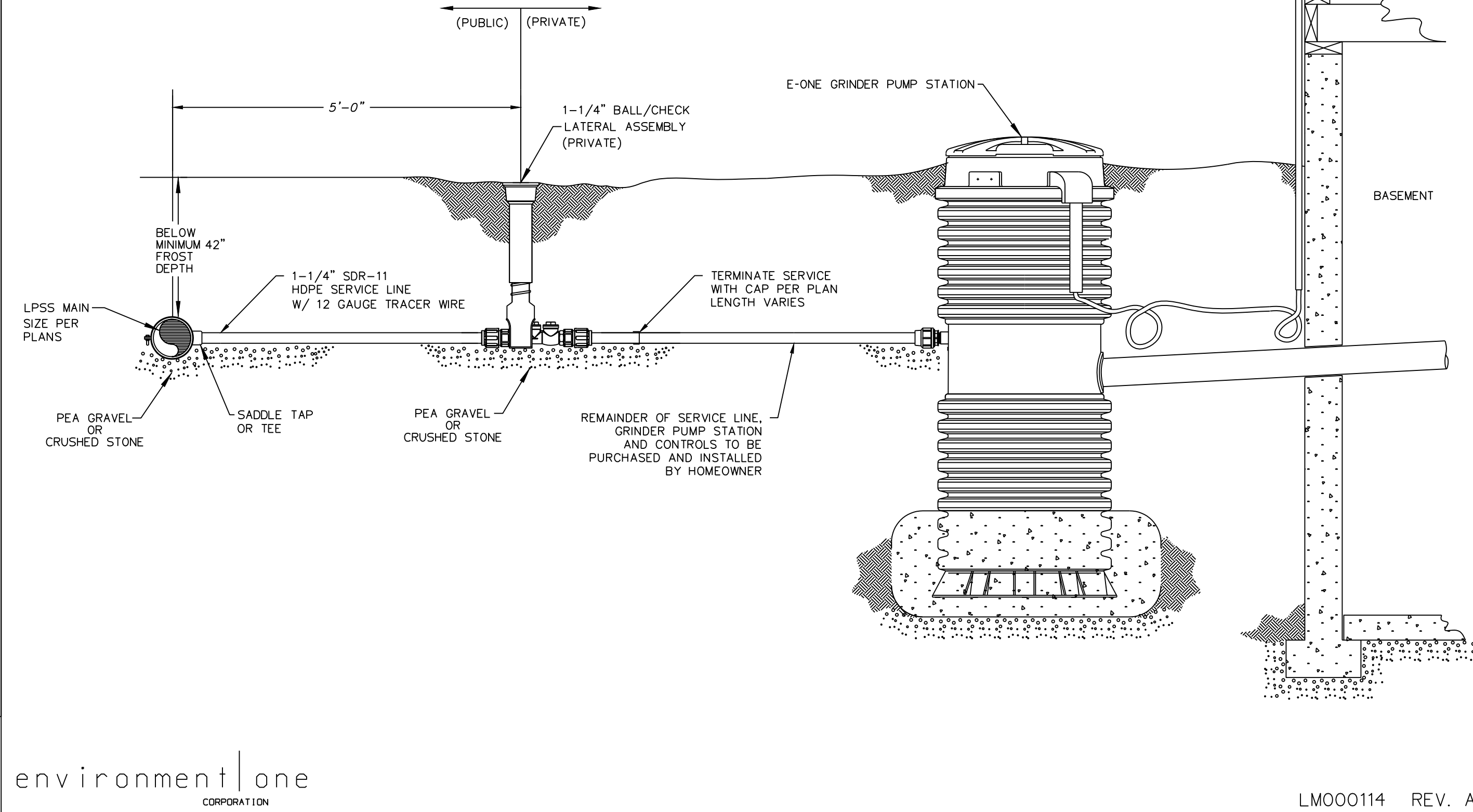


TYPICAL TERMINAL FLUSHING CONNECTION

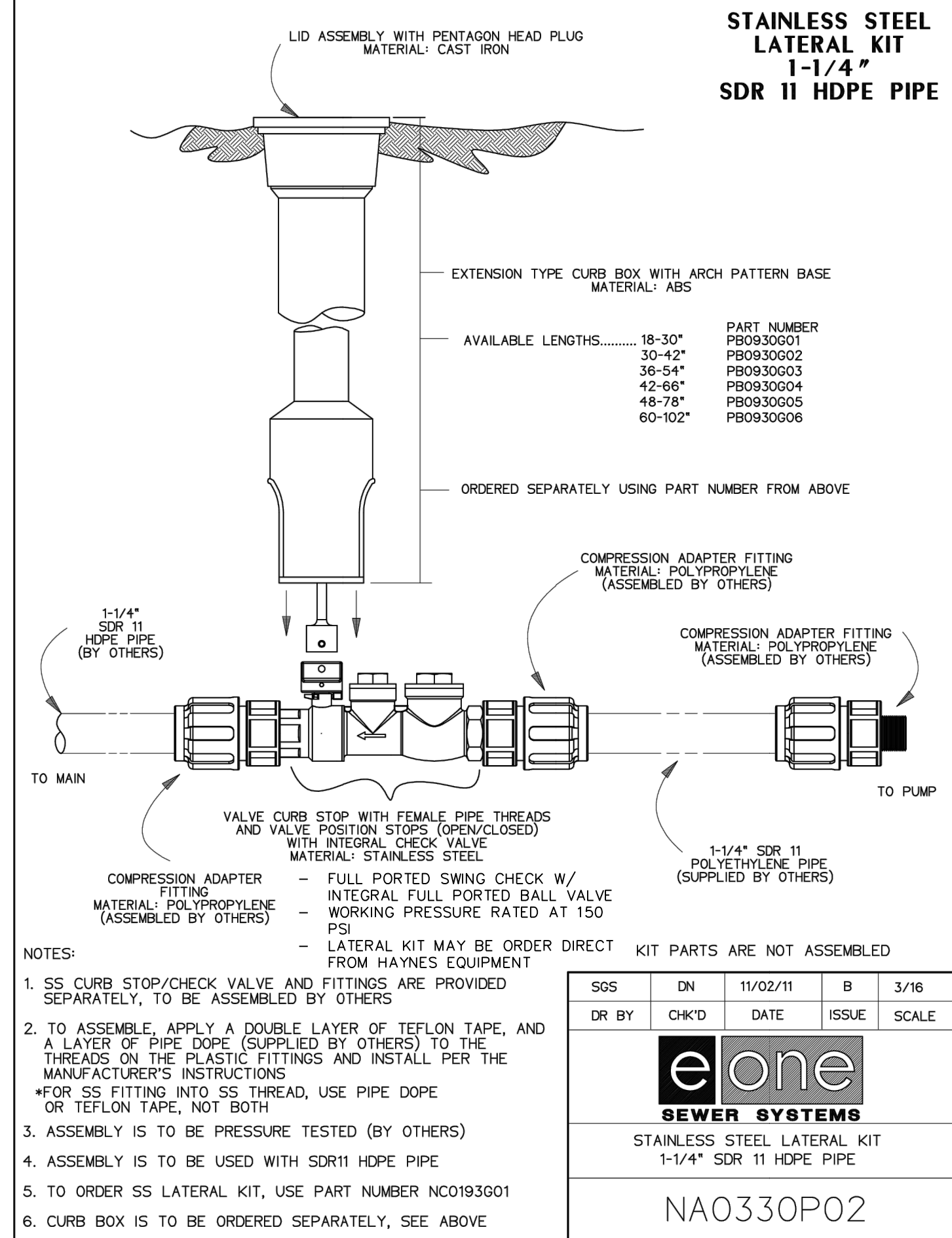
- GATE VALVE SPEC:
- INTEGRAL SEAT SOLID WEDGE
 - INSIDE SCREW & SCREWED BONNET
 - NON RISING STEM
 - PTFE INTERNAL PACKING
 - MATERIAL: 316 SST
 - 150 PSI WORKING PRESSURE
- BALL VALVE SPEC:
- FULL PORT
 - PTFE SEALS
 - MATERIAL: 316 SST
 - 150 PSI WORKING PRESSURE

SOS	DN	05-13-10	1	1/32
DR BY	CHK'D	DATE	ISSUE	SCALE
eone				
SEWER SYSTEMS				
TYPICAL TERMINAL FLUSHING CONNECTION				
ESD 10-0094				

TYPICAL LATERAL INSTALLATION



LM000114 REV. A



STAINLESS STEEL LATERAL KIT
1-1/4" SDR 11 HDPE PIPE

KIT PARTS ARE NOT ASSEMBLED				
SOS	DN	11/02/11	B	3/16
DR BY	CHK'D	DATE	ISSUE	SCALE
eone				
SEWER SYSTEMS				
STAINLESS STEEL LATERAL KIT				
1-1/4" SDR 11 HDPE PIPE				
NA0330P02				

ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS

50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration
Missouri
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Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
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Sanitary Details
Construction Plans for:
WOODLAND OAKS
Lots 1 thru 42
Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
NUMBER 01
PROFESSIONAL ENGINEER
EXPIRATION DATE 12/31/2024

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KS PE 19071
OK PE 25226
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REVISIONS
REV. 5/5/2021
REV. 5/26/2021
REV. 6/22/2021
REV. 6/29/2021

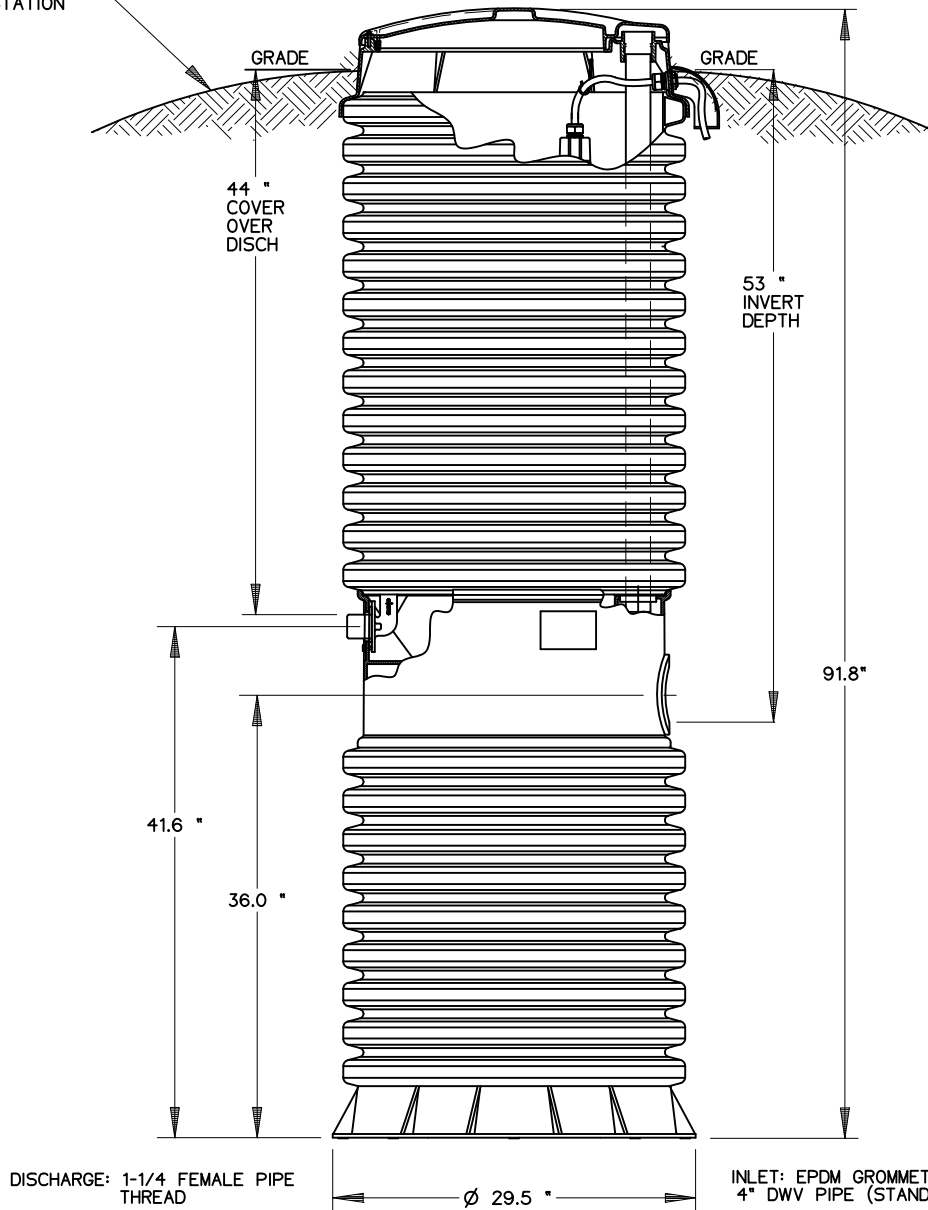
OPTIONS : ☐ **DH071-93**

(HARD WIRED
LEVEL CONTROLS)

☐ **DR071-93**

(WIRELESS
LEVEL CONTROLS)

GRADE MUST SLOPE
AWAY FROM STATION

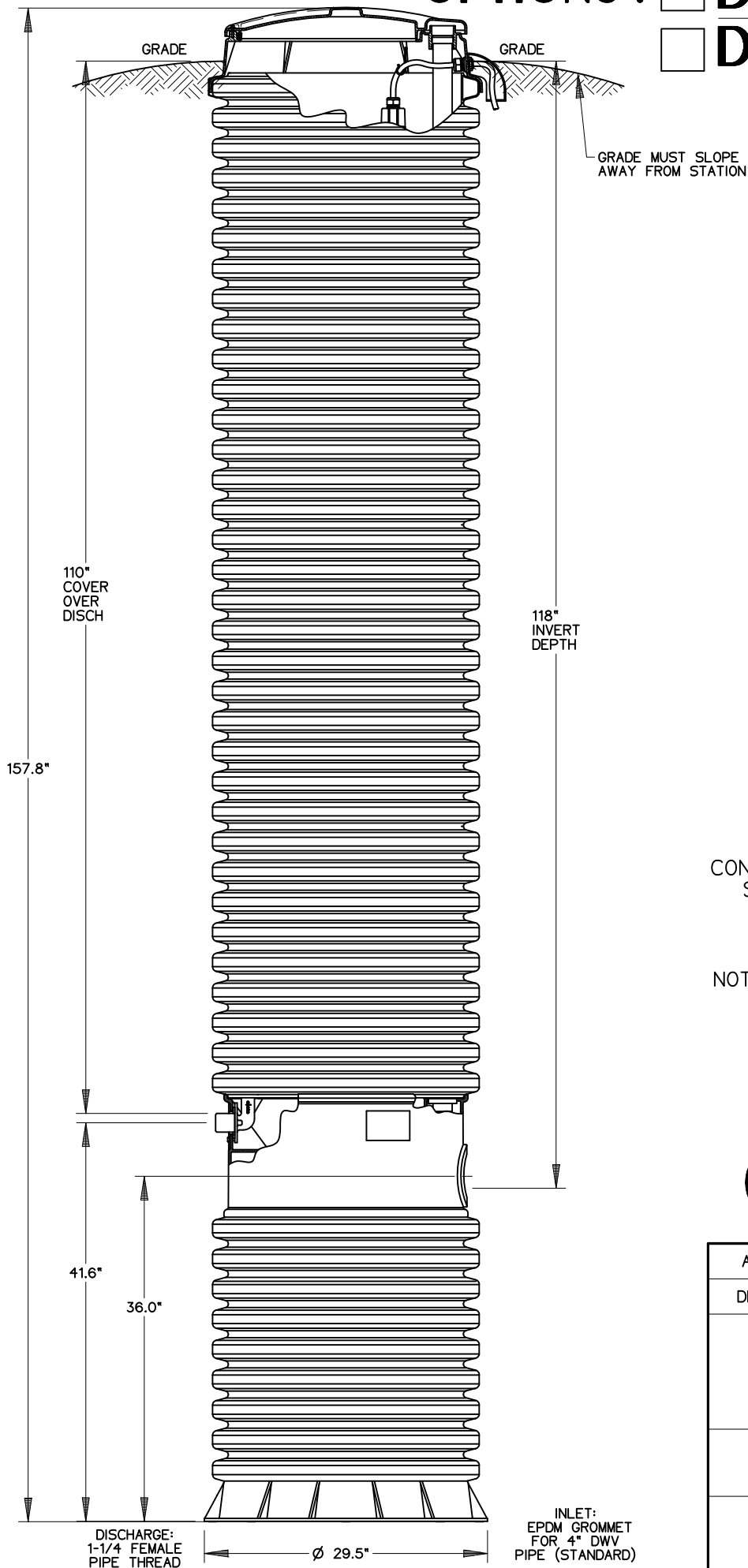


CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS
FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

AD	CAH	07/12/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE
MODEL DH071-93 / DR071-93				
NA0050P06				

OPTIONS : ☐ **DH071-158** (HARD WIRED LEVEL CONTROLS)
☐ **DR071-158** (WIRELESS LEVEL CONTROLS)



CONCRETE BALLAST MAY BE REQUIRED
 SEE INSTALLATION INSTRUCTIONS
 FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY



AD	CAH	07/13/07	C	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE
MODEL DH071-158 / DR071-158				
NA0050P09				

E|ONE SPD PUMP PERFORMANCE CURVE

GRINDER PUMP, 1HP, 1725 RPM

