ASPHALT PAVEMENT - PROPOSED CONCRETE PAVEMENT - EXISTING **ASPHALT PAVEMENT - EXISTING** CONCRETE SIDEWALK - EXISTING CONCRETE SIDEWALK - PROPOSED CURB & GUTTER **CURB & GUTTER - EXISTING** TREELINE EXISTING LOT AND R/W LINES EXISTING PLAT LINES —— P/L —— PROPERTY LINES

CO

G/E

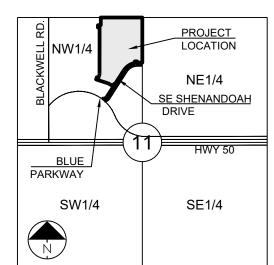
U/E

---- SANITARY SEWER MAIN - EXIST. —— STO—— STORM SEWER STORM SEWER - EXISTING ---- CATV<sub>x</sub> ---- CABLE TV - EXISTING FIBER OPTIC CABLE - EXISTING ——Tx—— TELEPHONE LINE - EXIST. —— E<sub>v</sub> — ELECTRIC LINE - EXISTING ----- OHP<sub>x</sub> ----- OVERHEAD POWER LINE - EXIST ----- UGE<sub>x</sub> ----- UNDERGROUND ELECTRIC - EX. GAS LINE - EXISTING

——— SANITARY SEWER MAIN

WATERLINE - EXISTING LIGHT - EXISTING **EXISTING MANHOLE** CLEANOUT EXISTING SANITARY MANHOLE PROPOSED SANITARY MANHOLE

EXISTING AREA INLET EXISTING CURB INLET EXISTING GRATE INLET **EXISTING JUNCTION BOX** EXISTING STORM MANHOLE



**LOCATION MAP** 

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)

(816) 399-0663brent.jones@spireenergy.com

(816) 607-2186 SPIRE Brent Jones 3025 SE Clover Drive

**EVERGY** Philip Ingram 1300 SE Hamblin Road Lee's Summit, MO 64081

Lee's Summit, MO 64082

Office: (816) 347-347-4339 philip.inghram@evergy.com CITY OF LEES SUMMIT PUBLIC WORKS

Dena Mezger 220 SE Green Street Lee's Summit, MO 64063 (816) 969-1800

Mark Manion or Marty Loper 500 E. 8th Street. Room 370 Kansas City, MO 64106 (816) 275-2341 or (816) 275-1550

COMCAST CABLE John Meadows 4700 Little Blue Parkway (816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES Mark Schaufler 1200 SE Hamblen Road Lee's Summit, MO 64081



811 or 1-800-344-7483 mo1call.com

SUMMARY OF QUANTITIES				
	ITEM	QUANTITY	UNITS	
1	INSTALL 8" PVC SDR-26	1,072	LF	
2	INSTALL 6" PVC SDR-26	1,957	LF	
3	INSTALL STD. 4' DIAMETER MANHOLE	5	EA	
4	EXTRA DEPTH IN MANHOLES	25	VF	
5	TRENCHING UNDER FUTURE STREET	2,016	LF	
6	INSTALL CLEANOUT	1	EA	
7	POST-CONSTRUCTION MANHOLE BARREL ADJUSTMENTS (EST.)	1	EA	
8	POST-CONSTRUCTION RING (3"-12") ADJUSTMENT (EST.)	1	EA	

# PUBLIC SANITARY SEWER PLANS **BLACKWELL RESERVE**

IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MO

ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS

ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE

LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE

THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND

THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL

ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING

INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE

PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN

ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND

CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED

THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED

12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION.

13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE

14. THE CONTRACTOR SHALL CONTACT DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1200 TO OBTAIN A

15. THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.

16. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO

THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

DEVELOPMENT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO

ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO

Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and

Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of

sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can

4. Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary

not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict. Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation. The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of

Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess

sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly disposed of offsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative.

subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best

characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the

nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their

All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is

information provided to the Project Engineer. The Engineer has the authority to identify and define the physical

any proposed utility main extension or service line or service connection to any existing main.

identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer. 2. The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the

EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING

WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.

BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

10. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE

11. ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK

APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES

CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE

CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF

MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES

ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.

NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.

WITHOUT PERMISSION OF THE OWNER. UNLESS SHOWN OTHERWISE.

CONTRACTOR, OR AS DIRECTED BY THE OWNER.

AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.

negligence of the contractor shall be repaired at the contractor's expense.

trenches by disposing it in areas as specified by the Project Engineer.

MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.

**GENERAL NOTES:** 

UTILITIES:

ADOPTED BY ORDINANCE 5813.

RELEASED FOR CONSTRUCTION

**Development Services Department** Lee's Summit, Missouri 09/21/2023

	Sheet List Table		
Sheet Number	Sheet Title		
1	COVER SHEET		
2	GENERAL LAYOUT		
3	GRADING PLAN		
4	TRIB MAP		
5	LINE A - PLAN & PROFILE		
6	DETAILS		
7	DETAILS		



PREPARED BY MARK ALLEN BREUER MUMBER PE-2009007268

SCHLAGEL & ASSOCIATES, P.A

SERVI WER

A N

BL

 $\Box$ 

## **APPROVED BY**

CITY ENGINEER APPROVED FOR ONE YEAR FROM THIS DATE

### OWNER/DEVELOPER:

**GRIFFIN RILEY PROPERTY GROUP** JAKE LOVELESS, VICE PRESIDENT 21 SE 29TH TERRACE LEE'S SUMMIT p 816-366-7900 JAKE@GRIFFINRILEY.COM

## PL2023050 PRSUBD20231351

### MO GRS BENCHMARK:

STATION NAME - JA-90

KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD. N:1001052.8503, E:2845604.8272

ELEV. 997.045

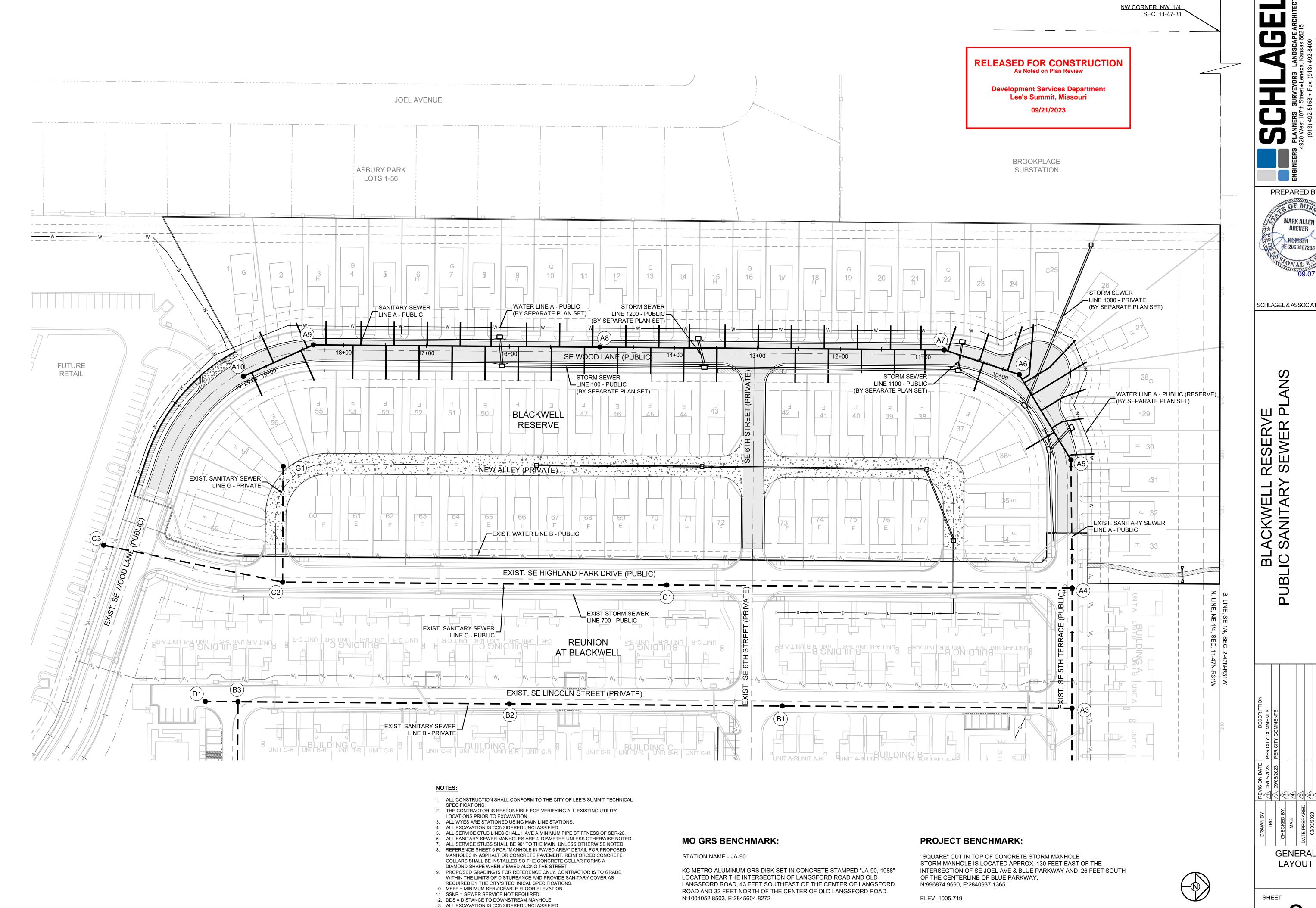
### **PROJECT BENCHMARK:**

"SQUARE" CUT IN TOP OF CONCRETE STORM MANHOLE STORM MANHOLE IS LOCATED APPROX. 130 FEET EAST OF THE INTERSECTION OF SE JOEL AVE & BLUE PARKWAY AND 26 FEET SOUTH OF THE CENTERLINE OF BLUE PARKWAY. N:996874.9690, E:2840937.1365

ELEV. 1005.719

**COVER SHEET** 

SHEET



ELEV. 997.045

14. REFERENCE SHEET 6 FOR EXCAVATION BENEATH PROPOSED STREETS DETAIL.

2"x4" A MINIMUM OF SIX (6) FEET IN LENGTH.

15. EVERY STUB LINE SHALL BE MARKED AT THE END OF THE PIPE WITH A VERTICAL

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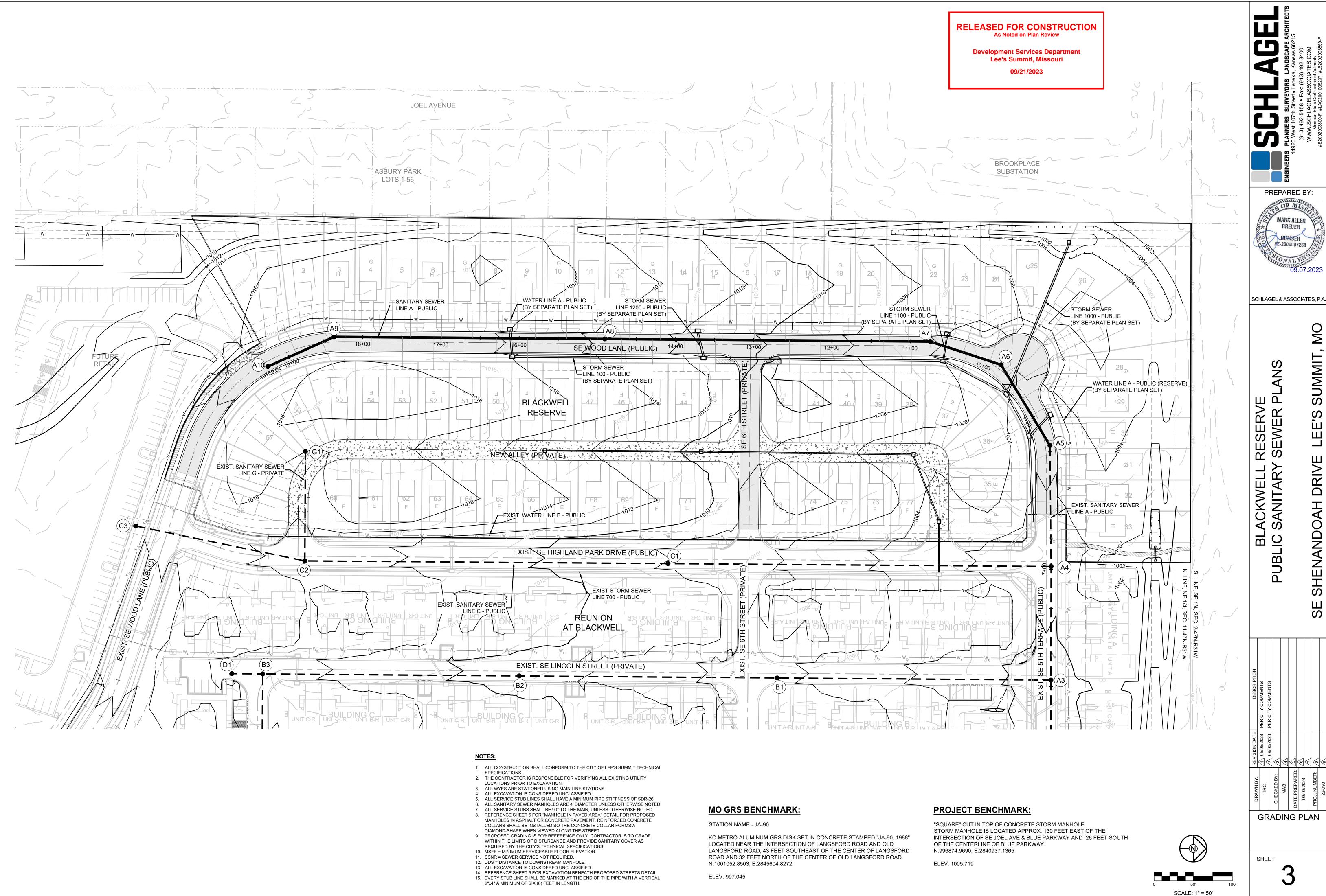
SCHLAGEL & ASSOCIATES, P.A.

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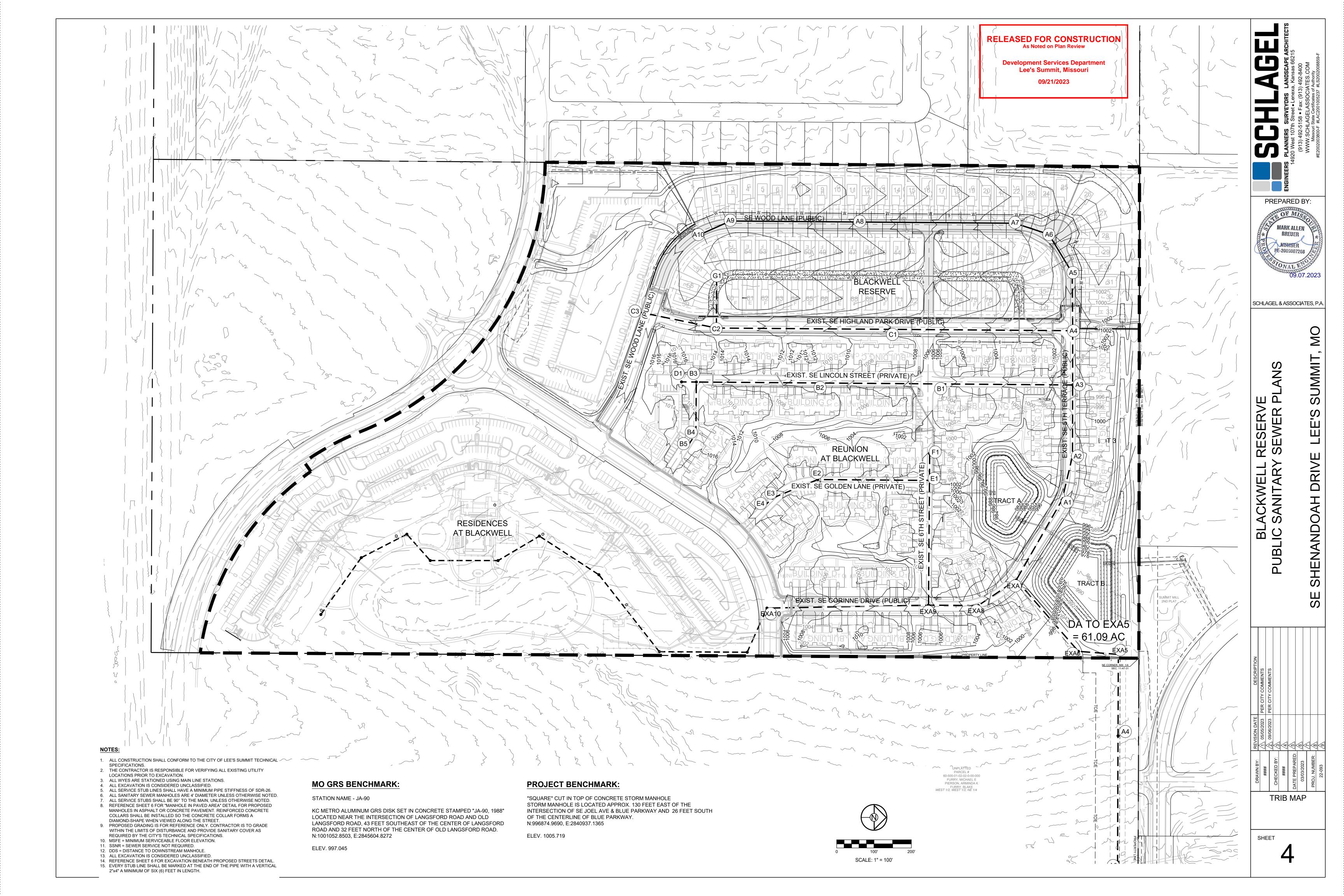
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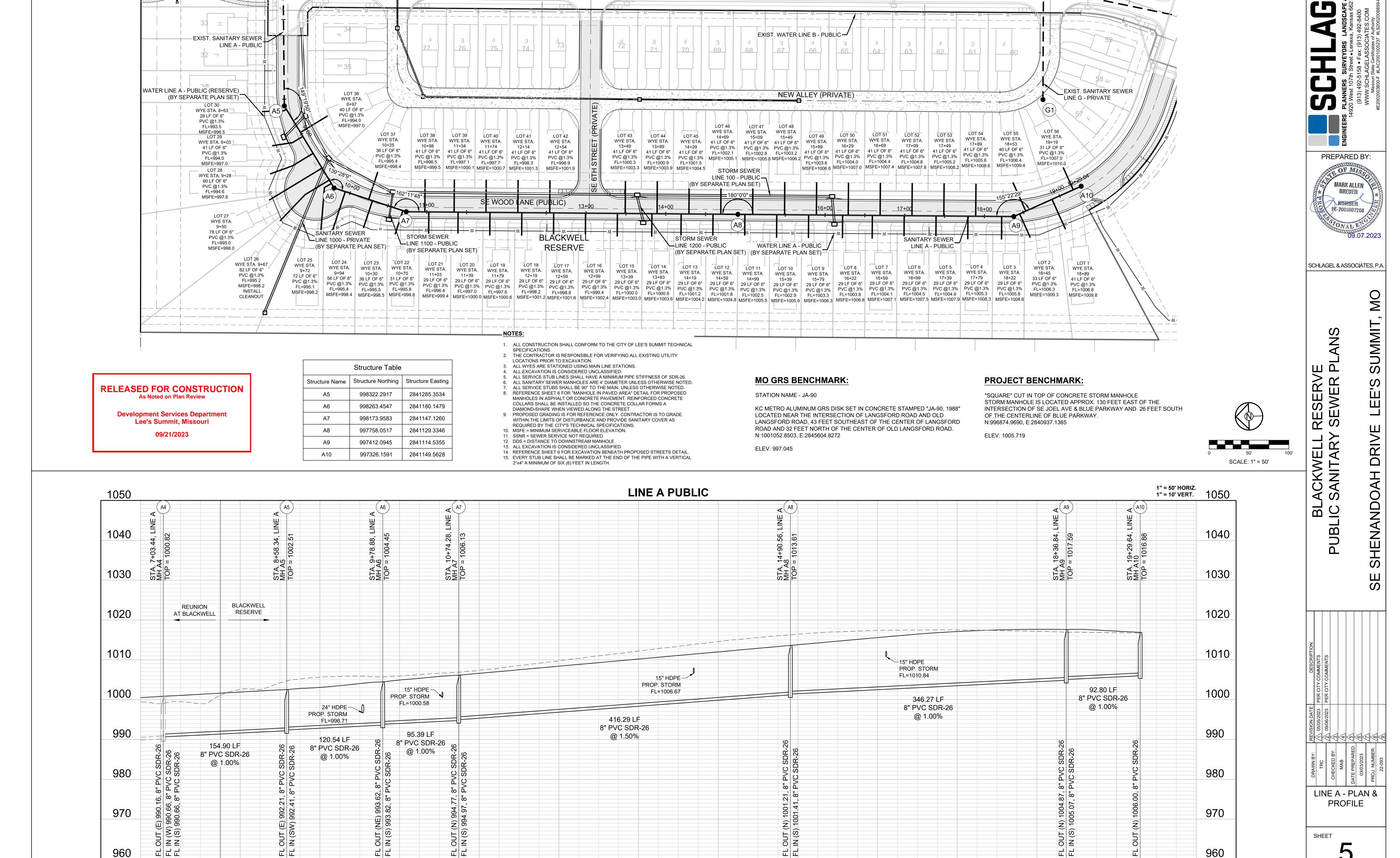
GENERAL

SCALE: 1" = 50'



PREPARED BY: MARK ALLEN MOMBER PE-2009007268





7+00

8+00

9+00

10+00

11+00

12+00

13+00

14+00

15+00

16+00

17+00

EXIST. SE HIGHLAND PARK DRIVE (PUBLIC)

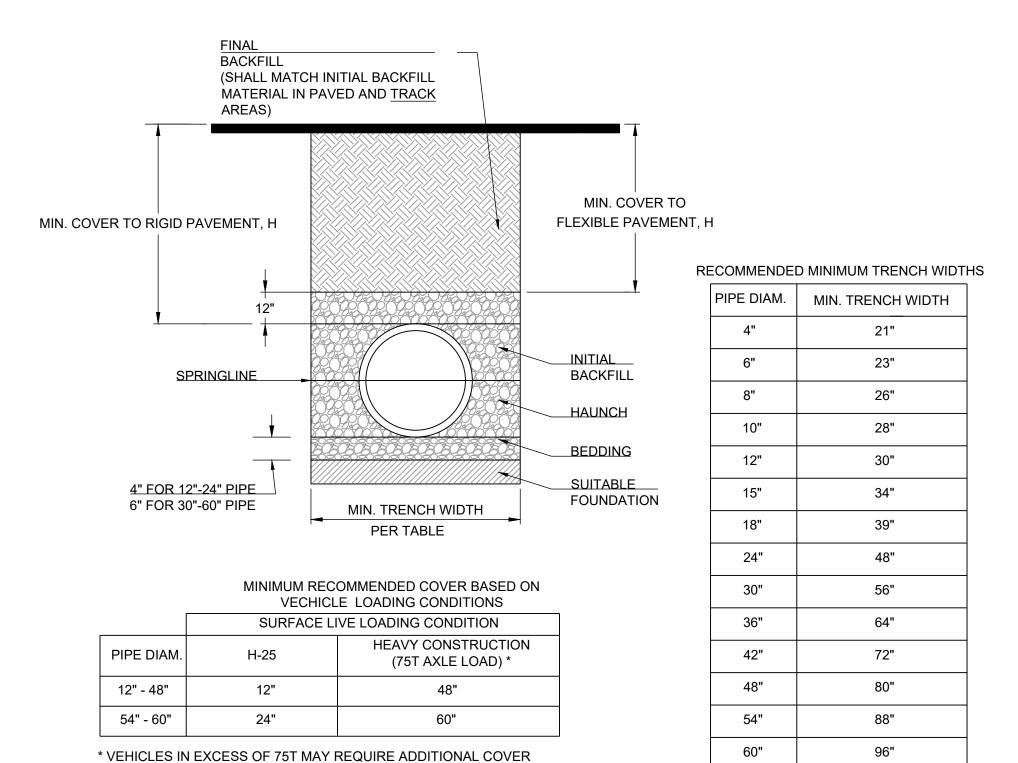
19+00

18+00

20+00

## RELEASED FOR CONSTRUCTION As Noted on Plan Review

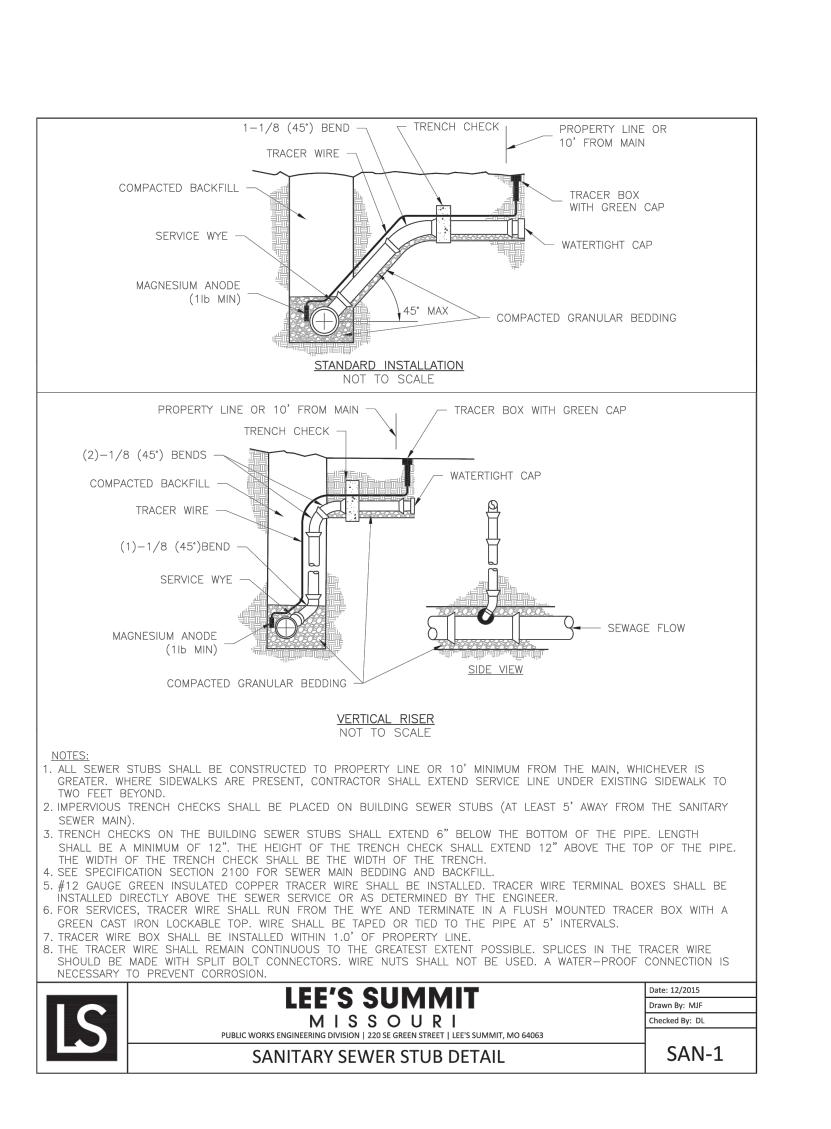
Development Services Department Lee's Summit, Missouri 09/21/2023

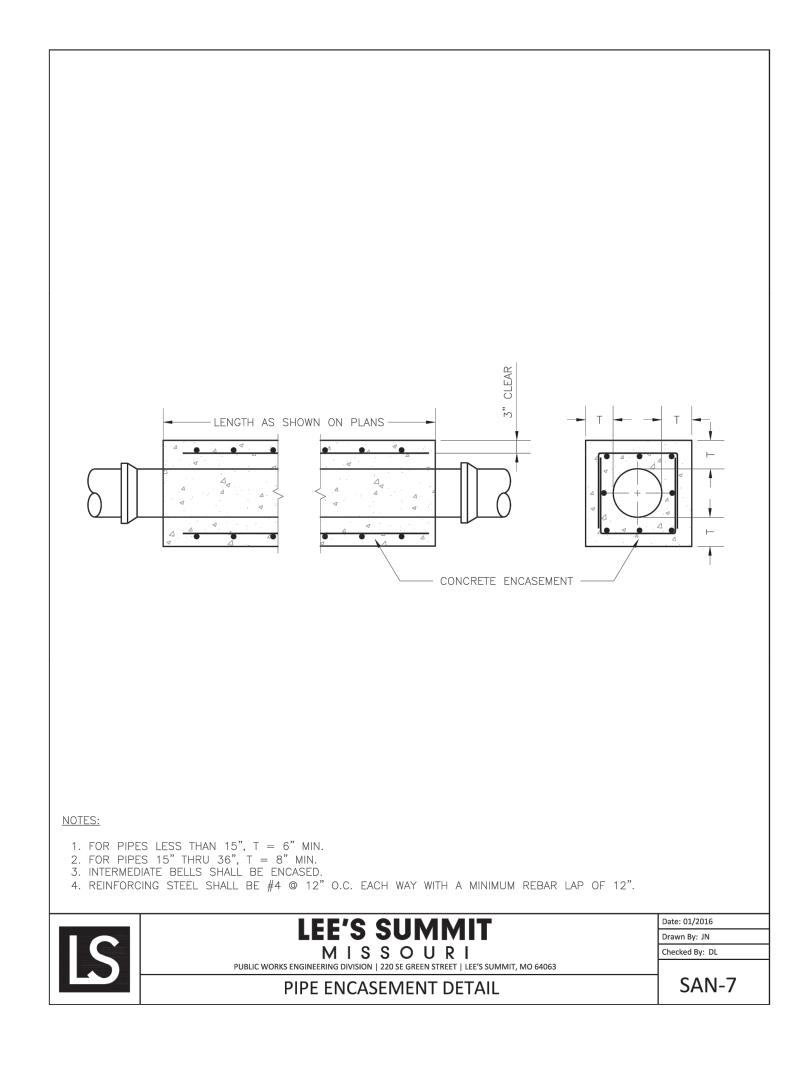


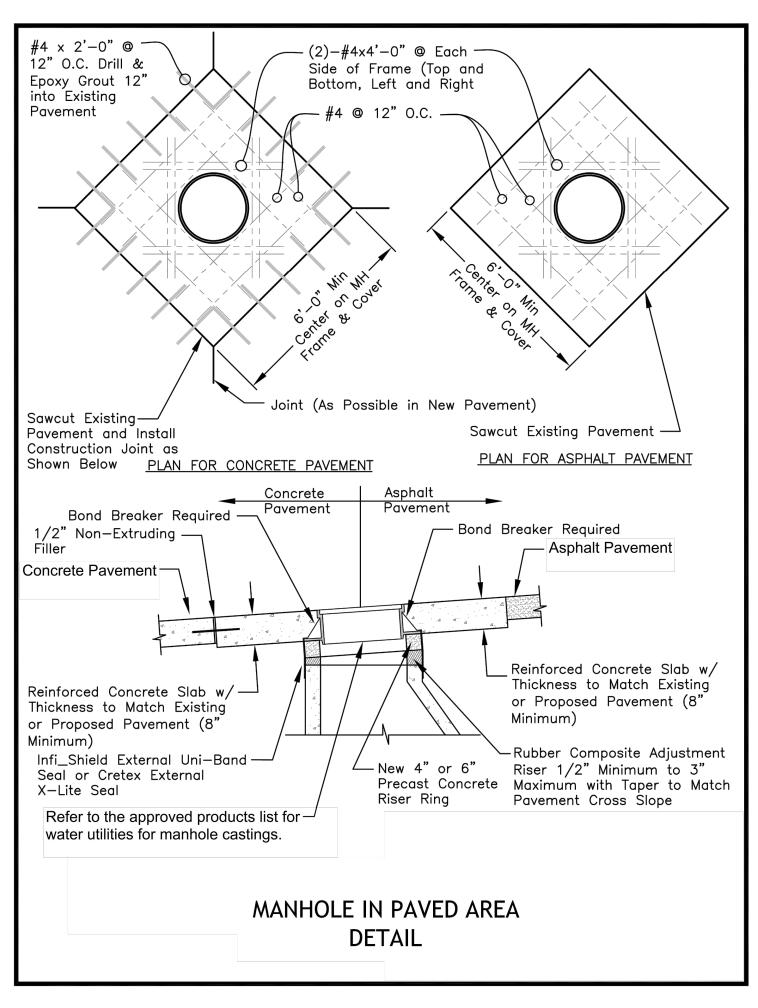
### NOTES:

- 1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- 3. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 4. <u>BEDDING:</u> SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- 5. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- 6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
- 7. <u>TESTING:</u> CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MATERIAL TESTING REQUIRED FOR THEIR WORK. THIS INCLUDES SCHEDULING OF TESTS, COORDINATING AND PROVIDING ACCESS TO SAMPLE LOCATIONS, AND SATISFYING ALL TEST RESULT REPORTING REQUIREMENTS.

PIPE EMBEDMENT
NOT TO SCALE









PREPARED BY:

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MARK ALLEN

BREUER

MUMBER

PE-2009007268

09.07.2023

SCHLAGEL & ASSOCIATES, P.A.

SEWER PLANS

BLACKWELL RESEF

**HENAND** 

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DETAILS

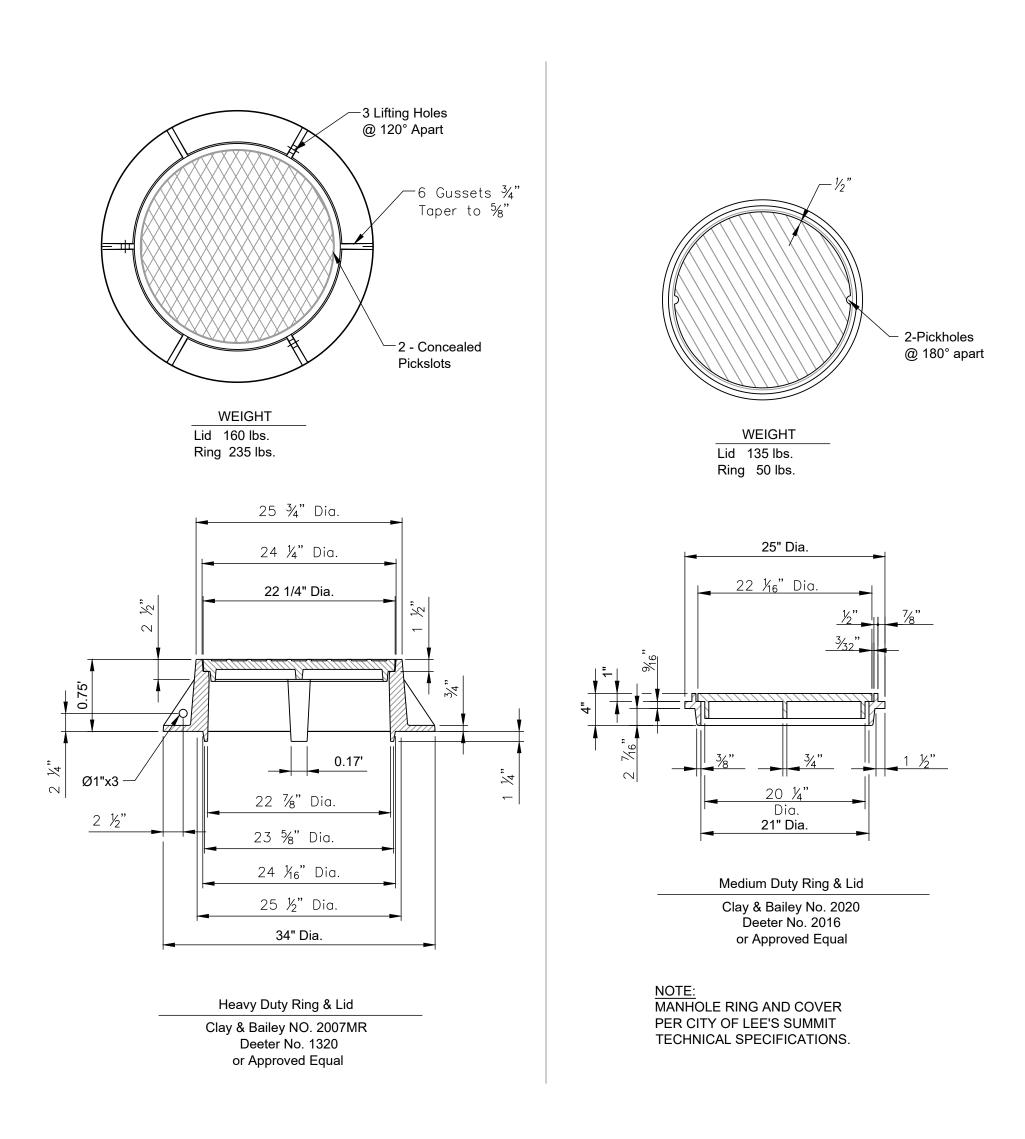
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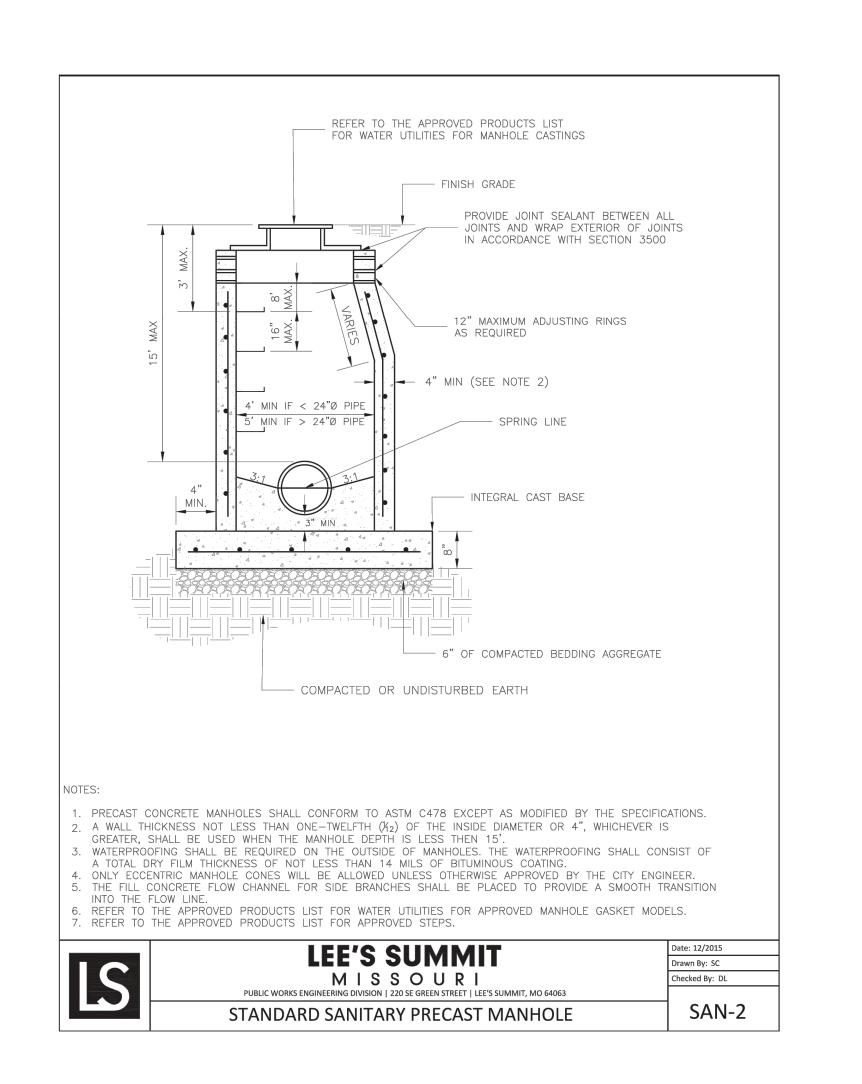
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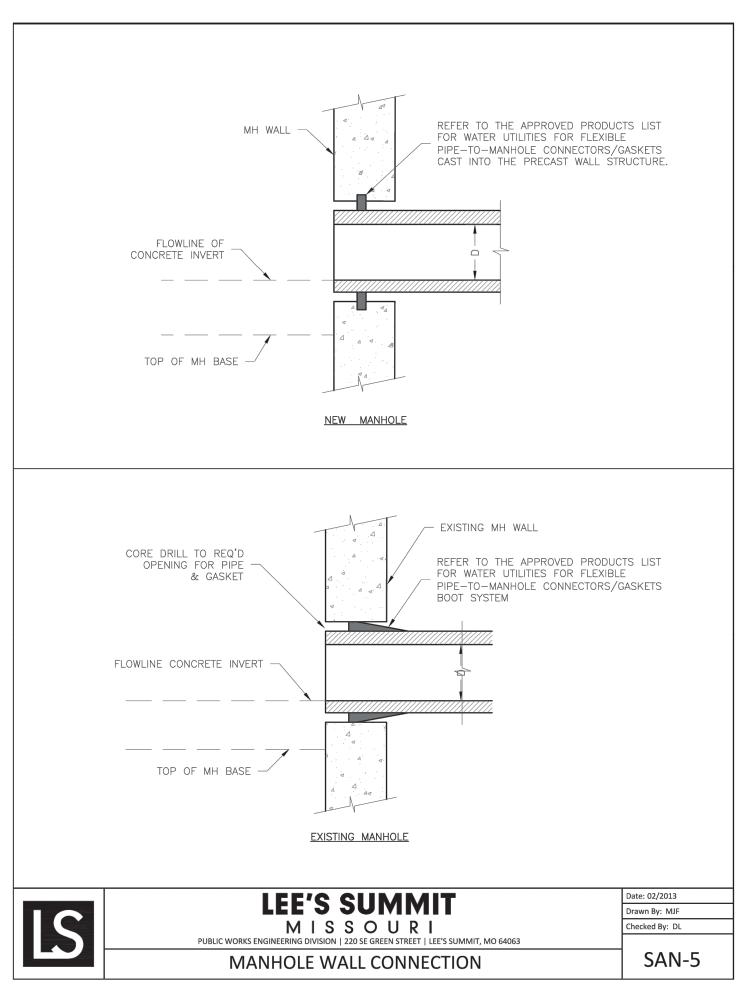
6

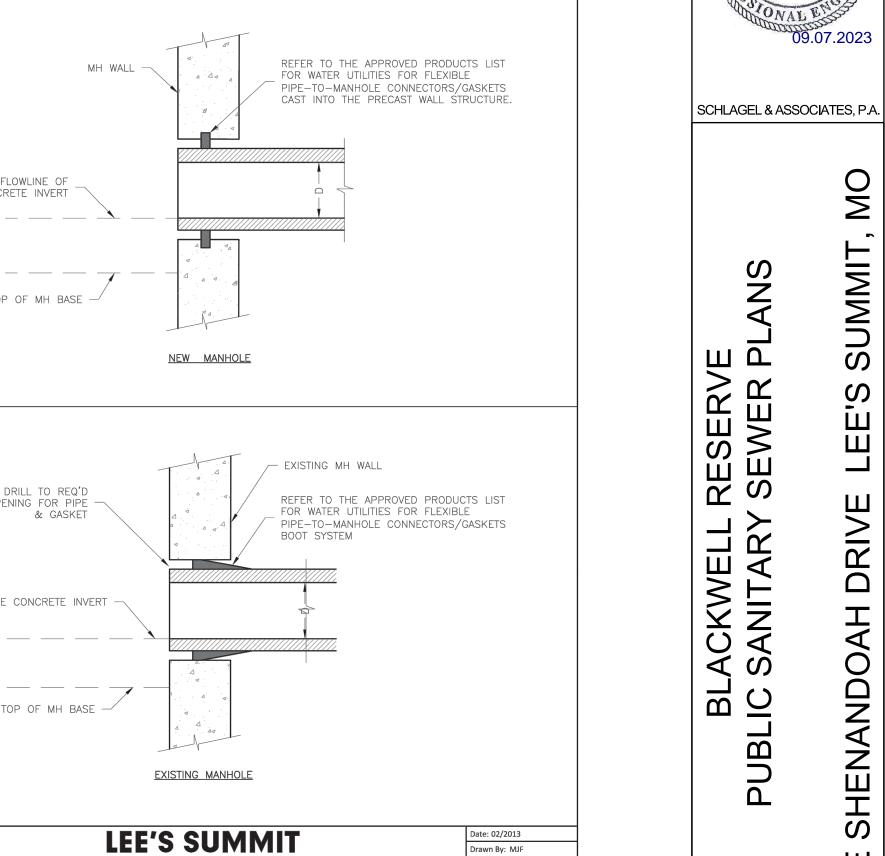


**Development Services Department** Lee's Summit, Missouri 09/21/2023









MANHOLE RING AND LID DETAILS NOT TO SCALE

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MUMBER PE-2009007268

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DETAILS

SHEET