EXISTING MANHOLE

EXISTING AREA INLET EXISTING CURB INLET

EXISTING GRATE INLET

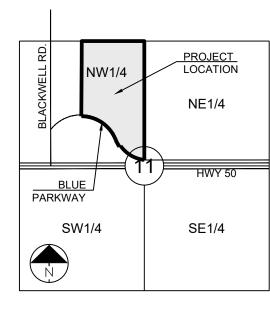
EXISTING JUNCTION BOX

EXISTING STORM MANHOLE

EXISTING SANITARY MANHOLE

PROPOSED SANITARY MANHOLE

CLEANOUT



SECTION 11-47-31

LOCATION MAP SCALE 1" = 2000'

UTILITY CONTACTS:

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) Steve Holloway 600 NE Colbern Road Lee's Summit, MO 64086

(816) 607-2186

3025 SE Clover Drive Lee's Summit, MO 64082 (816) 399-0663brent.jones@spireenergy.com

1300 SE Hamblin Road Lee's Summit, MO 64081 Office: (816) 347-347-4339 philip.inghram@evergy.com

CITY OF LEES SUMMIT PUBLIC WORKS

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 4700 Little Blue Parkway

CITY OF LEE'S SUMMIT WATER UTILITIES Mark Schaufler

1200 SE Hamblen Road Lee's Summit, MO 64081 (816) 969-1900



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

SUMMARY OF QUANTITIES								
	ITEM	QUANTITY	UNITS					
1	24" PVC SDR-26	495	LF					
2	15" PVC SDR-26	318	LF					
3	12" PVC SDR-26	591	LF					
4	8" PVC SDR-26	1050	LF					
5	14" D.I.P. W/RESTRAINED JOINTS	319	LF					
6	STANDARD 4' DIAMETER MANHOLE	13	EA					
7	4' DIAMETER OUTSIDE DROP MANHOLE	1	EA					
8	EXTRA DEPTH IN MANHOLES	155	VF					
9	TRENCHING UNDER FUTURE STREET	762	LF					
10	COMPACTION TESTING	1	LS					
11	BONDS	1	LS					
12	SILT FENCE	5290	LS					
13	CONSTRUCTION ENTRANCE & STAGING AREA	1	EA					
14	CONCRETE WASHOUT	1	EA					
15	POST-CONSTRUCTION MANHOLE BARREL ADJUSTMENTS (ESTIMATED)	4	EA					
16	POST-CONSTRUCTION RING (3"-12") ADJUSTMENT (ESTIMATED)	4	EA					

PUBLIC SANITARY SEWER MAIN PLANS RESIDENCES AT BLACKWELL

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

GENERAL NOTES

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE
- MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES
- 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 EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE 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 WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- 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 SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED 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
- CONTRACTOR, OR AS DIRECTED BY THE OWNER. 11. ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK
- 12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- 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 DEVELOPMENT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO
- 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 ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

UTILITIES:

- 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 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 negligence of the contractor shall be repaired at the contractor's expense.
- 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
- 4. Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can
- 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
- any proposed utility main extension or service line or service connection to any existing main. 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.
- All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best information provided to the Project Engineer. The Engineer has the authority to identify and define the physical 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 trenches by disposing it in areas as specified by the Project Engineer.

Sheet List Table							
Sheet Number	Sheet Title						
1	COVER SHEET						
2	GENERAL LAYOUT & GRADING						
3	EROSION CONTROL PLAN						
4	EROSION CONTROL PLAN						
5	EROSION CONTROL DETAILS						
6	TRIB MAP						
7	LINE A						
8	LINE A						
9	EXISTING LINE						
10	LINE B						
11	LINE C						
12	SANITARY SERVICE LINES						
13	DETAILS						

APPROVED BY

CITY ENGINEER APPROVED FOR ONE YEAR FROM THIS DATE

OWNER/DEVELOPER

PREPARED BY

MARK ALLEN

BREUER

MUMBER

PE-2009007268

SCHLAGEL & ASSOCIATES, P.A

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

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

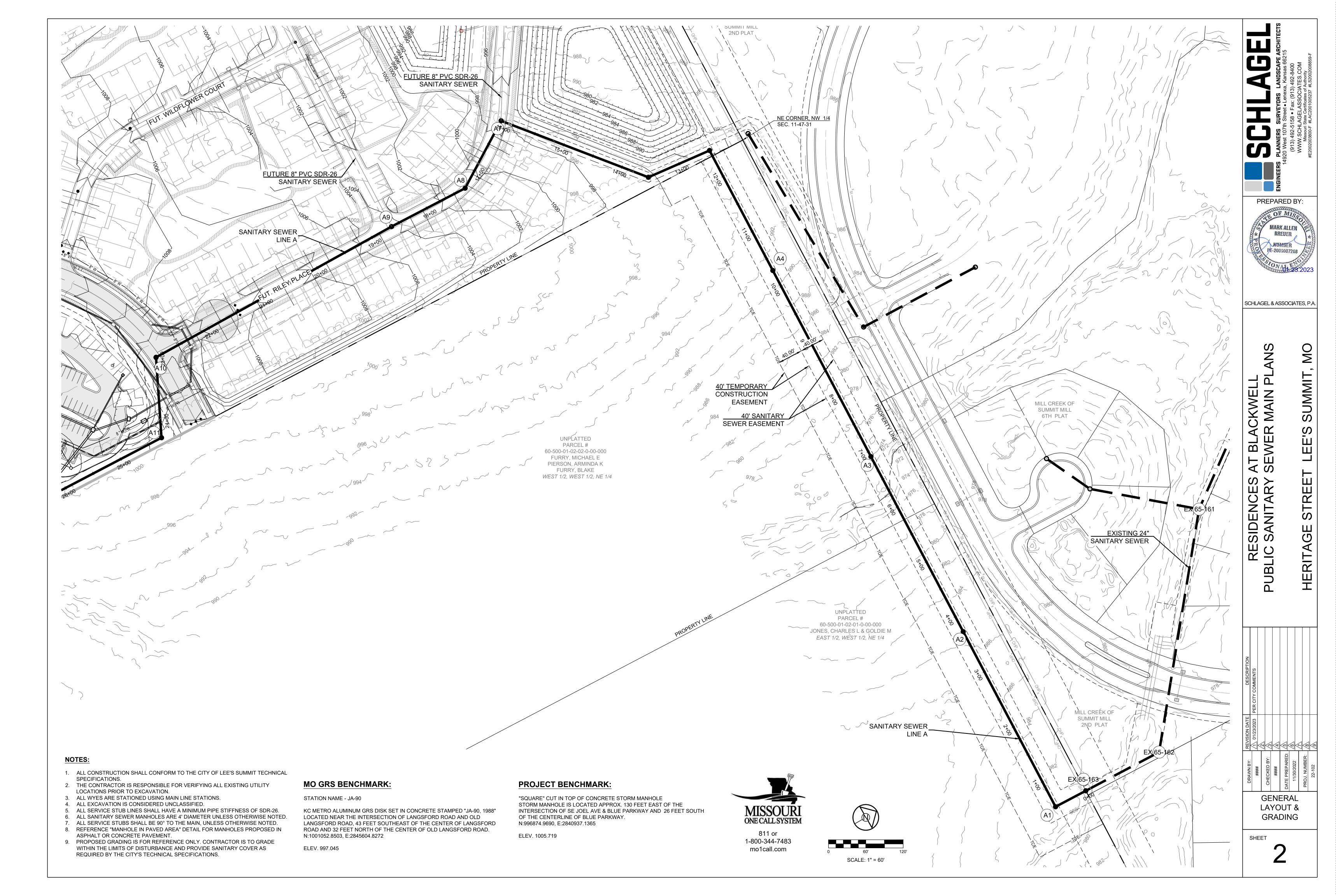
PROJECT BENCHMARK:

"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

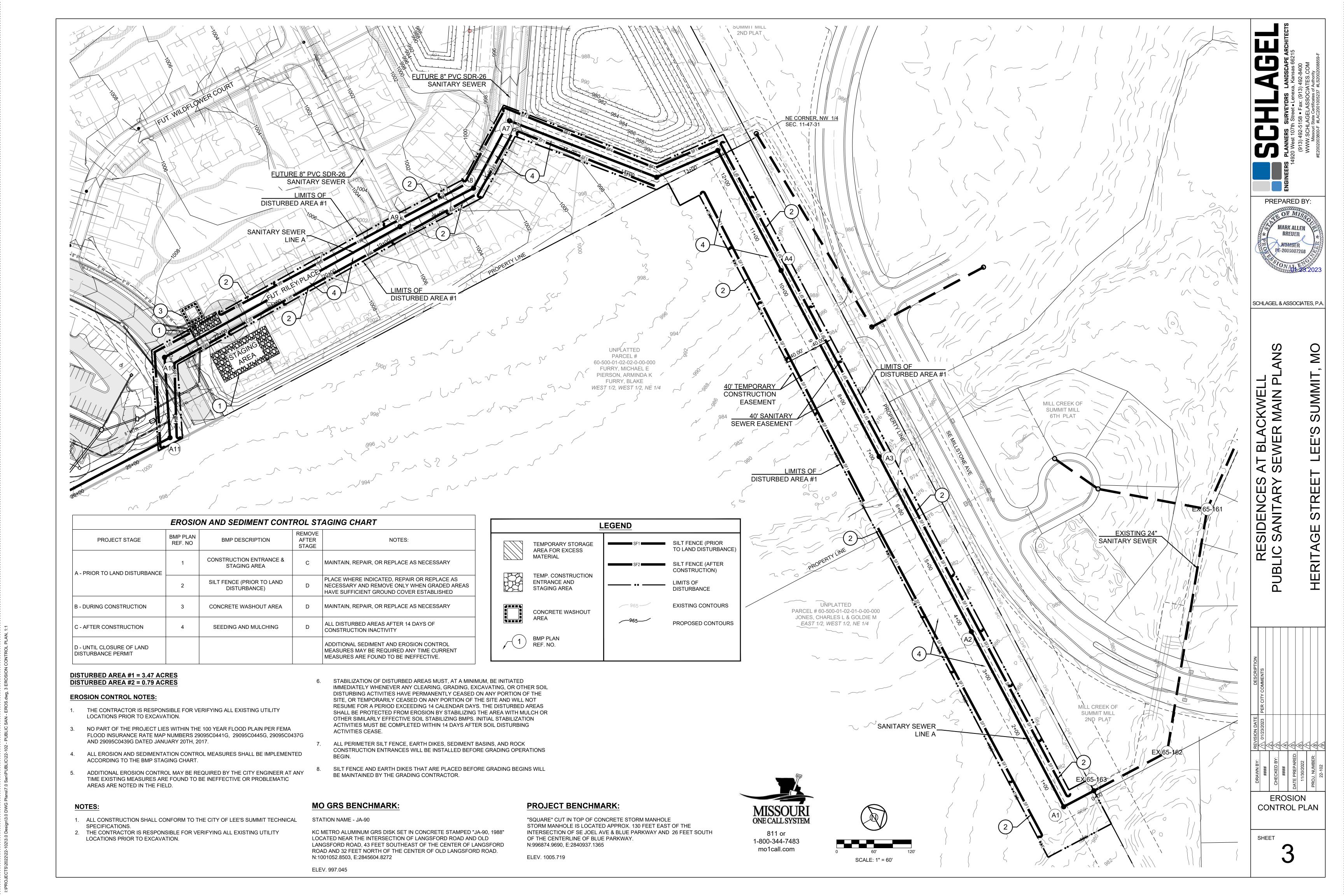
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COVER SHEET

SHEET



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NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
- 3. SEE SHEET 3 FOR EROSION CONTROL STAGING CHART, LEGEND AND NOTES.

MO GRS BENCHMARK:

STATION NAME - JA-90

ELEV. 997.045

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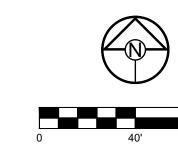
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ELEV. 1005.719



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



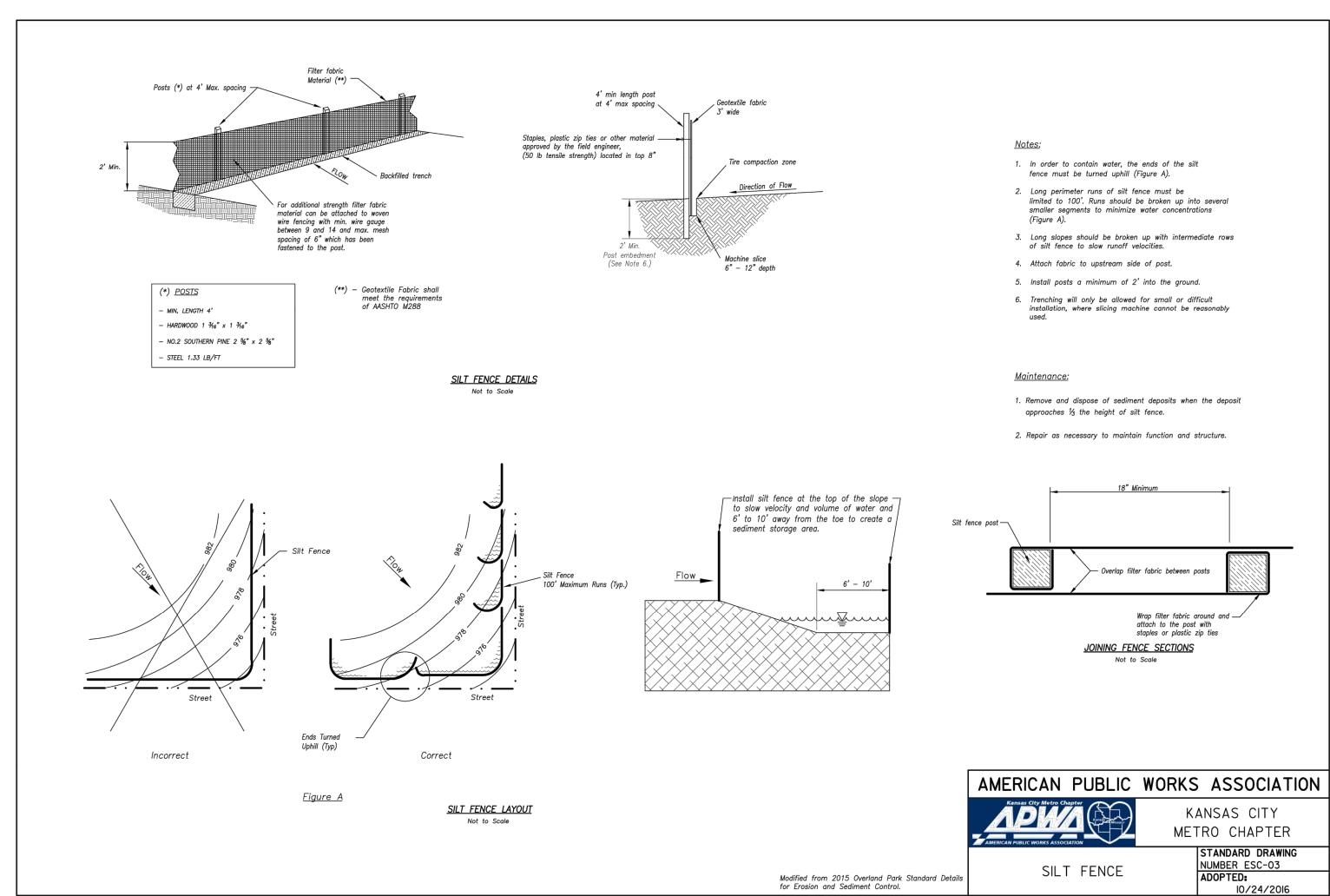
SCALE: 1" = 40'



SHEET

PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.





PREPARED BY: MARK ALLEN BREUER MUMBER PE-2009007268

SCHLAGEL & ASSOCIATES, P.A.

SUMMIT,

BLACKWELL WER MAIN PL SIDENCES RE? PUBLIC (

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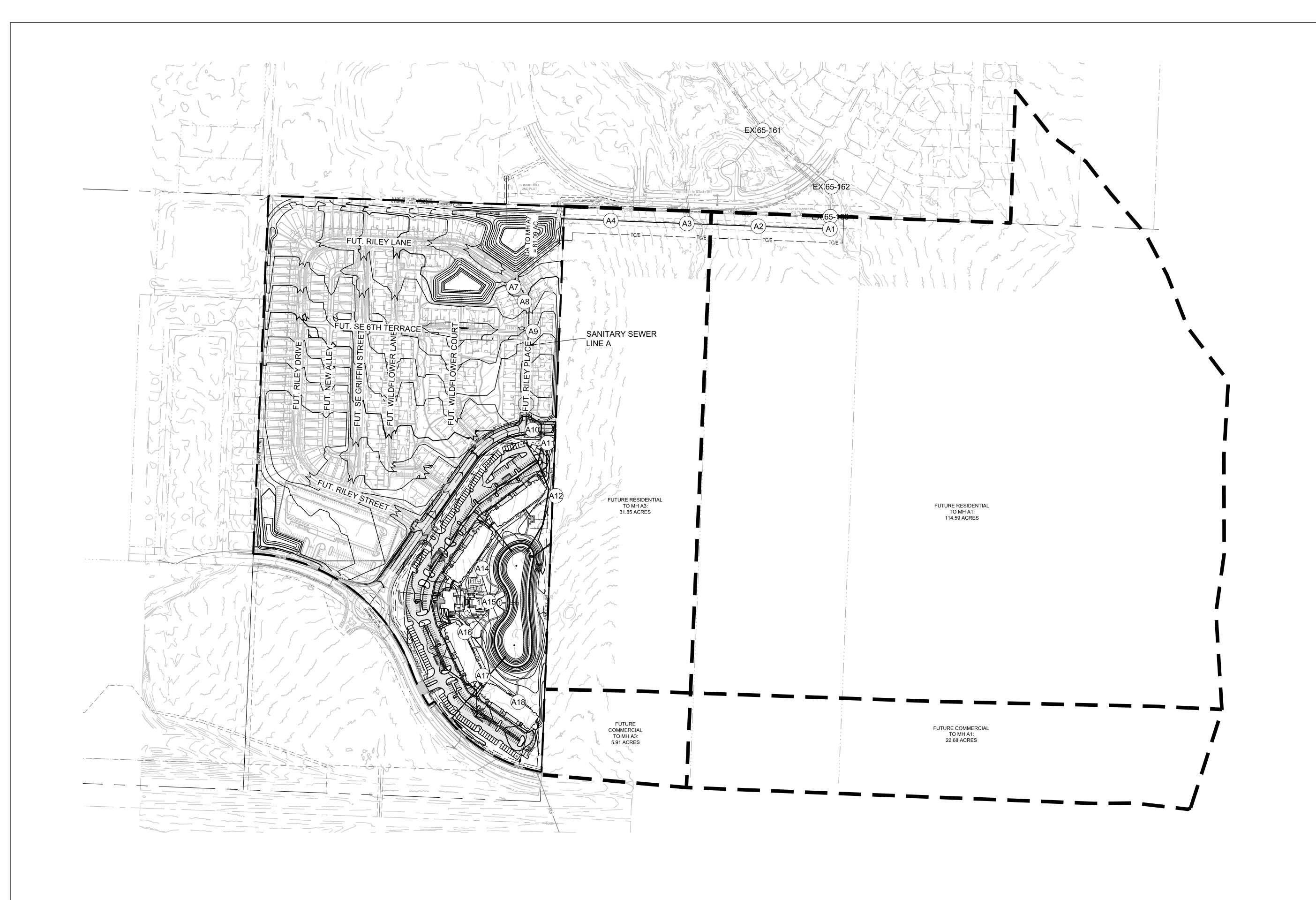
AGE

HERIT/

EROSION CONTROL

DETAILS

SHEET



NOTE: CITY OF LEE'S SUMMIT TO PROVIDE SANITARY SEWER CALCULATIONS.

MO GRS BENCHMARK:

STATION NAME - JA-90

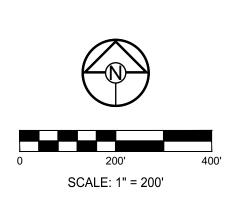
KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD. N:1001052.8503, E:2845604.8272

ELEV. 997.045

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"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

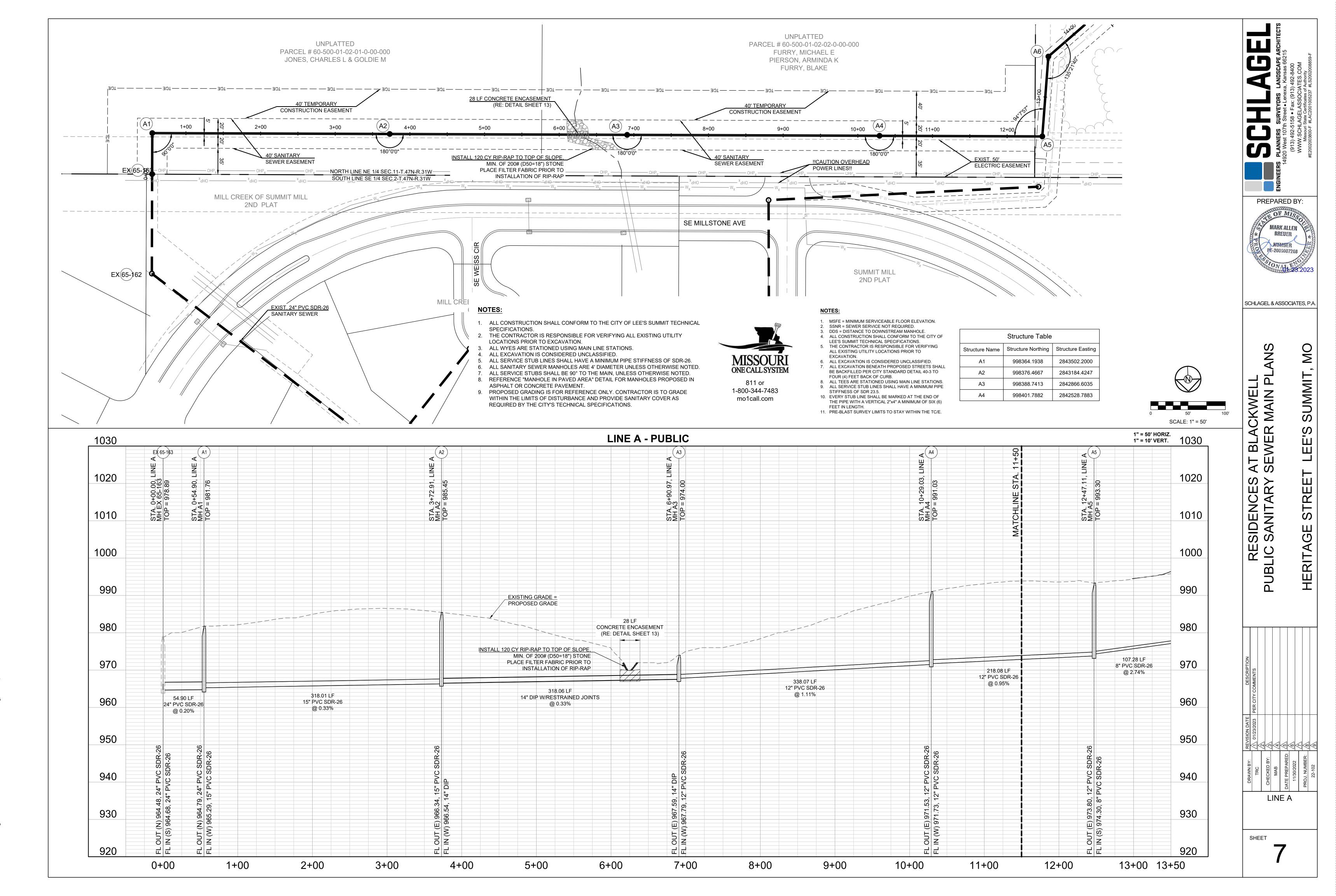


SHEET 6

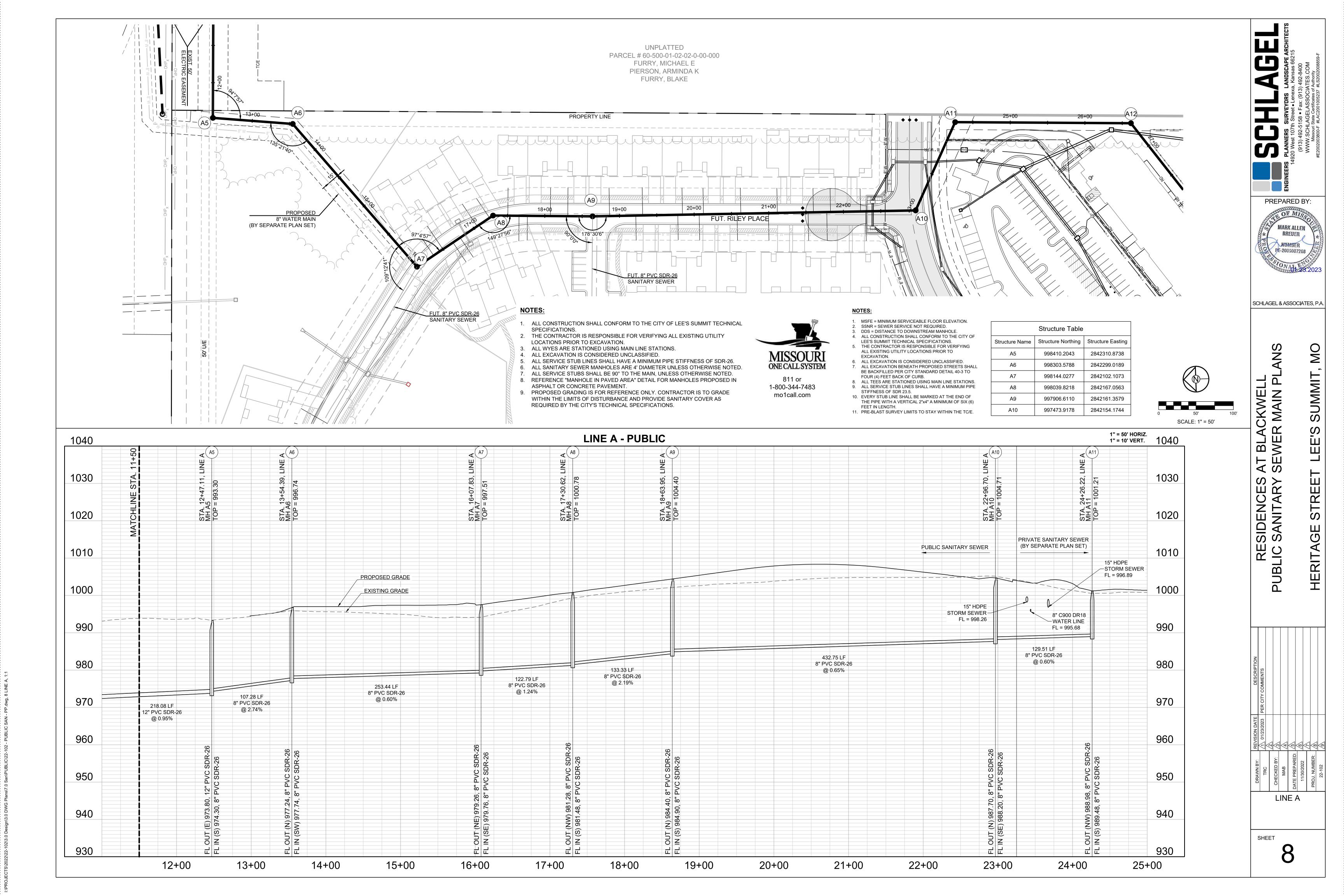
TRIB MAP

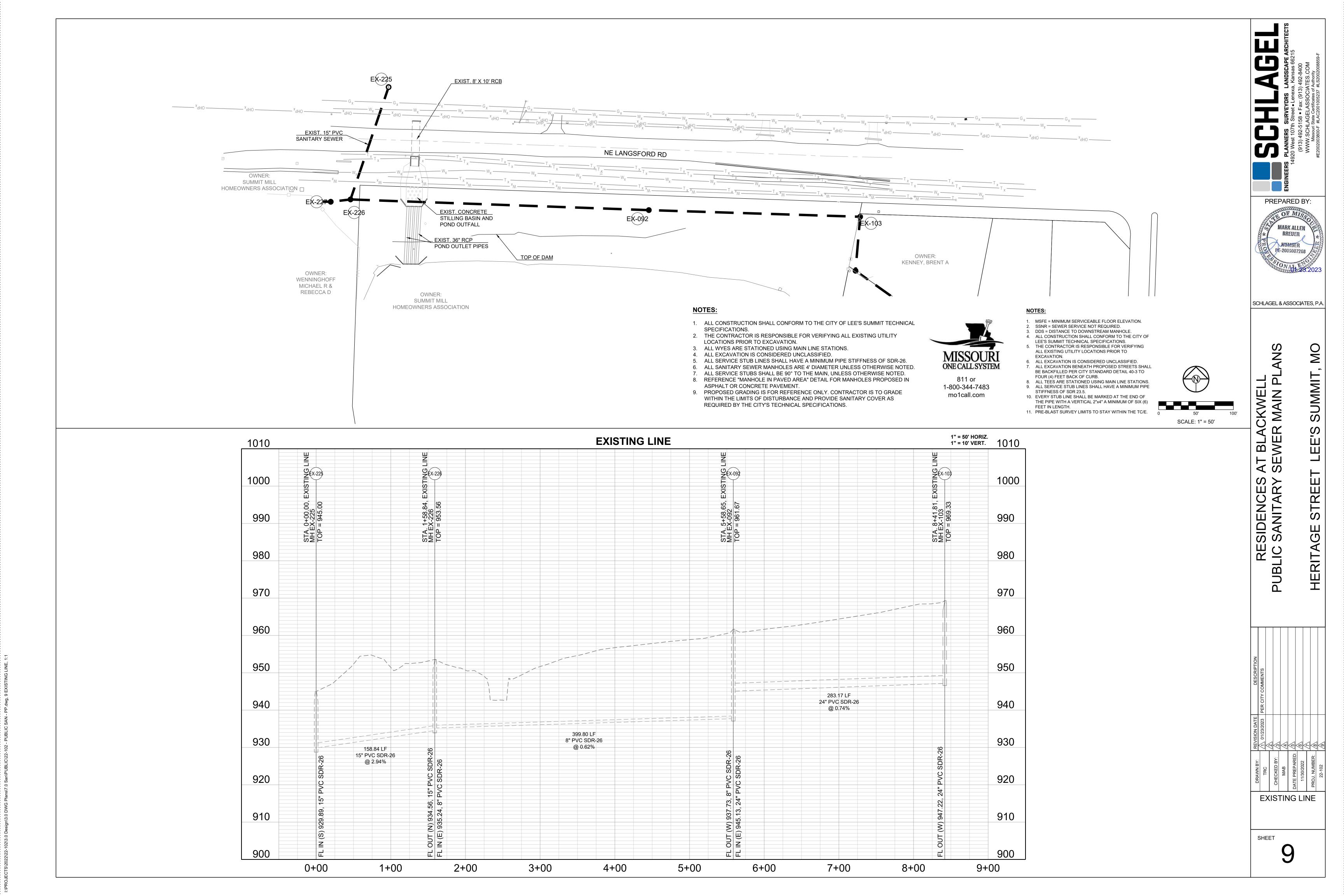
PREPARED BY:

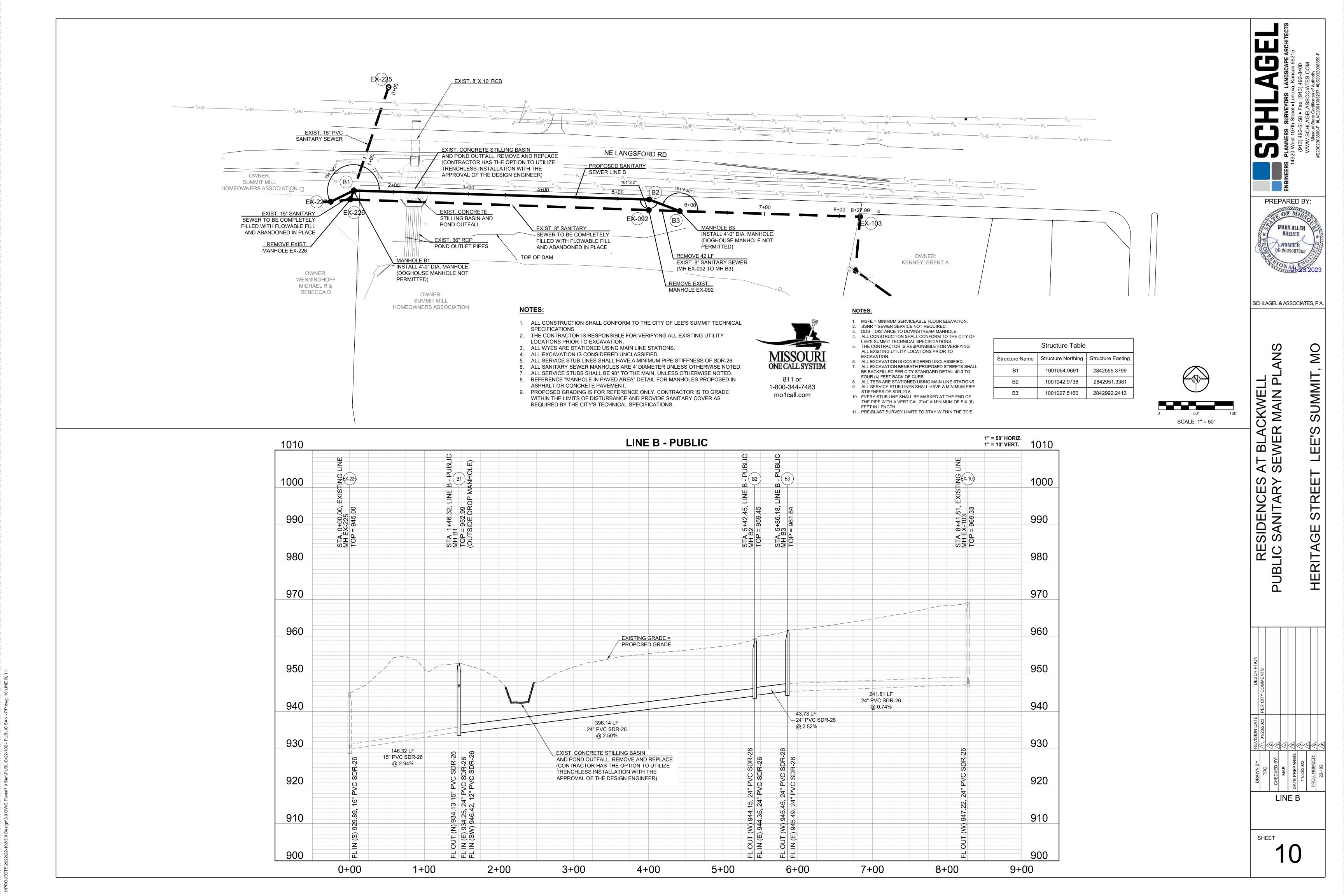
SCHLAGEL & ASSOCIATES, P.A.

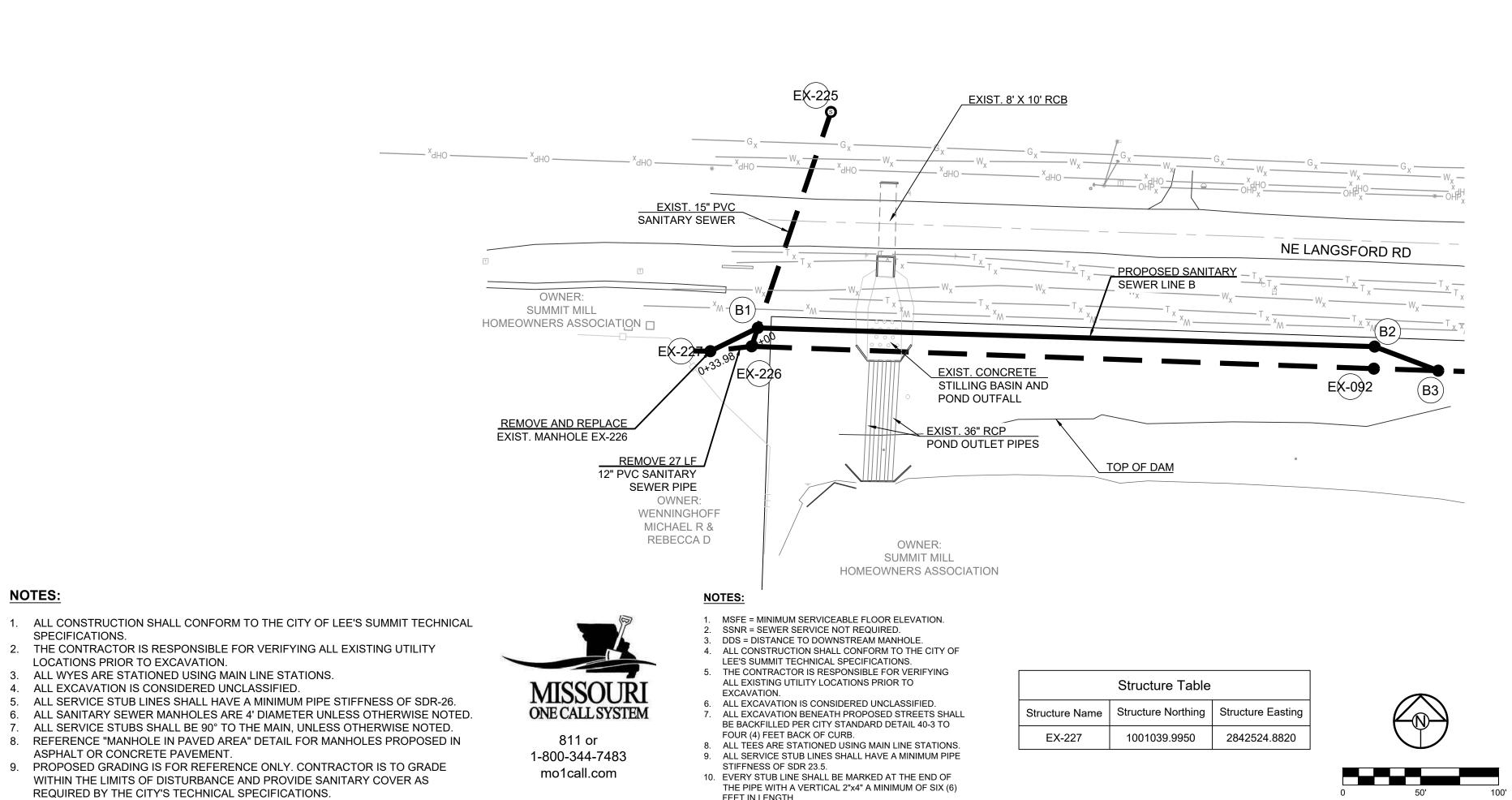


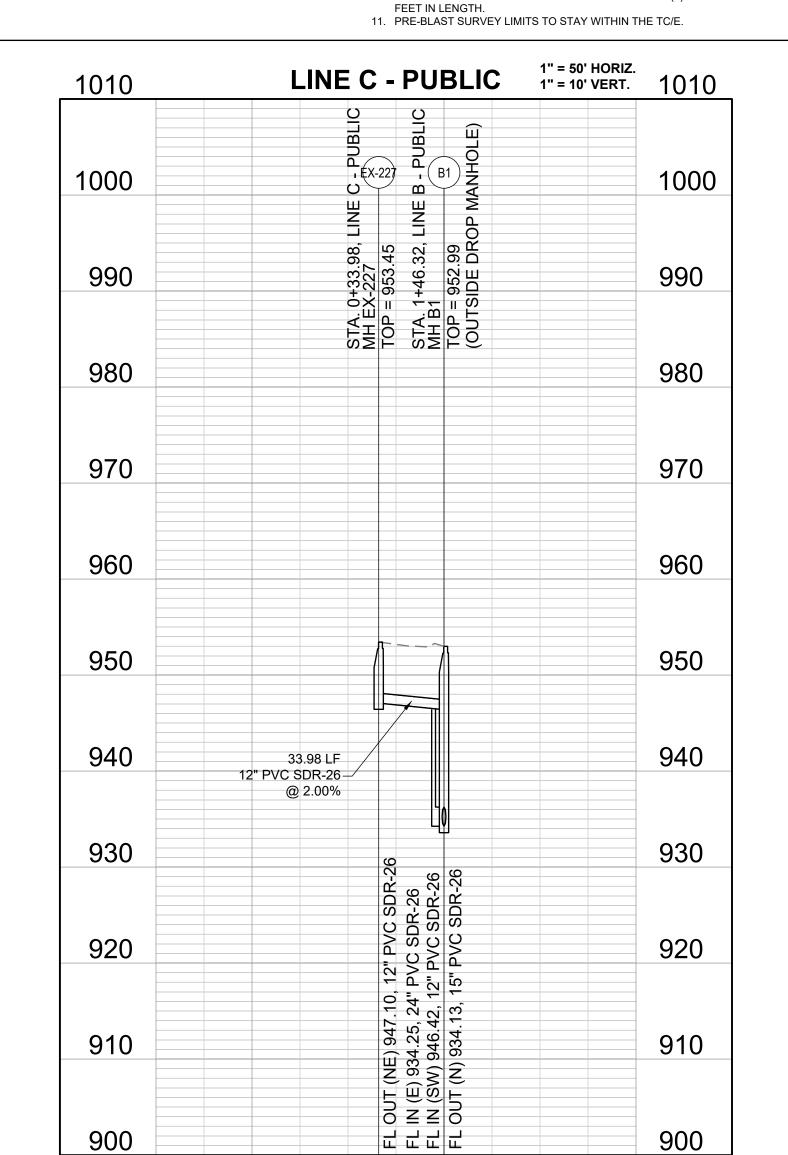
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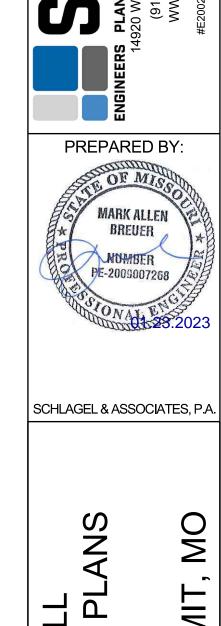
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1+50 1+00

SPECIFICATIONS.

LOCATIONS PRIOR TO EXCAVATION.

ASPHALT OR CONCRETE PAVEMENT.



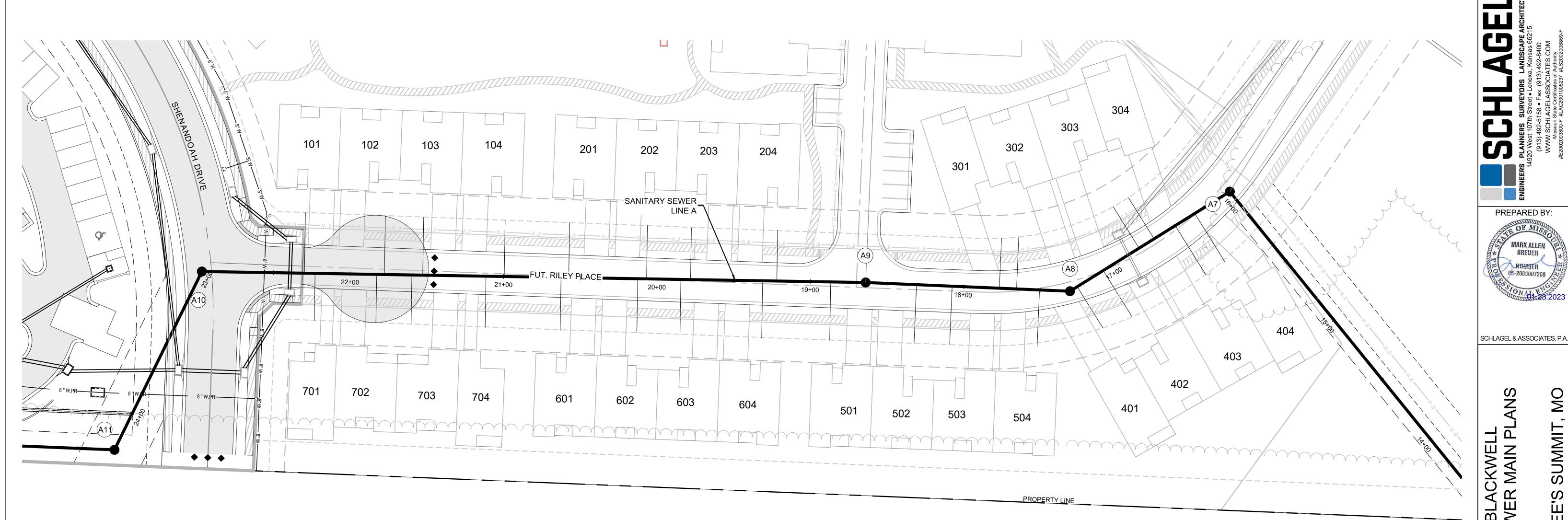
RESIDENCES A PUBLIC SANITARY S

HERITAGE STREET

SCALE: 1" = 50'

LINE C

SHEET



Unit Number	Line Station	Main Line Flowline Elevation	Stub Line Length	Service Line Grade	End of Stub Flowline Elevation	Connection Type	Stub Cleanout	MSFE Elevation
101	22+30	987.3	40	1.3	994.1	TEE	NO	997.1
102	21+78	987.0	38	1.3	994.5	TEE	NO	997.5
103	21+53	986.8	38	1.3	995.1	TEE	NO	998.1
104	21+00	986.5	37	1.3	995.4	TEE	NO	998.4
201	20+58	986.3	36	1.3	995.2	TEE	NO	998.2
202	20+07	986.0	35	1.3	995.6	TEE	NO	998.6
203	19+78	985.8	34	1.3	994.7	TEE	NO	997.7
204	19+22	985.5	33	1.3	993.6	TEE	NO	996.6
301	17+77	982.7	33	1.3	989.4	TEE	NO	992.4
302	17+65	982.4	34	1.3	989.1	TEE	NO	992.1
303	16+78	980.6	32	1.3	987.4	TEE	NO	990.4
304	16+66	980.5	32	1.3	987.2	TEE	NO	990.2
401	17+25	981.2	32	1.3	988.7	TEE	NO	991.7
402	17+05	981.0	36	1.3	988.5	TEE	NO	991.5
403	16+50	980.3	38	1.3	986.4	TEE	NO	989.4
404	16+35	980.1	38	1.3	986.2	TEE	NO	989.2
501	18+87	985.2	38	1.3	993.5	TEE	NO	996.5
502	18+31	984.1	38	1.3	991.6	TEE	NO	994.6
503	18+07	983.5	38	1.3	991.0	TEE	NO	994.0
504	17+50	982.0	37	1.3	990.2	TEE	NO	993.2
601	20+63	986.6	35	1.3	996.2	TEE	NO	999.2
602	20+13	986.0	35	1.3	995.6	TEE	NO	998.6
603	19+84	985.8	36	1.3	995.4	TEE	NO	998.4
604	19+31	985.5	37	1.3	994.4	TEE	NO	997.4
701	22+23	987.3	31	1.3	994.0	TEE	NO	997.0
702	21+83	987.0	31	1.3	995.2	TEE	NO	998.2
703	21+60	986.9	32	1.3	995.0	TEE	NO	998.0
704	21+11	986.6	33	1.3	996.2	TEE	NO	999.2

- 8. REFERENCE "MANHOLE IN PAVED AREA" DETAIL FOR MANHOLES PROPOSED IN
- 9. PROPOSED GRADING IS FOR REFERENCE ONLY. CONTRACTOR IS TO GRADE WITHIN THE LIMITS OF DISTURBANCE AND PROVIDE SANITARY COVER AS REQUIRED BY THE CITY'S TECHNICAL SPECIFICATIONS.

ASPHALT OR CONCRETE PAVEMENT.

ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD. N:1001052.8503, E:2845604.8272

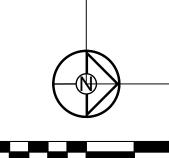
ELEV. 997.045

"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.

ELEV. 1005.719



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

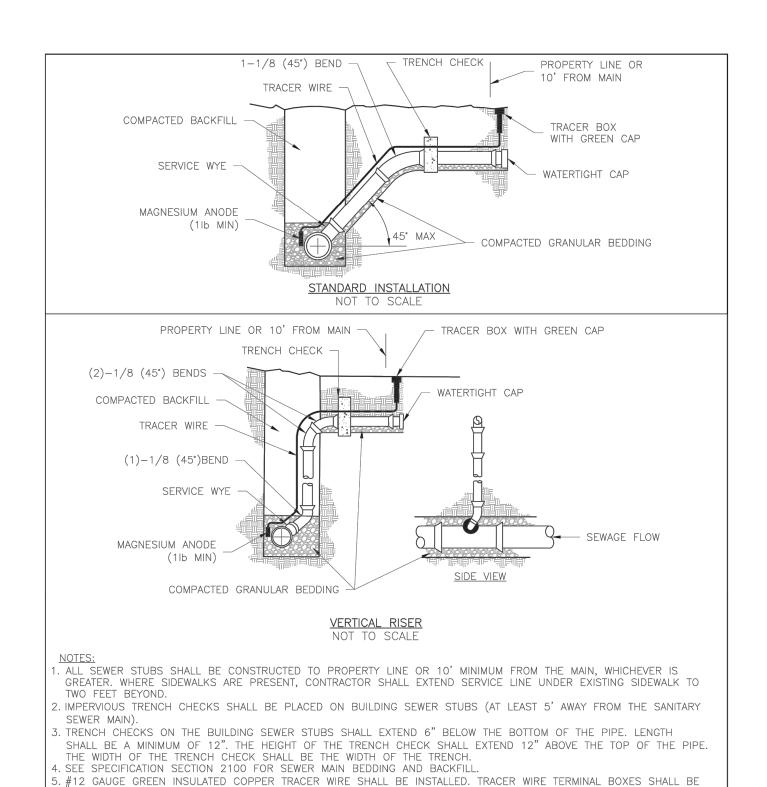


SCALE: 1" = 30'

SANITARY SERVICE LINES

PREPARED BY:

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS. PROJECT BENCHMARK: MO GRS BENCHMARK: 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION. 3. ALL WYES ARE STATIONED USING MAIN LINE STATIONS. STATION NAME - JA-90 4. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED. 5. ALL SERVICE STUB LINES SHALL HAVE A MINIMUM PIPE STIFFNESS OF SDR-26. KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD 6. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED. 7. ALL SERVICE STUBS SHALL BE 90° TO THE MAIN, UNLESS OTHERWISE NOTED. LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD N:996874.9690, E:2840937.1365



INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.

. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.

GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.

6. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A

. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE

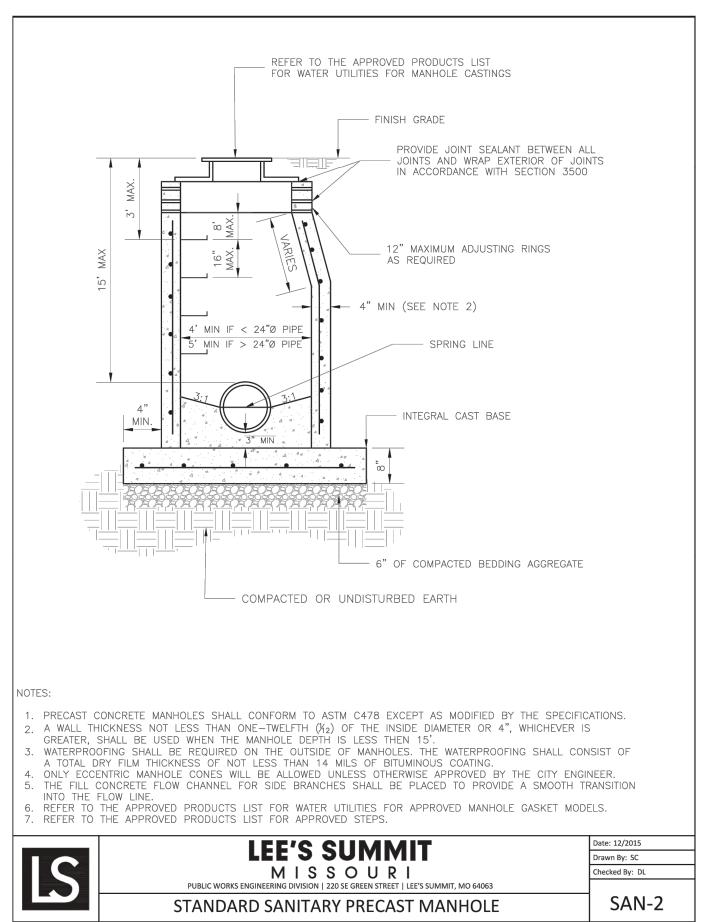
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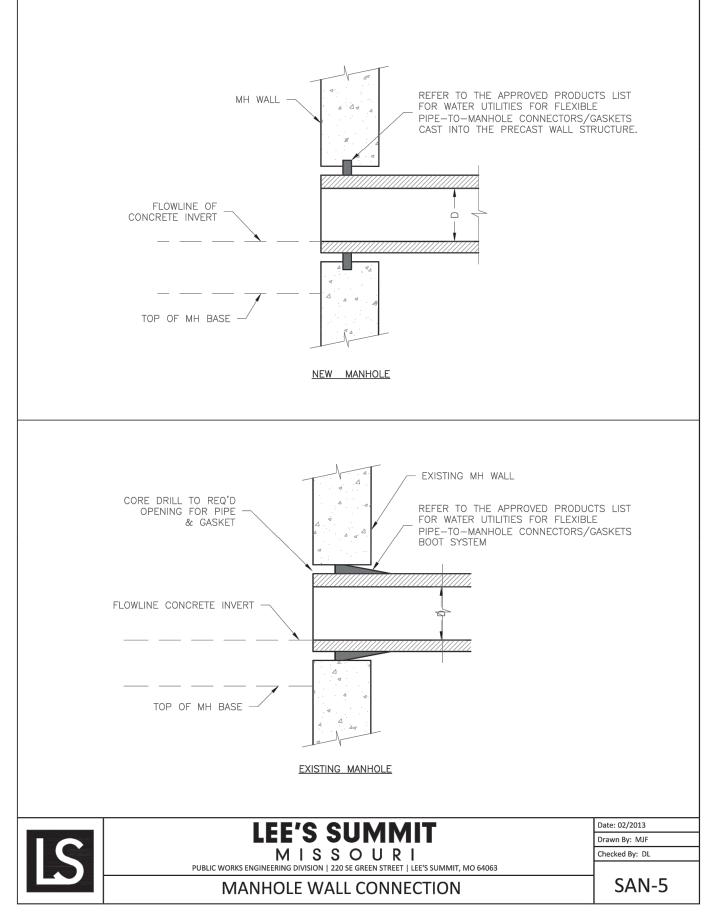
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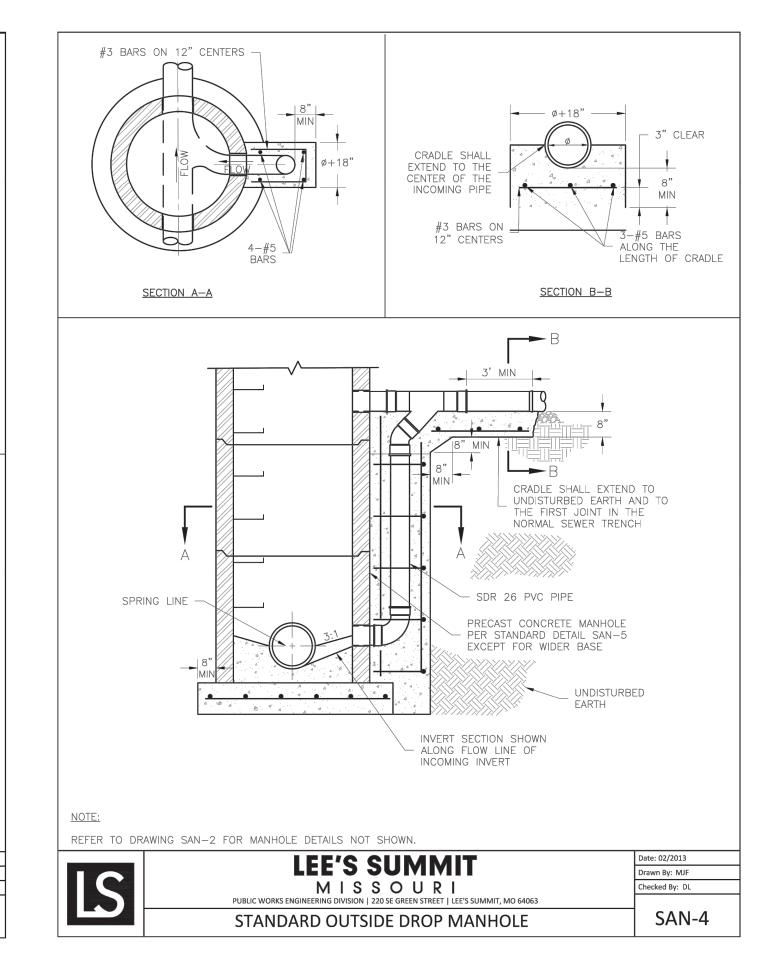
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

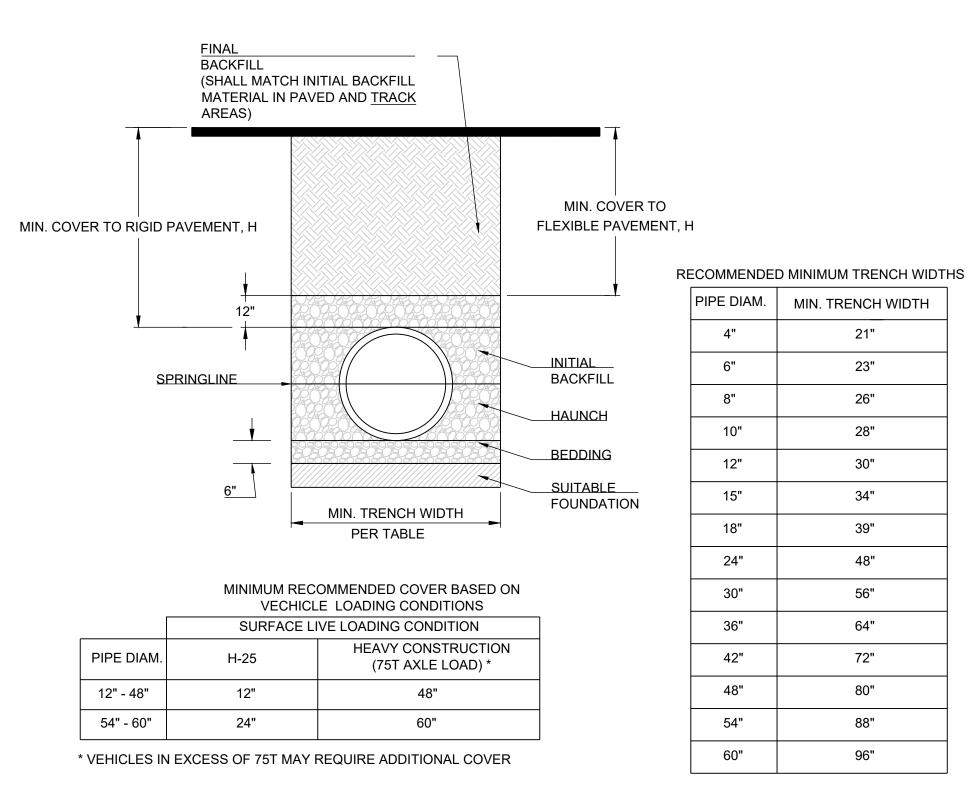
SANITARY SEWER STUB DETAIL

SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS



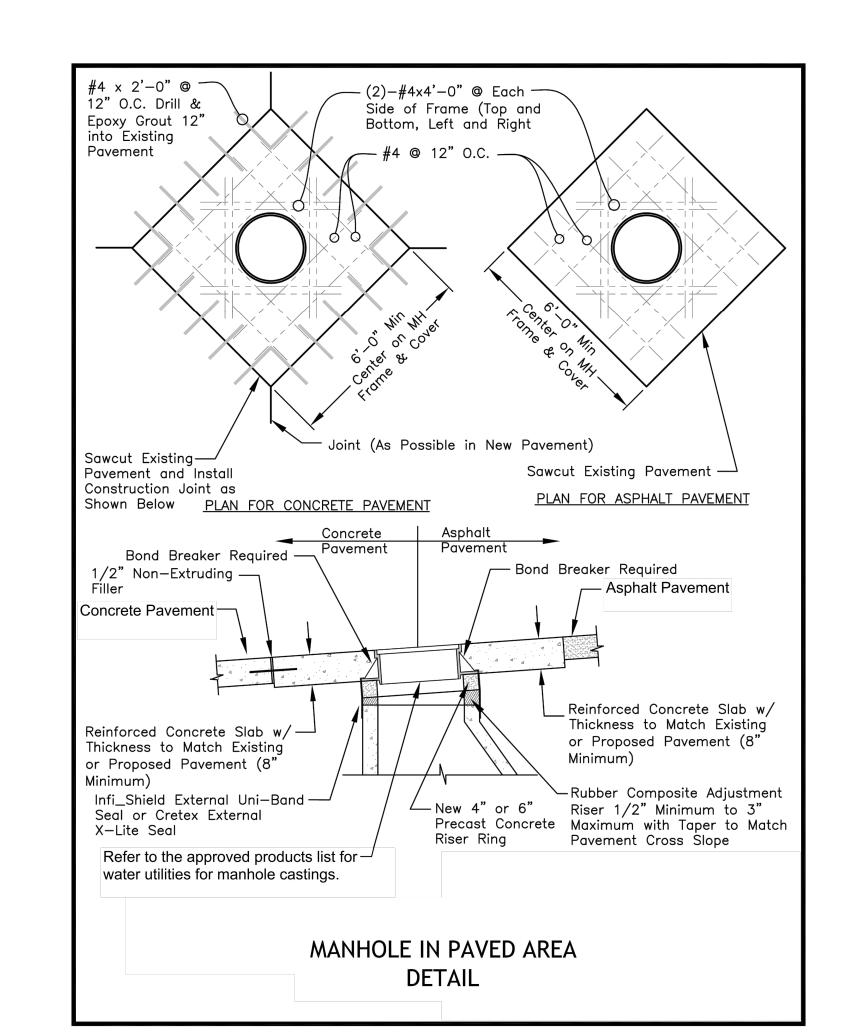


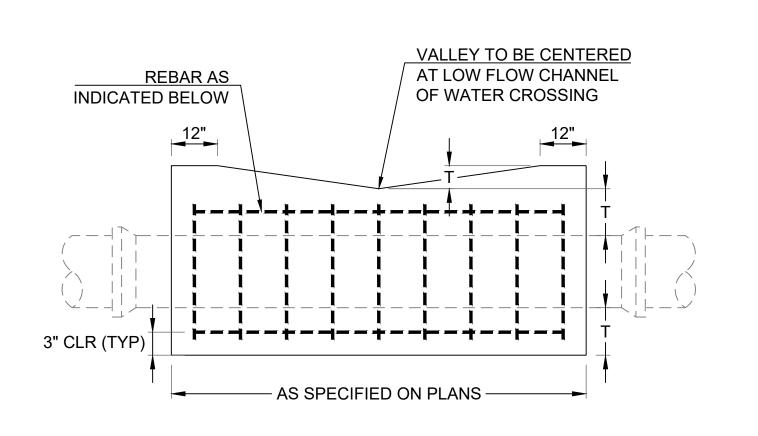




rawn By: MJF

SAN-1





NOTES:

1. FOR PIPES LESS THAN 15", T = 6" MIN.
2. FOR PIPES 15" THRU 36", T = 8" MIN.
3. INTERMEDIATE BELLS SHALL BE ENCASED
4. REINFORCING STEEL SHALL BE #4 @ 12" O.C.
EACH WAY WITH A MINIMUM REBAR LAP OF 12".

PIPE ENCASEMENT
AT WATER CROSSING DETAIL
N.T.S.

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 6" (100mm).

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.

13

DETAILS

SHEET

PREPARED BY:

MARK ALLEN

BREUER

MUMBER

SCHLAGEL & ASSOCIATES, P.A.

PE-2009007268