

**UTILITY COMPANIES AND GOVERNING AGENCIES:**

**CITY OF LEE'S SUMMIT, PUBLIC WORKS:**

ENGINEERING  
220 SE GREEN  
LEE'S SUMMIT, MO 64063  
816.969.1800

**CITY OF LEE'S SUMMIT, CITY HALL:**

220 SE GREEN  
LEE'S SUMMIT, MO 64063  
816.969.1000

**CITY OF LEE'S SUMMIT, FIRE CHIEF:**

207 SE DOUGLAS  
LEE'S SUMMIT, MO 64063  
816.969.7407

**CITY OF LEE'S SUMMIT, POLICE CHIEF:**

10 NE TUDOR  
LEE'S SUMMIT, MO 64086  
816.969.1700

**WATER UTILITIES:**

1200 SE HAMBLEN ROAD  
LEE'S SUMMIT, MO 64081  
816.969.1900

**BUILDING INSPECTIONS**

220 SE GREEN  
LEE'S SUMMIT, MO 64063  
816.969.1200

**POWER COMPANY:**

EVERGY  
8700 EAST FRONT STREET  
KANSAS CITY, MO 64120  
816.471.5275

**GAS COMPANY:**

SPIRE GAS  
3025 S.E. CLOVER ST  
LEES SUMMIT, MO 64082  
816.756.5252

**TELEPHONE:**

AT&T  
DARRIN SHEPARD  
816.275.3825  
ds616h@att.com

**CABLE/FIBER:**

SPECTRUM  
877.772.2253

**GOOGLE FIBER**

877.454.6959

PUBLIC SANITARY SEWER MAIN EXTENSION PLANS FOR  
**LEE'S SUMMIT MIDDLE SCHOOL #4**  
SOUTH SIDE SE BAILEY ROAD AND COUNTRY LANE  
NE 1/4 OF SECTION 16, TOWNSHIP 47 NORTH, RANGE 31 WEST  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

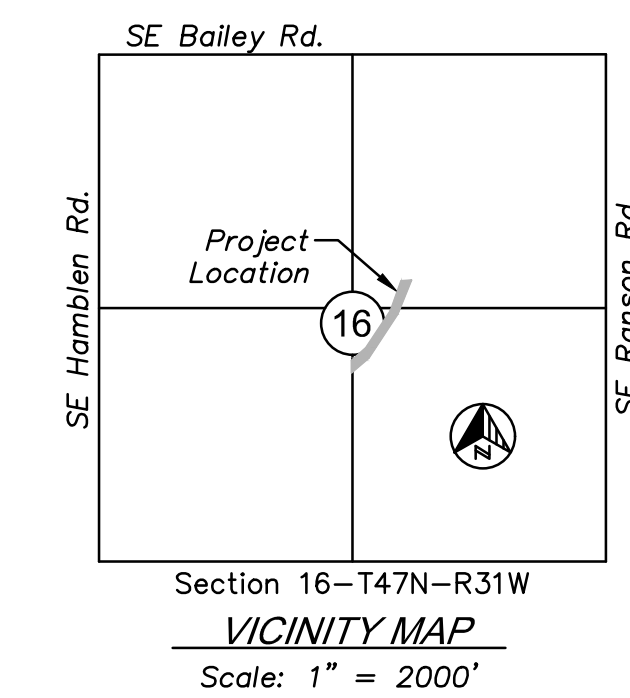
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DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
KYLE GORRELL DIRECTOR, LEE'S SUMMIT SCHOOL DISTRICT	502 SE TRANSPORT DRIVE LEE'S SUMMIT, MO 64081 816.986-2420
CIVIL ENGINEER	
TERRY PARSONS OLSSON	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170 FAX: 913.381.1174 tparsons@olsson.com

**PUBLIC SANITARY SEWER  
AS-BUILTS  
02.22.2023**

**Accepted  
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



Summary of Quantities		
Description	Qty	Unit
Mobilization	1	LS
Erosion Control	1	LS
Standard 4'ø Manhole (8ft)	8	Ea
Extra Depth Manhole	28	LF
15" PVC (SDR-26)		
COVER 6' TO 10'	822	LF
COVER 10' TO 15'	843	LF
8" PVC (SDR-26) COVER 6' TO 10'	73	LF
8" DIP (CLASS 50 COVER 6' TO 10')	176	LF
Connection to Existing Manhole	1	Ea
Restoration	1	LS

UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF LEE'S SUMMIT, MISSOURI	220 SE GREEN LEE'S SUMMIT, MO 64063
CITY HALL	816.969.1000
BUILDING INSPECTIONS	816.969.1200
SPECIAL INSPECTIONS	816.969.1200
BUILDING PERMITS	816.969.1200
LAND DEVELOPMENT DIVISION/INSPECTIONS	816.969.1200
TRAFFIC OPERATIONS	816.969.1800
LEE'S SUMMIT WATER UTILITIES	1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081
LEE'S SUMMIT WATER & SERVICES	816.969.1940
LEE'S SUMMIT PUBLIC WORKS	816.969.1800
SPIRE (MGE)	314.342.0500
KANSAS CITY POWER & LIGHT	8700 EAST FRONT STREET KANSAS CITY, MO 64120 816.471.5275
TELEPHONE SERVICE	
AT&T	816.221.1781
CABLE TELEVISION SERVICE	
SPECTRUM	877.772.2253
GOOGLE FIBER	877.454.6959



NOT TO SCALE

**LEGAL DESCRIPTION:**

All that part of Northeast Quarter of Section 16, Township 47 North, Range 31 West, in the City of Lee's Summit, Jackson County, Missouri, as described by Timothy Blair Wiswell, Missouri Professional Licensed Surveyor, PLS-2009000067, and being more particularly described as follows:

COMMENCING at the Northwest corner of the Northeast Quarter, of said Section 16-T47N-R31W; thence South 02 degrees 20 minutes 19 seconds West, along the West line of said Northeast Quarter, a distance of 20.00 feet, to a point on the South Right-of-Way line of Bailey Road as now established, said point also being the Northeast corner of Lot 164 of Newberry Second Plat, Lots 1-65, 163 and 164, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence South 88 degrees 07 minutes 48 seconds East, on the South Right-of-Way line of said Bailey Road, a distance of 1,350.00 feet, to a point; thence South 35 degrees 20 minutes 58 seconds West, departing the South Right-of-Way line of said Bailey Road, a distance of 517.08 feet, to a point; thence South 07 degrees 56 minutes 53 seconds West, a distance of 320.18 feet, to a point; thence South 12 degrees 12 minutes 42 seconds West, a distance of 1,168.07 feet, to a point; thence South 27 degrees 41 minutes 50 seconds West, a distance of 480.35 feet, to a point on a line that is 300.00 feet North of and parallel to the South line of said Northeast Quarter; thence North 88 degrees 04 minutes 43 seconds West, on said parallel line, a distance of 630.96 feet, to a point on the West line of said Northeast Quarter, said point also being on the East line of Newberry Fourth Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence North 02 degrees 20 minutes 19 seconds East, on the West line of said Northeast Quarter, and on the East line of said Newberry Fourth Plat, and on the East line of Newberry Third Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri, and on the East line of said Newberry Second Plat, Lots 1-65, 163 and 164, a distance of 2,330.63 feet, to the POINT OF BEGINNING, containing 2,250,248 square feet or 51.6586 acres, more or less.

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**olsson**

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REV. NO.	DATE	REVISIONS DESCRIPTION
1	08.21.21	AS1033

COVER SHEET  
 SANITARY SEWER PLANS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILEY ROAD AND SE COUNTRY LANE  
 LEE'S SUMMIT, MISSOURI  
 2021

drawn by: \_\_\_\_\_ RLK  
 checked by: \_\_\_\_\_ BS  
 approved by: \_\_\_\_\_ TP  
 QA/QC by: \_\_\_\_\_ MP  
 project no.: 020-0103  
 drawing no.: C\_COV01\_0200103  
 date: 12.05.20

GENERAL NOTES:

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-SAFE", 1(800)344-7233 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
2. DESIGN BASED ON SURVEY, BENCHMARKS AND DATUM PROVIDED BY ANDERSON ENGINEERING, DATED 11.12.2021.
3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
4. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
6. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, MO., EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
8. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF KANSAS STATE LAW WHICH 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.
9. 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.
10. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
11. 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.
12. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
13. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE APPLICABLE UTILITY COMPANIES.
14. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
15. ALL DISTURBED AREAS SHALL BE LANDSCAPED, SEEDED OR SODDED, AS SHOWN ON THE LANDSCAPE PLAN.
16. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA STANDARDS AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
18. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY COOK, FLATT, AND STROBEL ENGINEERS DATED JUNE 24, 2021 AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.
20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
21. ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF KANSAS, AT THE CONTRACTOR'S EXPENSE.
23. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
24. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS.
25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE.
27. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
28. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
29. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
30. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PROVIDED BY COOK, FLATT, AND STROBEL ENGINEERS DATED JUNE 24, 2021 AND ALL ADDENDUMS.
31. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
32. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER.
33. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON ASSOCIATES (OA), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OA, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OA AND THE ELECTRONIC FILES TRANSFERRED HERewith, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OA SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OA, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OA OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OA.
34. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE, NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.
BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED:
a. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;
b. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
c. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
d. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.
ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.
36. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.

EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
4. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND REPAIRING ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
10. THE CONTRACTOR SHALL LEAVE THE EROSION CONTROL DEVICES AROUND ALL FIELD INLETS AT THE COMPLETION OF THE PROJECT.
11. THE CONTRACTOR SHALL PROVIDE AN INGRESS/EGRESS TRACKING PAD FOR VEHICULAR TRAFFIC AT A LOCATION APPROVED BY THE OWNERS REPRESENTATIVE.
12. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF BLUE SPRINGS, MISSOURI AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL DIVISION, MOST CURRENT EDITIONS.
13. AT ANY TIME DURING CONSTRUCTION THE CITY ENGINEER MAY REQUIRE ADDITIONAL EROSION/SILTATION CONTROL MEASURES TO BE INSTALLED IN ORDER TO ADDRESS PROBLEM SITUATIONS OBSERVED ON THE SITE. WHEN REQUIRED SUCH MEASURES SHALL BE INSTALLED WITHIN 48 HOURS OF THE CITY ENGINEER'S VERBAL OR WRITTEN ORDER.
14. PROPOSED CONTOURS SHOWN ARE TO FINISH GRADE AND REFLECT SURFACE ELEVATIONS OF PAVEMENT AND LANDSCAPED AREAS AROUND BUILDINGS. THE CONTRACTOR SHALL ADJUST FOR PAVEMENT AND LANDSCAPED MATERIALS AS REQUIRED.
15. THE CONTRACTOR SHALL PLACE SEED AND TURF REINFORCEMENT EXCELSIOR BLANKETS (OR OTHER APPROVED EQUAL EROSION CONTROL BLANKETS) ON ALL SLOPES 6:1 AND GREATER.
16. SEED ALL DISTURBED AREA PER CITY STANDARDS AND SPECIFICATIONS.

CONTROL INFORMATION:

BASIS OF COORDINATES SHOWN HEREON ARE BASED ON MISSOURI STATE PLANE COORDINATE SYSTEM, WEST ZONE, AND SCALED TO GROUND COORDINATES UTILIZING A COMBINED ADJUSTMENT FACTOR OF 0.9998966, HOLDING JACKSON COUNTY GPS CONTROL POINT JA-45 AS A BASE POINT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES IN US SURVEY FEET.

MO DNR JA-45: KC METRO ALUMINUM GR5 DISK SET IN CONCRETE +/-3" BELOW PAVEMENT ON SHOULDER OF SE RANSON RD. STAMPED "JA-45". N: 994990.346 E: 2834265.611 ELEV.: 1046.26'

OLSSON #100: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ON THE NORTH SIDE OF SE BAILEY RD. N: 993598.83 E: 2831586.70 ELEVATION: 1032.16' TIES: 1. SW 66.88' TO THE NE CORNER OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE BAILEY RD. 2. SSW 82.19' TO THE CENTER OF A POWER POLE ON THE SOUTH SIDE OF SE BAILEY RD. 3. EAST 254.38' TO THE NW CORNER OF A CONCRETE CURB INLET ON THE NORTH SIDE OF SE BAILEY RD. 4. EAST +/-298' TO THE CENTERLINE OF COUNTRY LN. ON THE NORTH SIDE OF SE BAILEY RD.

OLSSON #101: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ON THE NORTH SIDE OF SE BAILEY RD. N: 993561.11 E: 2832755.84 ELEVATION: 1014.26' TIES: 1. EAST 80.94' TO THE NW CORNER OF A CONCRETE CURB INLET ON THE NORTH SIDE OF SE BAILEY RD. 2. SE 91.53' TO THE SW CORNER OF A CONCRETE CURB INLET ON THE SOUTH SIDE OF SE BAILEY RD. 3. NE 94.82' TO THE SW CORNER OF A CONCRETE OVERFLOW STRUCTURE ON THE SOUTH SIDE OF A POND ON THE NORTH SIDE OF SE BAILEY RD. 4. WEST +/-871' TO THE CENTERLINE OF COUNTRY LN. ON THE NORTH SIDE OF SE BAILEY RD.

OLSSON #102: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS +/-58' EAST OF THE EAST END OF SE 15TH ST. N: 992084.37 E: 2831530.63 ELEVATION: 1012.56' TIES: 1. NW 67.97' TO THE CENTER OF A WATER VALVE ON THE NORTH SIDE OF SE 15TH ST. 2. WEST 58.13' TO THE CENTER OF A SANITARY MANHOLE ON THE SOUTH SIDE OF SE 15TH ST. 3. WSW 57.28' TO THE SE CORNER OF THE EAST END OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE 15TH ST. 4. NORTH +/-15' TO THE EASTERLY PROLONGATION OF THE CENTERLINE OF SE 15TH ST.

OLSSON #103: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS +/-62' EAST OF THE EAST END OF SE CAPE DR. N: 991553.72 E: 2831514.48 ELEVATION: 1000.43' TIES: 1. NW 76.12' TO THE CENTER OF A TELEPHONE PEDESTAL ON THE NORTH SIDE OF SE CAPE DR. 2. SW 67.00' TO THE CENTER OF A WATER VALVE ON THE SOUTH SIDE OF SE CAPE DR. 3. SW 70.06' TO THE SE CORNER OF THE EAST END OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE CAPE DR. 4. NORTH +/-4' TO THE EASTERLY PROLONGATION OF THE CENTERLINE OF SE CAPE DR.

BASIS OF ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD '88 UTILIZING MDDOT'S CONTINUOUSLY MONITORED GNSS SYSTEM AND HOLDING THE ELEVATION OF JA-45 ELEVATION 1046.26'

OLSSON BENCHMARK #1: SET CHISELED SQUARE CUT ON CENTER FRONT FACE OF A CURB INLET ON NORTH SIDE OF SE BAILEY RD. +/-42' WEST OF COUNTRY LN. ELEVATION: 1028.43'

OLSSON BENCHMARK #2: SET CHISELED SQUARE CUT ON SE CORNER OF OVERFLOW STRUCTURE ON SOUTH SIDE OF POND ON NORTH SIDE OF SE BAILEY RD. +/-962' EAST OF COUNTRY LN. ELEVATION: 1017.13'

OLSSON BENCHMARK #3: SET CHISELED "+" CUT ON SSE FLANGE BOLT OF FIRE HYDRANT IN THE NW QUADRANT OF THE INTERSECTION OF SE 15TH ST. AND SE DALTON DR. ELEVATION: 1016.27'

OLSSON BENCHMARK #4: SET CHISELED SQUARE CUT ON EDGE OF SIDEWALK AT THE WEST CENTER OF A CURB INLET IN THE NW QUADRANT OF THE INTERSECTION OF SE CAPE DR. AND SE DALTON DR. ELEVATION: 999.24'



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, & OBTAINING INFORMATION FROM UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

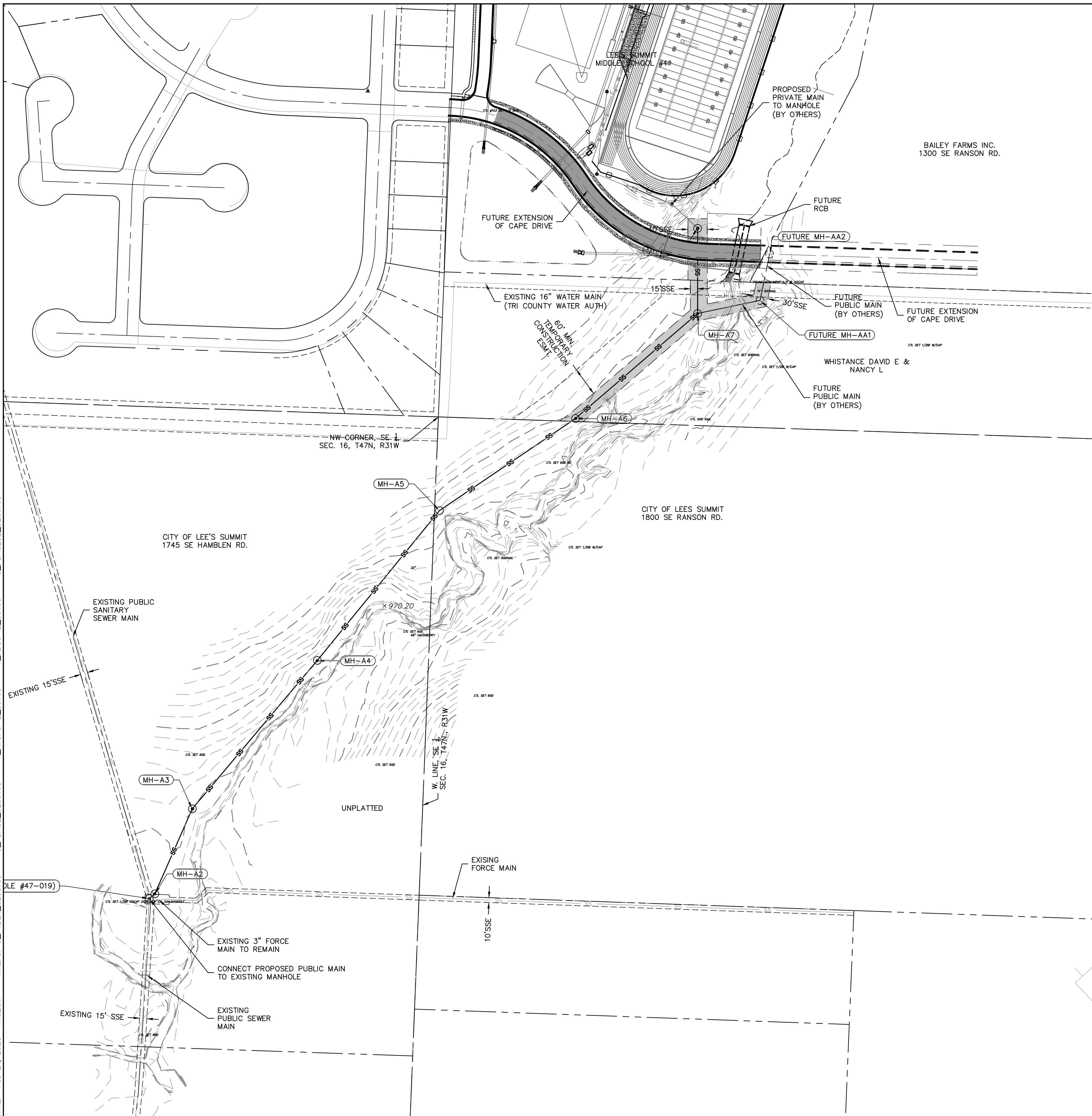
Vertical sidebar containing the Olsson logo, Missouri Professional Engineer seal for Terry M. Parsons, a table with columns for 'REV.' and 'DATE', and project information including 'GENERAL NOTES SANITARY SEWER PLANS', 'SANITARY MIDDLE SCHOOL #4', 'SE BAILEY ROAD AND SE COUNTRY LANE', 'LEE'S SUMMIT, MISSOURI', and '2021'.

PUBLIC SANITARY SEWER AS-BUILTS 02.22.2023

Accepted Record Drawings. These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

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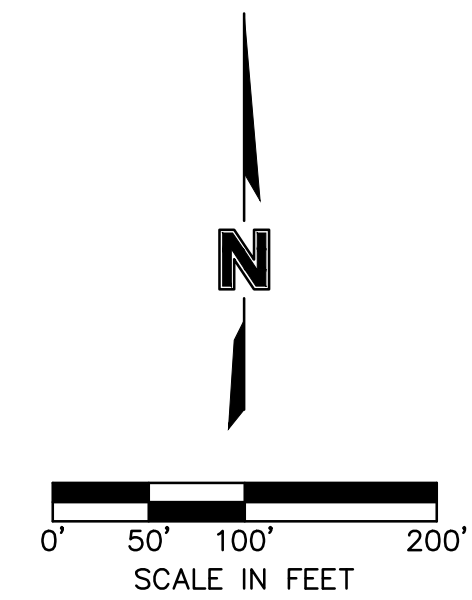
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**PUBLIC SANITARY SEWER  
 AS-BUILTS  
 02.22.2023**

**NOTE:**  
 EASEMENTS ARE NOT REQUIRED ON CITY PROPERTY PER CITY STATUTES.

**Accepted  
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**olsson**

7301 West 133rd Street, Suite 200  
 Overland Park, KS 66213-4750  
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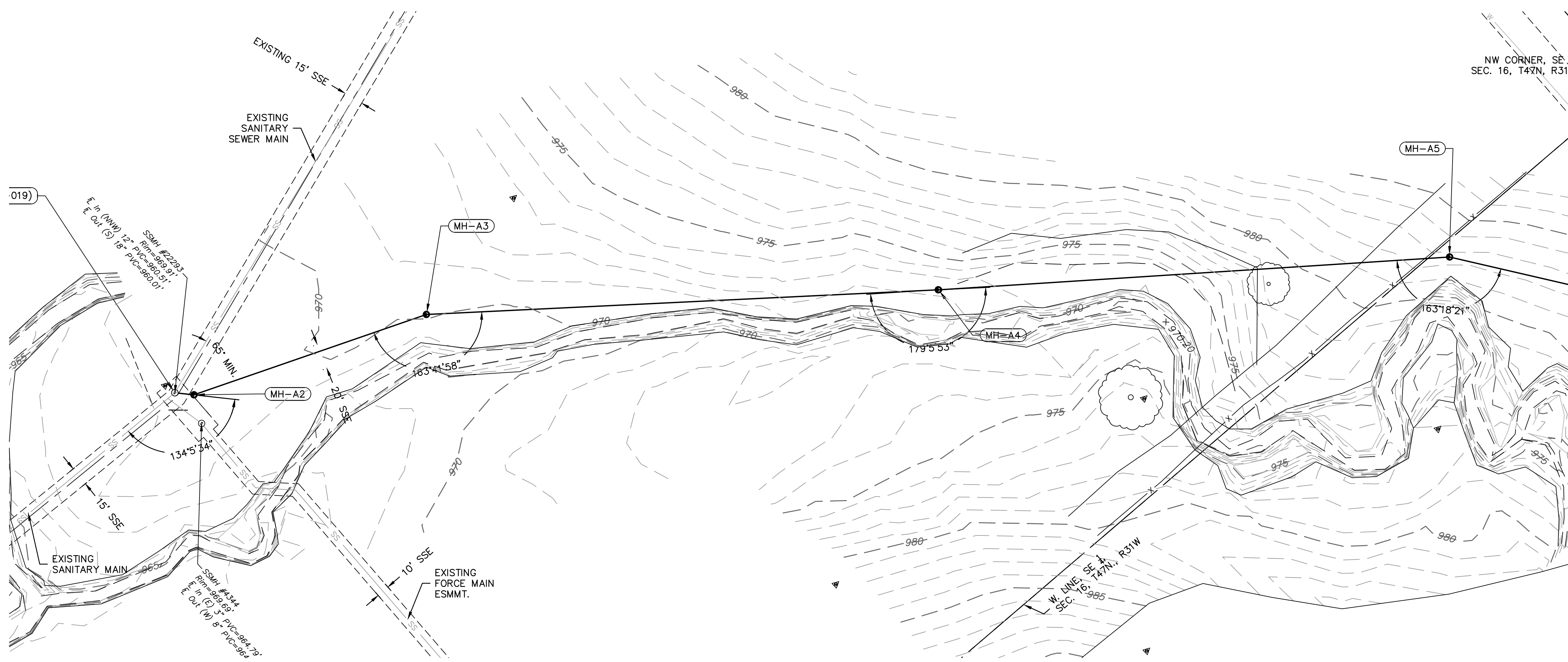


REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08.21.21	AS1033	RLK

GENERAL LAYOUT PLAN  
 SANITARY SEWER PLANS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILEY ROAD AND SE COUNTRY LANE  
 LEE'S SUMMIT, MISSOURI

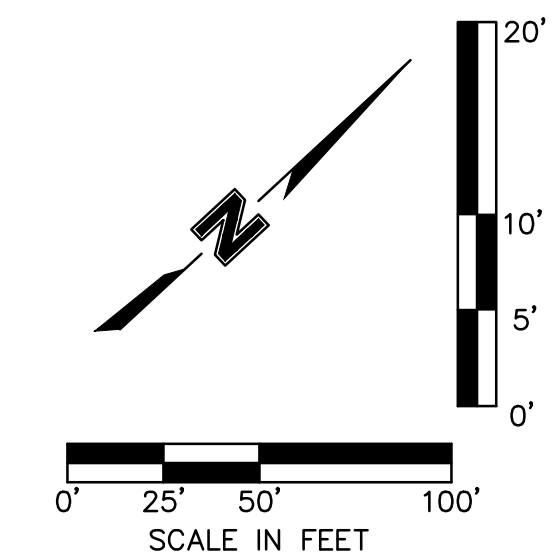
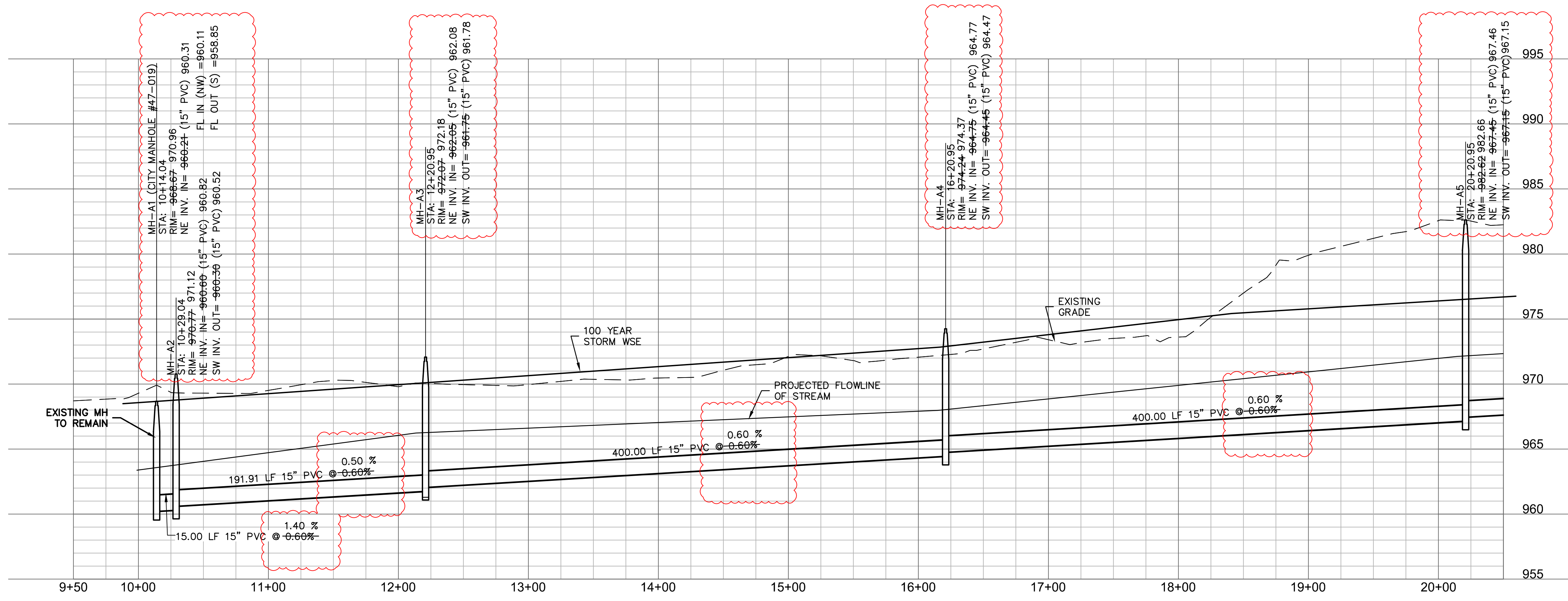
drawn by: \_\_\_\_\_ RLK  
 checked by: \_\_\_\_\_ BS  
 approved by: \_\_\_\_\_ TP  
 QA/QC by: \_\_\_\_\_ MP  
 project no.: 020-0103  
 drawing no.: C\_COV01\_0200103  
 date: 12.05.20

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**PUBLIC SANITARY SEWER  
 AS-BUILTS  
 02.22.2023**

STRUCTURES	
ID	DESCRIPTION
MH-A1 (CITY MANHOLE #47-019)	CONNECT TO EXISTING SANITARY MANHOLE 10+14.04, 0.00' SANITARY LINE A RIM= 968.67 INV IN = 960.21 (15" PVC) N: 989926.176; E: 2830832.008
MH-A2	INSTALL STD. 4' DIA. MH 10+29.04, 0.00' SANITARY LINE A RIM= 970.77 970.96 INV IN = 966.69 (15" PVC) 960.82 INV OUT = 966.36 (15" PVC) 960.52 N: 989935.982; E: 2830843.359
MH-A3	INSTALL STD. 4' DIA. MH 12+20.95, 0.00' SANITARY LINE A RIM= 972.07 972.18 INV IN = 962.05 (15" PVC) 962.08 INV OUT = 961.75 (15" PVC) 961.78 N: 990111.595; E: 2830920.741
MH-A4	INSTALL STD. 4' DIA. MH 16+20.95, 0.12' RT SANITARY LINE A RIM= 974.24 974.37 INV IN = 964.75 (15" PVC) 964.77 INV OUT = 964.45 (15" PVC) 964.47 N: 990417.571; E: 2831178.382
MH-A5	INSTALL STD. 4' DIA. MH 20+20.95, 0.00' SANITARY LINE A RIM= 982.62 982.66 INV IN = 967.45 (15" PVC) 967.46 INV OUT = 967.15 (15" PVC) 967.16 N: 990727.643; E: 2831431.081



**Accepted  
 Record Drawings**  
 These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

BY: \_\_\_\_\_  
 RLK

REV. NO.	DATE	REVISIONS DESCRIPTION
1	08.21.21	AS033

SANITARY SEWER PLAN & PROFILE  
 SANITARY SEWER PLANS

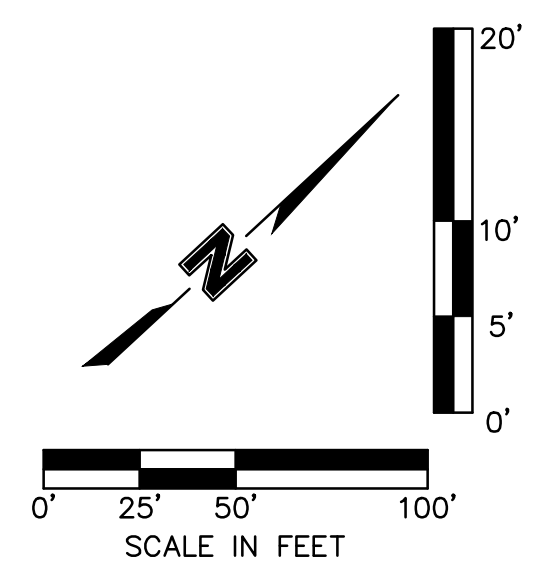
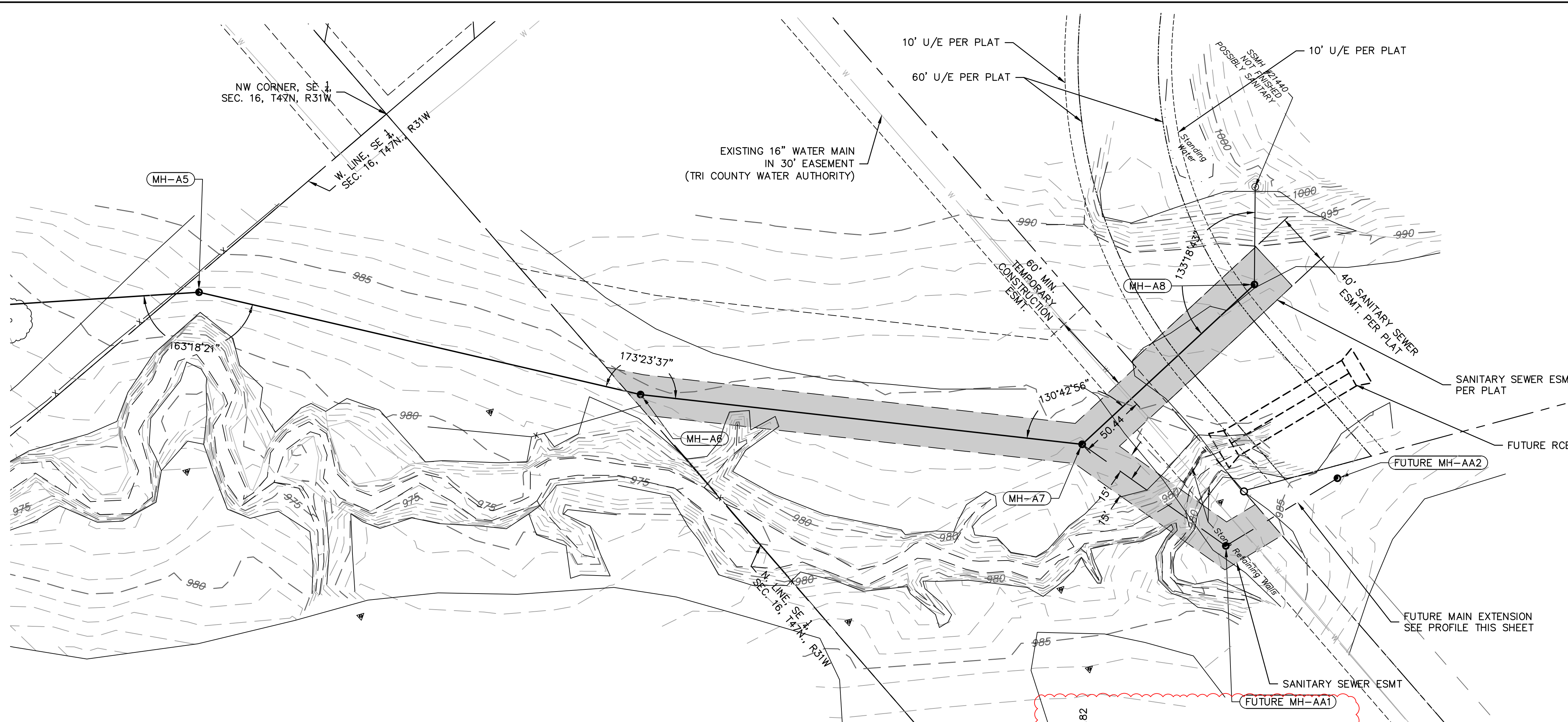
LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILLY ROAD AND SE COUNTRY LANE  
 LEE'S SUMMIT, MISSOURI

2021

drawn by: \_\_\_\_\_ RLK  
 checked by: \_\_\_\_\_ BS  
 approved by: \_\_\_\_\_ TP  
 QA/QC by: \_\_\_\_\_ MP  
 project no.: 020-0103  
 drawing no.: C\_SAN01\_0200103  
 date: 12.05.20

**SHEET**  
 4 of 7

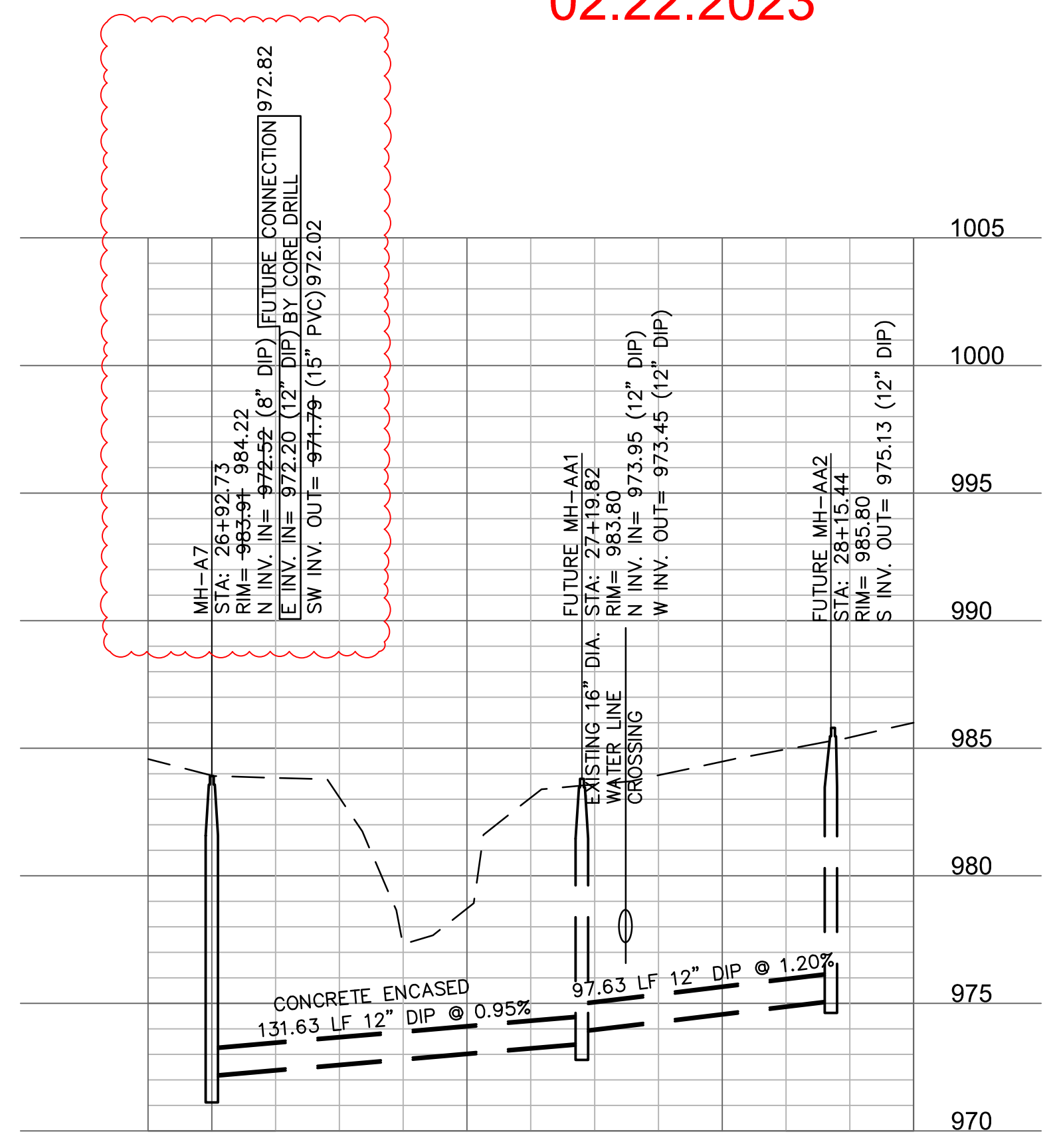
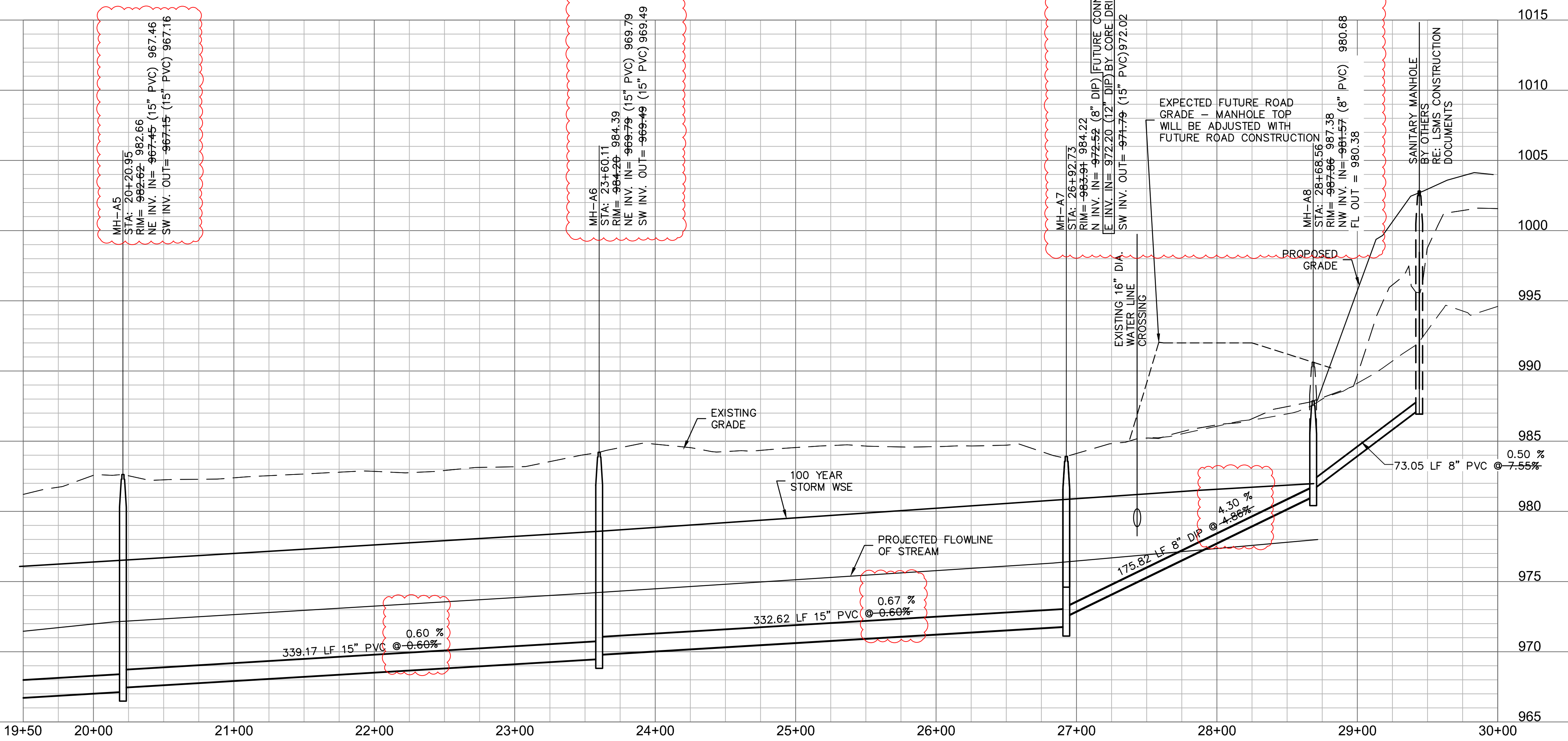
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**Accepted Record Drawings**  
 These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

**PUBLIC SANITARY SEWER  
 AS-BUILTS  
 02.22.2023**

STRUCTURES	
ID	DESCRIPTION
MH-A5	INSTALL STD. 4' DIA. MH 20+20.95, 0.00' SANITARY LINE A RIM = 982.62 982.66 INV IN = -967.45 (15" PVC) 967.46 INV OUT = -967.15 (15" PVC) 967.16 N: 990727.643; E: 2831431.081
MH-A6	INSTALL STD. 4' DIA. MH 23+60.11, 0.00' SANITARY LINE A RIM = 984.20 984.39 INV IN = -969.79 (15" PVC) 969.79 INV OUT = -969.49 (15" PVC) 969.49 N: 990917.839; E: 2831711.902
MH-A7	INSTALL STD. 4' DIA. MH 26+92.73, 0.00' SANITARY LINE A RIM = 983.91 984.22 INV IN = -972.52 (8" DIP) 972.82 INV OUT = -972.20 (12" DIP) N: 991134.809; E: 2831964.013
MH-A8	INSTALL STD. 4' DIA. MH 28+68.56, 0.00' SANITARY LINE A RIM = 987.86 987.38 INV IN = -981.52 (8" PVC) 980.68 INV OUT = -981.07 (8" DIP) 980.68



**PROFILE FOR PROPOSED FUTURE CONNECTION TO RESIDENTIAL DEVELOPMENT TO THE EAST**  
 NOTE: FUTURE MAIN UNDER THE STREAM SHALL BE EPOXY-COATED DUCTILE IRON PIPE WITH RESTRAINED JOINTS FROM MANHOLE TO MANHOLE. IT SHALL BE CONCRETE ENCASED PER CITY STANDARDS FROM BANK TO BANK. FUTURE CONNECTION TO MH-A7 WILL BE MADE BY CORE DRILL. A STUB WILL NOT BE ALLOWED.

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STATE OF MISSOURI  
 TERRY M. PARSONS  
 NUMBER PE-2018010505  
 12/21/2022  
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	08.21.21	AS033

**SANITARY SEWER PLAN & PROFILE  
 SANITARY SEWER PLANS**

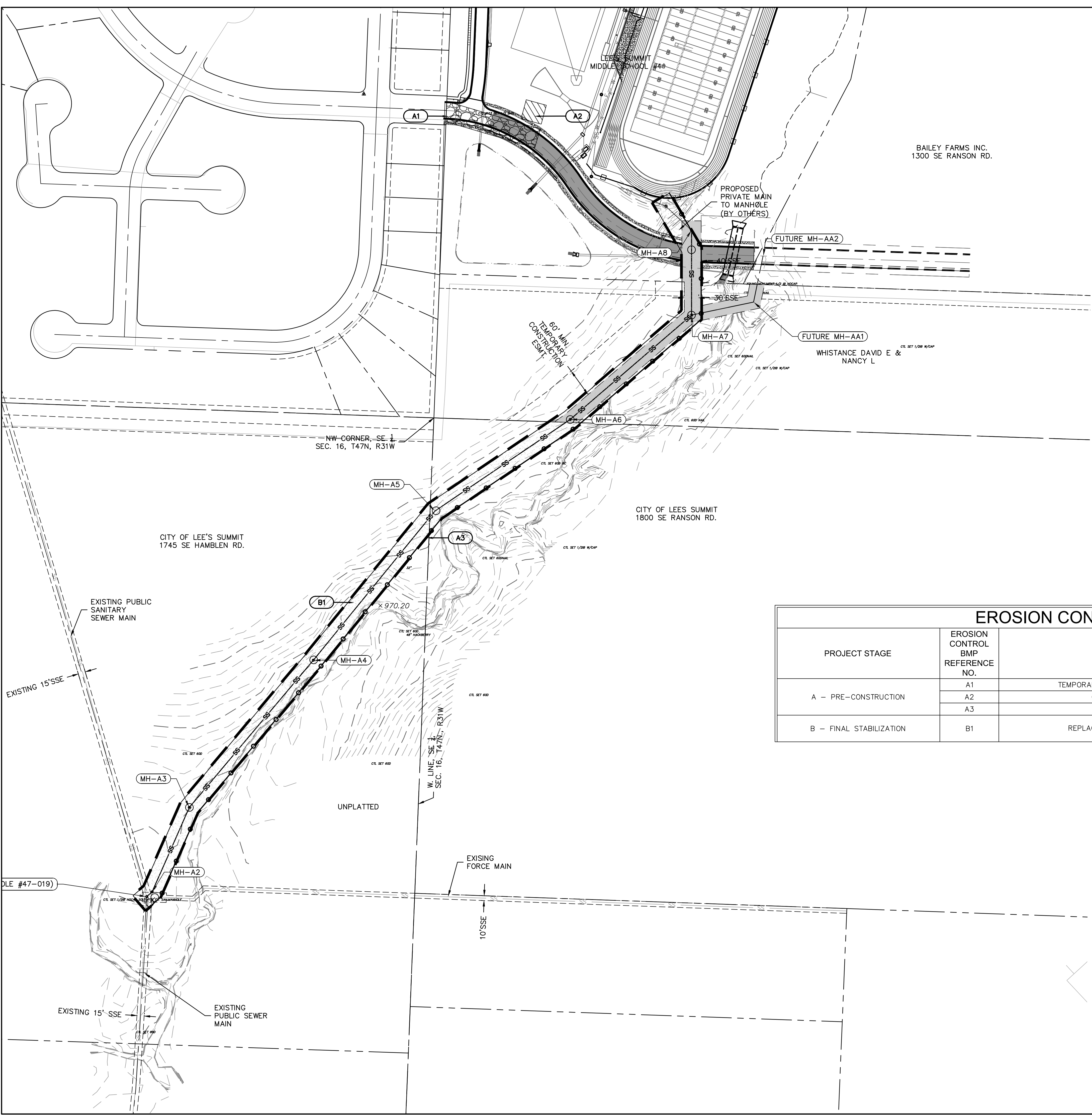
LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILLY ROAD AND SE COUNTRY LANE  
 LEE'S SUMMIT, MISSOURI

2021

drawn by: _____	RLK
checked by: _____	BS
approved by: _____	TP
QA/QC by: _____	MP
project no.: 020-0103	
drawing no.: C_SAND1_0200103	
date: 12.05.23	

**SHEET  
 5 of 7**

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**LEGEND**

- PROPERTY LINE
- 830 EXISTING CONTOUR
- 830 PROPOSED CONTOUR
- SEDIMENT FENCE
- LIMITS OF DISTURBANCE (2.60 ACRES +/-)
- EROSION CONTROL REFERENCE NUMBER
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE

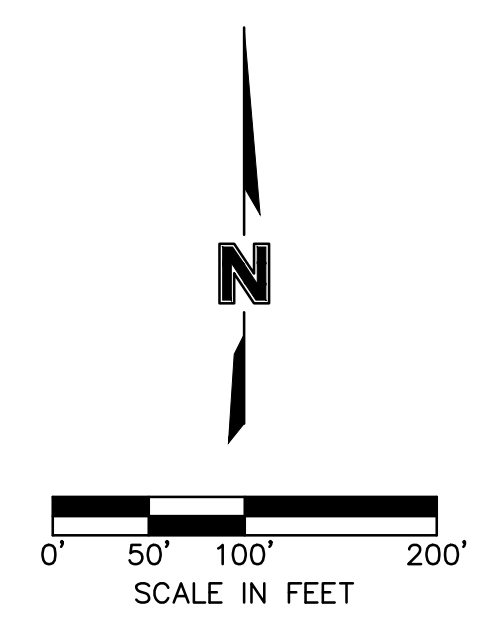
**PUBLIC SANITARY SEWER  
 AS-BUILTS  
 02.22.2023**

**Accepted  
 Record Drawings**

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**EROSION CONTROL STAGING CHART**

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	B	INSTALL AS INDICATED ON PLANS
	A2	CONCRETE WASHOUT	B	INSTALL AS INDICATED ON PLANS
	A3	SILT FENCE	B	INSTALL AS INDICATED ON PLANS
B - FINAL STABILIZATION	B1	REPLACE TOP SOIL, SEED MULCH	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.



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**PUBLIC SANITARY SEWER AS-BUILTS 02.22.2023**

REV. NO.	DATE	REVISIONS DESCRIPTION
1	08.21.21	AS033

EROSION CONTROL PLAN  
 SANITARY SEWER PLANS

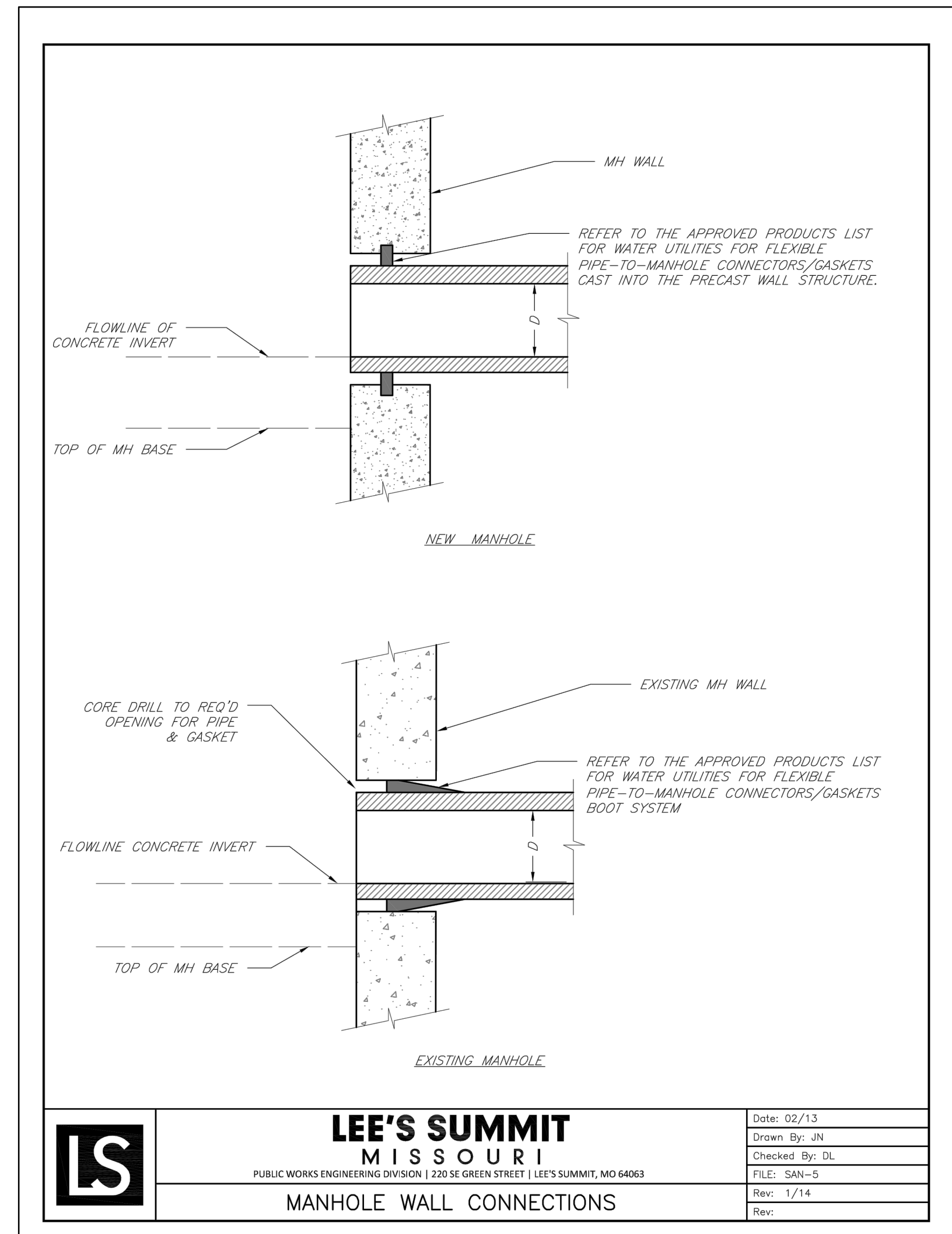
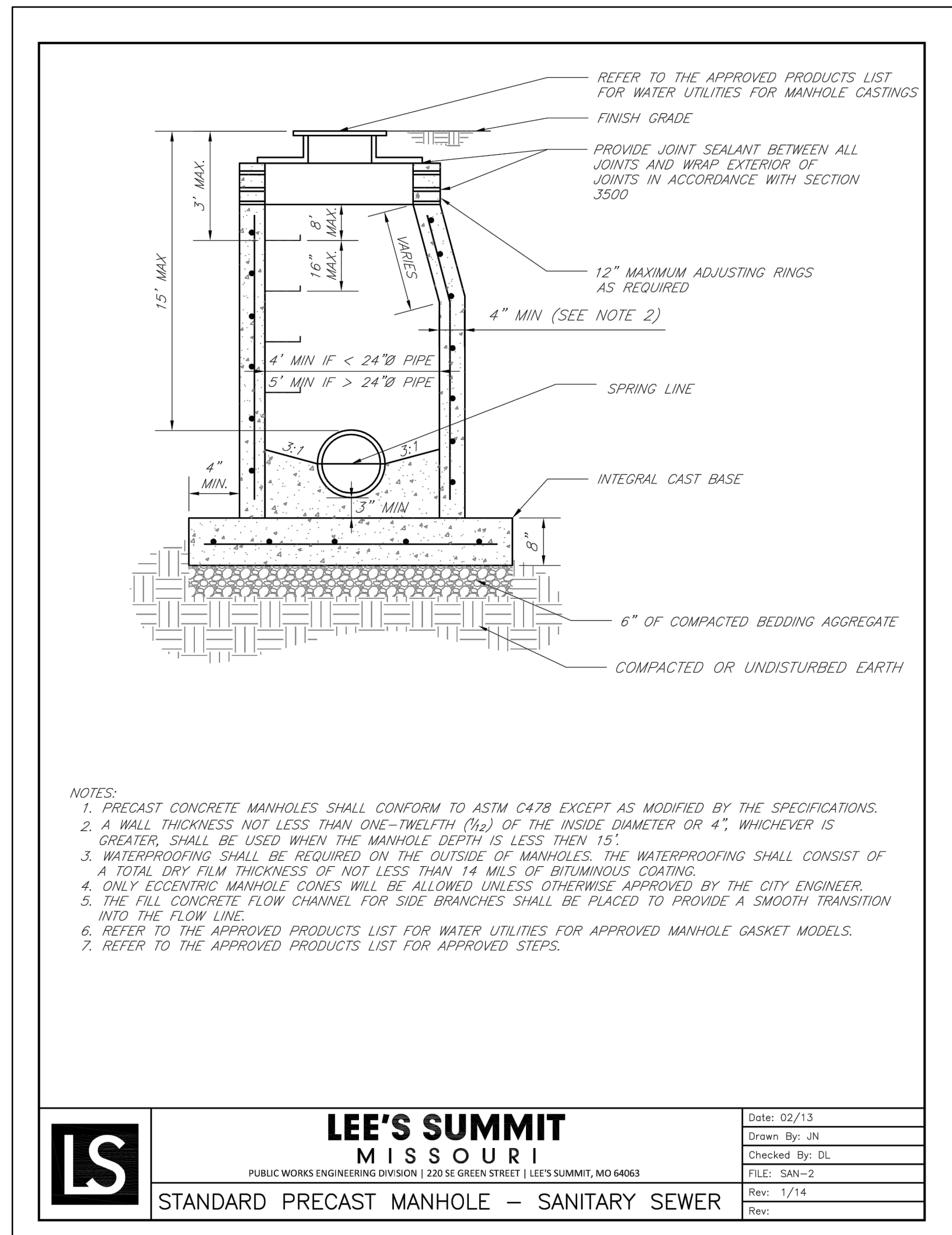
LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILEY ROAD AND SE COUNTRY LANE  
 LEE'S SUMMIT, MISSOURI

2021

drawn by: \_\_\_\_\_ RLK  
 checked by: \_\_\_\_\_ BS  
 approved by: \_\_\_\_\_ TP  
 QA/QC by: \_\_\_\_\_ MP  
 project no.: 020-0103  
 drawing no.: C\_ER001\_020103  
 date: 12.05.20

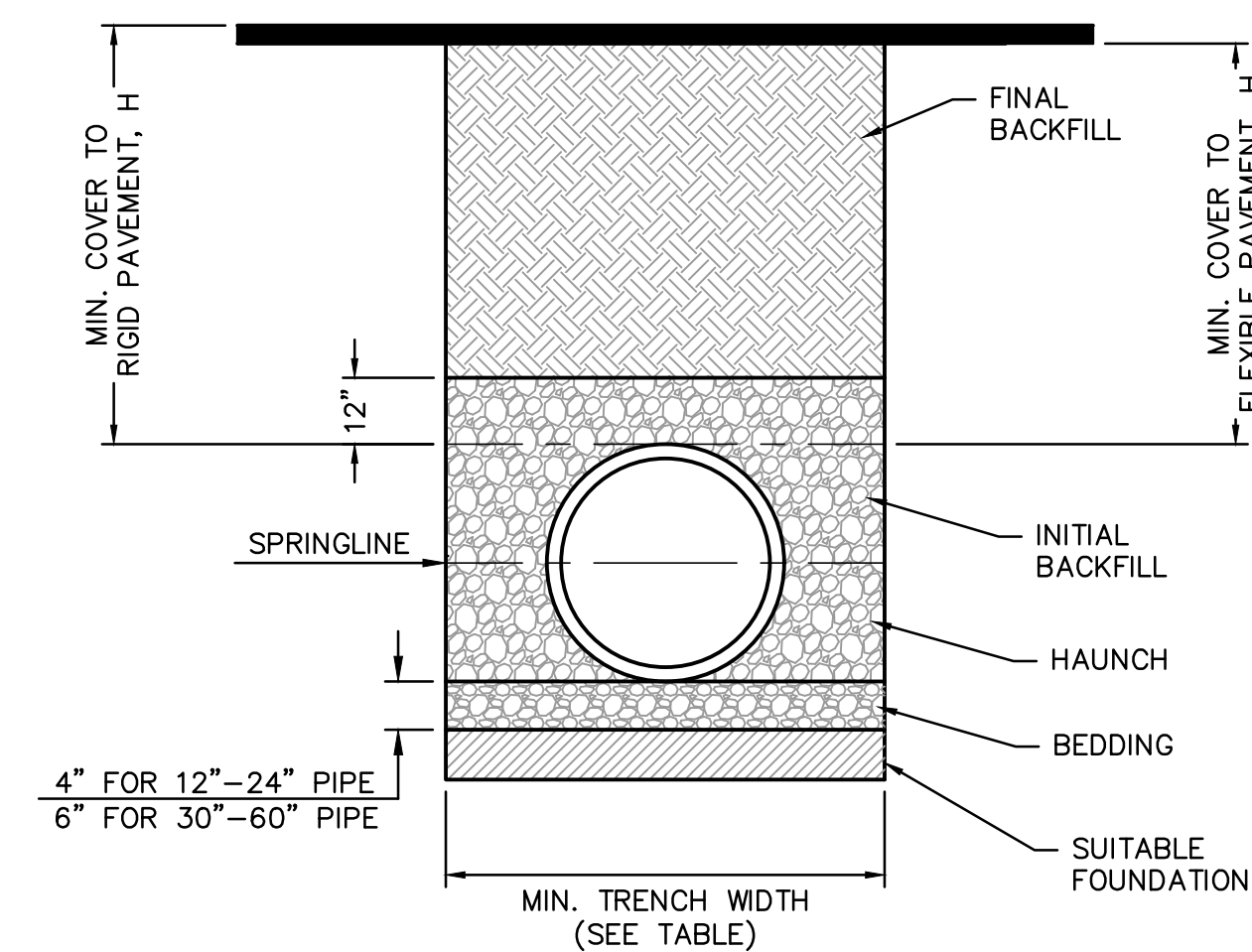
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 6 of 7

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 C:\PBASE\_020103 PSAN01\_020103



**PUBLIC SANITARY SEWER  
 AS-BUILTS  
 02.22.2023**

**Accepted  
 Record Drawings**  
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RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

\* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

\*\* COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE  
 \*\*\* E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

**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 ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. **FOUNDATION:** 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. **BEDDING:** 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. **INITIAL BACKFILL:** 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 FLOATATION. 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.

**TRENCHING DETAIL  
 NOT TO SCALE**



REV. NO.	DATE	REVISIONS DESCRIPTION
1	08.21.21	AS1033

STANDARD DETAILS  
 SANITARY SEWER PLANS

LEE'S SUMMIT MIDDLE SCHOOL #4  
 SE BAILEY ROAD AND SE COUNTRY LANE

LEE'S SUMMIT, MISSOURI

2021

drawn by: RLK  
 checked by: BS  
 approved by: TP  
 QA/QC by: MP  
 project no.: 020-0103  
 drawing no.: C-DTL01\_020103  
 date: 12.05.20

REVISIONS

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