

COBEY CREEK - 1ST PLAT

SANITARY SEWER MAIN EXTENSION

NE & SE $\frac{1}{4}$, SECTION 29 & NW $\frac{1}{4}$ SECTION 28,
TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

GENERAL NOTES

- The underground utilities shown herein have been plotted from available information and do not necessarily reflect the actual existence, or nonexistence, size, type, number, or locations of these or other utilities. The contractor shall be responsible for verifying the actual locations of all underground utilities, shown or not shown, and said utilities shall be located in the field prior to any grading, excavation, or construction of improvements. These provisions shall in now way absolve any party from complying with the "UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT", Chapter 319, RSMO.
- Gas, Water, and other Utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers, including building laterals.
- The Contractor shall secure all required permits and notify the Development Services - Inspection Group of the City of Lee's Summit (816-969-1200) at least 48 hours prior to any construction.
- Prior to submittal of construction bids, the Contractor shall be required to visit the site to verify existing conditions and proposed improvements.
- All construction materials and methods used shall comply with the latest editions of the City of Lee's Summit "DESIGN AND CONSTRUCTION MANUAL" as adopted by City Ordinance NO. 5813. See said Manual for standard details.
- The Contractor shall be responsible for notification and coordination with all Utility Companies.
- The Contractor shall notify the Engineer immediately of any discrepancies in the plans.
- "Controlled Fill" indicates fill to be placed in accordance with APWA Section 2100 for grading and site preparation, with APWA Section 2200 for street construction (paving), with APWA Section 2500 for sanitary sewer construction and with APWA Section 2600 for storm sewer construction unless otherwise noted.
- All sanitary manholes shall have a 4' inside diameter unless otherwise noted.
- All disturbed areas to be seeded upon completion of construction.

EXISTING SANITARY SEWER ASSUMPTIONS

- Existing sanitary sewer at Point of Connection = 24" PVC at 0.45%.
- Depth of flow at Point of Connection for fully developed watershed to be critical depth.
- Y(c) from "Modern Sewer Design", Figure 3-24, critical flow and critical velocity in circular conduits.

Point of Connection 24" PVC at 0.45% Capacity = 14.0 cfs
Y(c) / D = .60, depth of flow = 15" = 1.25'

PROPOSED SANITARY SEWER ASSUMPTIONS

- Sanitary sewers provide service for this plan only
- Design flow rate of 0.02 cfs / acre per City Staff Recommendation.

DESIGN FLOWS

Drainage Area	Acreage	Design Flow (cfs)	Total Design Flow (cfs)
Commercial	13.75	0.02	0.67
Residential	83.53	0.02	0.80
			Total 1.47

UTILITIES

City of Lee's
Summit
Department of
Public Works
220 SE Green
Lee's Summit,
Mo.
816-969-1800

KCPL
130 SE Hamblen
Road
Lee's Summit,
Mo.
816-347-4320
Missouri One Call
1-800-344-7483

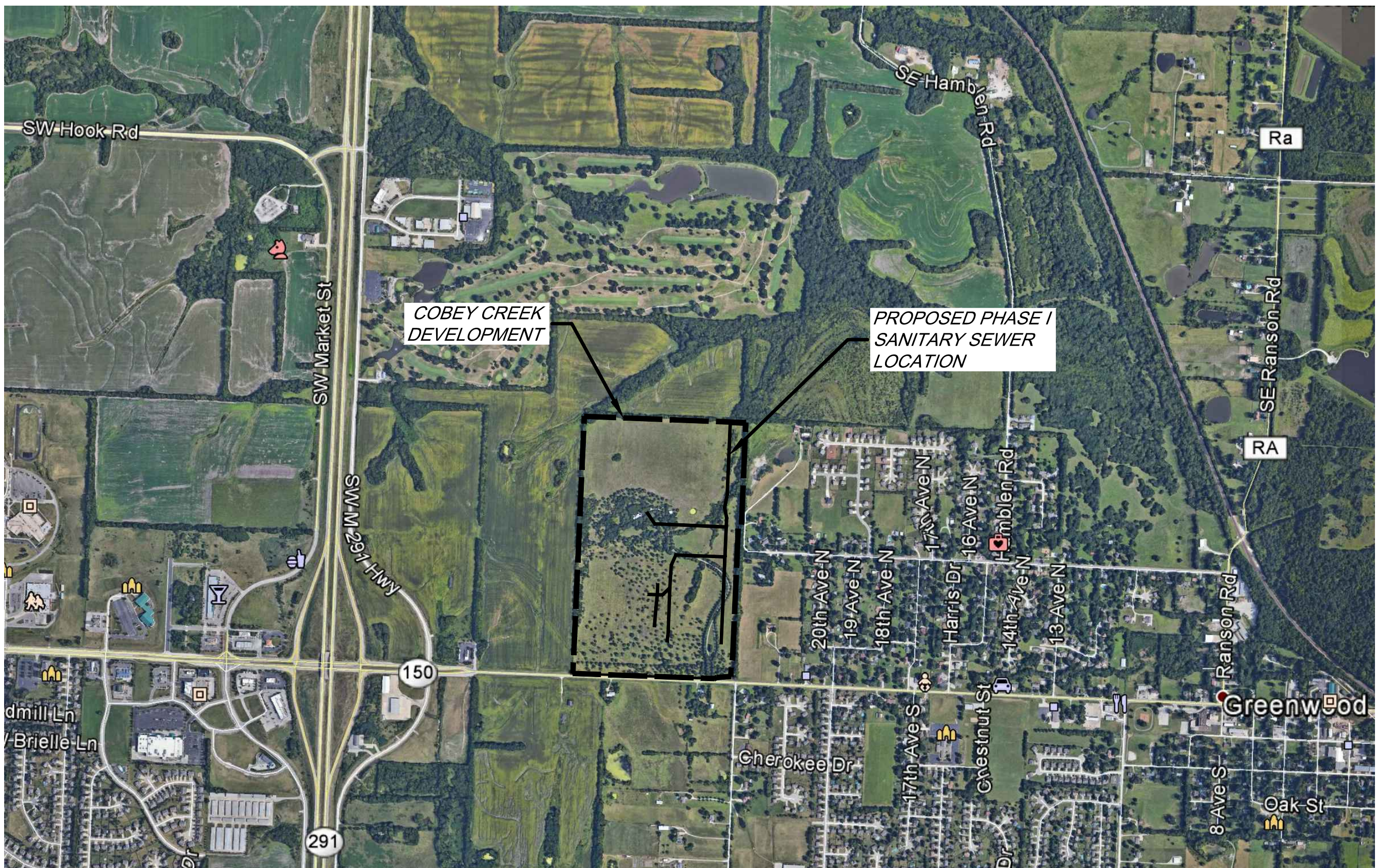
Missouri Gas
Energy
3025 SE Clover
Road
Lee's Summit,
Mo.
816-537-4681

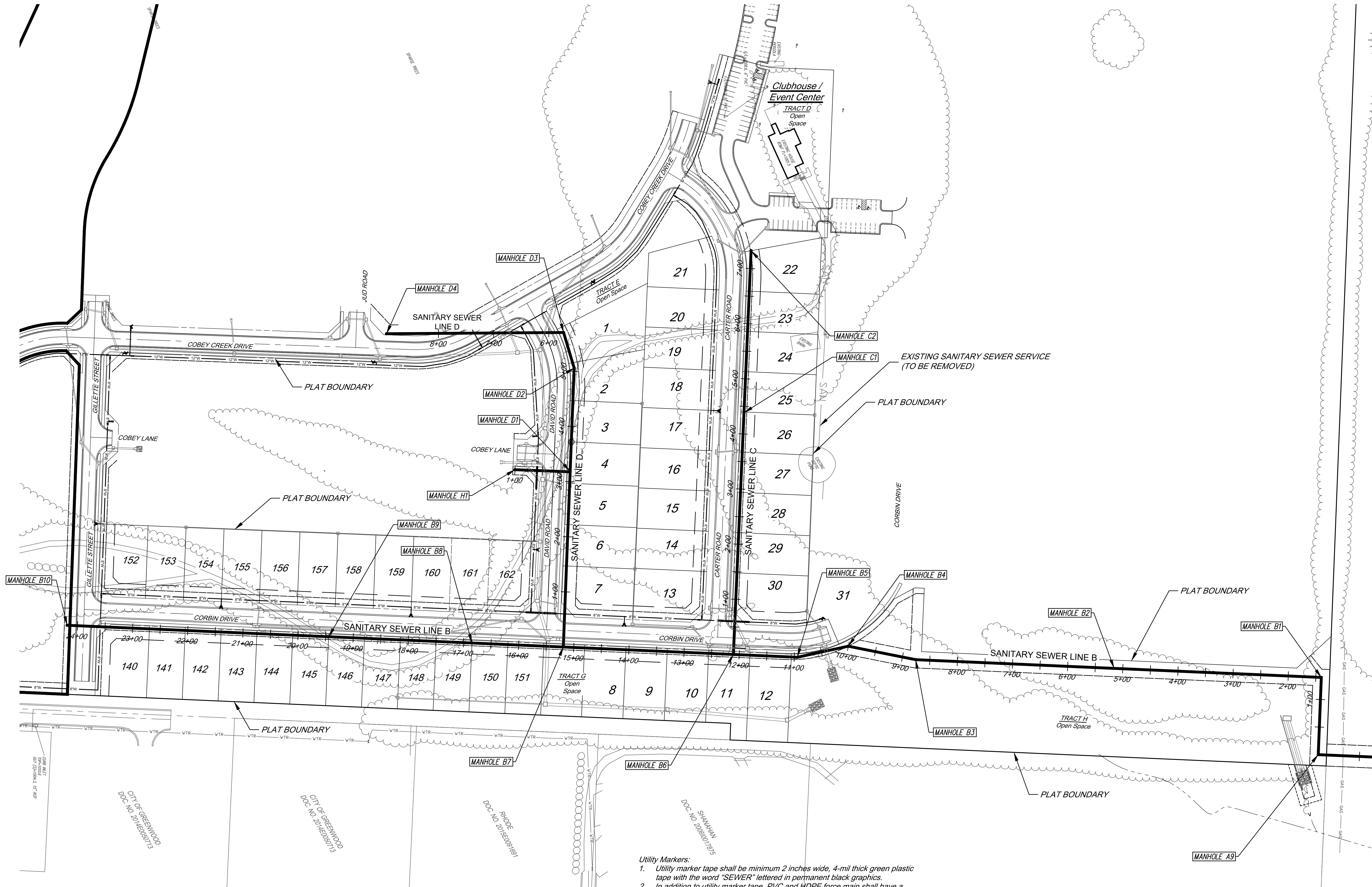
Time Warner
6550 Winchester
Avenue
Kansas City, Mo.
913-643-1901

AT&T
215 N. Spring
Independence,
Mo.
816-325-5610

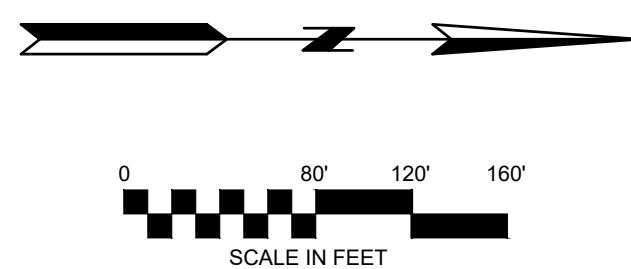


Know what's below.
Call before you dig.





- Utility Markers:
- Utility marker tape shall be minimum 2 inches wide, 4-mil thick green plastic tape with the word "SEWER" lettered in permanent black graphics.
 - In addition to utility marker tape, PVC and HDPE force main shall have a tracer wire installed along the top of the pipe. The wire shall be insulated, no smaller than 12 gauge, and for underground applications.
 - Splices in wiring shall be made with epoxy/silicon splice connector.
 - Tracer wire shall be installed along the top of service laterals. The wire shall have HDPE insulation, be no smaller than 12 gauge, and intended for underground applications. The tracer wire shall be green in color. Tracer wires shall terminate at 3500 11 Rev 01/06/16 the ground surface inside a tracer box. Tracer box lids shall be green in color. Tracer wire shall be grounded to a minimum one pound magnesium anode at the sewer line.



AS-BUILT
02/19/21



DATE	REVISION	NO.	BY	CHK/APR
02/19/21	AS-BUILT	5	SPW	RKS
09/20/20	REVISED SANITARY LATERAL TABLES	4	SPW	RKS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	3	SPW	RKS
02/20/19	REV CITY'S COMMENTS	2	SPW	RKS
02/08/19	REV CITY'S COMMENTS	1	SPW	RKS
11/27/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	SPW	RKS



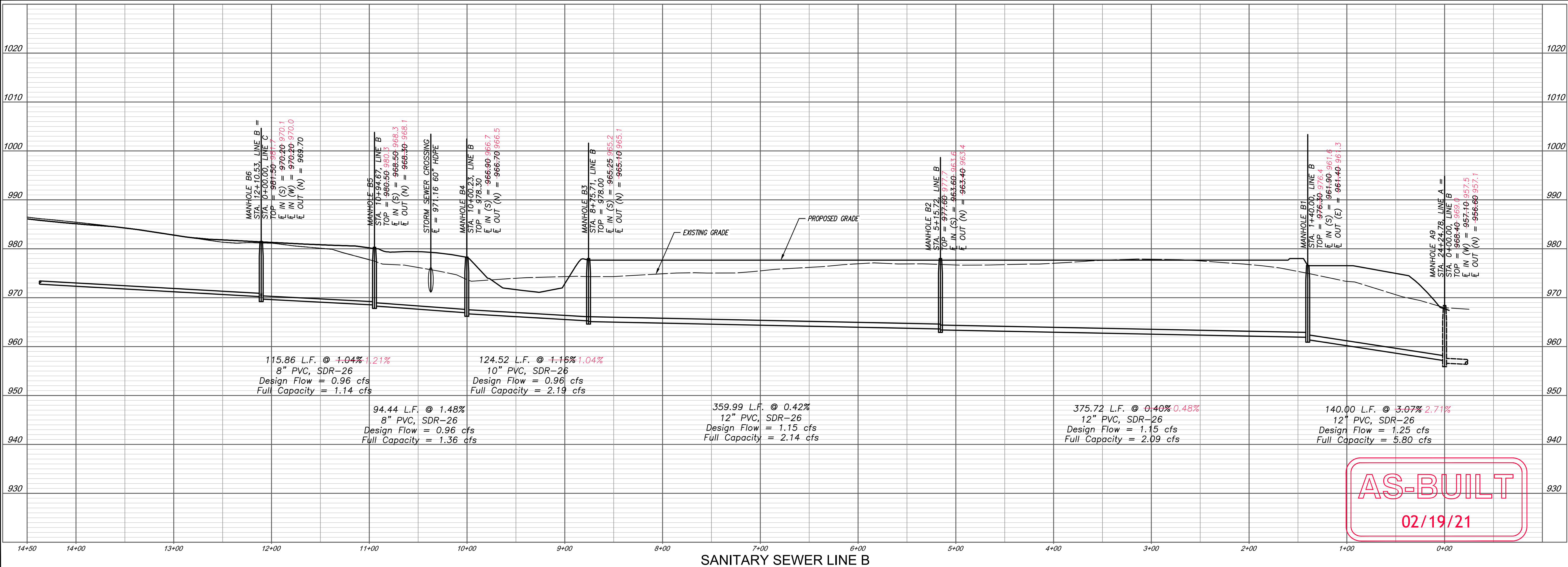
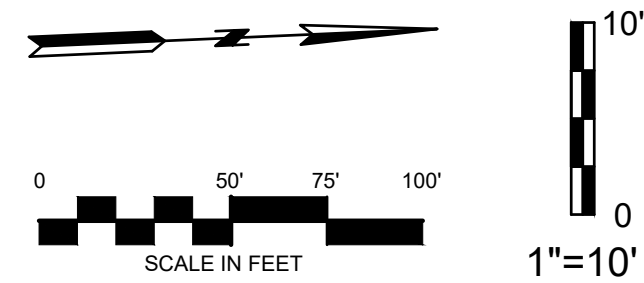
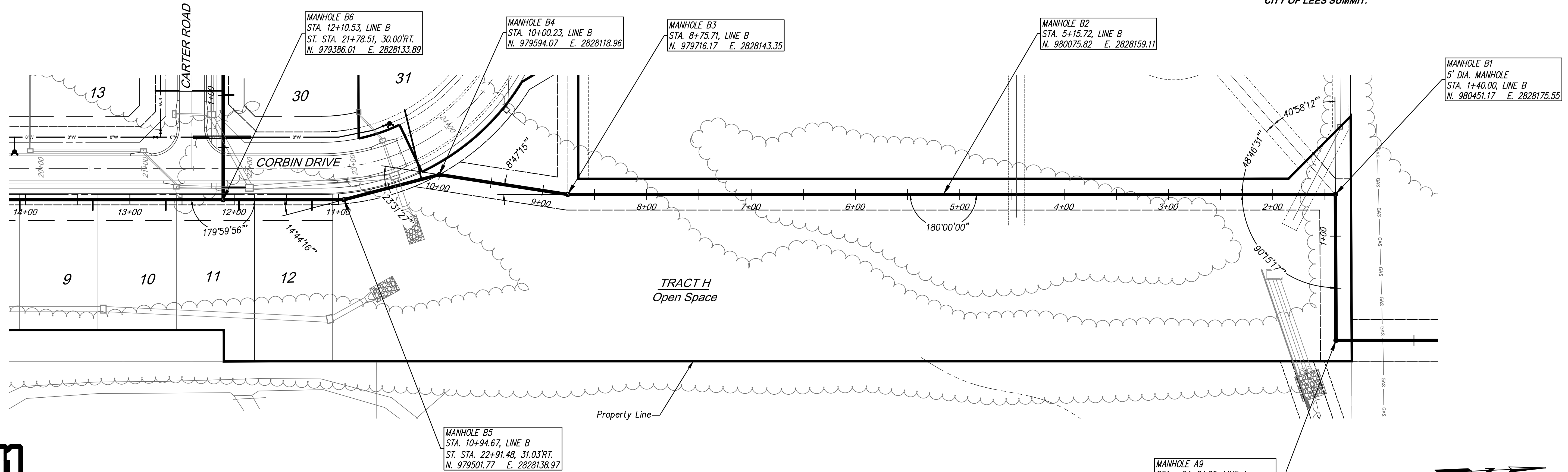
igconsult
Inc
engineers
planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

**SANITARY SEWER MAIN EXTENSION
GENERAL UTILITY LAYOUT**
COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO. 16-059 Base	2	11
DRAWING NO. 16-059 Phase I Sanitary		
DATE September 8, 2020		
JOB NO. 16-059		
SHEET OF		



Know what's below.
Call before you dig.



DATE	REVISION	NO.	BY	CURVE
02/19/21	AS-BUILT		SPW	RAS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	4	SPW	RAS
02/20/19	PER CITY'S COMMENTS	3	SPW	RAS
02/06/19	PER CITY'S COMMENTS	2	SPW	RAS
01/21/19	PER CITY'S COMMENTS	1	SPW	RAS
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT		SPW	RAS

STATE OF MISSOURI
Professional Engineer
R. Kevin Sterrett, MO E-26440
September 9, 2020

consult inc
engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE NO. E201000373 (MO.) / E-1736 (KS.)

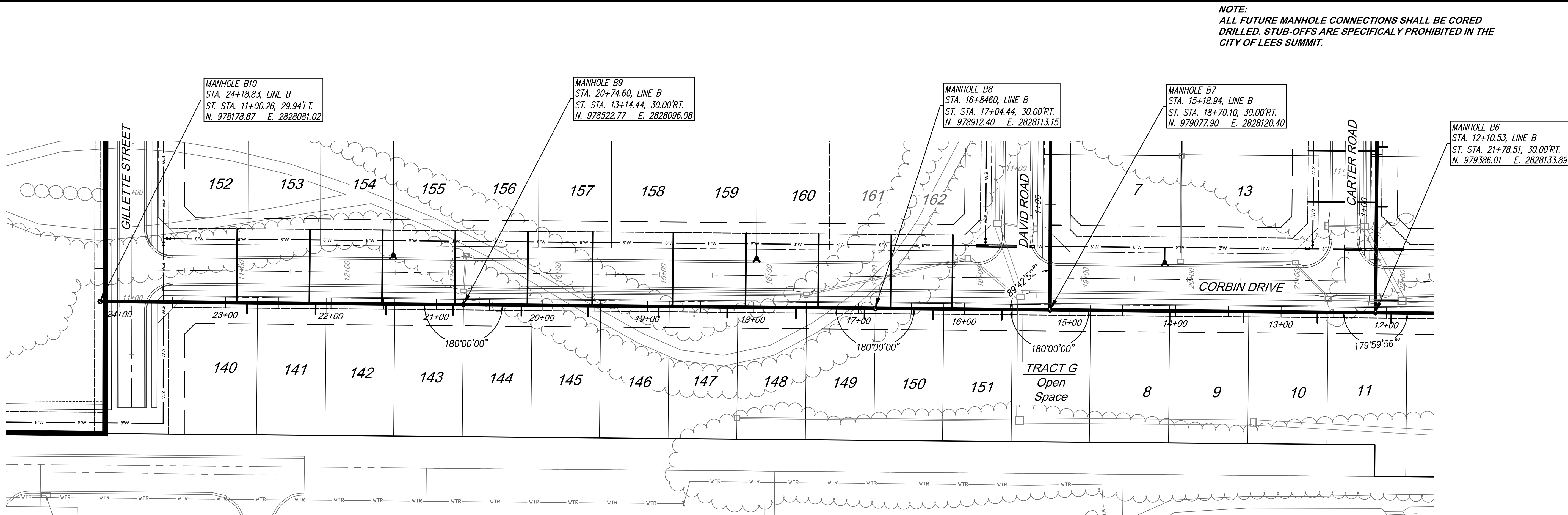
SANITARY SEWER MAIN EXTENSION
PLAN AND PROFILE
COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
16-059 Base
DRAWING NO.
16-059 Phase I Sanitary
DATE
April 16, 2019
328 NO.
16-059

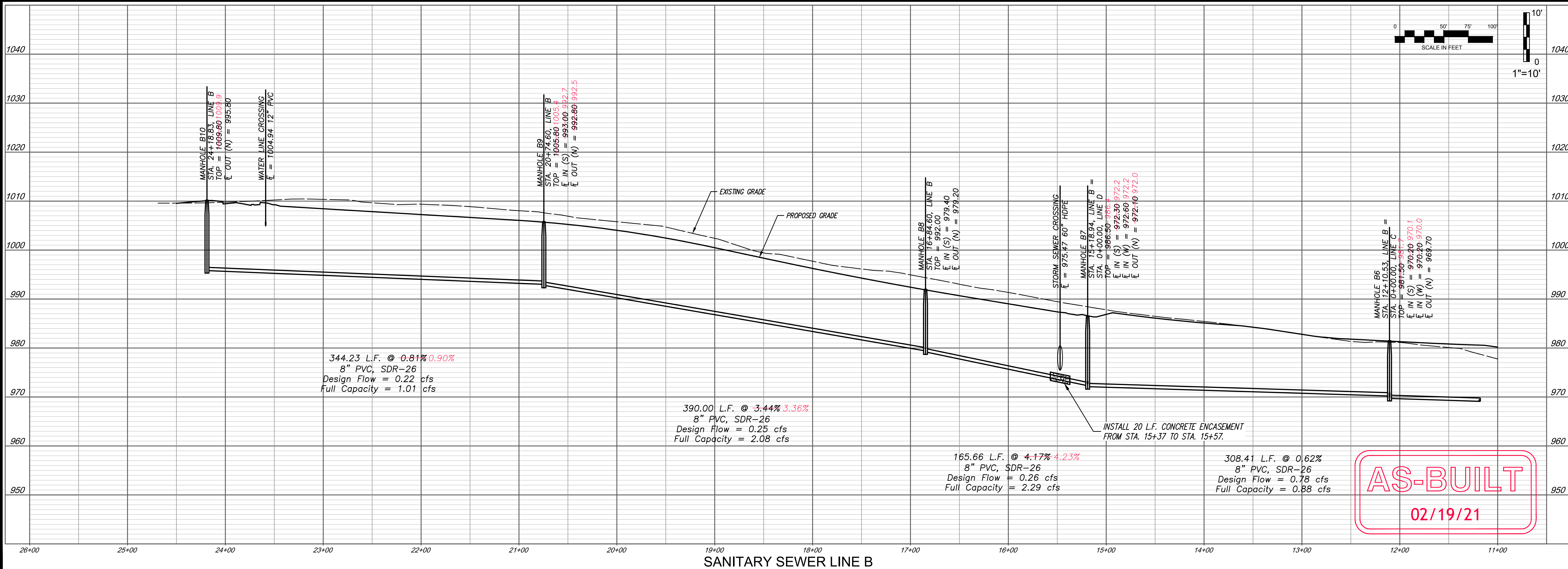
3 SHEET OF 11



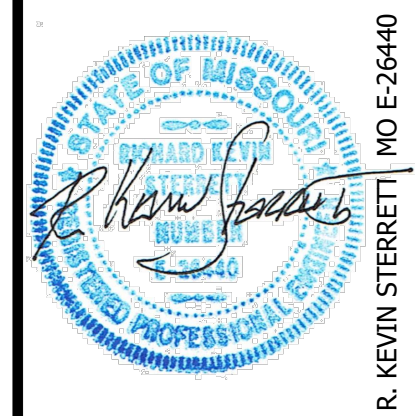
Know what's below.
Call before you dig.



NOTE:
TRENCH CHECKS WILL BE INSTALLED PER THE LEES
SUMMIT STANDARD DETAIL SHOWN ON SHEET 10.



DATE	REVISION	NO.	BY	CURVE
02/19/21	AS-BUILT		SPW	RAS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCASUREMENT	4	SPW	RAS
02/20/19	PER CITY'S COMMENTS	3	SPW	RAS
02/06/19	PER CITY'S COMMENTS	2	SPW	RAS
07/21/18	PER CITY'S COMMENTS	1	SPW	RAS
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT		SPW	RAS



gconsult inc
engineers planners

11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE NO. E201000373 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION
PLAN AND PROFILE

COBEY CREEK FIRST PLAT

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
16-059 Base

DRAWING NO.
16-059 Phase I Sanitary

DATE
April 16, 2019

SHEET NO.
16-059

4 SHEET OF 11

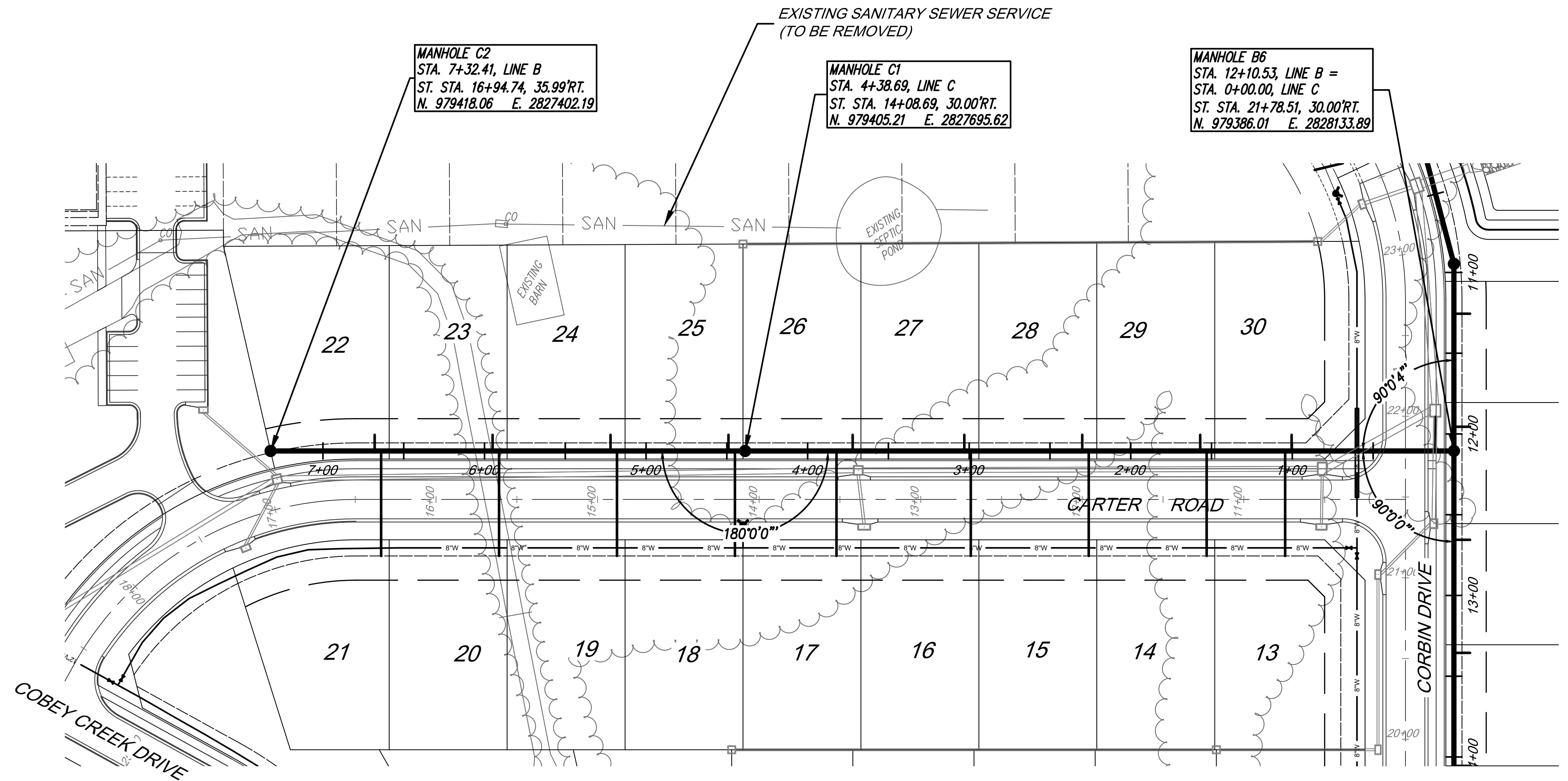
MANHOLE H1
STA. 1+00.00, LINE H
ST. STA. 12+87.17, 69.99'L.T.
N. 978990.29 E. 2827799.09

MANHOLE D1
STA. 3+18.58, LINE D =
STA. 0+00.00, LINE H
ST. STA. 12+88.58, 30.00'RT.
N. 979090.25 E. 2827802.06

MANHOLE C2
STA. 7+32.41, LINE B
ST. STA. 16+94.74, 35.99'RT.
N. 979418.06 E. 2827402.19

MANHOLE C1
STA. 4+38.69, LINE C
ST. STA. 14+08.69, 30.00'RT.
N. 979405.21 E. 2827695.62

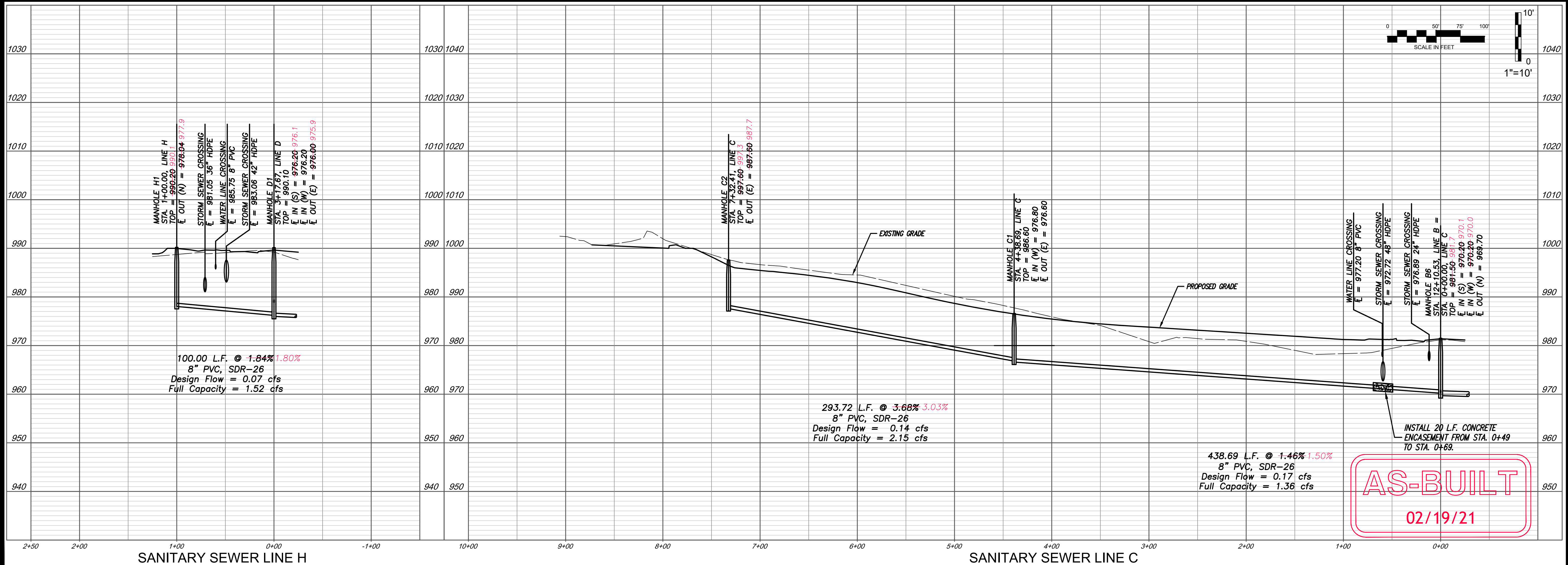
MANHOLE B6
STA. 12+10.53, LINE B =
STA. 0+00.00, LINE C
ST. STA. 21+78.51, 30.00'RT.
N. 979386.01 E. 2828133.89



Know what's below.
Call before you dig.

NOTE:
TRENCH CHECKS WILL BE INSTALLED PER THE LEES
SUMMIT STANDARD DETAIL SHOWN ON SHEET 10.

NOTE:
ALL FUTURE MANHOLE CONNECTIONS SHALL BE CORED
DRILLED. STUB-OFFS ARE SPECIFICALLY PROHIBITED IN THE
CITY OF LEES SUMMIT.



DATE	REVISION	NO.	BY	CURVE
02/19/21	AS-BUILT	1	SPW	RWS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCASUREMENT	4	SPW	RWS
02/20/19	PER CITY'S COMMENTS	3	SPW	RWS
02/08/19	PER CITY'S COMMENTS	2	SPW	RWS
07/21/18	PER CITY'S COMMENTS	1	SPW	RWS
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT	1	SPW	RWS



g Inc
consult
Inc
engineers
planners

11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE NO. E20100373 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION
PLAN AND PROFILE

COBEY CREEK FIRST PLAT

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
16-059 Base

DRAWING NO.
16-059 Phase I Sanitary

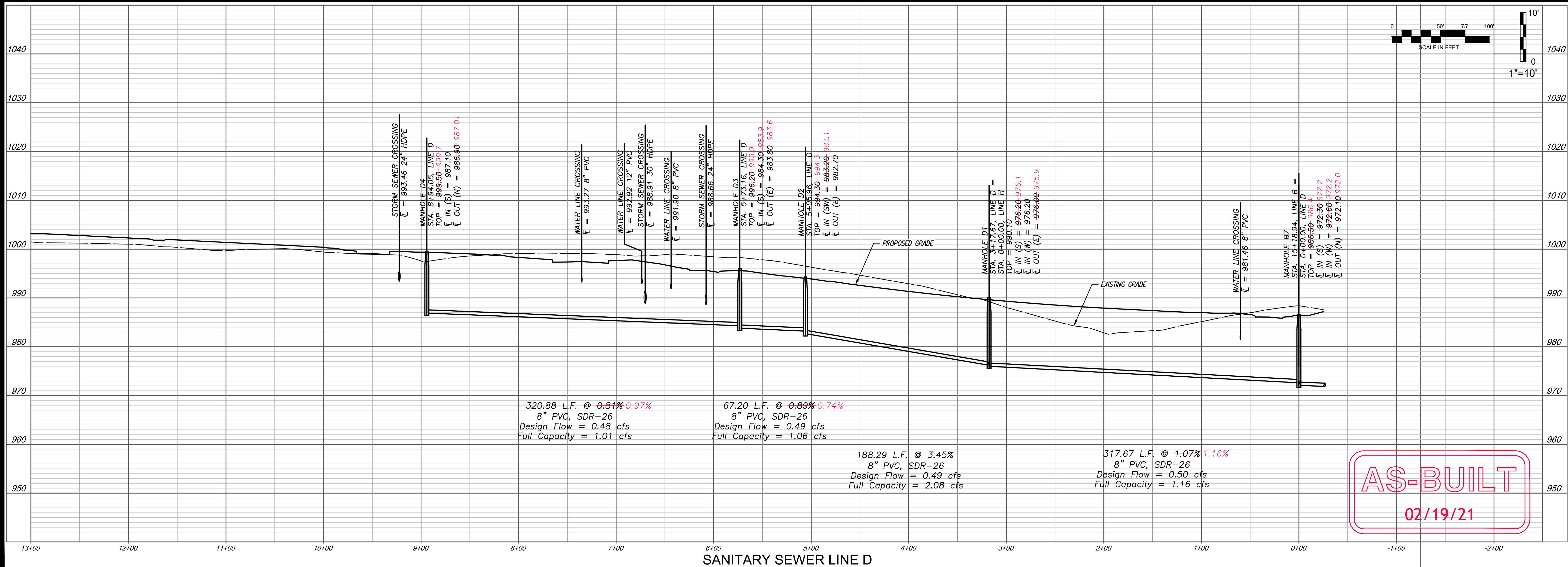
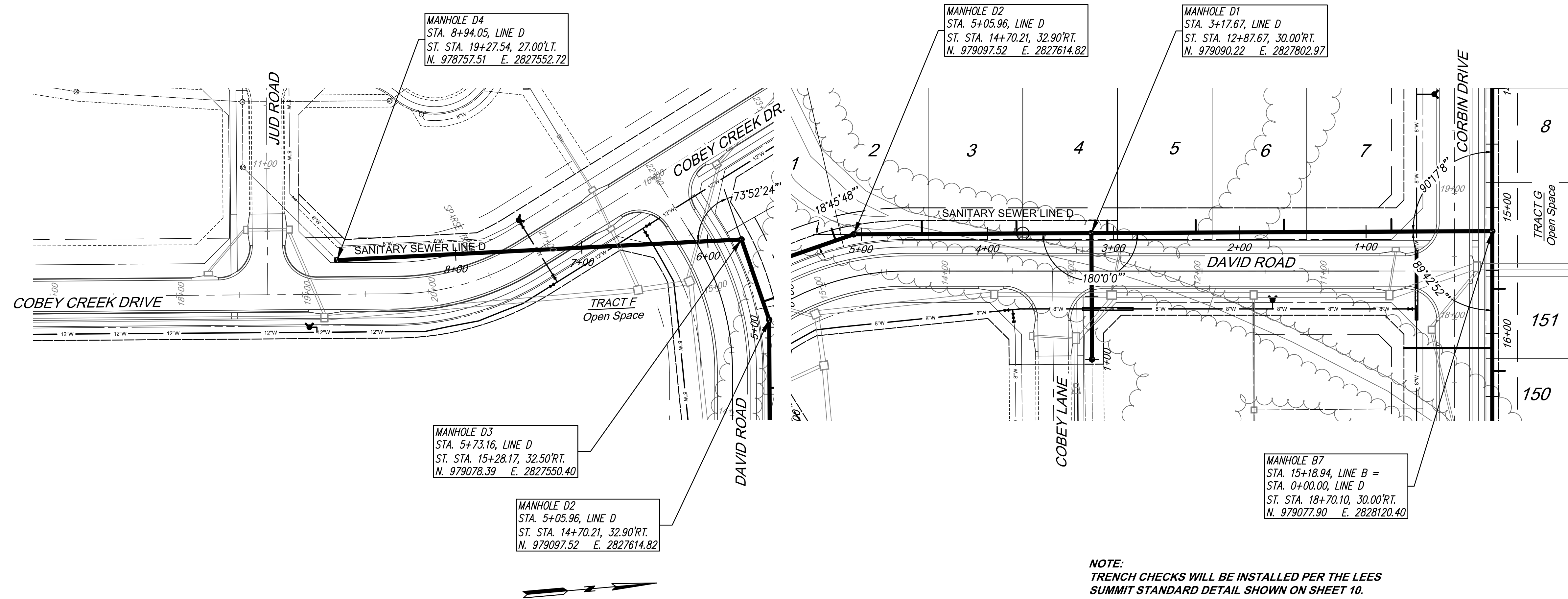
DATE
April 16, 2019

SHEET NO.
16-059

5 11



Know what's below.
Call before you dig.



AS-BUILT
02/19/21

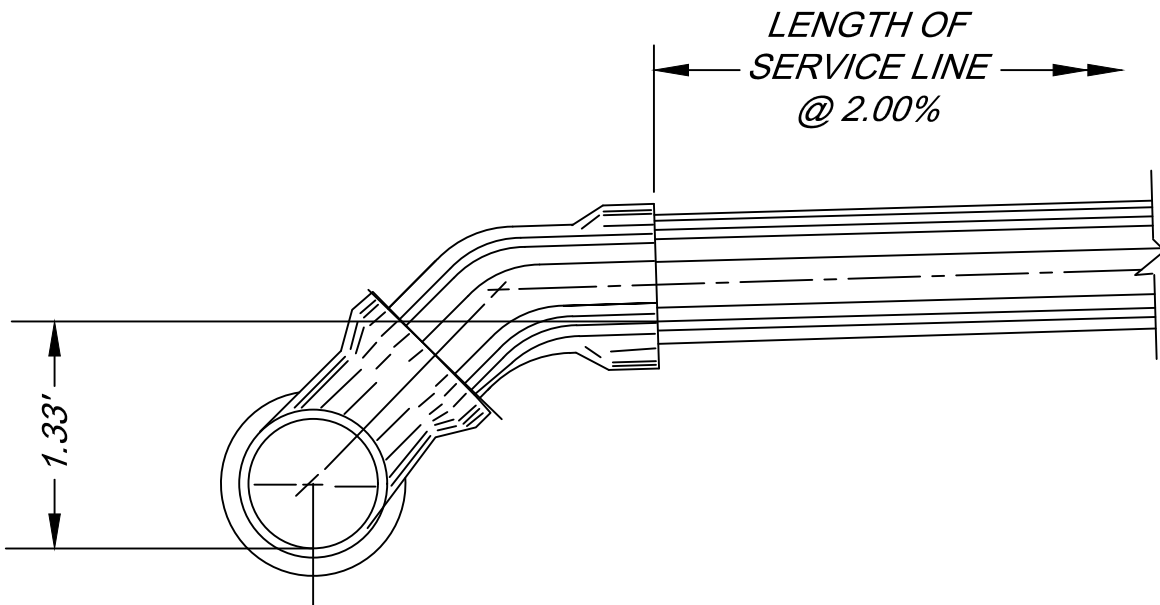
DATE	REVISION	NO.	BY	CURVE
02/19/21	AS-BUILT		SPW	RAS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	4	SPW	RAS
02/20/19	PER CITY'S COMMENTS	3	SPW	RAS
02/06/19	PER CITY'S COMMENTS	2	SPW	RAS
07/27/18	PER CITY'S COMMENTS	1	SPW	RAS
11/27/18	SUBMITTAL TO CITY OF LEES SUMMIT		SPW	RAS



consult inc
engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE NO. E201000373 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION PLAN AND PROFILE COBEY CREEK FIRST PLAT LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	X-REF NO. 16-059 Base DRAWING NO. 16-059 Phase I Sanitary DATE April 16, 2019 JOB NO. 16-059
6	SHEET OF 11

SHEET	SANITARY LINE NO.	SANITARY STATION	LOT NO.	LATERAL LENGTH (LF)	FLOWLINE AT END	TEE / WYE	SHEET	SANITARY LINE NO.	SANITARY STATION	LOT NO.	LATERAL LENGTH (LF)	FLOWLINE AT END	TEE / WYE	SHEET	SANITARY LINE NO.	SANITARY STATION	LOT NO.	LATERAL LENGTH (LF)	FLOWLINE AT END	TEE / WYE
3	B	10+18	31	69	969.87	TEE	5	C	1+00	30	10	973.19	TEE	6	D	0+80	7	10	974.99	TEE
3	B	11+26	12	10	970.35	TEE	5	C	1+04	13	65	974.35	TEE	6	D	1+65	6	10	975.89	TEE
3	B	11+95	11	10	971.07	TEE	5	C	1+53	14	65	975.06	TEE	6	D	2+35	5	10	976.64	TEE
4	B	12+65	10	10	972.07	TEE	5	C	1+57	29	10	974.02	TEE	6	D	3+05	4	10	977.39	TEE
4	B	13+35	9	10	972.50	TEE	5	C	2+26	15	65	976.13	TEE	6	D	3+75	3	10	979.71	TEE
4	B	14+05	8	10	972.93	TEE	5	C	2+30	28	10	975.09	TEE	6	D	4+45	2	10	982.13	TEE
							5	C	2+99	16	65	975.89	TEE	6	D	5+14	1	10	984.80	TEE
4	B	15+64	151	10	975.71	TEE	5	C	3+03	27	10	976.15	TEE							
4	B	16+11	162	70	978.87	TEE	5	C	3+72	26	10	977.16	TEE							
4	B	16+29	150	10	978.41	TEE	5	C	3+82	17	65	978.40	TEE							
4	B	16+69	161	70	981.28	TEE	5	C	4+45	18	65	979.66	TEE							
4	B	16+94	149	10	981.25	TEE	5	C	4+49	25	10	978.71	TEE							
4	B	17+38	160	70	983.97	TEE	5	C	5+18	19	65	982.34	TEE							
4	B	17+59	148	10	983.49	TEE	5	C	5+22	24	10	981.39	TEE							
4	B	18+07	159	70	986.34	TEE	5	C	5+91	20	65	985.03	TEE							
4	B	18+24	147	10	985.72	TEE	5	C	5+95	23	10	984.08	TEE							
4	B	18+76	158	70	988.71	TEE	5	C	6+64	21	65	987.71	TEE							
4	B	18+89	146	10	987.95	TEE	5	C	6+68	22	10	986.76	TEE							
4	B	19+52	157	70	991.32	TEE														
4	B	19+56	145	10	990.26	TEE														
4	B	20+14	156	70	993.45	TEE														
4	B	20+19	144	10	992.42	TEE														
4	B	20+81	155	70	995.78	TEE														
4	B	20+85	143	10	994.62	TEE														
4	B	21+47	142	10	995.12	TEE														
4	B	21+51	154	70	996.35	TEE														
4	B	22+14	141	10	995.66	TEE														
4	B	22+20	153	70	996.91	TEE														
4	B	22+79	140	10	996.19	TEE														
4	B	22+89	152	70	997.47	TEE														



**SANITARY SEWER SERVICE LINE
END OF FLOWLINE CALCULATION**

THE FLOWLINE AT END OF THE SERVICE LINE SHOWN ON THE TABLE PROVIDED IS CALCULATED BY:

THE FLOWLINE OF THE SANITARY SEWER MAIN AT THE SERVICE LINE CONNECTION
+ 1.33'
+ LENGTH OF SERVICE LINE X (0.02 / 2.00%)
= FLOWLINE AT END OF SERVICE LINE

EXAMPLE:
FLOWLINE @ MAIN = 100.00
TEE & BEND + 1.33
50' SERVICE LINE + 1.00
FLOWLINE @ END = 102.33

AS-BUILT
02/19/21

DATE

02/19/21

REVISION

AS-BUILT

NO.

5

BY

SPW

CK/APR

RKS

02/19/21

REVISED SANITARY LATERAL TABLES

04/18/19

STORM SEWER CROSSINGS AND GUD ENCLOSURE

02/20/19

REP CITY'S COMMENTS

02/08/19

REP CITY'S COMMENTS

01/21/19

REP CITY'S COMMENTS

11/27/18

SUBMITTAL TO CITY OF LEE'S SUMMIT

IF THIS IS NOT A BLUE INK SEAL AND THE SIGNATURE IN BLUE INK, THE PLAN IS A COPY AND MAY CONTAIN UNAUTHORIZED ALTERATIONS. THE CERTIFICATION CONTAINED ON THIS DOCUMENT SHALL NOT APPLY TO ANY COPIES

STATE OF MISSOURI

Professional Engineer

R. KEVIN STERRETT | MO E-26440

September 9, 2020

igconsult

Inc

engineers

planners

11010 Haskell Street, Suite 210, Kansas City, Kansas 66109

CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION
SUMMARY TABLES - SAN. LATERALS

COBEY CREEK FIRST PLAT

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
16-059 Base

DRAWING NO.
16-059 Phase I Sanitary

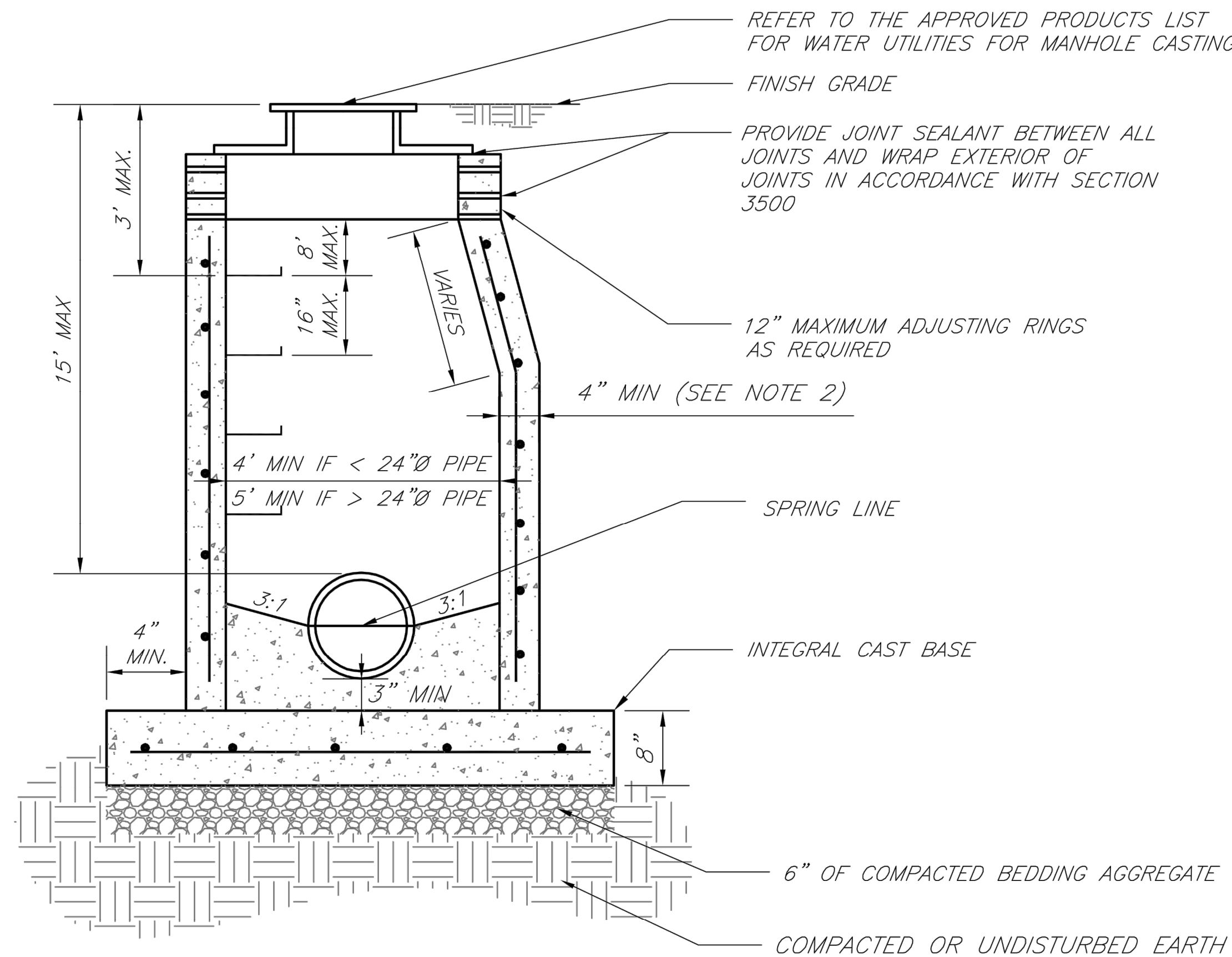
DATE
September 8, 2020

JOB NO.
16-059

7

SHEET
OF

11



- NOTES:
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
 2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH ($\frac{1}{12}$) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THAN 15'.
 3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
 4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
 6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
 7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.



**LEE'S SUMMIT
MISSOURI**

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

STANDARD PRECAST MANHOLE — SANITARY SEWER

Date: 02/13

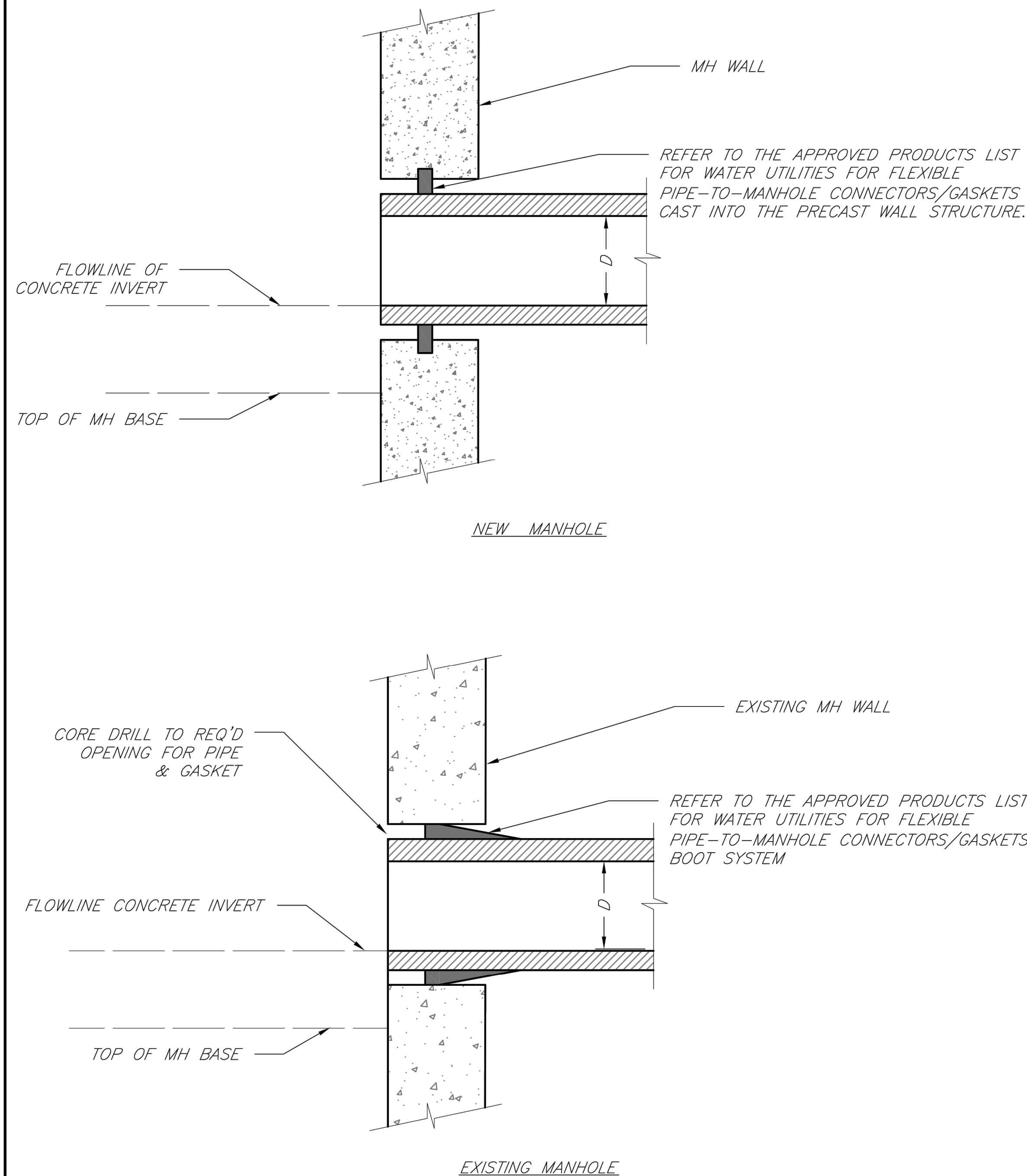
Drawn By: JN

Checked By: DL

FILE: SAN-2

Rev: 1/14

Rev:



**LEE'S SUMMIT
MISSOURI**

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

MANHOLE WALL CONNECTIONS

Date: 02/13

Drawn By: JN

Checked By: DL

FILE: SAN-5

Rev: 1/14

Rev:

AS-BUILT
02/19/21

igconsult
Inc
engineers
planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION
SANITARY DETAILS

COBEY CREEK FIRST PLAT

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
16-059 Base

DRAWING NO.
16-059 Phase I Sanitary

DATE
September 8, 2020

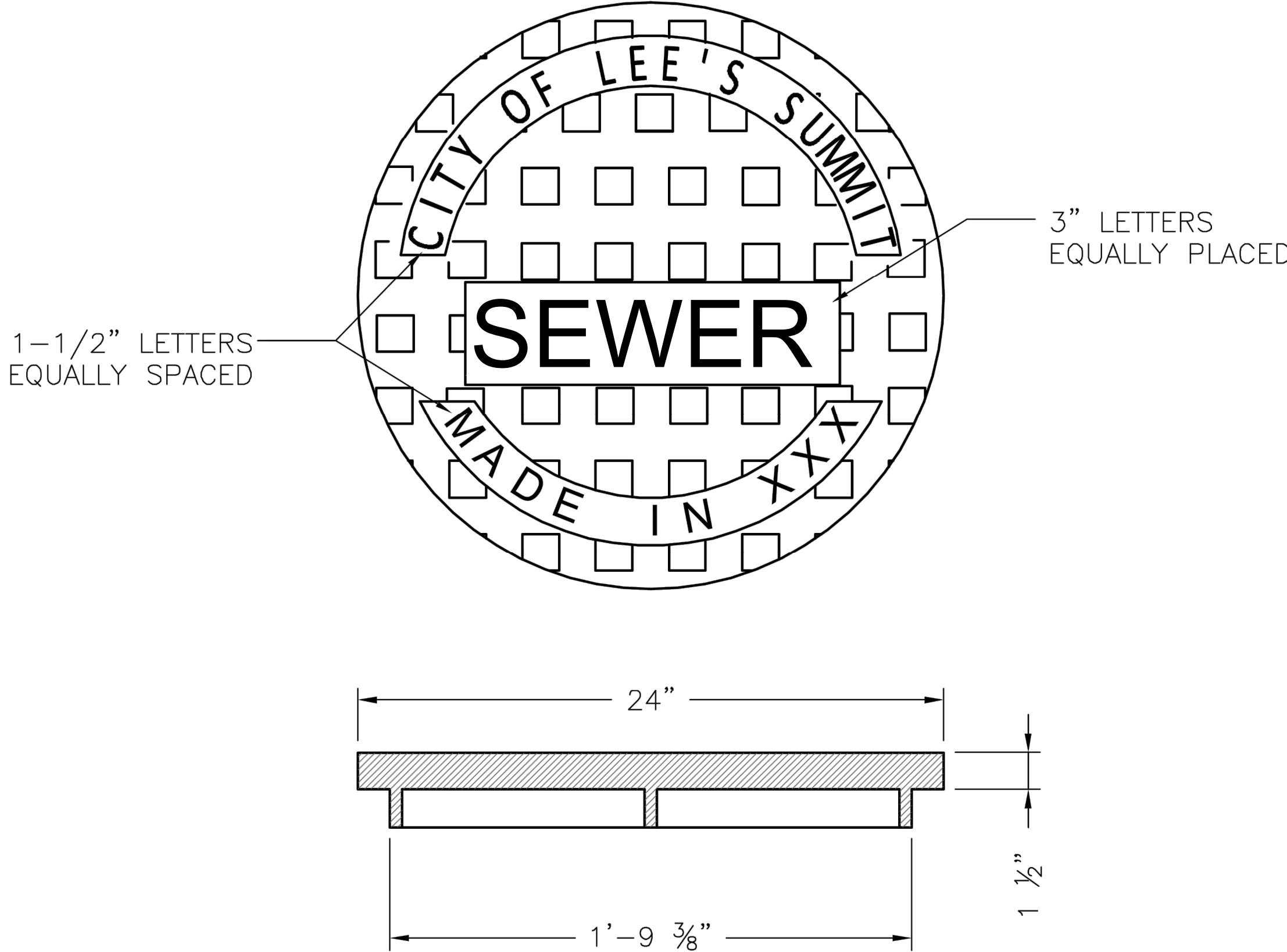
JOB NO.
16-059

8

11

DATE	REVISION	NO.	BY	CHK/APR
02/19/21	AS-BUILT	5	SPW	RKS
09/08/20	REVISED SANITARY LATERAL TABLES	4	SPW	RKS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	3	SPW	RKS
02/20/19	REP CITY'S COMMENTS	2	SPW	RKS
02/08/19	REP CITY'S COMMENTS	1	SPW	RKS
01/21/19	REP CITY'S COMMENTS	1	SPW	RKS
11/27/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	SPW	RKS

IF THIS IS NOT A BLUE INK SEAL AND THE SIGNATURE IN BLUE INK, THE PLAN IS A COPY AND MAY CONTAIN UNAUTHORIZED ALTERATIONS. THE CERTIFICATION CONTAINED ON THIS DOCUMENT SHALL NOT APPLY TO ANY COPIES



STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCT LIST.

LS

LEE'S SUMMIT

MISSOURI

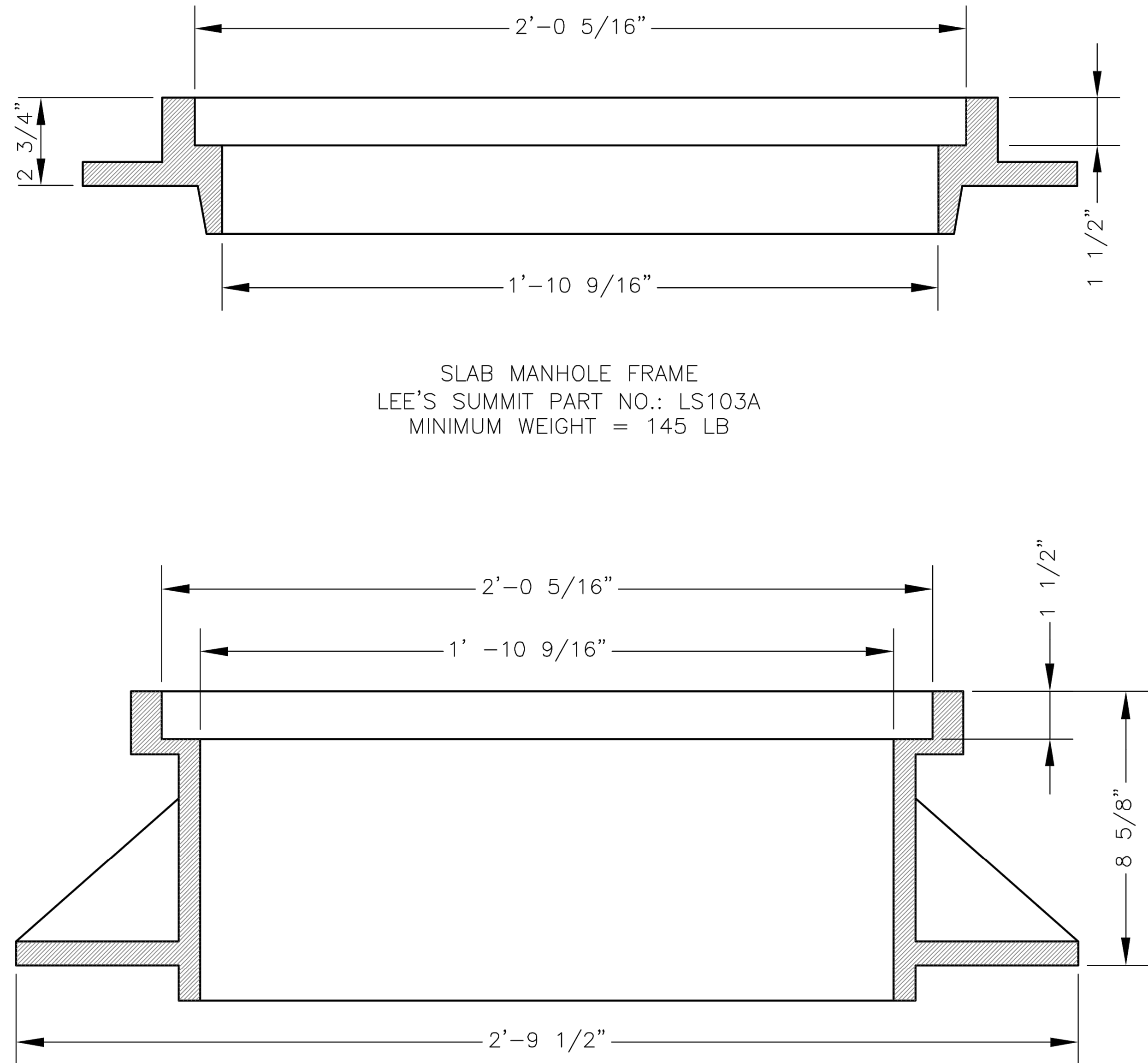
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Sanitary Manhole Cover Detail

Date: 04/17

Drawn By: MJF

Checked By: DL



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCTS LIST.

LS

LEE'S SUMMIT

MISSOURI

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

Sanitary Manhole Frame Detail

Date: 04/17

Drawn By: MJF

Checked By: DL

AS-BUILT
02/19/21

DATE	REVISION	NO.	BY	CHK/APR
02/19/21	AS-BUILT	5	SPW	RKS
09/08/20	REVISED SANITARY LATERAL TABLES	4	SPW	RKS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	3	SPW	RKS
02/20/19	REP CITY'S COMMENTS	2	SPW	RKS
02/08/19	REP CITY'S COMMENTS	1	SPW	RKS
01/21/19	REP CITY'S COMMENTS	1	SPW	RKS
11/27/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	SPW	RKS

gconsult

Inc

engineers

planners

11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

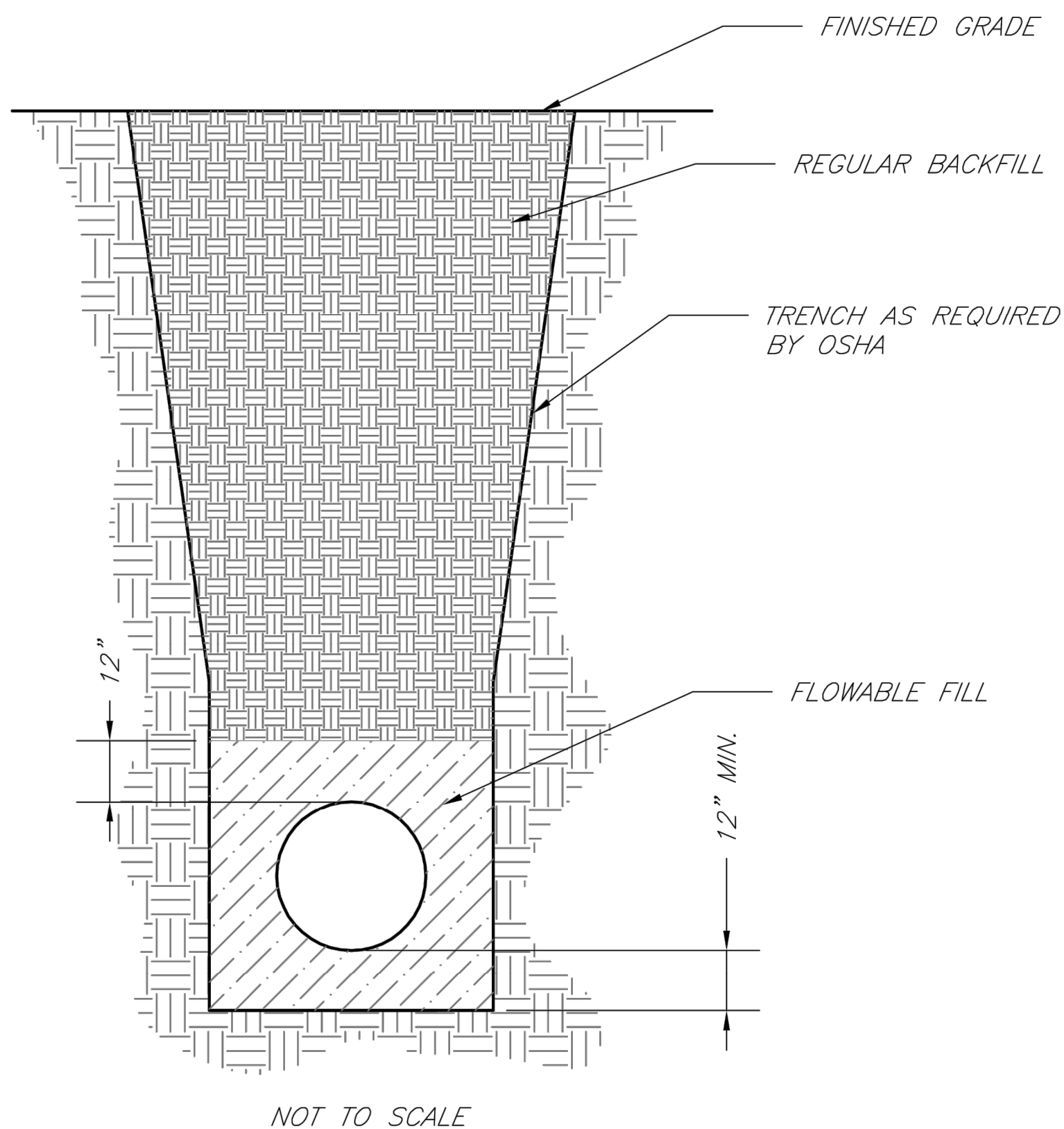
SANITARY SEWER MAIN EXTENSION

SANITARY DETAILS

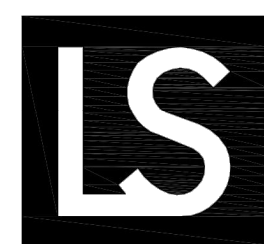
COBEY CREEK FIRST PLAT

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.	16-059 Base
DRAWING NO.	16-059 Phase I Sanitary
DATE	September 8, 2020
JOB NO.	16-059
SHEET	9
OF	11



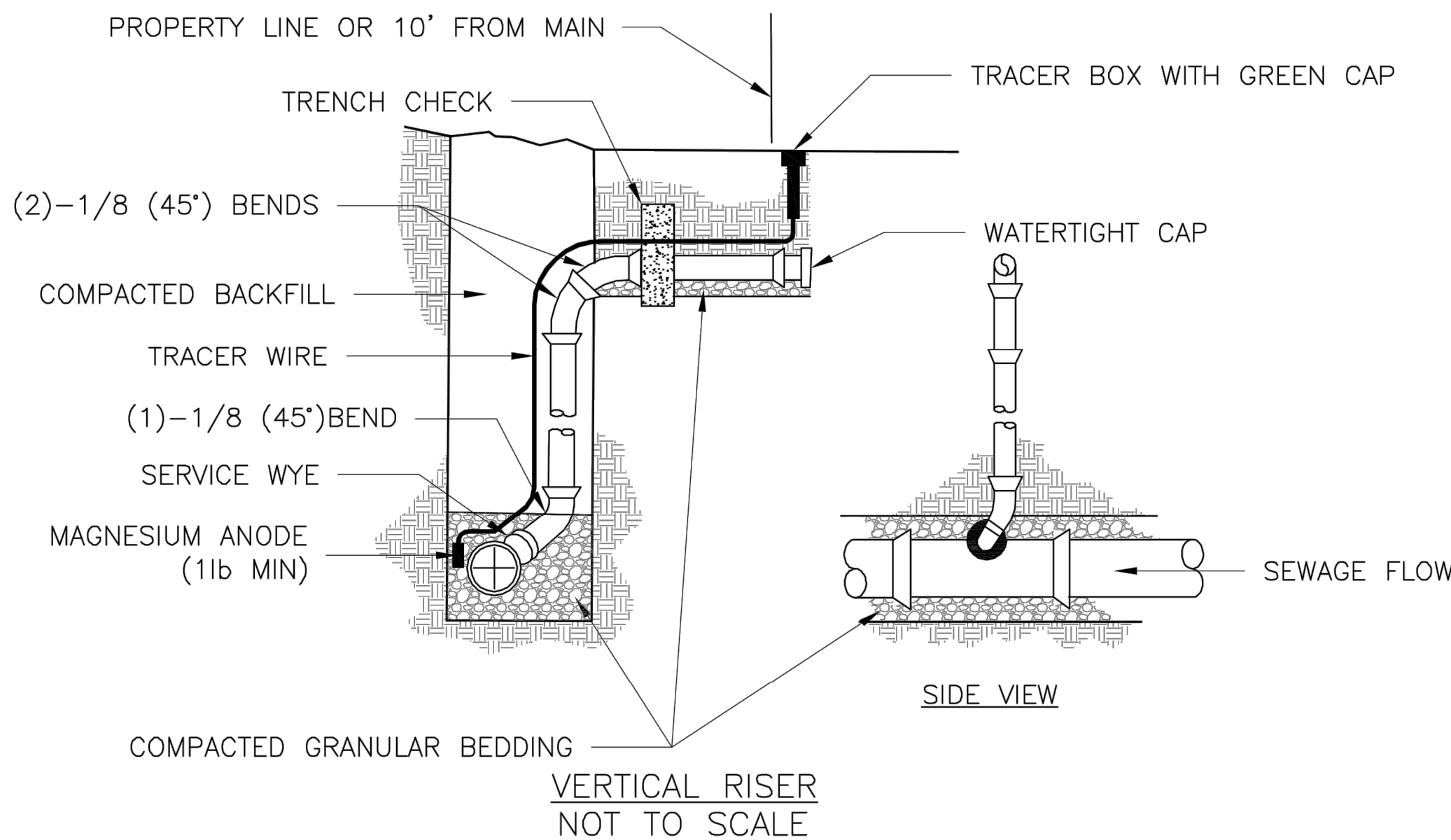
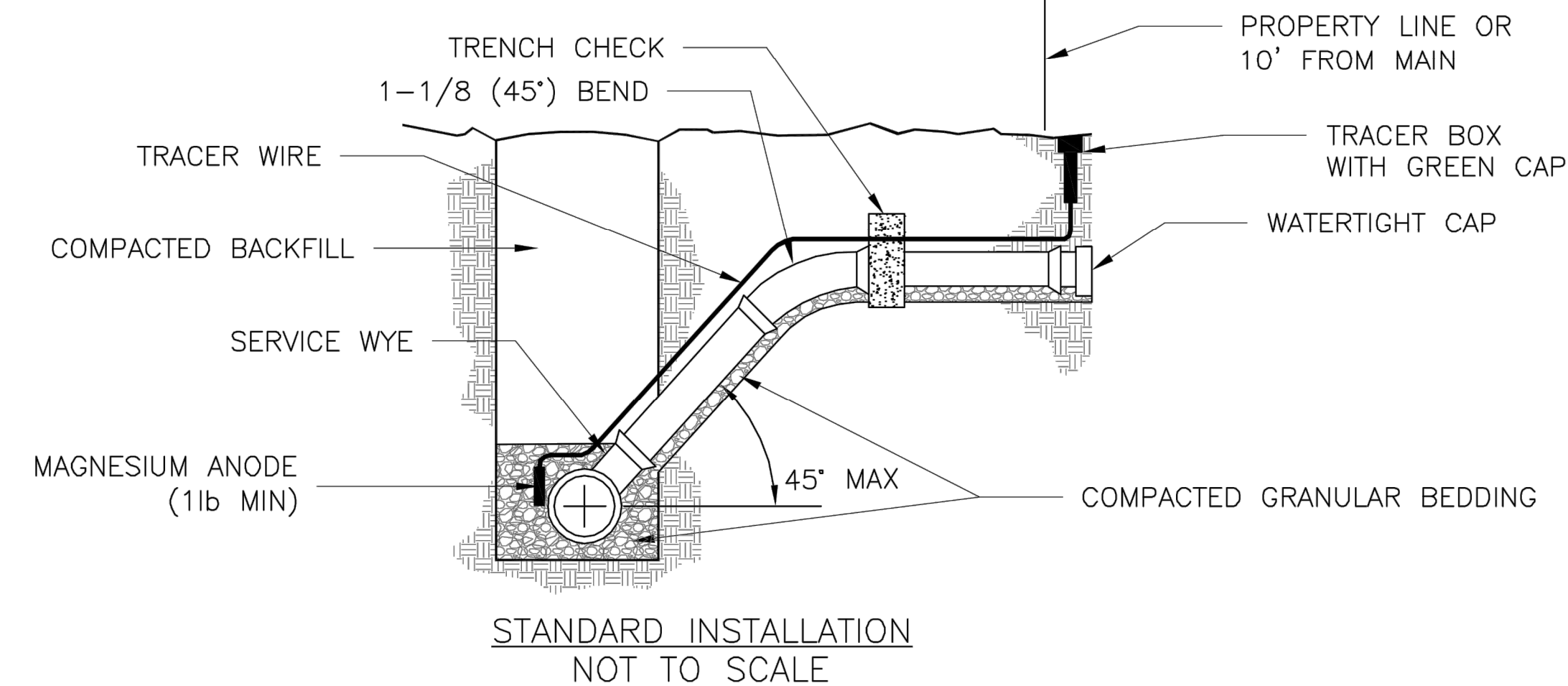
- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".



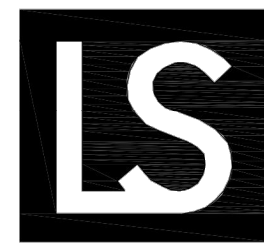
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

TRENCH CHECK

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-6
Rev: 1/14
Rev:



- NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
 2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
 3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
 4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
 5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
 6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
 7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
 8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
 9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.



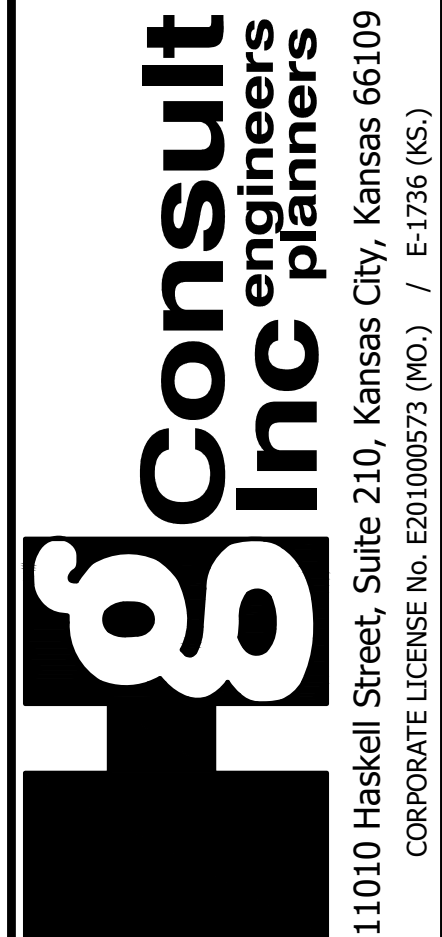
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

BUILDING SEWER STUB AND RISER

Date: 04/17
Drawn By: MJF
Checked By: DL

SAN-1

AS-BUILT
02/19/21



11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

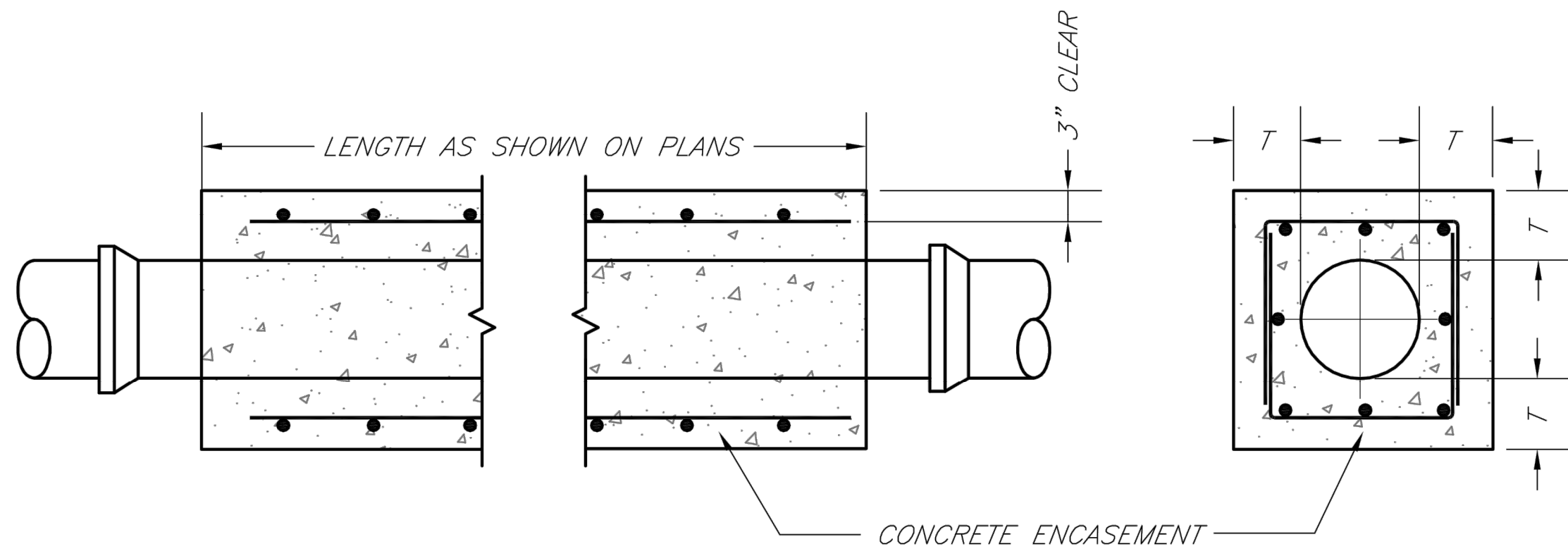
SANITARY SEWER MAIN EXTENSION
SANITARY DETAILS

COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

DATE	REVISION	NO.	BY	CHK/APR
02/19/21	AS-BUILT	5	SPW	RKS
02/08/20	REVISED SANITARY LATERAL TABLES	4	SPW	RKS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCLOSURE	3	SPW	RKS
02/20/19	REP CITY'S COMMENTS	2	SPW	RKS
02/08/19	REP CITY'S COMMENTS	1	SPW	RKS
01/21/19	REP CITY'S COMMENTS	1	SPW	RKS
11/27/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	SPW	RKS

IF THIS IS NOT A BLUE INK SEAL AND THE SIGNATURE IN BLUE INK, THE PLAN IS A COPY AND MAY CONTAIN UNAUTHORIZED ALTERATIONS. THE CERTIFICATION CONTAINED ON THIS DOCUMENT SHALL NOT APPLY TO ANY COPIES

X-REF NO. 16-059 Base
DRAWING NO. 16-059 Phase I Sanitary
DATE September 8, 2020
JOB NO. 16-059



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".

LS

LEE'S SUMMIT

MISSOURI

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

Sanitary Pipe Encasement

Date: 02/13

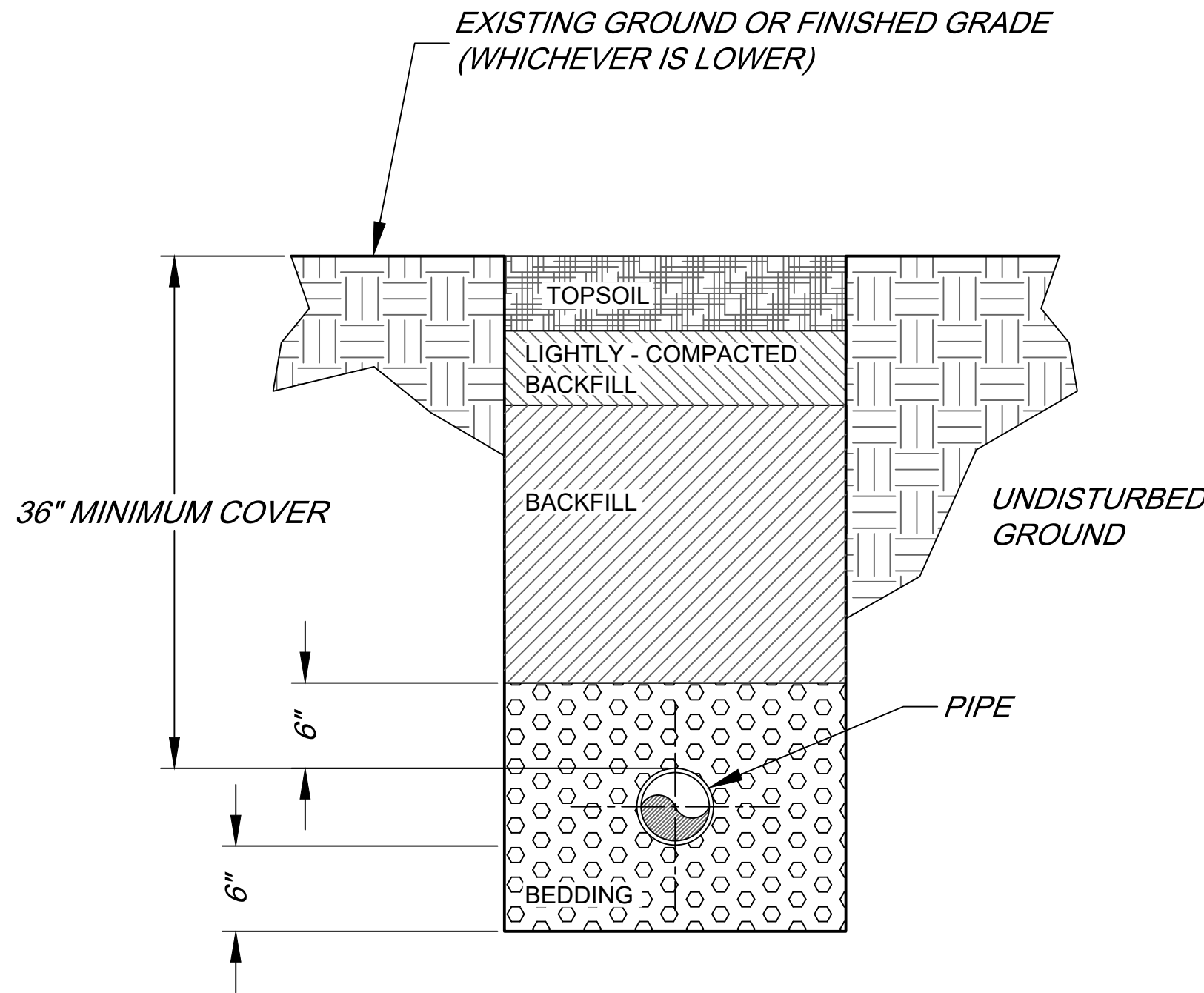
Drawn By: JN

Checked By: DL

FILE: SAN-7

Rev: 1/14

Rev:



SANITARY SEWER
TYPICAL TRENCHING AND
BEDDING DETAIL

NOT TO SCALE

NOTES:

1. BEDDING:
BEDDING AGGREGATE SHALL BE PLACED FROM A LEVEL OF 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL OF 6 INCHES ABOVE THE TOP OF THE PIPE.
2. BACKFILL:
A) TRENCH FOUNDATION:
THE AREA AT THE BOTTOM OF THE EXCAVATION SHALL BE COMPOSED OF A STABLE MATERIAL CAPABLE OF SUPPORTING THE PLACEMENT OF BEDDING MATERIAL, PIPE, OR STRUCTURES.
B) BACKFILL OF ALL PIPES UNDER ROADWAYS, CURB AND GUTTER AND ALL OTHER PAVED AREAS WITHIN THE RIGHT OF WAY SHALL CONSIST OF FLOWABLE BACKFILL AS SPECIFIED IN APWA SPEC. 2100 PARAGRAPH 2602.2H MIX DESIGN TYPE A. THE FLOWABLE BACKFILL SHALL EXTEND 2 FEET FROM THE BACK OF CURB TO 2 FEET BACK OF CURB, UP TO 18" INCHES BELOW FINISHED GRADE. FOR EXISTING ROADWAYS FLOWABLE BACKFILL SHALL BE EXTENDED TO THE BASE OF PAVEMENT.

AS-BUILT
02/19/21

DATE	REVISION	NO.	BY	CHK/APR
02/19/21	AS-BUILT		SPW	RKS
02/08/20	REVISED SANITARY LATERAL TABLES	5	SPW	RKS
04/16/19	STORM SEWER CROSSINGS AND ADD ENCASMENT	4	SPW	RKS
02/20/19	REP CITY'S COMMENTS	3	SPW	RKS
02/08/19	REP CITY'S COMMENTS	2	SPW	RKS
01/25/19	REP CITY'S COMMENTS	1	SPW	RKS
11/27/18	SUBMITTAL TO CITY OF LEE'S SUMMIT		SPW	RKS

g

consult

Inc

engineers

planners

11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

SANITARY SEWER MAIN EXTENSION SANITARY DETAILS	COBEY CREEK FIRST PLAT LEE'S SUMMIT - JACKSON COUNTY - MISSOURI
---	--

X-REF NO. 16-059 Base	11
DRAWING NO. 16-059 Phase I Sanitary	OF
DATE September 8, 2020	11
JOB NO. 16-059	