PLAN FOR

PRIVATE SANITARY AND STORM SEWER IMPROVEMENTS & PUBLIC WATER MAIN IMPROVEMENTS SAINT LUKE'S EAST - FLEX FACILITY EXPANSION

INDEX OF SHEETS

SHEET NO. C301 SANITARY SEWER PLAN AND PROFILE SHEET NO. STORM SEWER PLAN AND PROFILES SHEET NO. STANDARD SANITARY SEWER DETAILS C305 SHEET NO. STANDARD STORM SEWER DETAILS WATER LINE PLAN AND PROFILE SHEET NO. C401 SHEET NO. C402 STANDARD WATER LINE DETAILS

CITY OF LEE'S SUMMIT, MISSOURI

GENERAL NOTES

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF CITY OF LEE'S SUMMIT, MISSOURI.
- 2. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- 3. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND ARE APPROXIMATE ONLY. THEY DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 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 NAMES AND TELEPHONE NUMBERS OF UTILITY COMPANIES EVEN IF ONLY REMOTELY INVOLVED WITH THIS PROJECT ARE AS FOLLOWS:

ELECTRIC	KANSAS CITY POWER & LIGHT CO.	888-474-5275
GAS	MISSOURI GAS ENERGY	816-756-5252
WATER	CITY OF LEE'S SUMMIT	816-969-1940
TELEPHONE AT&T		800-464-7928
SEWER	CITY OF LEE'S SUMMIT	816-969-1940
CABLE TV	TIME WARNER	816-358-8833
	COMCAST	816-833-3400

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.

- 5. PRIOR TO ORDERING PREFRABRICATED STRUCTURES. SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
- 6. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER. UNLESS SHOWN
- 7. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES
- 8. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. ALL EXISTING UTILITIES SHALL BE ADJUSTED AS REQUIRED
- 9. ALL EXCESS AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF AT A LOCATION OFF SITE PROVIDED BY THE CONTRACTOR.
- 10. SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMEN OR MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATION, A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND FOR PLACING THE FLOOR SLAB.
- 11. ALL EXCAVATION SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

NOTE:

- 1. BY USE OF THESE PLANS THE CONTRACTOR AGREES THAT HE/SHE SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION WORKERS AND OF THE PUBLIC.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS SET FORTH BY THE KANSAS CITY CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION AND THE
- CITY OF LEE'S SUMMIT MISSOURI, WHICHEVER IS MORE STRICT
 THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK ~~~~~~~~<u>//</u>

SPECIFICATIONS

ALL WORK PERFORMED AND MATERIALS FURNISHED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF LEE'S SUMMIT, MISSOURI. THE CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS OF THE "AMERICAN PUBLIC WORKS ASSOCIATION, KANSAS CITY METROPOLITAN CHAPTER" AND ARE HEREBY MADE THE SPECIFICATIONS FOR THIS SET OF PLANS BY REFERENCE AS THOUGH FULLY SET FORTH HEREIN.



GENERAL LOCATION

LEGAL DESCRIPTION:

ALL OF LOT 1, SAINT LUKES HOSPITAL OF LEE'S SUMMIT LOTS 1 & 2, A SUBDIVISION OF LAND IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,

PREPARED & SUBMITTED BY:

McCLURE

1700 SWIFT STREET, SUITE 100 NORTH KANSAS CITY, MISSOURI 64116

DATE

ACCEPTED BY:

DESIGN ENGINEER

MATT EBLEN 1700 SWIFT AVE, SUITE 100 /1\ NORTH KANSAS CITY, MO 913-307-2588 MEBLEN@MECRESULTS.COM

SUMMARY OF QUANTITIES

SCALE: 1"= 500'

500 250 0

	ITEM DESCRIPTION	UNITS Q	UANTI	ΓΥ_
	8" PVC PIPE (SDR-26)	L.F.	436	
<i>?</i>	4'-0" I.D. SANITARY MANHOLE	EACH	3)
>	15" R.C.P. (CLASS III)	L.F.	93	\
	18" R.C.P. (CLASS III)	L.F.	108	< <
(30" R.C.P. (CLASS III)	L.F.	498)
>	4'x4' CURB INLET	EACH	1	\
\	5'x4' CURB INLET	EACH	2	〈
(5'x5' CURB INLET	EACH	1)
>	6'x5' CURB INLET	EACH	1)
\	8'x5' CURB INLET	EACH	2	. <
(4'x4' AREA INLET	EACH	2	Λ λ
7	11'x3' CURB INLET CONVERTED TO JUNCTION BOX	EACH	1	<u> </u>
>	STREET REPAIR & CURB REPLACEMENT	L.F.	48	\
	CONNECTION TO EXISTING STRUCTURE	EACH	5	₹
	8" PVC C900 PIPE	L.F.	364)
>	CONNECTIONS TO EXISTING	EACH	2	\
\	8"x6" TEE	EACH	2	〈
(8"x6" TEE AND FIRE HYDRANT	EACH	3)
>	6" GATE VALVE 8" GATE VALVE	EACH EACH	5 2)
\	45° HORIZONTAL BEND	EACH	7	〈
(/)
7	11 ½° HORIZONTAL BEND	EACH	1)
>	22 ½° HORIZONTAL BEND	EACH	2	\
(8" SOLID SLEEVE	EACH	2)





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PRIVATE STORM SEWER & WAIN IMPROVEMENTS

LUKE'S FLEX FACILITY EXPANSION PRIVATE

SAIN SAN PUI

SHE

11-18-2019

/1\ PER CITY COMMENTS 01-17-2020 **/2**\ PER CITY COMMENTS 01-31-2020

> **DESIGNED BY** MVE KLJ DRAWN BY CHECKED BY MVE

McCLURE PROJECT No. 190891-000 SHEET NO.

C300

FLOOD NOTE:

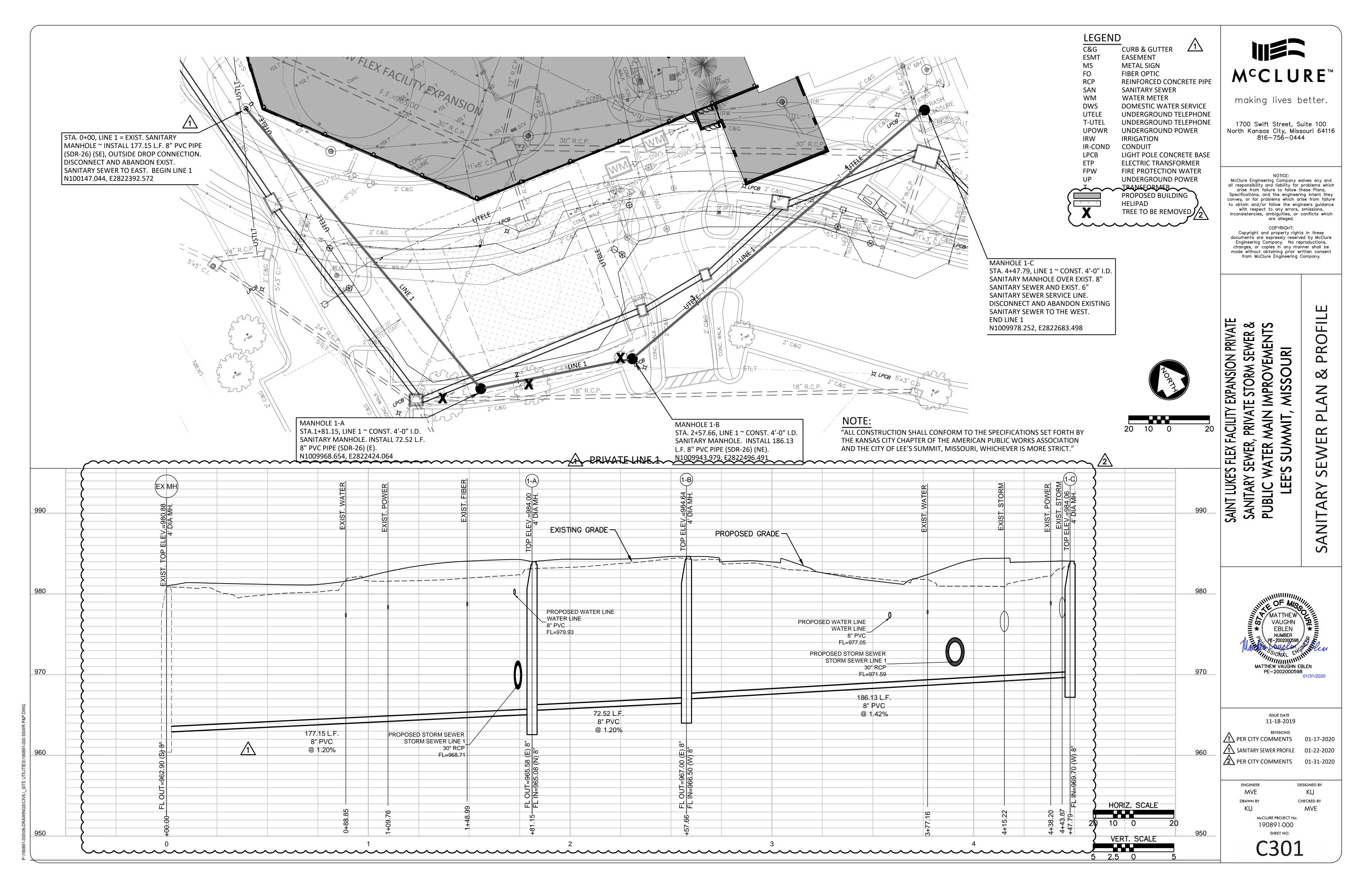
JACKSON COUNTY, MISSOURI, MAP NUMBER 29095C0409G AND DATED JANUARY 20, 2017.

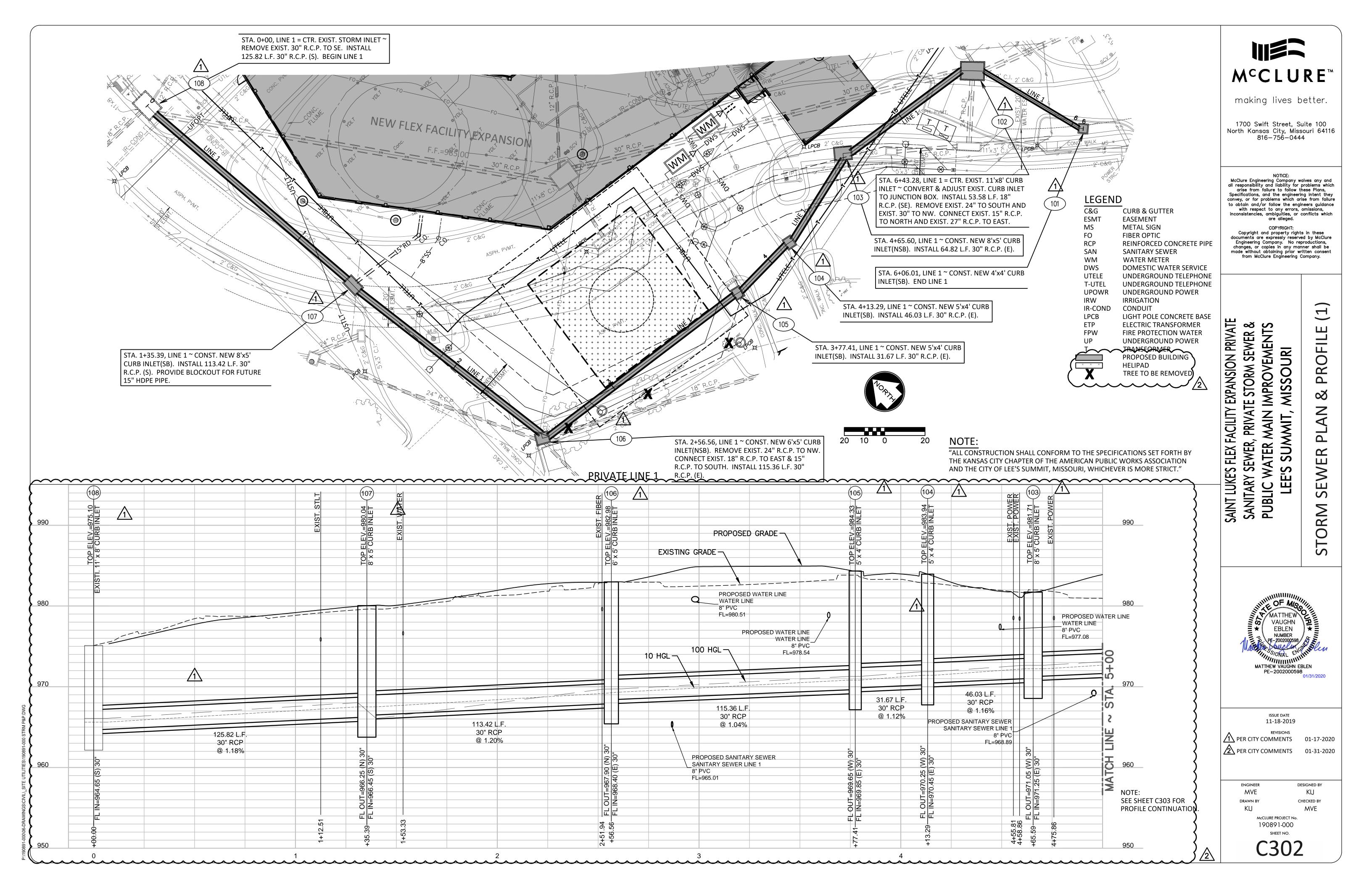
PROJECT BENCHMARKS BENCHMARK 1 ELEV.: 982.17 SET 5 PUNCH HOLES IN THE TOP OF A SOUTHWEST FLANGE BOLT ON A FIRE HYDRANT IN THE SOUTHEAST QUADRANT OF SOUTH RING ROAD AND DRIVE ENTRANCE SOUTHWEST OF THE HELICOPTER PAD.

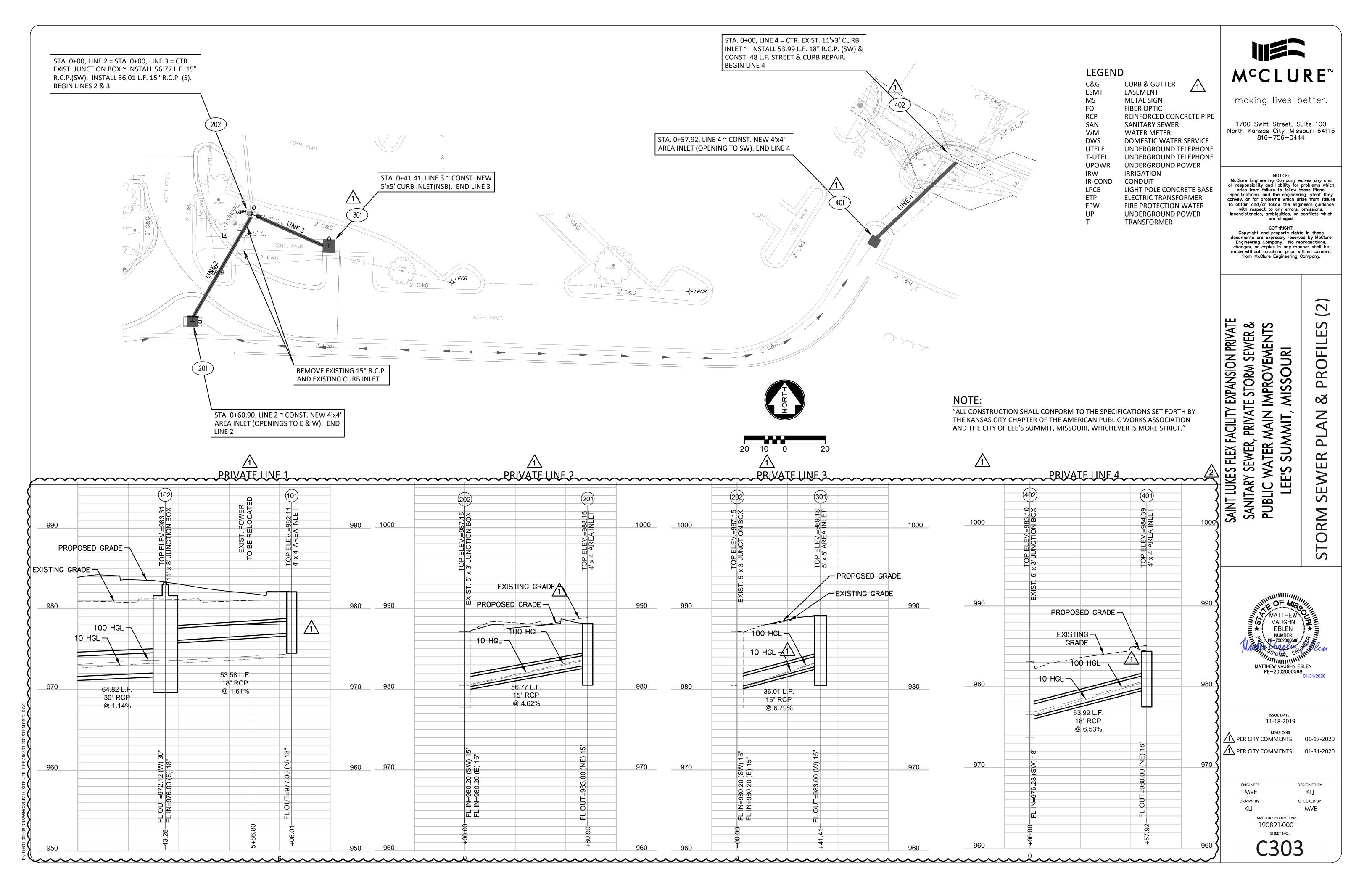
THIS PROPERTY LIES WITHIN FLOOD ZONE X, DEFINED AS AREAS OF DETERMINED TO BE OUTSIDE THE

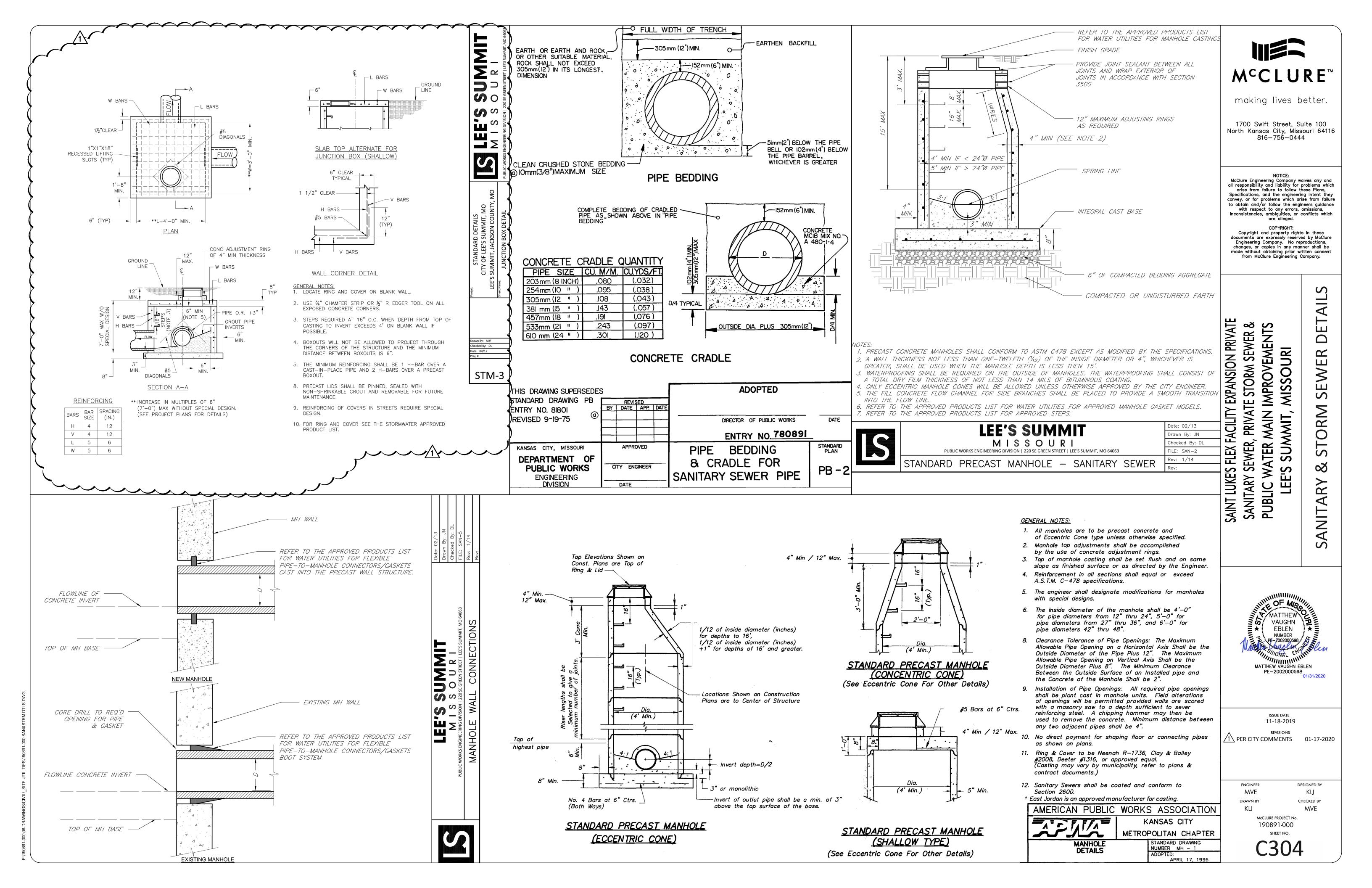
0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP, PREPARED BY THE FEDERAL EMERGENCY AGENCY'S NATIONAL FLOOD INSURANCE PROGRAM FOR LEE'S SUMMIT,

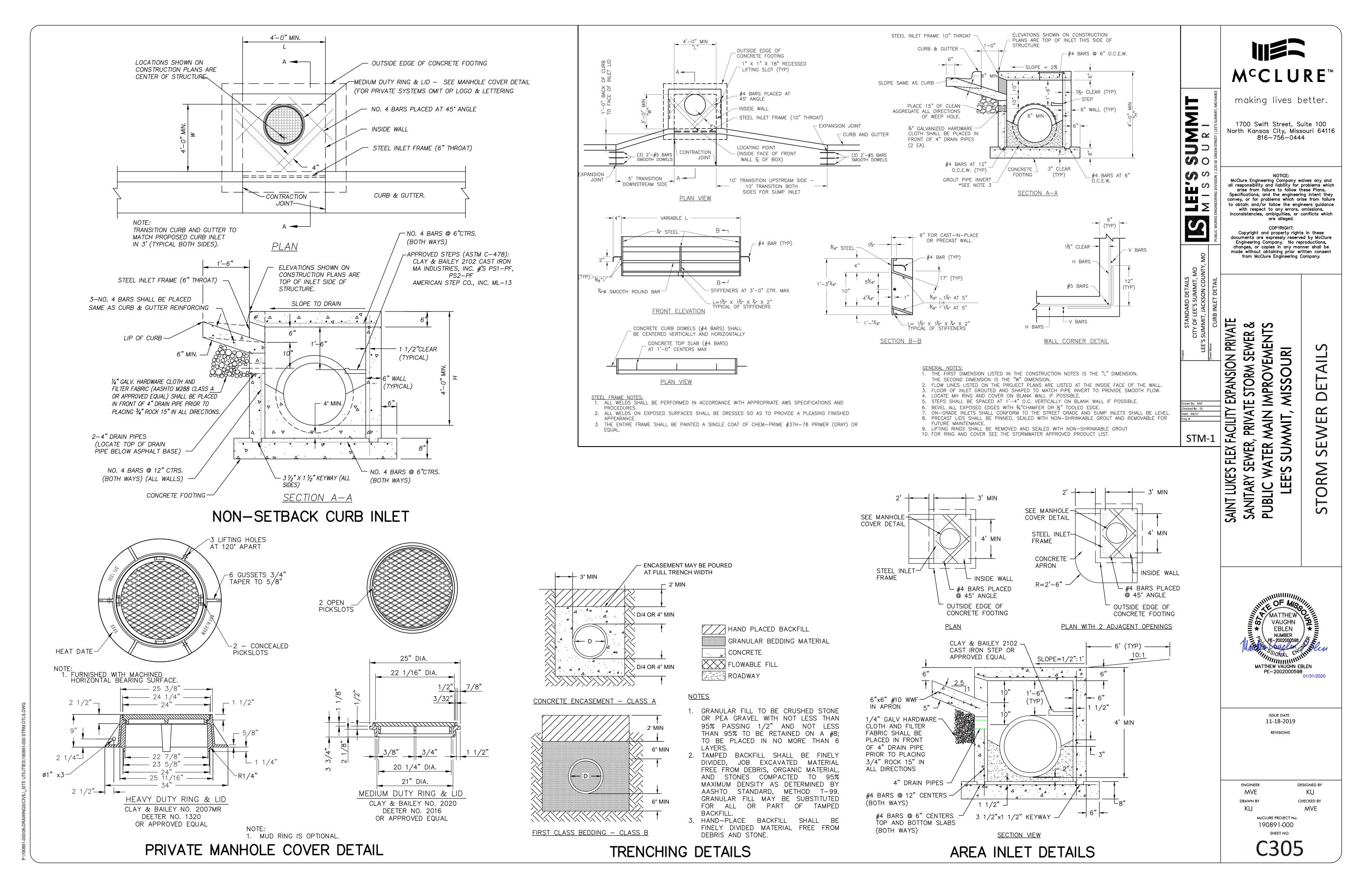
BENCHMARK 2 SET 5 PUNCH HOLES IN THE TOP OF A SOUTHWEST FLANGE BOLT ON A FIRE HYDRANT IN THE SOUTHEAST QUADRANT OF SOUTH RING ROAD AND PARK LOT E TO 50± DUE SOUTH OF THE SOUTHWEST CORNER OF MEDICAL OFFICE BUILDING.

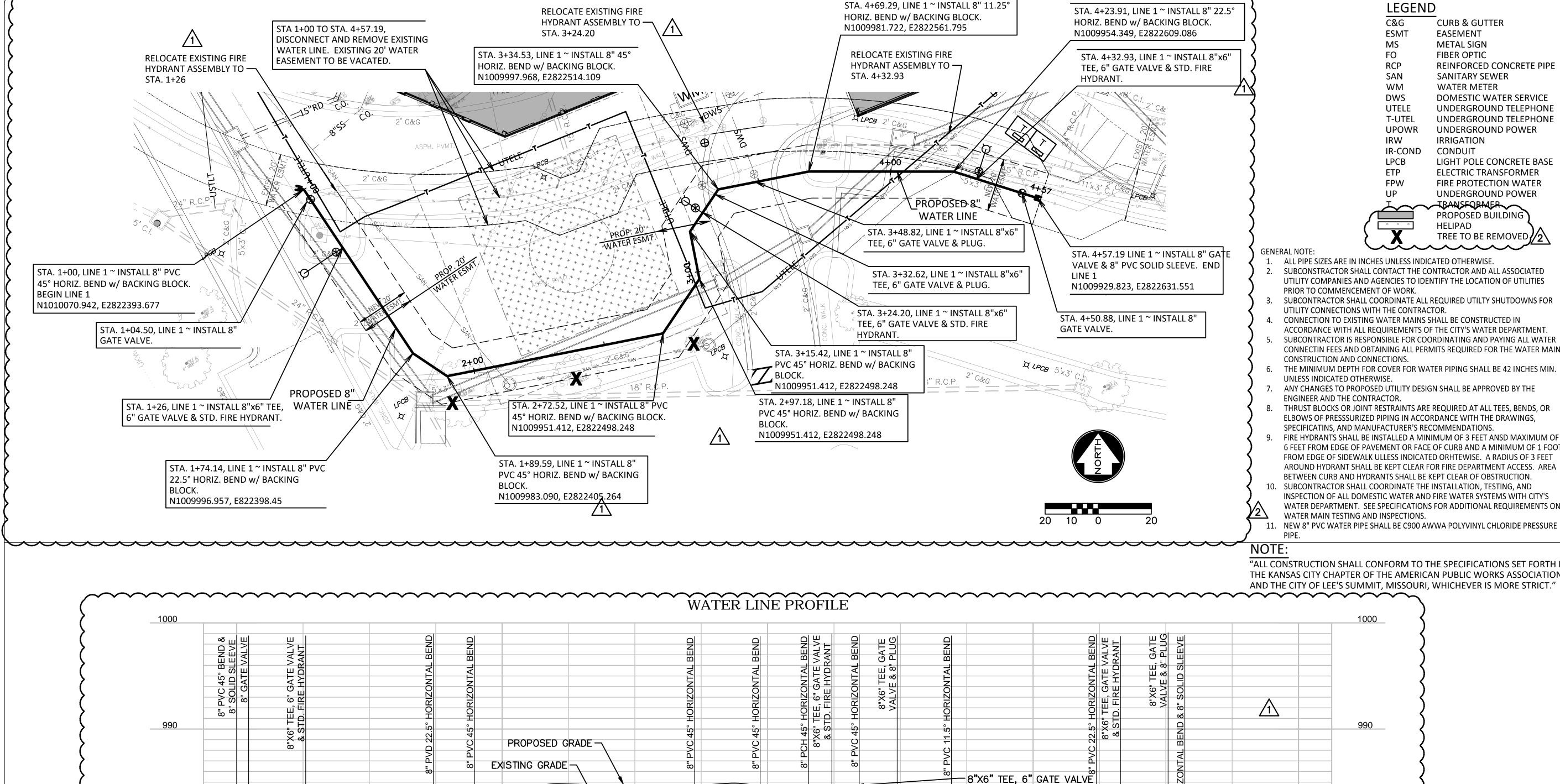












X. TELE. CONDUITO BE REROUTED

PROPOSED STORM SEWER

PROPOSED STORM SEWER

STORM SEWER LINE 1

30" RCP

_SANITARY SEWER LINE 1

8" PVC

FL=964.98

FL=968.79

PROPOSED SANITARY SEWER

STORM SEWER LINE 1

30" RCP

FL=969.51

363.34 L.F. 8" PV(

C900 WATER LINE

980

970

& 8" PLUG

PROPOSED STORM SEWER

STORM SEWER LINE 1

30" RCP

FL=970.85

PROPOSED SANITARY SEWER

SANITARY SEWER LINE 1

8" PVC

FL=968,43

STA 3+32.62

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TE STORM SEWER 8

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PRIVATE

EXPANSION

THE MINIMUM DEPTH FOR COVER FOR WATER PIPING SHALL BE 42 INCHES MIN.

CURB & GUTTER

SANITARY SEWER

WATER METER

REINFORCED CONCRETE PIPE

DOMESTIC WATER SERVICE UNDERGROUND TELEPHONE

UNDERGROUND TELEPHONE

LIGHT POLE CONCRETE BASE

ELECTRIC TRANSFORMER

FIRE PROTECTION WATER UNDERGROUND POWER

TRANSFORMER__

PROPOSED BUILDING

TREE TO BE REMOVED !/

UNDERGROUND POWER

EASEMENT

METAL SIGN

FIBER OPTIC

IRRIGATION

CONDUIT

HELIPAD

ANY CHANGES TO PROPOSED UTILITY DESIGN SHALL BE APPROVED BY THE

THRUST BLOCKS OR JOINT RESTRAINTS ARE REQUIRED AT ALL TEES, BENDS, OR ELBOWS OF PRESSSURIZED PIPING IN ACCORDANCE WITH THE DRAWINGS,

FIRE HYDRANTS SHALL BE INSTALLED A MINIMUM OF 3 FEET ANSD MAXIMUM OF 6 FEET FROM EDGE OF PAVEMENT OR FACE OF CURB AND A MINIMUM OF 1 FOOT FROM EDGE OF SIDEWALK ULLESS INDICATED ORHTEWISE. A RADIUS OF 3 FEET AROUND HYDRANT SHALL BE KEPT CLEAR FOR FIRE DEPARTMENT ACCESS. AREA

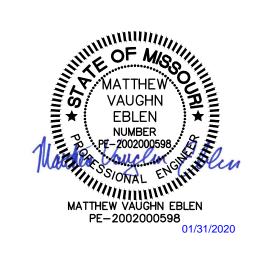
BETWEEN CURB AND HYDRANTS SHALL BE KEPT CLEAR OF OBSTRUCTION. SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION, TESTING, AND INSPECTION OF ALL DOMESTIC WATER AND FIRE WATER SYSTEMS WITH CITY'S WATER DEPARTMENT. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ON

11. NEW 8" PVC WATER PIPE SHALL BE C900 AWWA POLYVINYL CHLORIDE PRESSURE

LUKE'S FLEX FA TARY SEWER, "ALL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS SET FORTH BY THE KANSAS CITY CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION AND THE CITY OF LEE'S SUMMIT, MISSOURI, WHICHEVER IS MORE STRICT."

980

970



ISSUE DATE

DRAWN BY

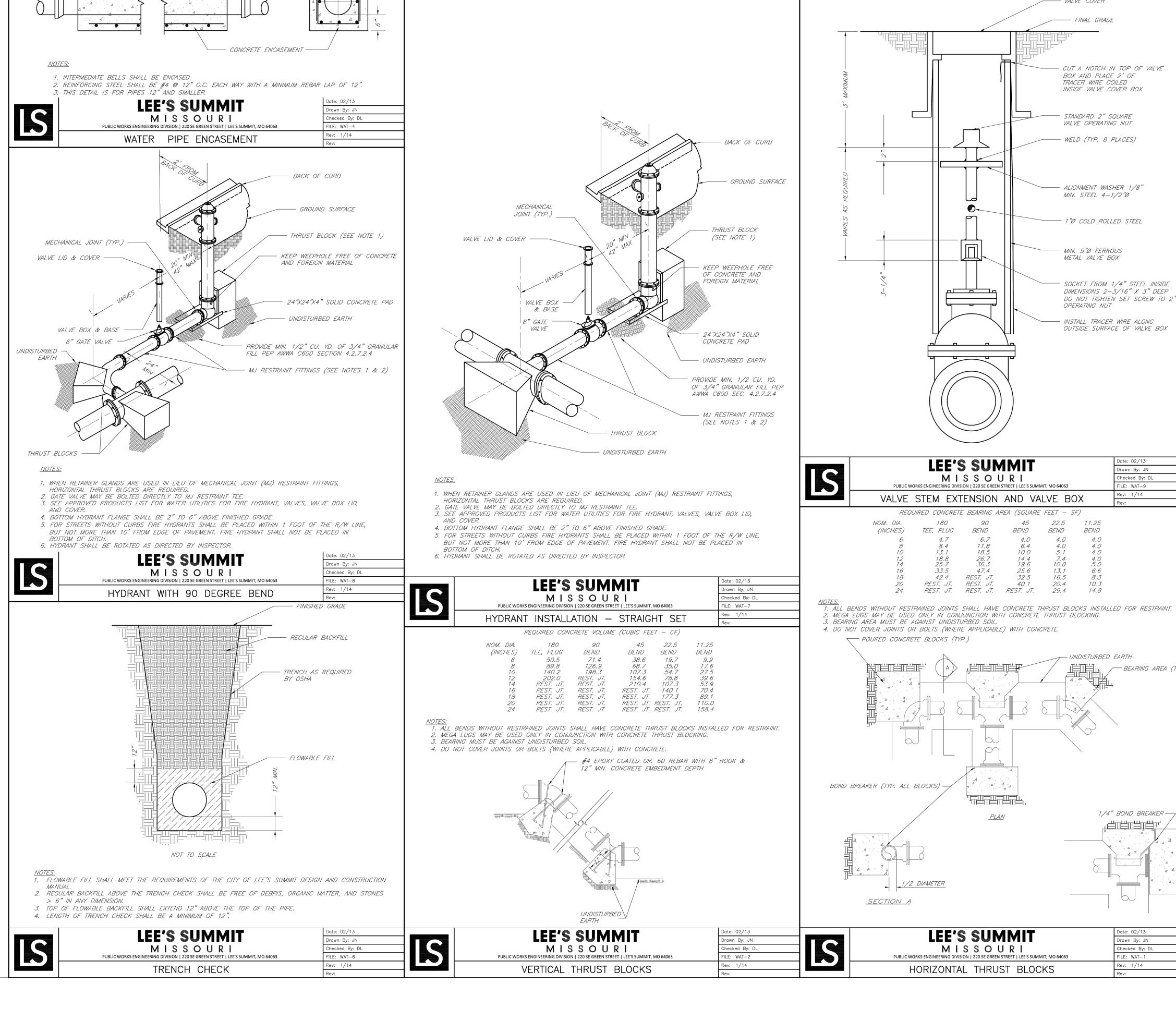
McCLURE PROJECT No. 190891-000

11-18-2019

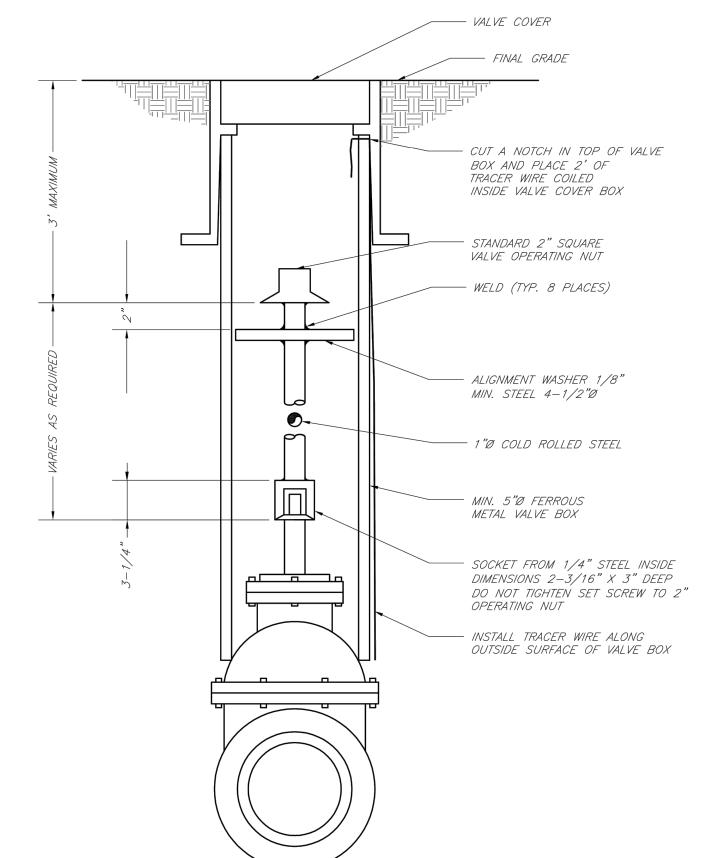
1 PER CITY COMMENTS 01-17-2020 **2** PER CITY COMMENTS 01-31-2020

> **DESIGNED BY** KIJ **CHECKED BY**

> > SHEET NO.



---- LENGTH AS SHOWN ON PLANS -----



LEE'S SUMMIT

MISSOURI

VALVE STEM EXTENSION AND VALVE BOX

18.5

47.4

REST. JT.

REST. JT.

P. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.

8.4 13.1

33.5

42.4

REST. JT.

BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.

POURED CONCRETE BLOCKS (TYP.)

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)

180 90 45 22.5 11.25

25.6

32.5 40.1

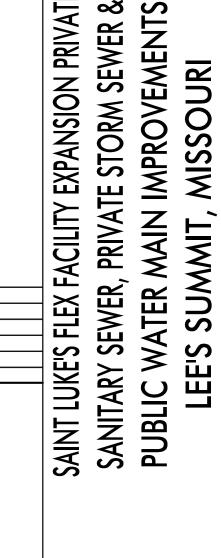
13.1

20.4 29.4

10.3

- UNDISTURBED EARTH

TEE, PLUG BEND BEND BEND BEND



Drawn By: JN

hecked By: DL

/ BEARING AREA (TYP)

ILE: WAT-9

Rev: 1/14

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VAUGHN EBLEN NUMBER PE-2002000598 MATTHEW VAUGHN EBLEN PE-2002000598

> **ISSUE DATE** REVISIONS

DESIGNED BY ENGINEER MVE DRAWN BY CHECKED BY КIJ

MVE McCLURE PROJECT No. 190891-000

КIJ

SHEET NO. C402

SECTION A

1/2 DIAMETER

BOND BREAKER (TYP. ALL BLOCKS) -

(INCHES)

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

Drawn By: JN hecked By: DL FILE: WAT-1 Rev: 1/14

1/4" BOND BREAKER —