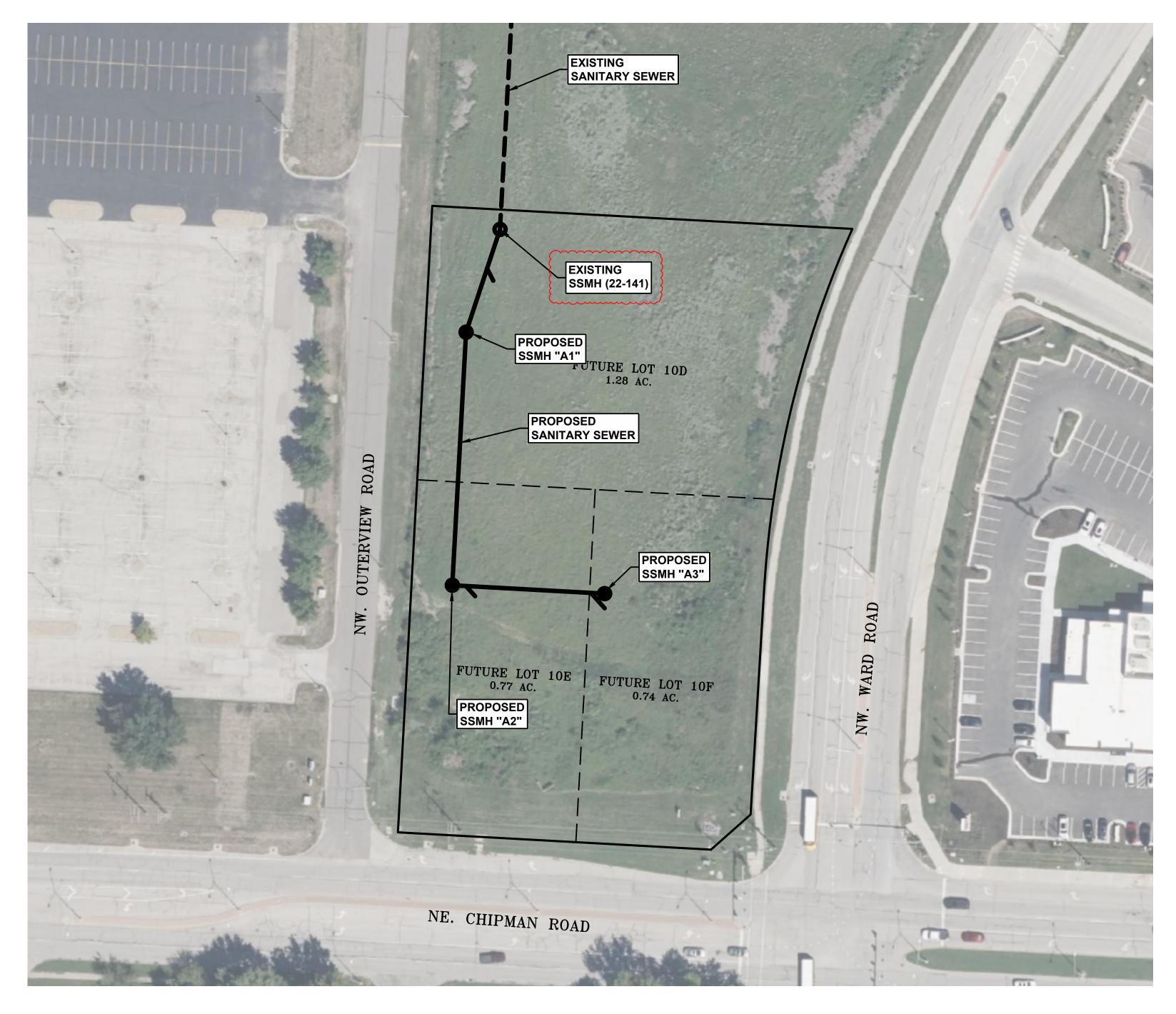
# SUMMIT FAIR, LOT 10D-10F PUBLIC SANITARY SEWER IMPROVEMENTS

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

## **GENERAL NOTES:**

THE DESIGN AND CONSTRUCTION OF THE PUBLIC SANITARY SEWER FACILITIES SHALL BE GOVERNED BY THE CITY OF LEE'S SUMMIT, MISSOURI DESIGN CRITERIA AND TECHNICAL SPECIFICATIONS, LATEST EDITIONS.





SS-2 SANITARY SEWER PLAN & PROFILE SS-3 EROSION CONTROL & RESTORATION

SS-4 SANITARY SEWER DETAILS

SCALE: 1"=100'
100' 20

## **UTILITY COMPANIES:**

LEE'S SUMMIT, MO 64082

MISSOURI GAS ENERGY
LUCAS WALLS (LUCAS.WALLS@SUG.COM)
3025 SOUTHEAST CLOVER DRIVE

(816) 969-2218

EVERGY (816) 347-4339
PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM)
RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM)
1300 HAMBLEN ROAD (816) 347-4316

LEE'S SUMMIT, MO 64081

STORM SEWER (PUBLIC WORKS DEPARTMENT) (816) 969–1800
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063

SANITARY SEWER & WATER (WATER UTILITIES DEPT.) (816)-969-1900 1200 SE HAMBLEM ROAD, LEE'S SUMMIT, MO 64081

AT&T (913) 383-4929

MR. CLAYTON ANSPAUGH (CA4089@ATT.COM) (913) 383-4849-FAX 9444 NALL AVENUE OVERLAND PARK, KANSAS 66207

NW1/4 NE1/4

SW1/4 SE1/4

SE1/4

NE1/4

NW CHIPMAN ROAD

VICINITY MAP

SEC. 36-48-32



UTILITY NOTES:
VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN.
UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR
LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN
THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL
FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

NOTE: FLOWABLE FILL IS REQUIRED AROUND ALL STORM STRUCTURES.

LEGEND OF SYMBOLS

Proposed Sanitary Sewer
Existing Sanitary Sewer

PREPARED & SUBMITTED BY:
PHELPS ENGINEERING, INC.
1270 N. WINCHESTER
OLATHE, KANSAS 66061



JUDD D. CLAUSSEN, MISSOURI P.E.#29850

DATE

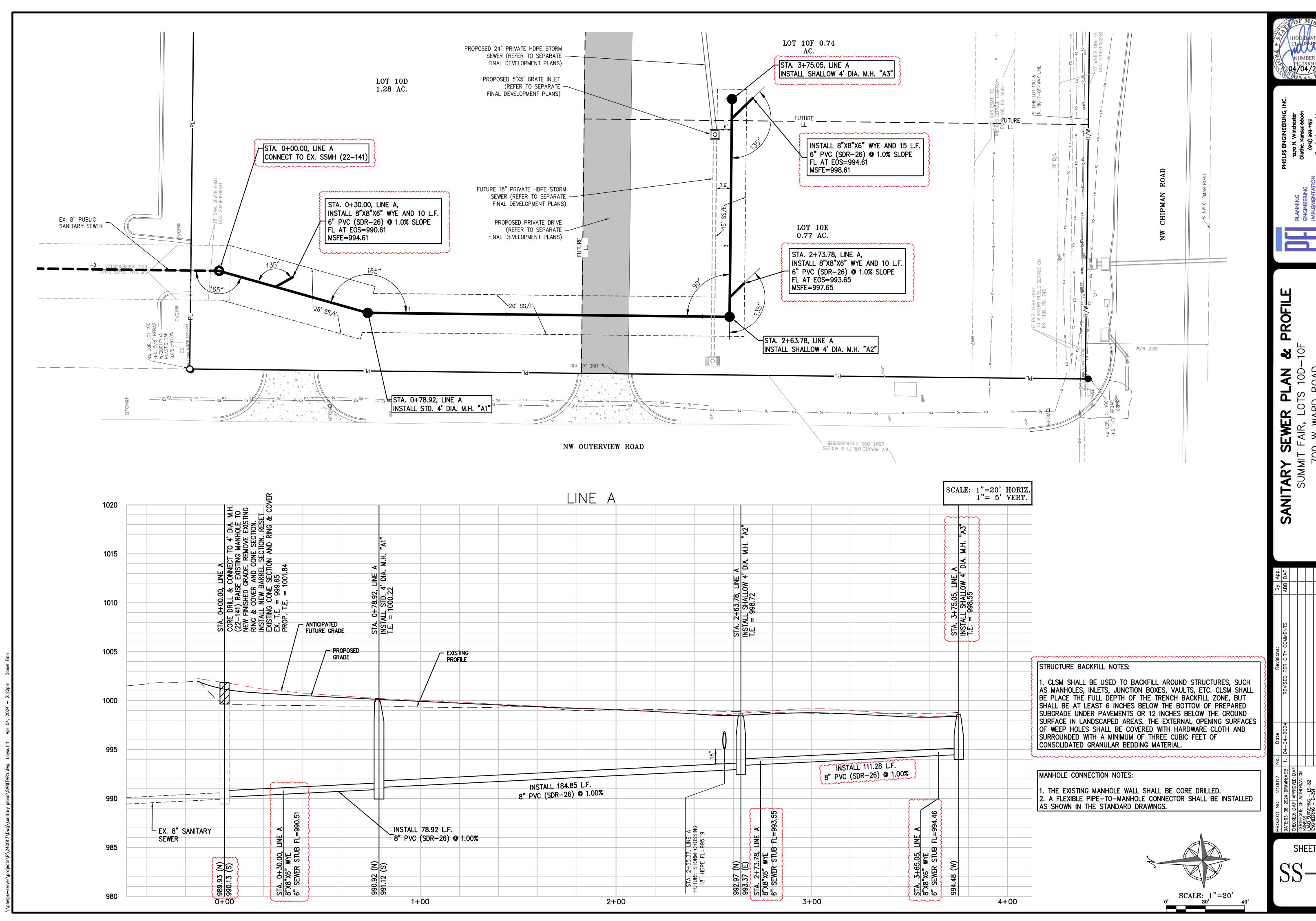
PHELPS ENGIN
1270 N. Wi
ENGINEERING
(913) 39
IMPLEMENTATION
Fax (913) 3

MMIT FAIR, LOTS 10D—700 W WARD ROAD FF'S SUMMIT MISSOUF

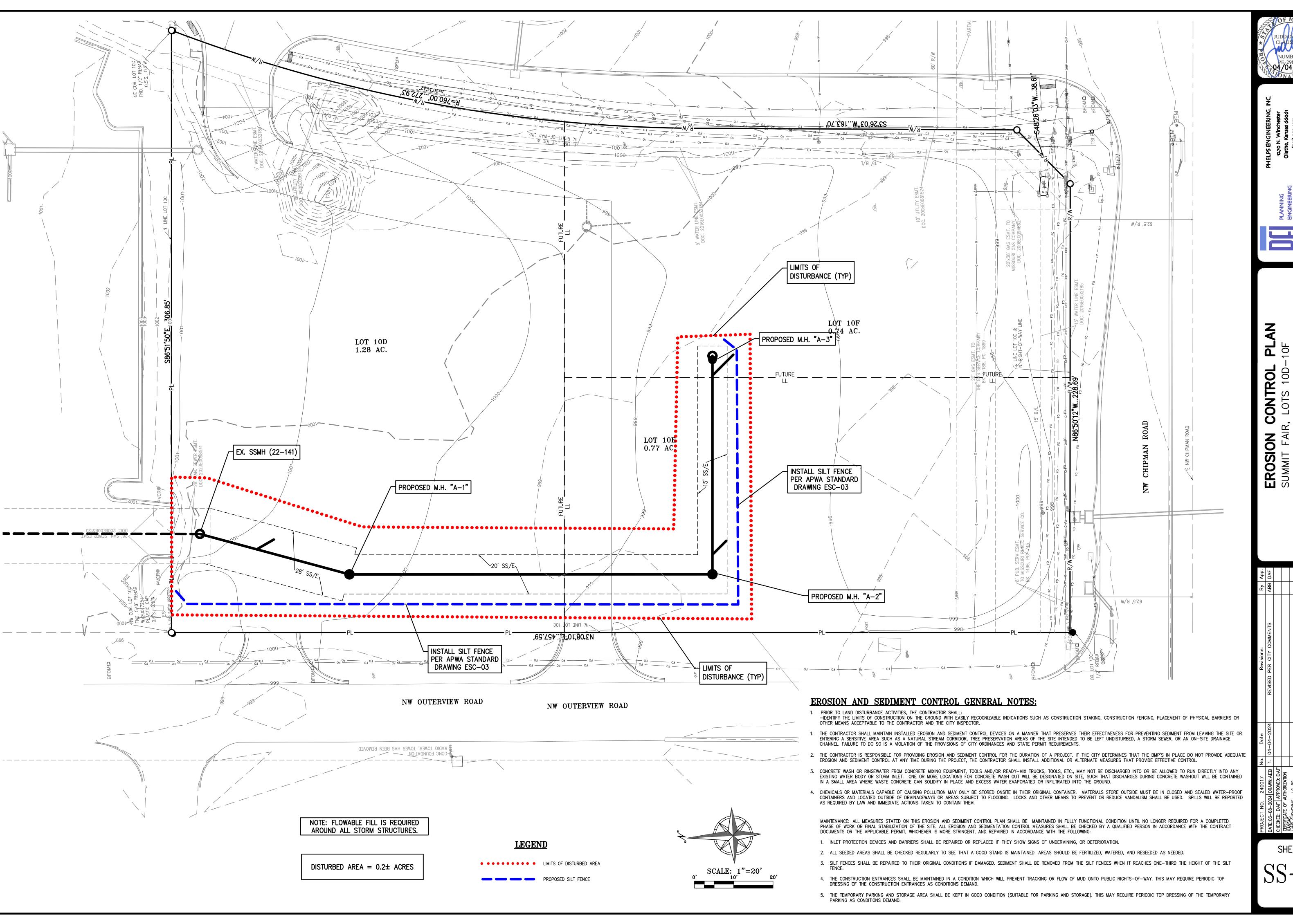
rte Revisions: By App. —2024 REVISED PER CITY COMMENTS ABB DAF

TE: 03-08-2024 DRAWN: AEB 1. 04-04-2024
ECKED: DAF APPROVED: DAF
RIFICATE OF AUTHORIZATION
NSAS
ND SURVEYING - LS-82
GINEERING - E-391
RIFICATE OF AUTHORIZATION
RIFICATE OF AUTHORIZATION
SSOURI

SHEET SS-1



SHEET





. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHICHEVER IS GREATER. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO 2. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY

- SEWER MAIN). 3. 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.
- 4. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL. 5. #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. 6. 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.
- 7. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
  8. 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 SANITARY SEWER STUB DETAIL

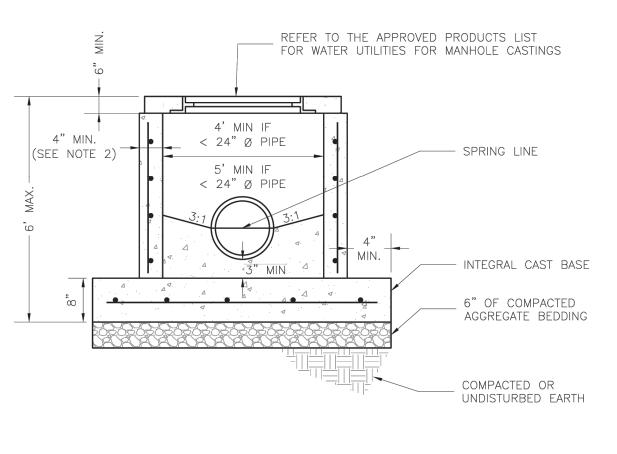
rawn By: MJF necked By: DL

---- FINISH GRADE PROVIDE JOINT SEALANT BETWEEN ALL
- JOINTS AND WRAP EXTERIOR OF JOINTS IN ACCORDANCE WITH SECTION 3500 12" MAXIMUM ADJUSTING RINGS AS REQUIRED 4" MIN (SEE NOTE 2) 4' MIN IF < 24"Ø PIPE MIN IF > 24"Ø PIPE - SPRING LINE - INTEGRAL CAST BASE 6" OF COMPACTED BEDDING AGGREGATE COMPACTED OR UNDISTURBED EARTH

REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE CASTINGS

- . PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS. . A WALL THICKNESS NOT LESS THAN ONE—TWELFTH  $(rac{1}{12})$  OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 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. 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** Drawn By: MF MISSOURI hecked By: AB STANDARD SANITARY PRECAST MANHOLE



PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE

2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER

WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL

THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH

6. PROVIDE STEPS AS SHOWN ON THE APPROVED PRODUCTS LIST FOR MANHOLE DEPTHS GREATER THAN 4'.

**LEE'S SUMMIT** 

STANDARD SHALLOW SANITARY PRECAST MANHOLE

MISSOURI

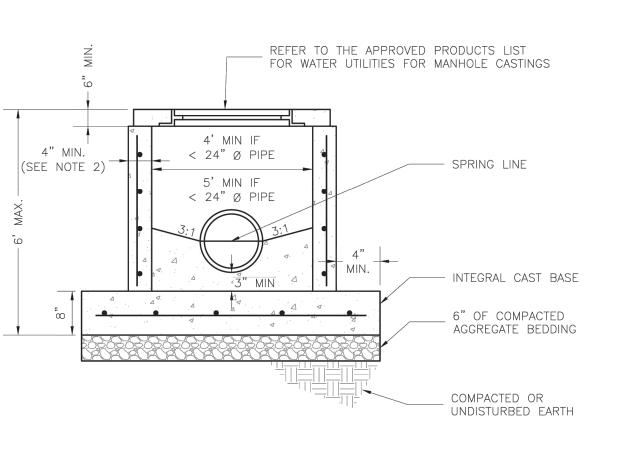
CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THEN 14 MILS OF BITUMINOUS COATING.

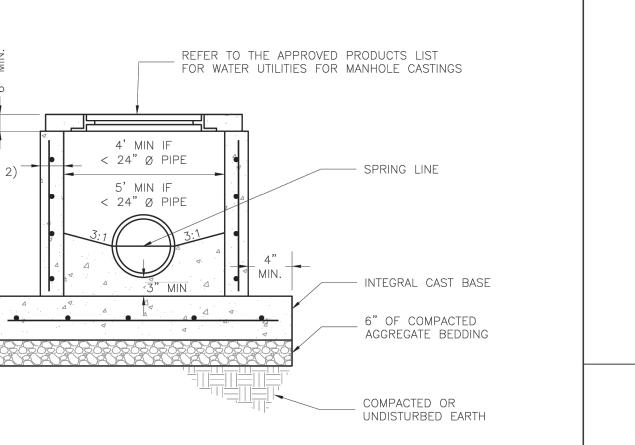
. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE GASKET MODELS.

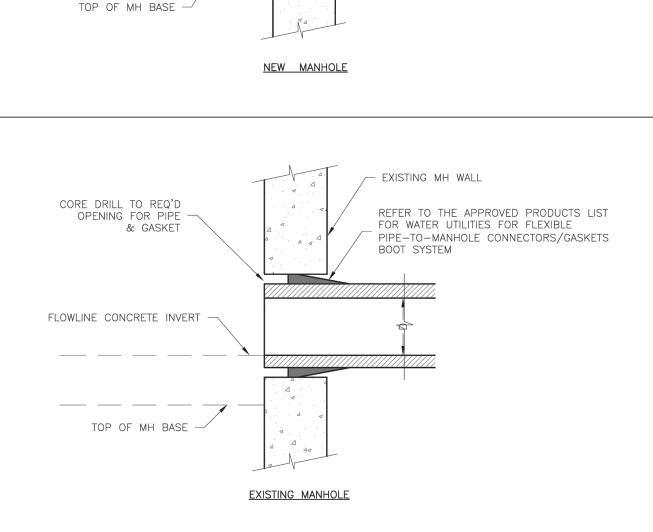
SPECIFICATIONS.

IS GREATER SHALL BE USED.

TRANSITION INTO THE FLOW LINE.







REFER TO THE APPROVED PRODUCTS LIST

PIPE-TO-MANHOLE CONNECTORS/GASKETS

CAST INTO THE PRECAST WALL STRUCTURE.

FOR WATER UTILITIES FOR FLEXIBLE

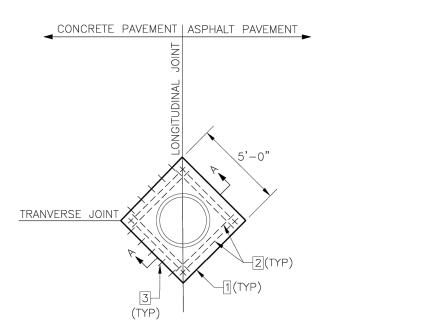
Drawn By: MJF

ecked By: DL

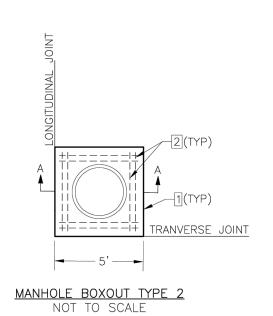
FLOWLINE OF

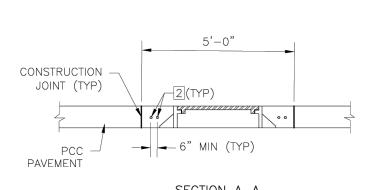
CONCRETE INVERT

LEE'S SUMMIT Date: 02/2013 Drawn By: MJF MISSOURI hecked By: DL PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063 SAN-5 MANHOLE WALL CONNECTION



MANHOLE BOXOUT TYPE 1

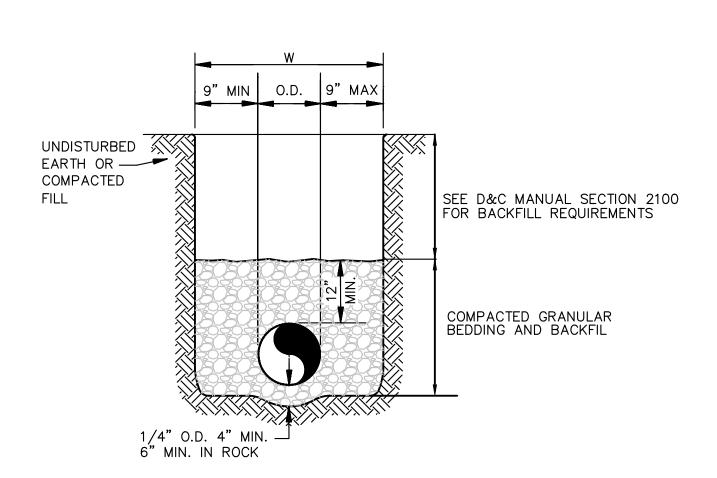




- MINIMUM 2" CLEAR ON REINFORCEMENT. CENTER CASTING WITHIN BOXOUT AREA. - CONCRETE SHALL BE KCMMB 4K MIX. - ALL STEEL SHALL BE EPOXY COATED. - FOR CONSTRUCTION JOINT DETAIL, SEE DETAIL 2 ON SHEET GEN—10, TYPICAL PAVEMENT JOINT DETAILS. 1 CONSTRUCTION JOINT.

2 4'-8"(TYP) #4 BAR. PLACE AT MID-SLAB. 3 #4 DOWELS @ 12" O.C. INTO CONCRETE PAVEMENT MIN. LENGTH 12".

U #4 DOWLLS	9 12 O.C. INTO CONCRETE FAVENIENT MIN. LENGTH 12.	
LS	LEE'S SUMMIT MISSOURI	Date: 08/2023
		Drawn By: MJF
		Checked By: AB
	PUBLIC WORKS ENGINEERING DIVISION   220 SE GREEN STREET   LEE'S SUMMIT, MO 64063	
	MANHOLE BOXOUT IN PAVEMENT DETAIL	SAN-9



SANITARY SEWER - PVC (SDR-26)

SCALE: NOT TO SCALE

PIPE INSTALLATION DETAIL



**DE**