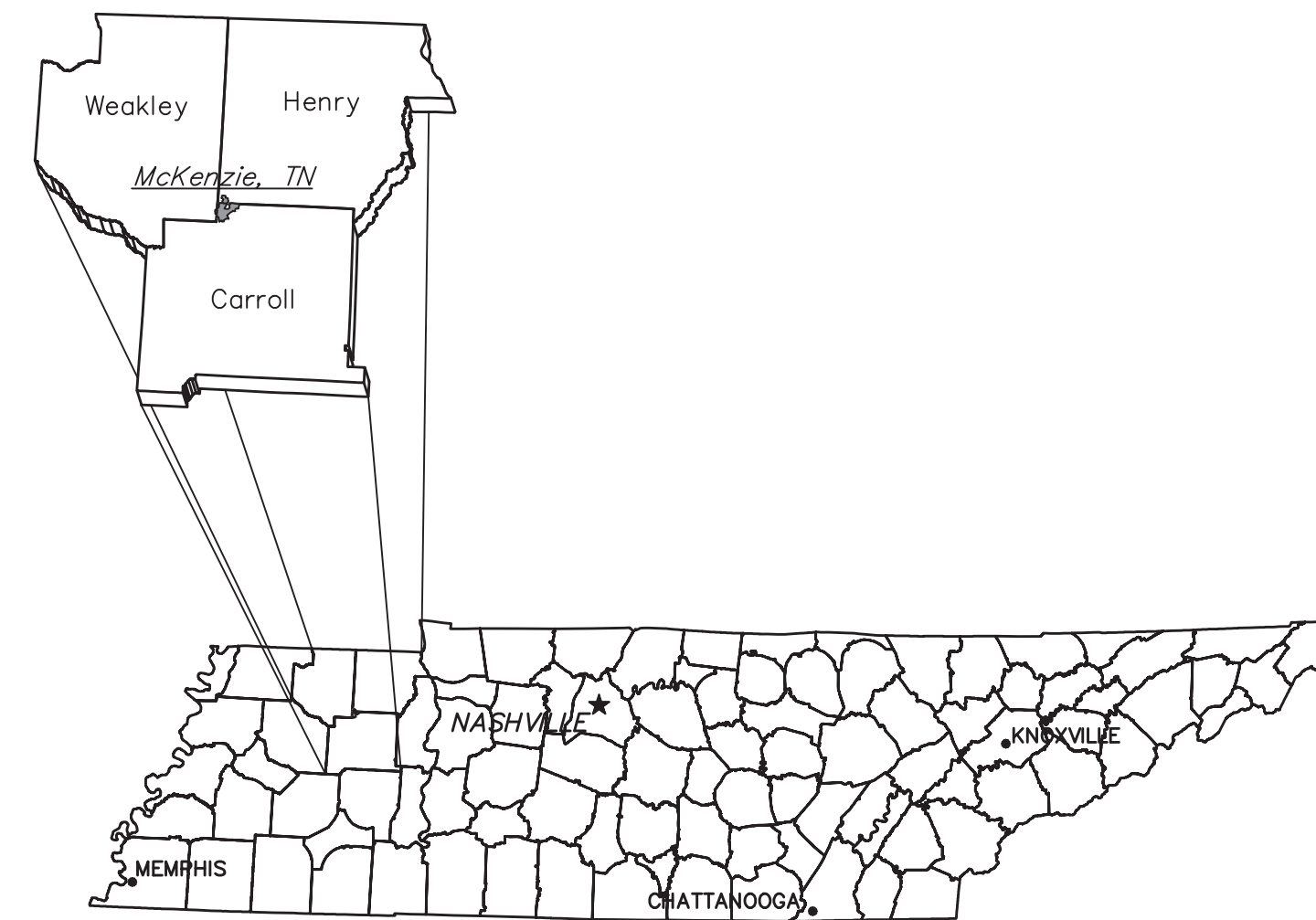


# 2022 CDBG SEWER REHABILITATION CONTRACT B. CDBG PROJECT NO. 15352

## TOWN OF MCKENZIE, TENNESSEE

### INDEX OF SHEETS

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C-03	SANITARY SEWER REHABILITATION CEDAR STREET
C-04	SANITARY SEWER REHABILITATION UNIVERSITY DRIVE
C-05	SANITARY SEWER REHABILITATION ROCHELLE ROAD
RD-06	STANDARD REHAB DETAILS
RD-07	STANDARD REHAB DETAILS
EC-08	STANDARD EROSION CONTROL DETAILS

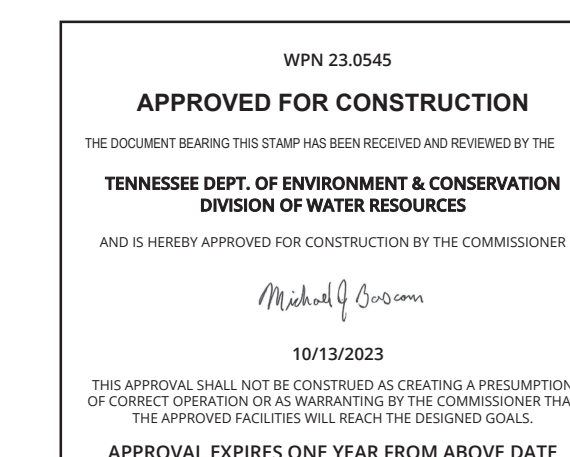


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SEPTEMBER 2023



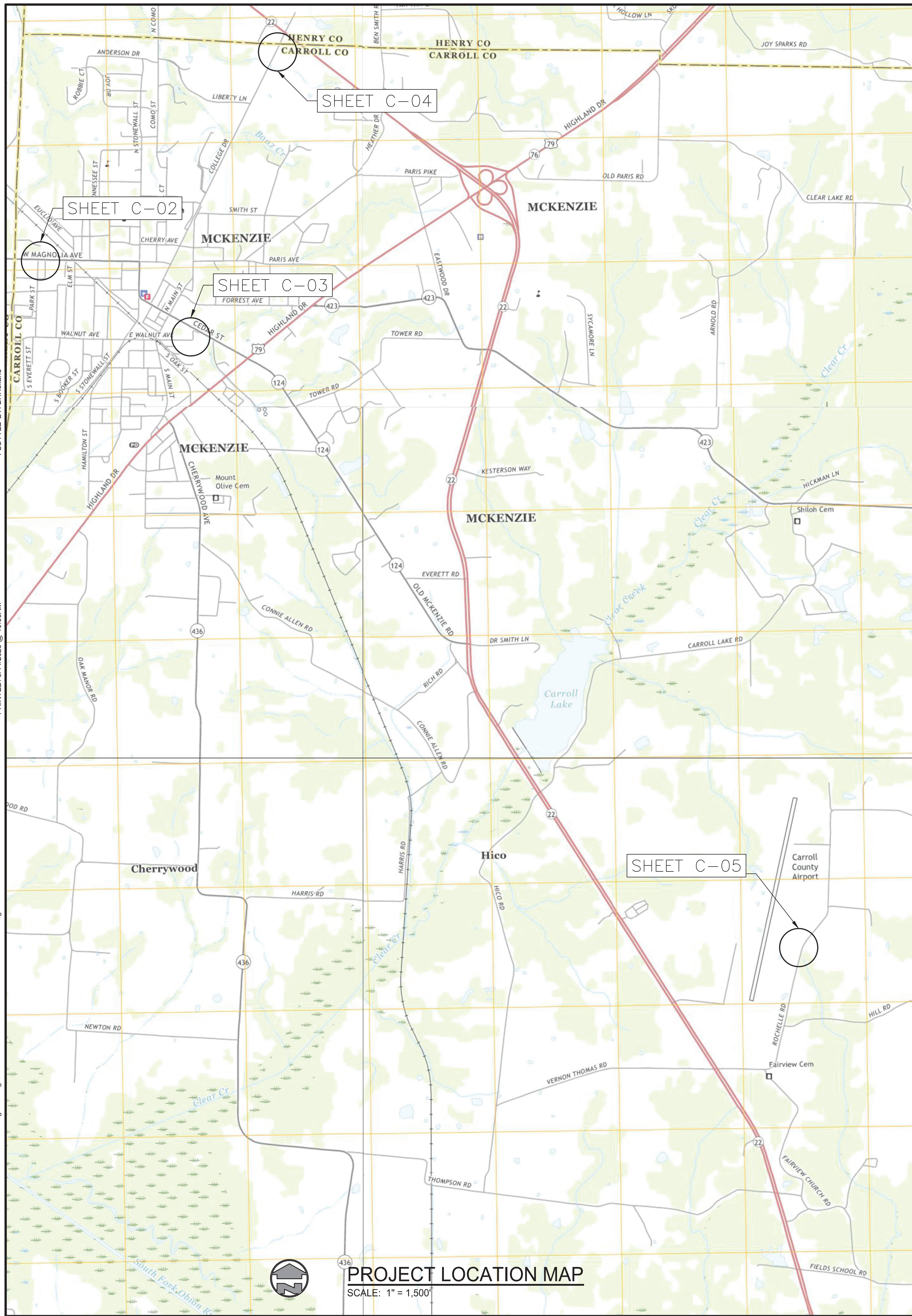
GRW PROJECT NO. 3849-13-B



PLOTTED BY: Bhholland

PRINTED: 9/14/2023 @ 10:03AM

FILE NAME: G:\3846-McKenzie\13-22 CDBG Rehab\Working Drawings\AutoCAD\CONTRACT-B\3846-13-22-B-G-01.dwg



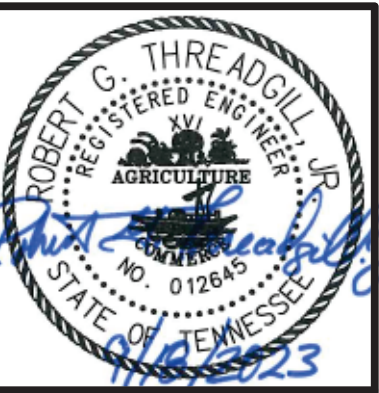
**PROJECT LOCATION MAP**  
SCALE: 1" = 1,500'

**EROSION & SEDIMENT CONTROL NOTES:**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- NO WORK MAY PROCEED UNTIL A NOTICE OF COVERAGE (NOC) HAS BEEN ISSUED BY THE STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION.
- THE SWPPP SHALL BE AVAILABLE AT THE SITE FOR REVIEW AT ALL TIMES.
- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL SILT FENCE ON THE DOWNHILL SIDE OF THE PROPOSED CONSTRUCTION AREA.
- CONTRACTOR SHALL PROVIDE DITCH CHECKS AS REQUIRED.
- CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY EROSION CONTROL BLANKET/MATTING ON ALL SLOPES GREATER THAN 4:1 UNLESS NOTED OTHERWISE.
- ALL AREAS TO REMAIN BARE MORE THAN 15 DAYS SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES (BMP'S).
- TDEC REGULATIONS REQUIRE THAT STABILIZATION MEASURES BE INITIATED WITHIN 7 DAYS AFTER CONSTRUCTION OR LAND DISTURBANCE ACTIVITIES HAVE BEEN TEMPORARILY OR PERMANENTLY TERMINATED.
- THE ONLY EXCEPTIONS, FOR NOTE 8, ARE FOR CASES WHERE SNOW COVER, FROZEN GROUND, OR EXCESSIVELY WET CONDITIONS PRECLUDE INITIATION OF STABILIZATION OR WHERE LAND DISTURBANCE ACTIVITIES WILL BE RESUMED ON THAT PORTION OF THE SITE WITHIN 15 DAYS.
- EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED IF NECESSARY AT LEAST TWICE EACH CALENDAR WEEK IN ACCORDANCE WITH THE SWPPP.
- ALL EROSION CONTROL MEASURES UTILIZED WITHIN STATE OF TENNESSEE ROW'S SHALL MEET OR EXCEED THE TDOT REQUIREMENTS.
- EROSION AND SEDIMENT CONTROL MEASURES AND STRUCTURES SHALL BE INSPECTED TWICE A WEEK 72 HOURS APART.

**GENERAL NOTES**

- THE CONTRACTOR SHALL RESTORE ALL CULVERTS, FENCES, WALLS, SMALL ORNAMENTAL TREES, CULTIVATED SHRUBS, FLOWERS, SIGNS, LIGHTS AND POWER POLES, STREET MARKERS, MAIL BOXES, WATER AND GAS LINES, WATER AND GAS METERS AND BOXES INCLUDING SHUT-OFFS, AND LAWNS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITIONS. THE COST OF THIS WORK SHALL BE MERGED IN THE UNIT BID AND CONTRACT PRICES FOR THE PROPOSED WORK.
- WHERE IN EASEMENTS THE CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION, EXCEPT AS NOTED.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. BEFORE CONSTRUCTION, CONTRACTOR SHALL CONTACT :  
  
TENNESSEE811  
DIAL 811 (OR 1-800-351-1111)  
**72 HOURS NOTICE**
- IF ANY EXISTING STORM SEWERS ARE SUBSTANTIALLY DAMAGED AS DETERMINED BY THE A/E AND OR OWNER, THE REPAIR SHALL BE MADE WITH R.C.P. PIPE FROM STRUCTURE-TO-STRUCTURE. PIPE SIZE SHALL BE EQUAL TO EXISTING.
- SUFFICIENT PRECAUTIONS SHALL BE TAKEN DURING CONSTRUCTION TO MINIMIZE THE RUN-OFF OF POLLUTING SUBSTANCES SUCH AS SILT, CLAY, FUELS, OILS, BITUMENS, CALCIUM CHLORIDE, OR OTHER POLLUTING MATERIALS HARMFUL TO HUMANS, FISH OR OTHER LIFE, INTO THE SUPPLIES AND SURFACE WATERS OF THE STATE. CONTROL MEASURES MUST BE ADEQUATE TO ASSURE THAT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS ARE MET. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE LAWS AND REGULATIONS ARE MET AND IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION DOES NOT HARM THE WATERS OF TENNESSEE. THE PROTECTION OF THE SITE SHALL CONTINUE THROUGHOUT THE CONSTRUCTION PERIOD. SPECIAL PRECAUTIONS SHALL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT OPERATIONS WHICH PROMOTE EROSION.
- THE TEMPORARY POLLUTION CONTROL PROVISIONS SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL MEASURES, TO ENSURE ECONOMIC, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST-CONSTRUCTION PERIOD OF THE PROJECT. NATURAL COVER SHOULD BE MAINTAINED AS LONG AS POSSIBLE AND GRADED AREAS SHOULD BE STABILIZED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE APPROPRIATE FEDERAL, STATE, COUNTY AND/OR LOCAL AGENCIES TO CROSS ALL HIGHWAYS, STREETS, STREAMS, EASEMENTS, ETC...
- STATE HIGHWAY RIGHT-OF-WAY INFORMATION PROVIDED BY THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION. QUESTIONS CONCERNING R-O-W LOCATION ON ANY STATE HIGHWAY SHOULD BE REFERRED TO THE APPROPRIATE REGIONAL OFFICE OF THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION:
- PROPERTY OWNERS AND PARCEL INFORMATION PROVIDED BY THE COUNTY REGISTRAR OF DEEDS.
- SEWER INFORMATION PROVIDED BY THE CITY OF CROSSVILLE.
- COUNTY ROAD RIGHT-OF-WAY INFORMATION PROVIDED BY THE COUNTY HIGHWAY DEPT. QUESTIONS CONCERNING R-O-W LOCATION ON ANY COUNTY ROAD SHOULD BE REFERRED TO THE COUNTY HIGHWAY DEPARTMENT.



GRW PROJECT NO. 3849-13-B



**PROJECT LOCATION MAP AND GENERAL NOTES**  
2022 CDBG SEWER REHAB - CONTRACT B.  
CITY OF MCKENZIE, TENNESSEE

NO.	REVISIONS DESCRIPTION	DESIGNED		DRAWN		REVIEWED		APPROVED	
		LER	BHH	LER	LER	LER	LER		

DATE: SEPTEMBER, 2023  
SCALE: 1" = 1500'  
SHEET NO.



**G-01**

CONTRACT DOCUMENTS

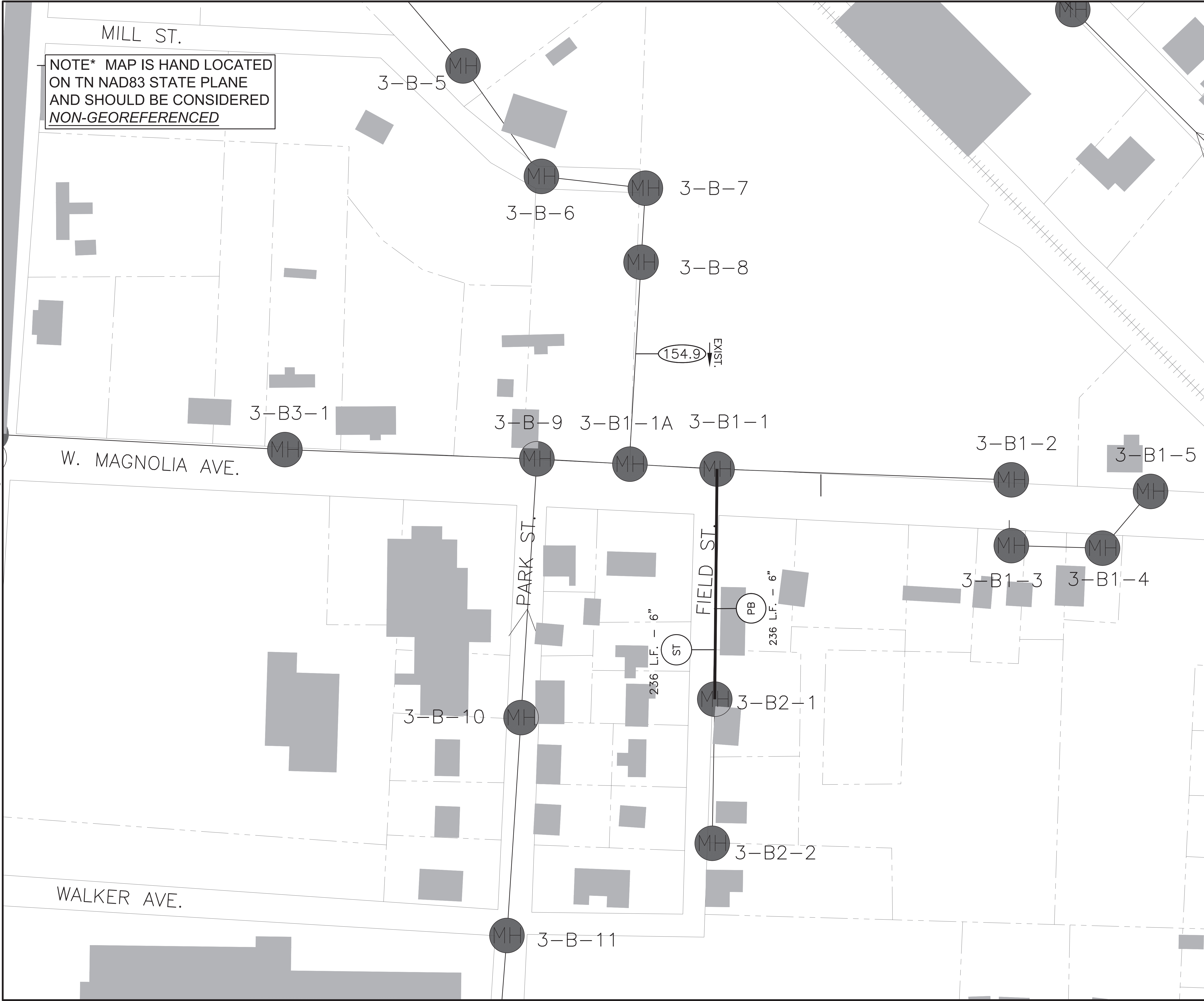


PLOTTED BY: BHHolland

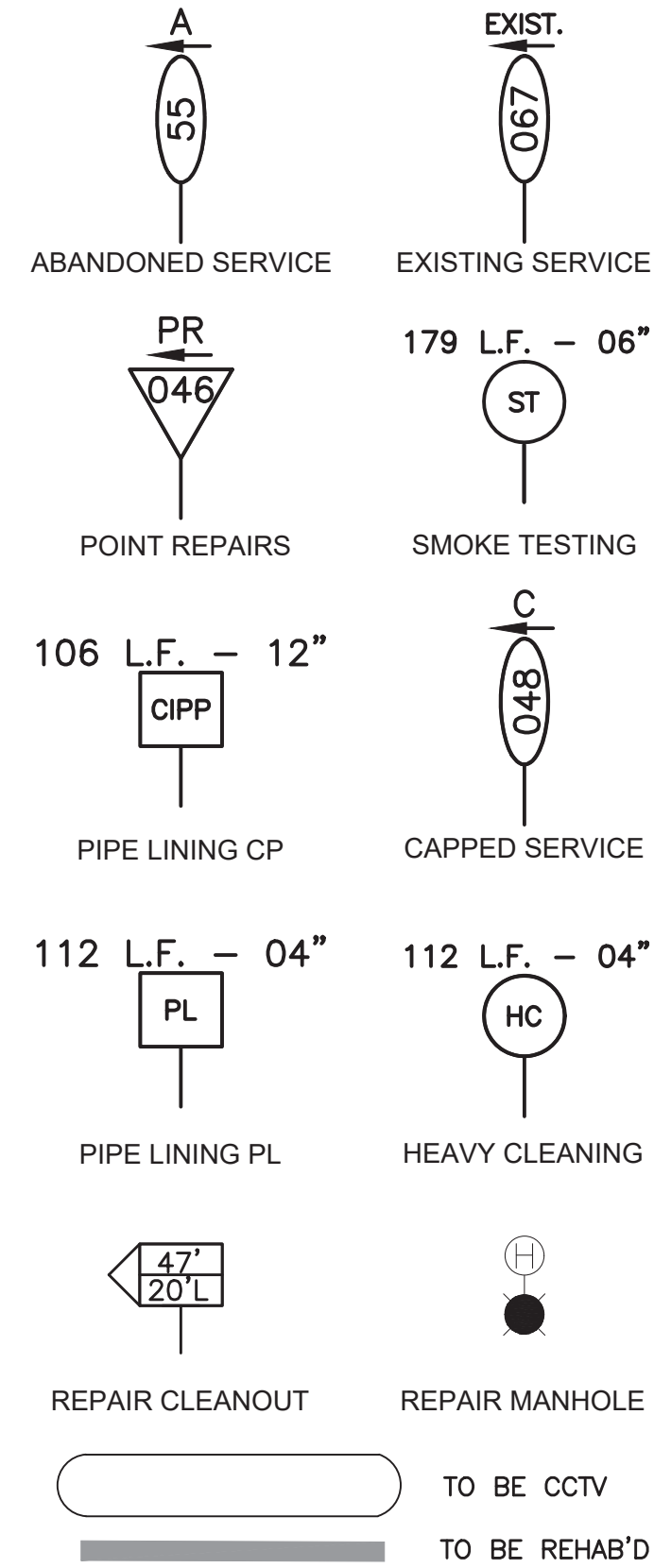
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NOTE\* MAP IS HAND LOCATED ON TN NAD83 STATE PLANE AND SHOULD BE CONSIDERED NON-GEOREFERENCED

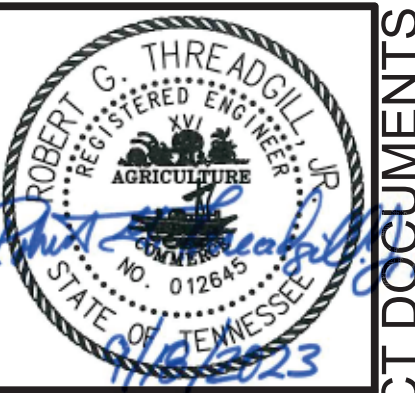


**SEWER REHABILITATION STANDARD LEGEND**



- MANHOLE REHABILITATION**
- MANHOLE EXTRA DEPTH
- (8) 6.1 TO 8.0 DEPTH
  - (10) 8.1 TO 10.0 DEPTH
  - (12) 10.1 TO 12.0 DEPTH
  - (14) 12.1 TO 14.0 DEPTH
  - (16) 14.1 TO 16.0 DEPTH
  - (20) 18.1 TO 20.0 DEPTH
  - (NA) UNKNOWN DEPTH
- MANHOLE REPAIRS**
- (A) LOCATE/UNCOVER
  - (B) NON-ENTRY INSPECTION
  - (C) RESET FRAME
  - (D) REPLACE FRAME/COVER
  - (E) REPLACE COVER
  - (F) REPLACE EXISTING WATERTIGHT FRAME & COVER
  - (G) RAISE CASTING
  - (H) MANHOLE REHABILITATION
  - (H2) ADD H2S PROTECTION
  - (I) NEW MANHOLE INSTALLATION
  - (J) ADD BENCH TO MANHOLE BOTTOM
  - (K) PLUG & FILL AROUND PIPES
  - (L) REHAB RISERS
  - (M) MISC. SEE NOTE

- ABBREVIATIONS**
- CCTV - CLEAN AND CCTV LINE
  - CO - REPLACE CLEANOUT
  - CNL - COULD NOT LOCATE
  - CP - CURED-IN-PLACE LINING
  - IPR - INTERNAL POINT REPAIR
  - C/L - CLEAN AND LINE MANHOLE
  - NA - NOT APPLICABLE
  - PE - POLYETHYLENE
  - PL - PIPE LINING
  - PL/B - PIPE BURSTING
  - PL/R - REPLACE PIPE
  - PP - PRIVATE PROPERTY
  - PR - POINT REPAIR
  - PVC - POLYVINYL CHLORIDE
  - SL - SLIP Lining
  - SOS - SERVICES ON SEGMENT
  - SR - SERVICE REPAIR



GRW PROJECT NO. 3849-13-B

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**SANITARY SEWER REHABILITATION  
WEST MAGNOLIA STREET  
2022 CDBG SEWER REHAB - CONTRACT B.  
CITY OF MCKENZIE, TENNESSEE**

DESIGNED	LER	BY	DATE

DRAWN	BHH	REVIEWED	APPROVED

NO.	DESCRIPTION	DATE

DATE: SEPTEMBER, 2023

SCALE: 1" = 50'

SHEET NO.

CONTRACT DOCUMENTS



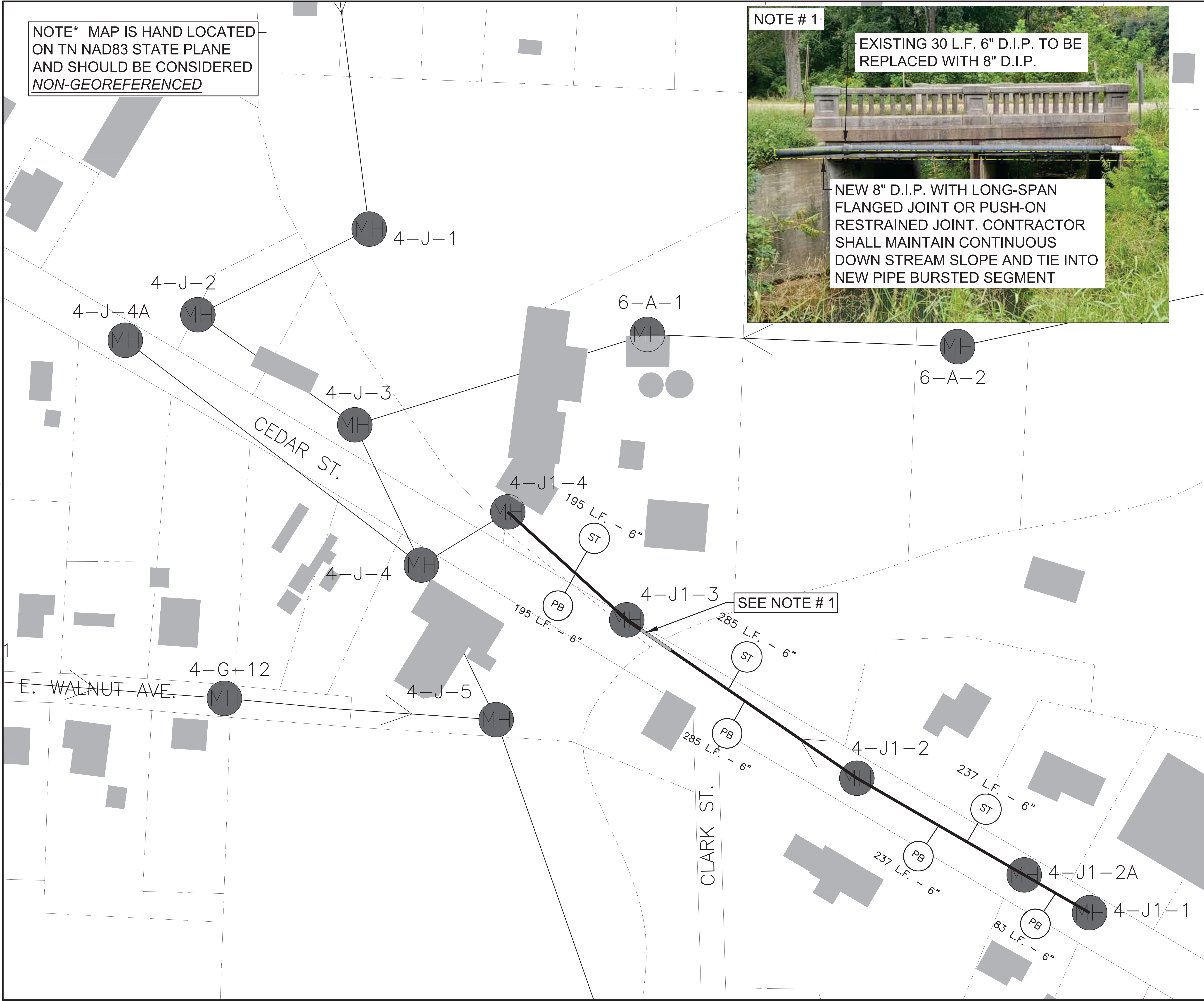
NOTE\* MAP IS HAND LOCATED ON TN NAD83 STATE PLANE AND SHOULD BE CONSIDERED **NON-GEOREFERENCED**

NOTE # 1-

EXISTING 30 L.F. 6" D.I.P. TO BE REPLACED WITH 8" D.I.P.

NEW 8" D.I.P. WITH LONG-SPAN FLANGED JOINT OR PUSH-ON RESTRAINED JOINT. CONTRACTOR SHALL MAINTAIN CONTINUOUS DOWN STREAM SLOPE AND TIE INTO NEW PIPE BURSTED SEGMENT

FILE NAME: G:\3849-McKenzie\13-22 CDBG Rehab\Working Drawings\AutoCAD\CONTRACT-B\3849-13-22-B-C-SHEETS.dwg  
 PRINTED: 9/14/2023 @ 10:03AM  
 PLOTTED BY: B.Holland



**SEWER REHABILITATION STANDARD LEGEND**

ABANDONED SERVICE: A 55  
 EXISTING SERVICE: E 067  
 POINT REPAIRS: PR 046  
 SMOKE TESTING: S 067  
 PIPE LINING CP: 
 CAPPED SERVICE: C 04B  
 PIPE LINING PL: 
 HEAVY CLEANING: 
 REPAIR CLEANOUT: 47' 20'L  
 REPAIR MANHOLE: H

TO BE CCTV: TO BE REHAB'D:

**MANHOLE REHABILITATION**

MANHOLE EXTRA DEPTH

- (B) 6.1 TO 8.0 DEPTH
- (10) 8.1 TO 10.0 DEPTH
- (12) 10.1 TO 12.0 DEPTH
- (14) 12.1 TO 14.0 DEPTH
- (16) 14.1 TO 16.0 DEPTH
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**MANHOLE REPAIRS**

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CONTRACT DOCUMENTS  
 GRW PROJECT NO. 3849-13-B  
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**SANITARY SEWER REHABILITATION**  
**CEDAR STREET**  
 2022 CDBG SEWER REHAB - CONTRACT B.  
 CITY OF MCKENZIE, TENNESSEE

DESIGNED	LER	DRAWN	BHH	REVIEWED	LER	APPROVED	LER

REVISIONS: NO. DATE DESCRIPTION  
 1. SEPTEMBER, 2023  
 SCALE: 1" = 50'  
 SHEET NO. C-03

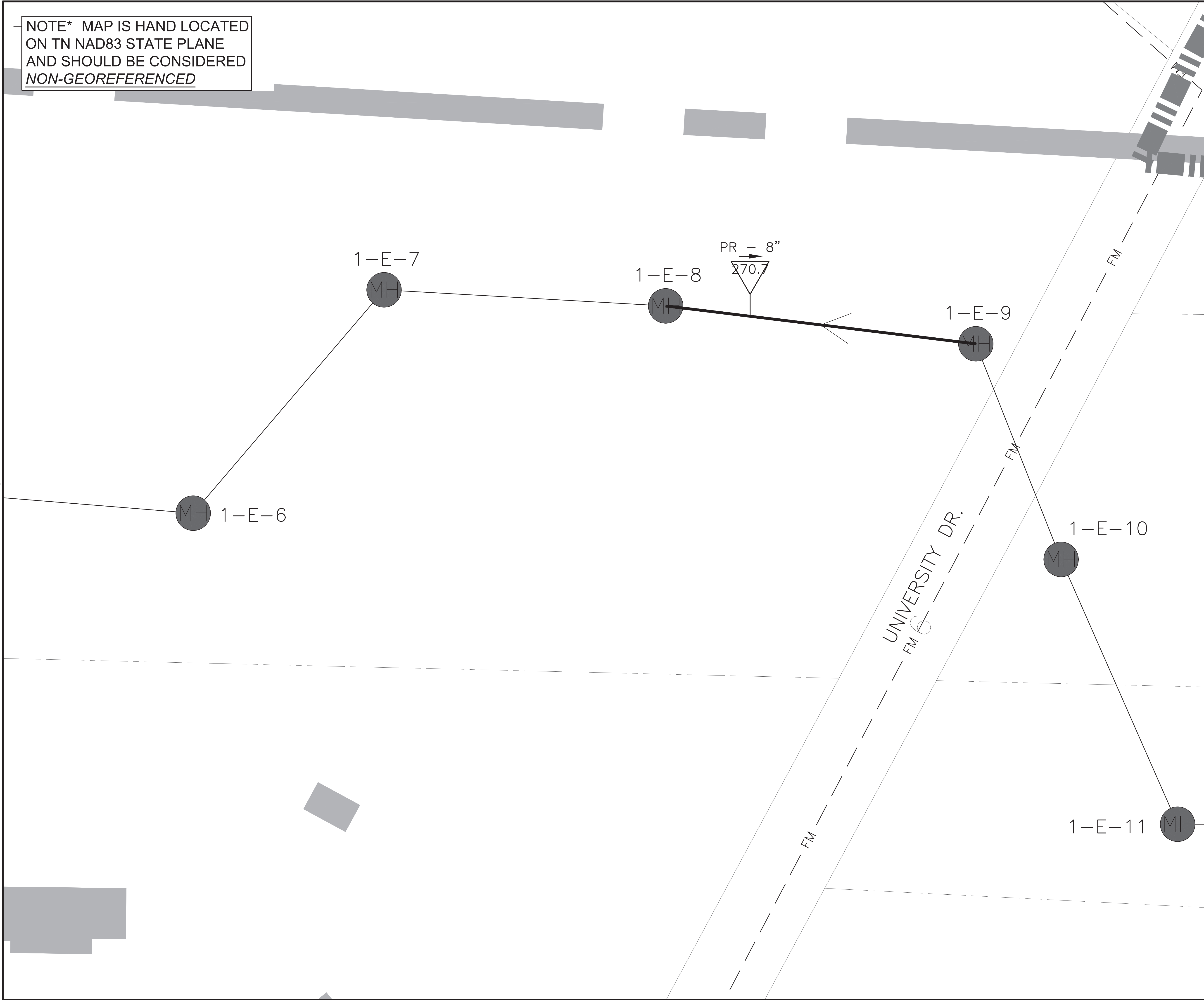


NOTE\* MAP IS HAND LOCATED ON TN NAD83 STATE PLANE AND SHOULD BE CONSIDERED NON-GEOREFERENCED

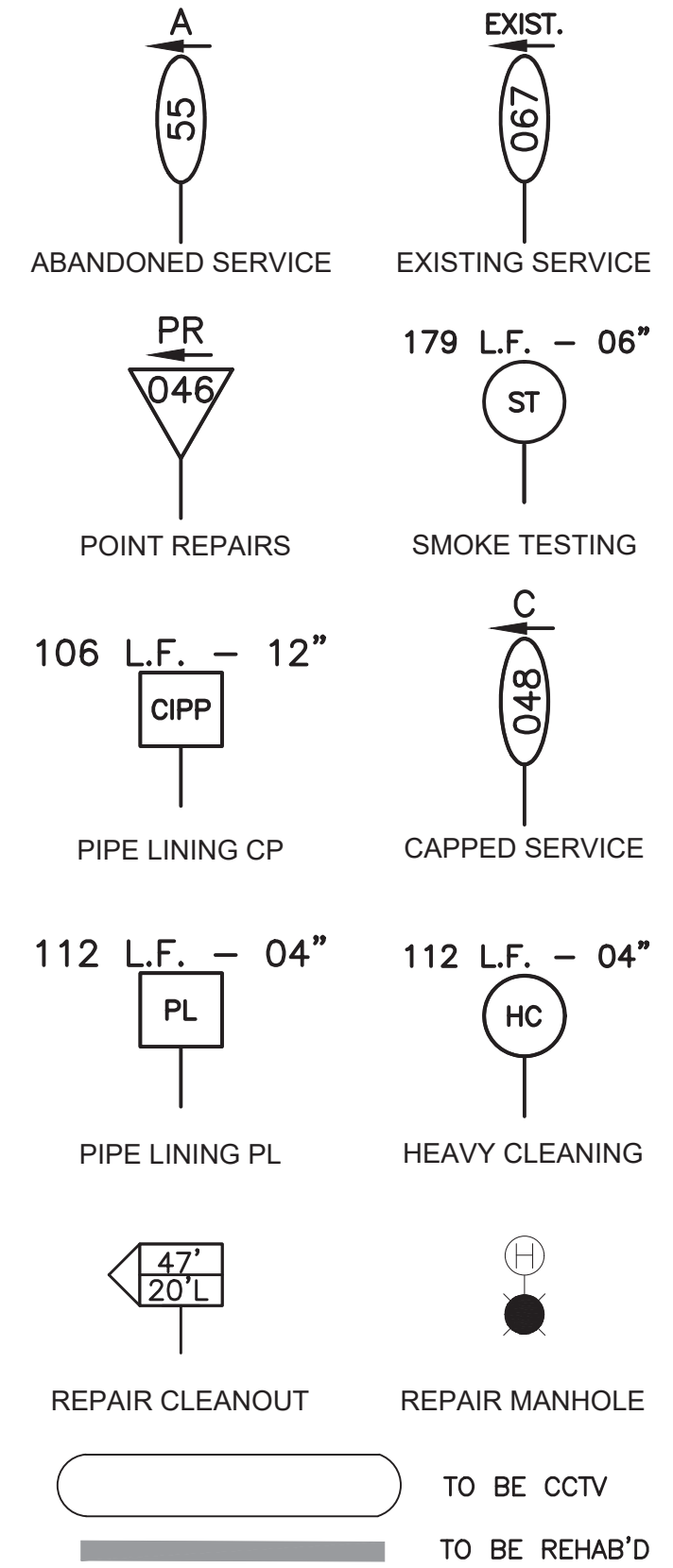
PLOTTED BY: BHHolland

PRINTED: 9/14/2023 @ 10:04AM

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**SEWER REHABILITATION  
STANDARD LEGEND**



**MANHOLE REHABILITATION**

MANHOLE EXTRA DEPTH

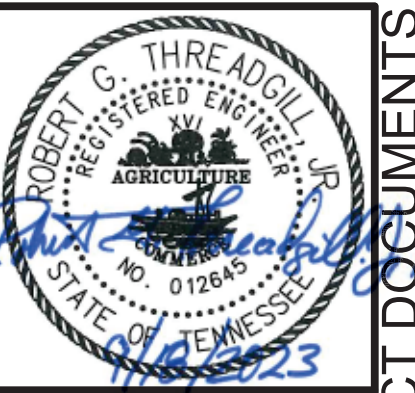
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(12)	10.1 TO 12.0 DEPTH
(14)	12.1 TO 14.0 DEPTH
(16)	14.1 TO 16.0 DEPTH
(20)	18.1 TO 20.0 DEPTH
(NA)	UNKNOWN DEPTH

**MANHOLE REPAIRS**

(A)	LOCATE/UNCOVER
(B)	NON-ENTRY INSPECTION
(C)	RESET FRAME
(D)	REPLACE FRAME/COVER
(E)	REPLACE COVER
(F)	REPLACE EXISTING WATERTIGHT FRAME & COVER
(G)	RAISE CASTING
(H)	MANHOLE REHABILITATION
(H2)	ADD H2S PROTECTION
(I)	NEW MANHOLE INSTALLATION
(J)	ADD BENCH TO MANHOLE BOTTOM
(K)	PLUG & FILL AROUND PIPES
(L)	REHAB RISERS
(M)	MISC. SEE NOTE

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PL/B	PIPE BURSTING
PL/R	REPLACE PIPE
PP	PRIVATE PROPERTY
PR	POINT REPAIR
PVC	POLYVINYL CHLORIDE
SL	SLIP LINING
SOS	SERVICES ON SEGMENT
SR	SERVICE REPAIR



GRW PROJECT NO. 3849-13-B

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**SANITARY SEWER REHABILITATION  
UNIVERSITY DRIVE  
2022 CDBG SEWER REHAB - CONTRACT B.  
CITY OF MCKENZIE, TENNESSEE**

DESIGNED	LER	BHH	LER	LER

NO.	DATE	DESCRIPTION	BY	APPROVED

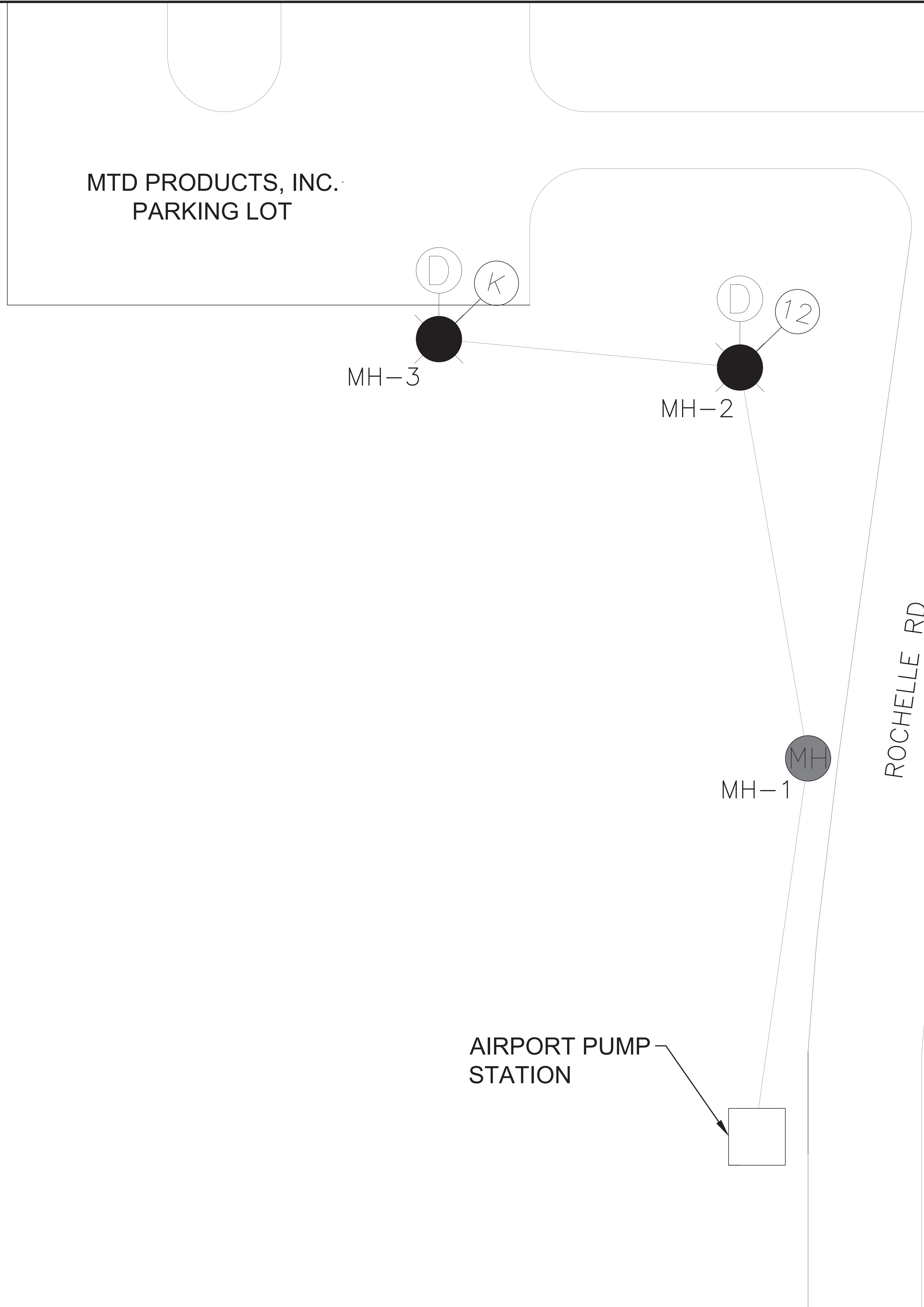
DATE: SEPTEMBER, 2023

SCALE: 1" = 50'

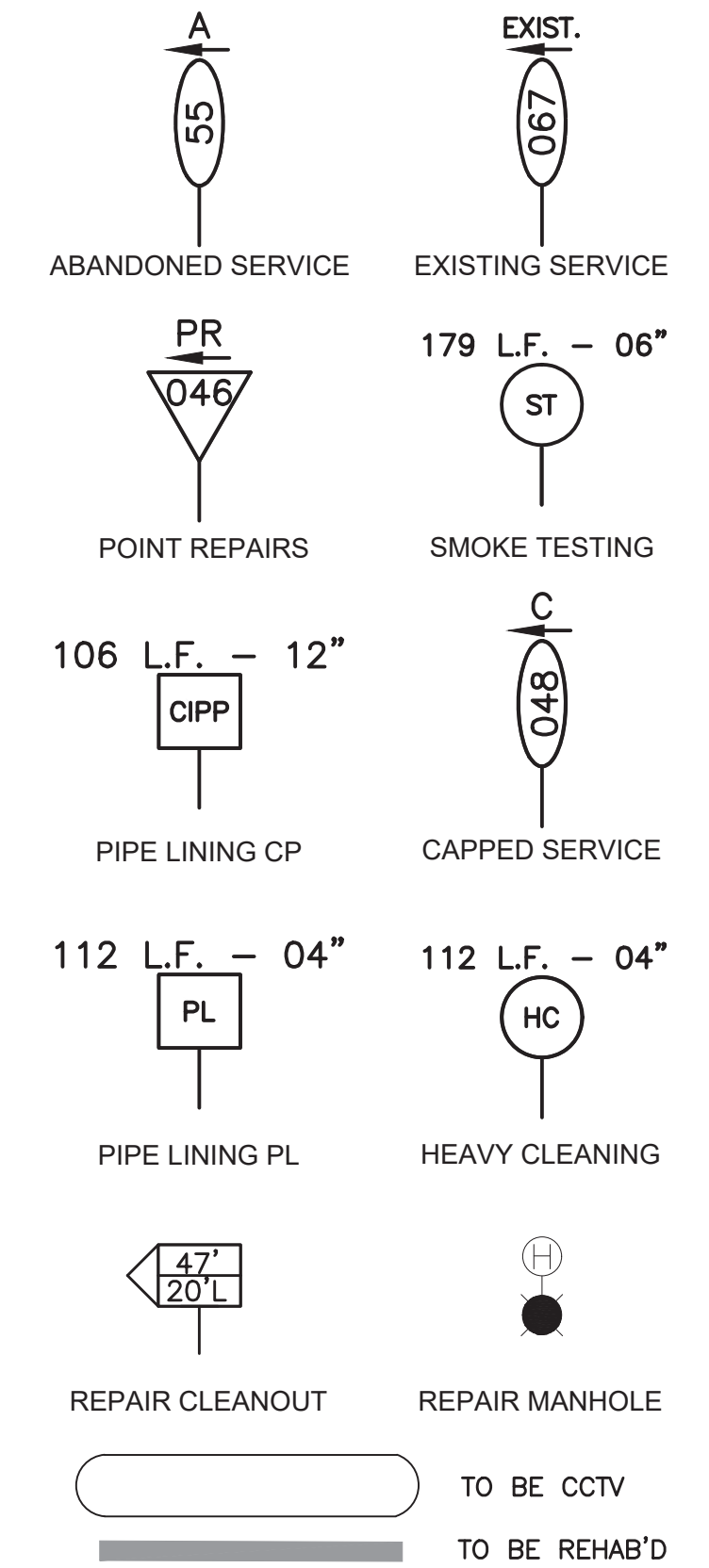
SHEET NO.

C-04

CONTRACT DOCUMENTS



**SEWER REHABILITATION  
STANDARD LEGEND**



**MANHOLE REHABILITATION**

- MANHOLE EXTRA DEPTH**
- (B) 6.1 TO 8.0 DEPTH
  - (10) 8.1 TO 10.0 DEPTH
  - (12) 10.1 TO 12.0 DEPTH
  - (14) 12.1 TO 14.0 DEPTH
  - (16) 14.1 TO 16.0 DEPTH
  - (20) 18.1 TO 20.0 DEPTH
  - (NA) UNKNOWN DEPTH

**MANHOLE REPAIRS**

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- PVC - POLYVINYL CHLORIDE
- SL - SLIP LINING
- SOS - SERVICES ON SEGMENT
- SR - SERVICE REPAIR



GRW PROJECT NO. 3849-13-B

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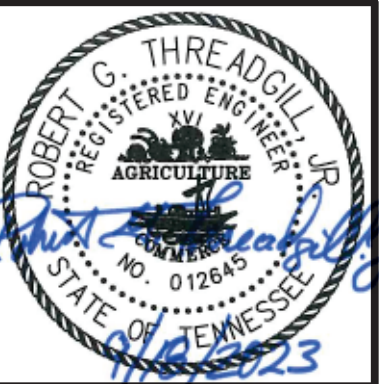
**SANITARY SEWER REHABILITATION  
ROCHELLE ROAD  
2022 CDBG SEWER REHAB - CONTRACT B.  
CITY OF MCKENZIE, TENNESSEE**

DESIGNED	LER	BY	DATE	REVIEWED	LER	APPROVED	LER

DATE: SEPTEMBER, 2023  
SCALE: 1" = 50'  
SHEET NO.

**C-05**





GRW PROJECT NO. 3849-13-B



STANDARD REHAB DETAILS  
2022 CDBG SEWER REHAB - CONTRACT B.  
CITY OF MCKENZIE, TENNESSEE

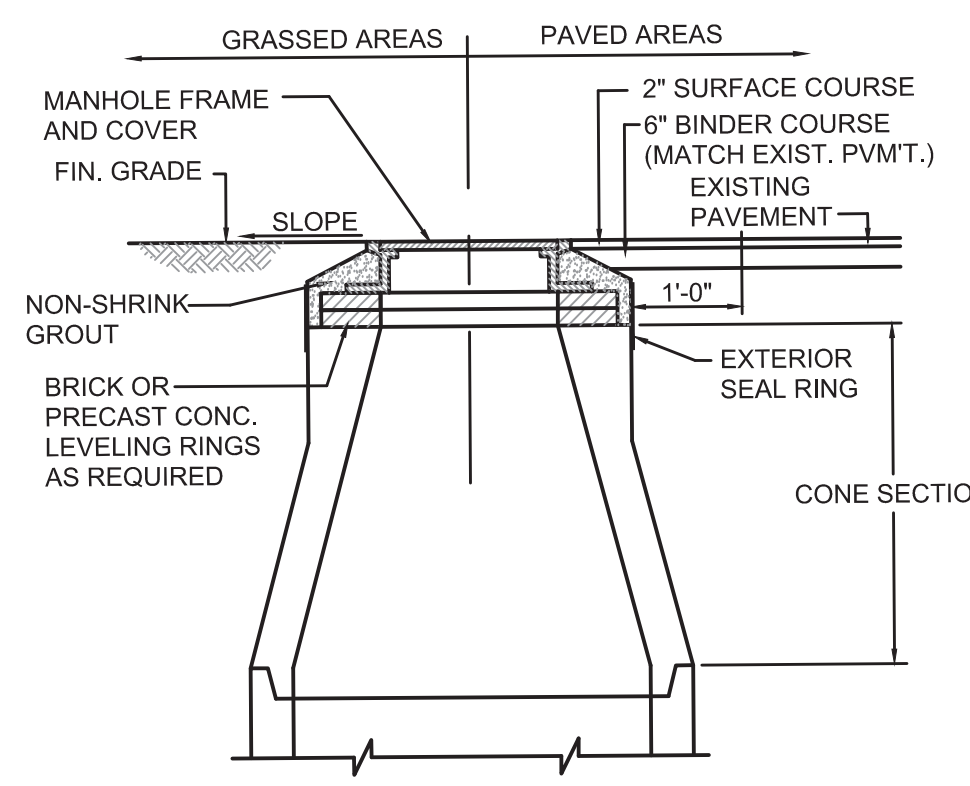
NO.	REVISIONS DESCRIPTION	DATE	BY	DATE	BY

DESIGNED: RGT  
DRAWN: BHH  
REVIEWED: RGT  
APPROVED: RGT

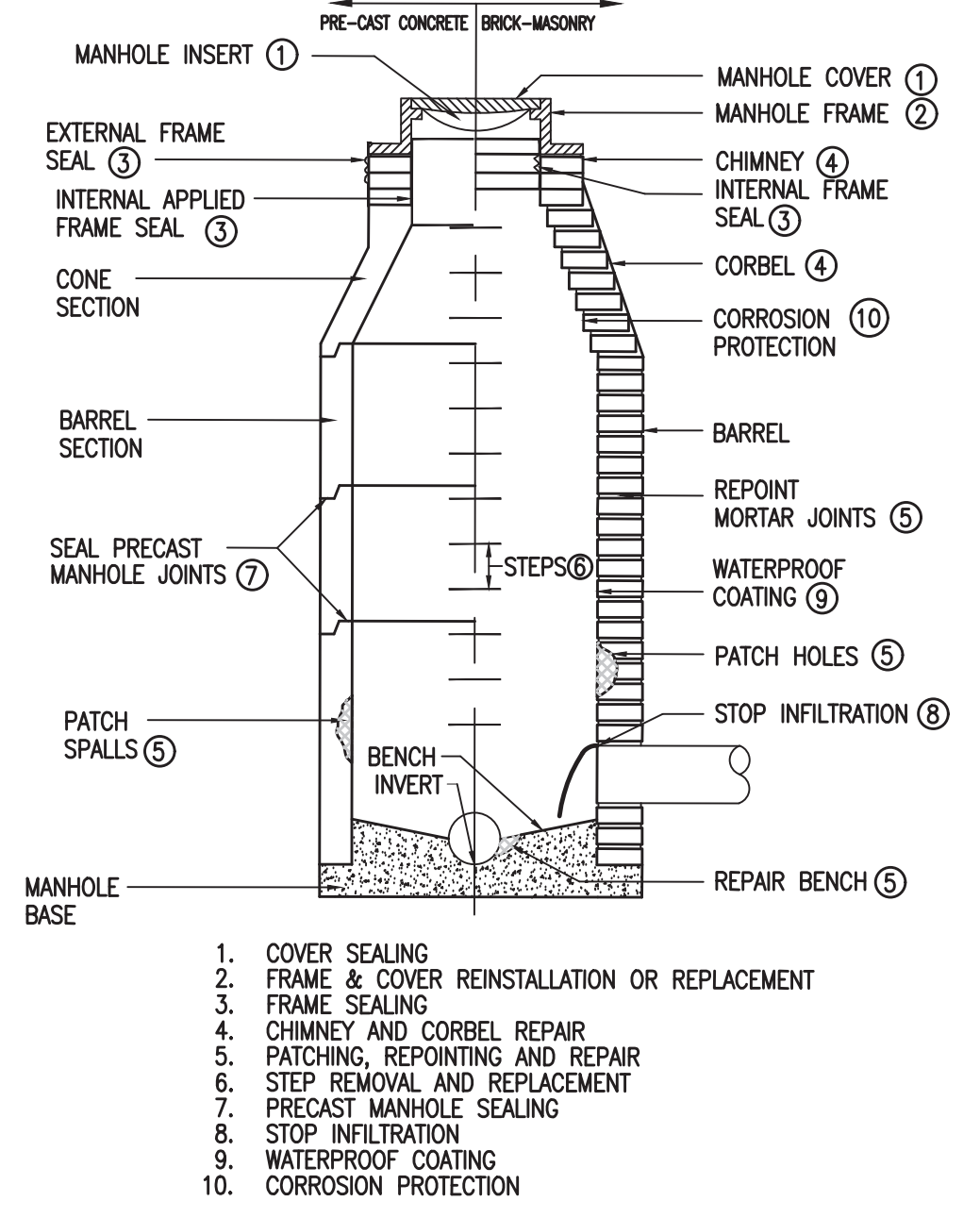
SCALE CHECK: \_\_\_\_\_ THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: SEPTEMBER, 2023  
SCALE: AS NOTED  
SHEET NO. RD-06

CONTRACT DOCUMENTS

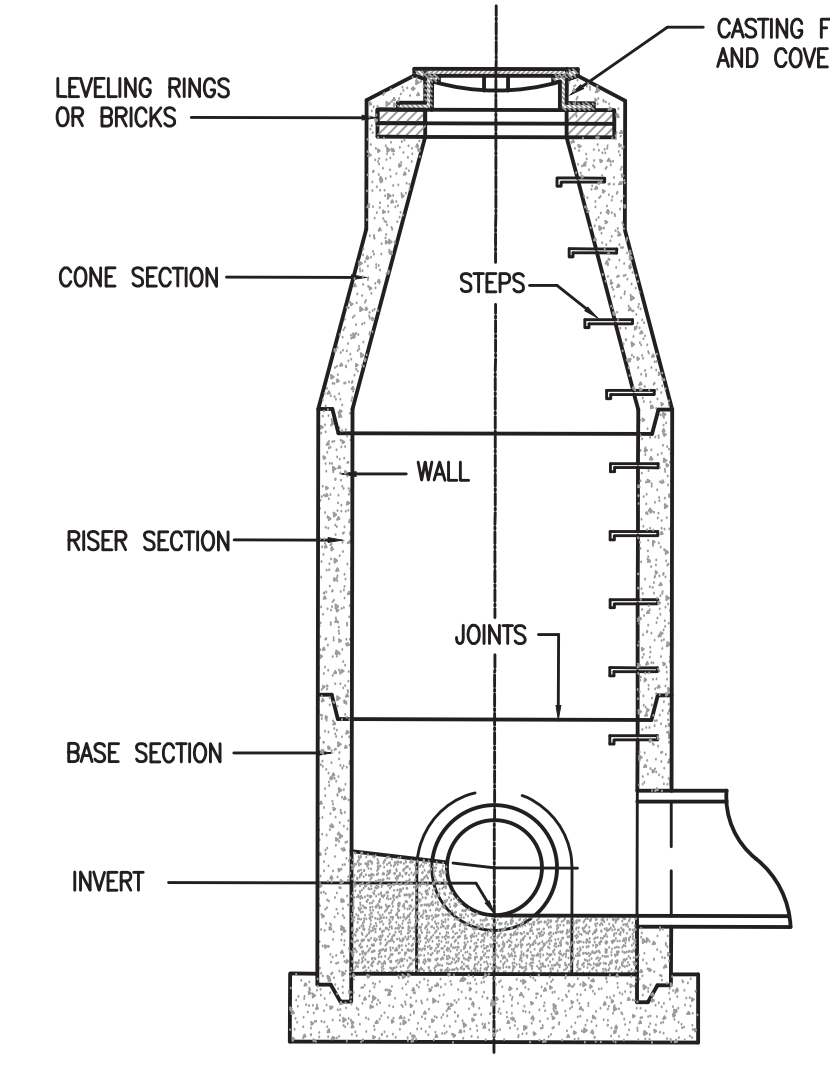


**CASTING INSTALLATION DETAIL**  
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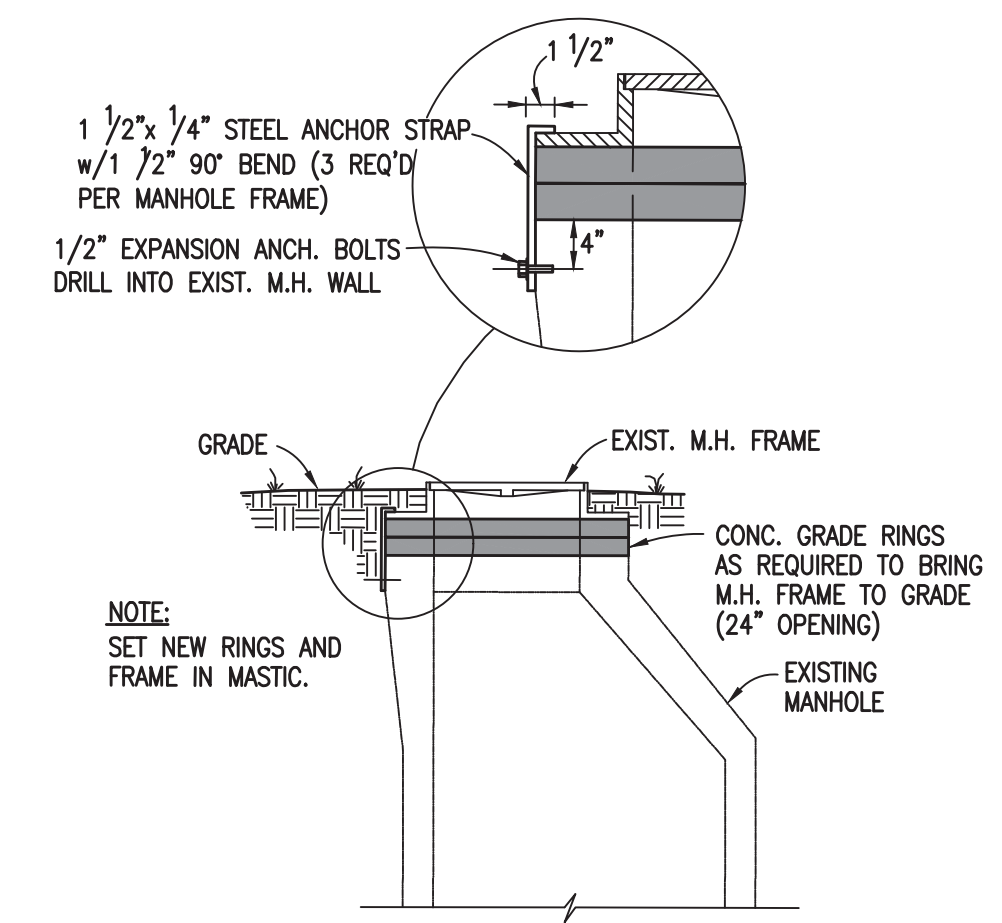


**MANHOLE REHABILITATION DETAIL**  
NOT TO SCALE

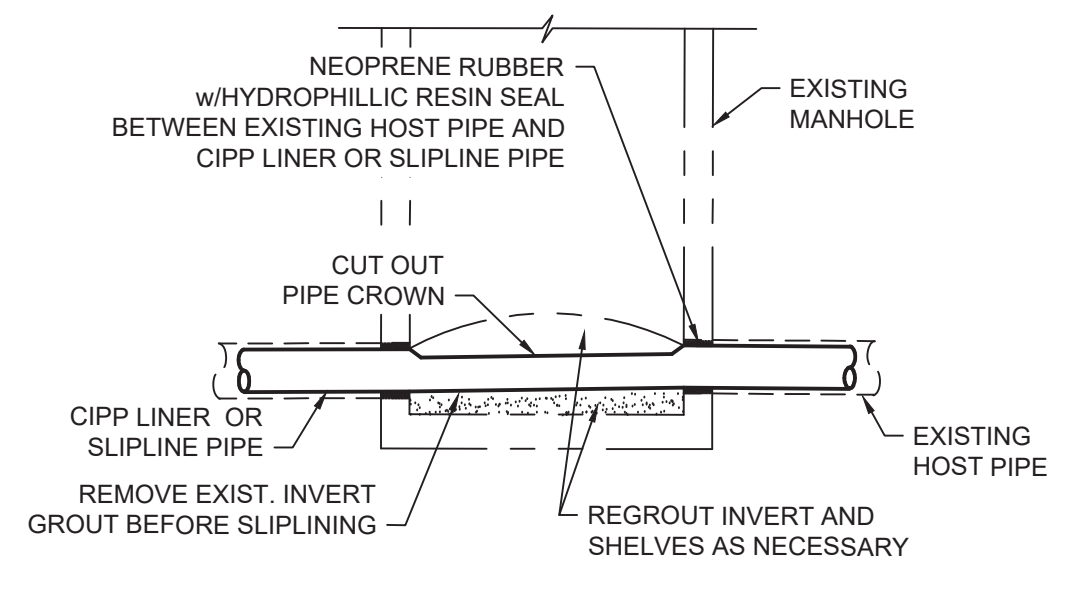
- COVER SEALING
- FRAME & COVER REINSTALLATION OR REPLACEMENT
- FRAME SEALING
- CHIMNEY AND CORBEL REPAIR
- PATCHING, REPOINTING AND REPAIR
- STEP REMOVAL AND REPLACEMENT
- PRECAST MANHOLE SEALING
- STOP INFILTRATION
- WATERPROOF COATING
- CORROSION PROTECTION



**MANHOLE COMPONENTS DETAIL**  
NOT TO SCALE

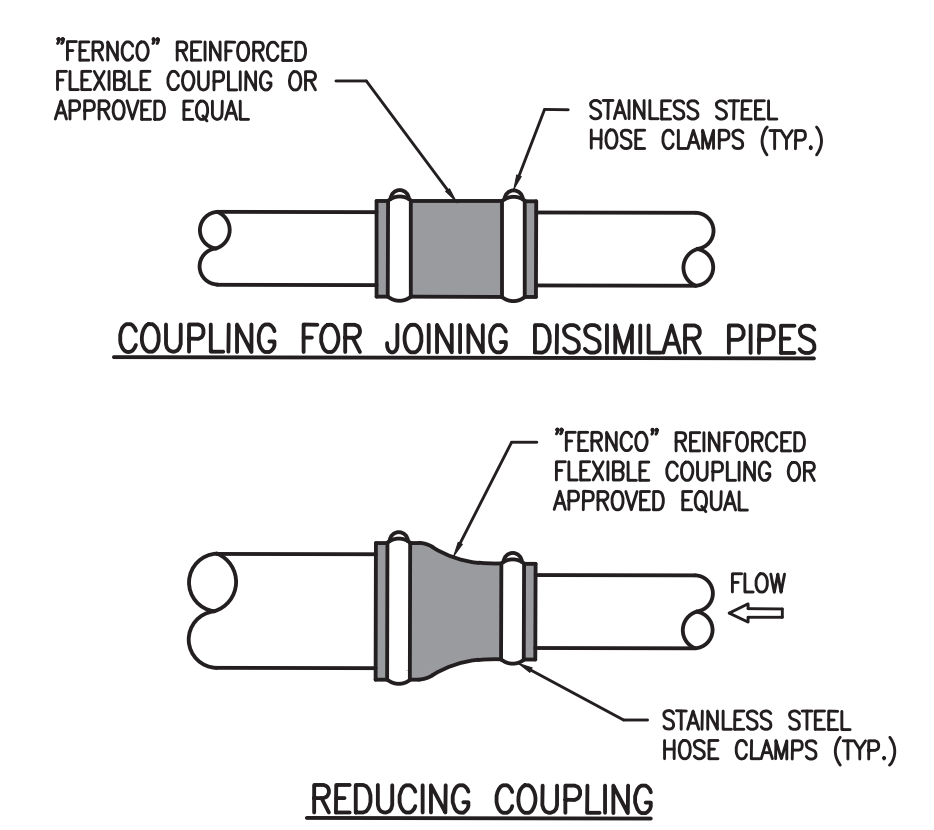


**MANHOLE GRADE RINGS DETAIL**  
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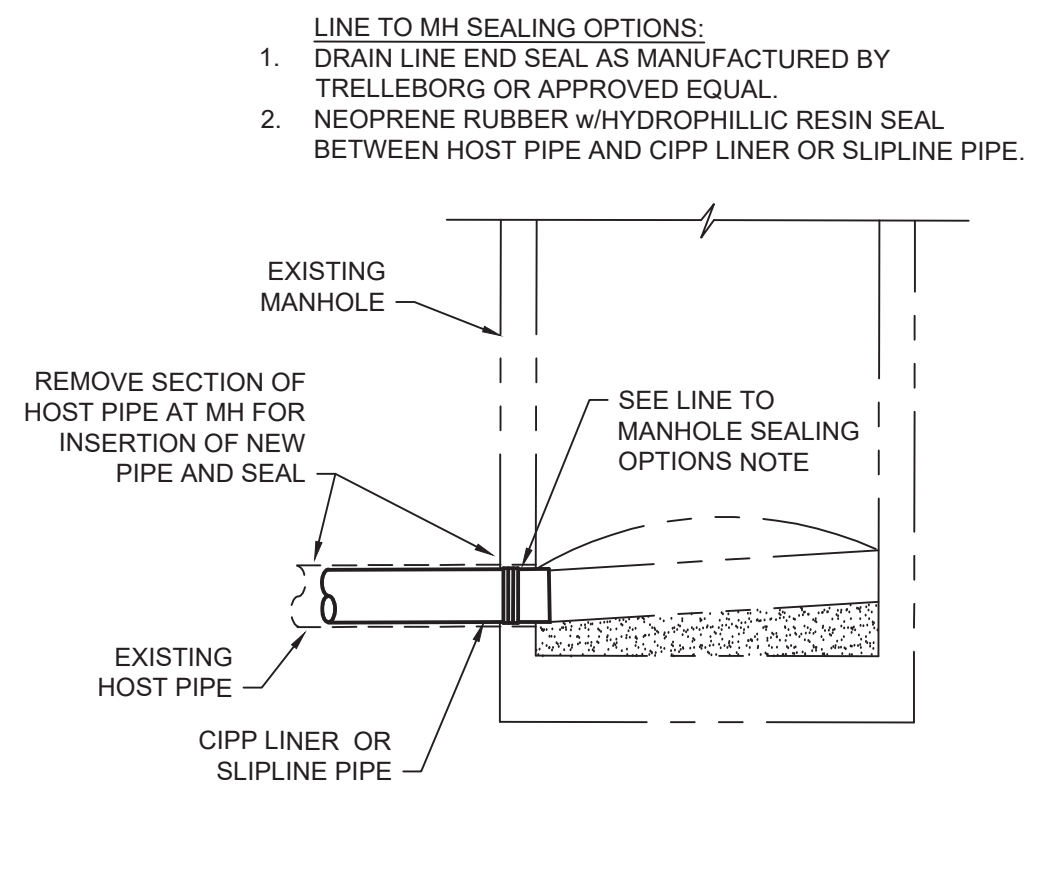


**REHAB THROUGH MANHOLE DETAIL**  
NOT TO SCALE

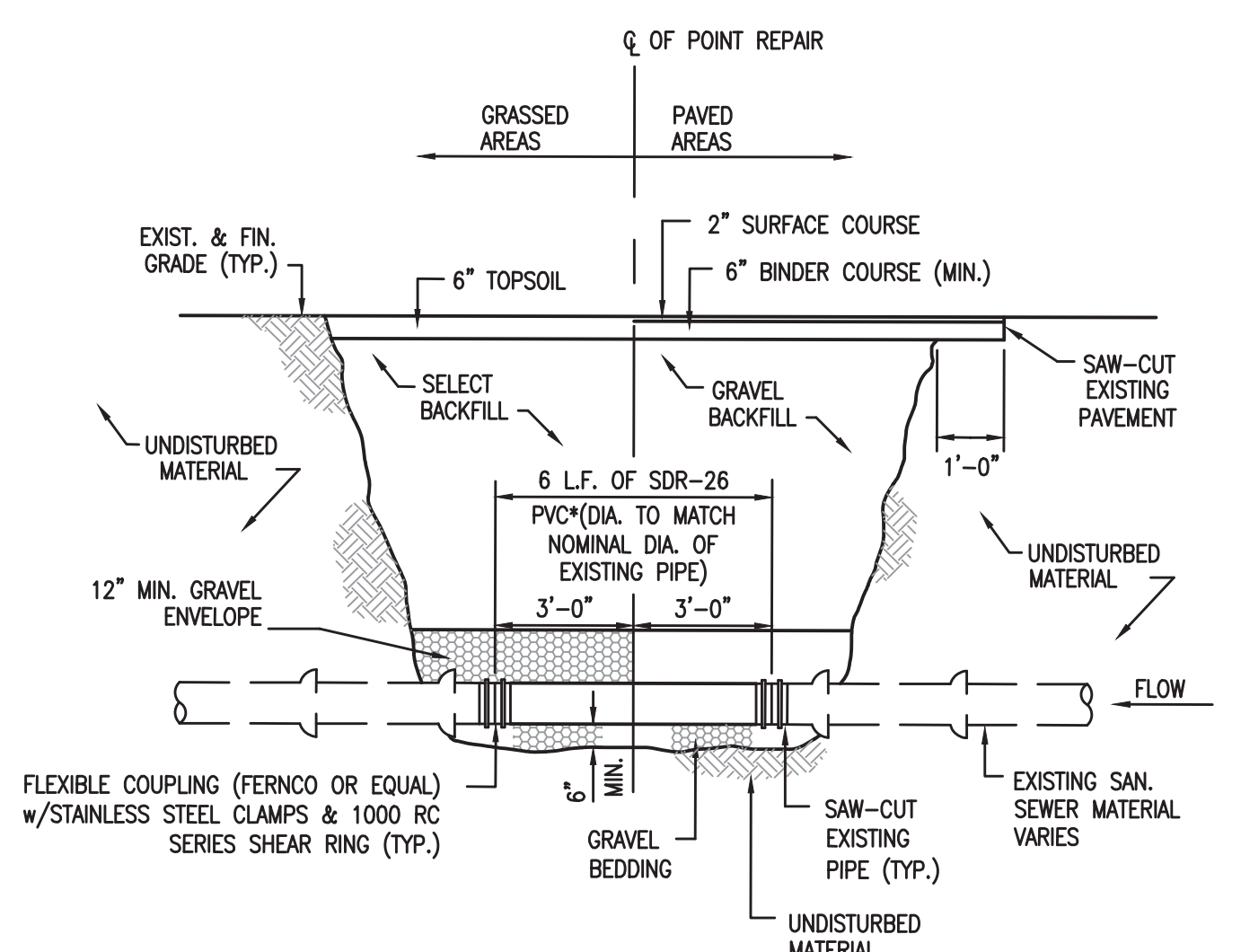
- NOTES:
- REPLACEMENT PIPE IS TO BE ONE PIECE.
  - INVERTS OF NEW PIPE TO MATCH EXISTING (TYP.).
  - CLASS 52 D.I.P. IS TO BE USED WHERE EXIST. PIPE IS D.I.P.
  - BEDDING FOR POINT REPAIR SHALL BE CRUSHED STONE.
  - 6" MIN. COMPACTED CRUSHED STONE UNDER PIPE TO A MIN. OF 12" OVER PIPE.
  - ALL MUD SHALL BE UNDERCUT FROM BELOW PIPE AND BACKFILLED WITH STONE.
  - UPPER 6" OF BACKFILL IN GRASSED AREAS IS TO BE TOPSOIL.
  - BACKFILL IN PAVED AREAS SHALL BE CRUSHED STONE.
  - PAVEMENT REPLACEMENT TO CONSIST OF 6" BINDER AND 2" SURFACE COURSE (MIN.).
  - USE EXCAVATED MATERIAL IN UNPAVED AREAS.



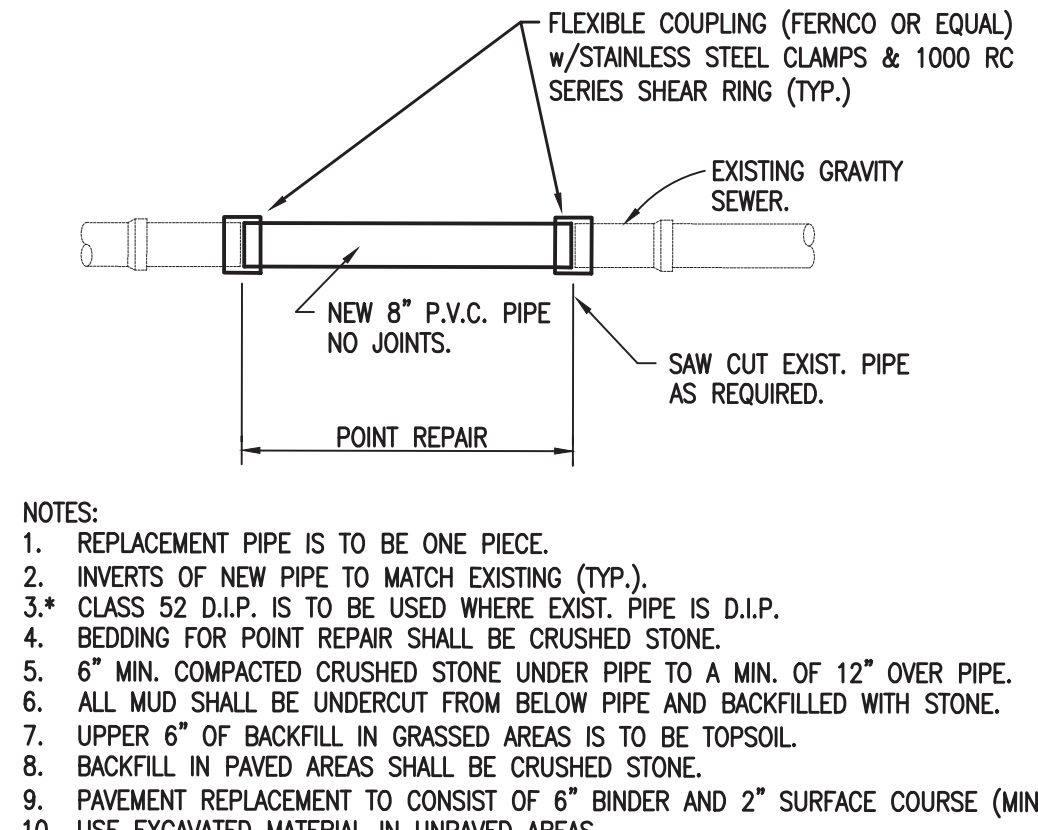
**FLEXIBLE COUPLING DETAIL**  
NOT TO SCALE



**END OF LINE AT MANHOLE CONNECTION DETAIL**  
NOT TO SCALE



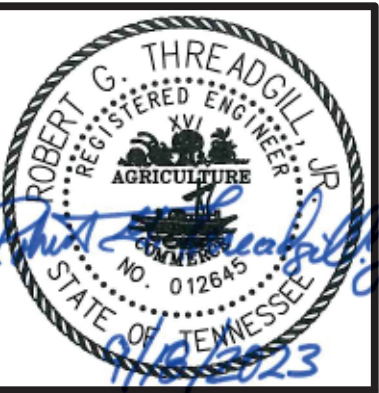
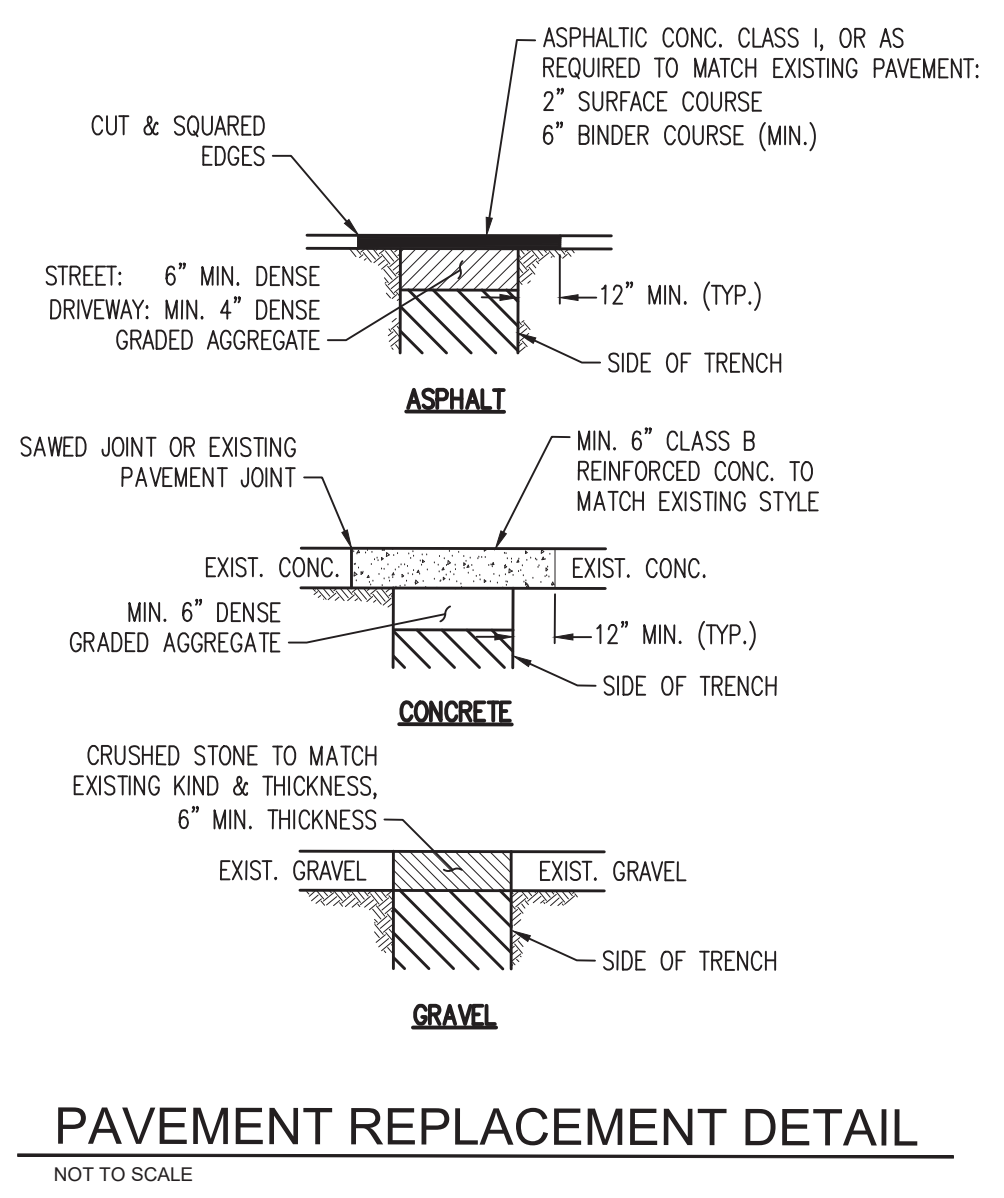
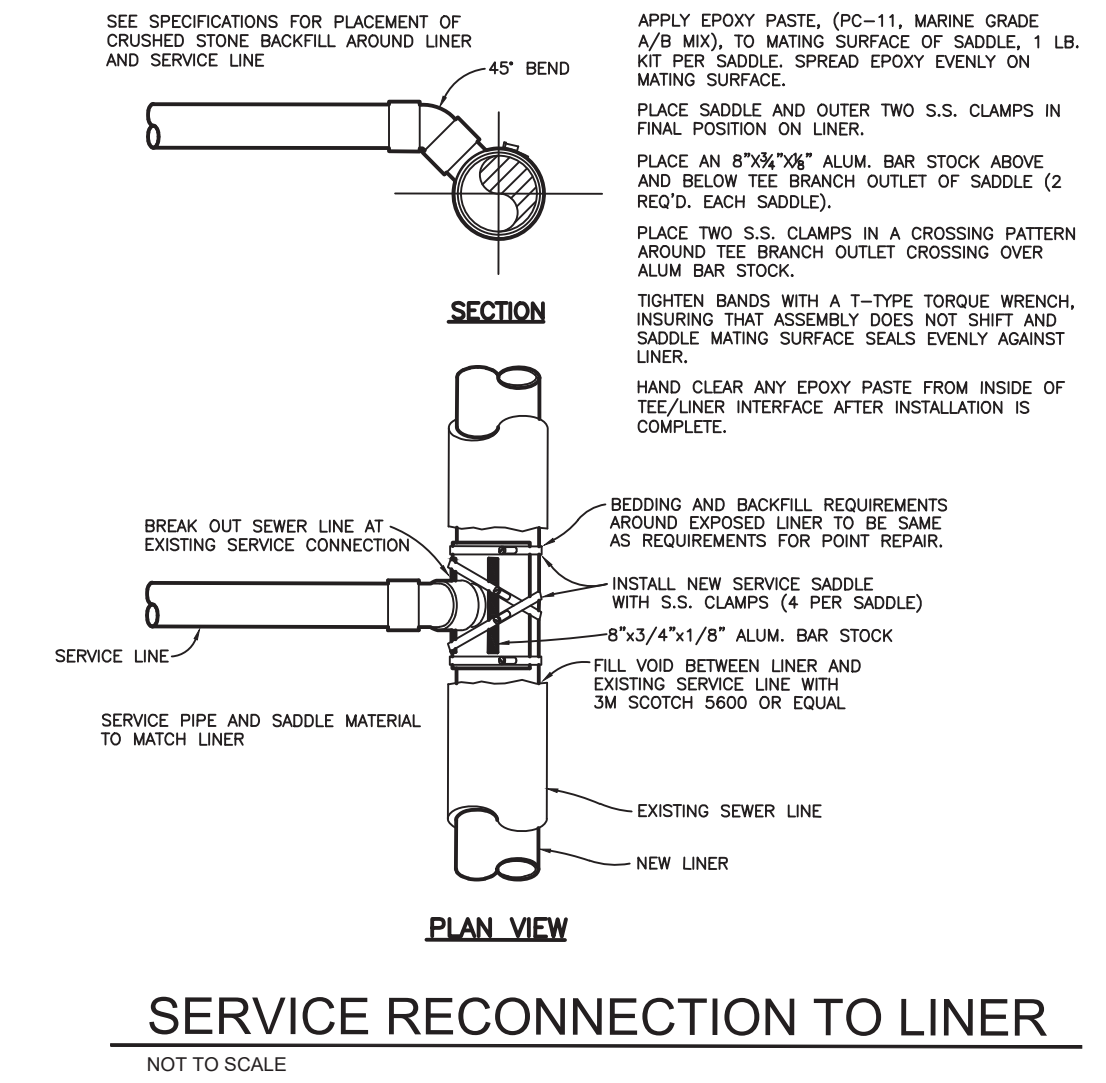
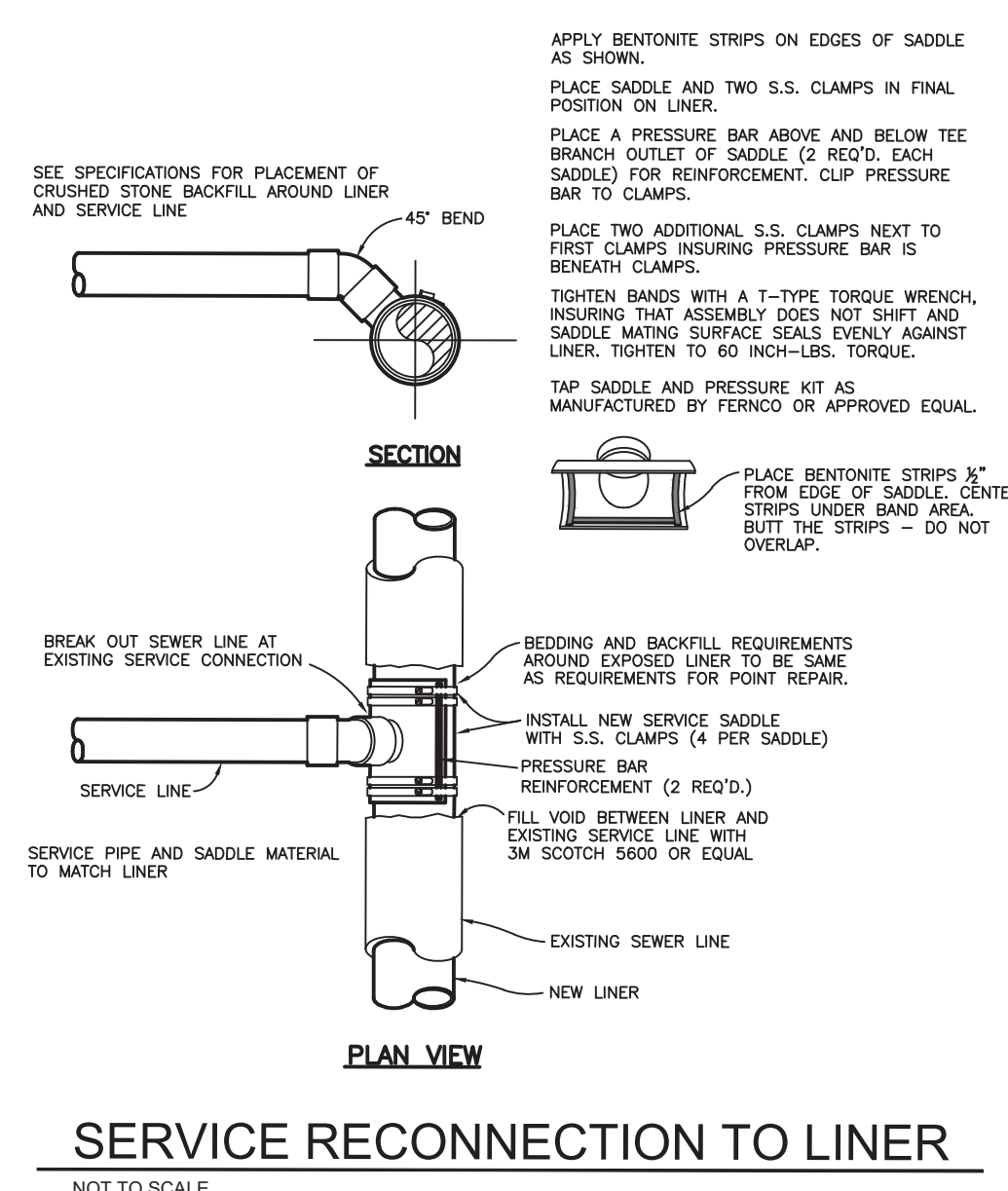
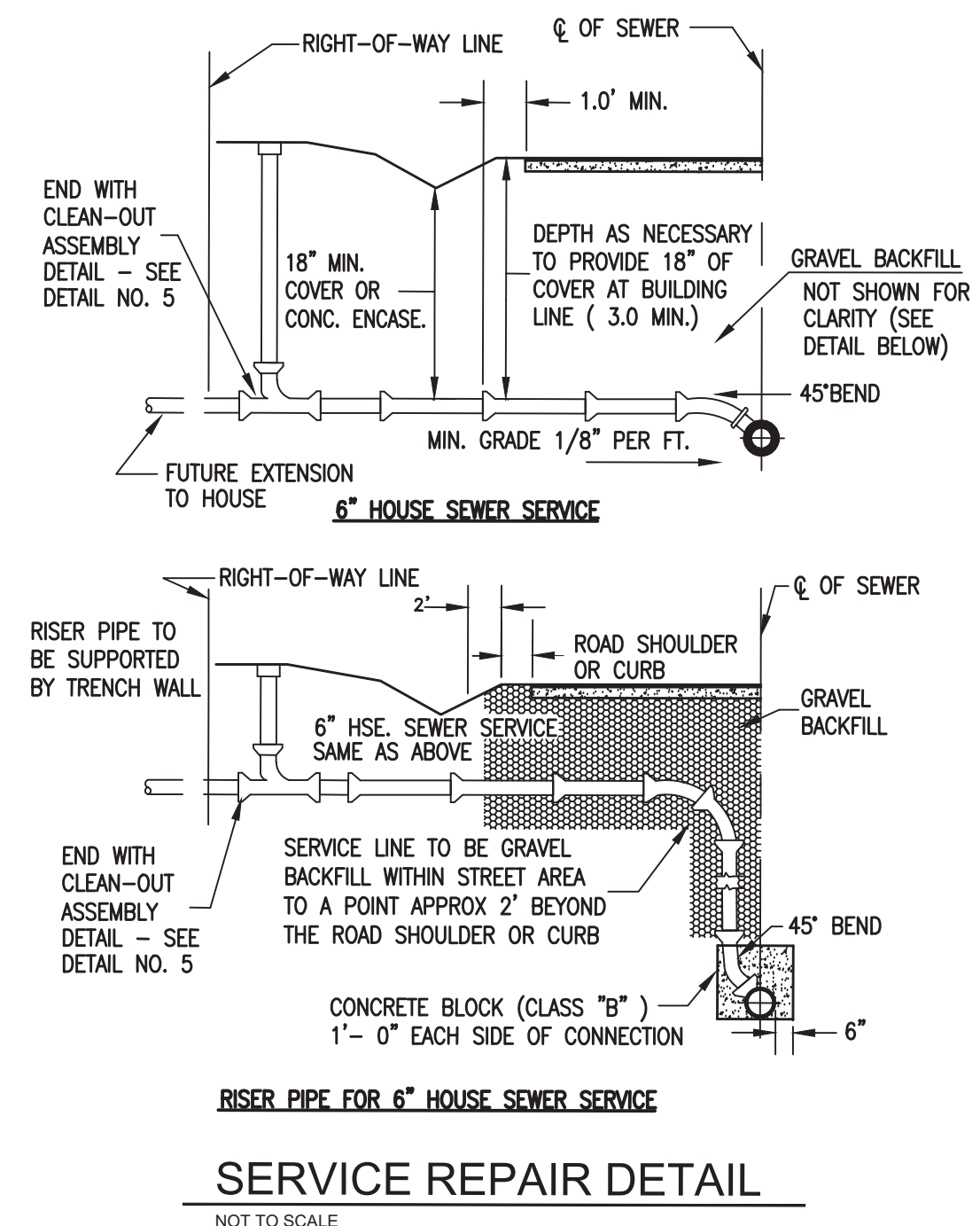
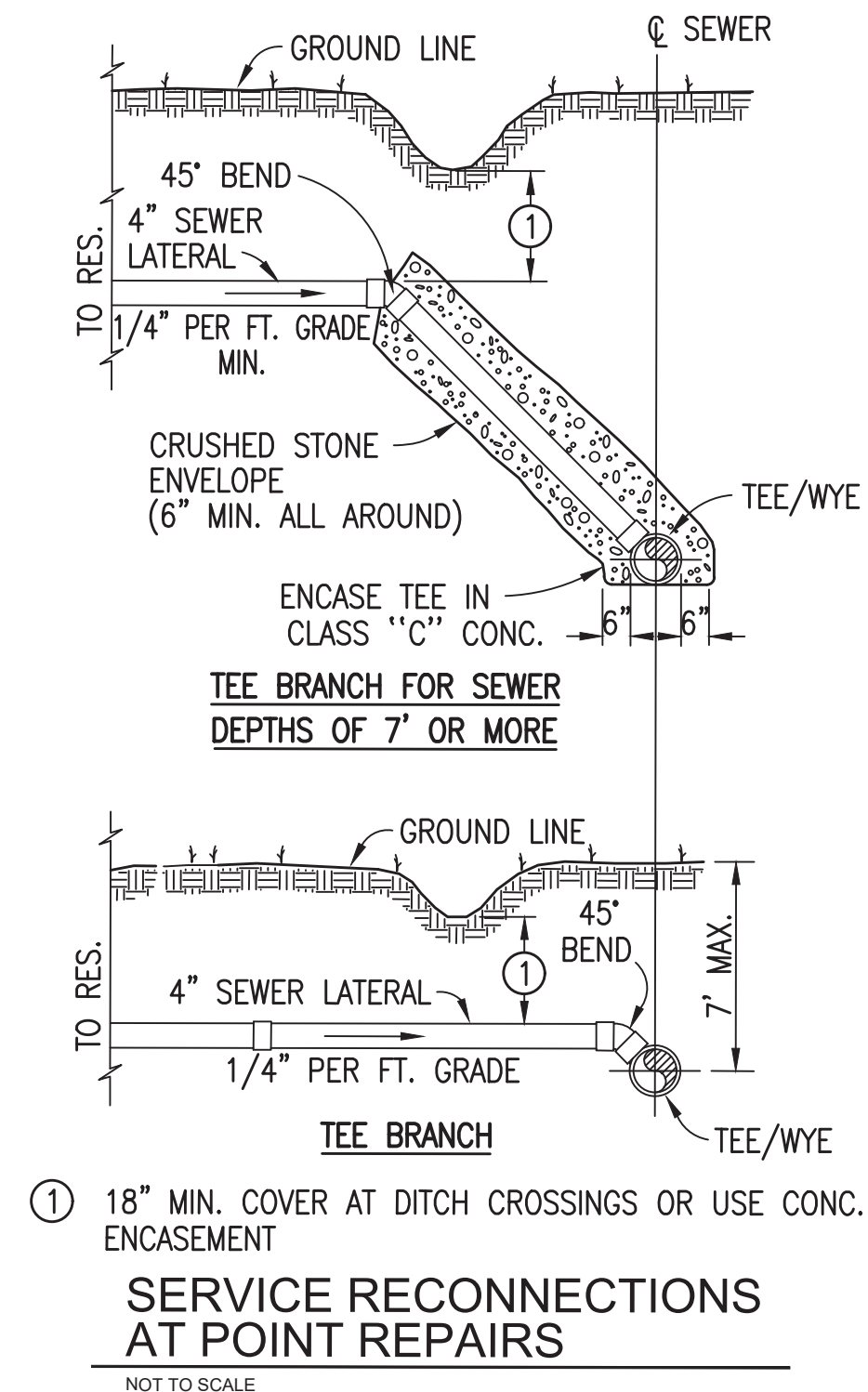
**POINT REPAIR DETAIL**  
NOT TO SCALE



**POINT REPAIR DETAIL**  
NOT TO SCALE

- NOTES:
- REPLACEMENT PIPE IS TO BE ONE PIECE.
  - INVERTS OF NEW PIPE TO MATCH EXISTING (TYP.).
  - CLASS 52 D.I.P. IS TO BE USED WHERE EXIST. PIPE IS D.I.P.
  - BEDDING FOR POINT REPAIR SHALL BE CRUSHED STONE.
  - 6" MIN. COMPACTED CRUSHED STONE UNDER PIPE TO A MIN. OF 12" OVER PIPE.
  - ALL MUD SHALL BE UNDERCUT FROM BELOW PIPE AND BACKFILLED WITH STONE.
  - UPPER 6" OF BACKFILL IN GRASSED AREAS IS TO BE TOPSOIL.
  - BACKFILL IN PAVED AREAS SHALL BE CRUSHED STONE.
  - PAVEMENT REPLACEMENT TO CONSIST OF 6" BINDER AND 2" SURFACE COURSE (MIN.).
  - USE EXCAVATED MATERIAL IN UNPAVED AREAS.





GRW PROJECT NO. 3849-13-B

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STANDARD REHAB DETAILS

2022 CDBG SEWER REHAB - CONTRACT B.

CITY OF MCKENZIE, TENNESSEE

REVISIONS	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
NO.			RGT	BHH	RGT	RGT

DATE: SEPTEMBER, 2023

SCALE: AS NOTED

SHEET NO. RD-07

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED



