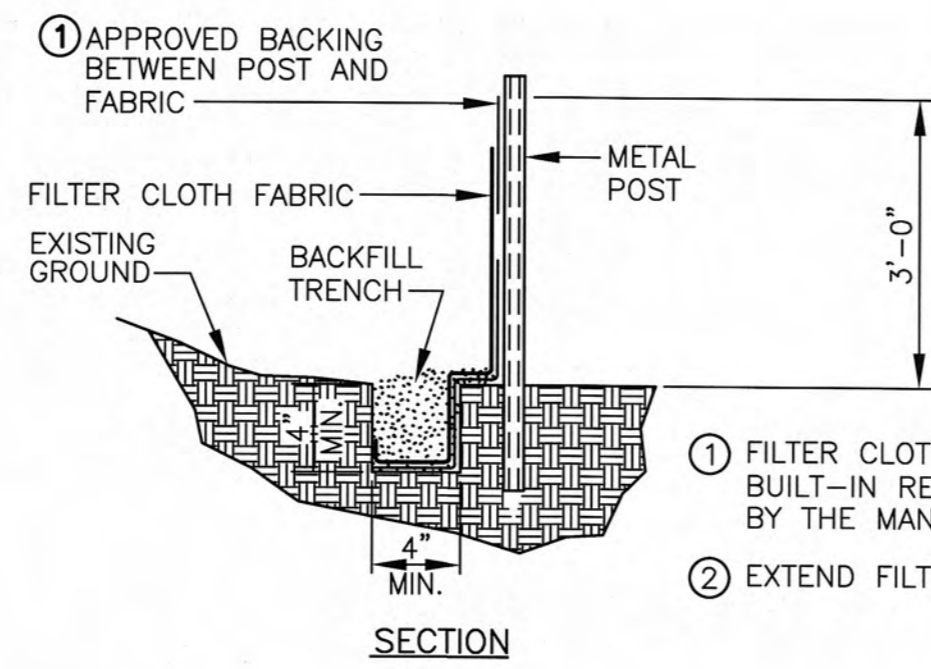


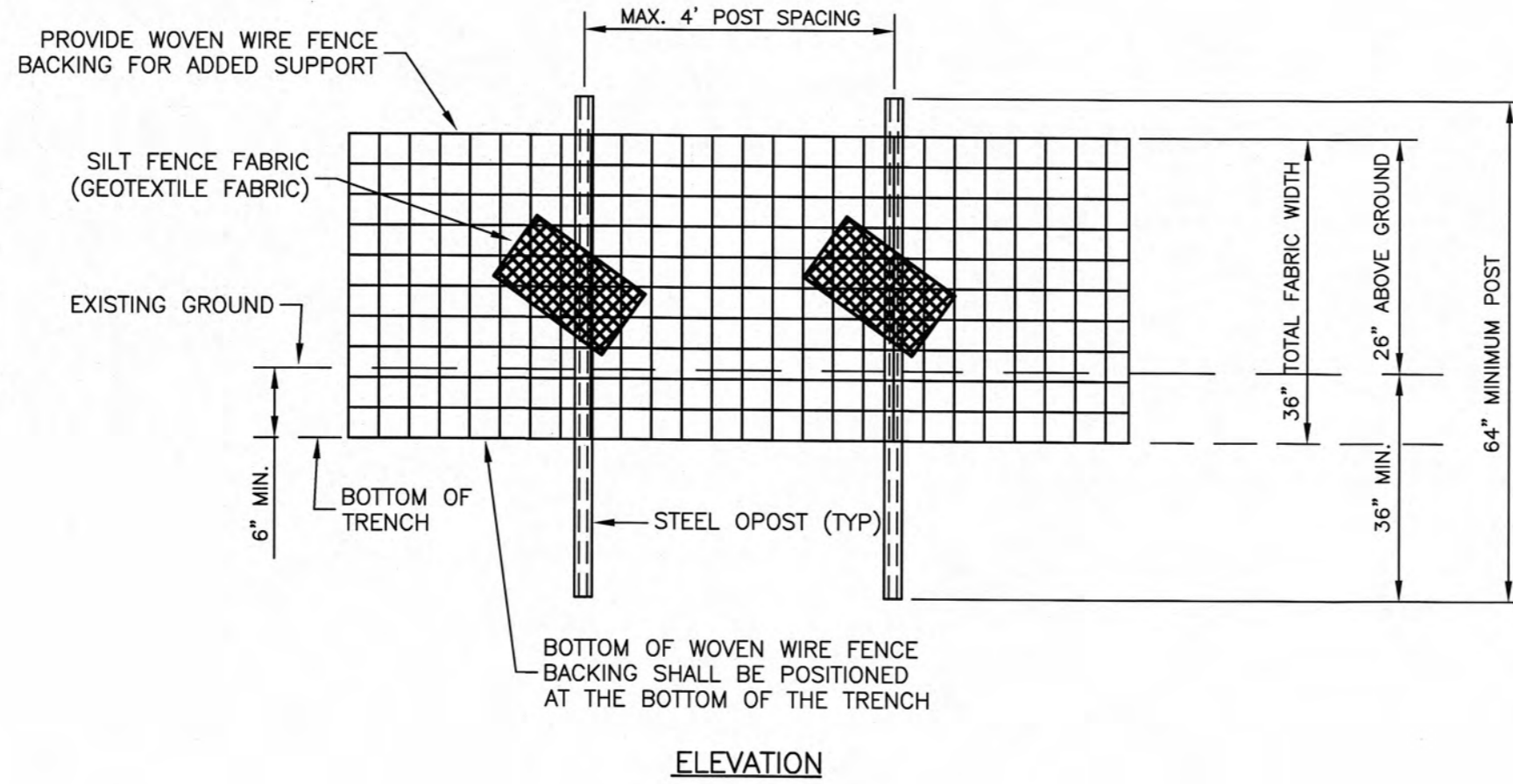
SILT FENCE SPECIFICATIONS

TYPE FENCE	A	B	C
TENSILE STRENGTH (LBS. MIN.) (1) (ASTM D-4632)	WARP - 120 FILL - 100	WARP - 120 FILL - 100	WARP - 260 FILL - 180
ELONGATION (% MAX.) (ASTM D-4632)	40	40	40
AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	#30	#30	#30
FLOW RATE (GAL./MIN./SQ. FT.) (GDT-87)	25	25	70
ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	80	80	80
BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	175	175	175
MINIMUM FABRIC WIDTH (INCHES)	36	22	36

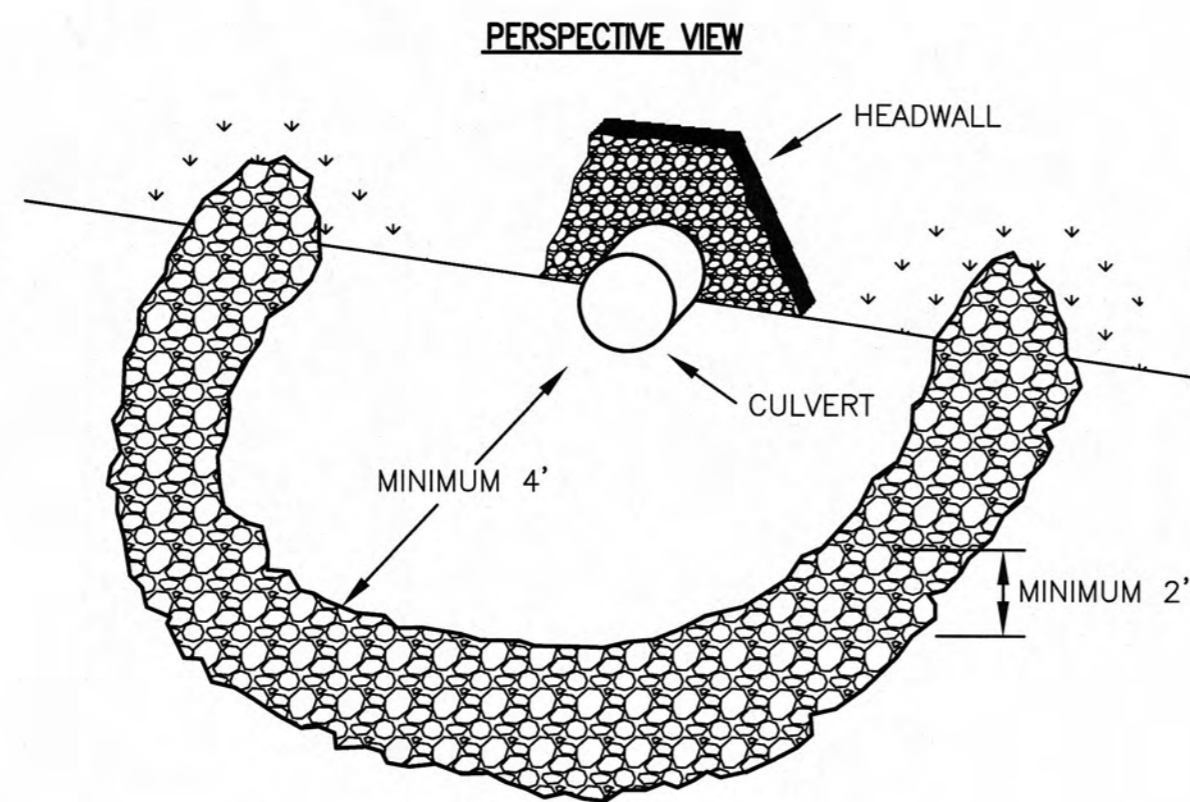
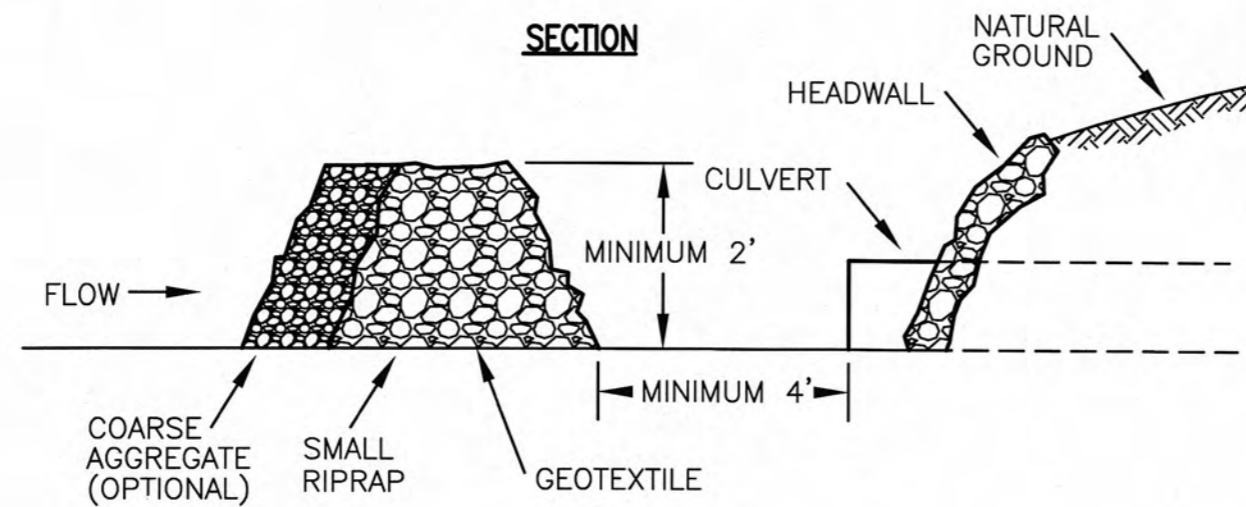
(1) MINIMUM ROLL AVERAGE OF FIVE SPECIMENS.
(2) PERCENT OF REQUIRED INITIAL MINIMUM TENSILE STRENGTH.



- ① FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE AS RECOMMENDED BY THE MANUF. TO SUPPORT THE FILTER CLOTH.
- ② EXTEND FILTER CLOTH AND BACKING INTO THE TRENCH.

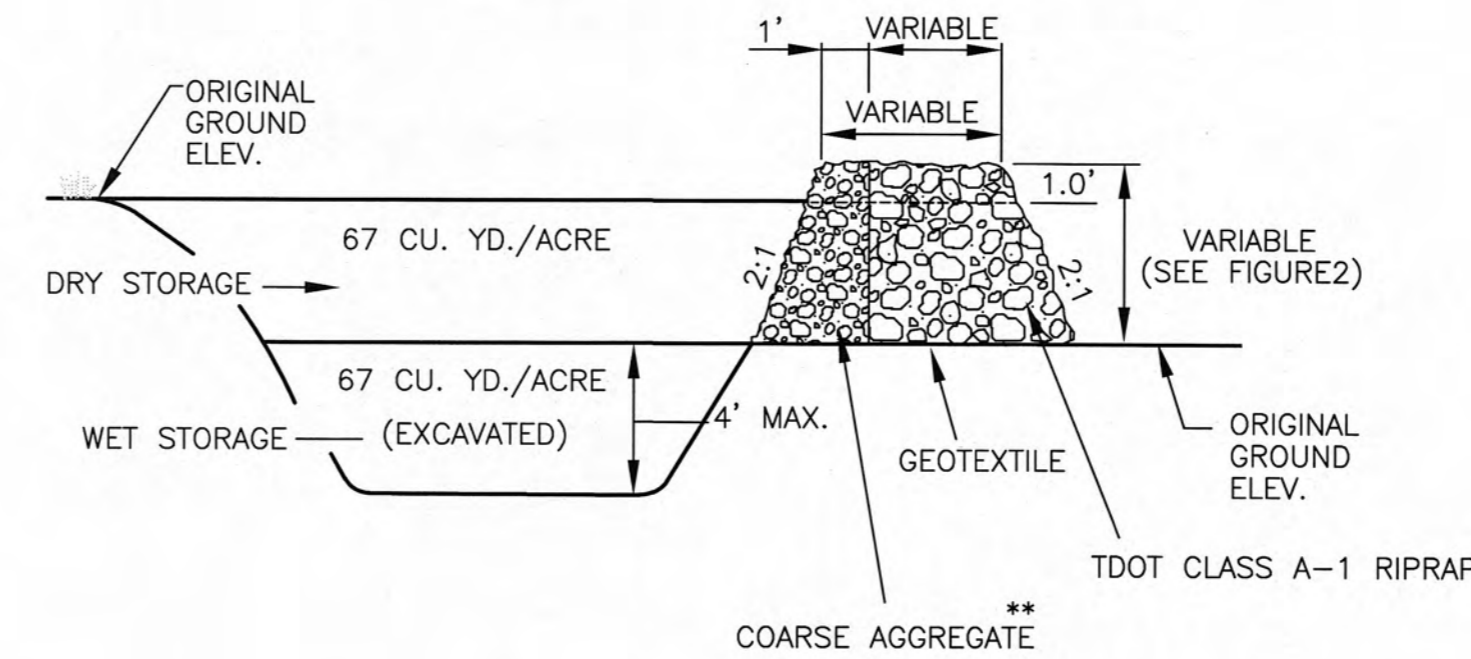
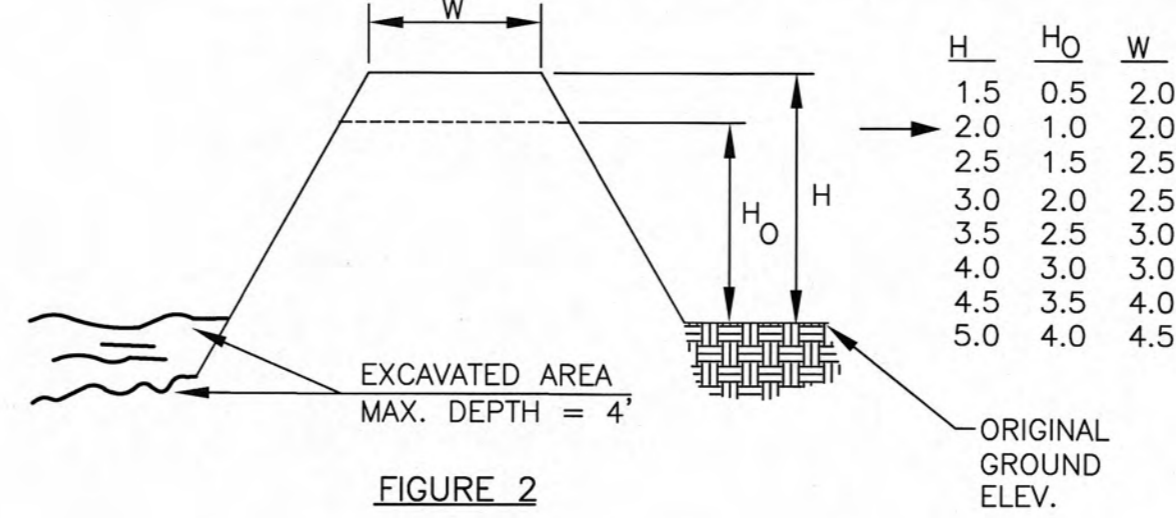


SILT FENCE DETAIL
SCALE: NTS

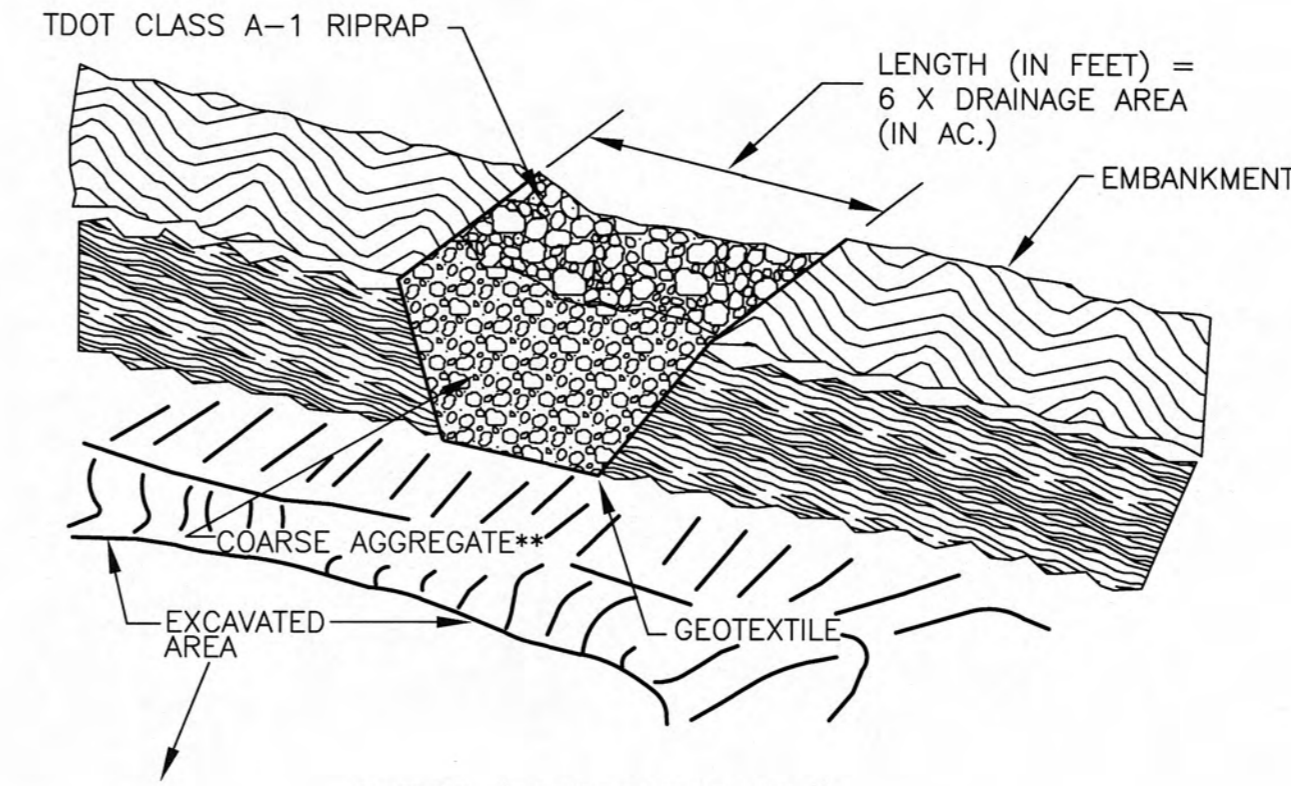


STONE FILTER RING
SCALE: NTS

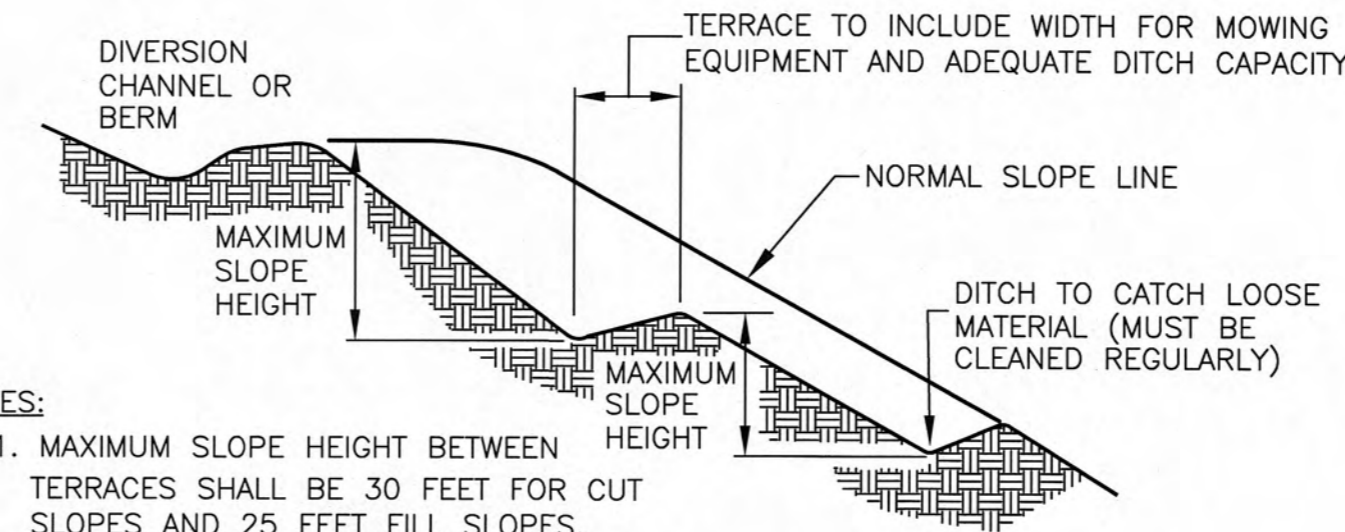
MINIMUM TOP WIDTH (W) REQUIRED FOR SEDIMENT TRAP EMBANKMENTS ACCORDING TO HEIGHT OF EMBANKMENT (FEET)



CROSS SECTION OF OUTLET
**COARSE AGGREGATE SHOULD BE TDOT #3, #357, OR #5

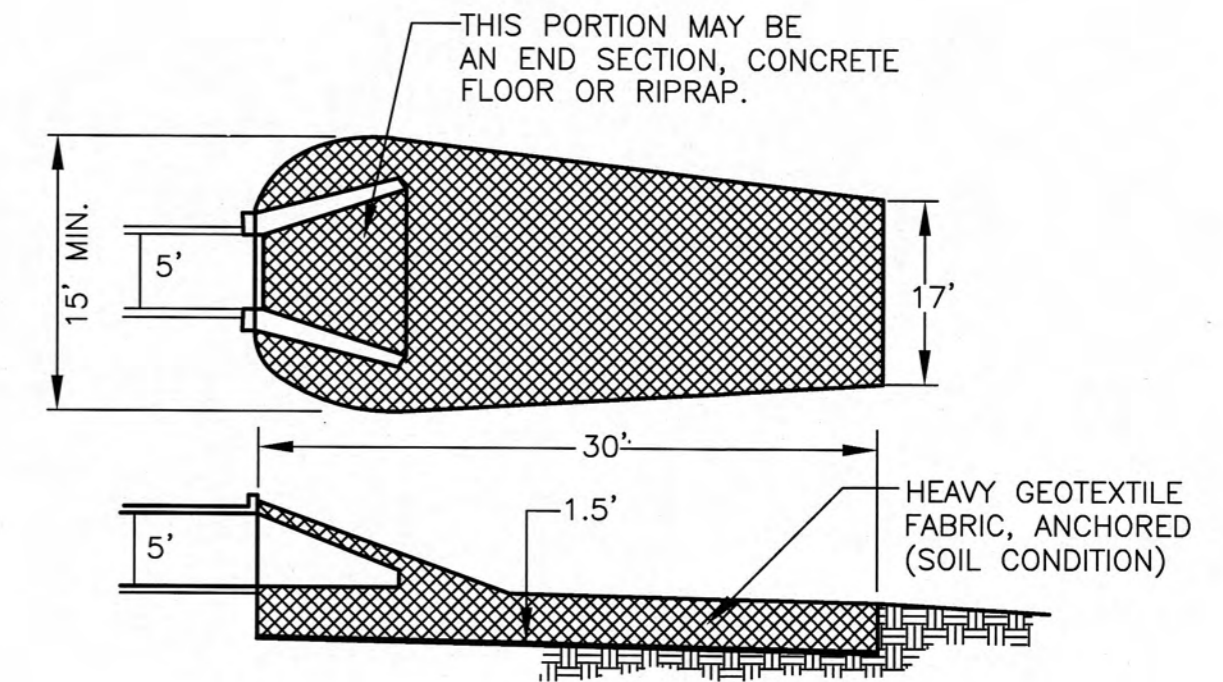


SEDIMENT TRAP DETAIL
SCALE: NTS

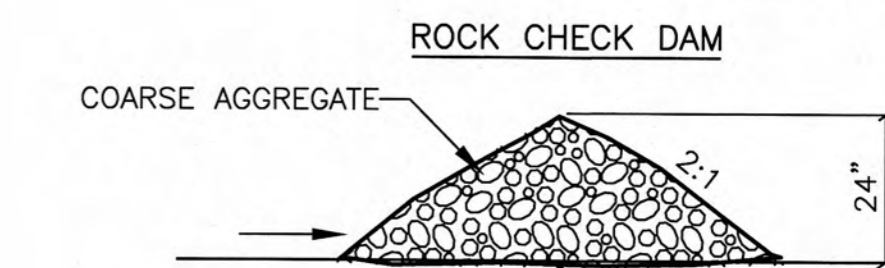
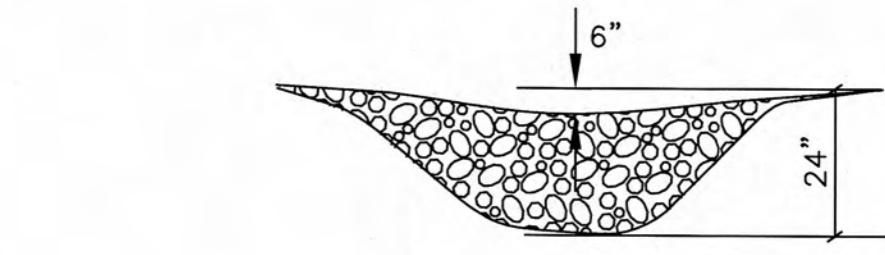


- NOTES:
- MAXIMUM SLOPE HEIGHT BETWEEN TERRACES SHALL BE 30 FEET FOR CUT SLOPES AND 25 FEET FILL SLOPES.
 - TERRACE WIDTH(S) SHOULD BE AT LEAST 6 FEET WIDE. DESIGN TERRACE DITCHES TO DRAIN AT NON-EROSIVE VELOCITIES.
 - TERRACED SLOPES SHOULD BE DESIGNED BY A PROFESSIONAL, BASED UPON ACTUAL SITE CONDITIONS.

TERRACED SLOPE DETAIL
SCALE: NTS



RIPRAP OUTLET PROTECTION DETAIL
SCALE: NTS

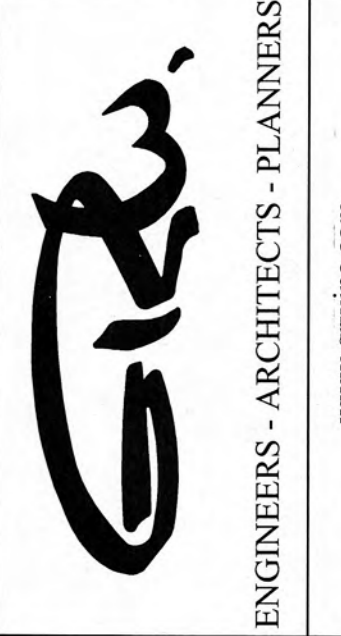


L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

CHECK DAM DETAILS
SCALE: NTS



GRW PROJECT NO. 3947-01
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STANDARD EROSION CONTROL DETAILS
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

DESIGNED BY	RG T
DRAWN BY	DM
REVIEWED BY	RG T
APPROVED BY	RG T

NO.	DATE	DESCRIPTION

DATE: DECEMBER 2012
SCALE: NONE
SHEET NO.

C-0-503

PLOTTED BY: DMM/loris PRINTED: 3/18/2013 @ 1:51 PM FILE NAME: I:\3947-Harriman Utility\01-SRF Sewer Rehab\Working Drawings\Design Drawings\Con S12-02_Rehab14_3947-01-C-0-503.dwg

PLOTTED BY: DMMorris

PRINTED: 3/18/2013 @ 2:54PM

FILE NAME: I:\3947-Harriman Utility\01-SRF Sewer Rehab\Working Drawings\Design Drawings\Con S12-02_Rehab110_3947-01-C-0-601.dwg

Item No.	Pipe Segment Location	Upstream MH	Downstream MH	Segment Length	Pipe Diameter	CD No.	Date of Inspection	Type of Pipe	Problems Seen	Services on Line Segment	Recommended Rehabilitation
4	Queen	E-29	E-28	325	6	1-1	06/07/2012	Clay	Pipe is full of roots and cracks	0	PB
5	Queen	E-30	E-28	280	6	1-1	06/07/2012	PVC/Clay	Pipe is full of roots and cracks	0	PB
6	Margrave	E-31	E-30	273	6	1-1	06/07/2012	Clay	Roots @ 261 ft & 198.7 ft from E-31; Pipe broken @ 151.4 ft from E-31; Joint offset @ 4.6 ft from E-31	3 active; 3 capped	PB
7	Margrave	E-32	E-31	160	6	1-1	06/07/2012	Clay	Roots @ joints @ 12-50 ft from E-32	5	CIPP
8	Unaka	E-52	E-51	160	6	1-1	06/05/2012	Clay	Debris (wood, metal?) entering from lateral @ 94 ft from E-52; Roots at every joint & lateral connection; Broken pipe at 30 ft from E-51	4	PB
8a	Siluria	E-51	E-50	80	6			Clay			PB
8b	Crescent Ave	E-50	E-43	160	8			Clay			CIPP
9	Unaka	E-53	E-52	160	6	1-1	06/05/2012	Clay	Severe roots @ 41.5 ft, 51.3 ft & 53.4 ft from E-53; Crack in pipe @ 0 ft from E-52; Severe broken pipe @ 41.6 ft from E-52 - might need PR before CIPP	1 intruding	PB
10	Margrave	E-54	E-53	197	6	1-1	06/05/2012	Clay	Pipe broken @ 24.5 ft from E-53; Crack in pipe @ 42.4 ft from E-53; Collapsed pipe @ 82.2 ft from E-53; Broken pipe @ 84 ft from E-53; Pipe broken @ 60.5 & 73.8 ft from E-54; Roots @ multiple joints; Probable PR @ 74 ft from E-54	1	PB
11	Margrave	E-56	E-54	477.5	6	1-1	06/05/2012	Clay	Broken pipe @ 71.7 ft from E-56; Severe issues with pipe		PB
15	Siluria	E-72	E-71	290	6	1-1	06/04/2012	Clay	Offset joint @ 109.1 ft from E-71; Broken pipe @ 130.9 ft from E-71; Roots @ multiple joints; PR needed @ 130 ft from E-71	1	PB
16	Virginia @ Unaka	E-86	E-85	250	6	1-1	06/04/2012	Clay	Pipe broken @ 62.1 ft from E-85; Offset joint @ 44.9 & 59.2 ft from E-85; Roots @ multiple joints; PR needed @ 62 ft from E-85	2	PB
20	Margrave & Chilhowee	E-76	E-74	372.2	6	1-1	06/01/2012	Clay	Severe roots at joints; Cracked pipe @ 60.8 ft from E-76; Severe sagging in pipe; Multiple offset joints; Broken pipe @ 60 ft from E-77	4 active; 2 capped	PB
22	Short	E-77A	E-77	130	6	1-1	06/01/2012	Clay	Severe sagging; Multiple offset joints; Roots at multiple joints; Broken pipe @ 37.1 ft from E-77	2	Dig
24	Short	E-77	E-76	105	6	1-1	05/31/2012	Clay	Severe sagging; Multiple offset joints; Roots at multiple joints; Broken pipe @ 37.1 ft from E-77	1	Dig
25	Margrave @ Henderson	E-81	E-80	188	6	1-1	05/30/2012	Clay	Crack in pipe @ 8 ft, 9.7 ft, 48.2 ft (x2), 68.7 ft & 179.4 ft from E-81	2	PB
28	Margrave	E-?	E-56	86	6	1-2	06/05/2012	Clay	Roots at most joints	2	PB
29	Queen	E-36	E-35	162.3	6	2-1	08/01/2012	Clay	Offset joint @ 11.8 ft from E-36; Crack in pipe @ 3.5 ft, 19.8 ft, 32 ft, 33 ft, 60 ft, 76.5 ft & 138 ft from E-36; Pipe broken @ 100.5 ft from E-36; Multiple sags	1	PB
30	Devonia	E-36A	E-36	34.4	6	2-1	08/01/2012	Clay	Crack in pipe @ 7.7 ft, 11.7 ft (x2), & 15.7 ft from E-36A; Offset joint @ 19.5 ft from E-36A	0	PB
31	Devonia	E-37	E-36A	56.6	6	2-1	08/01/2012	Clay	Crack in pipe @ 40.5 ft & 44.4 ft from E-37; Offset joint @ 48.5 ft from E-37	0	PB
32	Devonia	E-37B	E-37	27	6	2-1	08/01/2012	Clay	Roots @ joint @ 4 ft from E-37B; Crack in pipe @ 18.1 ft from E-37B; Offset joint @ 21.8 ft from E-37B	0	PB
33	Margrave	E-21	E-20	325	6		02/13/2013				Dig
34	Margrave	E-20	E-19	260	6		02/13/2013				Dig
35	Margrave	E-19	E-18	450	6		02/13/2013				
36	Margrave	E-18	E-17	140	6		02/13/2013				Dig
38	Carter	E-25	E-24	311	6	2-1	07/31/2012	Clay	Severe root problems through pipe	2	PB
39	Carter	E-24	E-11	210	6	2-1	07/31/2012	Clay	Severe roots, cracking & broken pipe		PB
46	Chilhowee	E-89	E-88	224	8	3-1	09/21/2012	RCP	Broken pipe @ 129.2 ft from E-89; Crack in pipe @ 59.7 ft, 67.4 ft & 132.2 ft from E-89; Offset joint @ 21.8 ft & 37.2 ft from E-89	3	PB
48	Chilhowee	E-90	E-89	238.5	8	3-1	09/19/2012	RCP	Offset joint @ 31.7 ft & 52.7 ft from E-90; Infiltration @ 61.7 ft, 67.8 ft, 91.3 ft, 97.8 ft & 114.4 ft from E-90	2	PB
57	Chilhowee	E-94	E-90	320	8	3-1	09/10/2012	RCP			PB
58	Chilhowee	E-95	E-94	291	8	3-1	09/10/2012	RCP	Collapsed pipe @ 5 ft from E-95		PB
68	David Webb Park	I-17	I-16	275.3	18	3-1	09/13/2012	Clay	Roots in pipe @ 105.9 ft & 110.6 ft from I-16 & multiple other joints; Infiltration @ 240.4 ft & 257.0 ft from I-16		CIPP
69	David Webb Park	I-16	I-125	45	18			Clay			CIPP
70		I-125	I-124	315	18			Clay			CIPP
74	Cherry St.	X-94	X-93	400	6		02/13/2013				PB
75	Cherry St.	X-93	X-92	230	6		02/13/2013				Dig
76	Cherry St.	X-92	X-91	250	6		02/13/2013				Dig
77	Cherry St.	X-91	X-?	250	4		02/13/2013				Dig
78	Cardiff	A-04A	A-04	172	8		02/13/2013				CIPP
79	Cardiff	A-04	A-03	210	8		02/13/2013				CIPP



GRW PROJECT NO. 3947-01

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SEWER LINE REHABILITATION
TABULATION OF WORK
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

DESIGNED BY	RG
DRAWN BY	DM
REVIEWED BY	RG
APPROVED BY	RG

NO.	DATE	DESCRIPTION

DATE: DECEMBER 2012
SCALE: NONE
SHEET NO.:

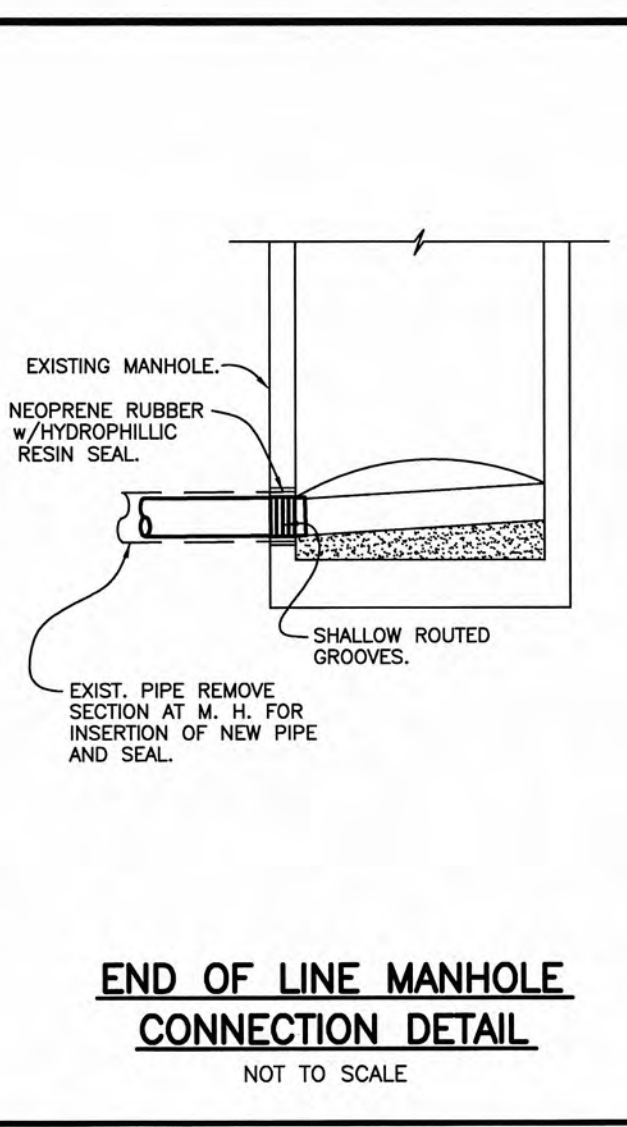
C-0-601

CONTRACT DRAWINGS

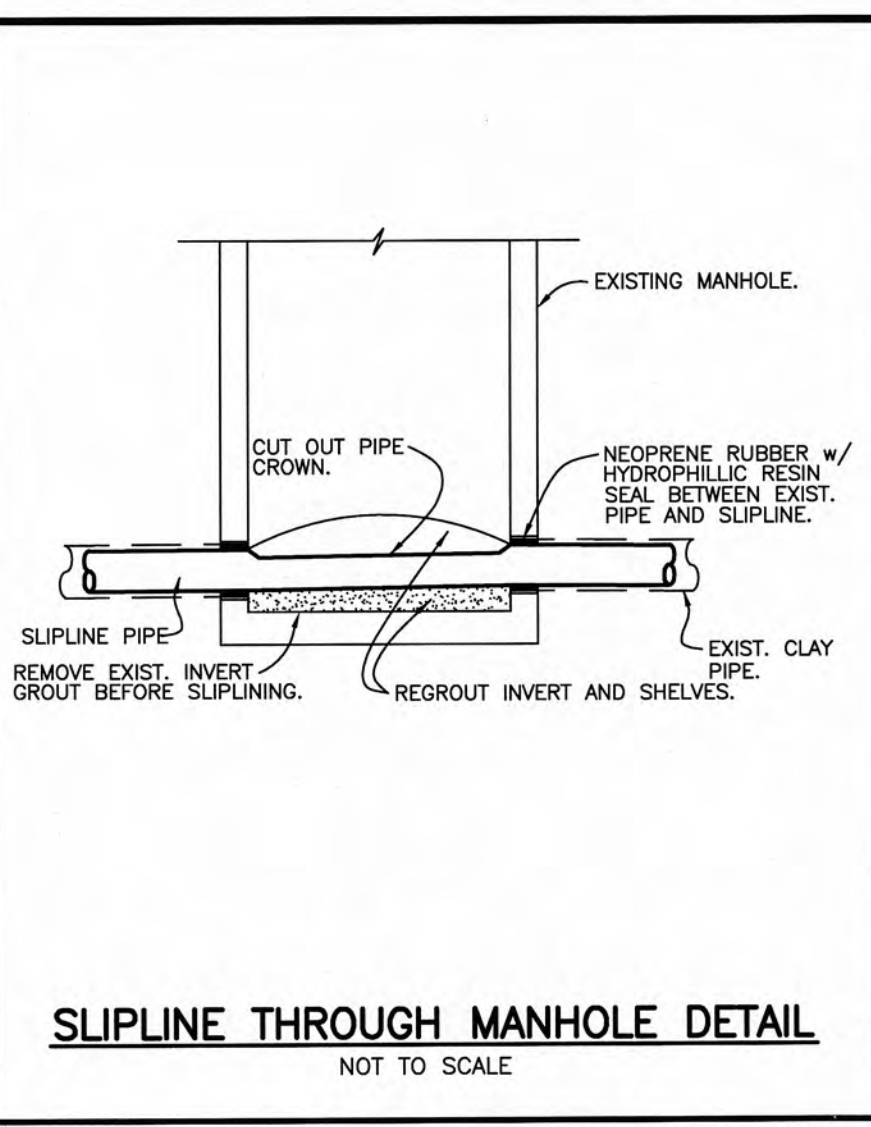
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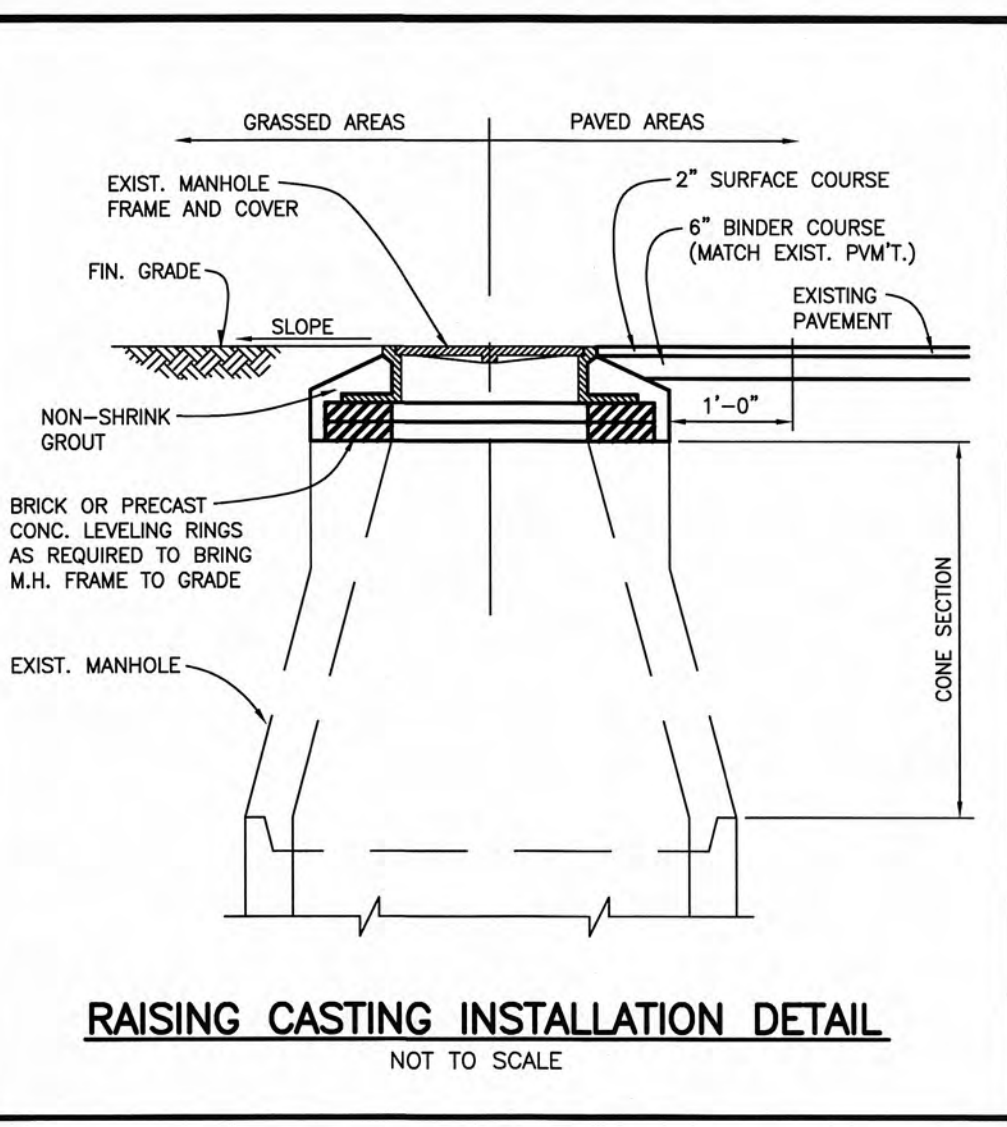
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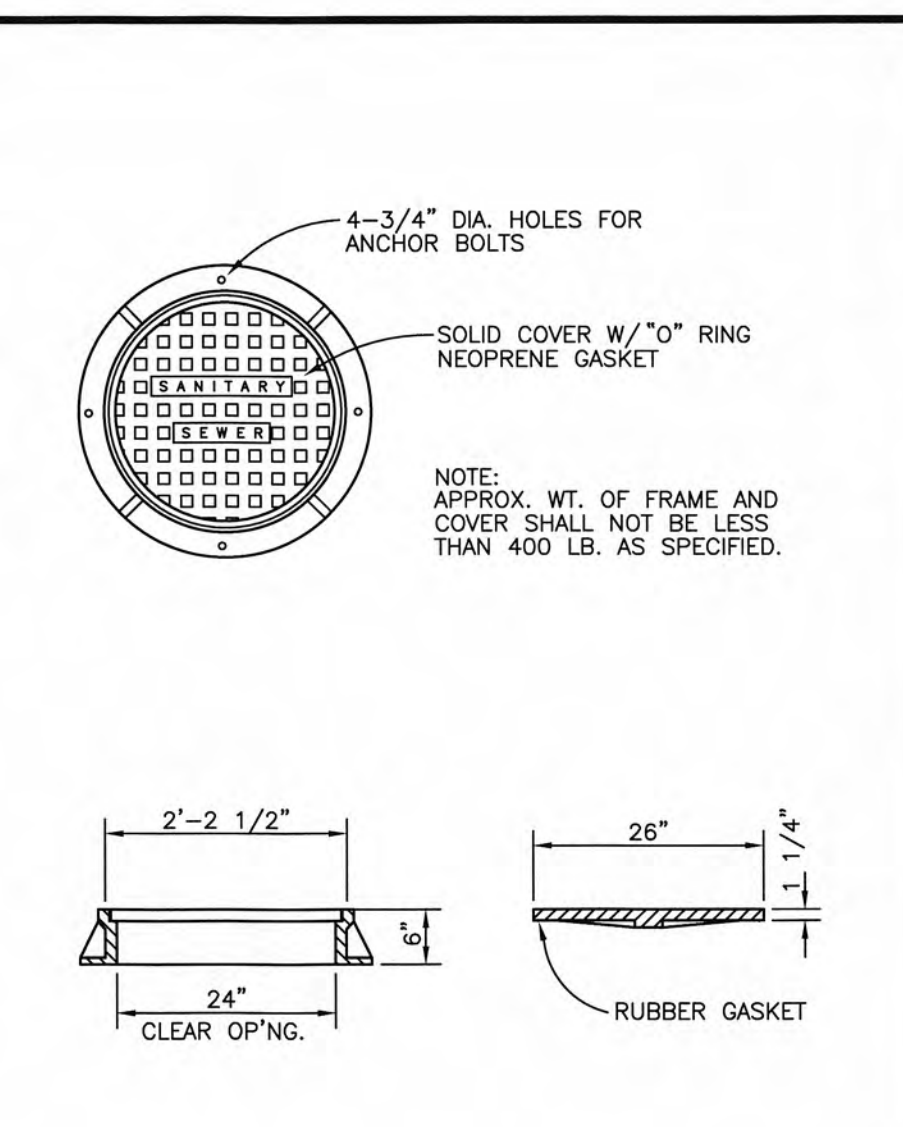
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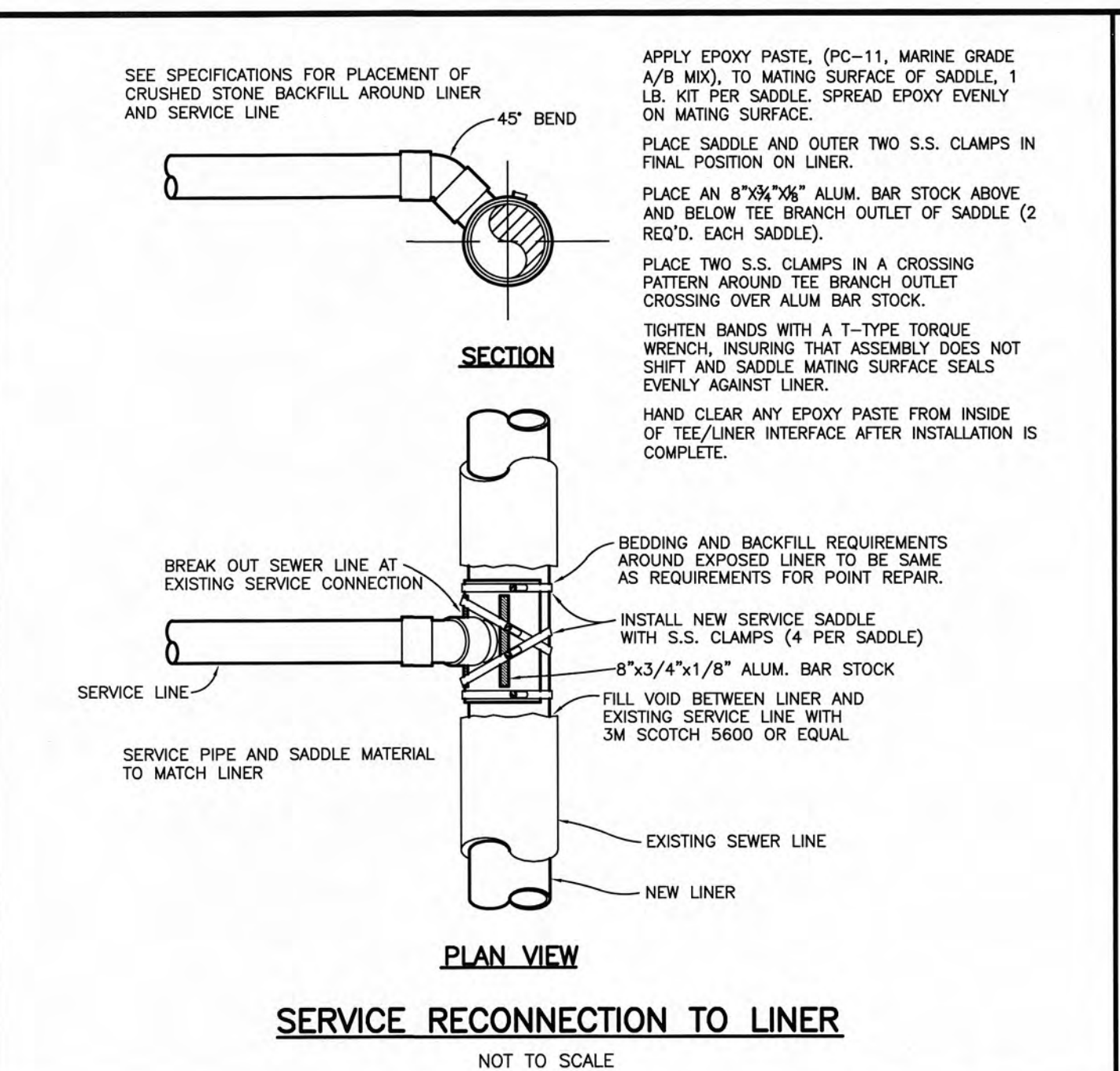
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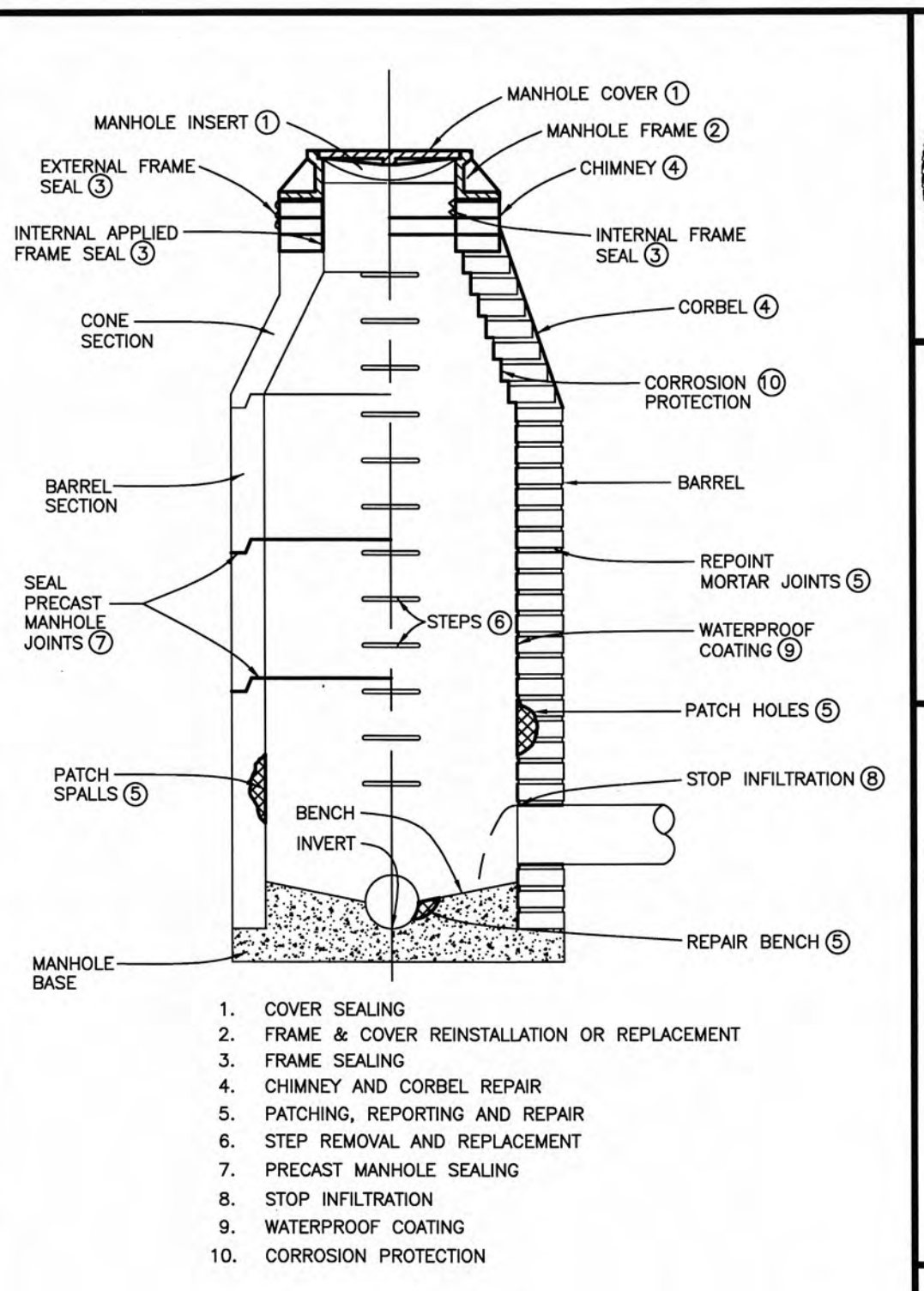
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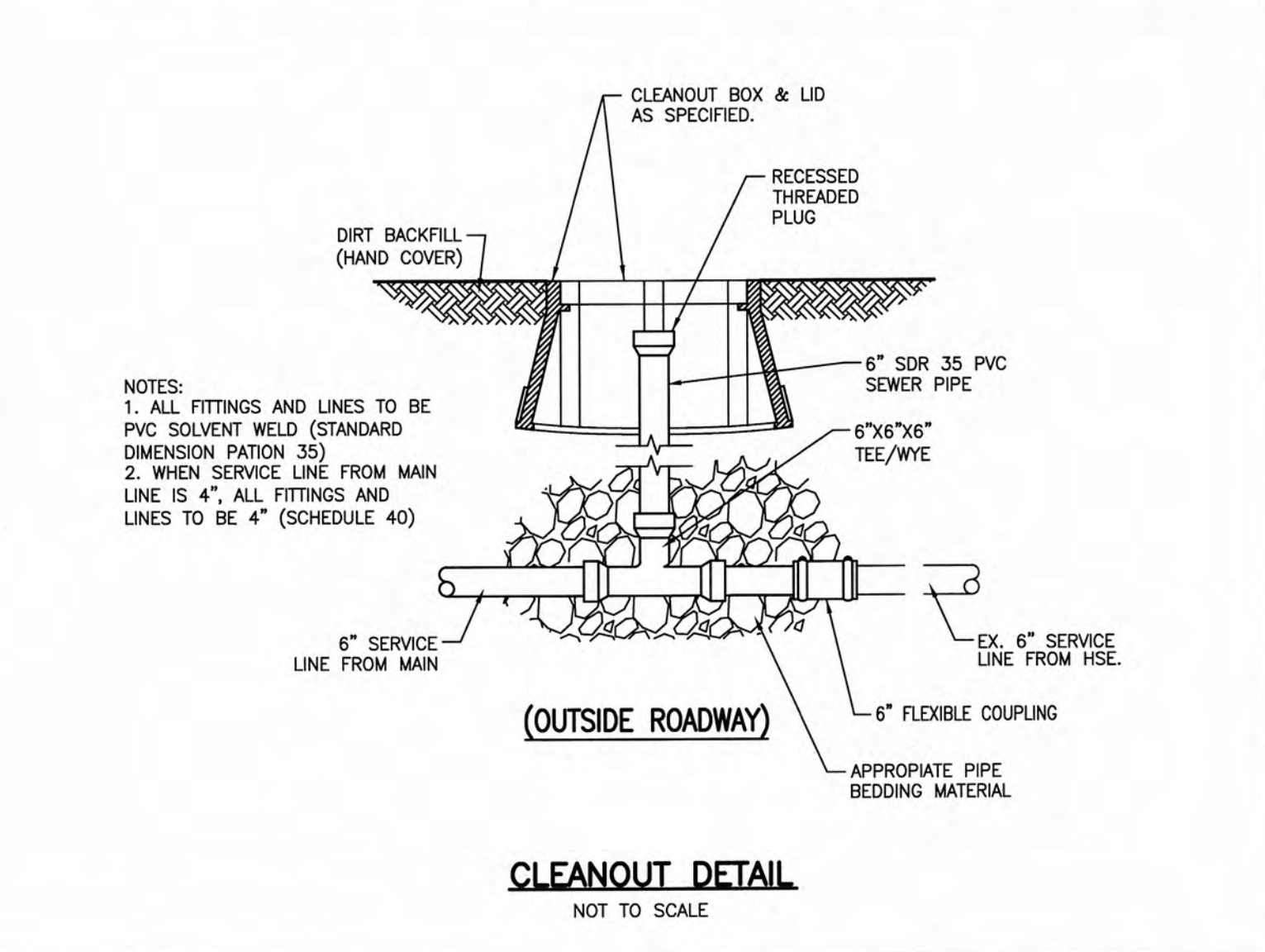
STANDARD MANHOLE FRAME & COVER
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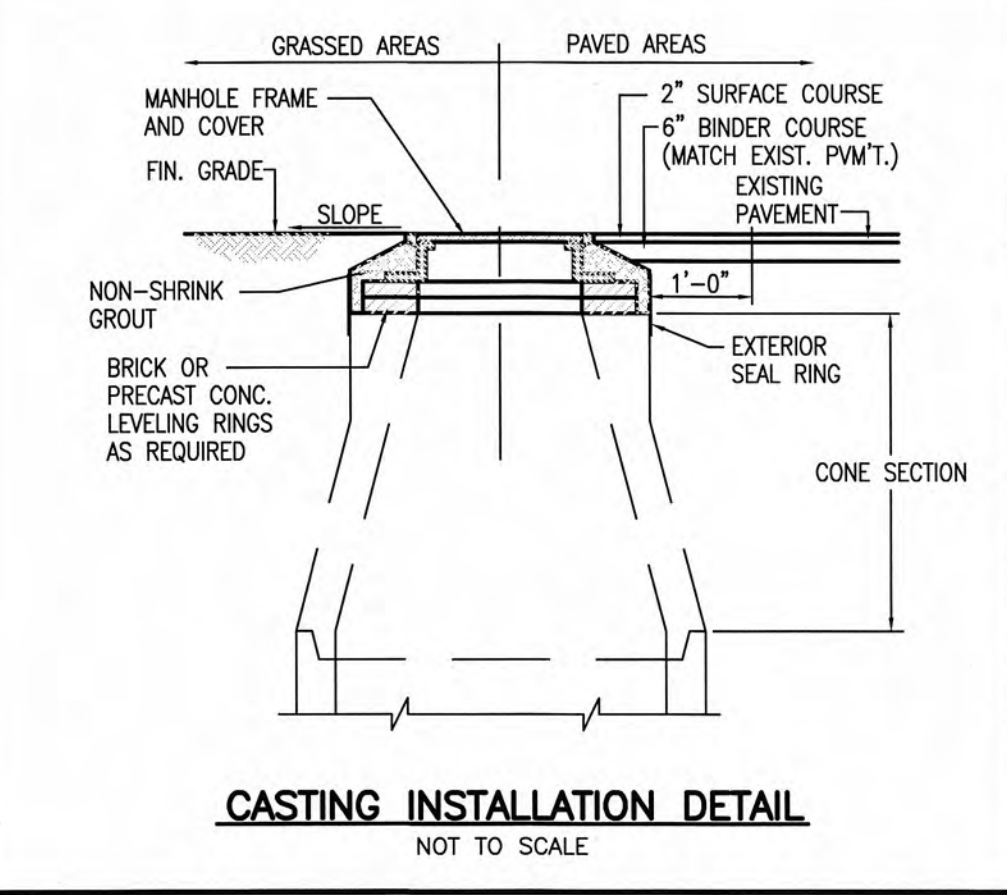
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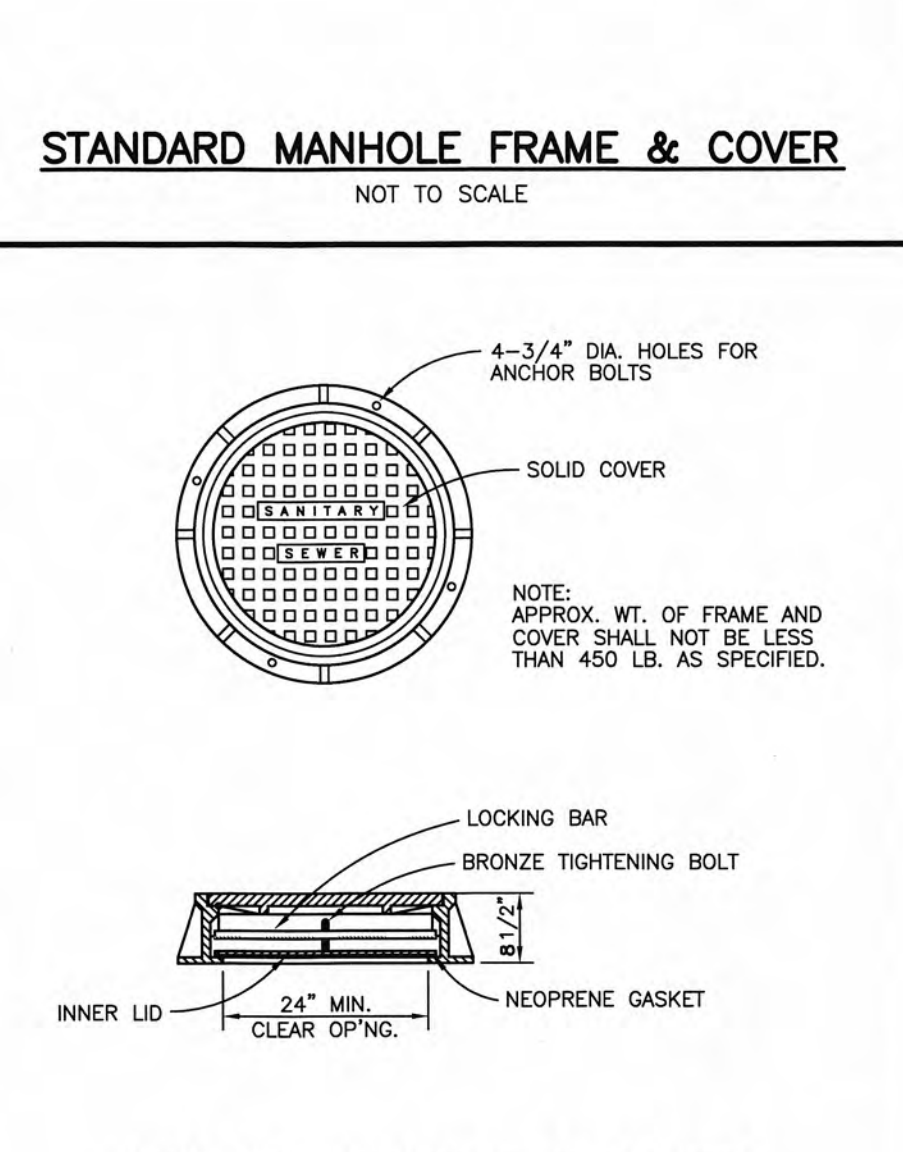
MANHOLE REHABILITATION DETAIL
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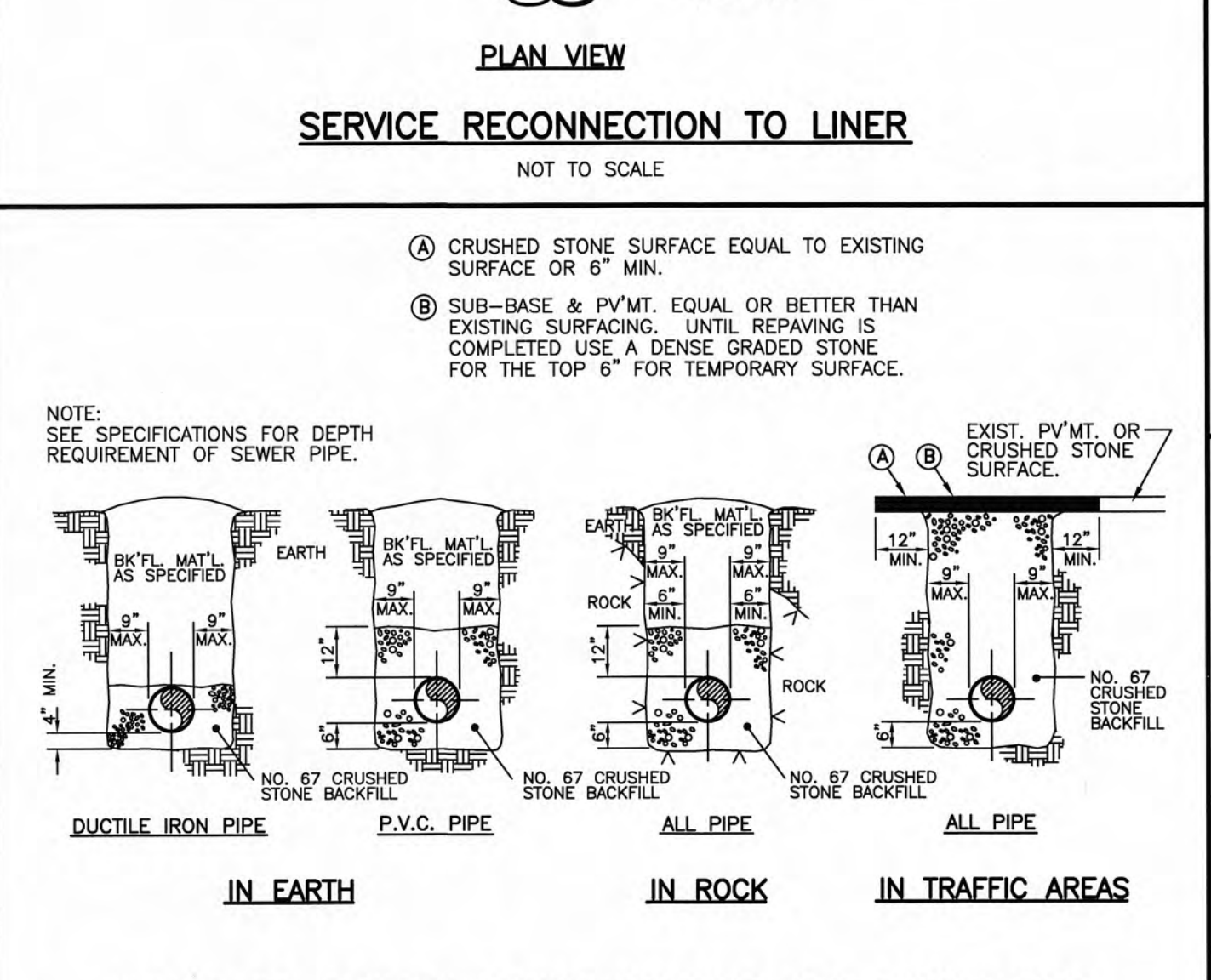
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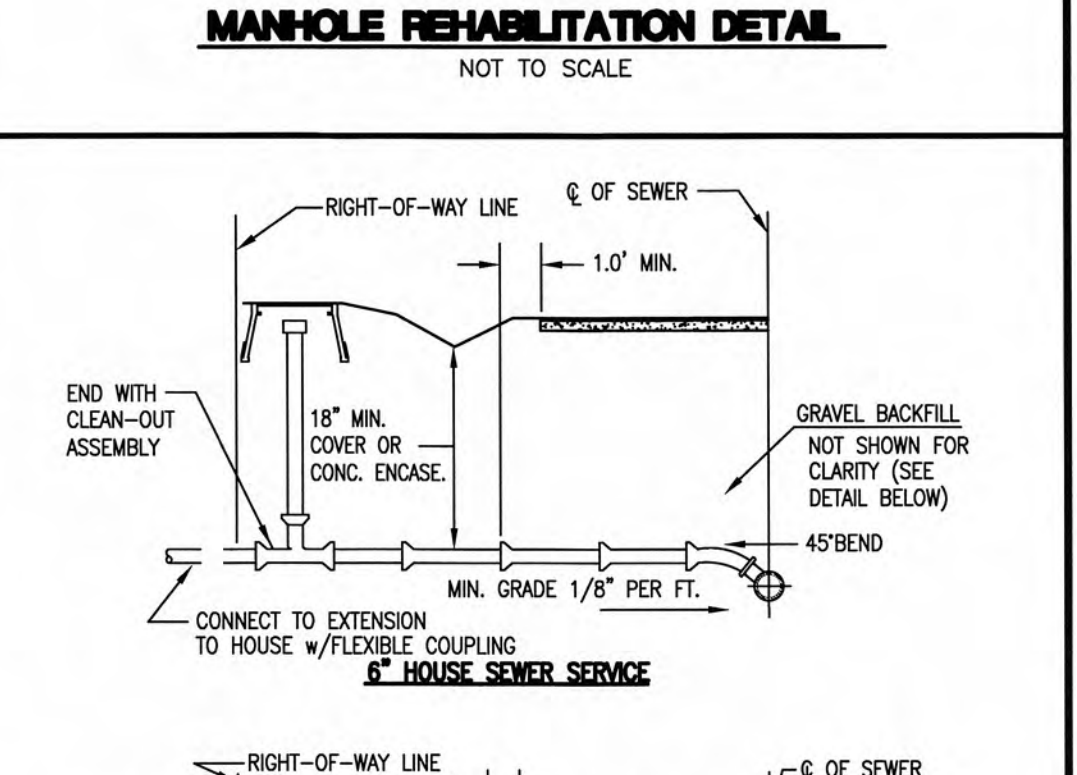
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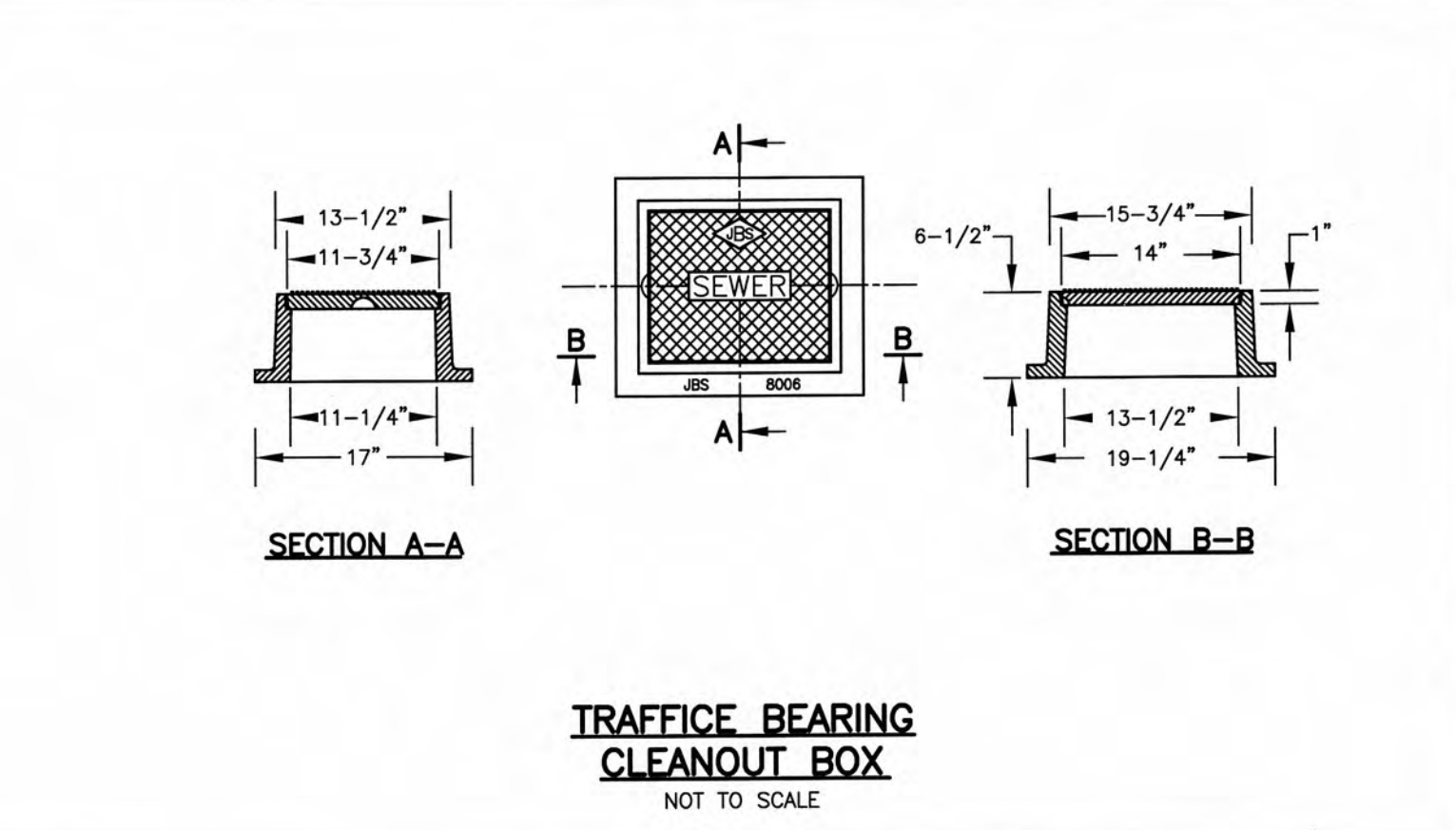
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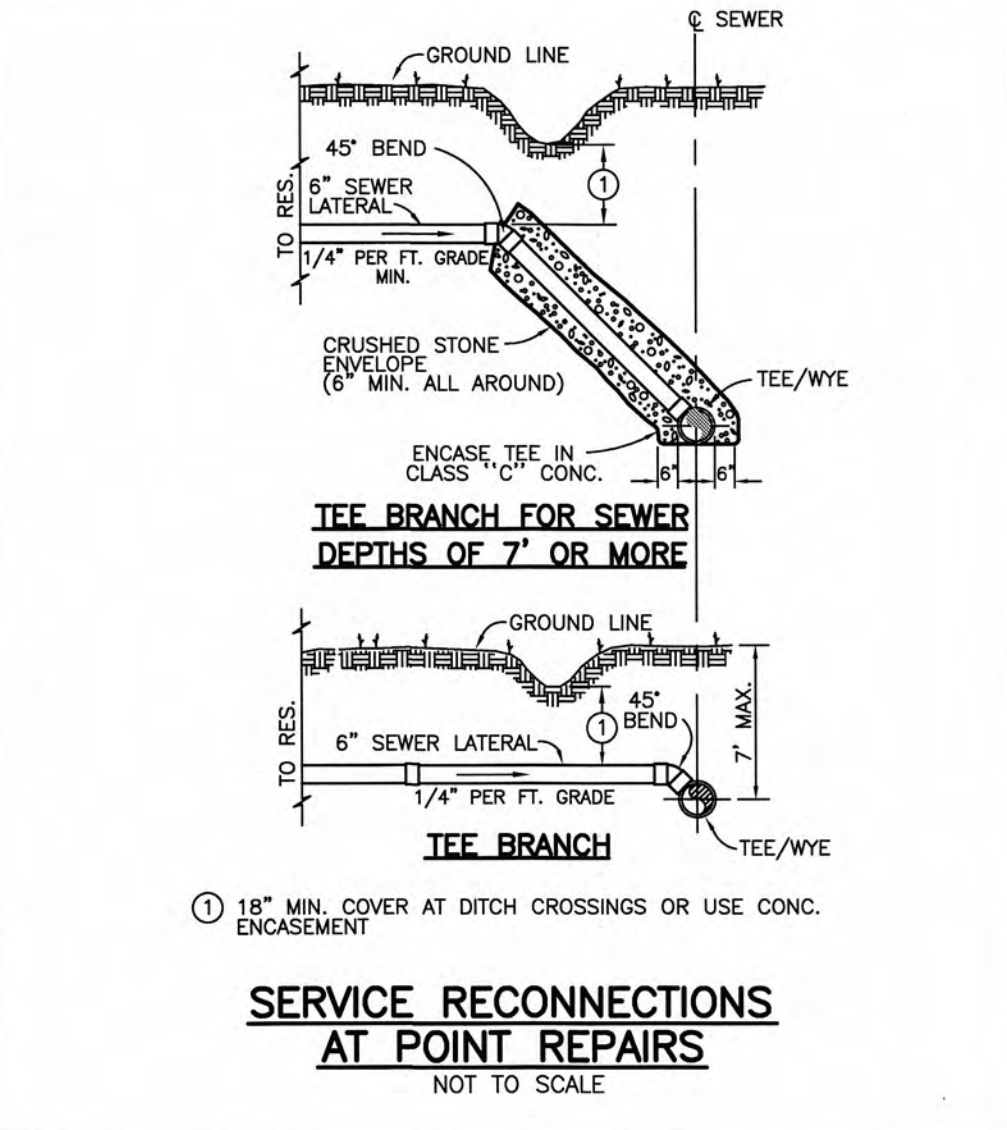
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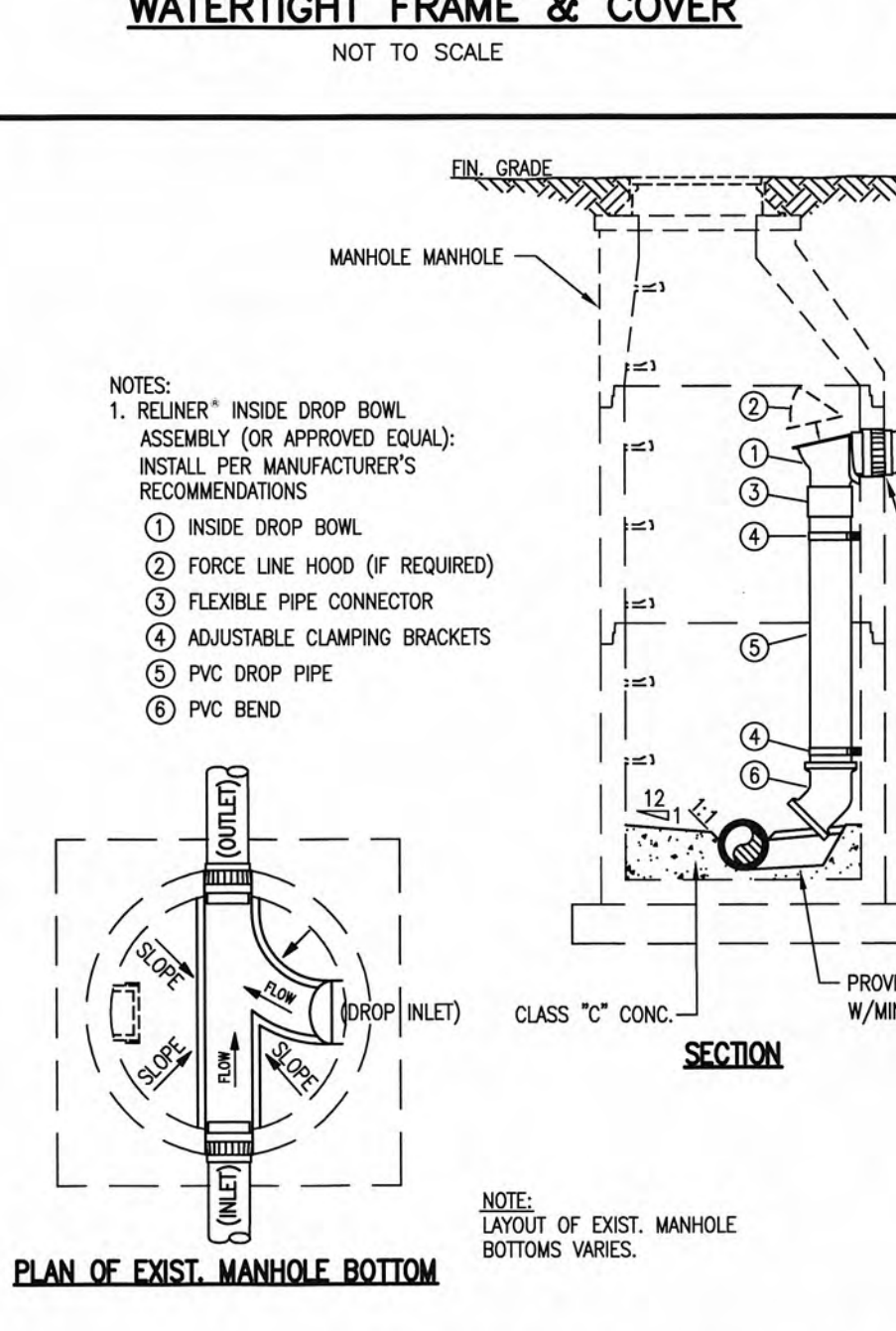
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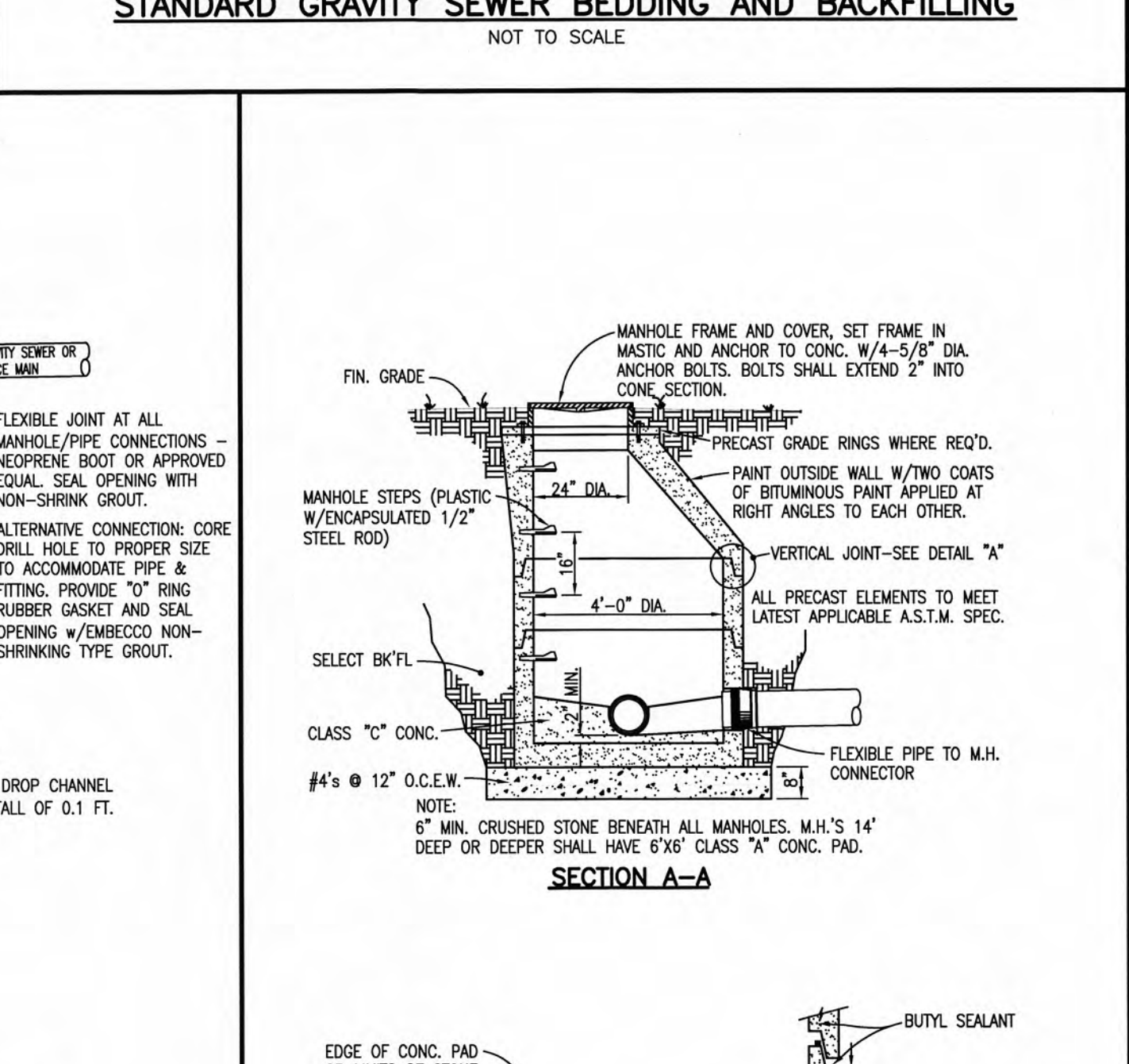
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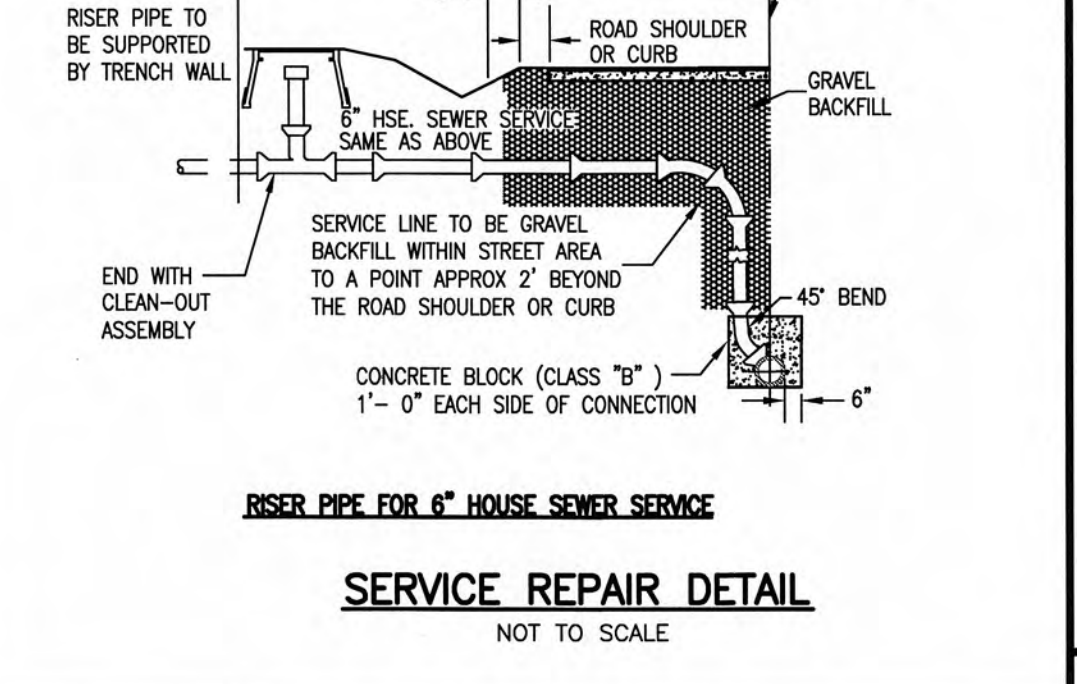
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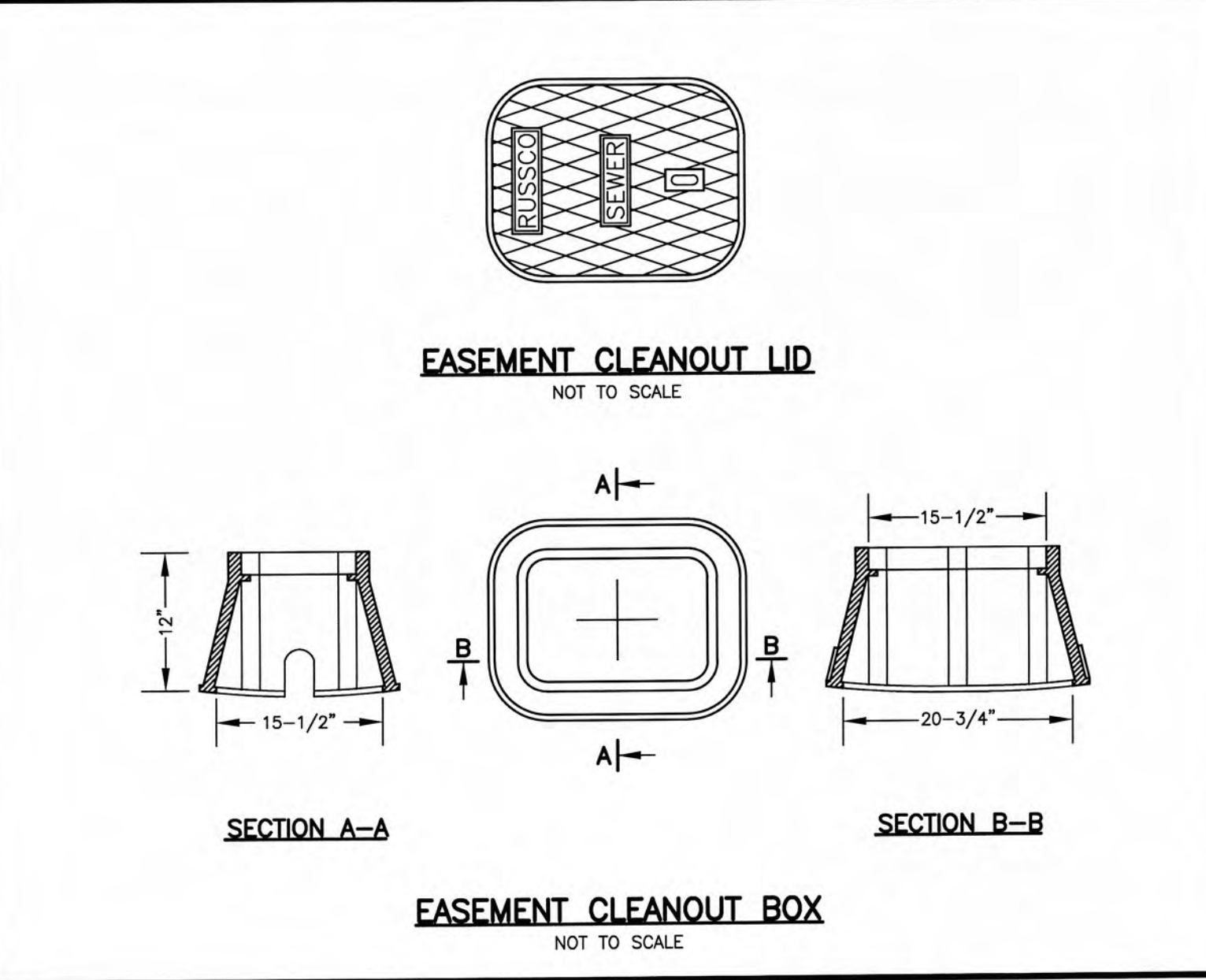
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STANDARD MANHOLE
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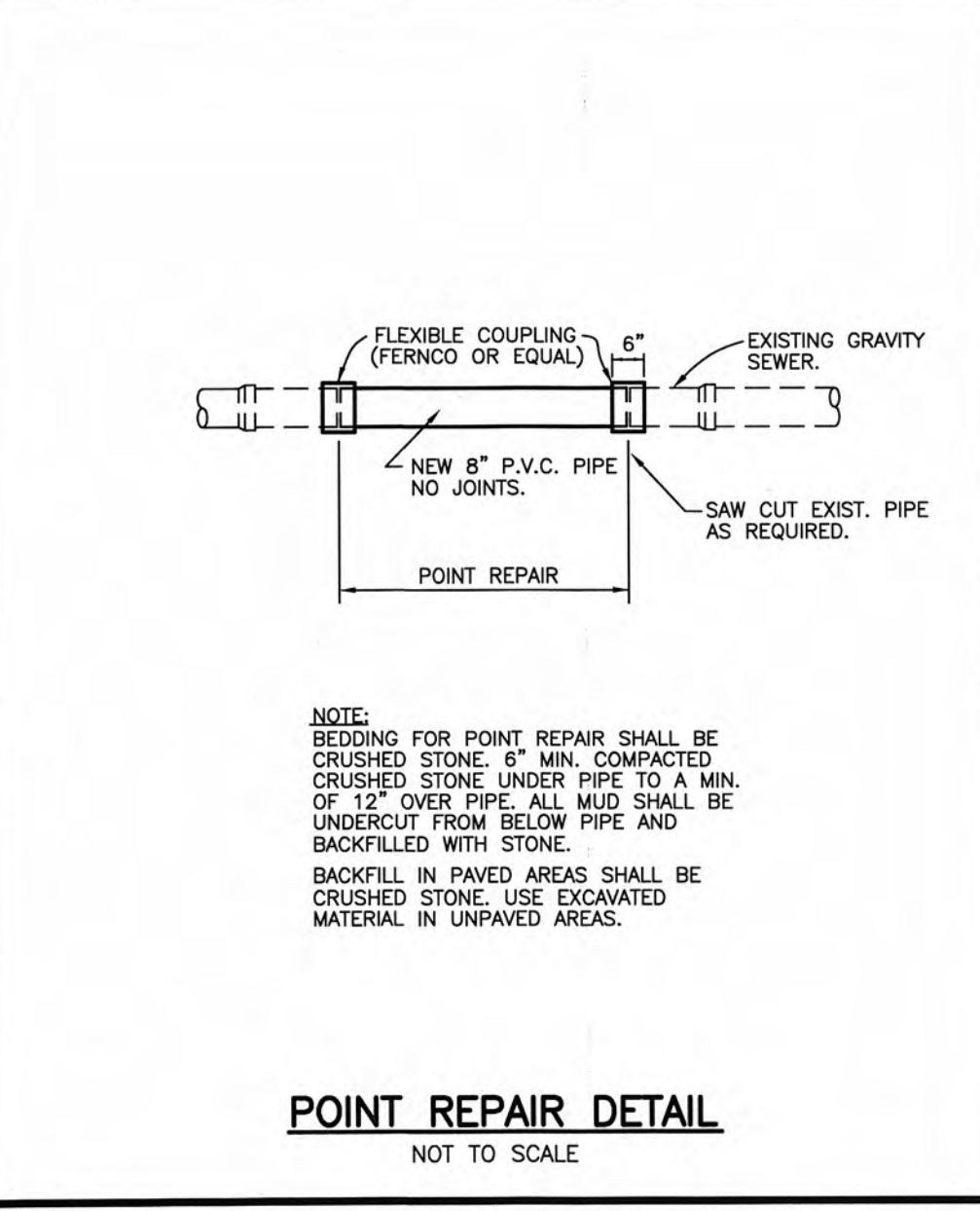


SERVICE REPAIR DETAIL
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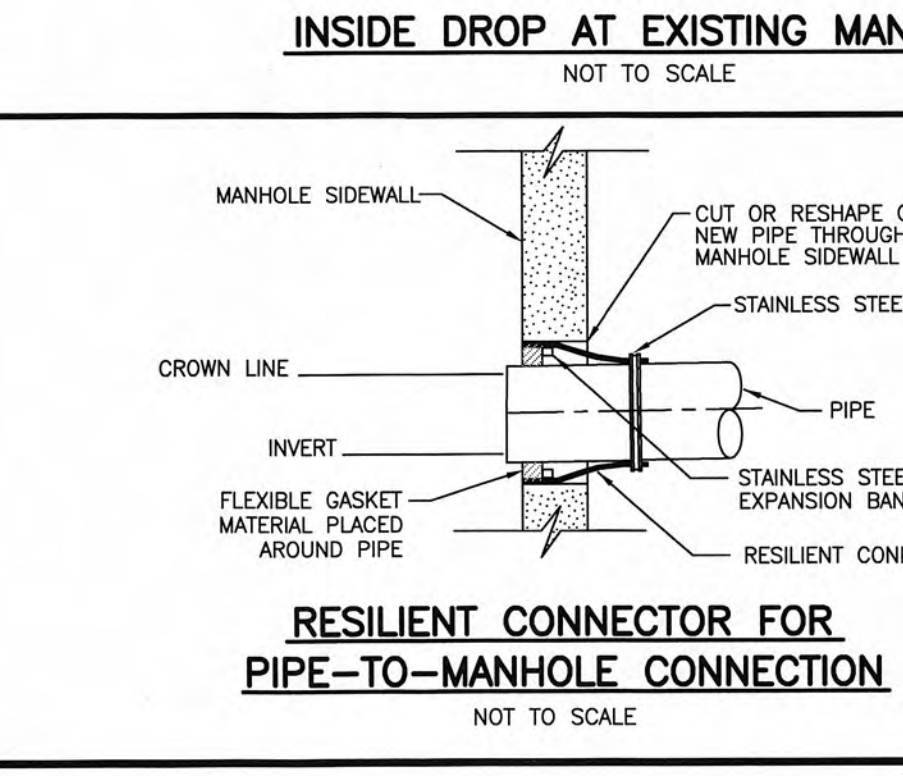


EASEMENT CLEANOUT LID
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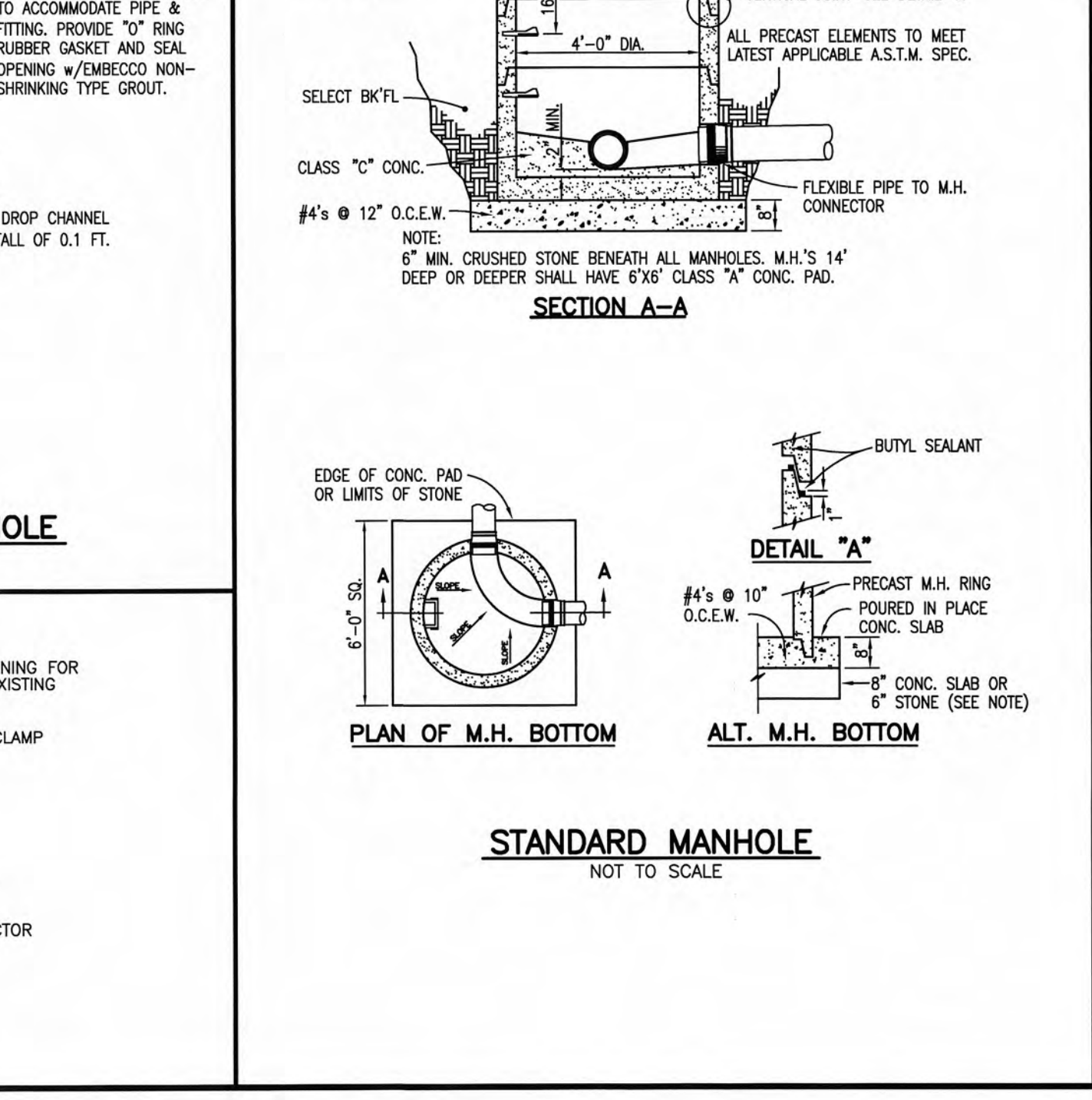
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NOT TO SCALE



POINT REPAIR DETAIL
NOT TO SCALE



RESILIENT CONNECTOR FOR PIPE-TO-MANHOLE CONNECTION
NOT TO SCALE



FLEXIBLE COUPLING DETAIL
NOT TO SCALE



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STANDARD SANITARY SEWER REHABILITATION DETAILS
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

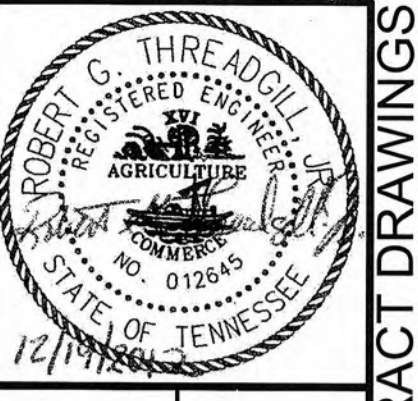
DESIGNED:	RG1
DRAWN:	DM
REVIEWED:	RG1
APPROVED:	RG1

NO.	DATE	DESCRIPTION

DATE: DECEMBER 2012
SCALE: AS NOTED
SHEET NO: C-0-501

CONTRACT DRAWINGS

REVISIONS SHOULD MEASURE EXACTLY 1/4" WHEN PLOTTED



GRW PROJECT NO. 3947-01

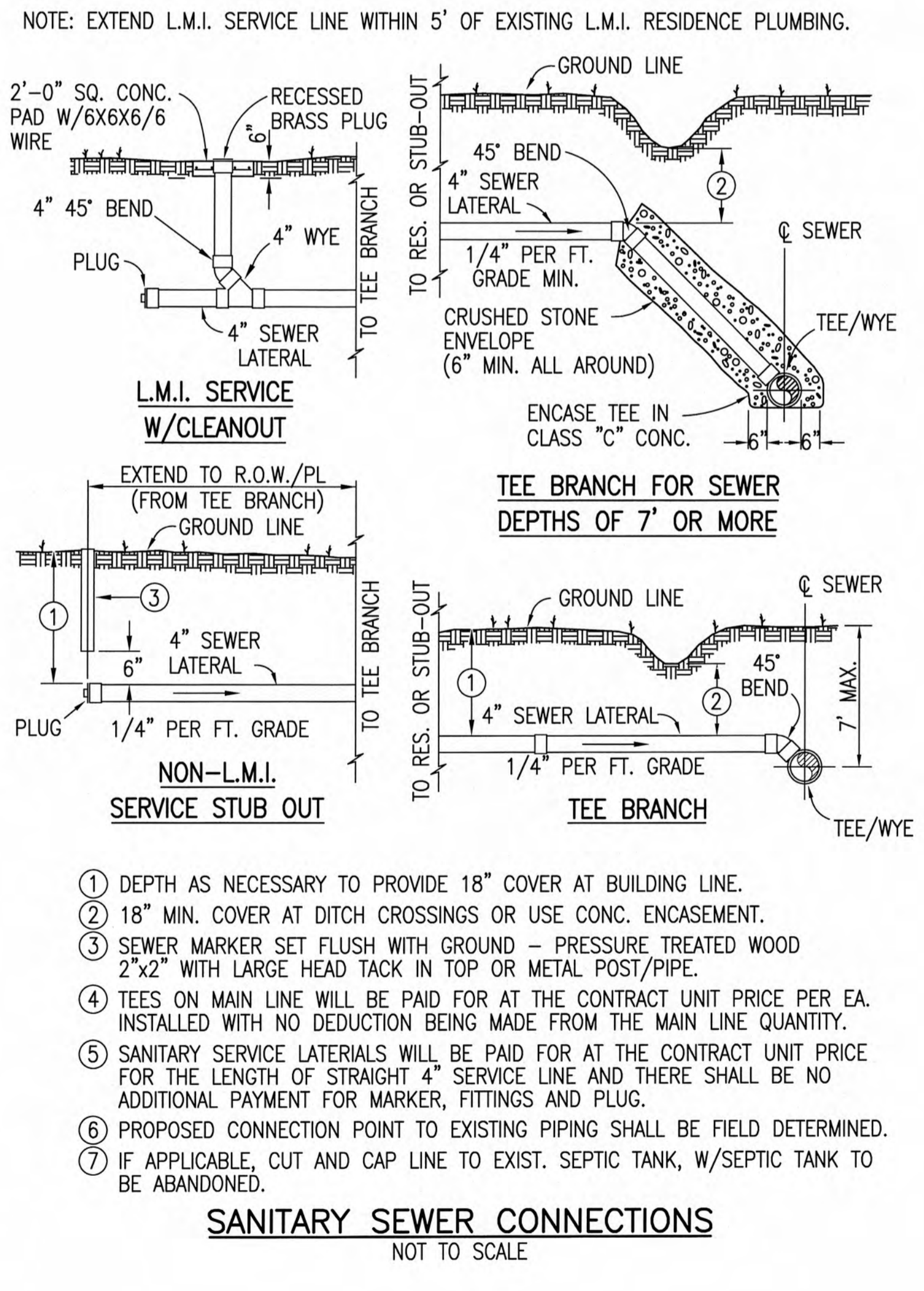
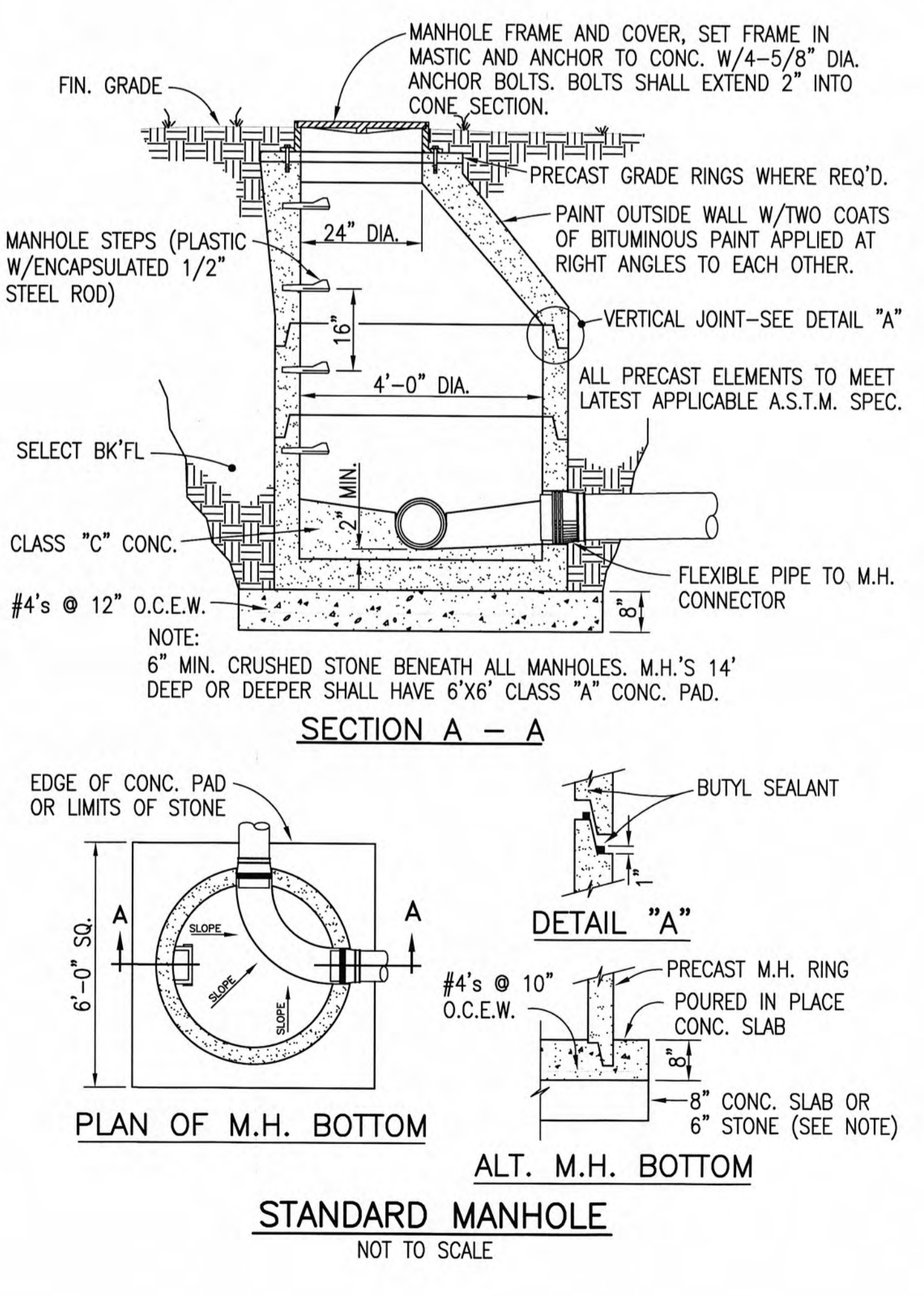
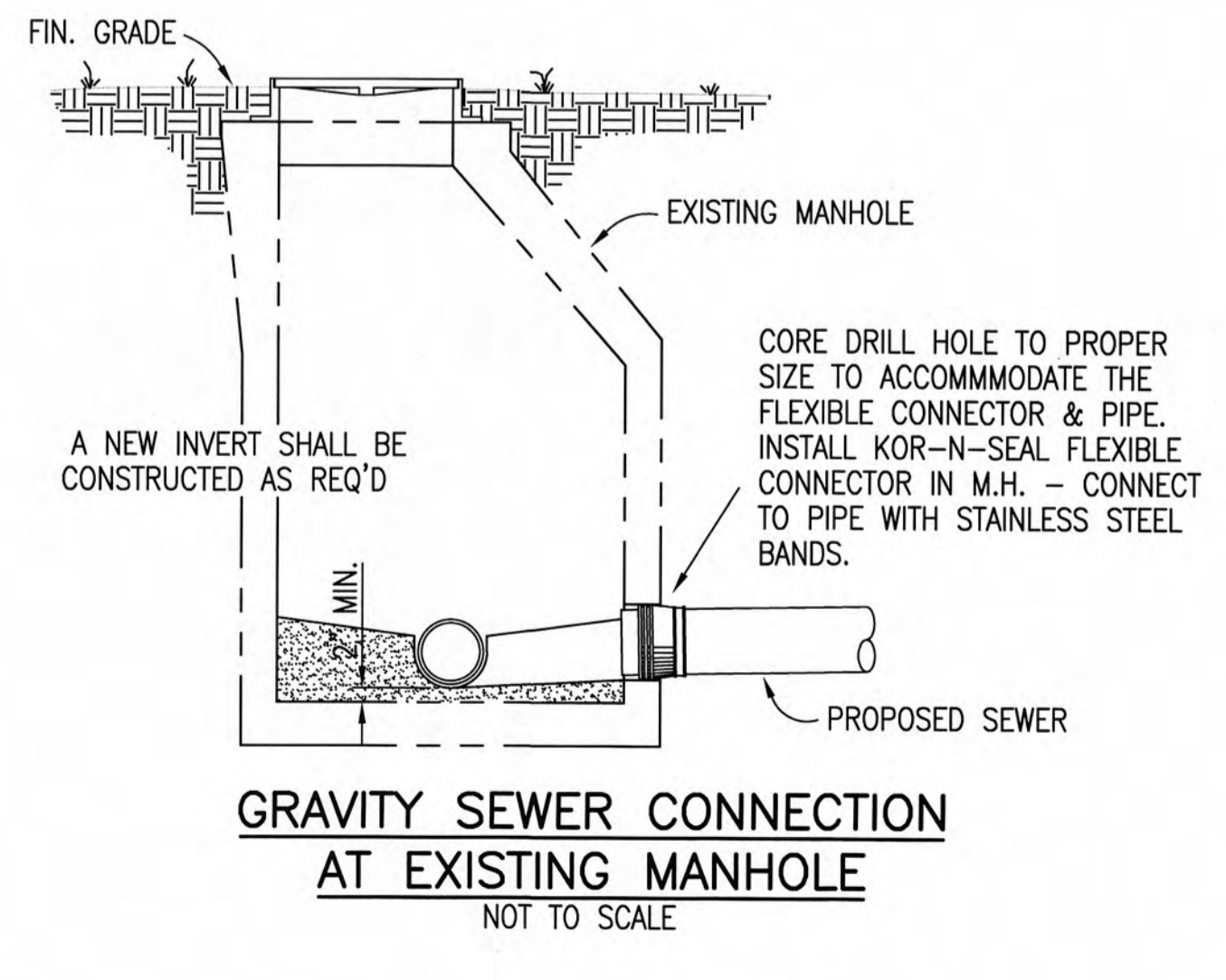
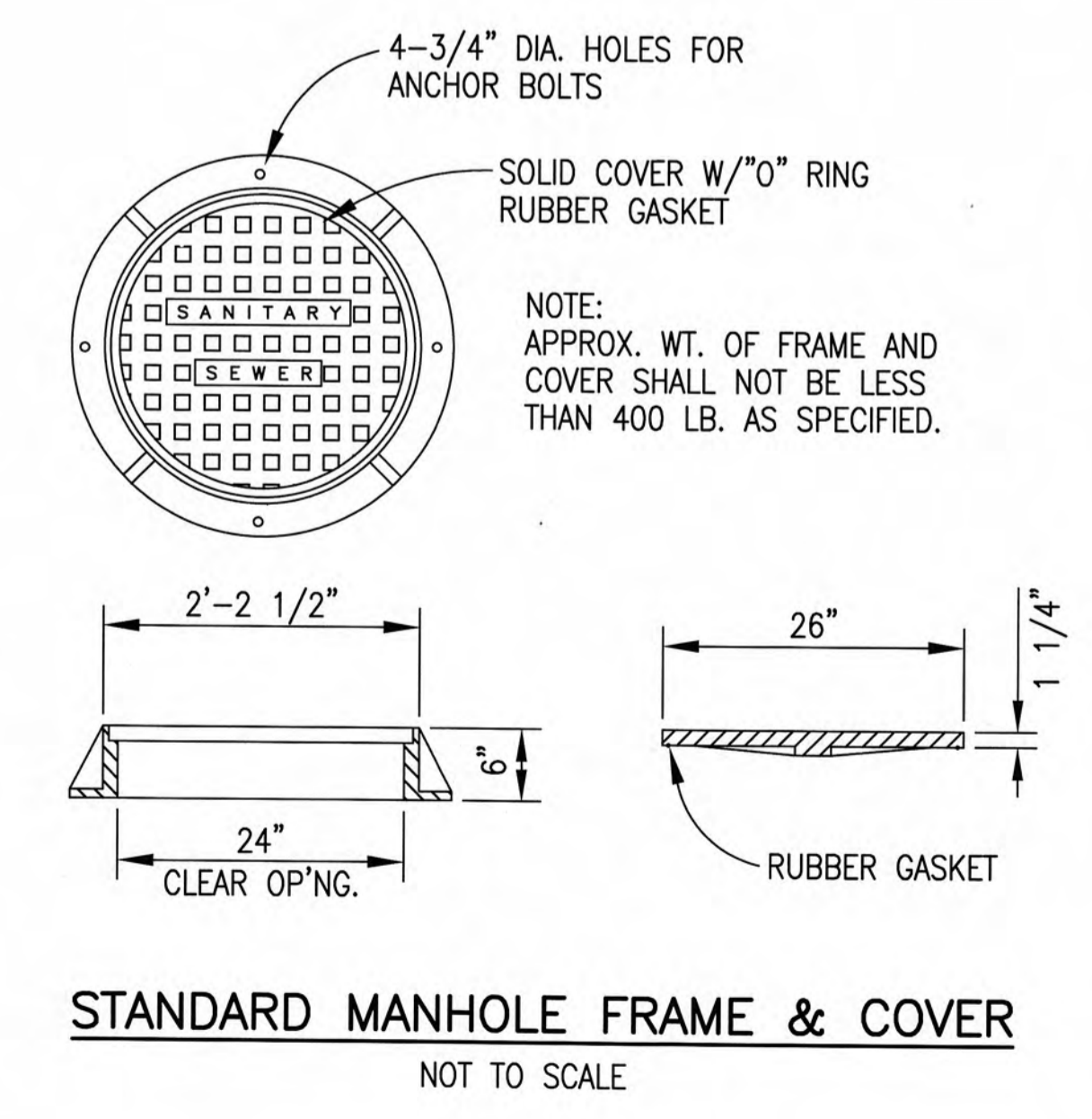
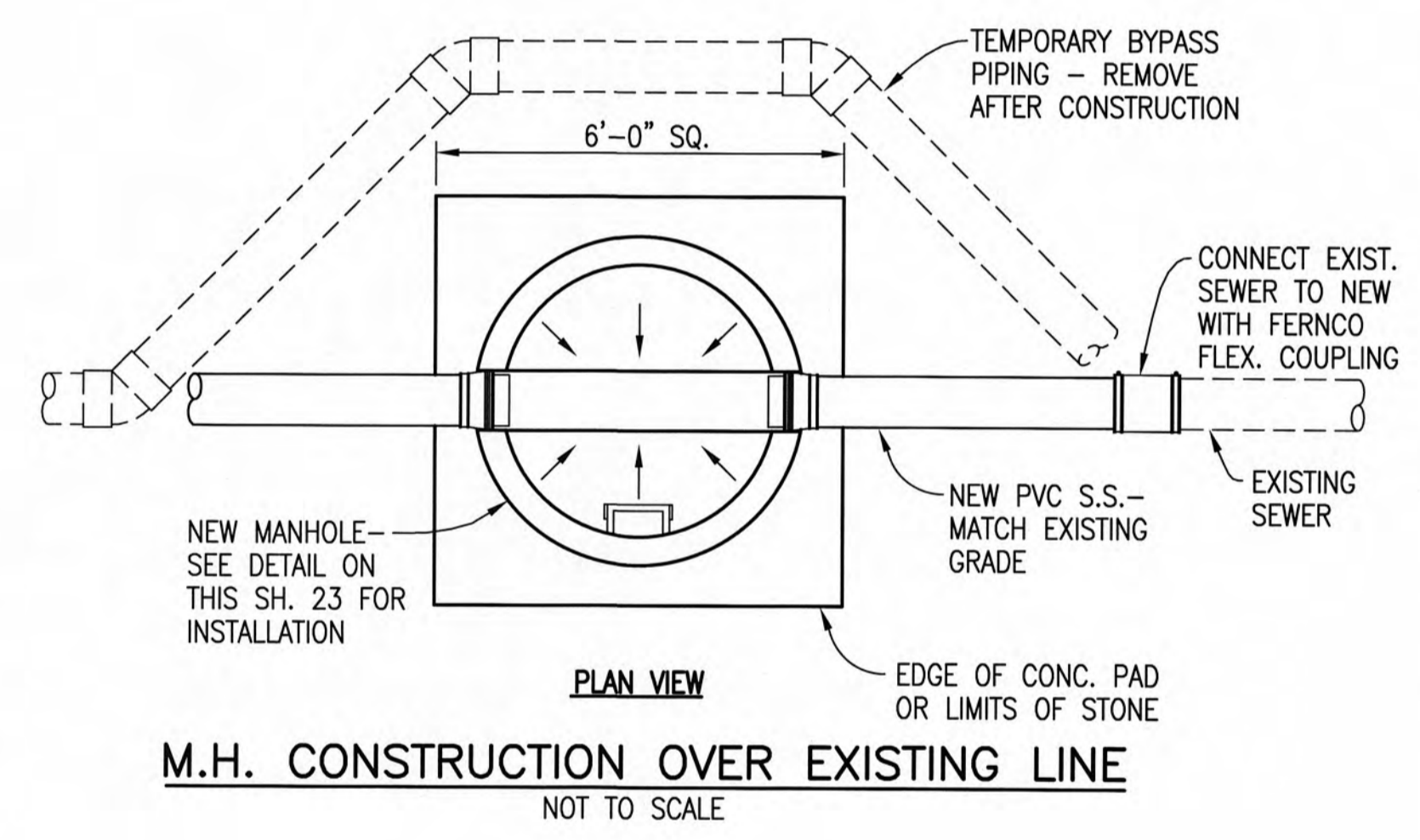
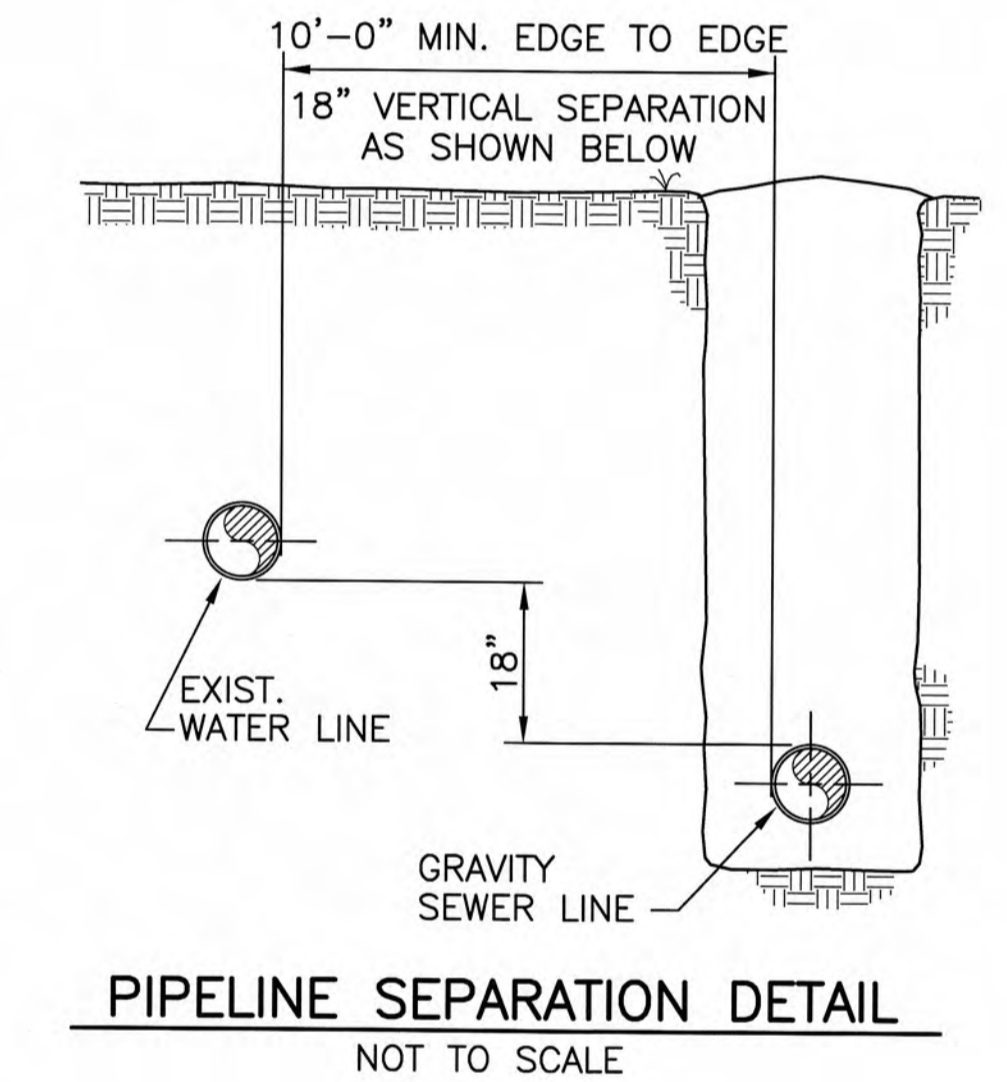
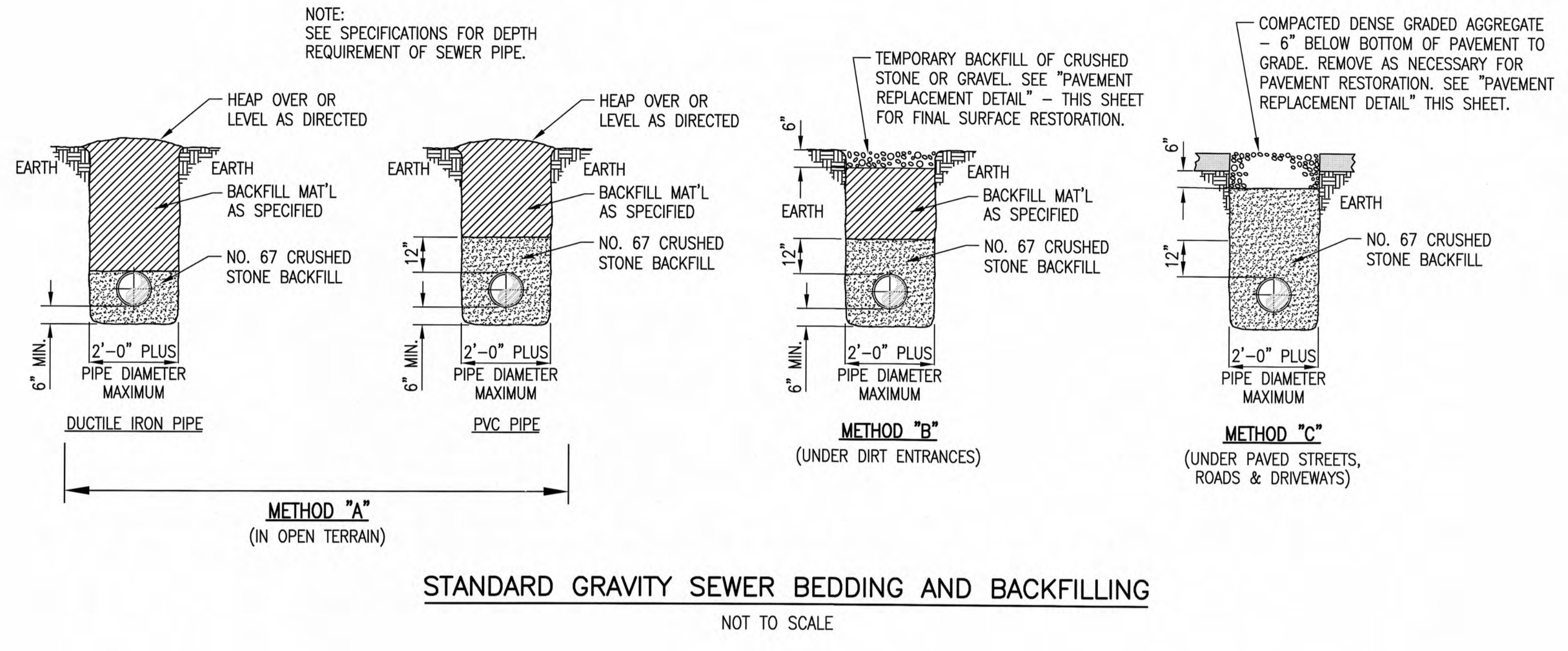
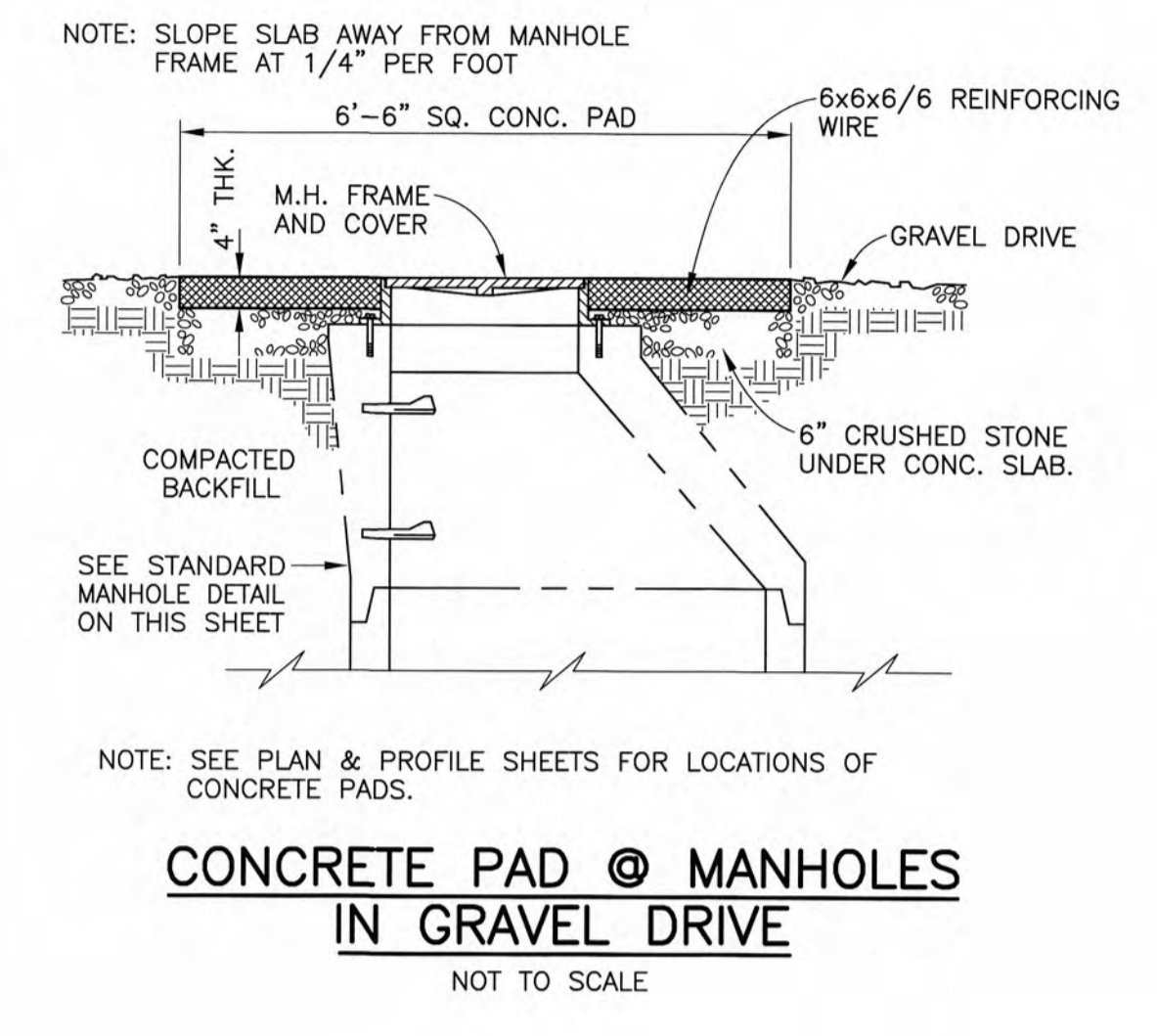
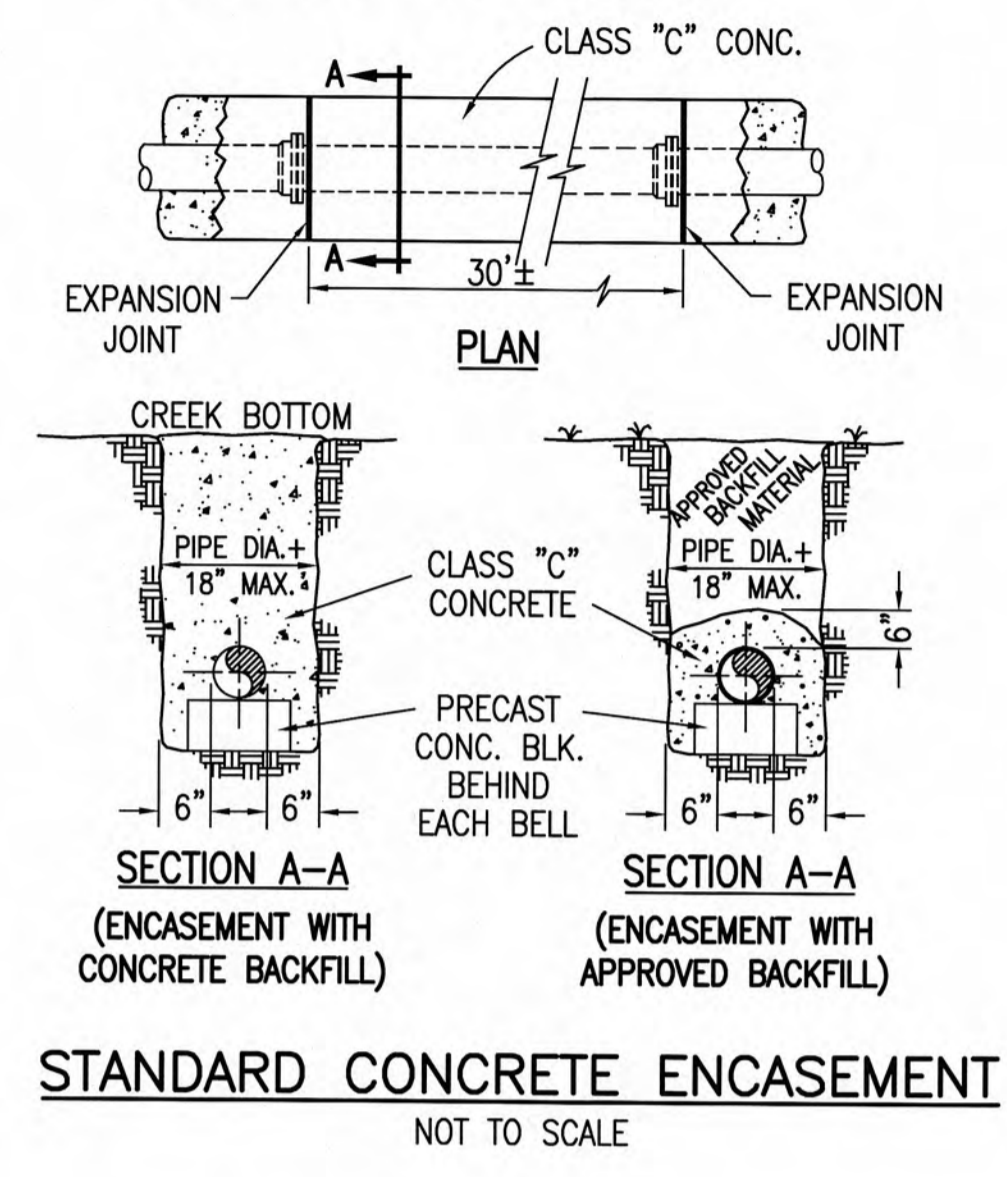


STANDARD GRAVITY SEWER DETAILS
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

REVISIONS	DATE	DESCRIPTION	DESIGNED	BY	DATE	DESCRIPTION	REVIEWED	DATE	DESCRIPTION

DATE: DECEMBER 2012
SCALE: AS NOTED
SHEET NO. C-0-502

- NOTES:
- FOR ENCASEMENT OVER 30' LONG PLACE 3/4" FIBERBOARD EXPANSION JOINT AT PIPE JOINTS BETWEEN POURS APPROX. EVERY 30'.
 - CONCRETE - f'c = 2,500 psi

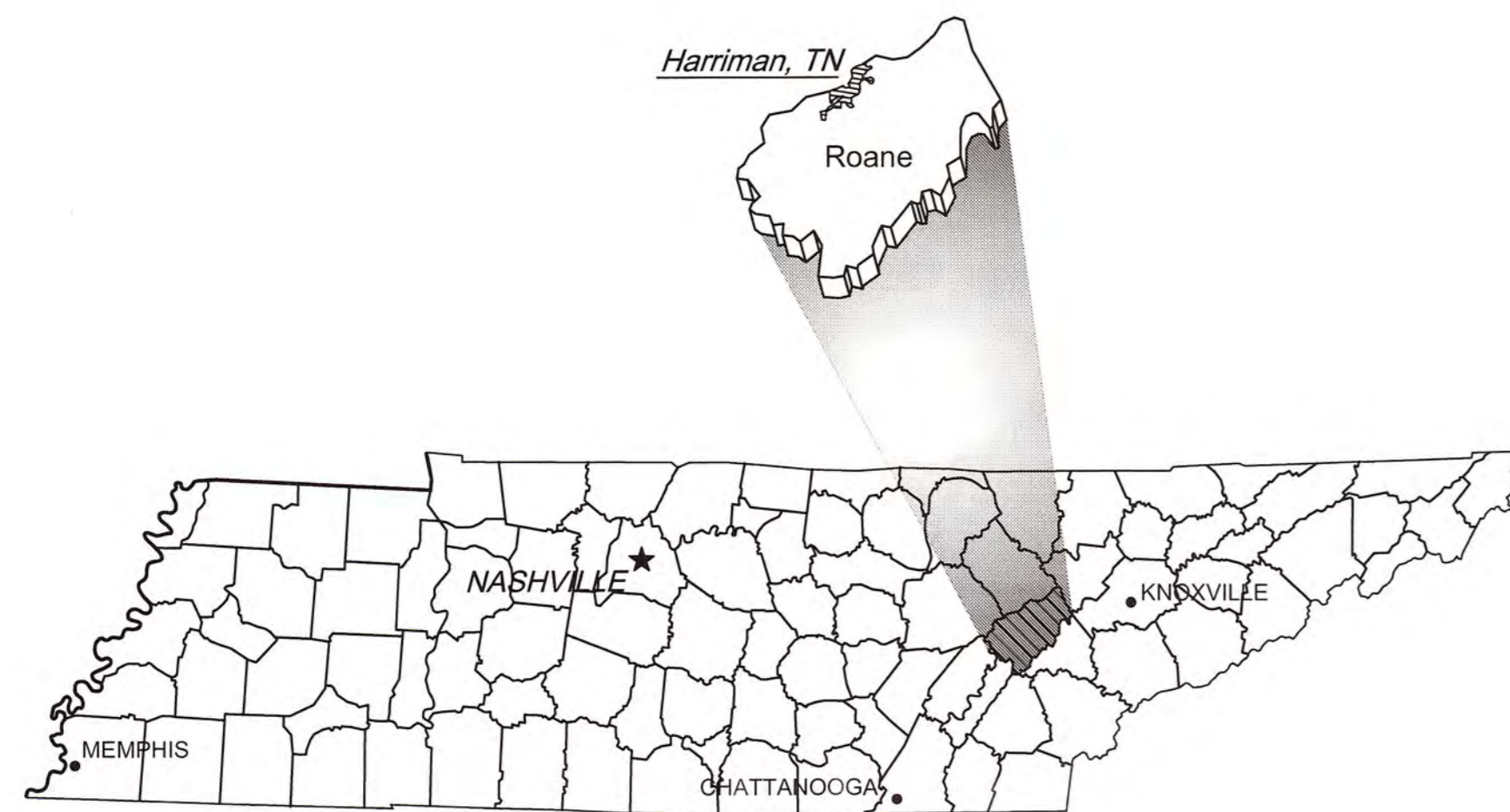


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CONTRACT DRAWINGS

WASTEWATER SYSTEM IMPROVEMENTS SEWER SYSTEM REHABILITATION

CITY OF HARRIMAN, TENNESSEE



DWG. No.	INDEX OF DRAWINGS
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C-0-102	SEWER COLLECTION SYSTEM REHABILITATION PLAN
C-0-103	SEWER COLLECTION SYSTEM REHABILITATION PLAN
C-0-104	SEWER COLLECTION SYSTEM REHABILITATION PLAN
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C-0-107	PROPOSED REPLACEMENT GRAVITY SEWER
C-0-601	SEWER LINE REHABILITATION TABULATION OF WORK
C-0-602	MANHOLE REHABILITATION TABULATION OF WORK
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CG02011.1-269
WPC13-0161



GRW Engineers, Inc.
Engineers, Architects, Planners

801 CORPORATE DRIVE - LEXINGTON, KY. 40503
PH. (859)223-3999 FAX (859)223-8917
LEXINGTON LOUISVILLE NASHVILLE INDIANAPOLIS
FORT MITCHELL KNOXVILLE ARLINGTON

APPROVED FOR CONSTRUCTION
The document bearing this stamp has been received and reviewed by the
TN Department of Environment and Conservation, SRF Loan Program
and is hereby approved for construction by the Commissioner.
APPROVED MAY 10 2013
The approval expires 1 year from the approval date AND shall not be
considered as creating a presumption of correct operation or as waiving by
the Commissioner that the approved facilities will reach the design goals.
For the Commissioner by _____

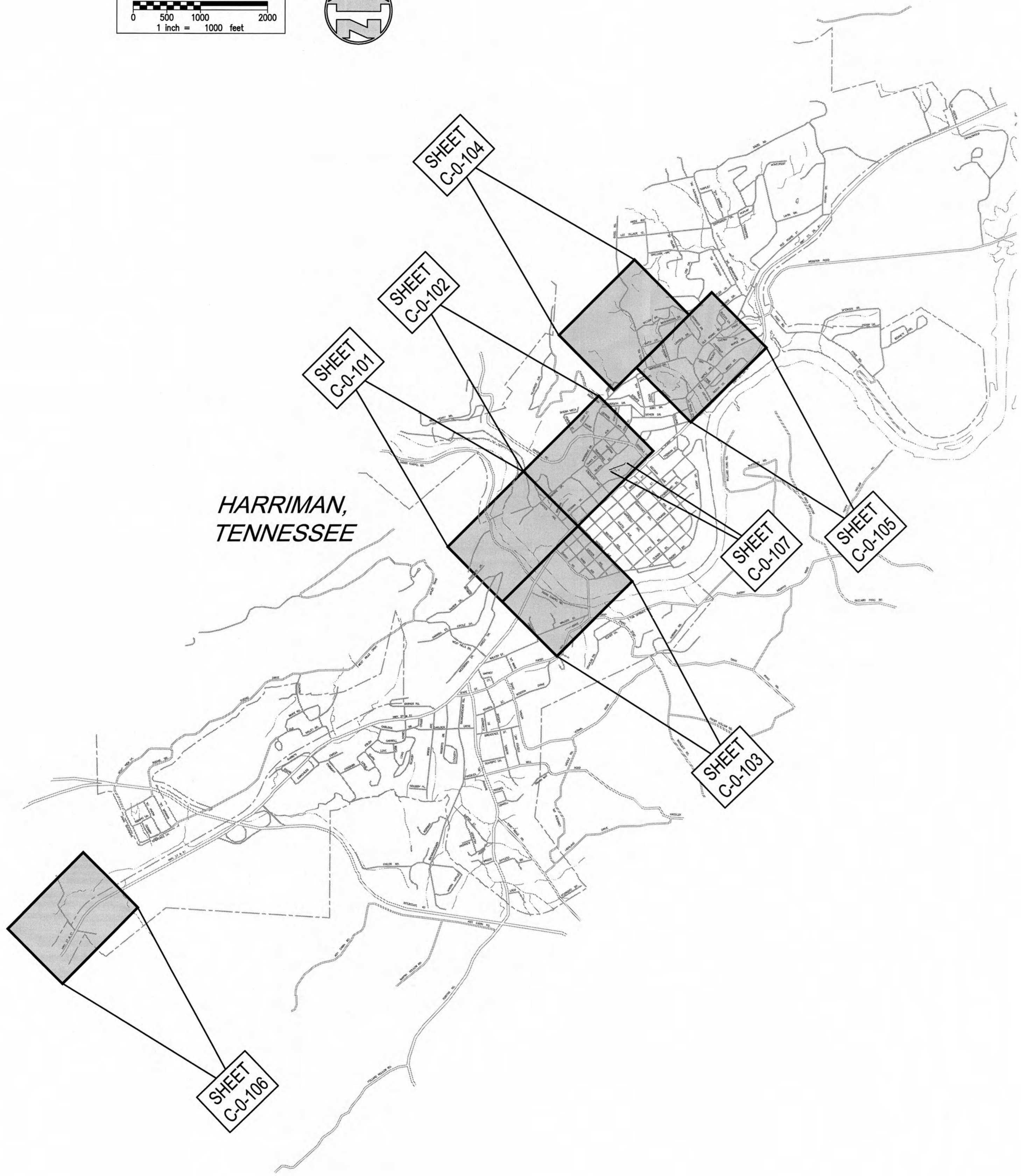
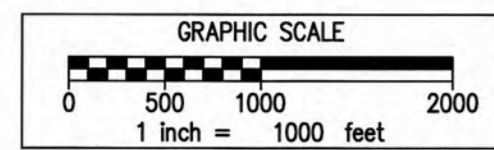


DECEMBER 2012

SRF
Sewer
(Line Rehab)
TDEC-Approved
Set

GRW PROJECT NO. 3947-01

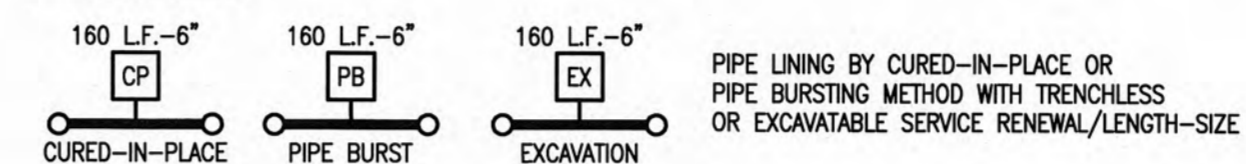
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PROJECT LOCATION - SHEET LAYOUT PLAN

SEWER REHABILITATION STANDARD LEGEND

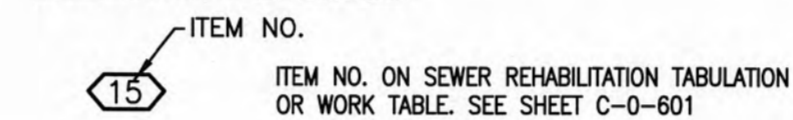
PIPE LINING



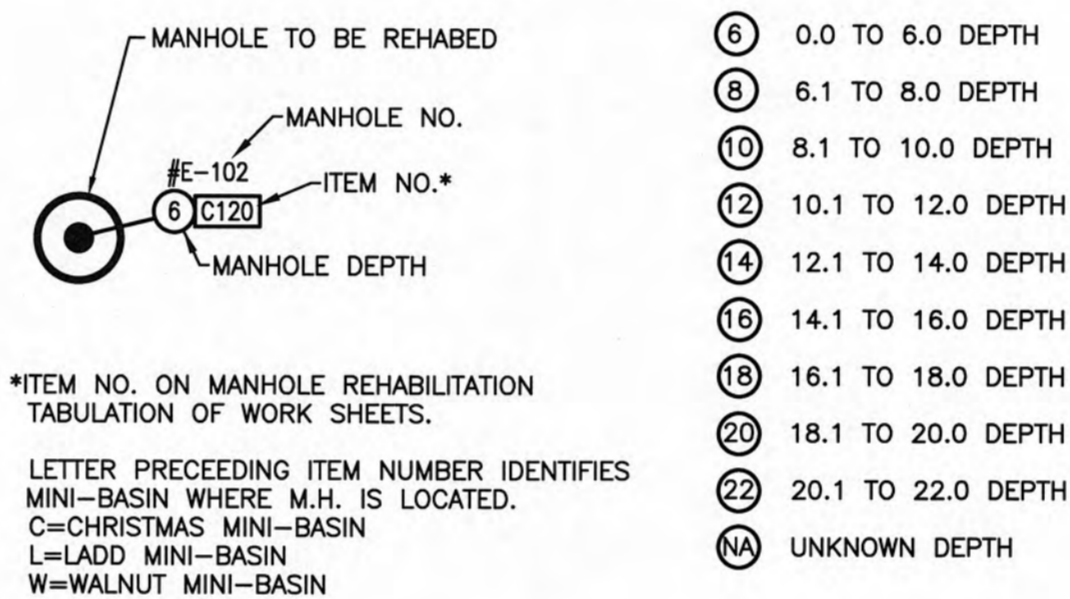
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REFERENCE NUMBER



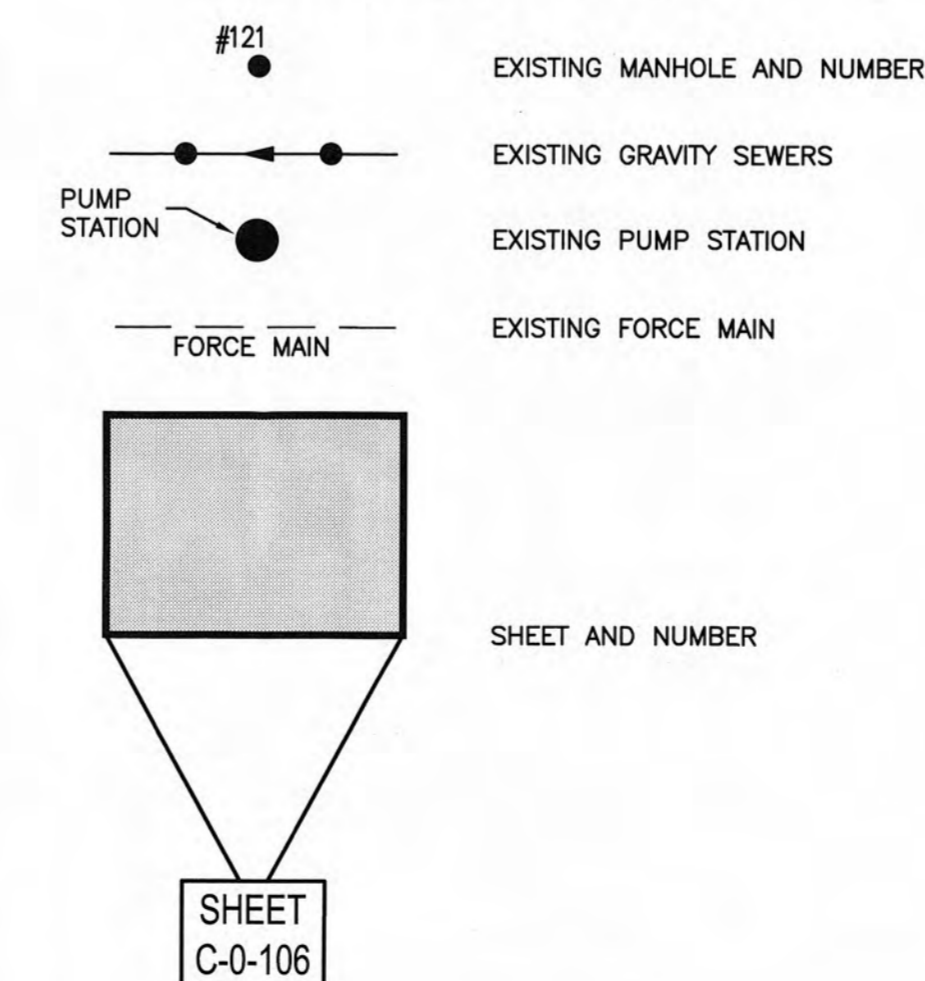
MANHOLE REHABILITATION



ABBREVIATIONS

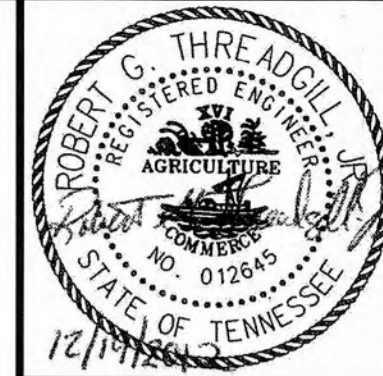
- PP - PRIVATE PROPERTY
- PE - POLYETHYLENE
- PVC - POLYVINYL CHLORIDE
- SL - SLIPLINING
- IPR - INTERNAL POINT REPAIR
- SR - SERVICE REPAIR
- L - CLEAN AND LINE MANHOLE
- CP - PIPE LINING BY CURED-IN-PLACE
- PB - PIPE REPLACEMENT BY PIPE BURSTING
- EX - PIPE REPLACEMENT BY EXCAVATION
- PR - POINT REPAIR
- RP - REPLACE PIPE
- PLP - INTERNAL PIPE LINING PATCH
- NS - NOT SEEN
- NA - NOT APPLICABLE/UNKNOWN

GENERAL LEGEND



GENERAL NOTES

1. 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.
2. 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.
3. 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
4. CONTRACTOR SHALL NOT PLACE ANY VALVES OR OTHER ABOVE GRADE DEVICES IN ANY DITCH LINE ON STATE HIGHWAY RIGHT OF WAY.
5. 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.
6. 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.
7. THE TEMPORARY POLLUTION CONTROL PROVISIONS SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL MEASURES, TO ENSURE ECONOMICAL, 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.
8. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE APPROPRIATE FEDERAL, STATE, COUNTY AND/OR LOCAL AGENCIES TO CROSS ALL HIGHWAYS, STREETS, STREAMS, EASEMENTS, ETC...
9. 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.
10. PROPERTY OWNERS AND PARCEL INFORMATION PROVIDED BY THE COUNTY REGISTRAR OF DEEDS.
11. WATER LINE INFORMATION PROVIDED BY THE UTILITY DISTRICT.
12. 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.
13. LOCATION AND REFERENCE OF MANHOLES AND SEWERS HAVE BEEN APPROXIMATED FROM EXISTING PLANS OR RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND LINE SIZE, MATERIAL, ETC.
14. EXISTING SANITARY SEWER MAPS PROVIDED BY CITY OF HARRIMAN, TN. LINE SIZES ARE NOTED IN SEWER REHABILITATION TABULATION OF WORK CHARTS.



GRW PROJECT NO. 3947-01
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PROJECT LOCATION - SHEET LAYOUT PLAN,
LEGENDS AND GENERAL NOTES
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

REVISIONS	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY

DATE: DECEMBER 2012
SCALE: AS NOTED
SHEET NO. G-0-001

G-0-001

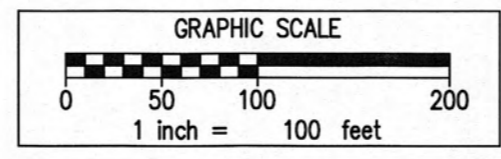
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PRINTED: 3/18/2013 @ 2:08PM
PLOTTED BY: DWMorris

CONTRACT DRAWINGS

PLOTTED BY: DWM/oms

PRINTED: 31/8/2013 @ 2:50PM

FILE NAME: I:\3947-Harriman Utility\01-SRF Sewer Rehab\Working Drawings\Design Drawings\3947-01-C-0-101-106.dwg



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SEWER COLLECTION SYSTEM
 REHABILITATION PLAN
 SEWER SYSTEM REHABILITATION
 CITY OF HARRIMAN, TENNESSEE

REVISIONS	DATE	BY	ACH	DM	RGT	RGT

REVISIONS	DATE	BY	ACH	DM	RGT	RGT

DATE: DECEMBER 2012

SCALE: 1" = 100'

SHEET NO.

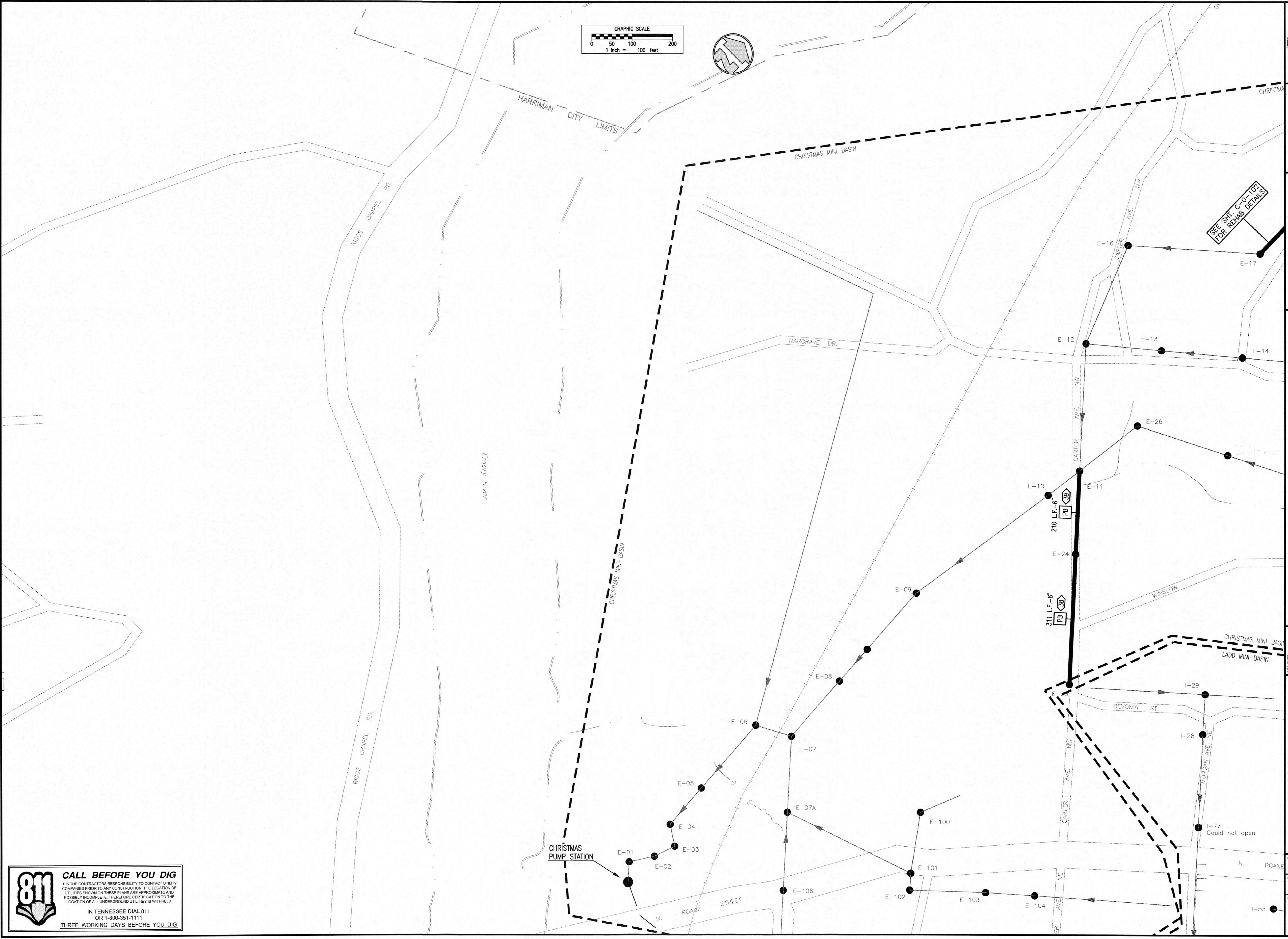
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CONTRACT DRAWINGS

811 CALL BEFORE YOU DIG

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE CERTIFICATION TO THE LOCATION OF ALL UNDERGROUND UTILITIES IS WITHHELD.

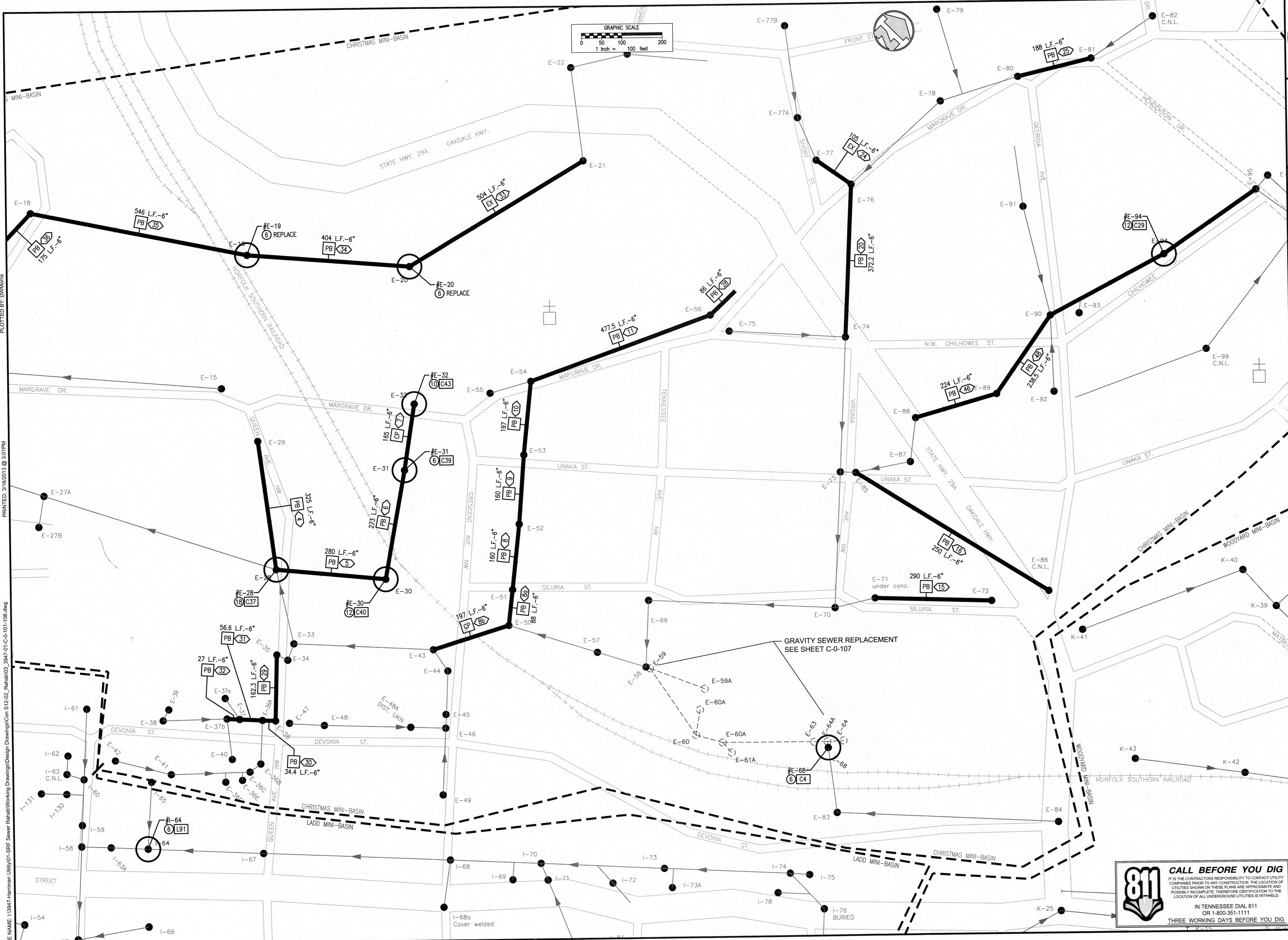
IN TENNESSEE DIAL 811
 OR 1-800-361-1111
 THREE WORKING DAYS BEFORE YOU DIG.



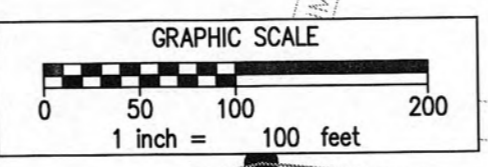
SEE ST. C-0-102
 FOR REHAB DETAILS

CHRISTMAS PUMP STATION

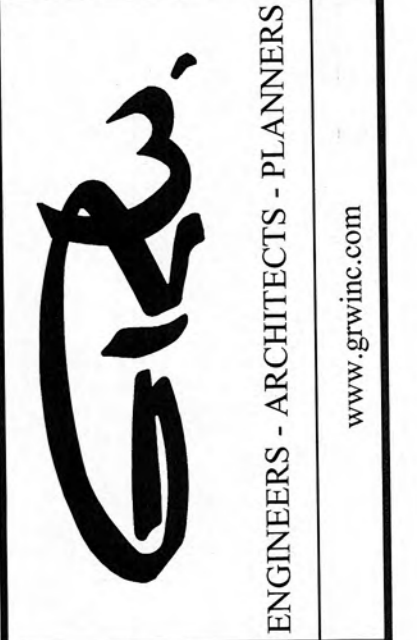
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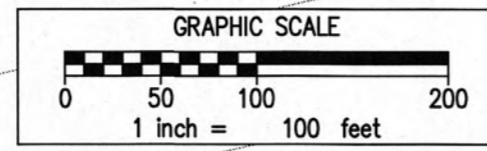
**SEWER COLLECTION SYSTEM
 REHABILITATION PLAN**
 SEWER SYSTEM REHABILITATION
 CITY OF HARRIMAN, TENNESSEE

REVISIONS	DATE	DESCRIPTION	DESIGNED	ACH	DRAWN	DM	REVIEWED	RGT	APPROVED	RGT

DATE: DECEMBER 2012
 SCALE: 1" = 100'
 SHEET NO. C-0-102

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CONTRACT DRAWINGS



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**SEWER COLLECTION SYSTEM
 REHABILITATION PLAN**
 SEWER SYSTEM REHABILITATION
 CITY OF HARRIMAN, TENNESSEE

DESIGNED:	ACH
DRAWN:	DM
REVIEWED:	RGT
APPROVED:	RGT

NO.	DATE	DESCRIPTION

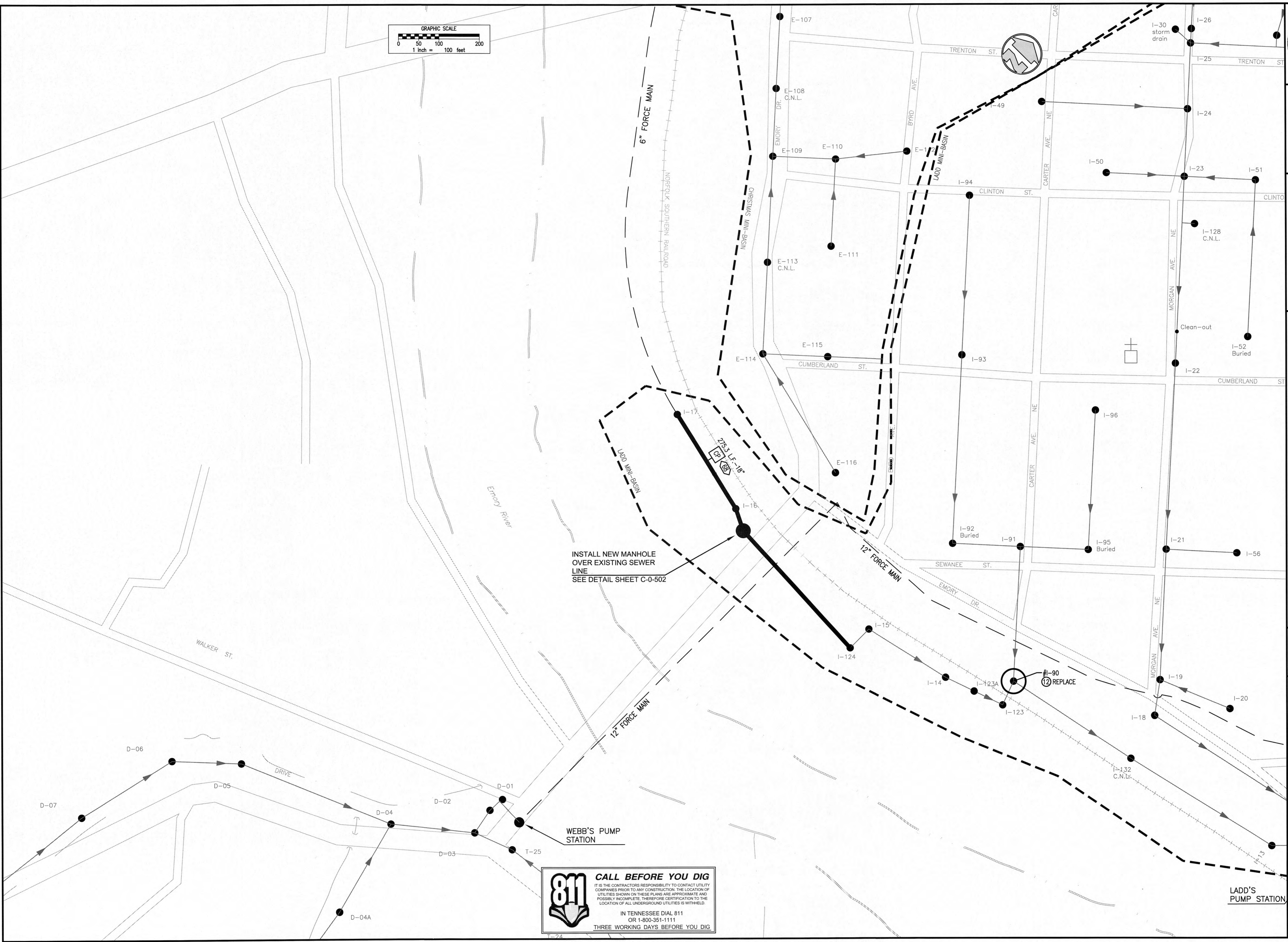
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 SHEET NO.

C-0-103

PLOTTED BY: DMorris

PRINTED: 3/18/2013 @ 2:51PM

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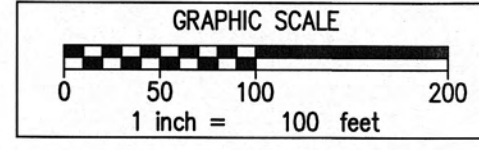
811 CALL BEFORE YOU DIG
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE CERTIFICATION TO THE LOCATION OF ALL UNDERGROUND UTILITIES IS WITHHELD.
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SEWER COLLECTION SYSTEM
REHABILITATION PLAN
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

NO.	REVISIONS DESCRIPTION	DATE		BY		DESIGNED	
						ACH	DM

SCALE CHECK: THIS MARK SHOULD BE DRAWN EXACTLY AS WHEN PLOTTED

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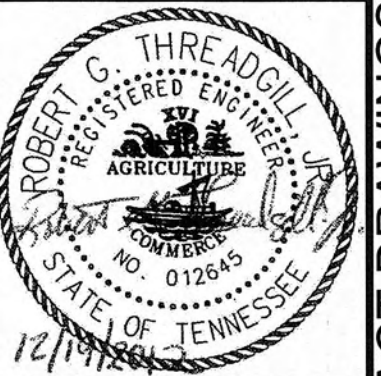
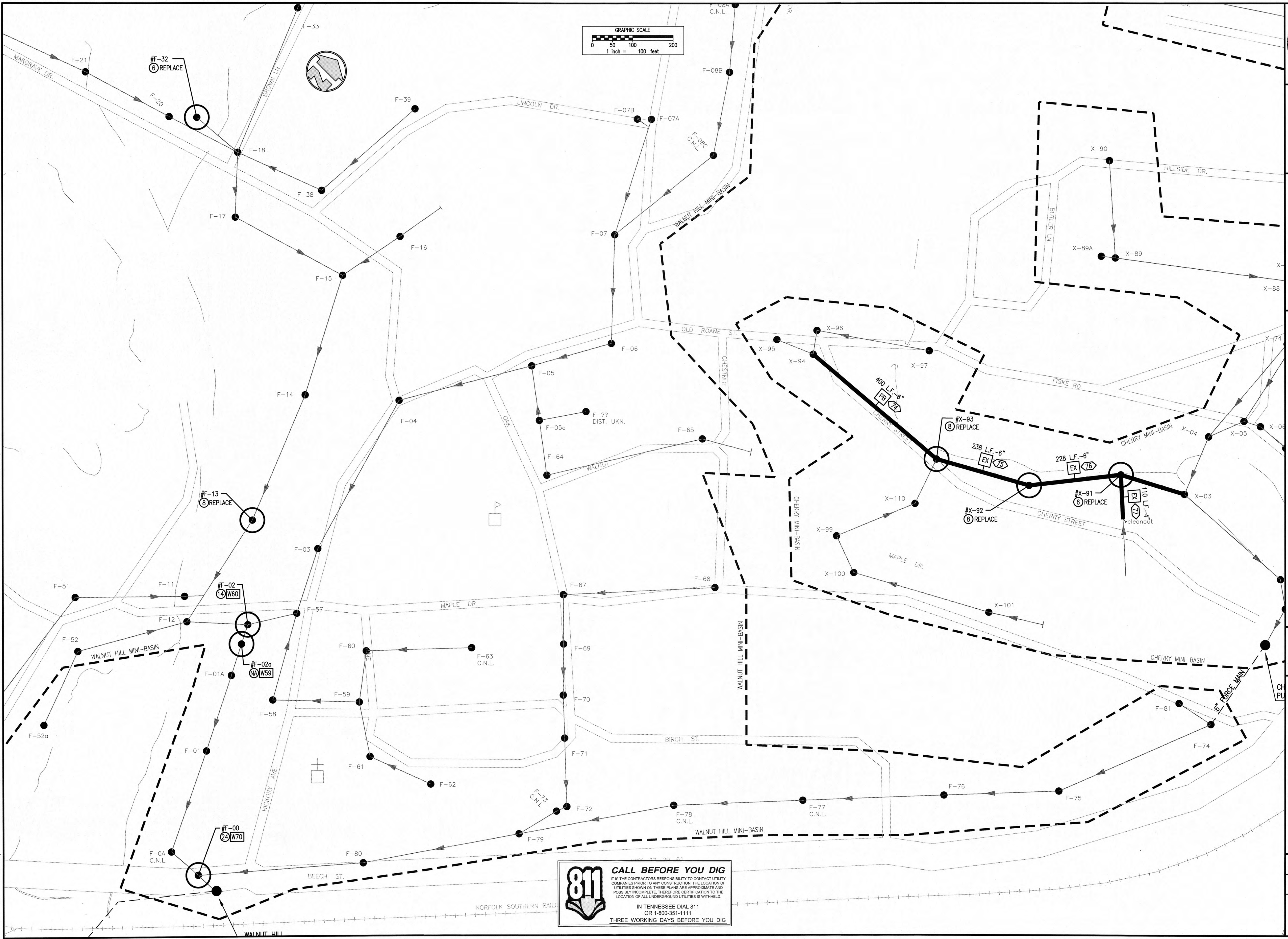
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CONTRACT DRAWINGS

SEWER COLLECTION SYSTEM
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CITY OF HARRIMAN, TENNESSEE

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