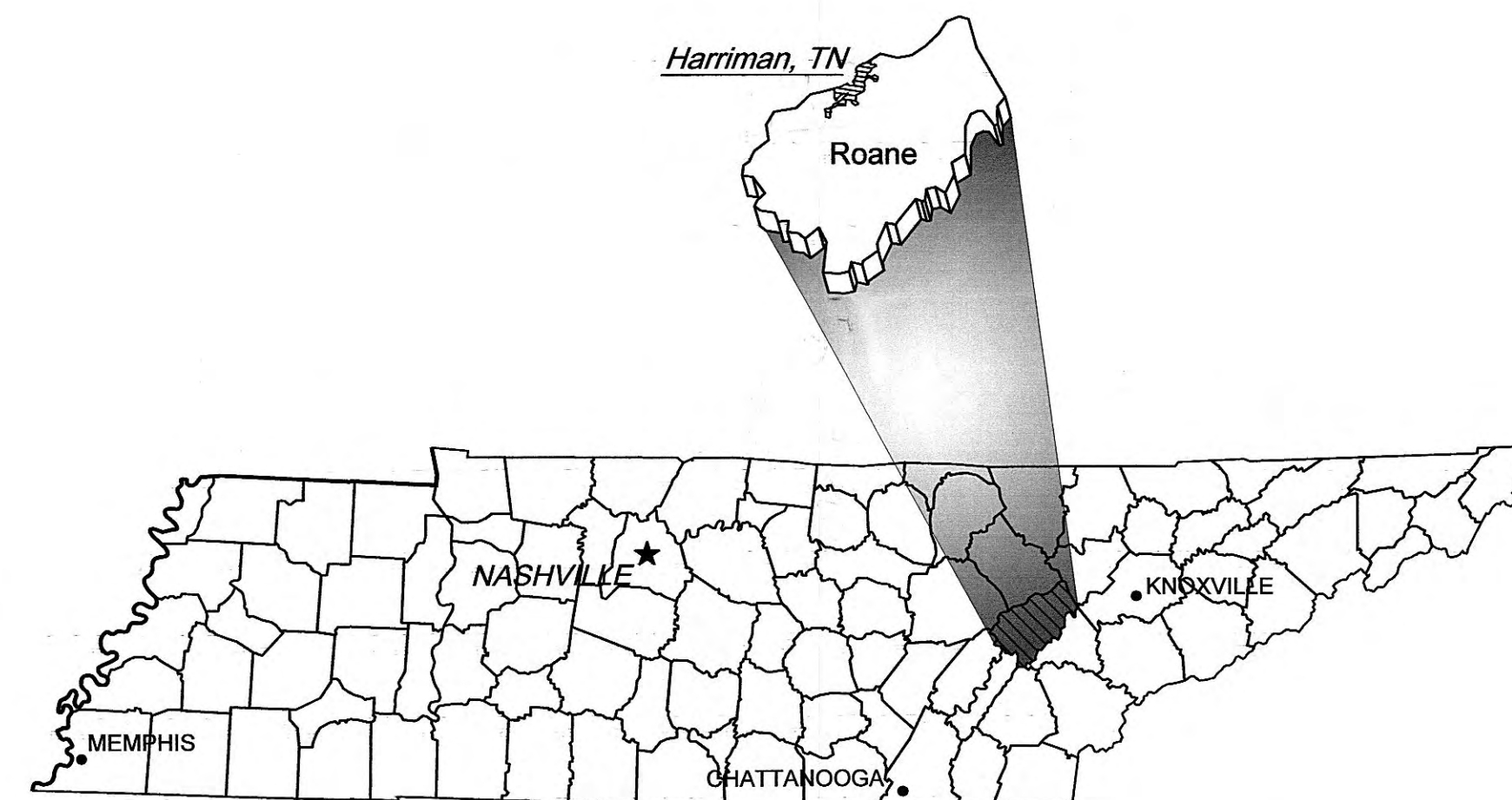


WASTEWATER SYSTEM IMPROVEMENTS SEWER SYSTEM REHABILITATION

CITY OF HARRIMAN, TENNESSEE CONTRACT S12-02



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G-0-001	PROJECT LOCATION - SHEET LAYOUT PLAN, LEGENDS AND GENERAL NOTES
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C-0-601	SEWER LINE REHABILITATION TABULATION OF WORK
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C-0-501	STANDARD SEWER REHABILITATION DETAILS
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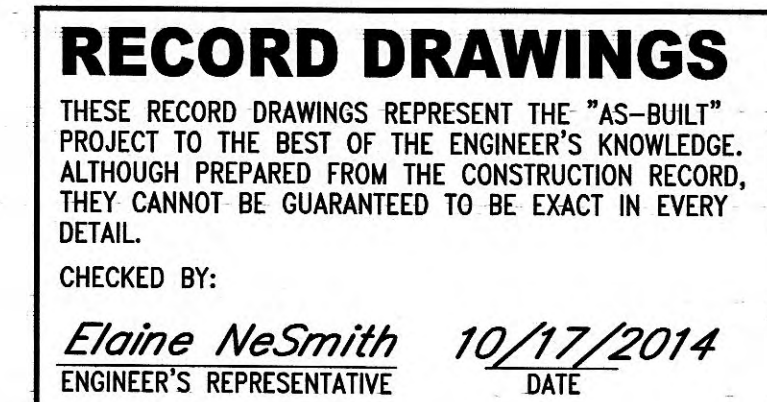


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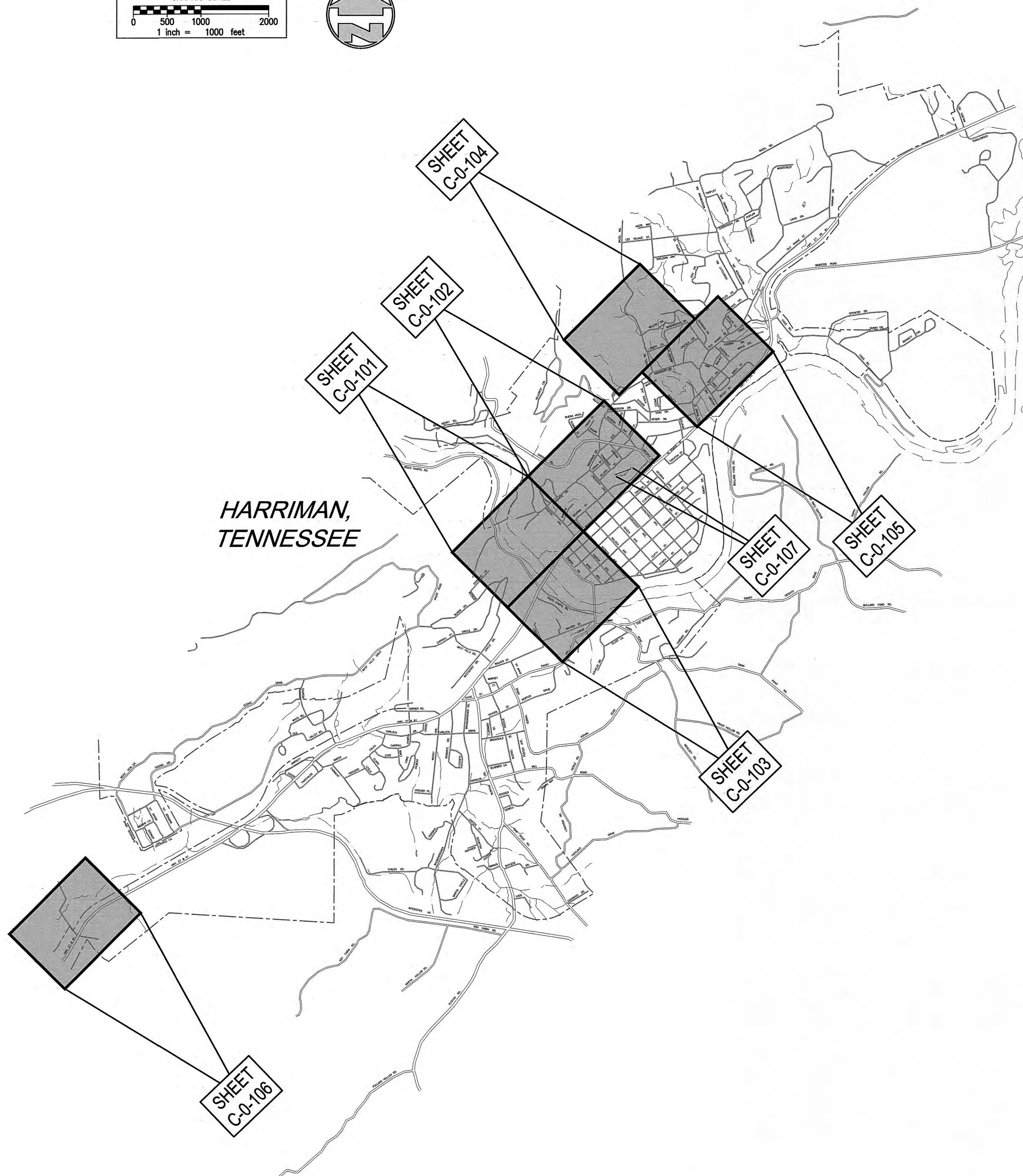
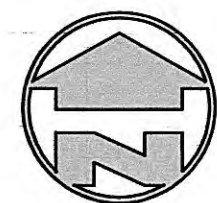
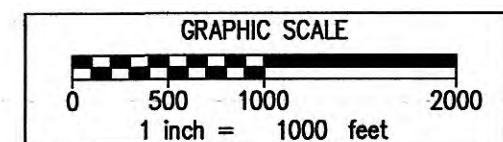
801 CORPORATE DRIVE - LEXINGTON, KY. 40503
PH. (859)223-3999 FAX (859)223-8917
LEXINGTON LOUISVILLE NASHVILLE INDIANAPOLIS
FORT MITCHELL KNOXVILLE ARLINGTON



DECEMBER 2012



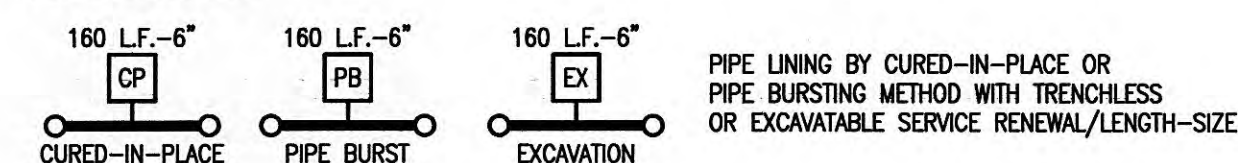
GRW PROJECT NO. 3947-01



PROJECT LOCATION - SHEET LAYOUT PLAN

SEWER REHABILITATION STANDARD LEGEND

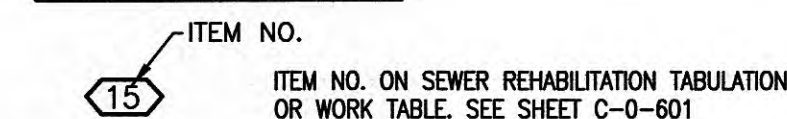
PIPE LINING



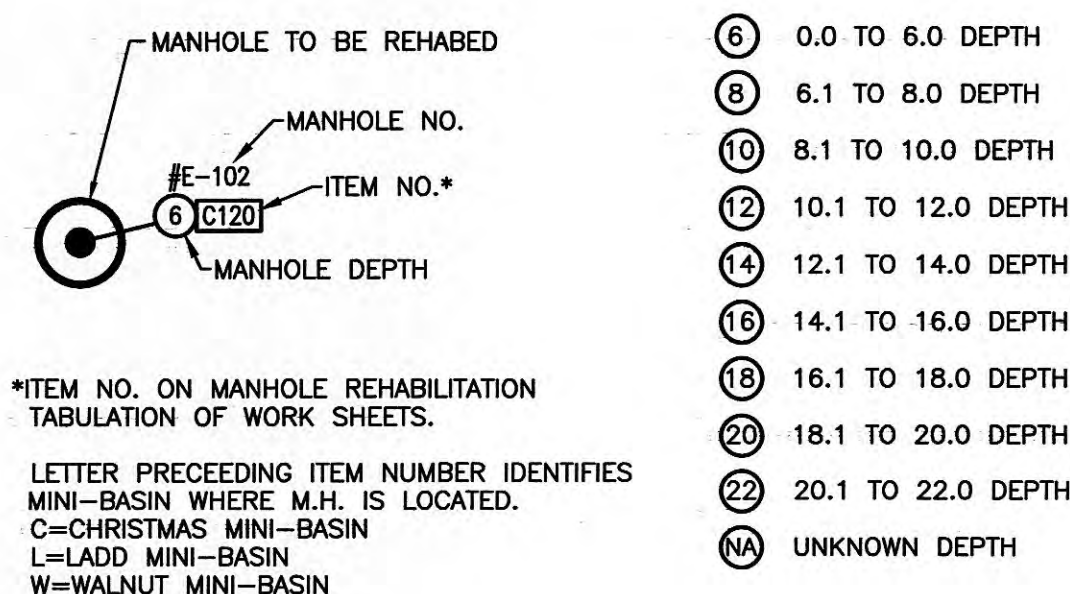
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REFERENCE NUMBER



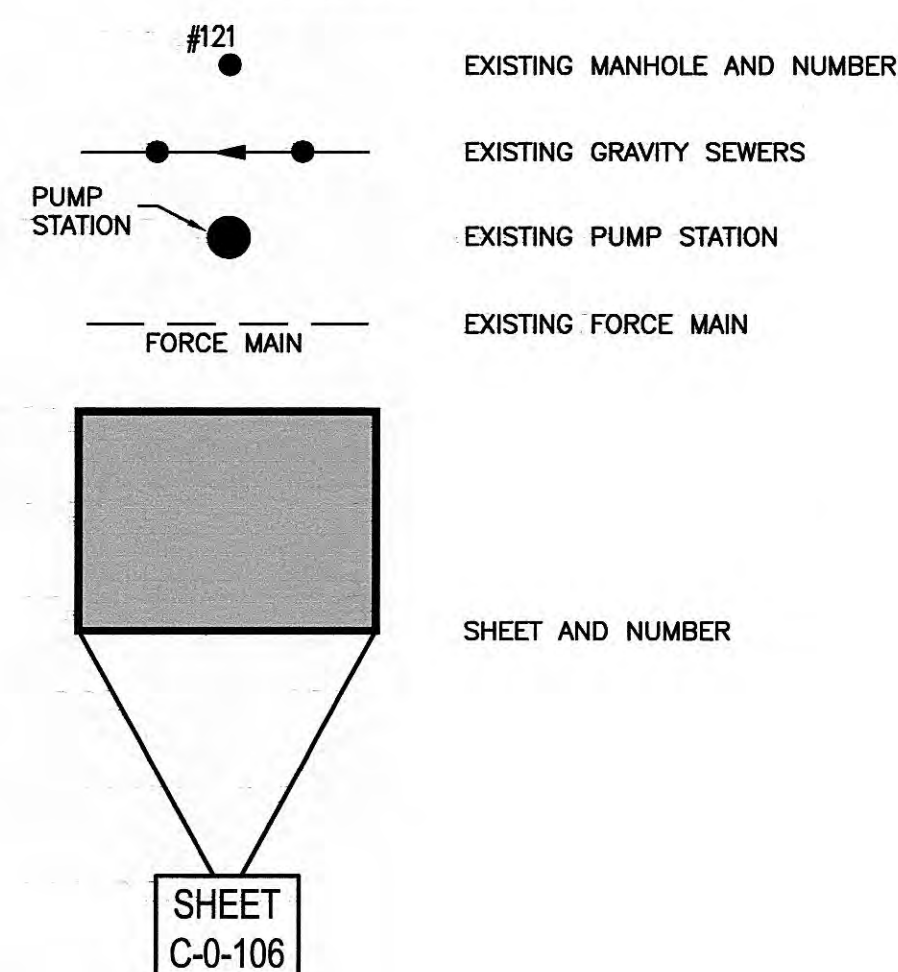
MANHOLE REHABILITATION



ABBREVIATIONS

- PP - PRIVATE PROPERTY
PE - POLYETHYLENE
PVC - POLYVINYL CHLORIDE
SL - SLOPLINING
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

- 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
- CONTRACTOR SHALL NOT PLACE ANY VALVES OR OTHER ABOVE GRADE DEVICES IN ANY DITCH LINE ON STATE HIGHWAY RIGHT OF WAY.
- 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 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.
- 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.
- WATER LINE INFORMATION PROVIDED BY THE UTILITY DISTRICT.
- 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.
- 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.
- EXISTING SANITARY SEWER MAPS PROVIDED BY CITY OF HARRIMAN, TN LINE SIZES ARE NOTED IN SEWER REHABILITATION TABULATION OF WORK CHARTS.

RECORD DRAWINGS

THESE RECORD DRAWINGS REPRESENT THE "AS-BUILT" PROJECT TO THE BEST OF THE ENGINEER'S KNOWLEDGE. ALTHOUGH PREPARED FROM THE CONSTRUCTION RECORD, THEY CANNOT BE GUARANTEED TO BE EXACT IN EVERY DETAIL.

CHECKED BY:

Elaine NeSmith 10/17/2014
ENGINEER'S REPRESENTATIVE DATE



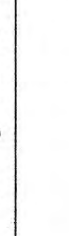
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PROJECT LOCATION - SHEET LAYOUT PLAN, LEGENDS AND GENERAL NOTES SEWER SYSTEM REHABILITATION CITY OF HARRIMAN, TENNESSEE

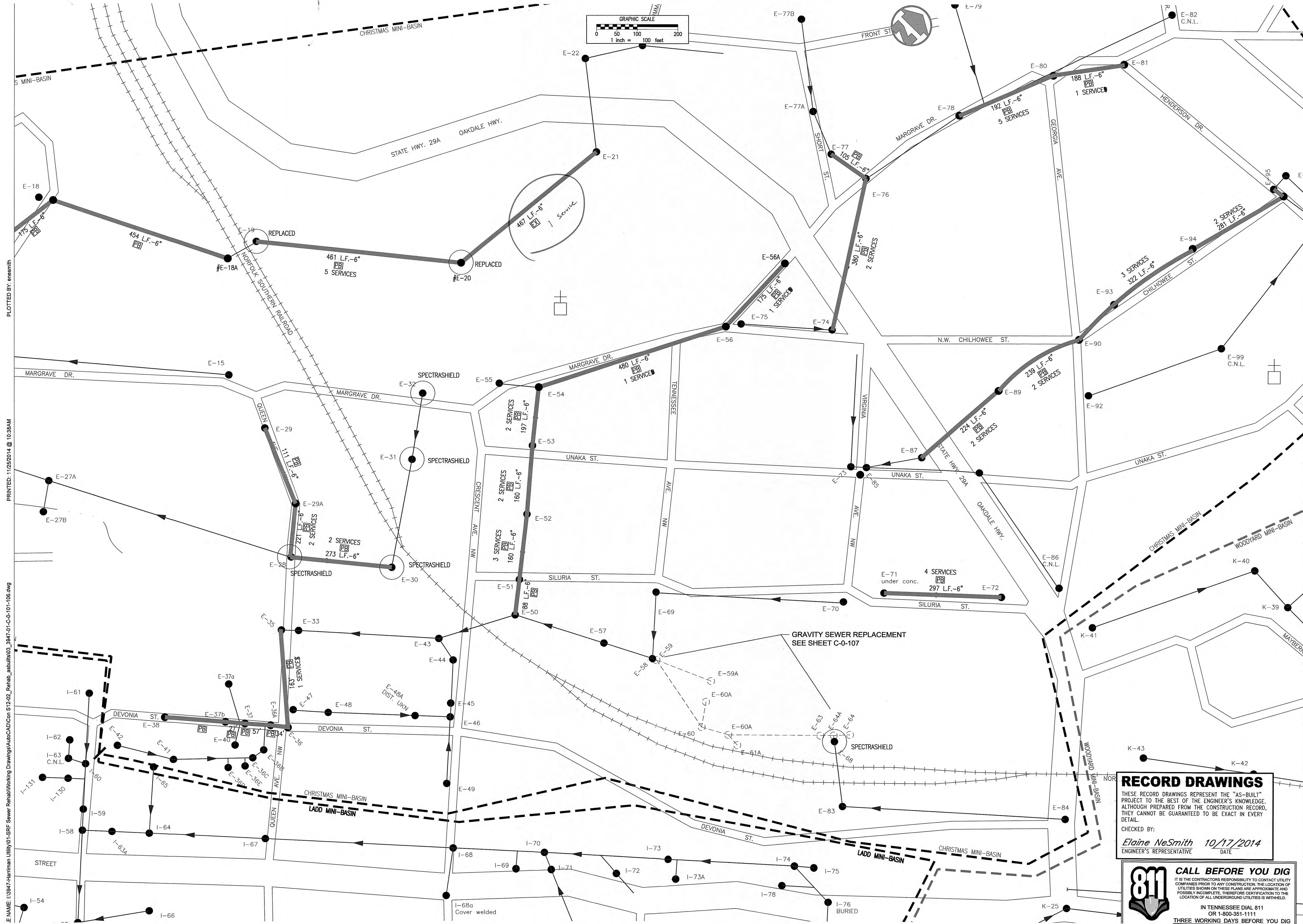
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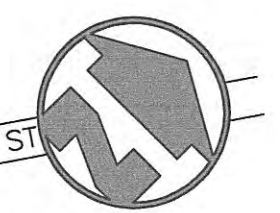
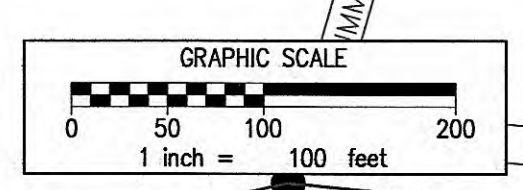
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PLOTTED BY: enasmith
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E NAME: I:\3947-Harriman Utility\SRF Sewer Rehab\Working Drawings\AutoCAD\Con S12.02_Rehab_sabulits03_3947-01-C-0-101-108.dwg



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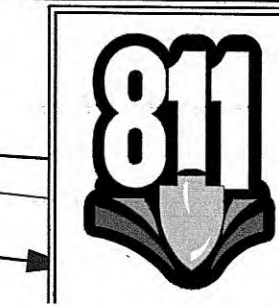
SEWER COLLECTION SYSTEM
REHABILITATION PLAN
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

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SHEET NO.: C-0-102

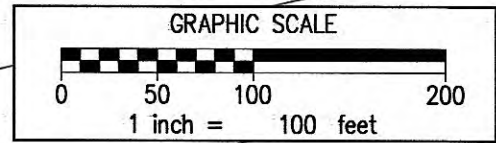
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ENGINEER'S REPRESENTATIVE DATE



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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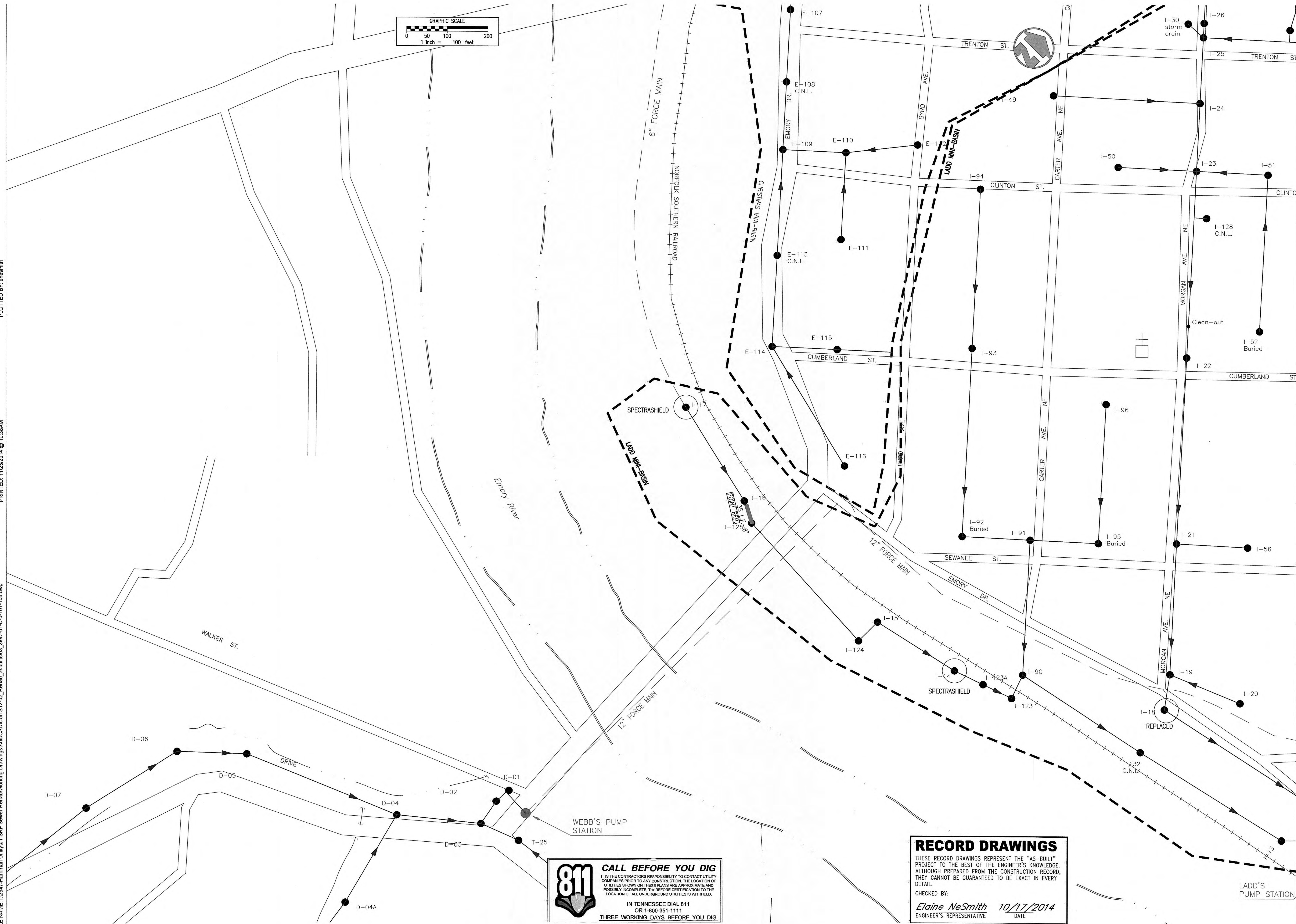
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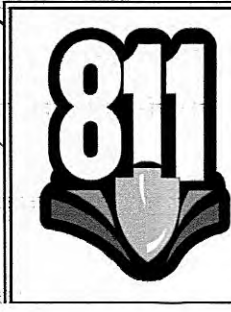


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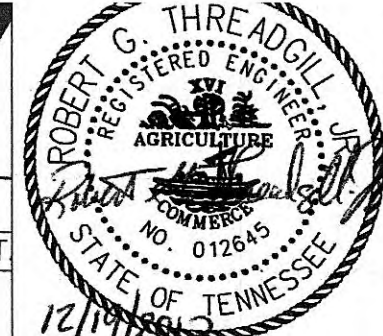
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**SEWER COLLECTION SYSTEM
REHABILITATION PLAN**
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

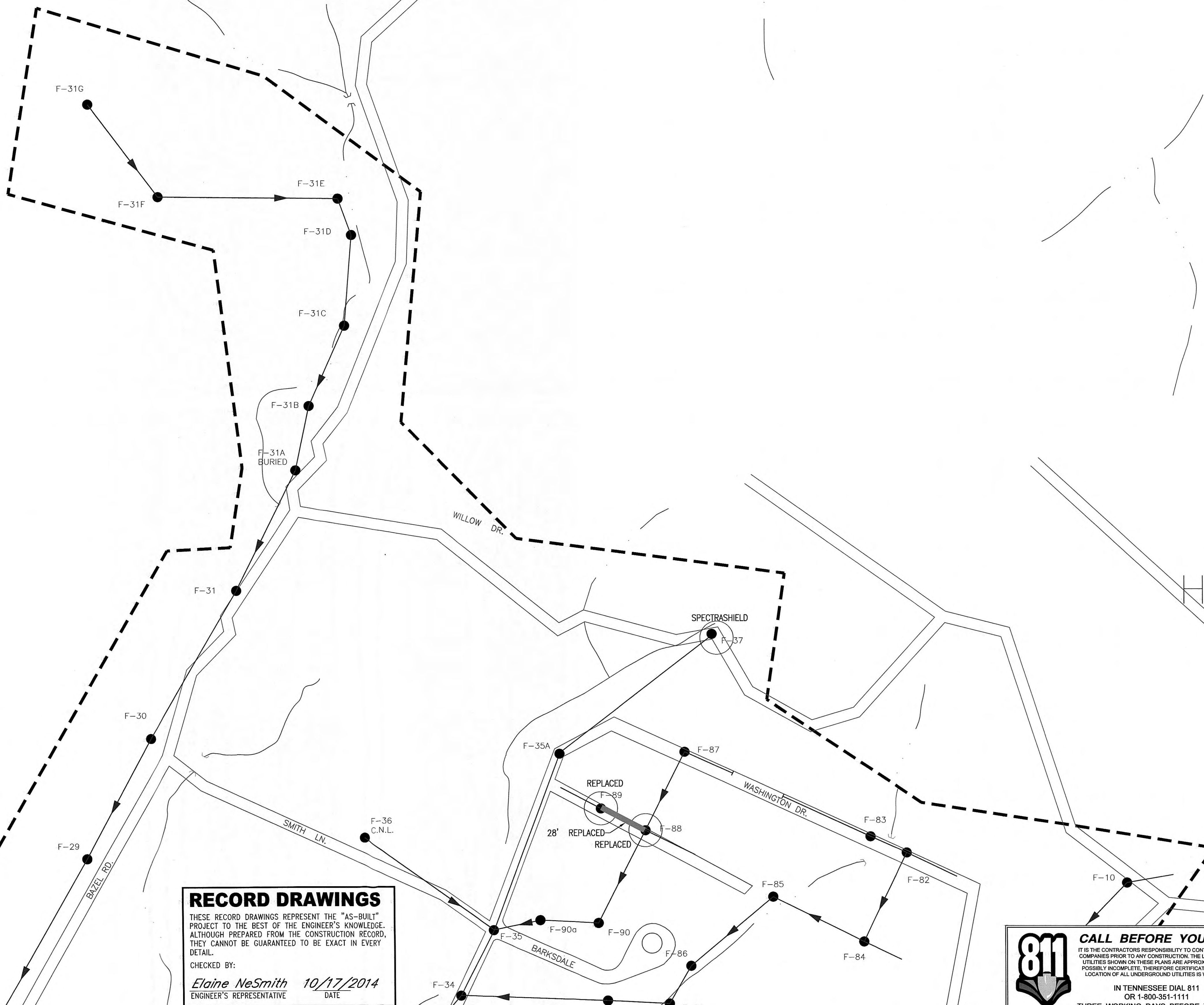
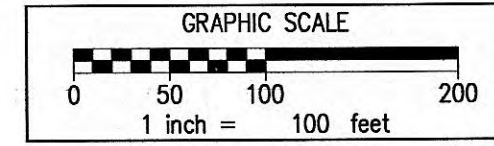
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ENGINEER'S REPRESENTATIVE DATE

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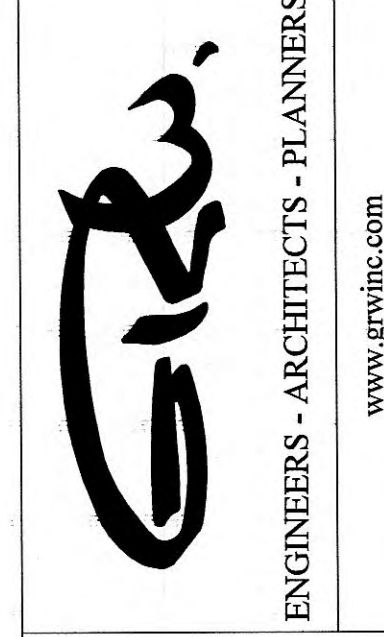
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RGT					

REVISIONS		BY		DATE	
NO.	DESCRIPTION				

DATE: DECEMBER 2012
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SHEET NO. C-0-104



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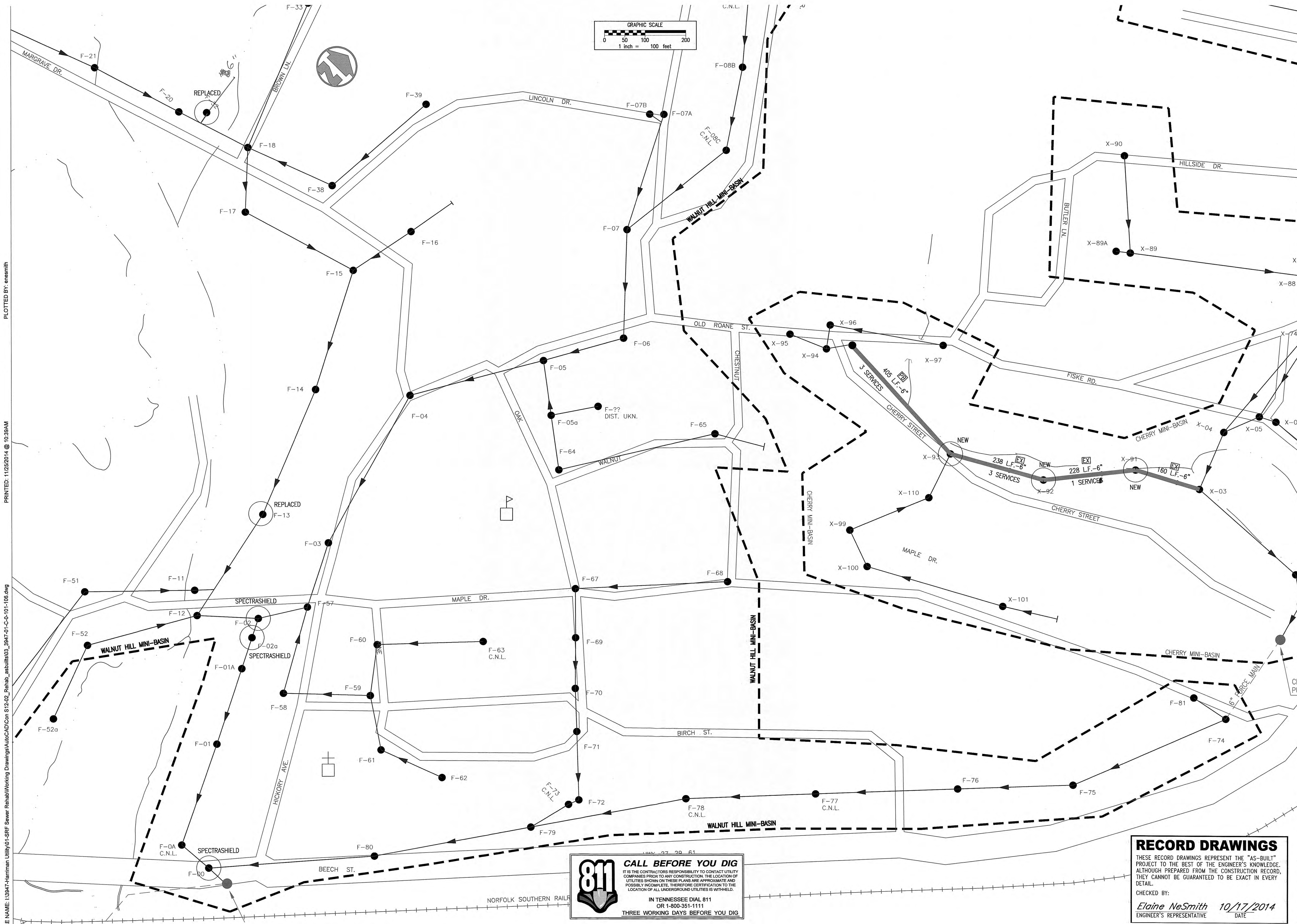
**SEWER COLLECTION SYSTEM
REHABILITATION PLAN
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE**

CONTRACT DRAWING

PLOTTED BY: ensmith

PRINTED: 11/25/2014 @ 10:39AM

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10/17/2014
DATE

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DATE: DECEMBER 2012

SCALE: 1" = 100'

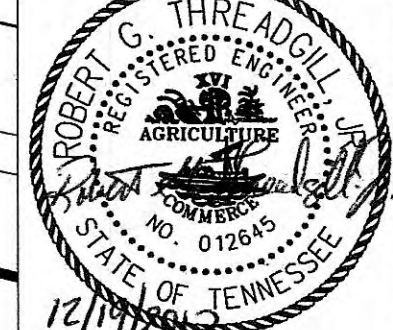
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SEWER COLLECTION SYSTEM
REHABILITATION PLAN
SEWER SYSTEM REHABILITATION
CITY OF HARRIMAN, TENNESSEE

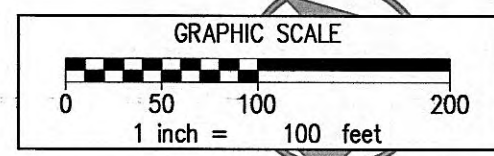
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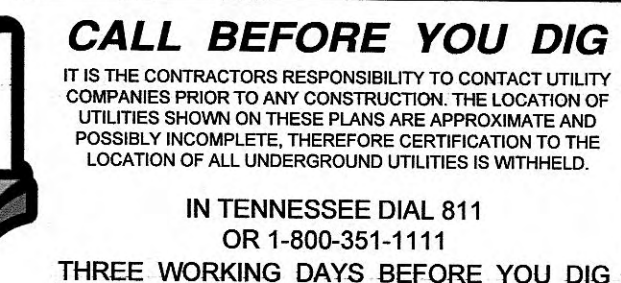
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SHEET NO. _____

C-0-106

SEWER COLLECTION SYSTEM REHABILITATION PLAN

SEWER SYSTEM REHABILITATION CITY OF HARRIMAN, TENNESSEE

GRW PROJECT NO. 3947-01

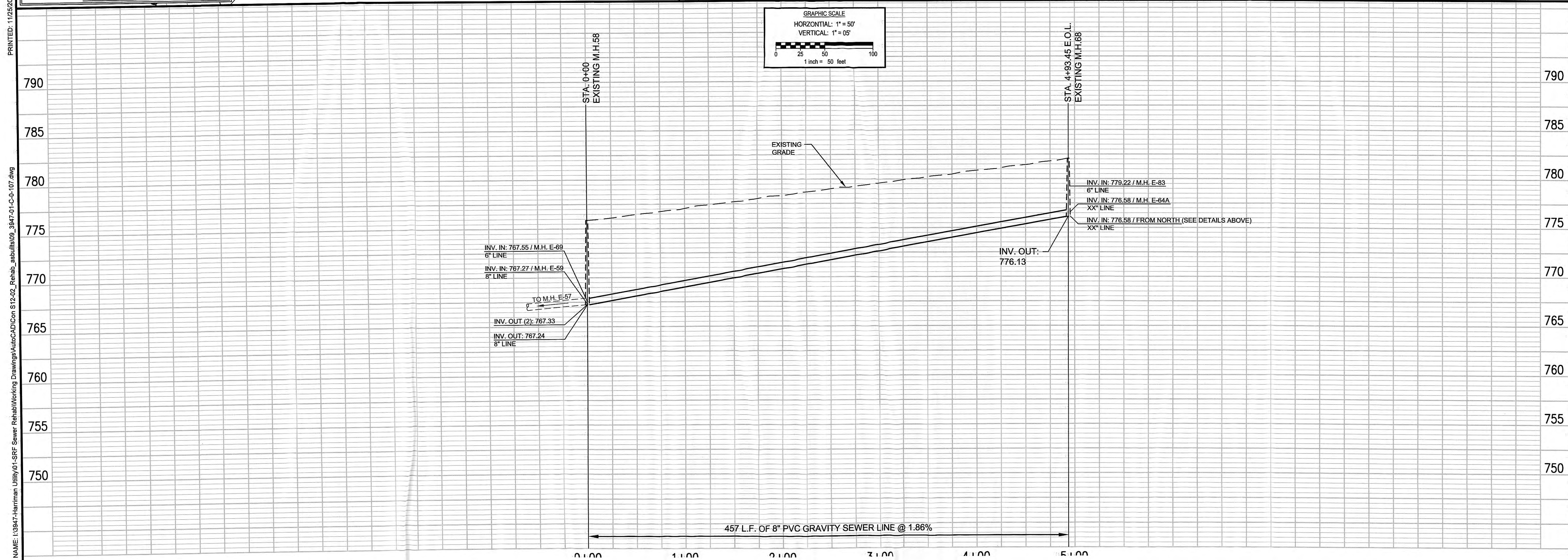
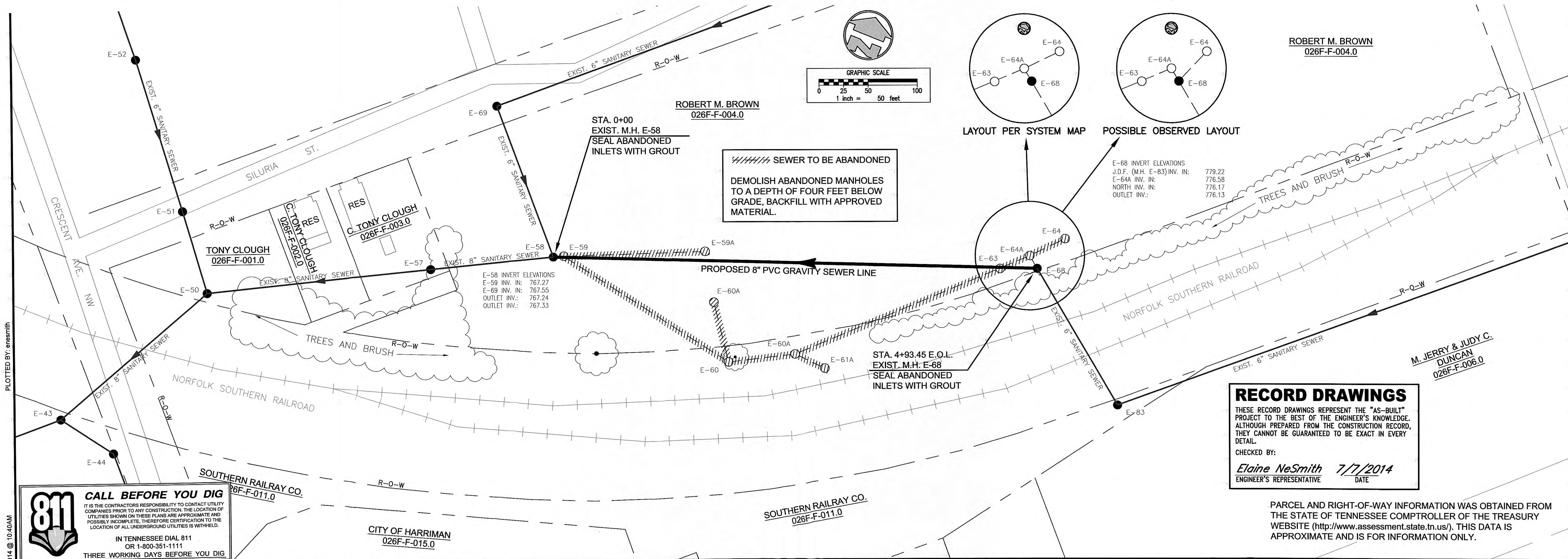
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PROPOSED REPLACEMENT GRAVITY SEWER

SEWER SYSTEM REHABILITATION

CITY OF HARRIMAN, TENNESSEE

CONTRACT DRAWING

GRW PROJECT NO. 3947-01

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RG	RG	DM	DM	RG	RG

REVISIONS		DATE		DESCRIPTION	
NO	NO	NO	NO	NO	NO

DATE: DECEMBER 2012

SCALE: AS NOTED

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