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PERCENT TOTAL PERCENT DESCRIPTION UNIT QUANTITY UTILITY PROJECT 1) 797-Ø1.15 | 10IN EPOXY COATED DIP FORCE MAIN 100% L.F. 0% 45 1 797-05.01 8IN DIP GRAVITY SEWER OFT-6FT DEPTH 100% L.F. 30 0% 0% 100% 1) 797-05.02 8IN DIP GRAVITY SEWER 6FT-12FT DEPTH L.F. 230 1) 797-05.03 8IN DIP GRAVITY SEWER 12FT-18FT DEPTH L.F. 0% 100% 105 797-05.09 12IN DIP GRAVITY SEWER OFT-6FT DEPTH 3.7% 96.3% L.F. 45 1) 797-05.10 12IN DIP GRAVITY SEWER 6FT-12FT DEPTH 7.3% L.F. 800 92.7% 797-05.11 12IN DIP GRAVITY SEWER 12FT-18FT DEPTH L.F. 165 12.5% 87.5% L.F. 730 0% 100% 797-05.51 8IN PVC GRAVITY SEWER OFT-6FT DEPTH L.F. 0% 35 100% L.F. 0% 797-05.52 8IN PVC GRAVITY SEWER 6FT-12FT DEPTH 1920 100% 797-05.53 8IN PVC GRAVITY SEWER 12FT-18FT DEPTH L.F. 515 0% 100% 797-05.60 12IN PVC GRAVITY SEWER 6FT-12FT DEPTH L.F. 170 6.8% 93.2% L.F. 797-06.62 BORE/JACK 12IN STEEL CASING PIPE-UNCON 195 0% 100% 797-06.64 BORE/JACK 16IN STEEL CASING PIPE-UNCON. 110 100% L.F. 0% 797-06.67 BORE/JACK 24IN STEEL CASING PIPE-UNCON. L.F. 100 0% 100% 797-06.89 OPEN CUT 12IN STEEL CASING PIPE 195 0% 100% L.F. 797-06.90 OPEN CUT 16IN STEEL CASING PIPE L.F. 110 0% 100% 797-06.93 OPEN CUT 24IN STEEL CASING PIPE 0% 100% L.F. 100 797-07.01 48IN MANHOLE OFT-4FT DEPTH EACH 0% 100% 797-07.03 48IN MANHOLE 6FT-8FT DEPTH EACH 0% 100% 797-07.04 48IN MANHOLE 8FT-10FT DEPTH EACH 0% 100% 797-07.05 48IN MANHOLE 10FT-12FT DEPTH EACH 100% 0% 797-07.06 48IN MANHOLE 12FT-14FT DEPTH EACH 0% 100% 5 797-07.56 MANHOLE DROP CONNECTION ASSEMBLY EACH 100% 0% 0% LB. 100% 760 797-08.05 6" PVC PIPE FOR SERVICE LATERAL L.F. | 700 0% 100% EACH 16 0% 100% EACH 797-10.02 CONNECT 8IN SEWER TO EXIST. MANHOLE 100% 0% 797-10.03 CONNECT 10-18IN SEWER TO EXIST. MANHOLE EACH 100% 3 0% EACH CONNECT TO 10IN FORCE MAIN 0% 100% (8) 797-11.15 48" MH ADJUSTMENT INCREASE HEIGHT V.L.F. 0% 100% 1 9 797-11.25 RETIRE IN PLACE 48" MANHOLE EACH 14 0% 100%

(1) INCLUDES ALL MATERIALS. LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, PIPE FUSION, APPUTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE (2) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, ANY OTHER APPURTENANCE

TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE

(3) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, STONE BACKFILL,

(DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL,

(5) INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS. OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES

(7) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN. SEWER LINE. PUMP STATION. OR MANHOLE AS

(8) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INCREASING OR DECREASING HEIGHT OF MANHOLE TO FINISHED ROAD GRADE, INCLUDING BUT NOT LIMITED

(9) INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE. REMOVAL OF NECESSARY BARREL SECTIONS

GENERAL NOTES:

1. CONSTRUCTION OF THE SANITARY SEWER SHALL CONFORM TO THE UTILITY SPECIFICATIONS AND INFORMATION CONTAINED HEREIN. 2. ALL WORK SHALL BE PERFORMED BY A TENNESSEE LICENSED UTILITY CONTRACTOR.

- OWNER. UTILITY SUPPORT METHODS WILL BE SUBMITTED PRIOR TO CONSTRUCTION FOR APPROVAL.
- SHALL BE ERECTED PRIOR TO REMOVAL OF PERMANENT STOP SIGNS.
- FROM THE GOVERNING ENTITY (TDOT, CITY, COUNTY, ETC ...).
- THE COURSE OF WORK. 7. SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET AS DIRECTED BY THE RESIDENT PROJECT REPRESENATIVE.
- REPRESENATIVE PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL PROVIDE SUPPORT OF EXISTING UTILITIES TO MAINTAIN SERVICE AND INTEGRITY.
- 12. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION.
- 14. CONTRACTOR SHALL NOTIFY THE RESIDENT PROJECT REPRESENATIVE 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 15. LOCATION OF EXISTING RIGHT-OF-WAY (R.O.W.) LINES AND PROPERTY LINES ARE APPROXIMATE.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.
- 17. TREES THAT HAVE BEEN DAMAGED OR REMOVED, ASPHALT AND OTHER CONSTRUCTION DEBRIS SHALL BE REMOVED. OFFSITE BY CONTRACTOR.
- 18. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO AND THROUGH EXISTING DRAINAGE FACILITIES. ANY CONSTRUCTION AROUND.
- ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 20. WHEN EXCAVATION MUST OCCUR NEAR A UTILITY POLE, THE CONTRACTOR SHALL EMPLOY A LICENSED ELECTRICAL CONTRACTOR TO GUY. WELL AS THE NAME OF THE ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK.
- 21. SEWER LINE CROSSINGS UNDER S.R. 29 SHALL BE ENCASED WITH STEEL CASING AND BE INSTALLED BY OPEN CUT OR BORE AND JACK METHOD PER STATE RESIDENT PROJECT REPRESENTATIVE'S DISCRETION.
- 22. ALL INCIDENTAL WORK, INCLUDING LABOR AND MATERIALS, NECESSARY TO COMPLETE THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS, FOR WHICH A SEPERATE PAY ITEM IS NOT SHOWN SHALL BE PERFORMED BY THE CONTRACTOR AND NO ADDITIONAL PAYMENT SHALL BE MADE. THE COST OF THIS WORK SHALL BE MERGED INTO THE UNIT PRICES BID FOR THE BID ITEMS SHOWN.

REVISED QUANTITIES TO ADD 8" DIA. SANITARY SEWER LINES J, K, AND L, 12" STEEL CASING, REFLECT MATERIAL CHANGES 6", 8", AND 12" PVC TO DIP. ¬

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-29(58)	U3-1
		73035-3209-14	
		6	-

ROANE CO.

REV. 12-23-13: REVISED QUANTITIES TO ADD 8" DIA. SAN SEWER LINES J, K, AND L, 12" STEEL CASING, ADDED SHEET U3-9.

3. UNDERGROUND UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, GAS, STEAM PIPING/DUCT WORK, ELECTRIC, COMMUNICATION SERVICES, STREET LIGHTING AND TRAFFIC DETECTOR LOOPS. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL SUCH FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL SUCH FACILITIES THAT ARE DAMAGED DURING CONSTRUCTION. PAYMENT FOR LOCATING, PROTECTING, COORDINATING AND RE-PAIRING EXISTING FACILITIES WILL BE INCLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE. ALL REPAIRS SHALL BE DONE IN ACCORDANCE WITH STANDARDS AND REQUIREMENTS OF THE UTILITY'S

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE SIGNAGE, BARRICADES, AND LIGHTS FOR PROTECTION OF TRAFFIC. ANY EXISTING ROAD SIGN REMOVED FOR CONSTRUCTION SHALL BE REPLACED BY THE END OF THE WORKING DAY. TEMPORARY STOP SIGNS

THE CONTRACTOR SHALL NOT CLOSE OR BLOCK ANY HIGHWAY, STREET, OR ROADWAY WITHOUT FIRST OBTAINING ALL REQUIRED PERMITS

6. THE CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING

PRIOR TO DISTURBANCE, CONTACT THE STATE RESIDENT PROJECT REPRESENATIVE FOR MONUMENT INFORMATION.

8. CONTRACTOR SHALL VERIFY WORK IN FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT PROJECT

9. THE EXISTING UTILITIES SHOWN AND INDICATED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UNDERGROUND UTILITIES, ALL COSTS ASSOCIATED WITH POTHOLING WILL BE INCLUDED IN OTHER ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE THEREFORE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DISRUPTION OF UTILITY SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF

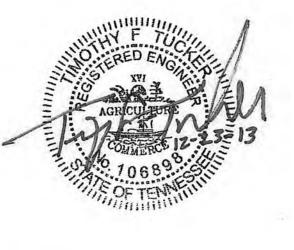
11. THE CONTRACTOR SHALL NEATLY SAW CUT ALL ROADWAYS AND DRIVEWAYS PRIOR TO INSTALLING A PERMANENT PAVEMENT REPAIR.

13. INDICATED SCALES ARE BASED ON FULL SIZE DRAWINGS; IF DRAWINGS ARE REDUCED, SCALES MUST BE ADJUSTED ACCORDINGLY.

THROUGH OR IN DRAINAGE PATHS SHALL NOT ALTER THE FLOW PATHS FROM EXISTING AFTER CONSTRUCTION IS COMPLETE. 19. CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF

ANCHOR, BRACE, MECHANICALLYHOLD, ETC., THE POLE THROUGHOUT THE EXCAVATION PROCESS AND UNTIL THE AREA CAN BE PROPERLY BACKFILLED AND COMPACTED TO PREVENT THE MOVEMENT OF THE POLE. IF THE EXCAVATION AFFECTS AN ANCHOR, THE POLE WILL NEED TO BE STABILIZED IN A SIMILAR MANNER UNTIL THE ANCHOR CAN BE REINSTALLED IN THE EXACT LOCATION. CONTRACTOR SHALL NOTIFY THE UTILITY OWNER NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO EXCAVATION WITHIN TWENTY (20) FEET OF ANY POLE AND SHALL PROVIDE INFORMATION TO THE UTILITY OWNER PERTAINING TO THE METHOD THAT IS TO BE USED TO STABILIZE THE POLE. AS

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8" W	EXIST. WATER LINE	
—— P/T —	- EXIST. POWER LINE	
3" G	EXIST. NATURAL GAS	
	EXIST. STORM SEWER	
	- EXIST. STREAM	
W.M.	EXIST. WATER METER	
G.M.	EXIST. GAS METER	
⊔B	EXIST. MAILBOX	
A	EXIST. SEWER MANHOLE	
U U	(TO BE RETIRED)	



HARRIMAN

UTILITY

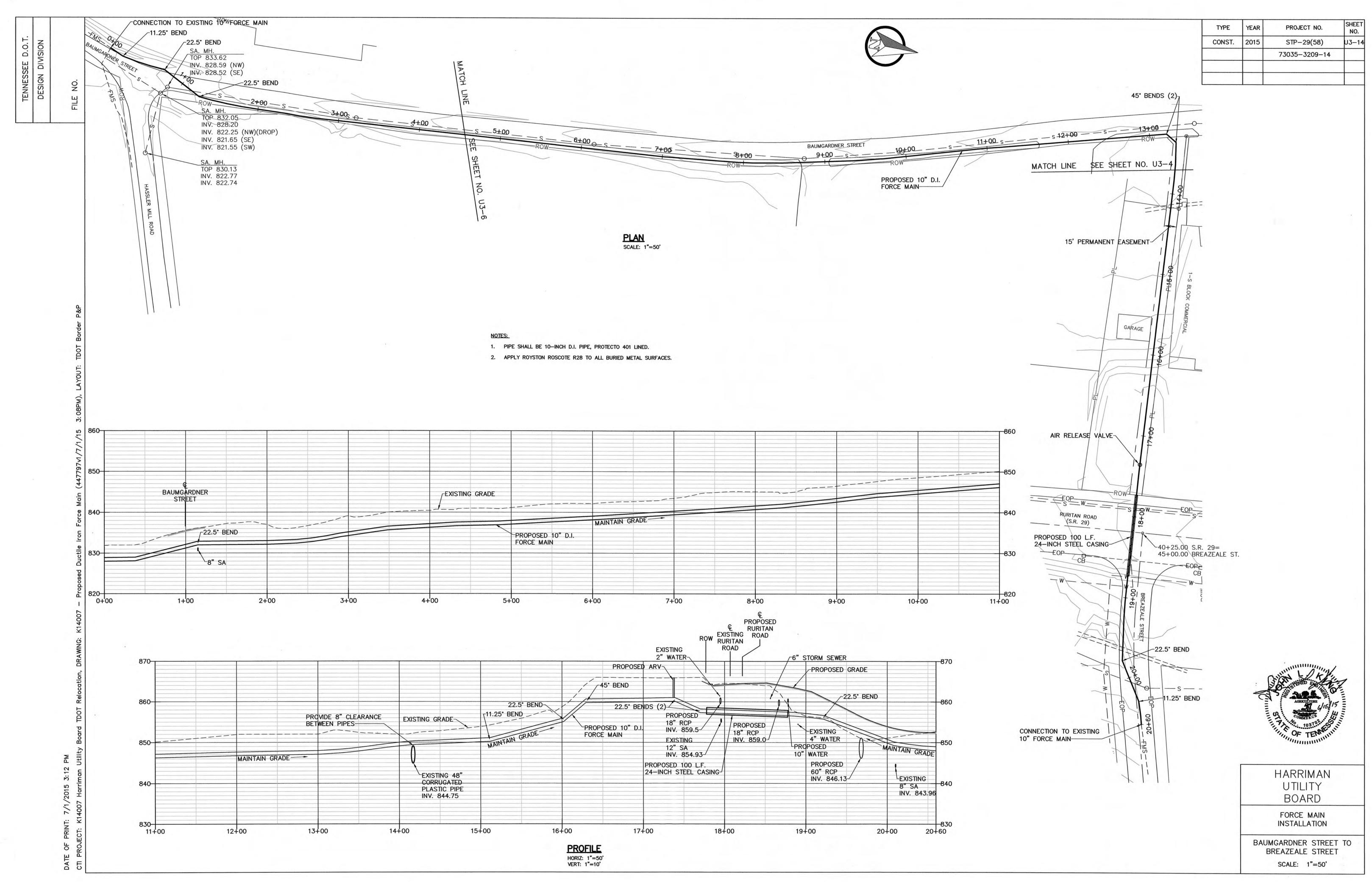
BOARD

SANITARY

SEWER LINE

RELOCATION

ESTIMATED QUANTITIES



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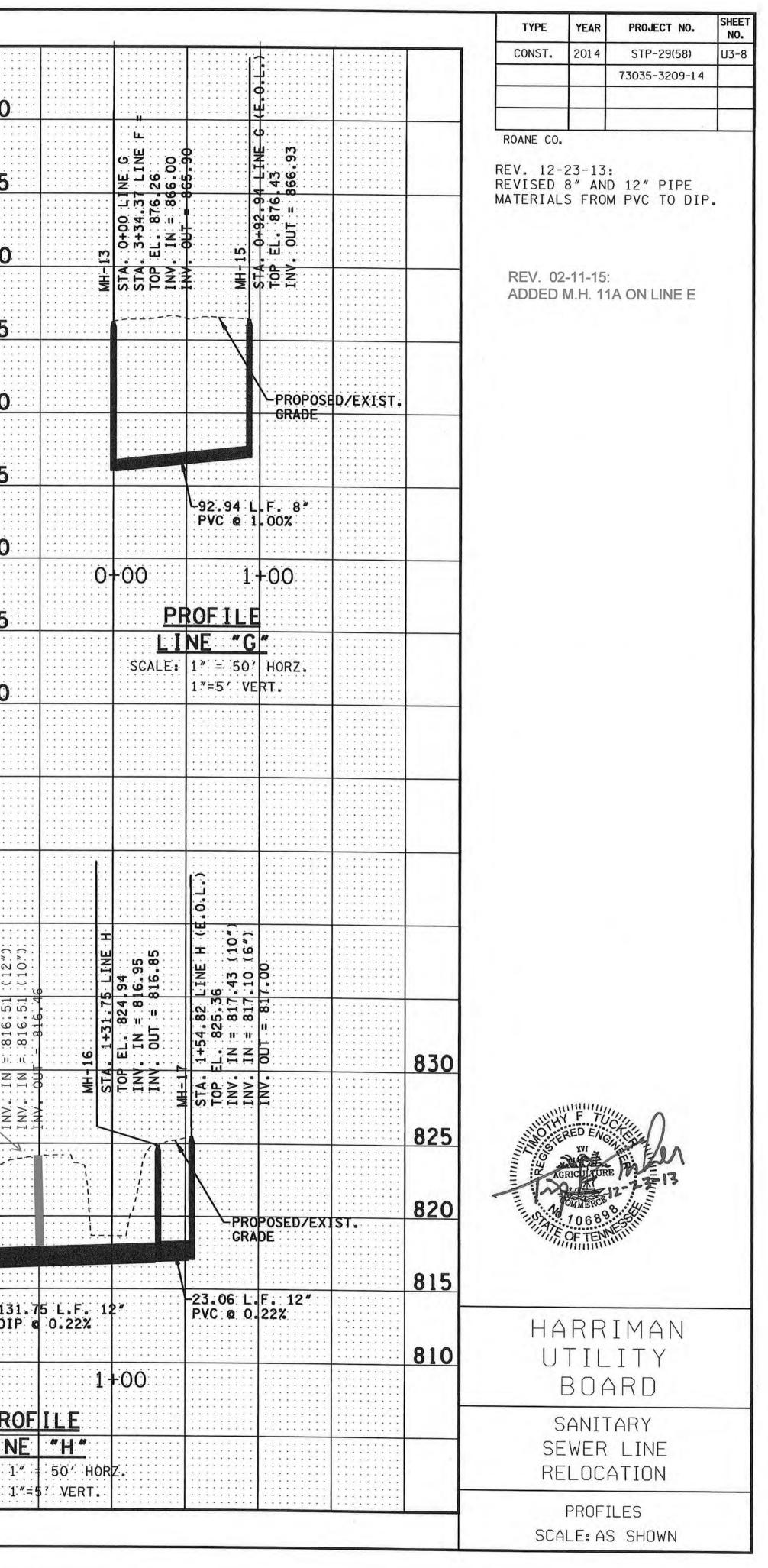
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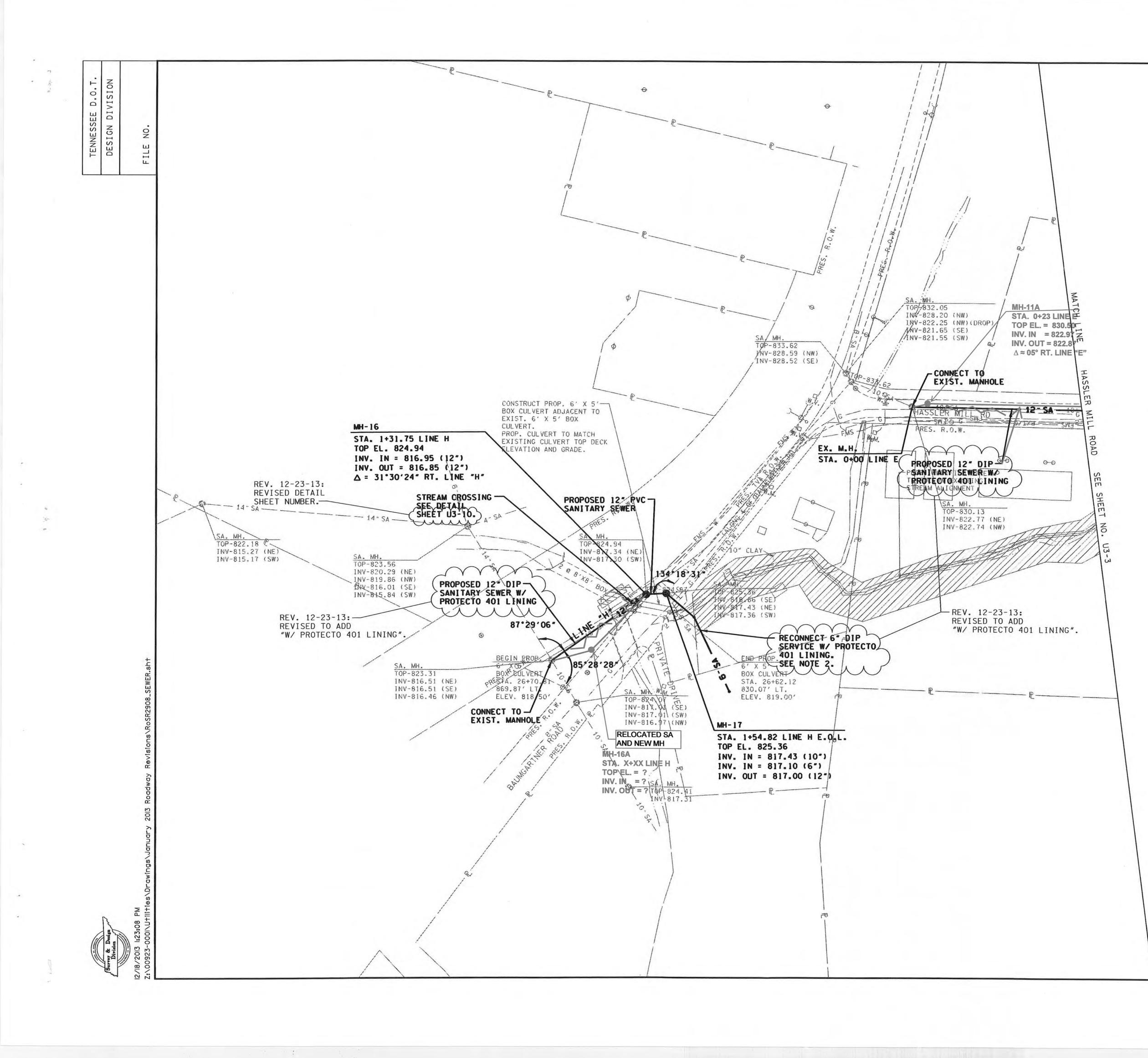


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860 860 855 855 855 845 840 8	Image: Solution of the second state	PRIOR TO CONSTRUCTI PRIOR TO CONSTRUCTI	PROPOSED/EXIST. GRADE 	VIII 988 - CRADE- UIII 988 - CRADE- UIII 988 - CRADE- UIII 988 - CRADE- 00000 - CO -	ZEXIST. Image: Second seco	870 REVISIONS BY JOHI CTI ENGINEERS, INC. 865 865 860 860 855 70689 855 HARRI UTILI 850 UTILI 845 SANITA

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	TYPE	YEAR	PROJECT NO.	SHEET NO.
	CONST.	2014	STP-29(58)	U3-6
L			73035-3209-14	
-				
-	ROANE CO.	1 1		-

REV. 12-23-13: REVISED DETAIL SHEET NUMBER, ADDED PROTECTO 401 LINING TO DIP.

REV. 2-11-15 REVISED LOCATION OF 12" DIP SANITARY SEWER EAST OF MH-7.



NOTE:

- 1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF PRIVATE SEWER LATERALS PRIOR TO CONSTRUCTION TO ENSURE PROPER GRADE & LOCATION OF SEWER LATERAL EXTENSION TO PROPOSED SEWER MAIN.
- 2. CONTRACTOR TO REROUTE 6" DIP SERVICE LATERAL AROUND PROPOSED BOX CULVERT. INSTALL CLEANOUTS AT BENDS.

NOTE: NO CONSTRUCTION ACTIVITY OF ANY KIND IS TO BE ALLOWED ON TRACT #100 -TENNESSEE VALLEY AUTHORITY (TVA)

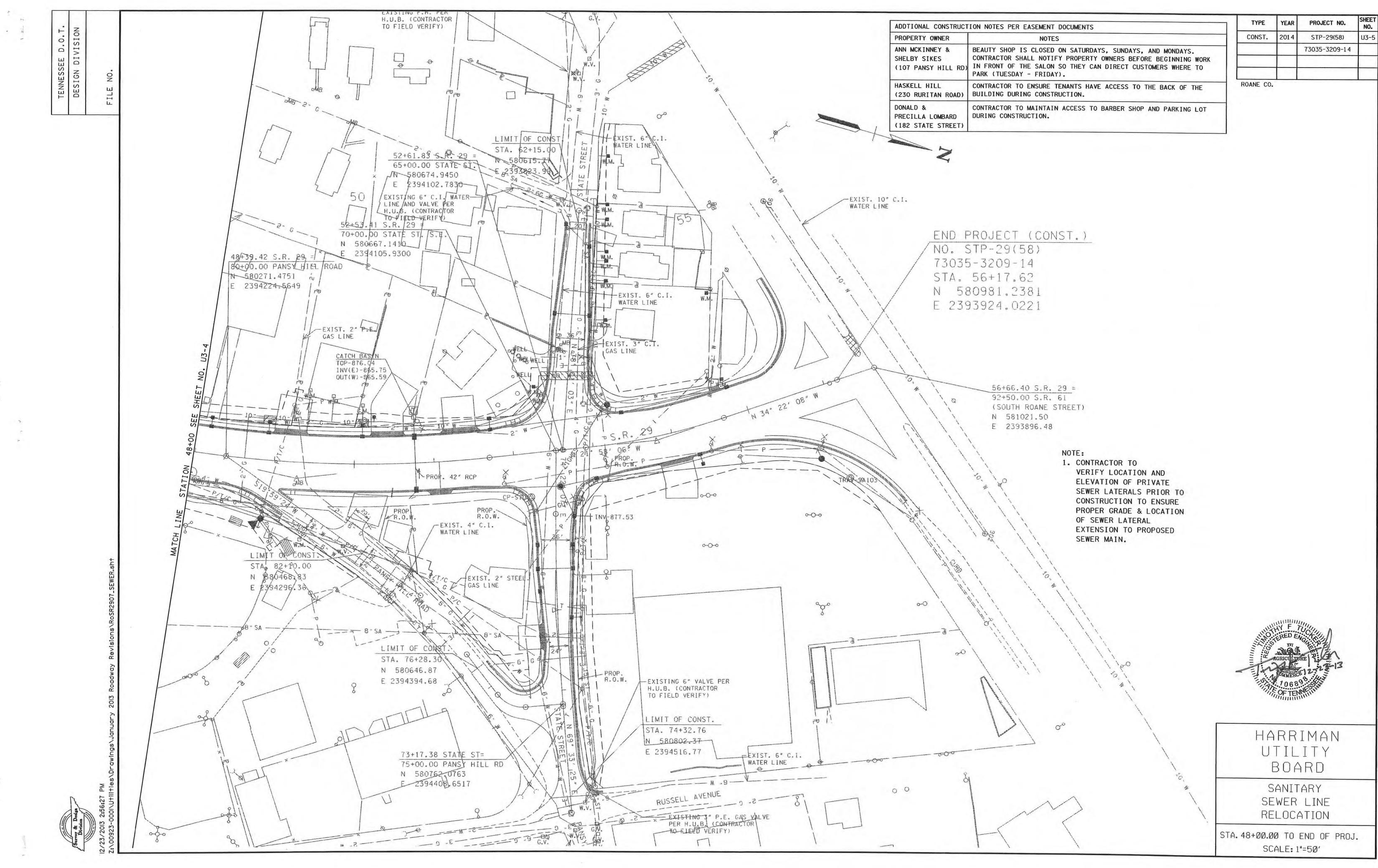
REVISIONS BY JOHN KING, PE, CTI ENGINEERS, INC.



HARRIMAN UTILITY BOARD

SANITARY SEWER LINE RELOCATION

HASSLER MILL ROAD AND BAUMGARTNER ROAD SCALE: 1"=50'



ION NOTES PER EASEMENT DOCUMENTS	TYPE	YEAR	
NOTES	CONST.	2014	
BEAUTY SHOP IS CLOSED ON SATURDAYS, SUNDAYS, AND MONDAYS. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS BEFORE BEGINNING WORK IN FRONT OF THE SALON SO THEY CAN DIRECT CUSTOMERS WHERE TO PARK (TUESDAY - FRIDAY).			
CONTRACTOR TO ENSURE TENANTS HAVE ACCESS TO THE BACK OF THE BUILDING DURING CONSTRUCTION.	ROANE CO.		
CONTRACTOR TO MAINTAIN ACCESS TO BARBER SHOP AND PARKING LOT DURING CONSTRUCTION.			

	TYPE	YEAR	PROJECT NO.	SHEET NO.
	CONST.	2014	STP-29(58)	U3-5
			73035-3209-14	
L				
L	ROANE CO.			

