TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

UTILITIES INDEX

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ESTIMATED UTILITY QUANTITIES

Project No. 1: 47023-3261-14

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	% Utility Betterment	%Project Public	%Project Private
1	797-05.01	8IN DIP GRAVITY SEWER 0FT-6FT DEPTH	LF	415		100.00%	
1	797-05.02	8IN DIP GRAVITY SEWER 6FT-12FT DEPTH	LF	7925		100.00%	
1	797-05.03	8IN DIP GRAVITY SEWER 12FT-18FT DEPTH	LF	1190		100.00%	
1	797-05.04	8IN DIP GRAVITY SEWER >18FT DEPTH	LF	195		100.00%	
1	797-05.52	8IN PVC GRAVITY SEWER 6FT-12FT DEPTH	LF	480		100.00%	
1	797-05.53	8IN PVC GRAVITY SEWER 12FT-18FT DEPTH	LF	300		100.00%	
1	797-05.18	18IN DIP GRAVITY SEWER 6FT-12FT DEPTH	LF	61		100.00%	
	797-05.39	8IN CURED IN PLACE PIPE (CIPP)	LF	199		100.00%	
1	797-05.94	36IN FSP GRAVITY SEWER >18FT DEPTH	LF	330		100.00%	
4	797-07.02	48IN MANHOLE 4FT-6FT DEPTH	EA	4		100.00%	
4	797-07.03	48IN MANHOLE 6FT-8FT DEPTH	EA	16		100.00%	
4	797-07.04	48IN MANHOLE 8FT-10FT DEPTH	EA	22		100.00%	
4	797-07.05	48IN MANHOLE 10FT-12FT DEPTH	EA	15		100.00%	
4	797-07.06	48IN MANHOLE 12FT-14FT DEPTH	EA	3		100.00%	
4	797-07.08	48IN MANHOLE 16FT-20FT DEPTH	EA	2		100.00%	
4	797-07.31	72IN MANHOLE 20FT-24FT DEPTH	EA	2		100.00%	
4	797-07.32	72IN MANHOLE 24FT-28FT DEPTH	EA	3		100.00%	
4	797-07.33	72IN MANHOLE >28FT DEPTH	EA	1		100.00%	
4	797-07.54	96IN MANHOLE 24FT-28FT DEPTH	EA	1		100.00%	
6	797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EA	2		100.00%	
3	797-10.06	CONNECT 6" LATERAL TO SEWER LINE	EA	84		100.00%	
1	797-08.05	6" PVC PIPE FOR SEWER LATERAL	LF	3030		100.00%	
6	797-08.08	6" CLEAN OUT ASSEMBLY	EA	90		100.00%	
3	797-10.02	CONNECT 8IN SEWER TO EXIST MANHOLE	EA	2		100.00%	
3	797-10.09	CONNECT EX. 8IN SEWER TO NEW MANHOLE	EA	18		100.00%	
3	797-10.11	CONNECT EX. >18IN SEWER TO NEW MANHOLE	EA	3		100.00%	
12	797-11.25	RETIREIN PLACE 48" MANHOLE	EA	34		100.00%	
12	797-11.27	RETIREIN PLACE 72" MANHOLE	EA	2		100.00%	
9	797-11.31	RETIREIN PLACE EXISTING SEWER 8IN-14IN	LF	8400		100.00%	
9	797-11.37	RETIREIN PLACE EXISTING SEWER >24"	LF	240		100.00%	
8	797-11.38	BY PASS PUMPING	LS	1		100.00%	
	797-12.06	12IN STEEL CASING	LF	155		100.00%	

FOOTNOTES

1 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

3 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN, SEWER LINE, PUMP STATION, OR MANHOLE AS SPECIFIED ON PLANS, INCLUDING TRAFFIC CONTROL.

4 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER, AND TRAFFIC CONTROL.

6 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBILES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.

8 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED ON THE BID FORM

12 INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMOVAL OF NECESSARY BARRAL SECTIONS FOR PROPER GRADE AND STONE BACKFILL.

9 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

10 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 OPEN CUT ITEM.

12 INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMOVAL OF NECESSARY BARRAL SECTIONS FOR PROPER GRADE AND STONE BACKFILL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-1

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

UTILITY COMPANY CONTACT

KNOXVILLE UTILITIES BOARD
P.O. BOX 59017
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN. 37950
CONTACT: BILL GRADY - 865-558-2738

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

ESTIMATED QUANTITIES

2/4/2016
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-2

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

GENERAL NOTES:

1. ALL CORRESPONDENCE TO TDOT SHALL BE ADDRESSED TO TENNESSEE DEPARTMENT OF TRANSPORTATION, REGION 1, 7345 REGION LANE, KNOXVILLE, TENNESSEE 37914. A COPY OF ALL CORRESPONDENCE ADDRESSED TO TDOT SHALL BE COPIED TO THE UTILITY.
2. ALL CORRESPONDENCE, SUBMITTALS OR OTHER ITEMS ASSOCIATED WITH THE CONTRACT SHALL BE IDENTIFIED WITH THE PROJECT OWNER, PROJECT NAME, AND TDOT PIN NUMBER AS LISTED IN THE CONTRACT DOCUMENTS.
3. CLEARING AND CLEANING OF PROJECT SITE OF PLANT LIFE AND DEBRIS SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR.
4. ALL EROSION AND SEDIMENTATION CONTROL OF PROJECT SITE SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR AND IN ACCORDANCE WITH TDEC PERMITS. UTILITY CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WATER QUALITY PERMITS AND STORM WATER POLLUTION PREVENTION PLAN.
5. EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS MAINS AND SEWERS ARE INDICATED ON THE DRAWINGS TO THE EXTENT THAT IS SHOWN ON THE TDOT SUPPLIED DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR ACCURACY IS EXPRESSLY DISCLAIMED. CONTRACTOR SHALL CONTACT TENNESSEE ONE CALL (DIAL 811) FOR ACTUAL EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND SHALL NOT RELY UPON INFORMATION INDICATED ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS.
6. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REPAIRS AND RELATED EXPENSE.
7. ANY TEMPORARY OR PERMANENT PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE ROADWAY CONTRACT.
8. THE GENERAL NOTES AND SPECIFICATIONS CONTAIN MINIMUM REQUIREMENTS FOR THIS PROJECT. UTILITY CONSTRUCTION SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE ROADWAY CONTRACT, PARTICULARLY FOR TRENCHING, BACKFILL, COMPACTION AND CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION WITHIN RIGHTS-OF-WAY OR EASEMENTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICES DURING CONSTRUCTION. MAINTAIN A LIST OF EMERGENCY CONTACTS FOR EACH UTILITY IN CASE OF ACCIDENTAL UTILITY DAMAGE.
11. THE CONTRACTOR SHALL FOLLOW ALL OSHA REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY TRAFFIC CONTROL MEASURES TO INSURE ACCESS AND SAFETY AT ALL TIMES FOR MOTORISTS, PEDESTRIANS, RESIDENTS, BUSINESSES, ETC.
13. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE ROADWAY CONTRACT.
14. CONTRACTOR SHALL POT HOLE EXISTING UTILITIES TO VERIFY DEPTHS. ANY ADJUSTMENTS TO HORIZONTAL OR VERTICAL ALIGNMENTS TO AVOID ANY EXISTING UTILITIES SHALL BE APPROVED BY UTILITY OWNER PRIOR TO INSTALLATION.
15. A MINIMUM OF 36 INCHES OF COVER IS REQUIRED OVER ALL NEW UTILITIES, UNLESS NOTED OTHERWISE ON THE PLANS.
16. ALL UTILITY MAINS LARGER THAN 6 INCHES THAT ARE TO BE ABANDONED SHALL BE PLUGGED AND FILLED WITH GROUT.
17. ALL WATER LINE FITTINGS (BENDS, TEES, VALVES, ETC.) SHALL BE PROPERLY RESTRAINED TO RESIST THE THRUST FORCES DUE TO LINE PRESSURE. ALL FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKS. WHERE SHOWING MECHANICAL JOINT FITTINGS AND VALVES SHALL BE INSTALLED WITH MEGALUG SERIES 1100 JOINT RESTRAINTS. IN ADDITION, THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE OR JOINT-RESTRAINING GASKETS AT ALL PIPE JOINTS FALLING WITHIN THE AREAS OF RESTRAINED JOINT PIPE. THE CONTRACTOR IS ADVISED TO ANTICIPATE THE JOINT RESTRAINT REQUIREMENTS OF UPCOMING FITTINGS SO THAT IN-LINE JOINTS THAT REQUIRE RESTRAINT MAY BE RESTRAINED AS PIPE IS LAID.
18. THE HORIZONTAL AND VERTICAL BEND FITTINGS SHOWN ON THE DRAWINGS ARE NOT NECESSARILY ALL OF THE BEND FITTINGS REQUIRED FOR THE INSTALLATION OF THE WATER LINE. IF ADDITIONAL FITTINGS ARE USED, PROPER RESTRAINT SHALL BE USED AS OUTLINED IN NOTE 17.

LEGEND:

24" W	PROPOSED WATER LINE
8" SA	PROPOSED SANITARY SEWER LINE
8" G	PROPOSED GAS LINE
24" W	EXISTING WATER LINE
8" SA	EXISTING SEWER LINE
8" G	EXISTING GAS LINE
PL	PROPERTY LINE
	EASEMENT LINE
	EXISTING SANITARY MANHOLE
	SANITARY MANHOLE (SEE CALLOUT FOR ACTION)
	PROPOSED VALVE
122	PROPERTY NUMBER
	CATCH BASIN
	TRAFFIC SIGNAL POLE
	CONTROL POINT
	FIRE HYDRANT
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
EOL	END OF LINE
IE	INVERT ELEVATION
LF	LINEAR FEET
MH	MANHOLE
MJ	MECHANICAL JOINT
RJ	RESTRAINED JOINT
SA	SANITARY SEWER
STA	STATION
TBA	TO BE ABANDONED
TC	TOP OF CASTING

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

Tennessee 811
Know what's below. Call before you dig.

GENERAL NOTES
LEGEND

2/1/2016
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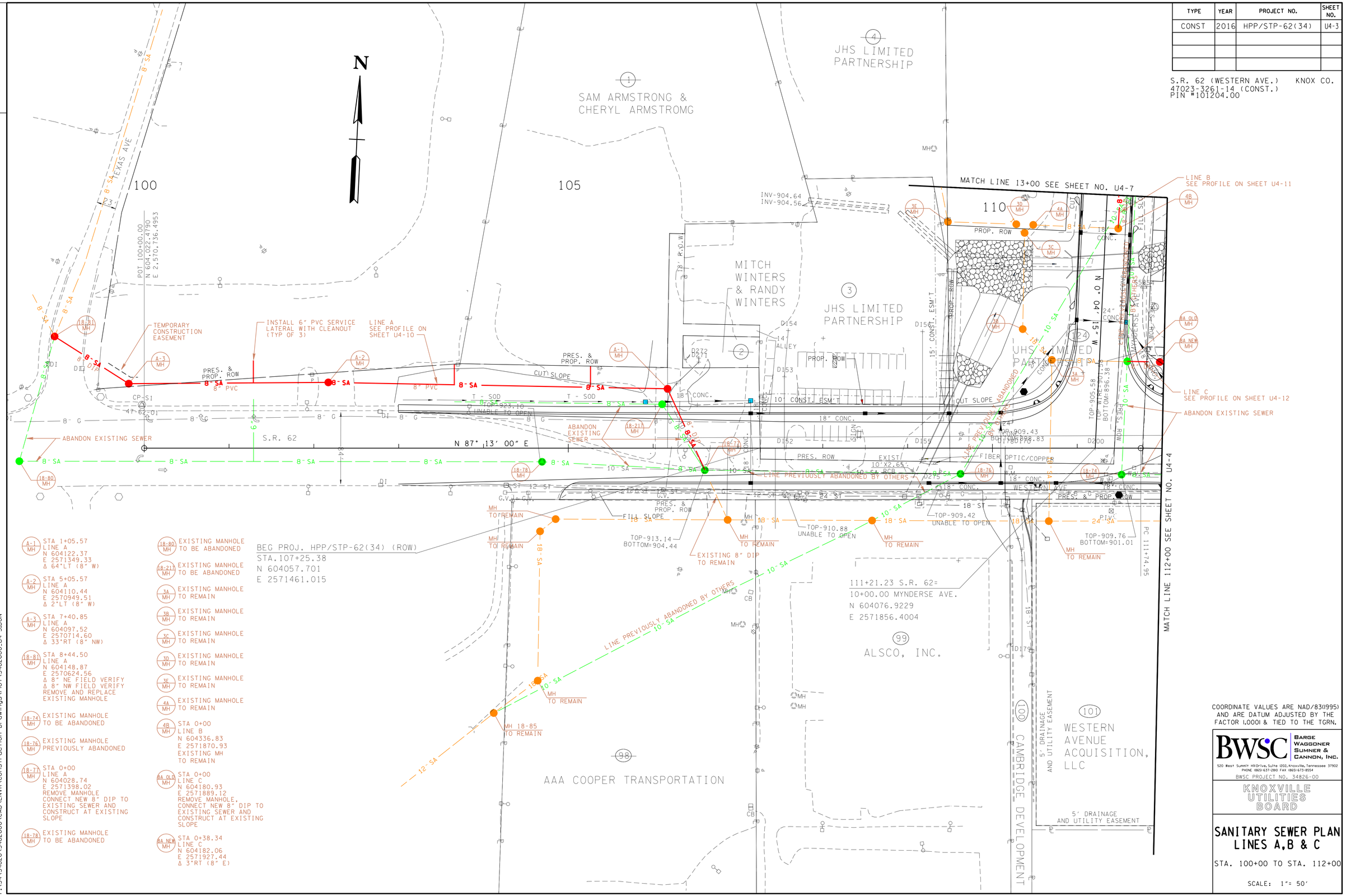
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-3

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN LINES A,B & C

STA. 100+00 TO STA. 112+00

SCALE: 1"= 50'

2/1/2016
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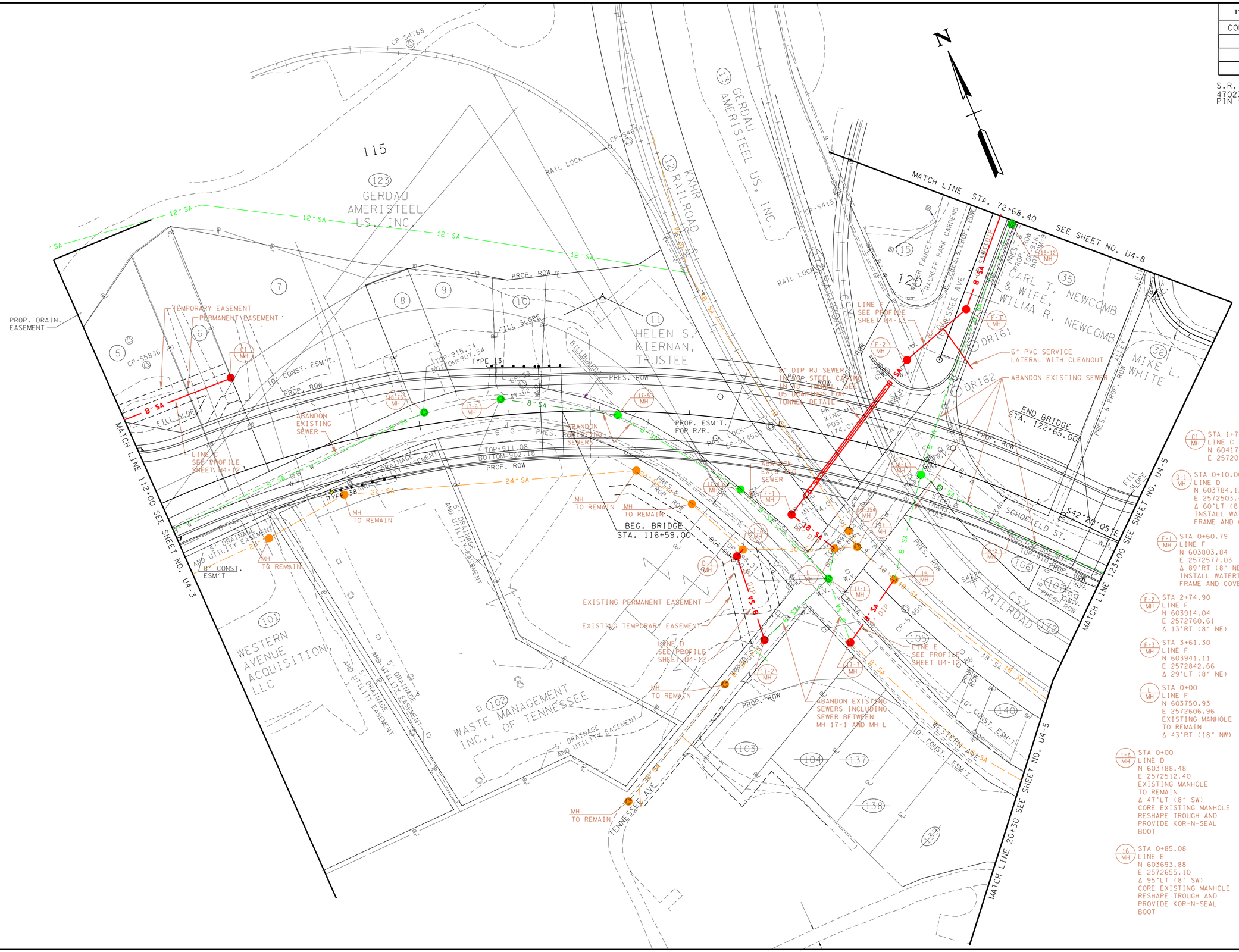
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-4

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



16-1 MH	EXISTING MANHOLE TO BE ABANDONED
16-2 MH	EXISTING MANHOLE TO BE ABANDONED
16-12 MH	EXISTING MANHOLE TO BE ABANDONED
17 MH	EXISTING MANHOLE TO REMAIN
17-1 MH	EXISTING MANHOLE TO BE REMOVED
17-2 MH	STA 1+07.89 LINE D N 603686.49 E 2572496.54 REMOVE AND REPLACE EXISTING MANHOLE Δ 60°RT (8" SW) INSTALL WATERTIGHT FRAME AND COVER
17-4 MH	EXISTING MANHOLE TO BE ABANDONED
17-5 MH	EXISTING MANHOLE TO BE ABANDONED
17-6 MH	EXISTING MANHOLE TO BE ABANDONED
17-7 MH	STA 0+00 LINE E N 603647.85 E 2572583.55 REMOVE AND REPLACE EXISTING MANHOLE Δ FIELD VERIFY (8" SE) INSTALL WATERTIGHT FRAME AND COVER
18-75 MH	EXISTING MANHOLE TO BE ABANDONED
18-35A MH	EXISTING MANHOLE TO REMAIN

C1 MH	STA 1+70.03 LINE C N 604179.81 E 2572059.76
D-1 MH	STA 0+10.00 LINE D N 603784.13 E 2572503.40 Δ 60°LT (8" S) INSTALL WATERTIGHT FRAME AND COVER
F-1 MH	STA 0+60.79 LINE F N 603803.84 E 2572577.03 Δ 89°RT (8" NE) INSTALL WATERTIGHT FRAME AND COVER
F-2 MH	STA 2+74.90 LINE F N 603914.04 E 2572760.61 Δ 13°RT (8" NE)
F-3 MH	STA 3+61.30 LINE F N 603941.11 E 2572842.66 Δ 29°LT (8" NE)
L MH	STA 0+00 LINE F N 603750.93 E 2572606.96 EXISTING MANHOLE TO REMAIN Δ 43°RT (18" NW)
J-A MH	STA 0+00 LINE D N 603788.48 E 2572512.40 EXISTING MANHOLE TO REMAIN Δ 47°LT (8" SW) CORE EXISTING MANHOLE RESHAPE TROUGH AND PROVIDE KOR-N-SEAL BOOT
16 MH	STA 0+85.08 LINE E N 603693.88 E 2572655.10 Δ 95°LT (8" SW) CORE EXISTING MANHOLE RESHAPE TROUGH AND PROVIDE KOR-N-SEAL BOOT

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN LINES C,D,E, & F

STA. 112+00 TO STA. 123+00

SCALE: 1"= 50'

2/1/2016
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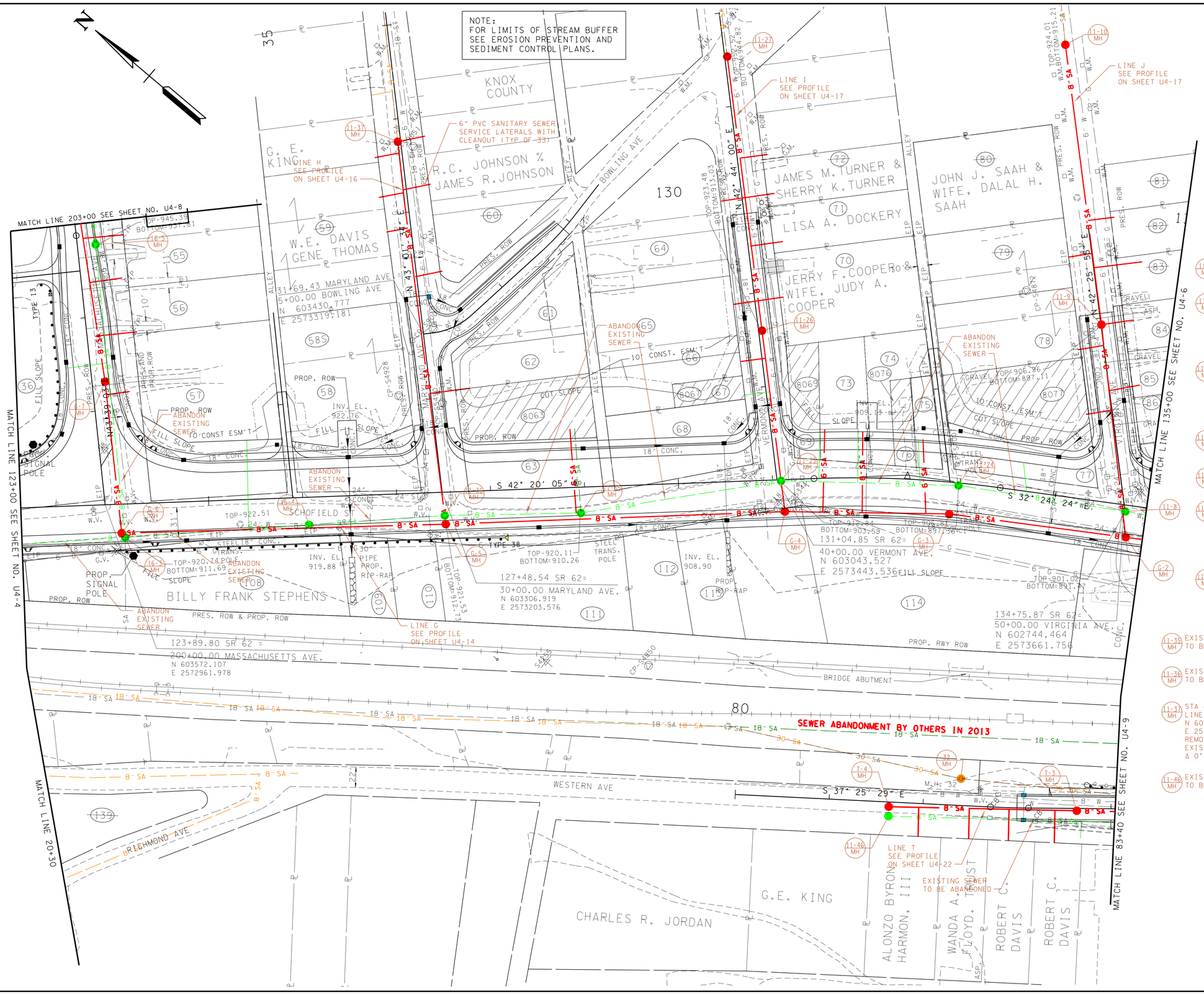
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-5

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

NOTE:
FOR LIMITS OF STREAM BUFFER SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.



(11-37 MH) EXISTING MANHOLE TO BE ABANDONED

(16-3 MH) EXISTING MANHOLE TO BE ABANDONED

(16-4 MH) EXISTING MANHOLE TO BE ABANDONED

(16-5 MH) EXISTING MANHOLE TO BE ABANDONED

(32 MH) EXISTING MANHOLE TO REMAIN

(G-2 MH) STA 3+17.98
LINE G
STA 0+00
LINE J
N 602720.92
E 2573636.43
Δ 75°RT (8" NE)
Δ 0° (8" NW)

(G-3 MH) STA 5+07.29
LINE G
N 602880.13
E 2573534.10
Δ 3°LT (8" NW)

(G-4 MH) STA 6+82.03
LINE G
STA 0+00
LINE I
N 603015.29
E 2573423.27
Δ 81°RT (8" NE)
Δ 3°LT (8" NW)

(G-5 MH) STA 10+43.02
LINE G
STA 0+00
LINE H
N 603282.14
E 2573180.16
Δ 85°RT (8" NE)
Δ 0°(8" NW)

(G-6 MH) STA 13+87.81
LINE G
N 603539.19
E 2572950.35
Δ 85°RT (8" NE)

(G-7 MH) STA 15+49.77
LINE G
N 603656.66
E 2573061.85
Δ 2°LT (8" NE)

(T-3 MH) STA 2+85.00
LINE T
N 602572.93
E 2573380.88
Δ 0° (8" NE)

(T-4 MH) STA 4+85.09
LINE T
N 602728.46
E 2573254.99

(11-8 MH) EXISTING MANHOLE TO BE REMOVED

(11-9 MH) STA 2+27.52
LINE J
N 602886.48
E 2573792.42
REMOVE AND REPLACE EXISTING MANHOLE
Δ 1°RT (8" NE)

(11-10 MH) STA 5+27.52
LINE J
N 603107.99
E 2573994.81
REMOVE AND REPLACE EXISTING MANHOLE
Δ 1°LT (8" NE)

(11-24 MH) EXISTING MANHOLE TO BE ABANDONED

(11-25 MH) EXISTING MANHOLE TO BE REMOVED

(11-26 MH) STA 1+93.87
LINE I
N 603158.07
E 2573554.41
REMOVE AND REPLACE EXISTING MANHOLE
Δ 0° (8" NE)

(11-27 MH) STA 4+87.64
LINE I
N 603374.51
E 2573753.05
REMOVE AND REPLACE EXISTING MANHOLE
Δ 0° (8" NE)

(11-35 MH) EXISTING MANHOLE TO BE ABANDONED

(11-36 MH) EXISTING MANHOLE TO BE REMOVED

(11-37 MH) STA 4+09.74
LINE H
N 603583.62
E 2573457.64
REMOVE AND REPLACE EXISTING MANHOLE
Δ 0° (8" NE)

(11-46 MH) EXISTING MANHOLE TO BE ABANDONED

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN
LINES G,H,I, & J

STA. 123+00 TO STA. 135+00

SCALE: 1"= 50'

2/1/2016
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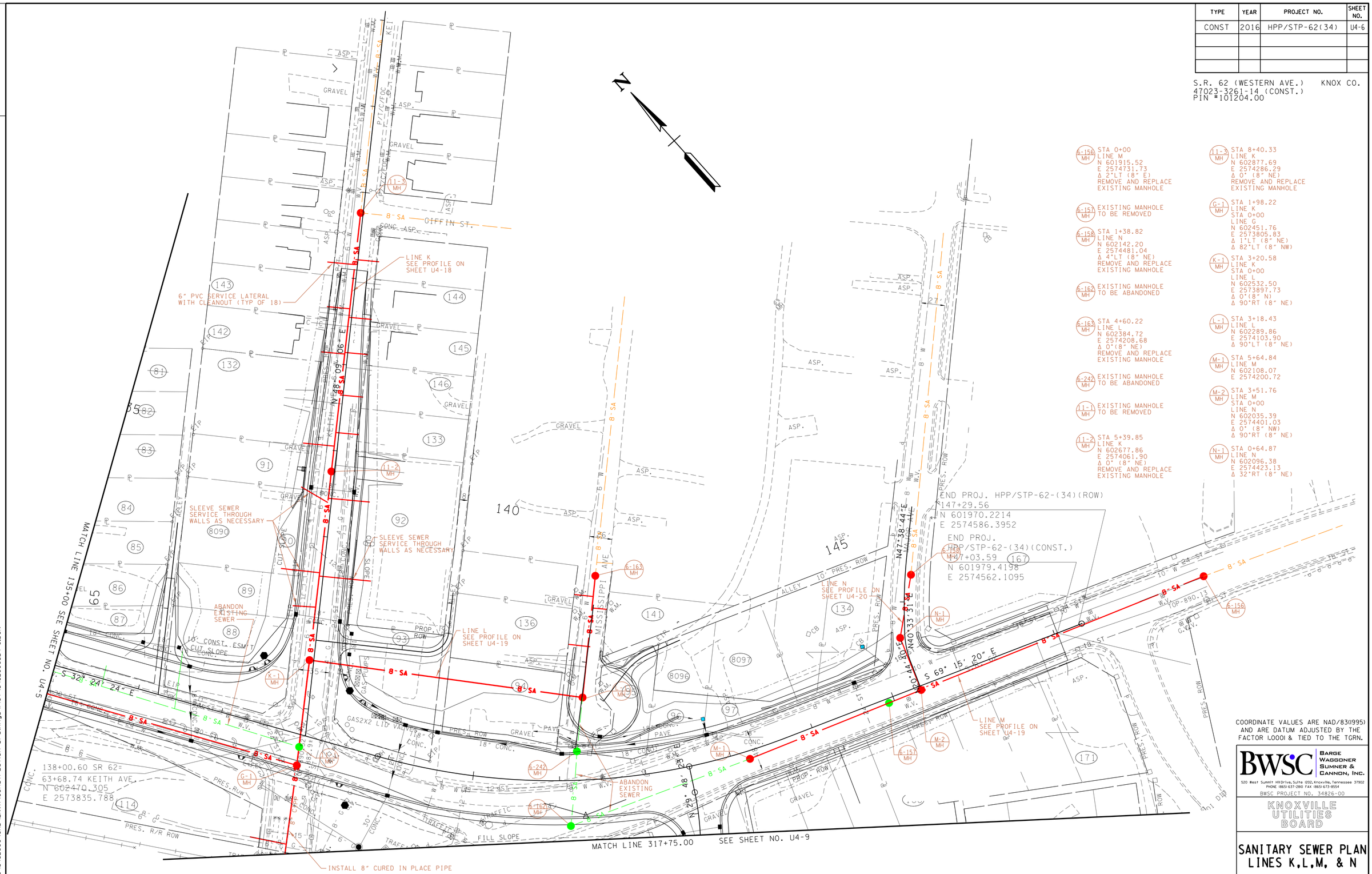
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-6

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



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KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN LINES K,L,M, & N

STA. 135+00 TO STA. 147+00

SCALE: 1"= 50'

2/1/2016
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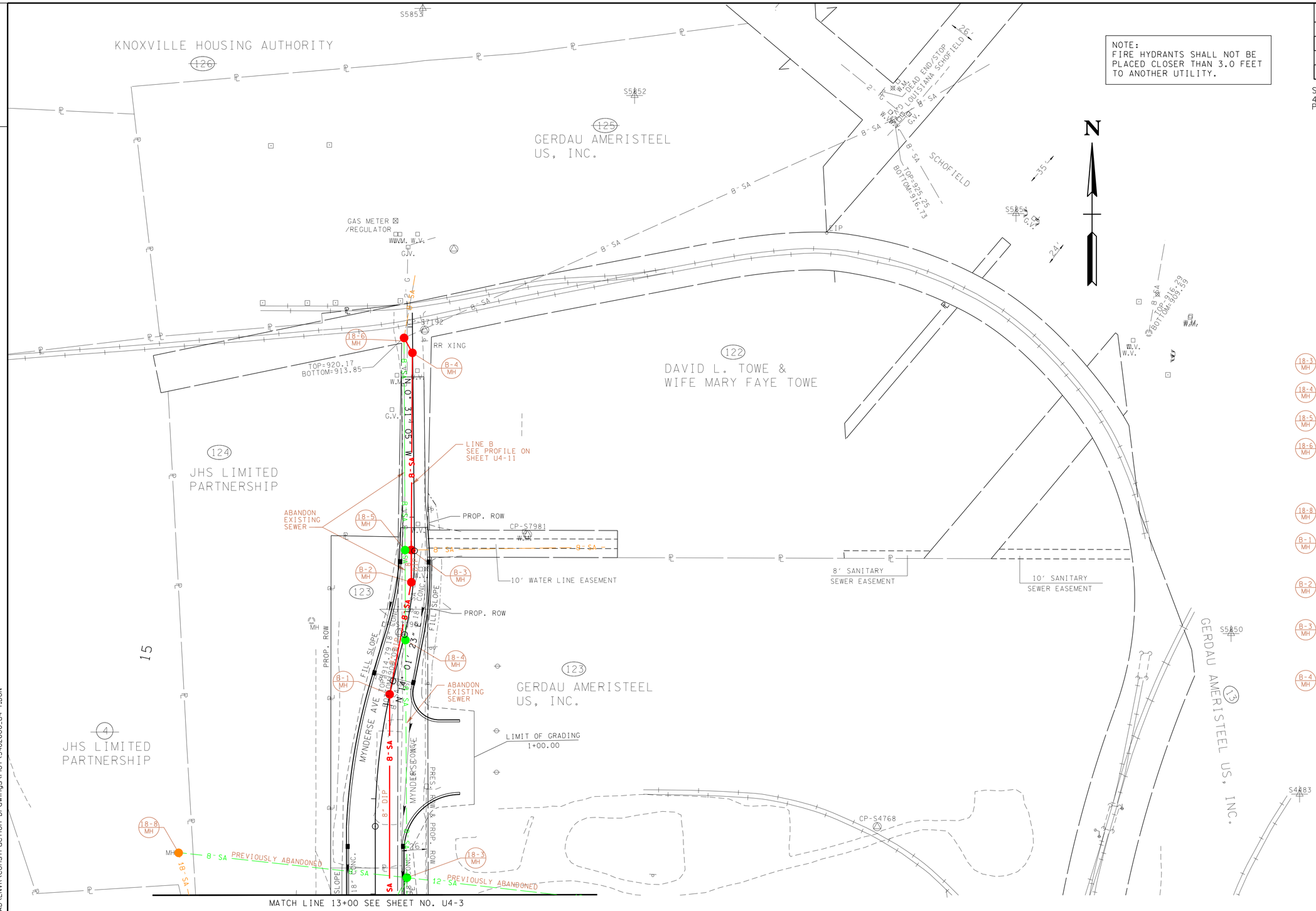
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-7

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

NOTE:
FIRE HYDRANTS SHALL NOT BE PLACED CLOSER THAN 3.0 FEET TO ANOTHER UTILITY.



18-3 MH EXISTING MANHOLE TO BE ABANDONED

18-4 MH EXISTING MANHOLE TO BE ABANDONED

18-5 MH EXISTING MANHOLE TO BE ABANDONED

18-6 MH STA 6+29.16
LINE B
N 604961.49
E 2571886.22
REMOVE AND REPLACE
EXISTING MANHOLE
Δ 39°RT (8" N)

18-8 MH EXISTING MANHOLE TO REMAIN

B-1 MH STA 2+49.99
LINE B
N 604586.82
E 2571871.09
Δ 11°RT (8" NE)

B-2 MH STA 3+69.99
LINE B
N 604704.62
E 2571893.94
Δ 11°LT (8" N)

B-3 MH STA 4+03.89
LINE B
N 604738.53
E 2571893.81
Δ 0° (8" N)
Δ 90°RT (8" E)

B-4 MH STA 6+11.15
LINE B
N 604945.78
E 2571895.03
Δ 30°LT (8" NW)

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN LINE B

MYNDERSE AVE.

SCALE: 1"= 50'

2/1/2016
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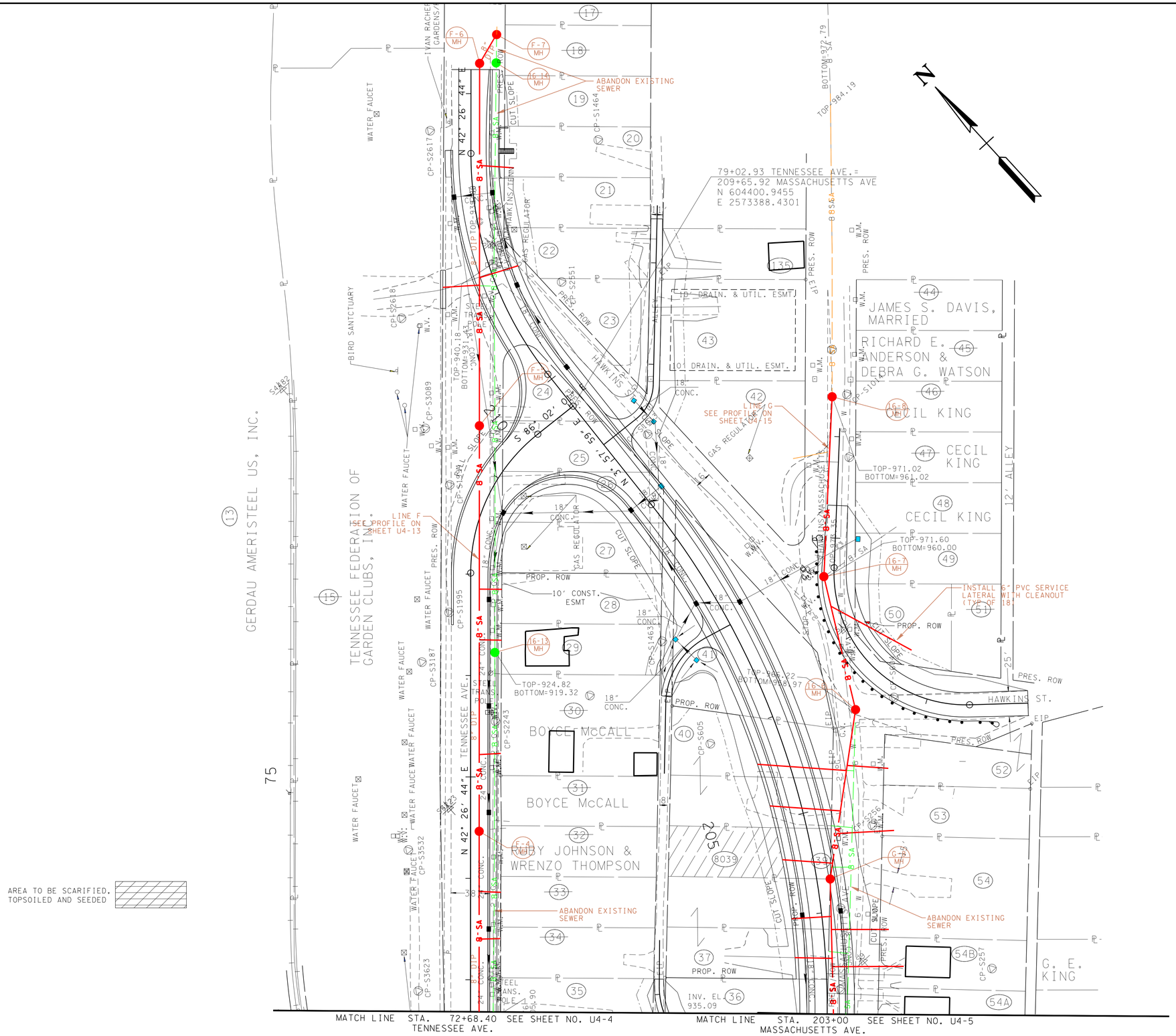
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-8

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



AREA TO BE SCARIFIED, TOPSOILED AND SEEDED

16-6 MH STA 20+22.17 LINE G N 603992.10 E 2573392.17 Δ 22° LT (8" NE) REMOVE AND REPLACE EXISTING MANHOLE

16-7 MH STA 21+57.02 LINE G N 604109.83 E 2573457.50 Δ 16° RT (8" NE) REMOVE AND REPLACE EXISTING MANHOLE

16-8 MH STA 23+34.60 LINE G N 604235.42 E 2573583.25 Δ 3° LT (8" NE) REMOVE AND REPLACE EXISTING MANHOLE

16-13 MH EXISTING MANHOLE TO BE ABANDONED

16-14 MH EXISTING MANHOLE TO BE ABANDONED

F-4 MH STA 6+49.56 LINE F N 604153.83 E 2573037.21 Δ 0°(8" NE)

F-5 MH STA 10+49.56 LINE F N 604448.99 E 2573307.16 Δ 0°(8" NE)

F-6 MH STA 14+06.91 LINE F N 604727.41 E 2573558.17 Δ 30° RT (8" E)

F-7 MH STA 14+39.91 LINE F N 604722.56 E 2573580.09 Δ 28° LT (8" NE)

G-8 MH STA 18+53.30 LINE G N 603885.64 E 2573261.09 Δ 10° RT (8" NE)

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KNOXVILLE UTILITIES BOARD

SANITARY SEWER PLAN LINES F & G

MASSACHUSETTS AVE.

SCALE: 1"= 50'

2/1/2016
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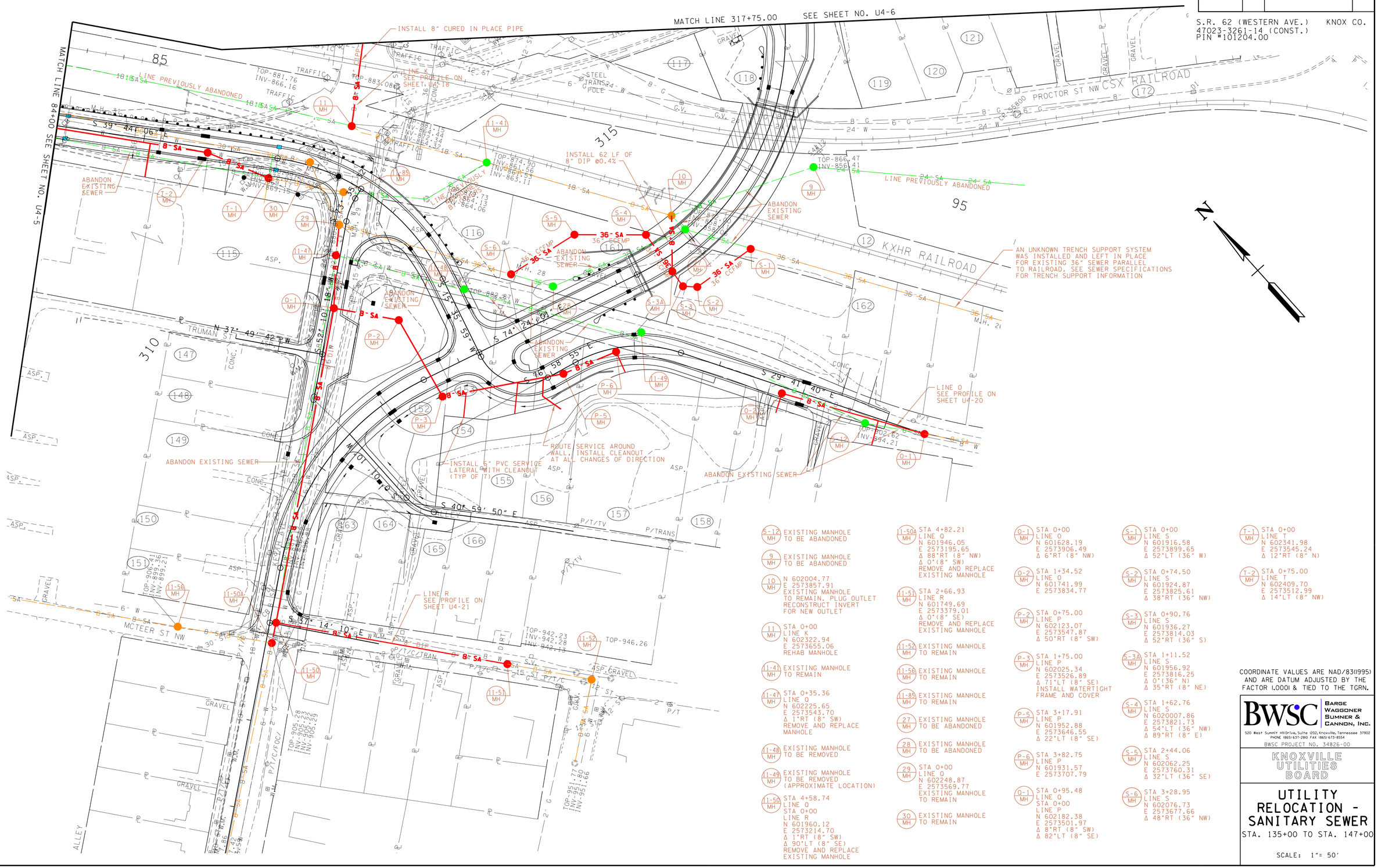
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-9

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



(5-12) MH — EXISTING MANHOLE TO BE ABANDONED

(9) MH — EXISTING MANHOLE TO BE ABANDONED

(10) MH — N 602004.77 E 2573857.91 EXISTING MANHOLE TO REMAIN. PLUG OUTLET RECONSTRUCT INVERT FOR NEW OUTLET

(11) MH — STA 0+00 LINE K N 602322.94 E 2573655.06 REHAB MANHOLE

(11-41) MH — EXISTING MANHOLE TO REMAIN

(11-47) MH — STA 0+35.36 LINE O N 602225.65 E 2573543.70 Δ 1°RT (8" SW) REMOVE AND REPLACE MANHOLE

(11-48) MH — EXISTING MANHOLE TO BE REMOVED

(11-49) MH — EXISTING MANHOLE TO BE REMOVED (APPROXIMATE LOCATION)

(11-50) MH — STA 4+58.74 LINE O STA 0+00 LINE R N 601960.12 E 2573214.70 Δ 1°RT (8" SW) Δ 90°LT (8" SE) REMOVE AND REPLACE EXISTING MANHOLE

(11-50A) MH — STA 4+82.21 LINE O N 601946.05 E 2573195.65 Δ 88°RT (8" NW) Δ 0°(8" SW) REMOVE AND REPLACE EXISTING MANHOLE

(11-51) MH — STA 2+66.93 LINE R N 601749.69 E 2573379.01 Δ 0°(8" SE) REMOVE AND REPLACE EXISTING MANHOLE

(11-52) MH — EXISTING MANHOLE TO REMAIN

(11-56) MH — EXISTING MANHOLE TO REMAIN

(11-85) MH — EXISTING MANHOLE TO REMAIN

(27) MH — EXISTING MANHOLE TO BE ABANDONED

(28) MH — EXISTING MANHOLE TO BE ABANDONED

(29) MH — STA 0+00 LINE O N 602248.87 E 2573569.77 EXISTING MANHOLE TO REMAIN

(30) MH — EXISTING MANHOLE TO REMAIN

(O-1) MH — STA 0+00 LINE O N 601628.19 E 2573906.49 Δ 6°RT (8" NW)

(O-2) MH — STA 1+34.52 LINE O N 601741.99 E 2573834.77

(P-2) MH — STA 0+75.00 LINE P N 602123.07 E 2573547.87 Δ 50°RT (8" SW)

(P-3) MH — STA 1+75.00 LINE P N 602025.34 E 2573526.89 Δ 71°LT (8" SE) INSTALL WATERTIGHT FRAME AND COVER

(P-5) MH — STA 3+17.91 LINE P N 601952.88 E 2573646.55 Δ 22°LT (8" SE)

(P-6) MH — STA 3+82.75 LINE P N 601931.57 E 2573707.79

(O-1) MH — STA 0+95.48 LINE O STA 0+00 LINE P N 602182.38 E 2573501.97 Δ 8°RT (8" SW) Δ 82°LT (8" SE)

(S-1) MH — STA 0+00 LINE S N 601916.58 E 2573899.65 Δ 52°LT (36" W)

(S-2) MH — STA 0+74.50 LINE S N 601924.87 E 2573825.61 Δ 38°RT (36" NW)

(S-3) MH — STA 0+90.76 LINE S N 601936.27 E 2573814.03 Δ 52°RT (36" S)

(S-3A) MH — STA 1+11.52 LINE S N 601956.92 E 2573816.25 Δ 0°(36" N) Δ 35°RT (8" NE)

(S-4) MH — STA 1+62.76 LINE S N 6020007.86 E 2573821.73 Δ 54°LT (36" NW) Δ 89°RT (8" E)

(S-5) MH — STA 2+44.06 LINE S N 602062.25 E 2573760.31 Δ 32°LT (36" SE)

(S-6) MH — STA 3+28.95 LINE S N 602076.73 E 2573677.66 Δ 48°RT (36" NW)

(T-1) MH — STA 0+00 LINE T N 602341.98 E 2573545.24 Δ 12°RT (8" N)

(T-2) MH — STA 0+75.00 LINE T N 602409.70 E 2573512.99 Δ 14°LT (8" NW)

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

UTILITY RELOCATION - SANITARY SEWER

STA. 135+00 TO STA. 147+00

SCALE: 1"= 50'

2/1/2016
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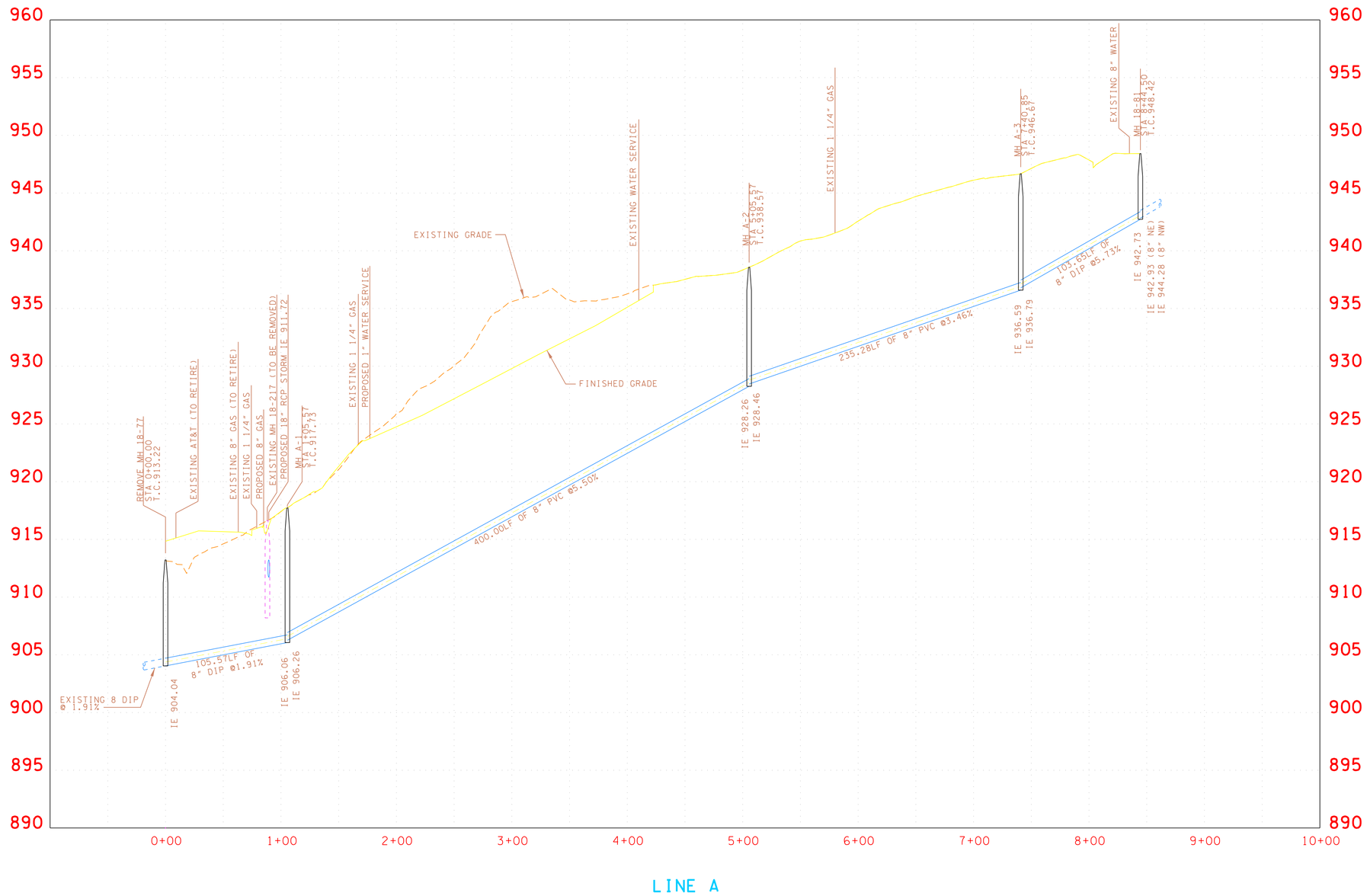
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-10

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE A

STA.0+00 TO STA.8+44 EOL

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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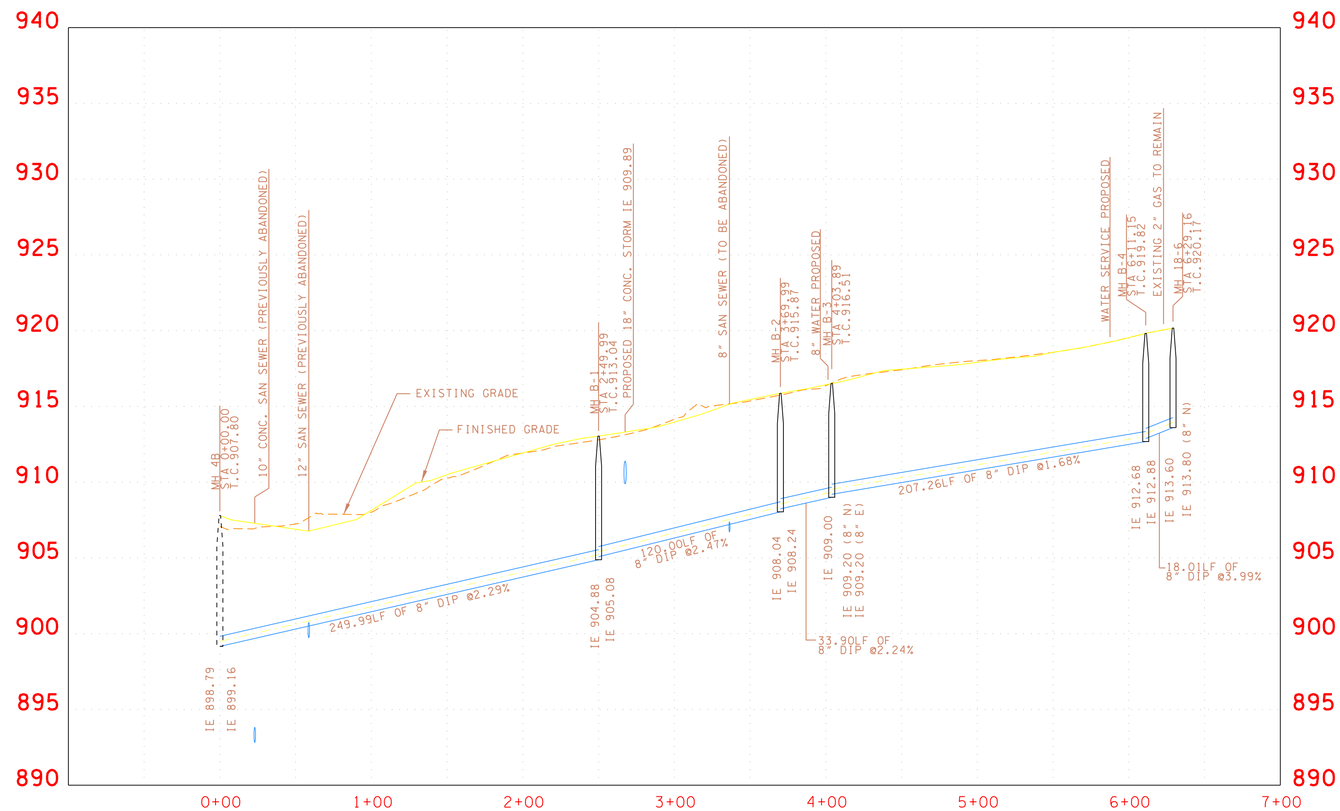
TENNESSEE D.O.T.	
DESIGN DIVISION	
FILE NO.	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-11

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE B

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE B

STA.0+00 TO STA.6+29.16 EOL

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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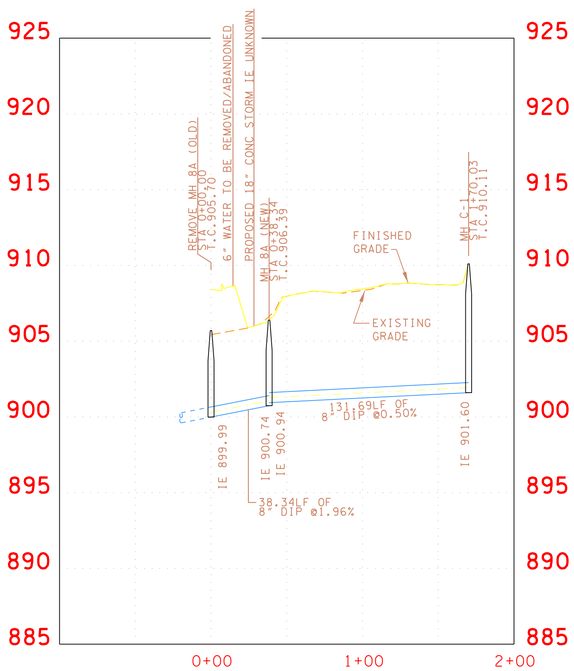
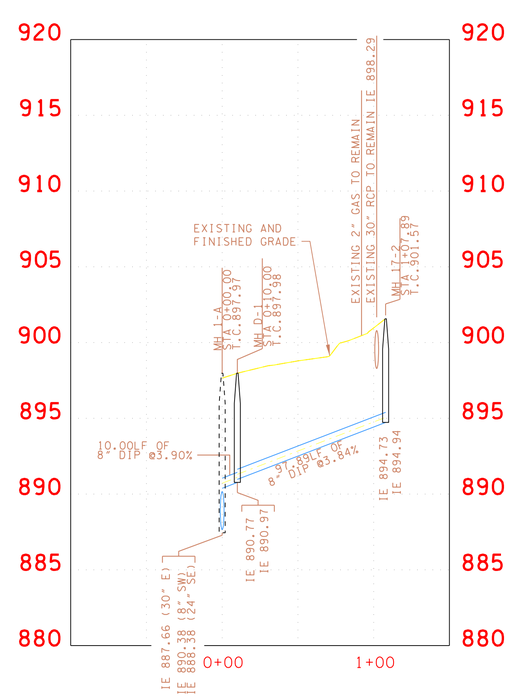
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-12

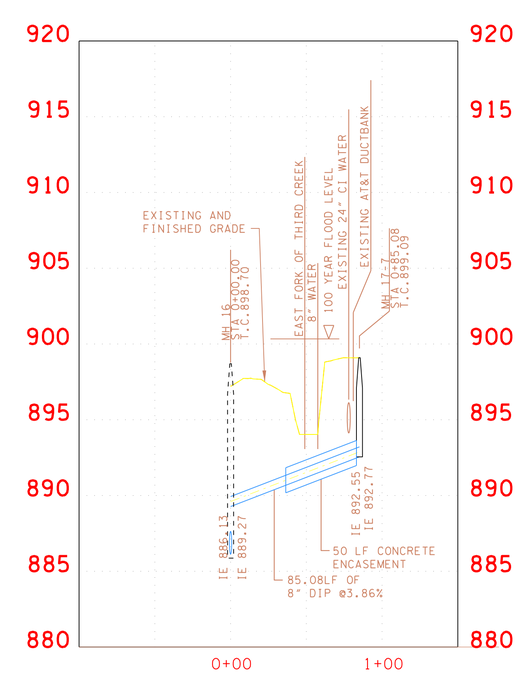
S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE C



LINE D



LINE E

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES C,D & E

STA.0+00 TO STA. EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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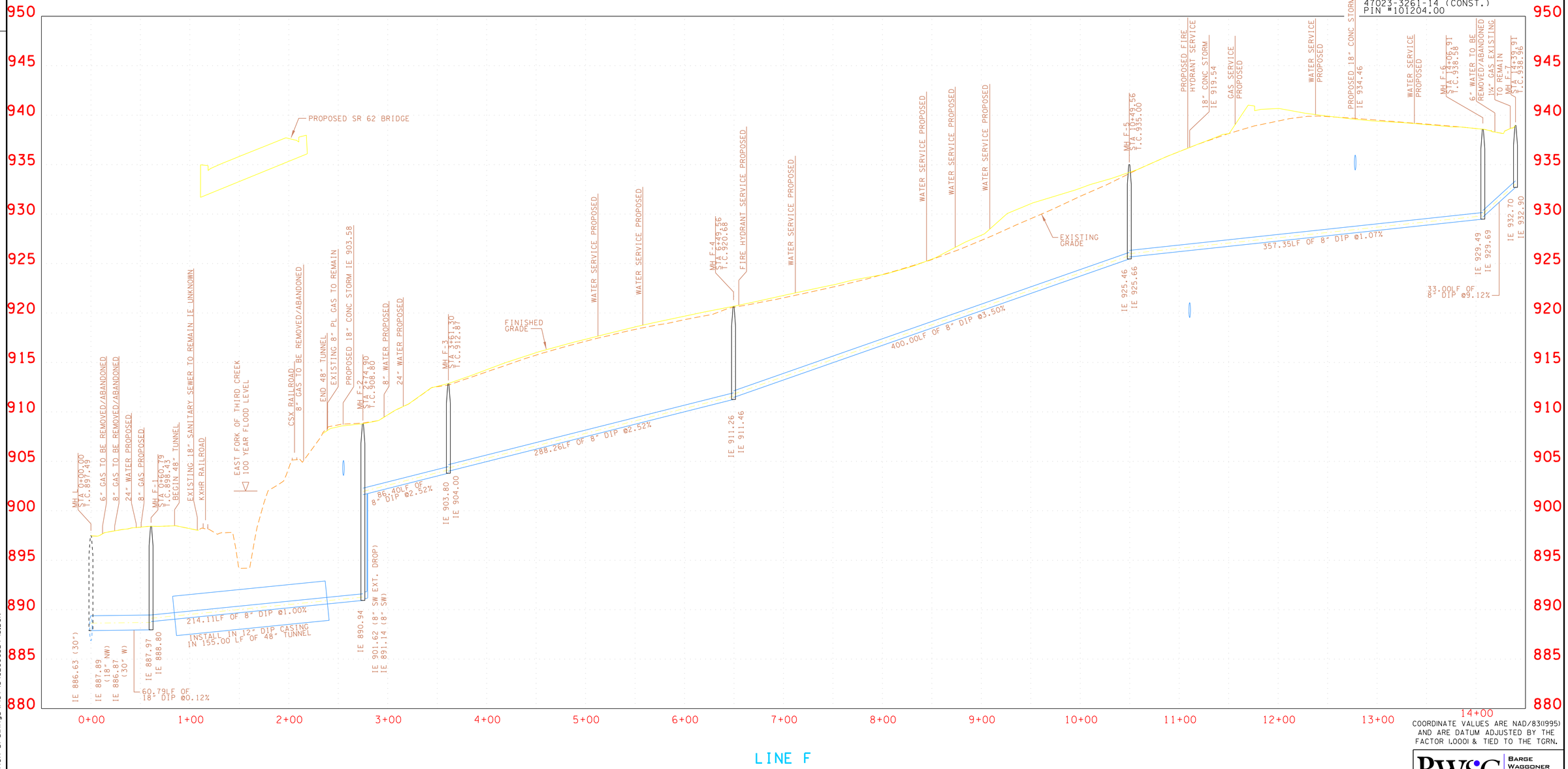
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-13

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE F

STA.0+00 TO STA.14+40 EOL

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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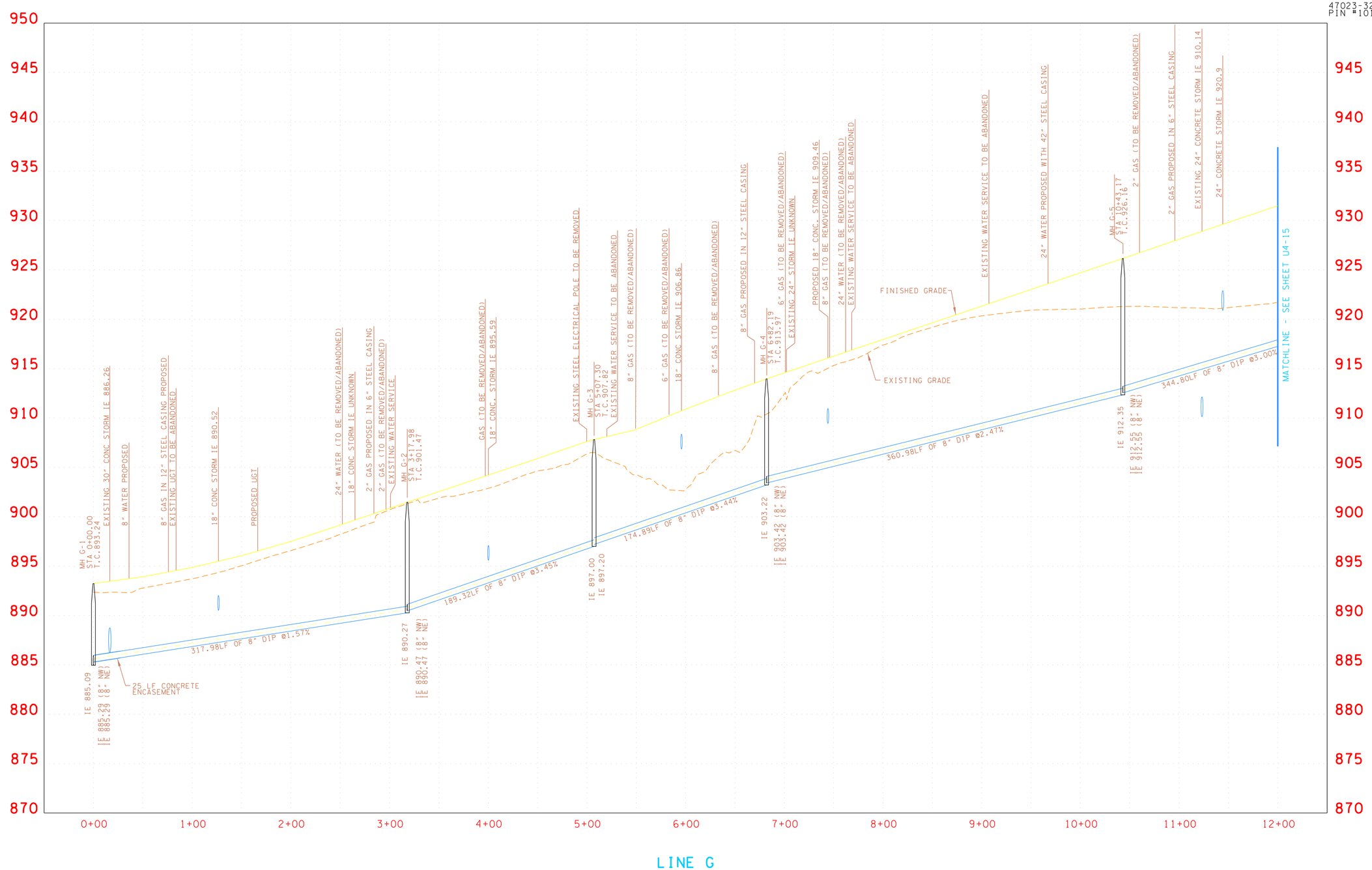
TENNESSEE D.O.T.	
DESIGN DIVISION	
FILE NO.	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-14

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE G

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
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KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE G

STA.0+00 TO STA.12+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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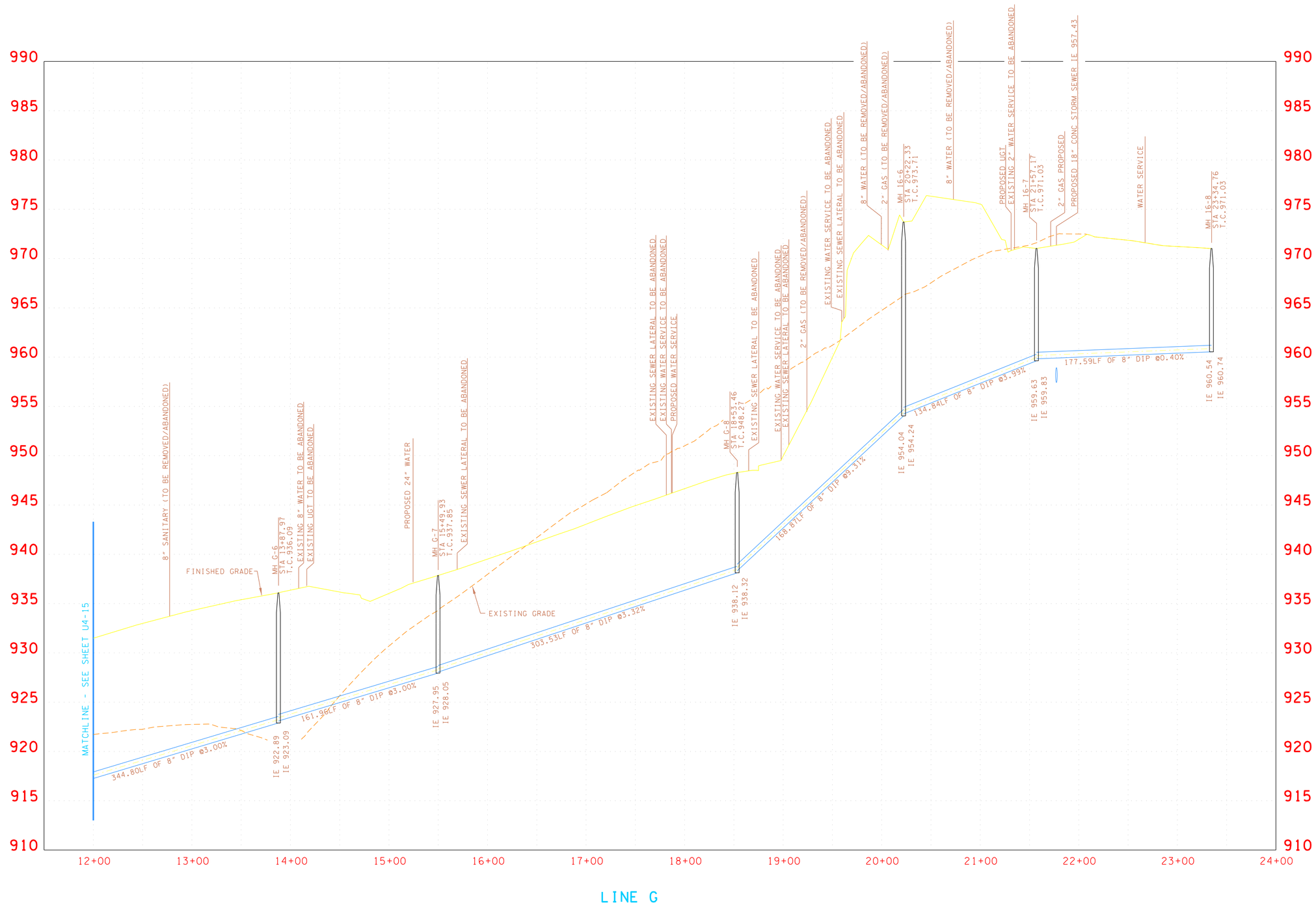
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-15

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE G

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE G

STA.12+00 TO STA.23+35
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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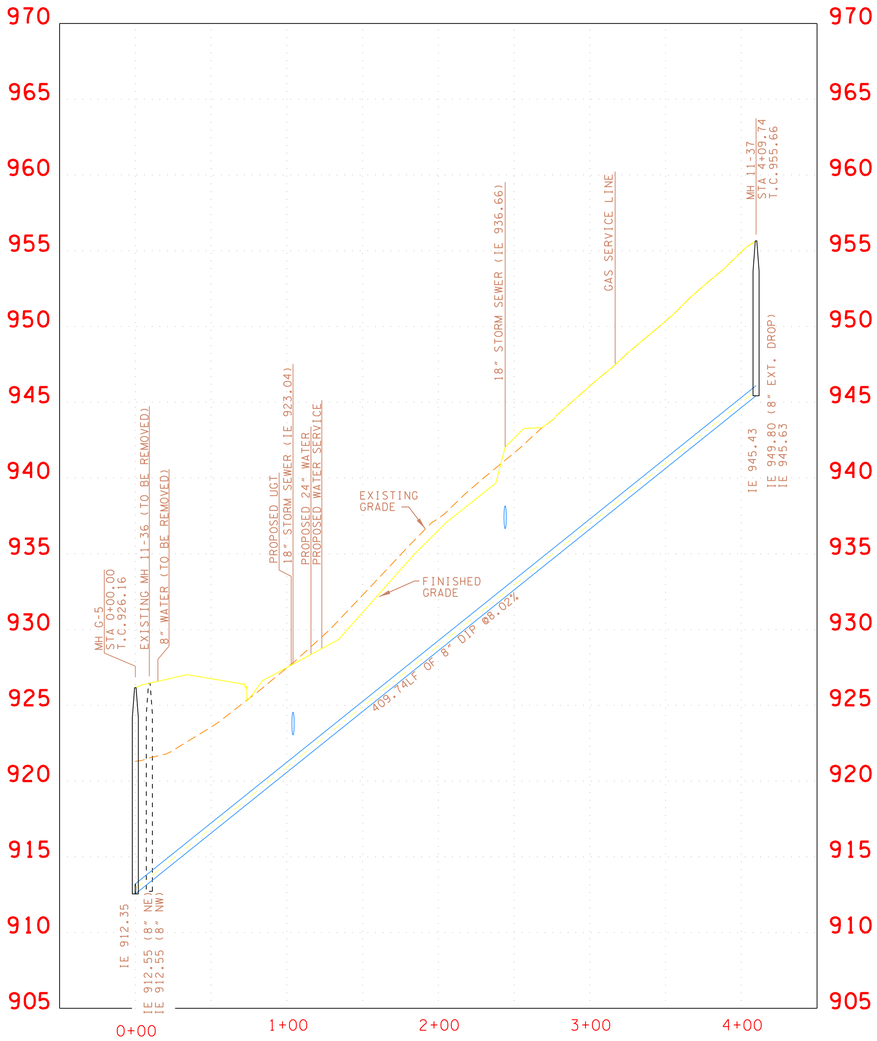
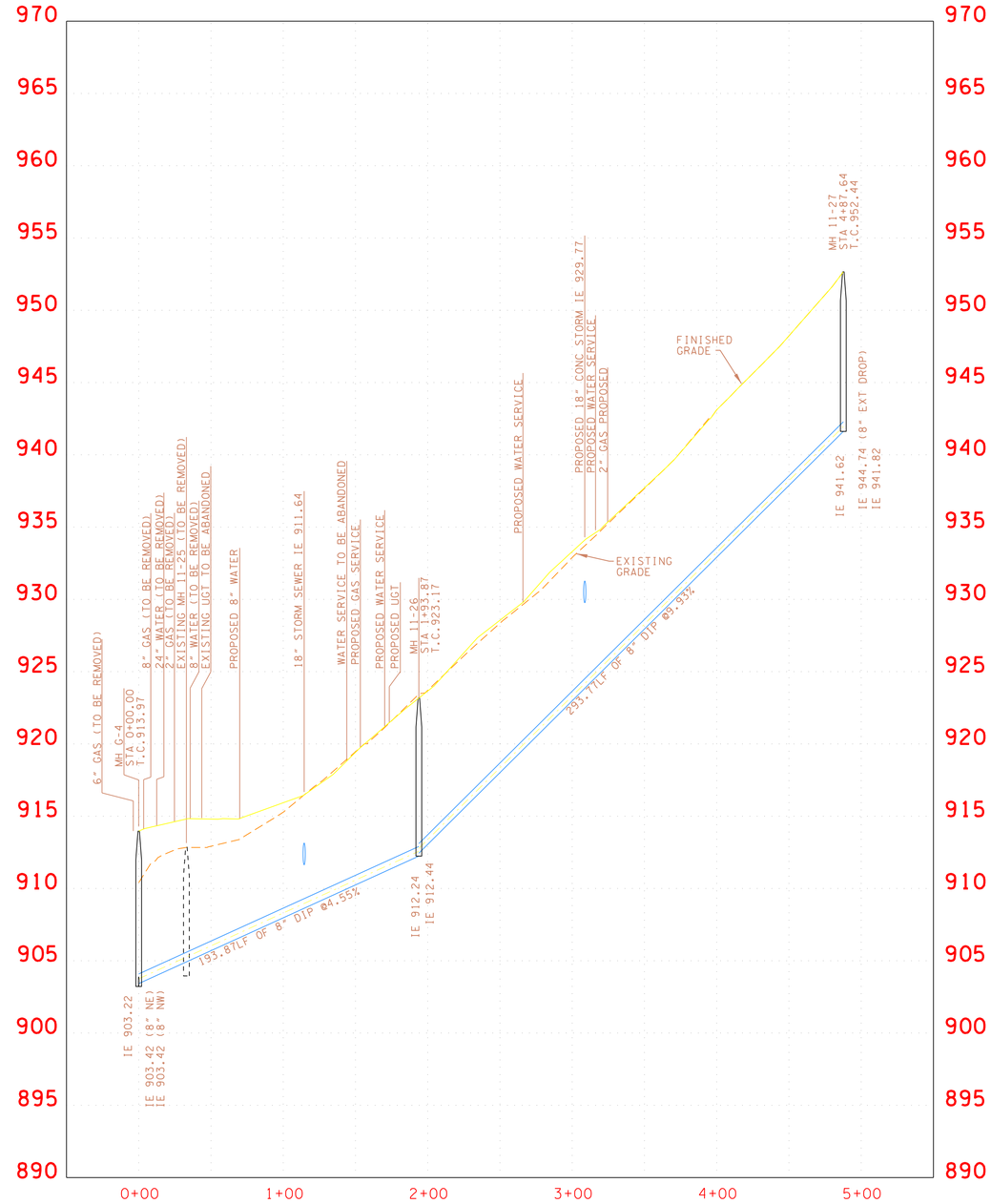
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-16

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE H



LINE I

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES H & I

STA.0+00 TO STA.EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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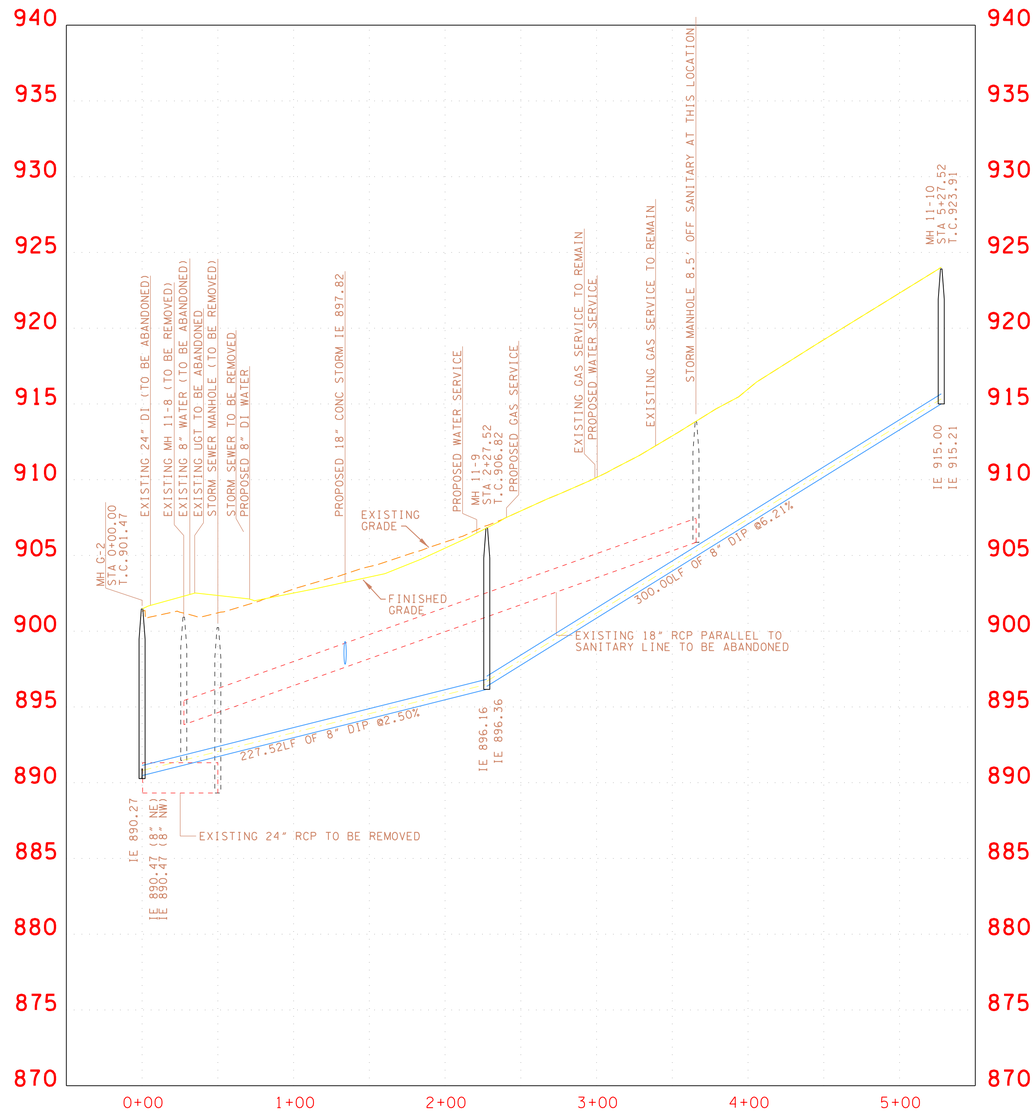
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-17

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE J

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE J

STA.0+00 TO STA.5+27 EOL

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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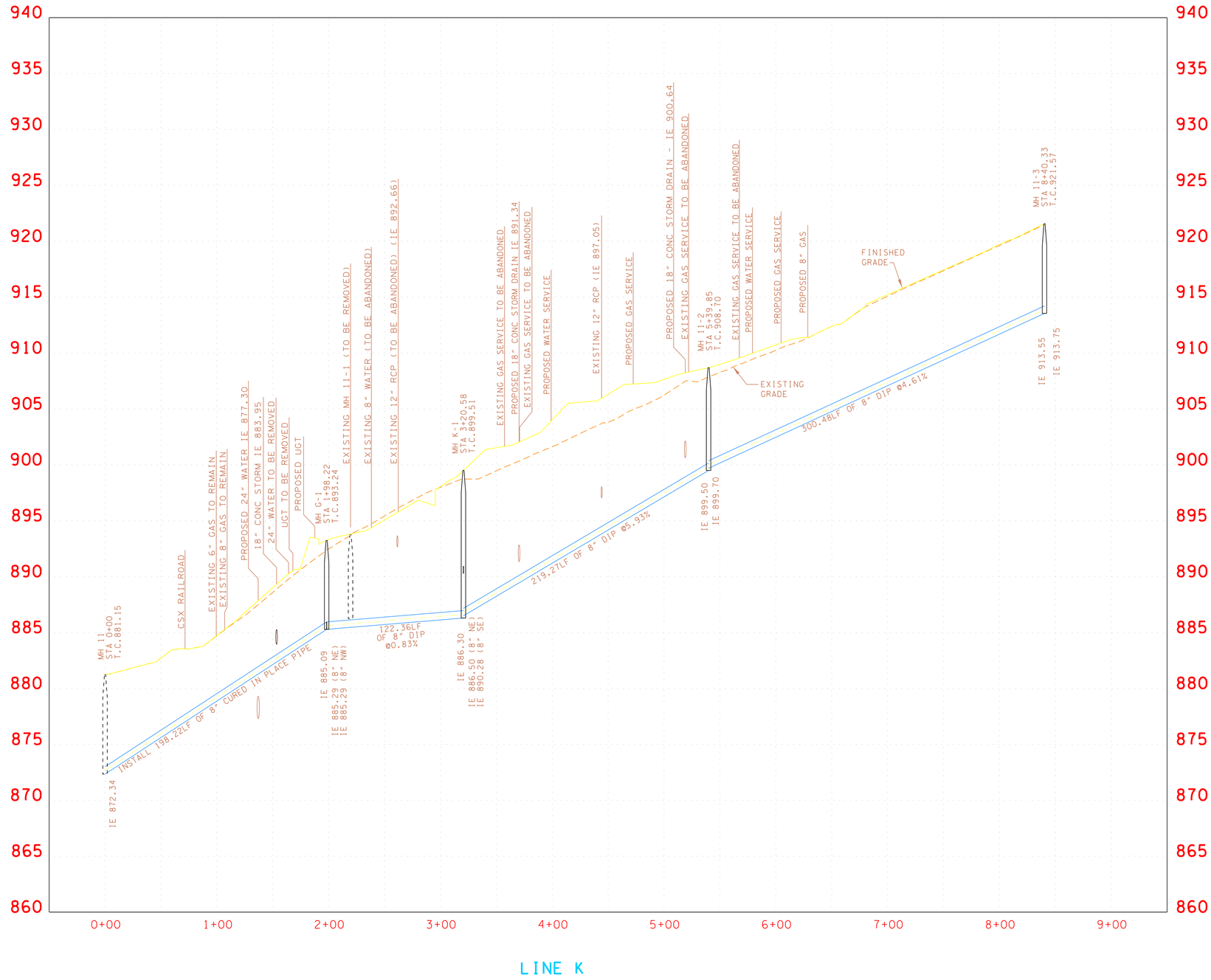
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-18

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINE K

STA.0+00 TO STA.8+40 EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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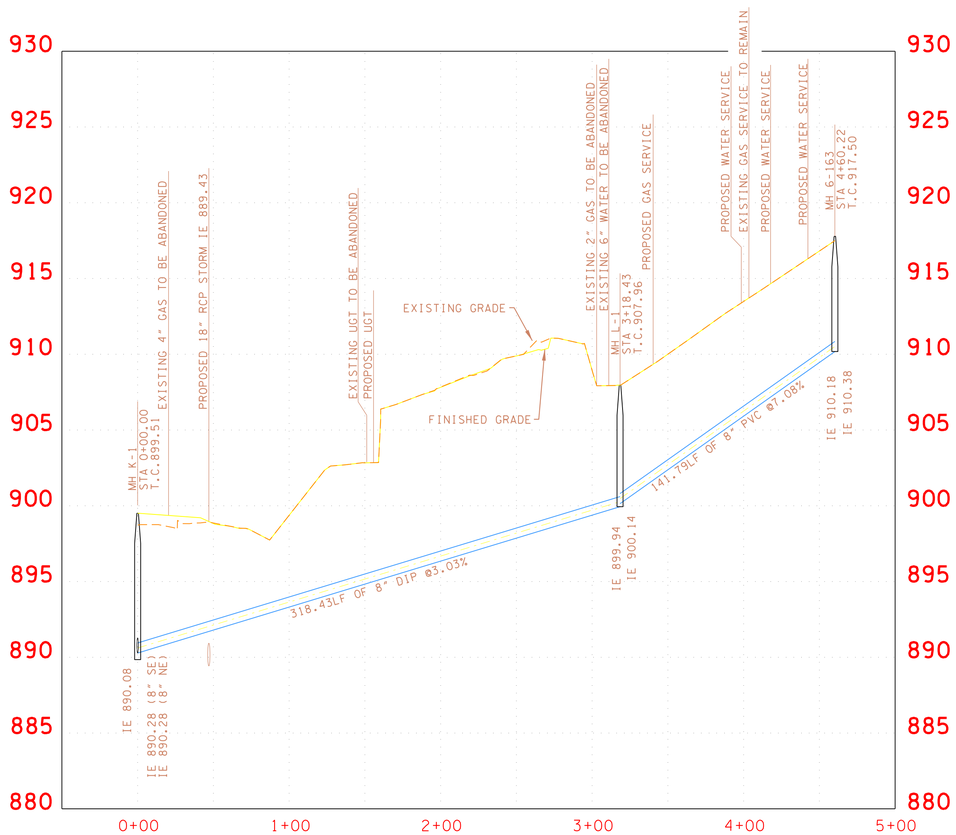
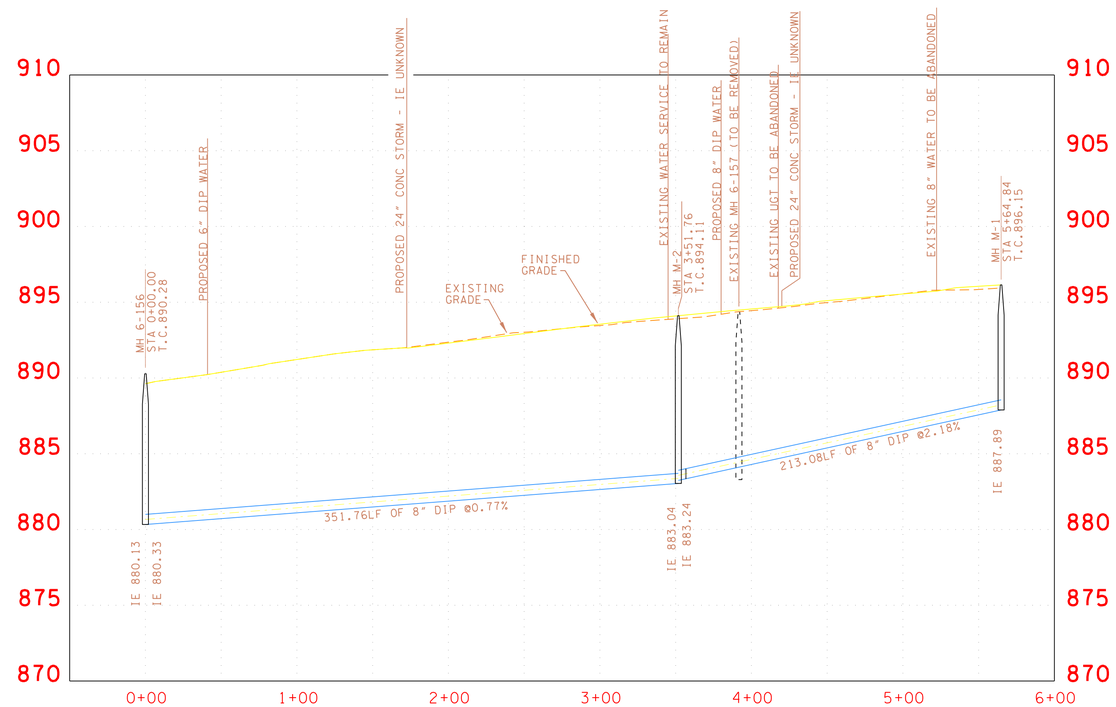
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-19

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE L



LINE M

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES L AND M

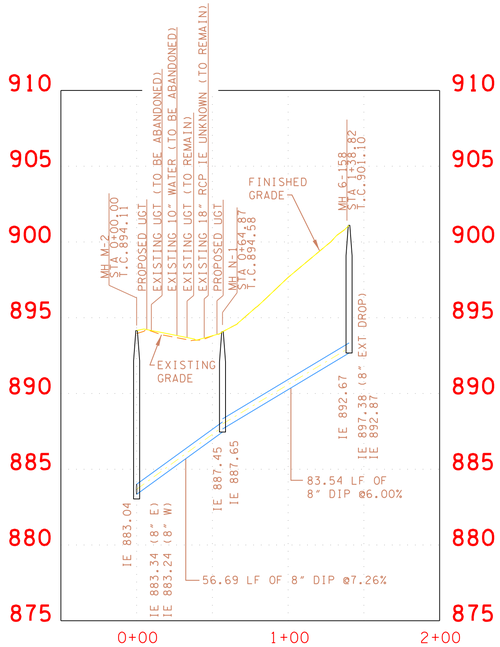
STA.0+00 TO STA. EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
F:\34\34826\3482600\CAD\ENVR\Construction Drawings\Plot\3482600_U4-19.DGN

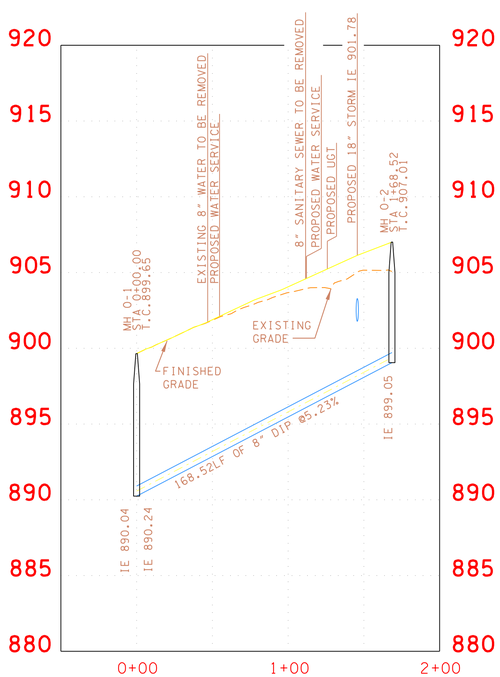
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-20

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE N



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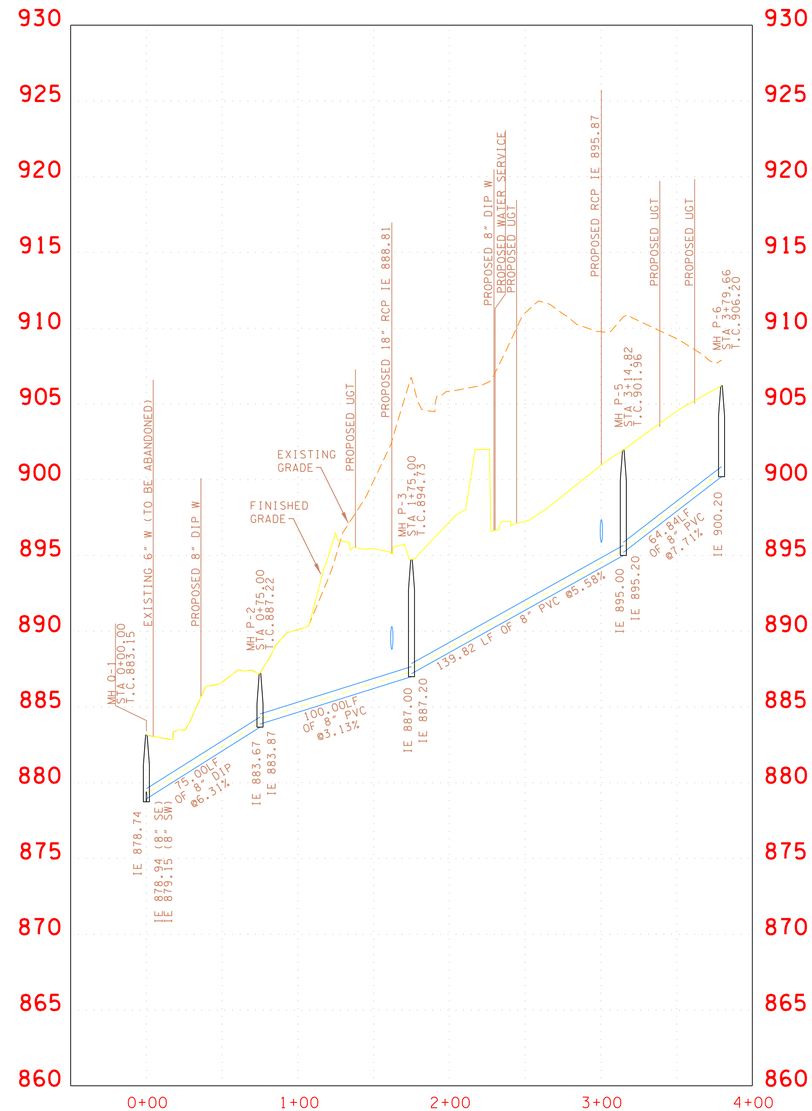

LINE P

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES N, O AND P

STA.0+00 TO STA. EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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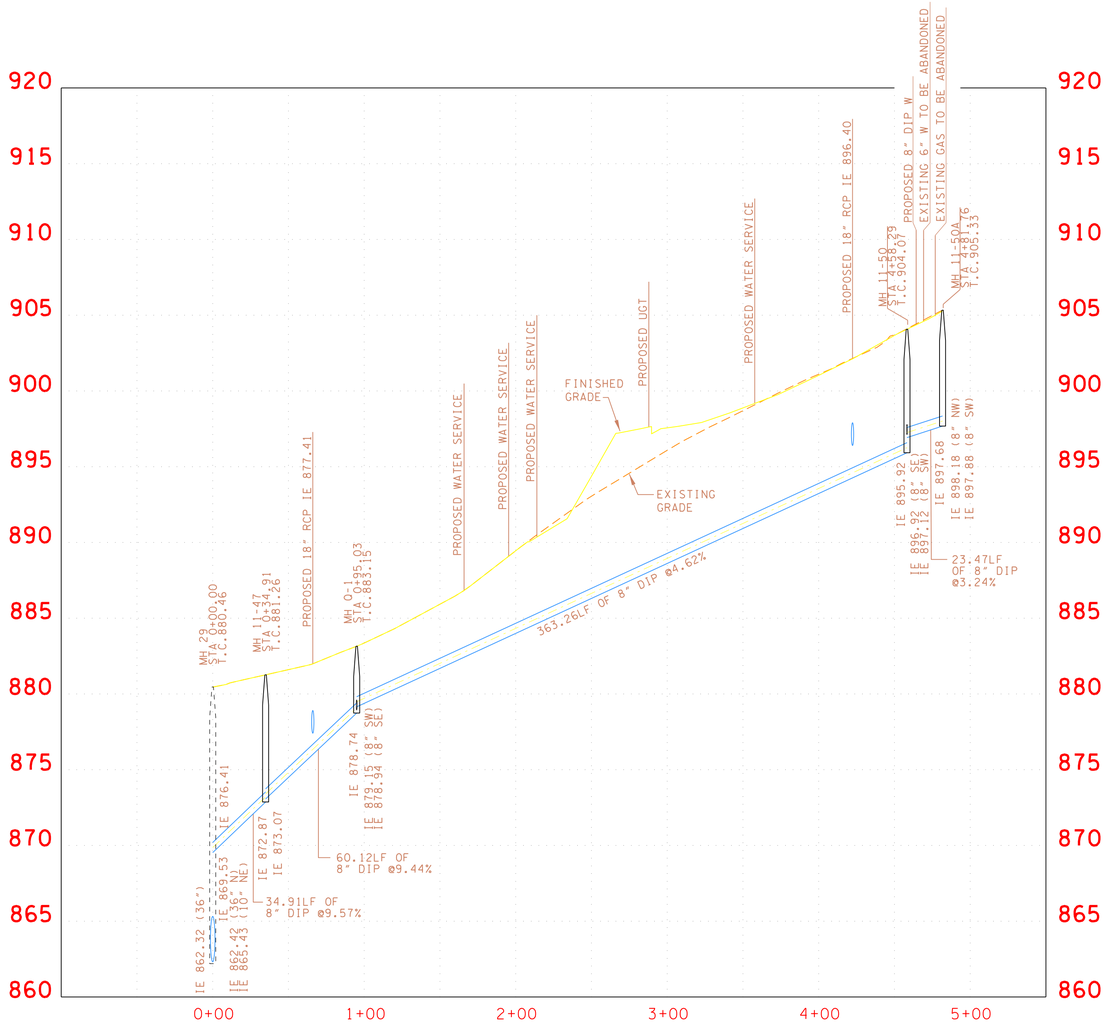
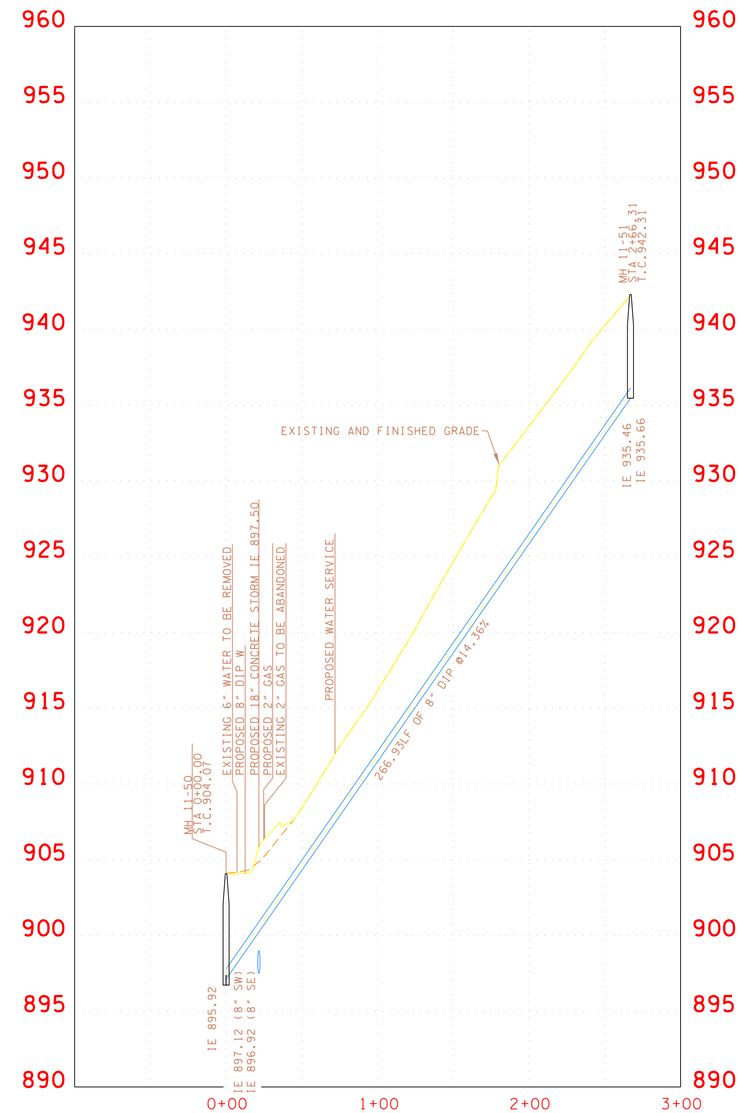
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-21

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE Q



LINE R

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES Q AND R

STA.0+00 TO STA. EOL
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
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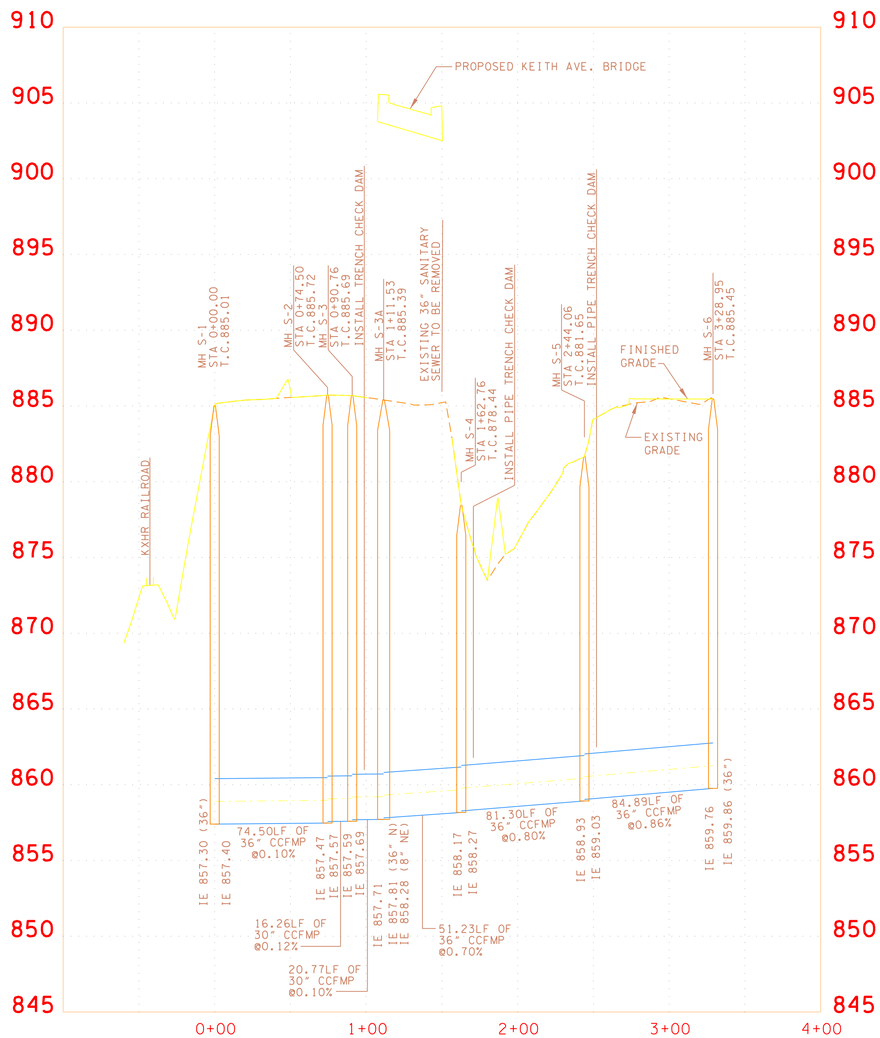
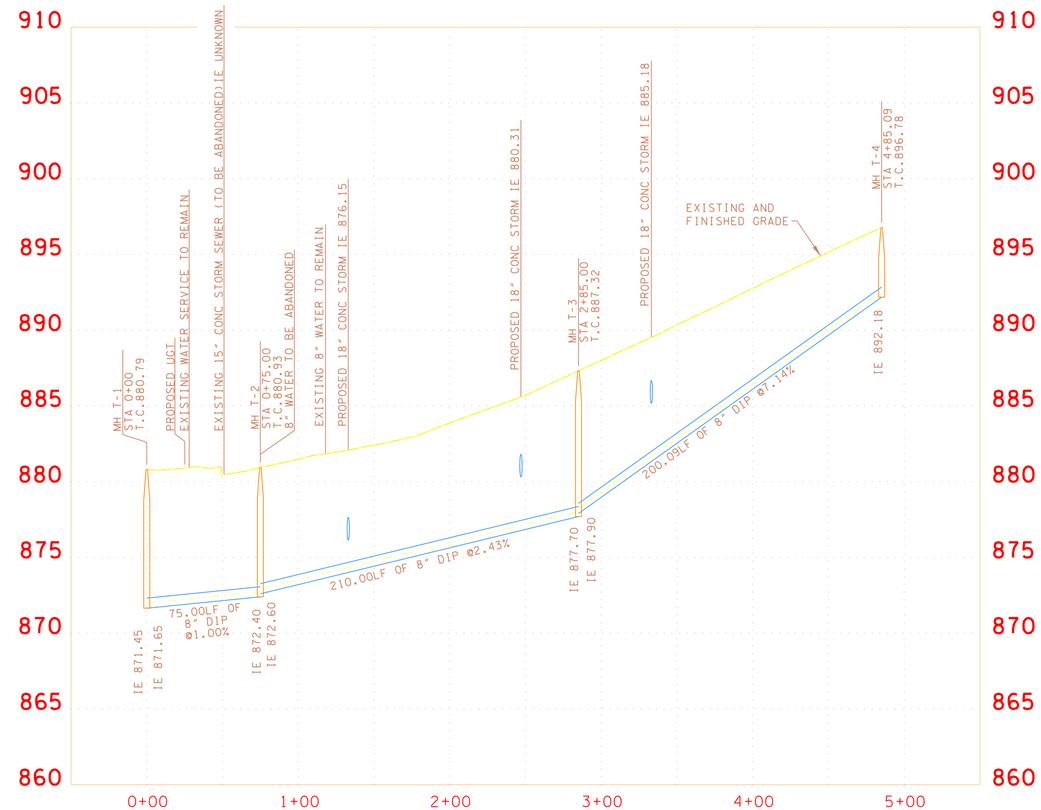
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U4-22

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE S



LINE T

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
SANITARY SEWER LINES S AND T

STA.0+00 TO STA. EOL

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/1/2016
F:\34\34826\3482600\CAD\ENVR\Construction Drawings\Plot\3482600_U4-22.DGN