

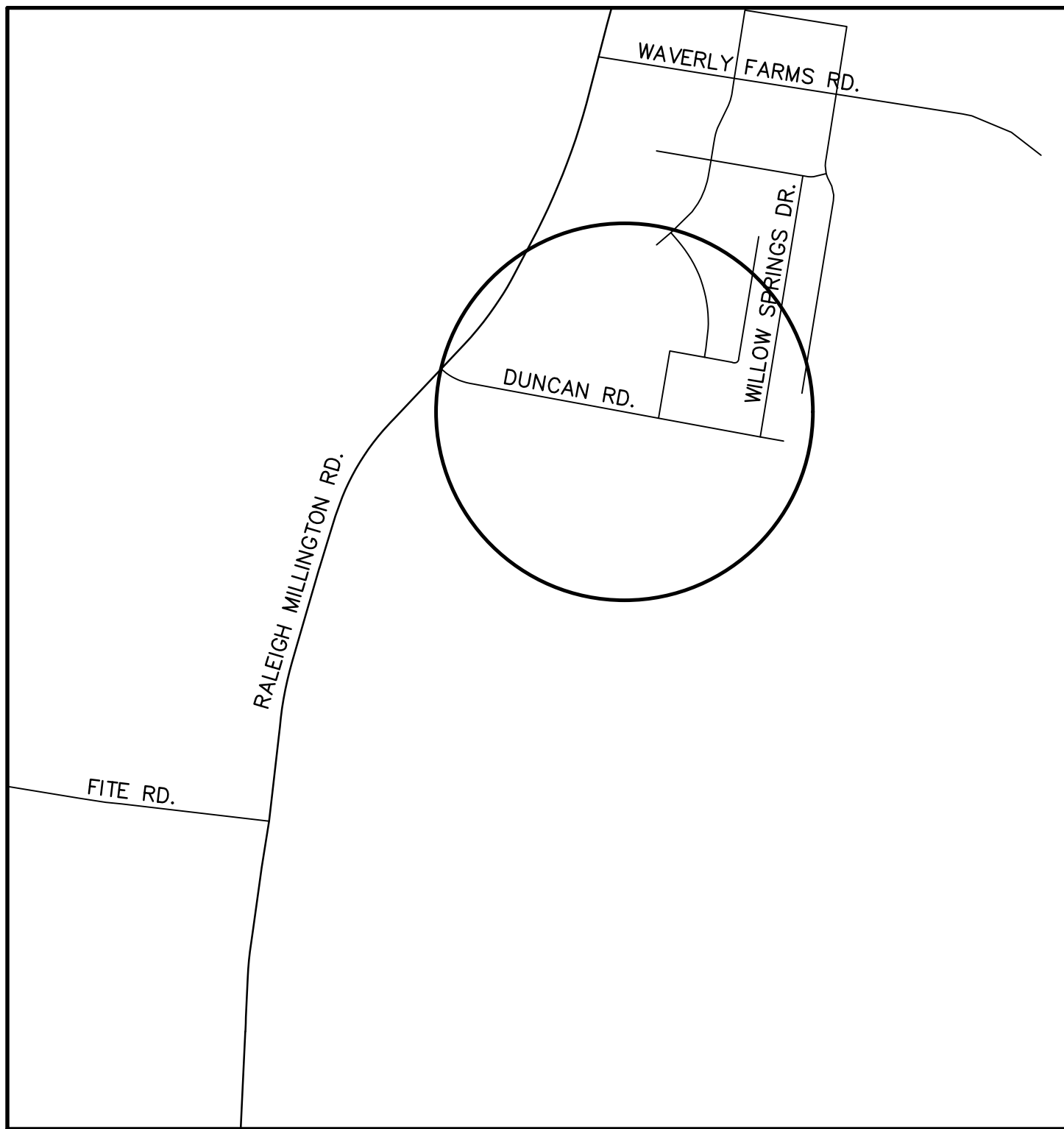
SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP10) CITY OF MEMPHIS

DUNCAN ROAD SANITARY SEWER IMPROVEMENTS

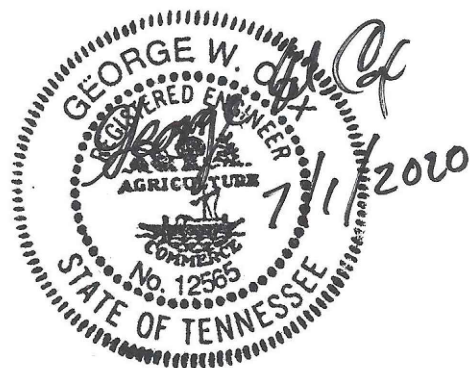
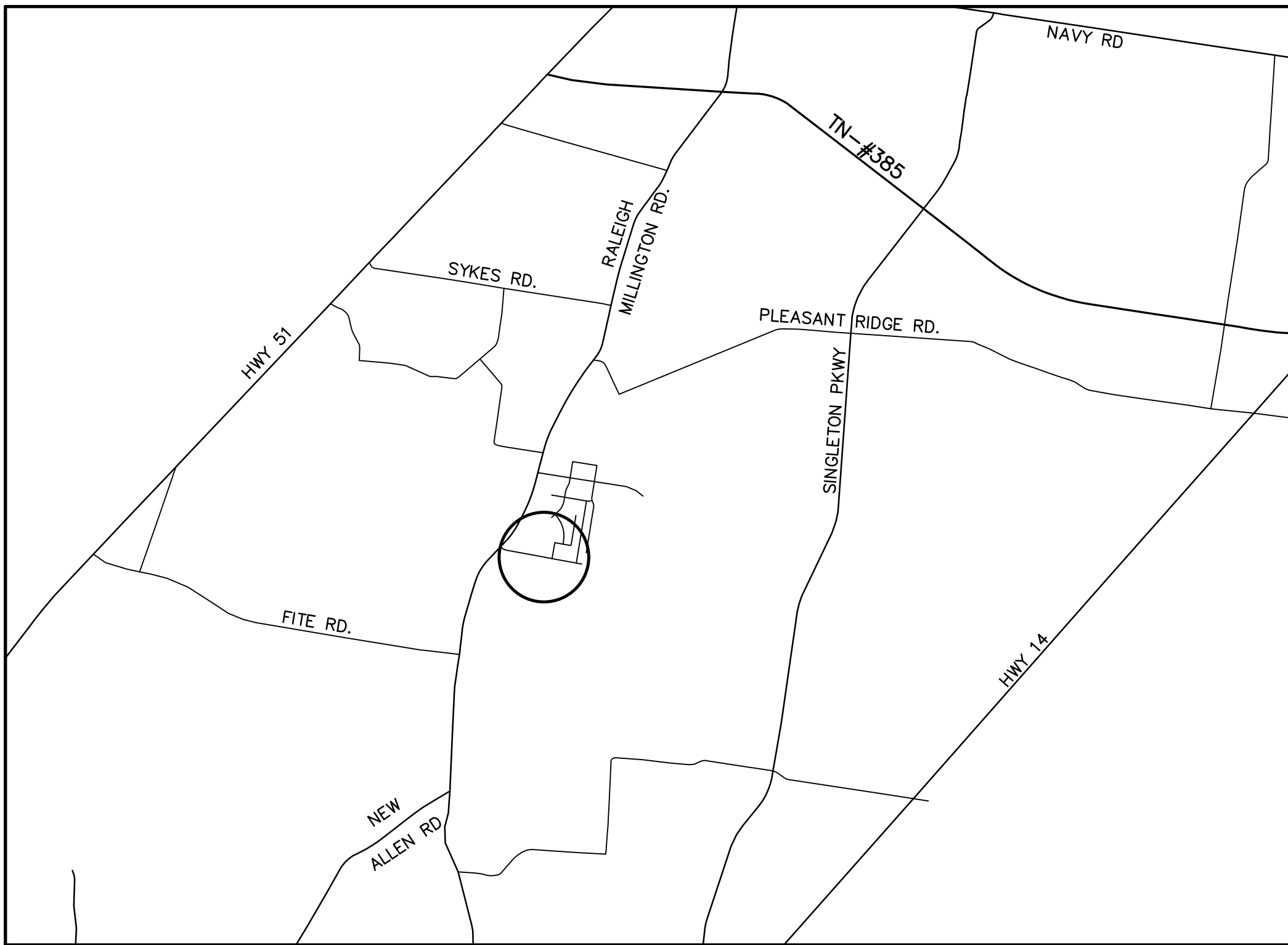
INDEX OF SHEETS

C1.00	COVER SHEET
C1.01	GENERAL NOTES
C1.02	STANDARD DETAILS
C2.01	EROSION PROTECTION & SEDIMENT CONTROL
C3.01	EXISTING CONDITIONS PLAN
C3.02	OFFSTREET SEWER PLAN
C3.03	OFFSTREET SEWER PLAN & PROFILE
C3.04	OFFSTREET SEWER PLAN & PROFILE

DUNCAN ROAD PROJECT LOCATION



DUNCAN ROAD PROJECT AREA LOCATION



GENERAL NOTES

LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.

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THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.

NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.

EROSION CONTROL NOTES:

ALL SPOIL MATERIAL FROM SEWER TRENCHES SHALL BE REMOVED FROM THE WORK SITE IN A TIMELY MANNER.

SEE SHEETS C2.01 & C2.02 FOR ADDITIONAL EROSION CONTROL DETAILS.

ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.

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CONTRACTOR MUST LAY THE SEWER LINES SHOWN HEREON TO THE SPECIFIED GRADE. SEWER LINES LAID TO A GRADE LESS THAN THE MINIMUM GRADE OF 0.40% WILL BE REMOVED FROM THE GROUND AND LAID TO THE SPECIFIED GRADE. ANY UPSTREAM LINES AFFECTED BY THE REWORK SHALL BE RECONSTRUCTED AS REQUIRED.

ACCEPTANCE OR REJECTION OF SEWER LINES WILL BE BASED ON AS-BUILT SURVEY. AS-BUILT SURVEY WILL TAKE PLACE AS SOON AS PRACTICAL AFTER MANHOLES ARE BUILT AND LINES CAN BE TESTED FOR ACCEPTANCE.

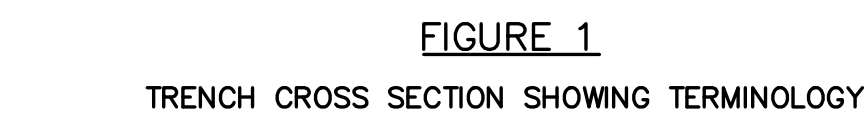
TRAFFIC CONTROL NOTES:

THERE ARE NO TRAFFIC CONTROL PLANS FOR THIS PROJECT.

IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) THE TYPICAL APPLICATIONS THAT SHOULD BE USED ARE (BUT ARE NOT NECESSARILY LIMITED TO) TA-4 AND TA-6.

THESE PLANS DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D.

REVISIONS <table><tr><th>DATE</th><th>DESCRIPTIONS</th><th>APPROVED</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>			DATE	DESCRIPTIONS	APPROVED																													SHEET 1 OF 1 SEWER BASIN: LN-03 DIVISION OF ENGINEERING GENERAL NOTES	DWG NO. C1.01
DATE	DESCRIPTIONS	APPROVED																																	
DUNCAN ROAD SANITARY SEWER IMPROVEMENTS DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.			FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT. TO: 0.15 MI. E OF RALEIGHT MILLINGTON RD & DUNCAN RD INT. MEMPHIS, TENN. SURVEY: GEODESY DATE: 3/2019 BOOK: 6418-8 DRAFTED: WBW DATE: 06/2020 SCALE: N/A DESIGNED: WWL DATE: 07/2020 CHECKED: GC DATE: 07/2020																																



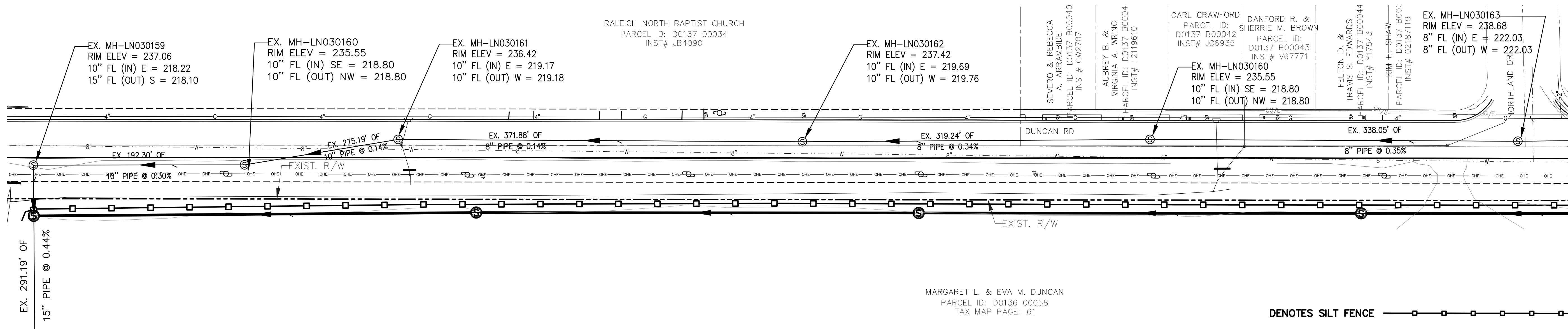
1. INSTALL CRUSHED LIMESTONE ASTM D-448-54 TABLE 1, #67 FOR PIPE EMBEDMENT MATERIAL. THE QUANTITY OF CRUSHED LIMESTONE FOR PIPE EMBEDMENT IS INCIDENTAL TO THE SEWER PIPE INSTALLATION AND NO SEPARATE PAYMENT WILL BE MADE.
2. INSTALL FINAL BACKFILL AS PER SPEC. SECTION 02530.

SECTION A-A



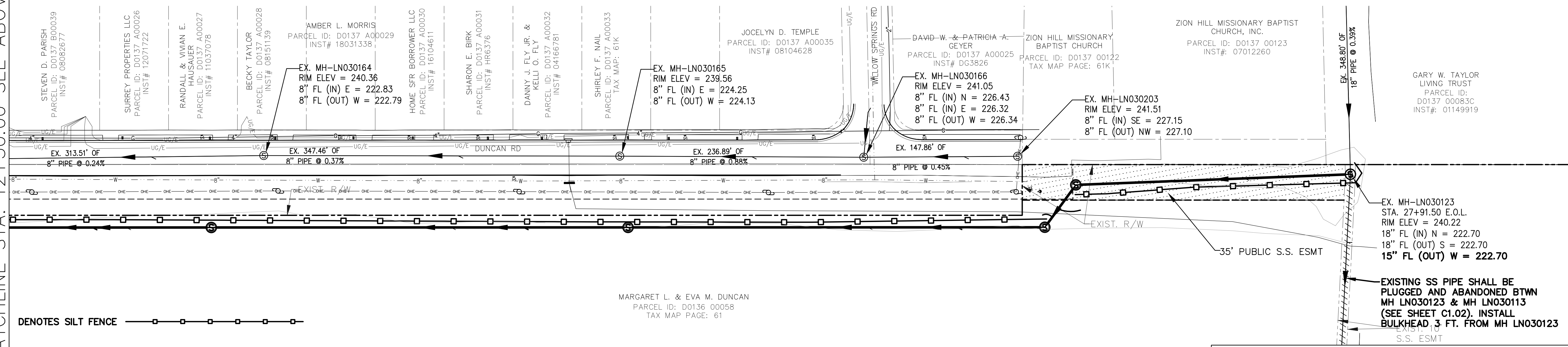
SHEET 1 OF 1		DWG. NO.
SEWER BASIN: LN-03		C1.02
DIVISION OF ENGINEERING		
STANDARD DETAILS		
FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.		
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MEMPHIS, TENN.		
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DUNCAN ROAD SANITARY SEWER
IMPROVEMENTS
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.



MATCHLINE STA. 12+50.00 SEE BELOW

MATCHLINE STA. 12+50.00 SEE ABOVE



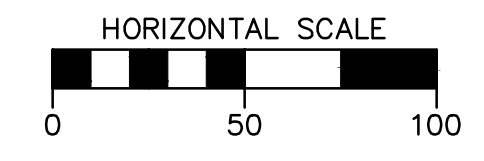
EROSION PROTECTION & SEDIMENT CONTROL PLAN

PHASE 1

1. PLACE SILT FENCE ALONG PROPOSED SEWER LINE ALIGNMENT AND WITHIN THE EXISTING RIGHT OF WAY OR PROPOSED PUBLIC SANITARY SEWER EASEMENT.

PHASE 2

1. REMOVE ALL SEDIMENT TRAPPED BEHIND THE LENGTH OF THE SILT FENCE AND DISPOSE OF PROPERLY.
2. SEED ALL DISTURBED AREAS AND PROTECT WITH EROSION CONTROL MULCH
3. REMOVE SILT FENCE ONCE ADEQUATE VEGETATIVE GROW IS REACHED

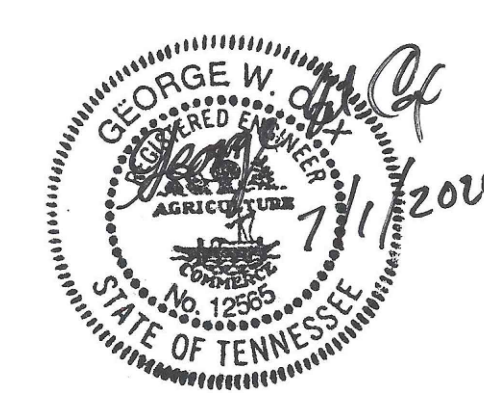


BENCHMARK

BASIS OF ELEVATIONS NAVD 88 CITY BM #1131 - LOCATED ON THE E. SIDE OF VICTORY LN (TAY-FOR DR.), 0.75 MILES N. OF FITE RD., 3' S. OF A CHAIN LINK FENCE COR., 49' S OF THE S. END OF A 30" METAL PIPE. ELEV. 252.19

THESE PREMISES ARE LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0170F, DATED SEPTEMBER 9, 2007. 100 YR. FLOOD ELEV. ± 238.0

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



DUNCAN ROAD SANITARY SEWER IMPROVEMENTS

DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1
SEWER BASIN: LN-03

DIVISION OF ENGINEERING
EROSION PROTECTION & SEDIMENT CONTROL

FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.
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MEMPHIS, TENN.

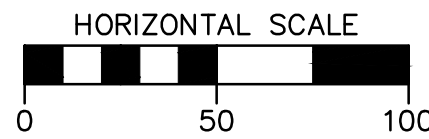
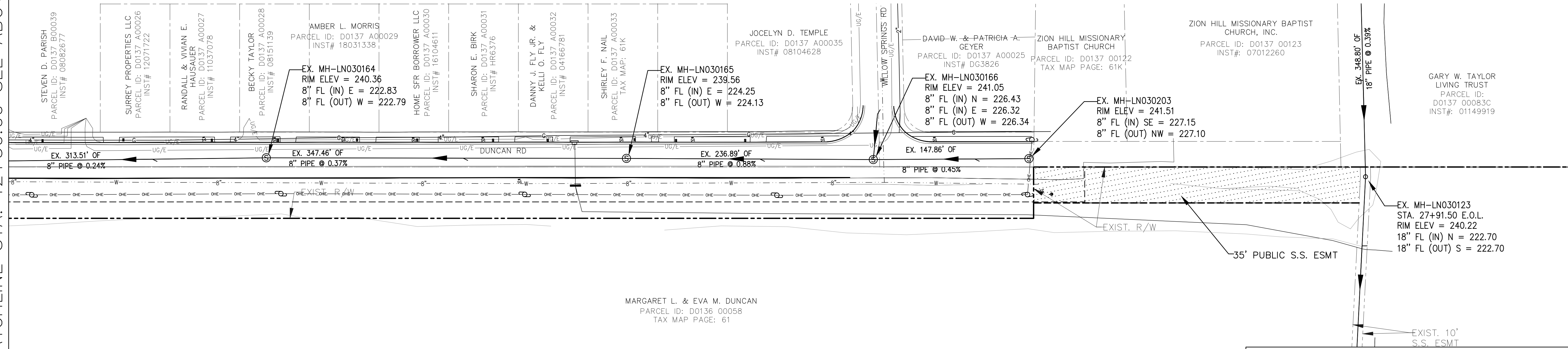
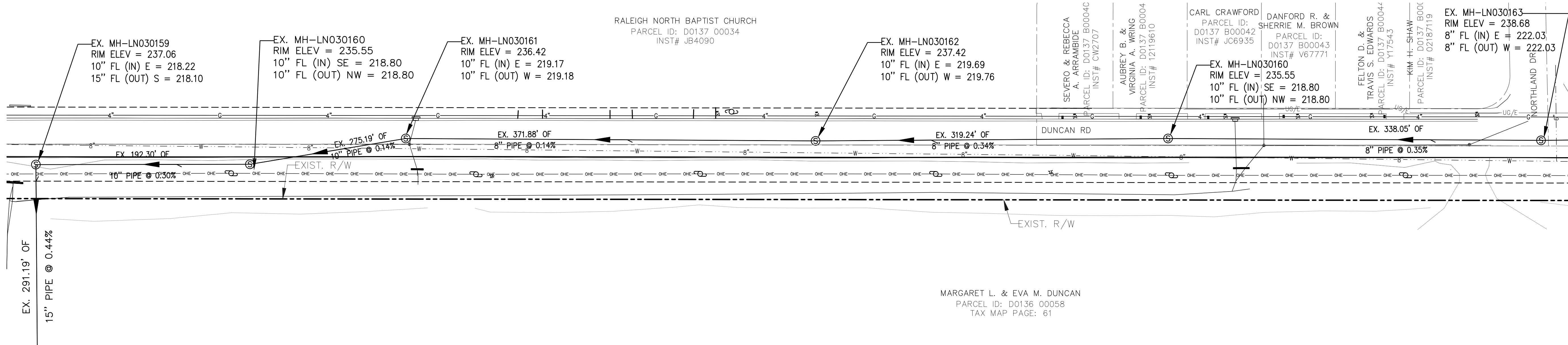
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DESIGNED: WWL DATE: 07/2020 CHECKED: GC DATE: 07/2020
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

DWG NO.
C2.01

MATCHLINE STA. 12+50.00 SEE ABOVE

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DUNCAN ROAD SANITARY
SEWER IMPROVEMENTS
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 2
SEWER BASIN: LN-03

DIVISION OF ENGINEERING

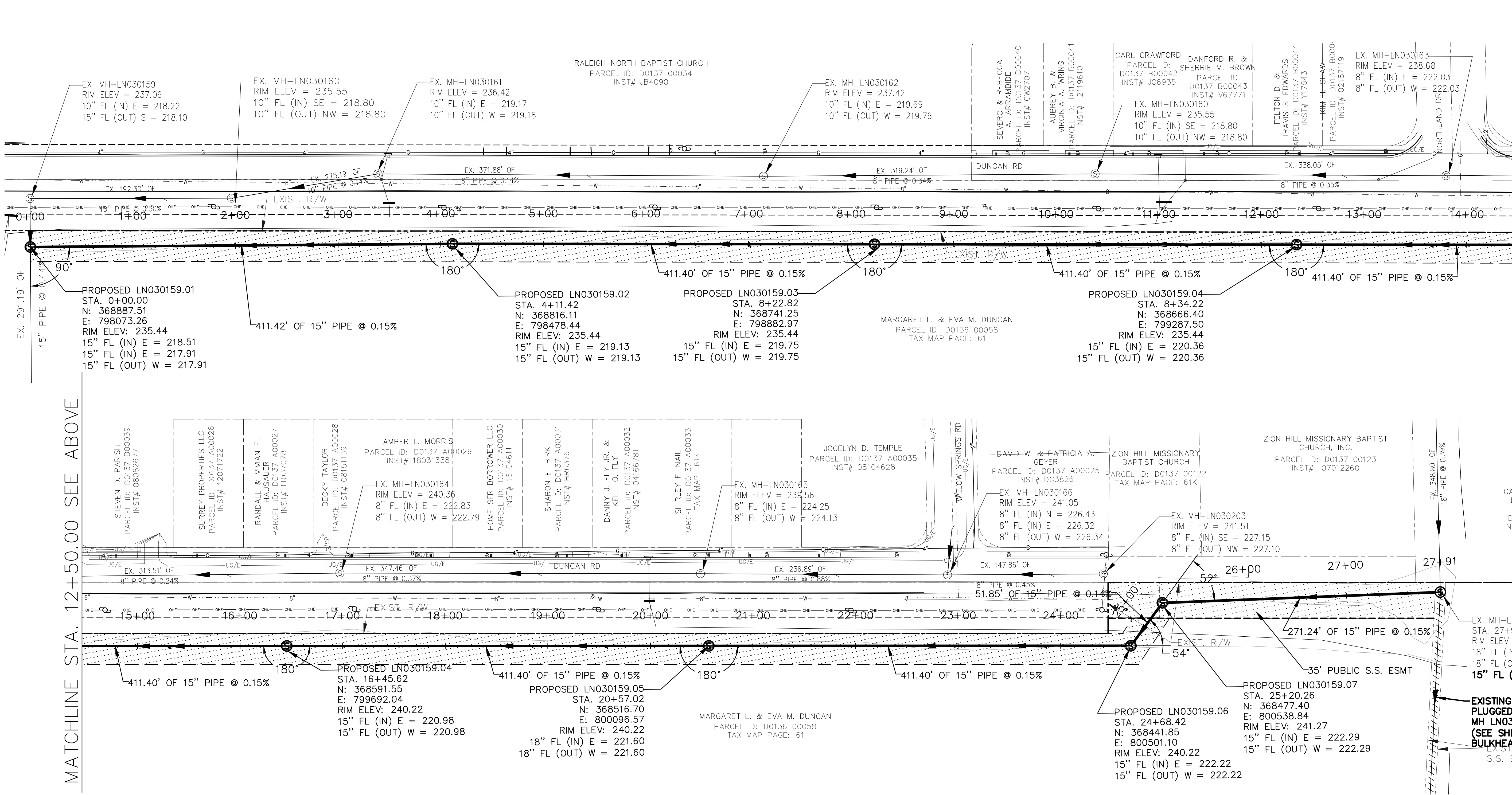
EXISTING CONDITIONS PLAN

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DWG NO.
C3.01



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DEVELOPER UNDERSTANDS AND ACCEPTS THAT ANY STRUCTURE (INCLUDING TEMPORARY OR PERMANENT RETAINING WALLS, CURB & GUTTER, FENCES, PADS AND ETC.) BUILT OVER PUBLIC SEWER LINES, WHETHER SHOWN ON PLANS OR NOT, WILL BE REMOVED AS REQUIRED BY THE CITY IN THE EVENT ACCESS IS NEEDED TO THE SANITARY SEWER LINE UNDER SUCH STRUCTURE WITH NO REPLACEMENT OF SUCH STRUCTURE BY THE CITY.

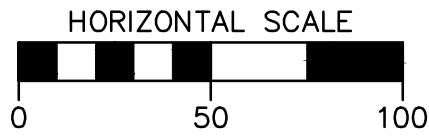
PRIVATE SEWER CERTIFICATE

THE ENGINEER WHOSE SEAL AND SIGNATURE APPEAR BELOW HEREBY ACCEPTS THE RESPONSIBILITY FOR INSPECTION OF THE PRIVATE SANITARY SEWER SYSTEM SHOWN HEREON. AFTER ALL OF THE SYSTEM IS INSTALLED AND TESTED, THE ENGINEER WILL PROVIDE THE MEMPHIS AND SHELBY COUNTY OFFICE OF CODE ENFORCEMENT WITH A LETTER CERTIFYING THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS OR, WHERE NO LOCAL STANDARDS EXIST, THE STANDARDS OF THE STATE OF TENNESSEE. NO PRIVATE SANITARY SEWER SYSTEM IS TO BE USED EXCEPT FOR TESTING UNTIL THIS CERTIFICATION HAS BEEN SUBMITTED AND ACCEPTED BY CODE ENFORCEMENT.

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE **TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL**. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.



BENCHMARK

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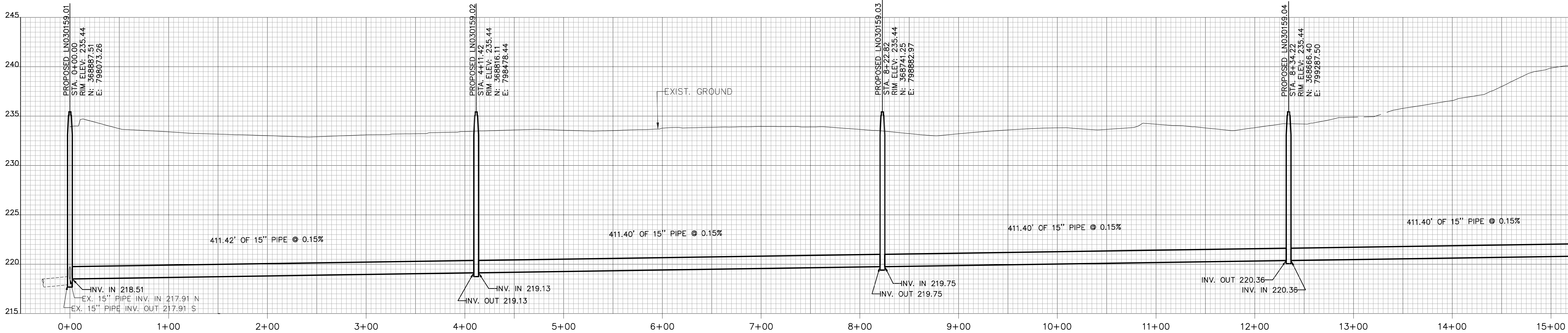
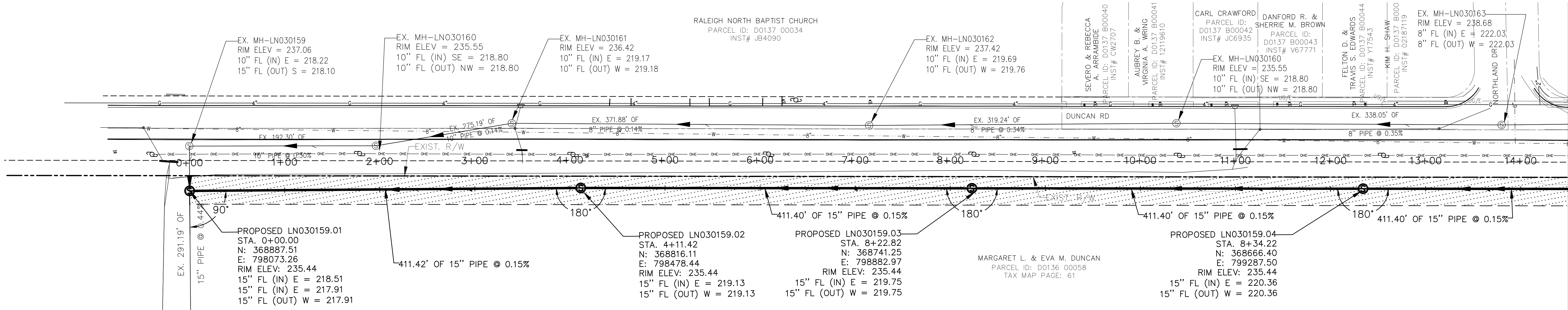
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DUNCAN ROAD SANITARY SEWER IMPROVEMENTS
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1 SEWER BASIN: LN-03		DWG NO. C3.02
DIVISION OF ENGINEERING SEWER PLAN		
FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT. TO: 0.15 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.		
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MANHOLES LOCATED WITHIN THE 100-YEAR FLOOD PLAIN SHOULD EXTEND A MINIMUM OF 12" (1'-0") ABOVE THE 100-YEAR FLOOD LEVEL IRREGARDLESS OF WHETHER THE MANHOLE IS IN RESIDENTIAL, COMMERCIAL, OR RURAL PROPERTY. AS AN ALTERNATIVE, A MANHOLE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN MUST HAVE A SEALED COVER AND VENT STACK IF IT EXTENDS LESS THAN THE MINIMUM 12" ABOVE THE 100-YEAR FLOOD LEVEL. WITHIN THIS ALTERNATIVE THE VENT STACKS COULD BE LIMITED TO EVERY OTHER MANHOLE IF LOCATED WITHIN A RESIDENTIAL AREA.

DEVELOPER UNDERSTANDS AND ACCEPTS THAT ANY STRUCTURE (INCLUDING TEMPORARY OR PERMANENT RETAINING WALLS, CURB & GUTTER, FENCES, PADS AND ETC.) BUILT OVER PUBLIC SEWER LINES, WHETHER SHOWN ON PLANS OR NOT, WILL BE REMOVED AS REQUIRED BY THE CITY IN THE EVENT ACCESS IS NEEDED TO THE SANITARY SEWER LINE UNDER SUCH STRUCTURE WITH NO REPLACEMENT OF SUCH STRUCTURE BY THE CITY.

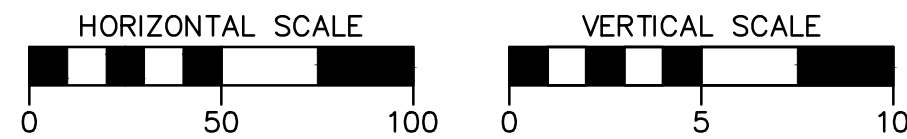
PRIVATE SEWER CERTIFICATE

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APPROVED FOR CONSTRUCTION

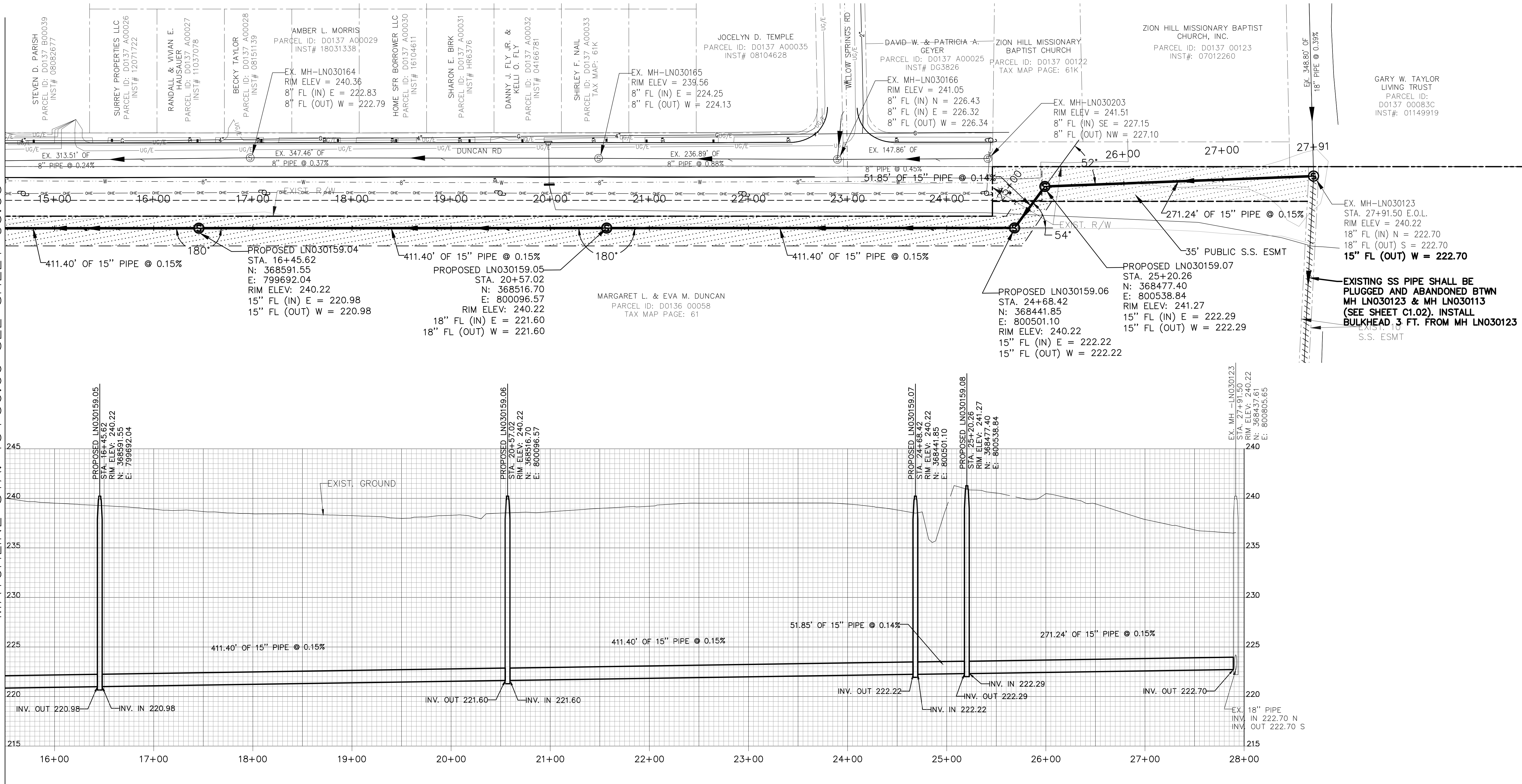
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REVISIONS				SHEET 1 OF 2	DWG NO.
DATE	DESCRIPTIONS	APPROVED		SEWER BASIN: LN-03	C3.03
				DIVISION OF ENGINEERING	
				SEWER PLAN & PROFILE	
				FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT. TO: 0.15 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.	
				MEMPHIS, TENN. SURVEY: GEODESY DATE: 01/2019 BOOK: DRAFTED: WBW DATE: 06/2020 SCALE: 1"=50'H 5'V DESIGNED: WWL DATE: 07/2020 CHECKED: GC DATE: 07/2020 REVIEWED	
DUNCAN ROAD SANITARY SEWER IMPROVEMENTS DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.			DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE		

MATCHLINE STA. 15+50.00 SEE SHEET C3.03



TYPICAL CONSTRUCTION NOTES

LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.

CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT **636-2462** A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.

ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.

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ALL SANITARY SEWER TO BE CONSTRUCTED AS PER SARP10 CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.

ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.

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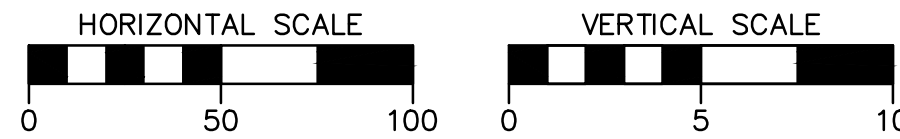
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DATE	DESCRIPTIONS	APPROVED



DUNCAN ROAD SANITARY
SEWER IMPROVEMENTS
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

BENCHMARK

BASIS OF ELEVATIONS NAVD 88 CITY BM #1131 - LOCATED ON THE E. SIDE OF VICTORY LN (TAY-FOR DR.), 0.75 MILES N. OF FITE RD., 3' S. OF A CHAIN LINK FENCE COR., 49' S OF THE S. END OF A 30" METAL PIPE. ELEV. 252.19

THESE PREMISES ARE LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0170F, DATED SEPTEMBER 9, 2007. 100 YR. FLOOD ELEV. ± 238.0

SHEET 2 OF 2
SEWER BASIN: LN-03

DIVISION OF ENGINEERING

OFFSTREET SEWER PLAN & PROFILE

FROM: 0.63 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.
TO: 0.15 MI. E OF RALEIGH MILLINGTON RD & DUNCAN RD INT.

MEMPHIS, TENN.

SURVEY: GEODESY DATE: 01/2019 BOOK:
DRAFTED: WBW DATE: 06/2020 SCALE: 1"=50'H 5'V
DESIGNED: WWL DATE: 07/2020 CHECKED: GC DATE: 07/2020
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

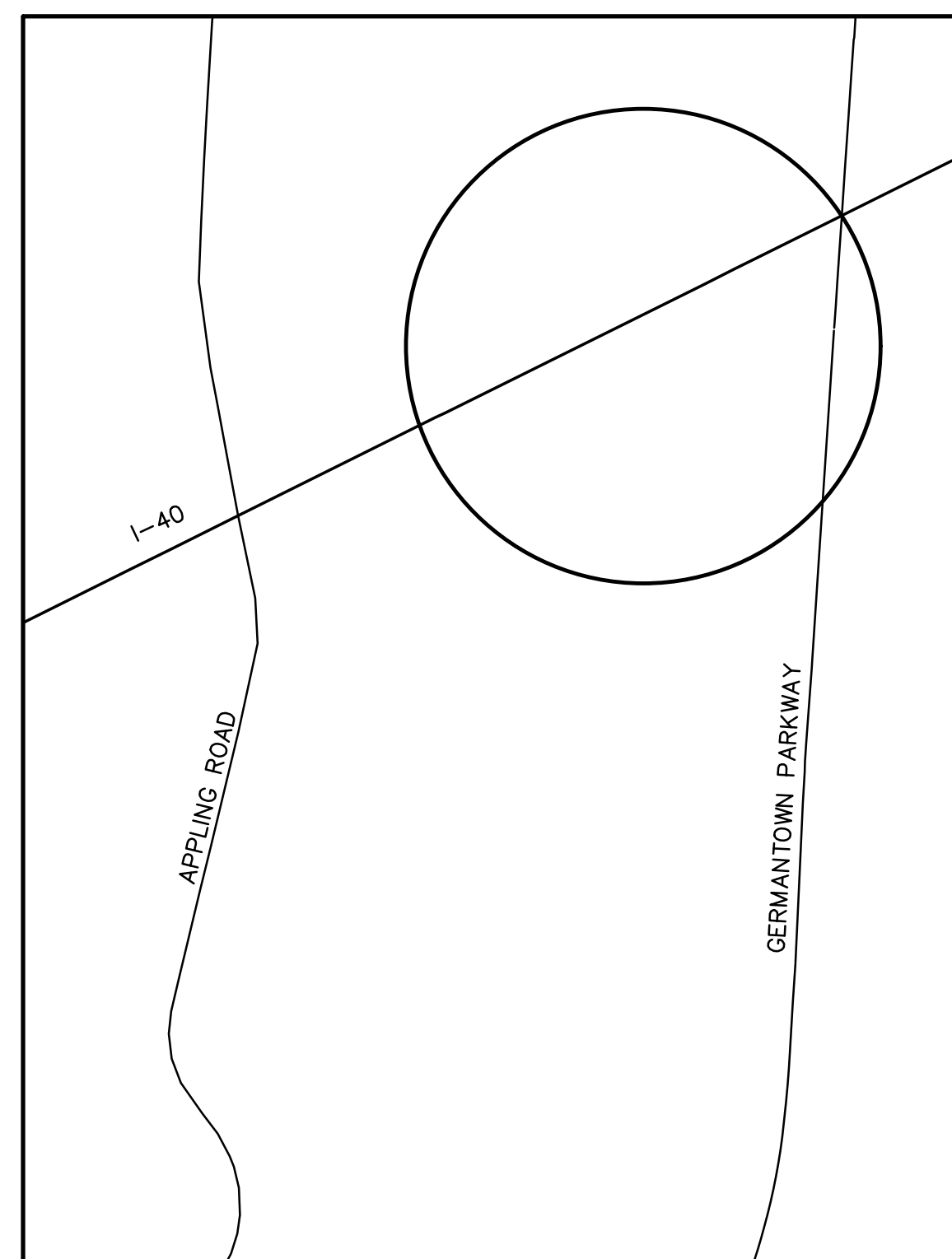
SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP10) CITY OF MEMPHIS

GRAVITY SEWER IMPROVEMENTS ADDITION & ABANDONMENT

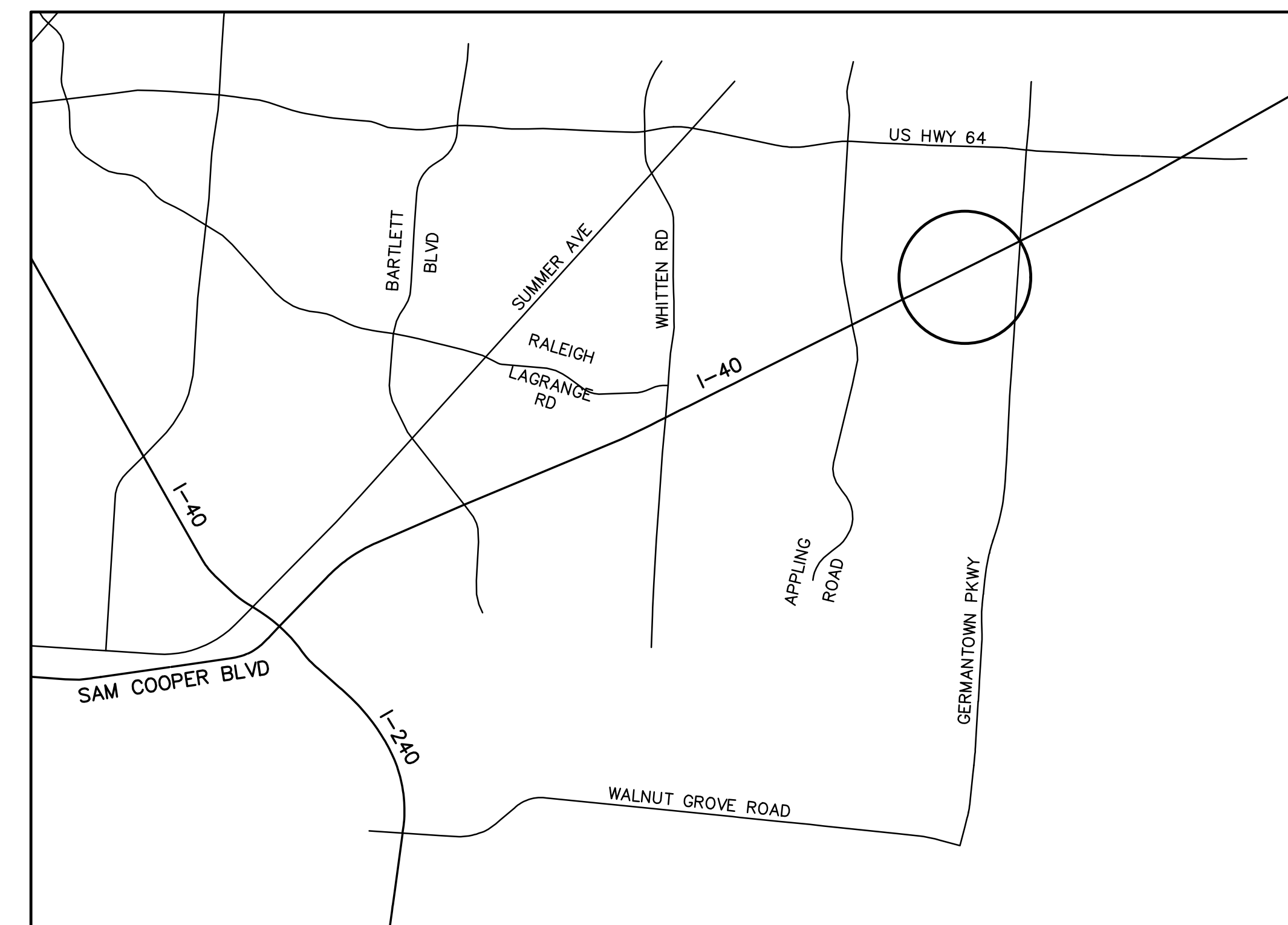
INDEX OF SHEETS

C1.00	COVER SHEET
C1.01	GENERAL NOTES
C1.02	STANDARD DETAILS
C2.01	EROSION PROTECTION & SEDIMENT CONTROL
C3.01	EXISTING CONDITIONS PLAN
C3.02	PROPOSED SEWER PLAN
C3.03	PROPOSED SEWER PLAN & PROFILE

GRAVITY SEWER IMPROVEMENTS ADDITION &
ABANDONMENT PROJECT LOCATION



GRAVITY SEWER IMPROVEMENTS ADDITION &
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EROSION CONTROL NOTES:

ALL SPOIL MATERIAL FROM SEWER TRENCHES SHALL BE REMOVED FROM THE WORK SITE IN A TIMELY MANNER.

SEE SHEET C2.01 FOR ADDITIONAL EROSION CONTROL DETAILS.

ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.

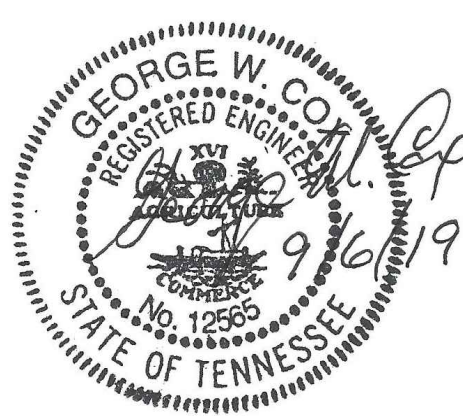
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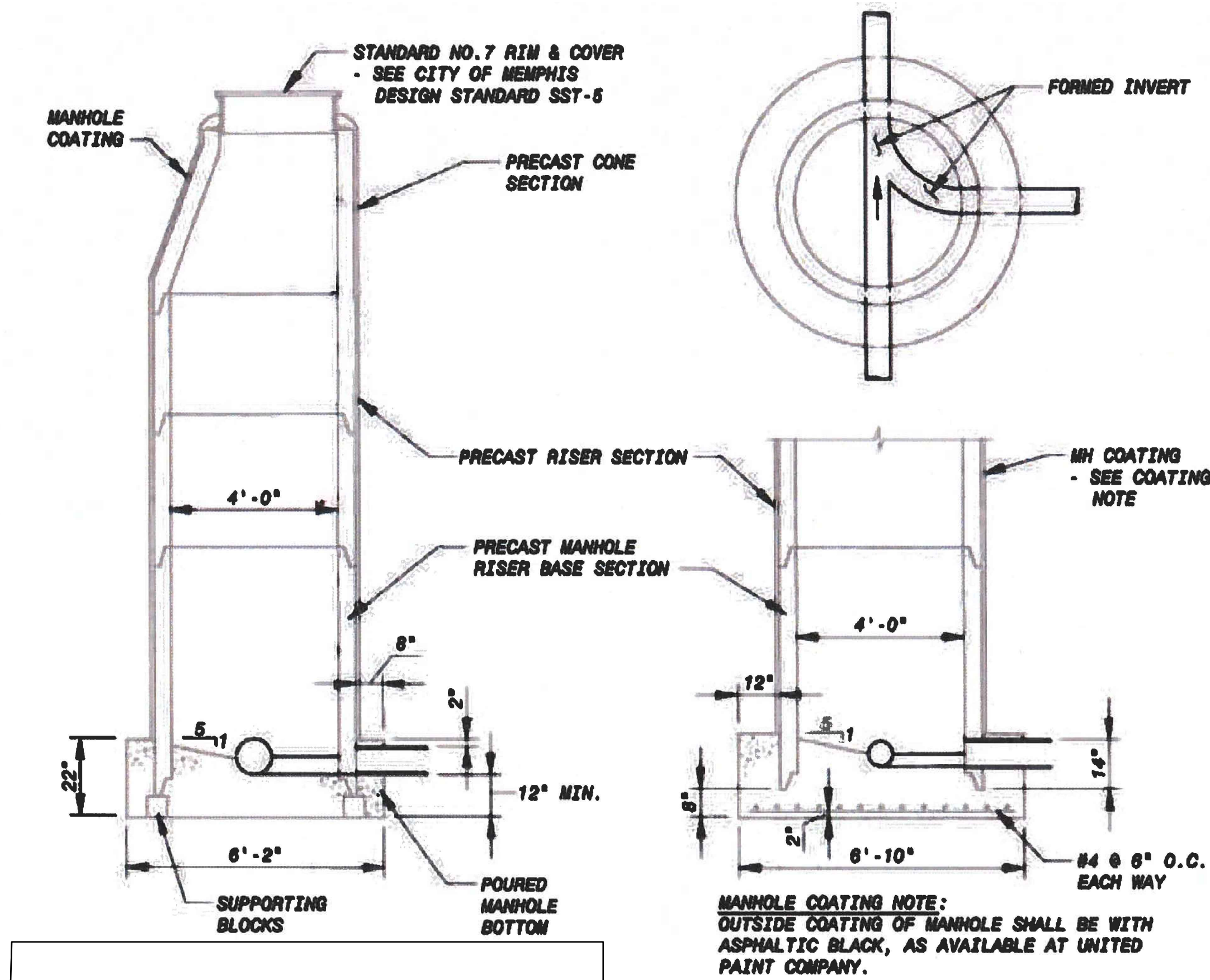
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CONTRACTOR MUST LAY THE SEWER LINES SHOWN HEREON TO THE SPECIFIED GRADE. SEWER LINES LAID TO A GRADE LESS THAN THE MINIMUM GRADE OF 0.40% WILL BE REMOVED FROM THE GROUND AND LAID TO THE SPECIFIED GRADE. ANY UPSTREAM LINES AFFECTED BY THE REWORK SHALL BE RECONSTRUCTED AS REQUIRED.

ACCEPTANCE OR REJECTION OF SEWER LINES WILL BE BASED ON AS-BUILT SURVEY. AS-BUILT SURVEY WILL TAKE PLACE AS SOON AS PRACTICAL AFTER MANHOLES ARE BUILT AND LINES CAN BE TESTED FOR ACCEPTANCE.

REVISIONS <table><tr><th>DATE</th><th>DESCRIPTIONS</th><th>APPROVED</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>			DATE	DESCRIPTIONS	APPROVED																													SHEET 1 OF 1 SEWER BASIN: WN-10 DIVISION OF ENGINEERING GENERAL NOTES FROM: 0.47 MI. WSW OF I-40 & GERMANTOWN PKWY INT. TO: 0.67 MI. WSW OF I-40 & GERMANTOWN PKWY INT. MEMPHIS, TENN. SURVEY: GEODESY DATE: 3/2019 BOOK: 6418-8 DRAFTED: WBW DATE: 09/2019 SCALE: N/A DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019	DWG NO. C1.01
DATE	DESCRIPTIONS	APPROVED																																	
GRAVITY SEWER IMPROVEMENTS ADDITION & ABANDONMENT DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.																																			

STANDARD DETAILS



**TYPICAL PRECAST
MANHOLE**

JOINT SEALANT: CONCRETE MORTAR SHALL BE USED TO SEAL JOINTS AFTER THE INSTALLATION OF AN APPROVED GASKET MATERIAL BETWEEN ALL PRECAST MANHOLE SECTIONS.

BASE SECTIONS: MANHOLE BOTTOM SHALL NOT BE POURED UNTIL PRECAST BASE SECTION OF MANHOLE AND PIPE STUBS OUT & IN ARE IN PLACE. PIPE STUBS OUTSIDE OF MANHOLE SHALL HAVE A MINIMUM LENGTH OF 12" AND A MAXIMUM LENGTH OF 15" FROM OUTSIDE OF MANHOLE TO THE FIRST JOINT OF PIPE. CONCRETE USED TO FORM BASES AND INVERTS SHALL BE 3,000 p.s.i.

SUBSTITUTES: POURED-IN-PLACE MANHOLES MAY BE SUBSTITUTED FOR PRECAST MANHOLES, PROVIDED A FORMAL, WRITTEN REQUEST HAS BEEN SUBMITTED TO & APPROVED BY THE ENGINEER OF DESIGN. ALL POURED-IN-PLACE MANHOLES SHALL CONFORM TO CITY OF MEMPHIS STANDARD DRAWINGS NO. SST-6 AND SST-7.

NOTE: MANHOLE STEPS SHALL NOT BE INSTALLED ON NEW MANHOLES.

**ALTERNATE
(MANHOLES IN EXCESS
OF 20' DEEP)**

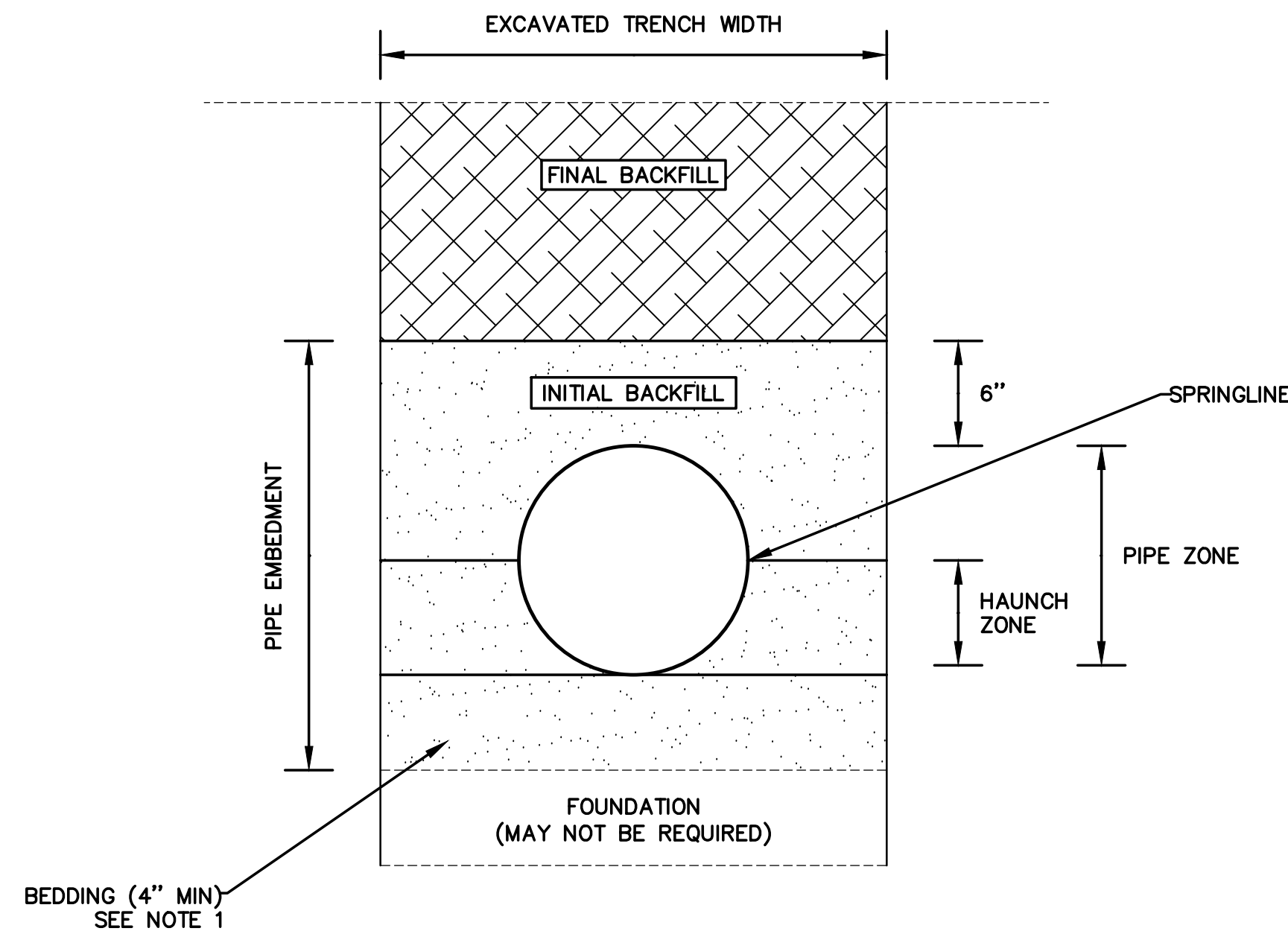
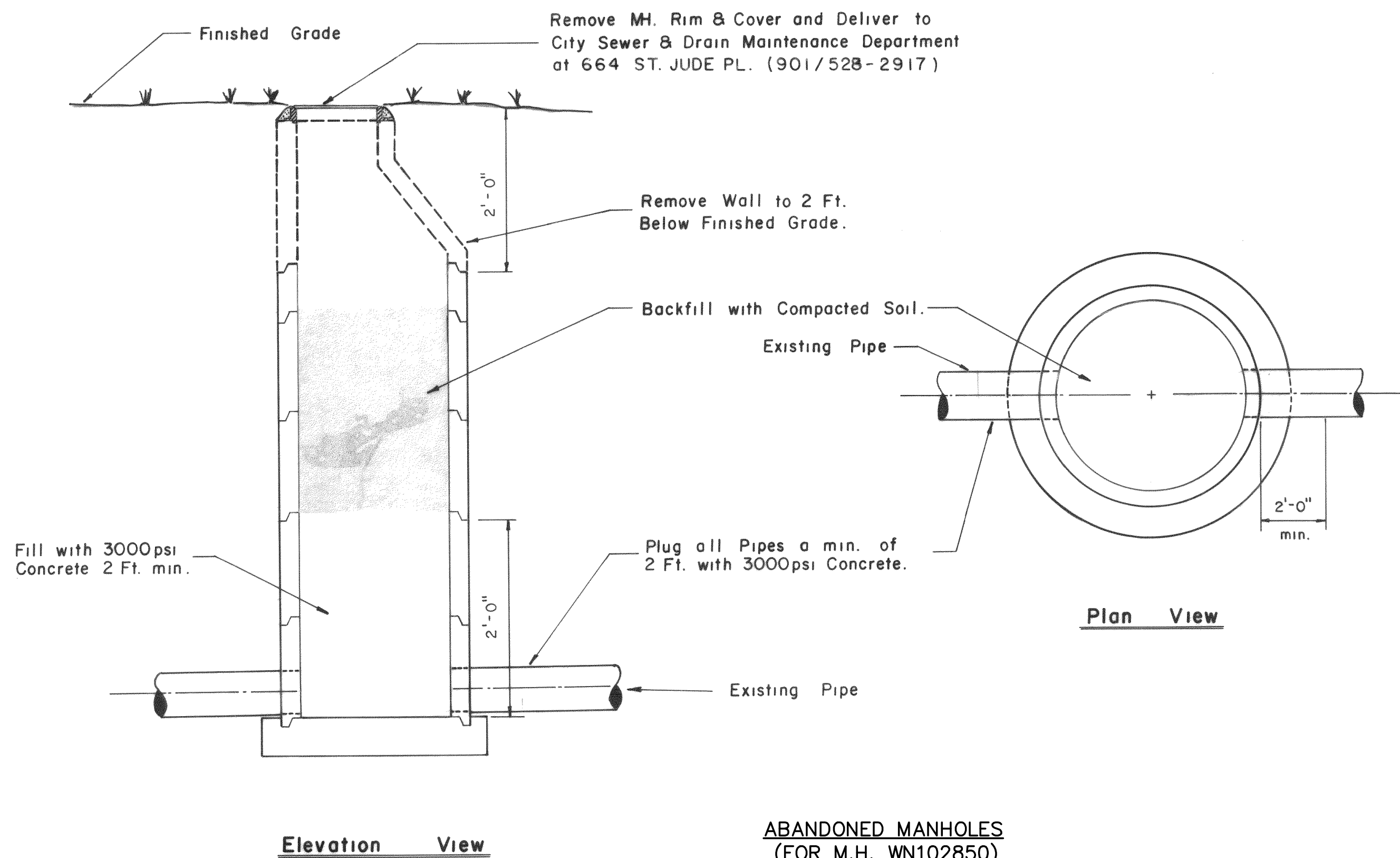


FIGURE 1
TRENCH CROSS SECTION SHOWING TERMINOLOGY

NOTES

1. INSTALL CRUSHED LIMESTONE ASTM D-448-54 TABLE 1, #67 FOR PIPE EMBEDMENT MATERIAL. THE QUANTITY OF CRUSHED LIMESTONE FOR PIPE EMBEDMENT IS INCIDENTAL TO THE SEWER PIPE INSTALLATION AND NO SEPARATE PAYMENT WILL BE MADE.
2. INSTALL FINAL BACKFILL AS PER SPEC. SECTION 02530.



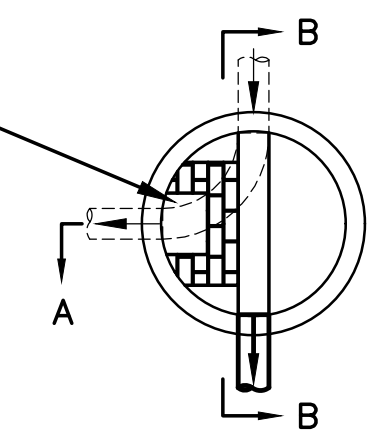
**PIPE PLUG AND BACKFILL WITH FLOWABLE FILL AT EXISTING MANHOLE
(FOR M.H.'S WN102849 & WN102850 ONLY)**

USE OPENING TO POUR
FLOWABLE FILL INTO
UPSTREAM END OF PIPE

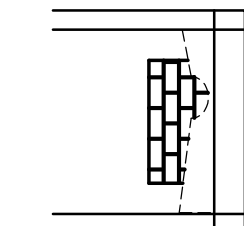
POUR FLOWABLE FILL
UP TO TOP OF BRICK

USE SAME BLOCK TECHNIQUE
FOR DOWNSTREAM END

FORMWORK MAY BE REQUIRED
TO KEEP FLOWABLE FILL FROM
OVERTOPPING BRICK ON
DOWNSTREAM END



SECTION A-A



SECTION B-B

BRICK WORK TO BE MINIMUM TWO
COURSES THICK ON ALL SIDES

BRICK HEIGHT TO BE TWICE THE DIAMETER
OF THE PIPE BEING PLUGGED

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



GRAVITY SEWER IMPROVEMENTS
ADDITION & ABANDONMENT
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1
SEWER BASIN: WN-10

DIVISION OF ENGINEERING

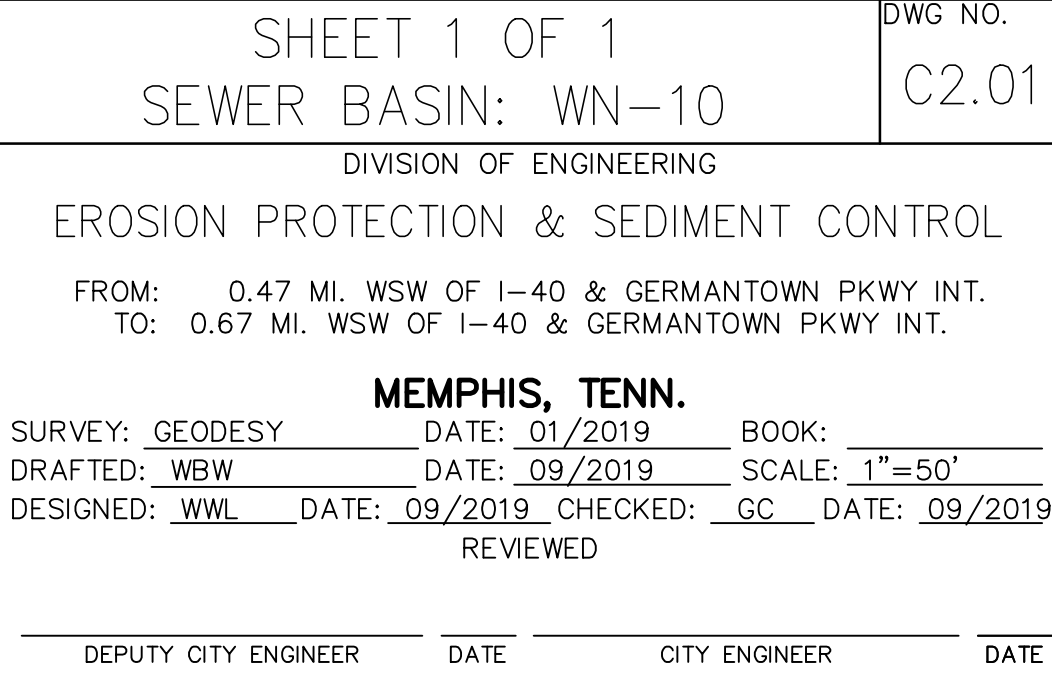
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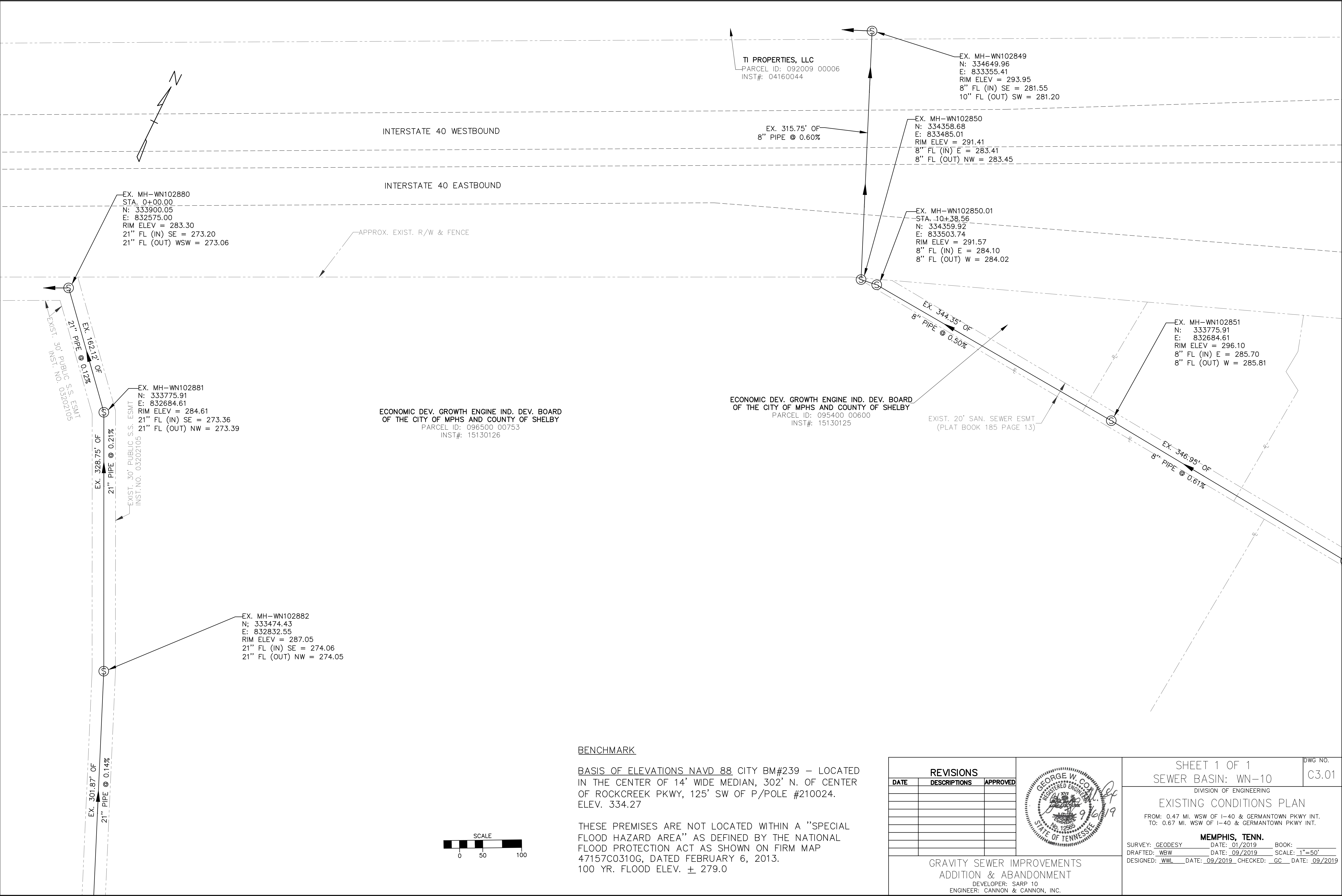
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MEMPHIS, TENN.

SURVEY: GEODESY DATE: 3/2019 BOOK: 6418-8
DRAFTED: WBW DATE: 09/2019 SCALE: N/A
DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019

DWG NO.
C1.02





BENCHMARK

BASIS OF ELEVATIONS NAVD 88 CITY BM#239 – LOCATED IN THE CENTER OF 14’ WIDE MEDIAN, 302’ N. OF CENTER OF ROCKCREEK PKWY, 125’ SW OF P/POLE #210024. ELEV. 334.27

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0310G, DATED FEBRUARY 6, 2013. 100 YR. FLOOD ELEV. ± 279.0

REVISIONS		
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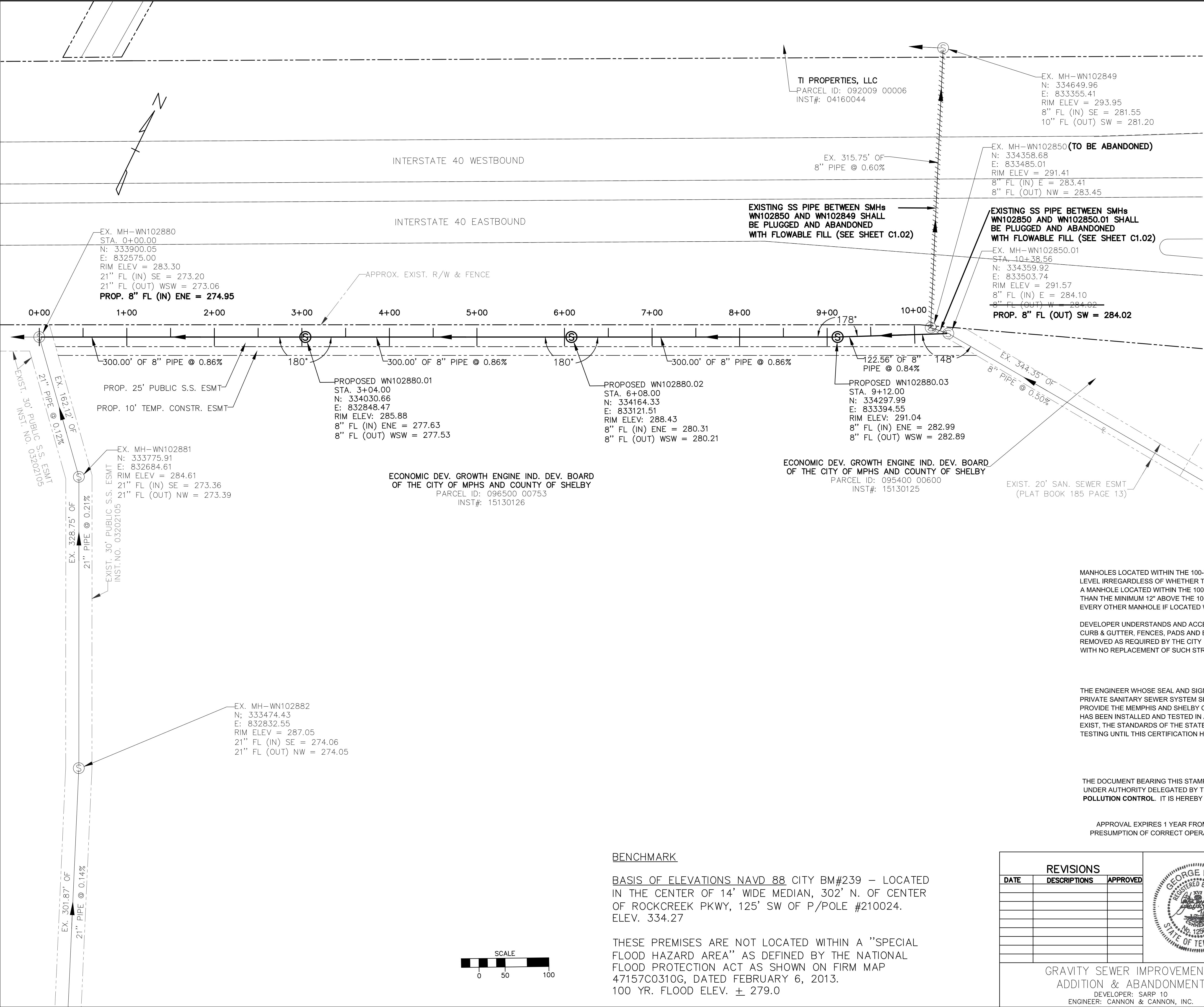
EXISTING CONDITIONS PLAN

FROM: 0.47 MI. WSW OF I-40 & GERMANTOWN PKWY INT.
TO: 0.67 MI. WSW OF I-40 & GERMANTOWN PKWY INT.

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SURVEY: GEODESY DATE: 01/2019 BOOK:
DRAFTED: WBW DATE: 09/2019 SCALE: 1"=50'
DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019

DWG NO.
C3.01



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CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT **636-2462** A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.

ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.

THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.

ALL SANITARY SEWER TO BE CONSTRUCTED AS PER SARP10 CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.

ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.

ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.

THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.

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ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.

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PRIVATE SEWER CERTIFICATE

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APPROVED FOR CONSTRUCTION

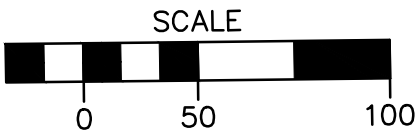
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BENCHMARK

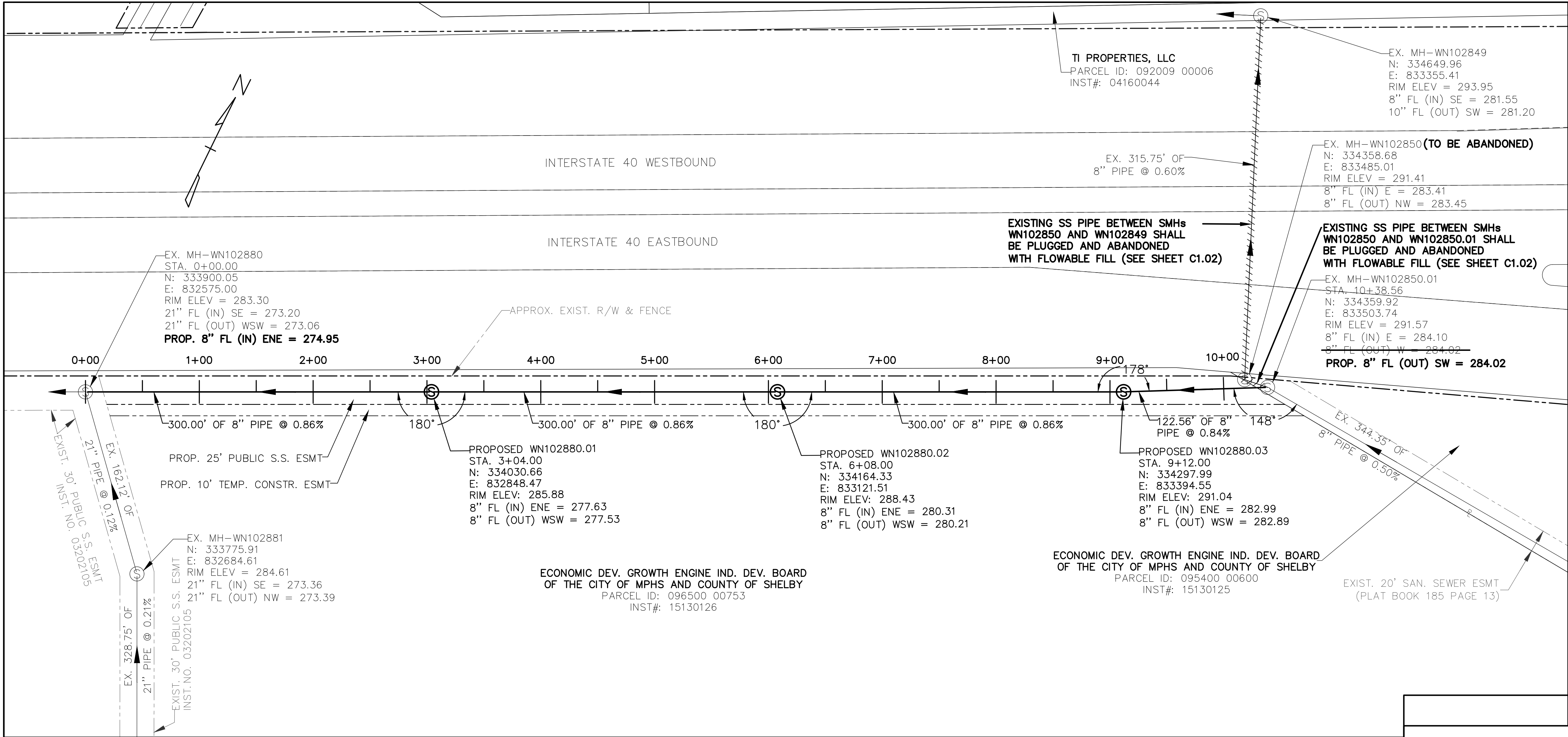
BASIS OF ELEVATIONS NAVD 88 CITY BM#239 – LOCATED IN THE CENTER OF 14' WIDE MEDIAN, 302' N. OF CENTER OF ROCKCREEK PKWY, 125' SW OF P/POLE #210024. ELEV. 334.27

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REVISIONS				SHEET 1 OF 1		DWG NO.
DATE	DESCRIPTIONS	APPROVED		SEWER BASIN: WN-10		C3.02
				DIVISION OF ENGINEERING		
				PROPOSED SEWER PLAN		
				FROM: 0.47 MI. WSW OF I-40 & GERMANTOWN PKWY INT.		
				TO: 0.67 MI. WSW OF I-40 & GERMANTOWN PKWY INT.		
				MEMPHIS, TENN.		
				SURVEY: GEODESY DATE: 01/2019 BOOK:		
				DRAFTED: WBW DATE: 09/2019 SCALE: 1"=50'		
				DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019		
			REVIEWED			
			DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE			

GRAVITY SEWER IMPROVEMENTS
ADDITION & ABANDONMENT
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.



TYPICAL CONSTRUCTION NOTES

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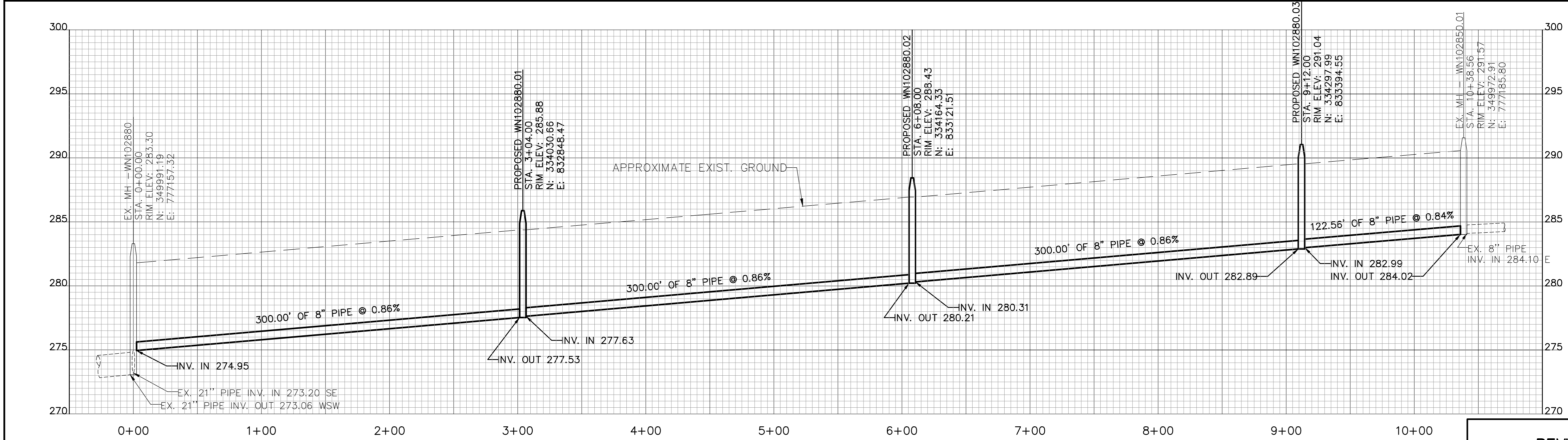
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APPROVED FOR CONSTRUCTION

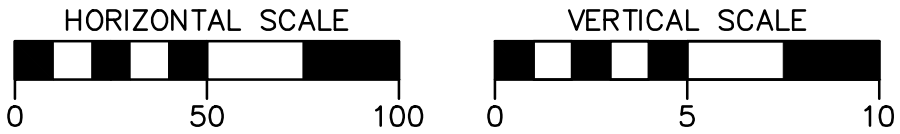
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REVISIONS		
DATE	DESCRIPTIONS	APPROVED



GRAVITY SEWER IMPROVEMENTS
ADDITION & ABANDONMENT
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1		DWG NO.
SEWER BASIN: WN-10		C3.03
DIVISION OF ENGINEERING		
PROPOSED SEWER PLAN & PROFILE		
FROM: 0.47 MI. WSW OF I-40 & GERMANTOWN PKWY INT.		
TO: 0.67 MI. WSW OF I-40 & GERMANTOWN PKWY INT.		
MEMPHIS, TENN.		
SURVEY: GEODESY	DATE: 01/2019	BOOK:
DRAFTED: WBW	DATE: 09/2019	SCALE: 1"=50'H 5'V
DESIGNED: WWL	DATE: 09/2019	CHECKED: GC DATE: 09/2019
REVIEWED		
DEPUTY CITY ENGINEER	DATE	CITY ENGINEER DATE

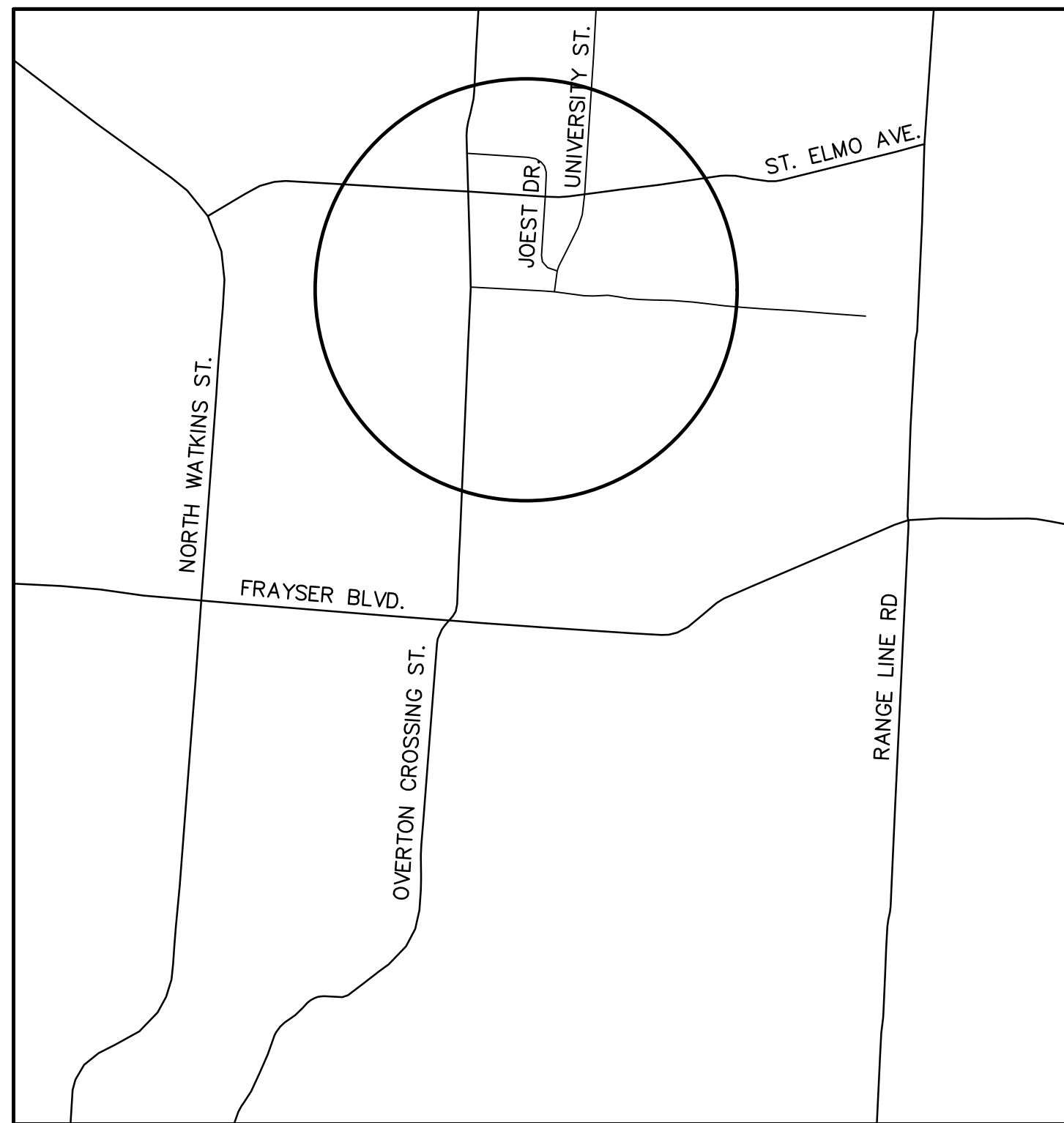
SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP10) CITY OF MEMPHIS

POINT CHURCH AVENUE SANITARY SEWER LINE ADDITION & ABANDONMENT

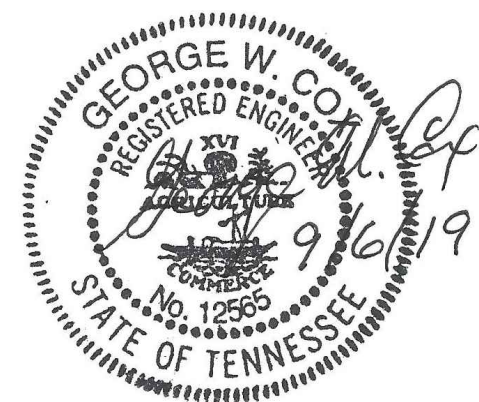
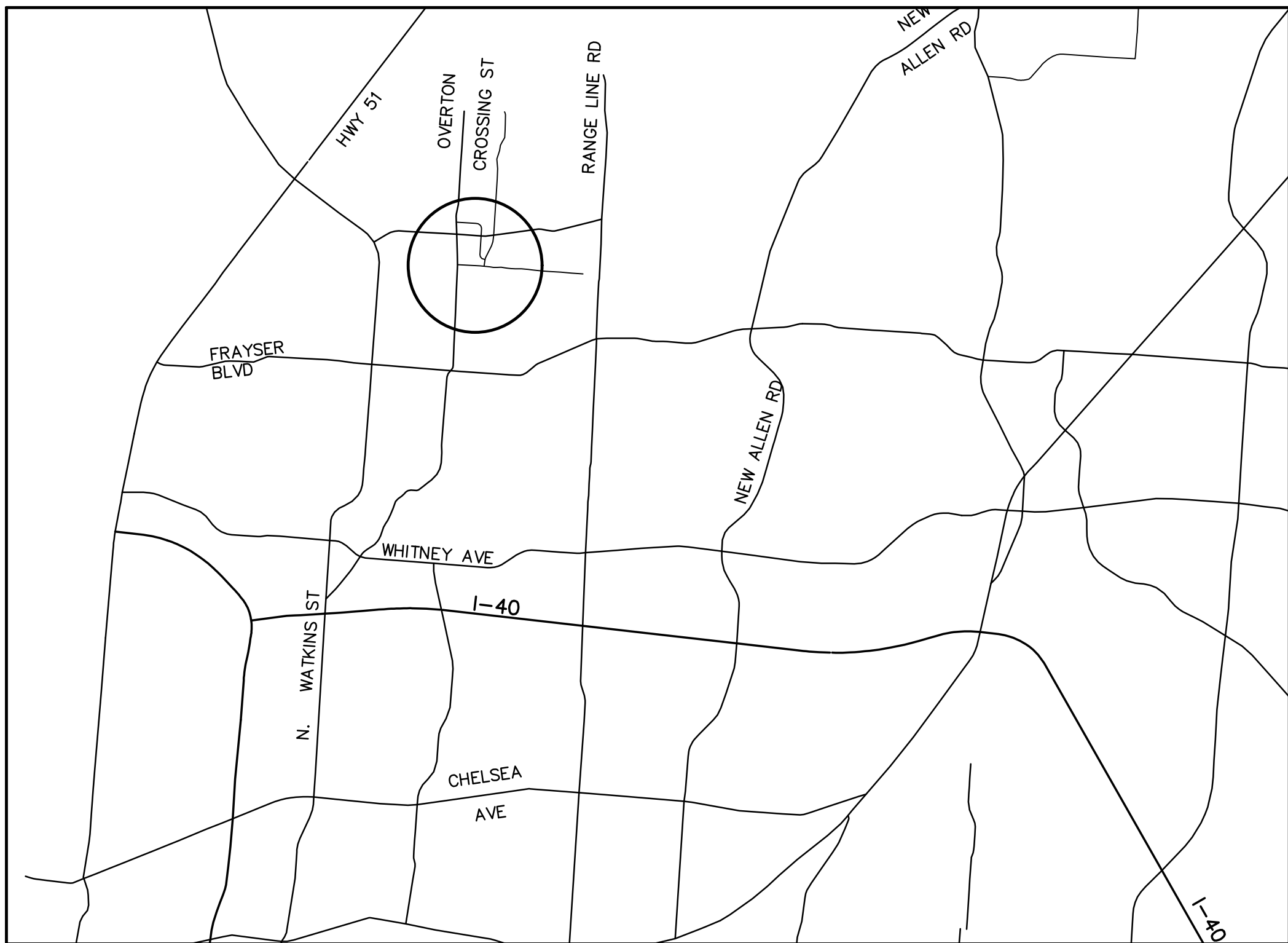
INDEX OF SHEETS

C1.00	COVER SHEET
C1.01	GENERAL NOTES
C1.02	STANDARD DETAILS
C2.01	TRAFFIC CONTROL PLAN
C2.02	TRAFFIC CONTROL PLAN
C2.03	TRAFFIC CONTROL PLAN
C2.04	TRAFFIC CONTROL PLAN
C3.01	EXISTING CONDITIONS PLAN
C3.02	PROPOSED SEWER PLAN
C3.03	PROPOSED SEWER PLAN & PROFILE

POINT CHURCH AVENUE PROJECT LOCATION



POINT CHURCH AVENUE PROJECT AREA
LOCATION



GENERAL NOTES

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EROSION CONTROL NOTES:

THERE IS NO FORMAL EROSION CONTROL PLAN FOR THIS PROJECT. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES AS PRESCRIBED BY THE TN DEPT. OF ENVIRONMENT AND CONSERVATION (TDEC) DURING CONSTRUCTION.

ALL SPOIL MATERIAL FROM SEWER TRENCHES SHALL BE REMOVED FROM THE WORK SITE IN A TIMELY MANNER.

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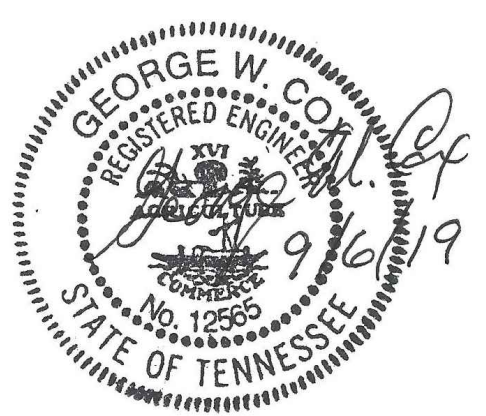
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CONTRACTOR MUST LAY THE SEWER LINES SHOWN HEREON TO THE SPECIFIED GRADE. SEWER LINES LAID TO A GRADE LESS THAN THE MINIMUM GRADE OF 0.40% WILL BE REMOVED FROM THE GROUND AND LAID TO THE SPECIFIED GRADE. ANY UPSTREAM LINES AFFECTED BY THE REWORK SHALL BE RECONSTRUCTED AS REQUIRED.

SURVEYOR SHALL DELIVER TO THE CONTRACTOR AND THE CITY INSPECTOR A CERTIFIED CUT SHEET SHOWING CORRECT GRADE AT 50 FOOT INTERVALS FOR MINIMUM GRADE SEWER LINES.

ACCEPTANCE OR REJECTION OF SEWER LINES WILL BE BASED ON AS-BUILT SURVEY. AS-BUILT SURVEY WILL TAKE PLACE AS SOON AS PRACTICAL AFTER MANHOLES ARE BUILT AND LINES CAN BE TESTED FOR ACCEPTANCE.

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



POINT CHURCH AVENUE SANITARY SEWER LINE
ADDITION & ABANDONMENT
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

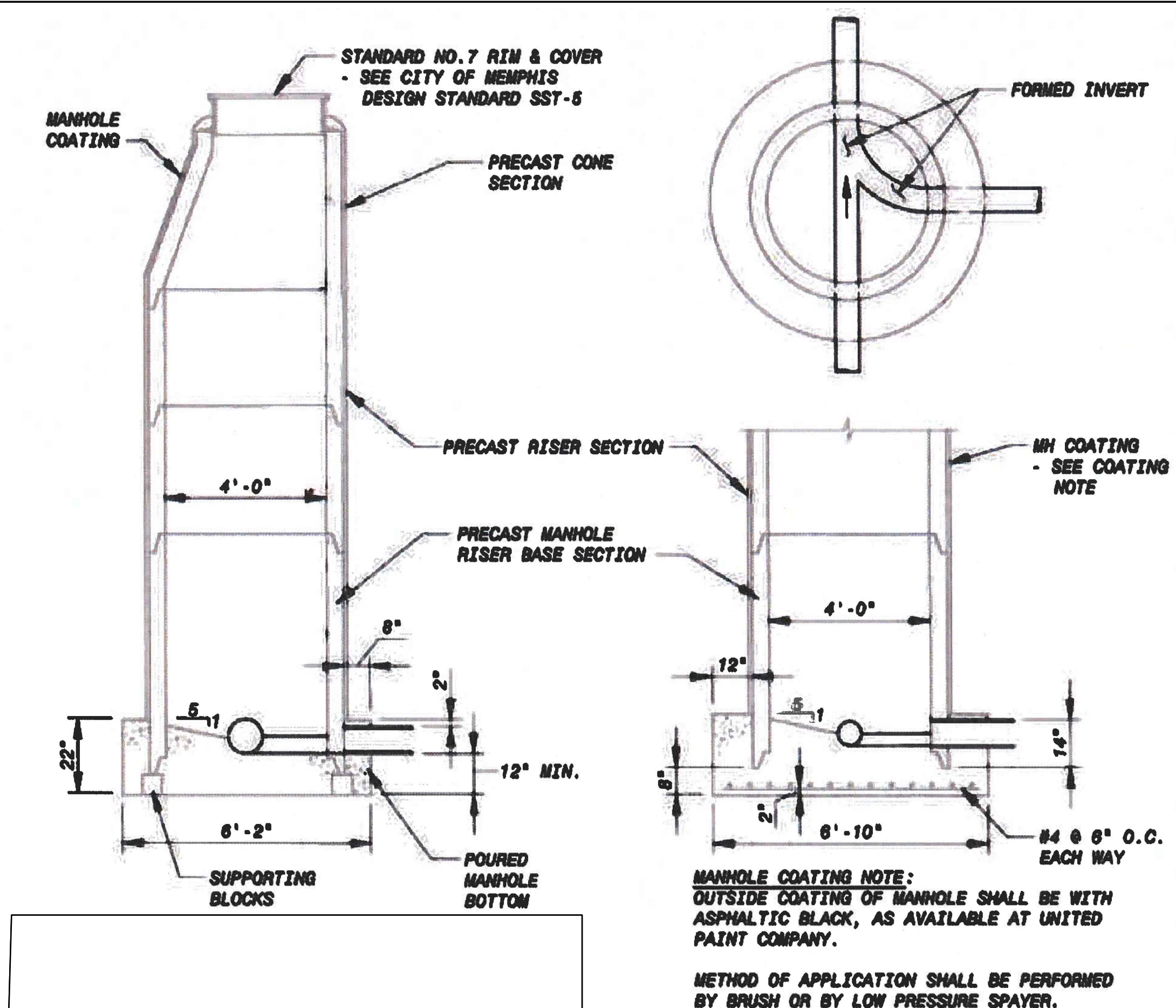
SHEET 1 OF 1
SEWER BASIN: LS-03

DIVISION OF ENGINEERING
GENERAL NOTES
FROM: 275' WEST OF UNIVERSITY STREET
TO: 390' WEST OF UNIVERISTY STREET
MEMPHIS, TENN.

DWG NO.
C1.01

SURVEY: GEODESY DATE: 3/2019 BOOK: 6418-8
DRAFTED: WBW DATE: 09/2019 SCALE: N/A
DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019

STANDARD DETAILS



ALTERNATE
(MANHOLES IN EXCESS OF 20' DEEP)

JOINT SEALANT: CONCRETE MORTAR SHALL BE USED TO SEAL JOINTS AFTER THE INSTALLATION OF AN APPROVED GASKET MATERIAL BETWEEN ALL PRECAST MANHOLE SECTIONS.

BASE SECTIONS: MANHOLE BOTTOM SHALL NOT BE POURED UNTIL PRECAST BASE SECTION OF MANHOLE AND PIPE STUBS OUT & IN ARE IN PLACE. PIPE STUBS OUTSIDE OF MANHOLE SHALL HAVE A MINIMUM LENGTH OF 12" AND A MAXIMUM LENGTH OF 15" FROM OUTSIDE OF MANHOLE TO THE FIRST JOINT OF PIPE. CONCRETE USED TO FORM BASES AND INVERTS SHALL BE 3,000 p.s.i.

SUBSTITUTES: POURED-IN-PLACE MANHOLES MAY BE SUBSTITUTED FOR PRECAST MANHOLES, PROVIDED A FORMAL, WRITTEN REQUEST HAS BEEN SUBMITTED TO & APPROVED BY THE ENGINEER OF DESIGN. ALL POURED-IN-PLACE MANHOLES SHALL CONFORM TO CITY OF MEMPHIS STANDARD DRAWINGS NO. SST-6 AND SST-7.

NOTE: MANHOLE STEPS SHALL NOT BE INSTALLED ON NEW MANHOLES.

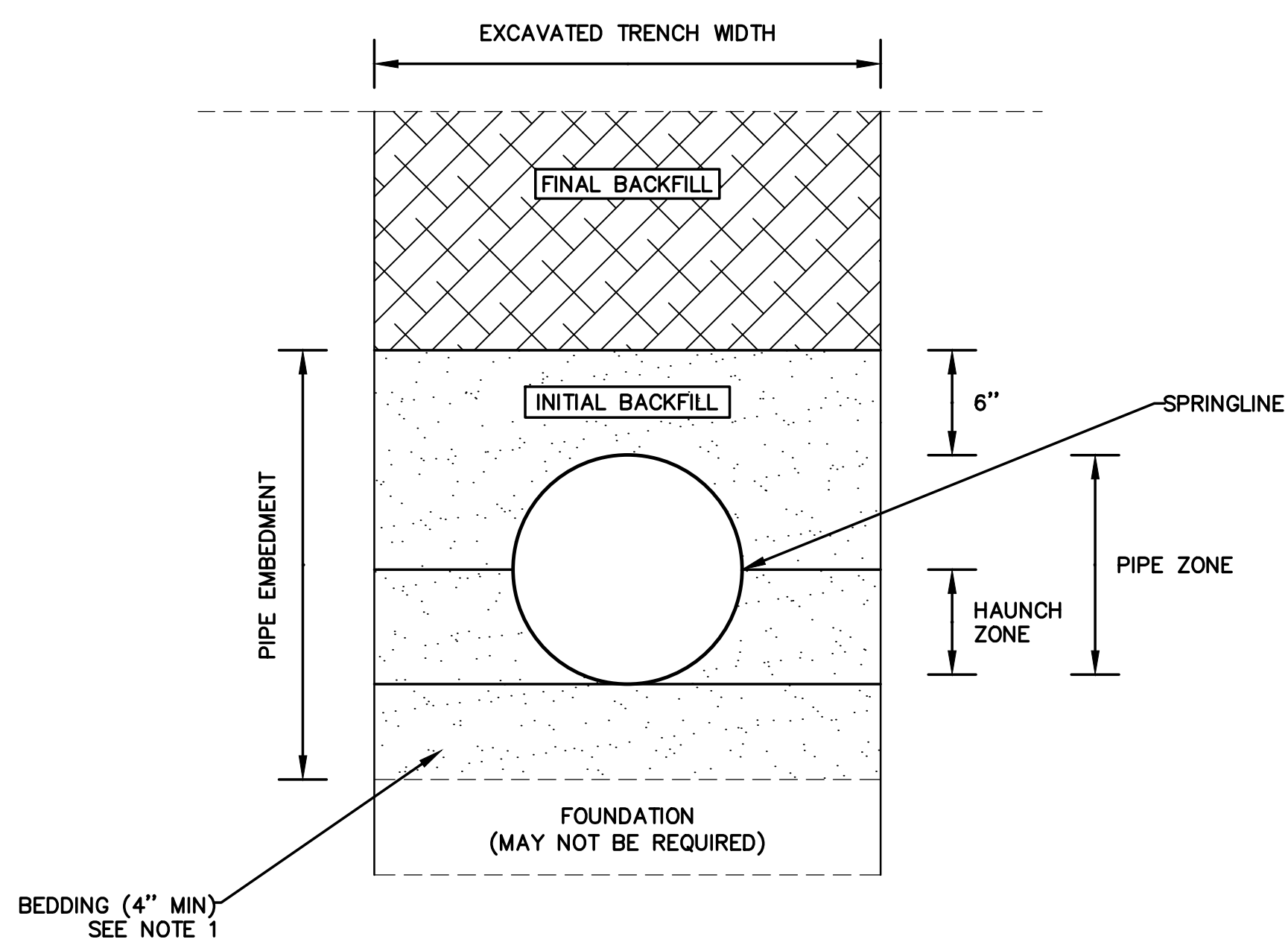
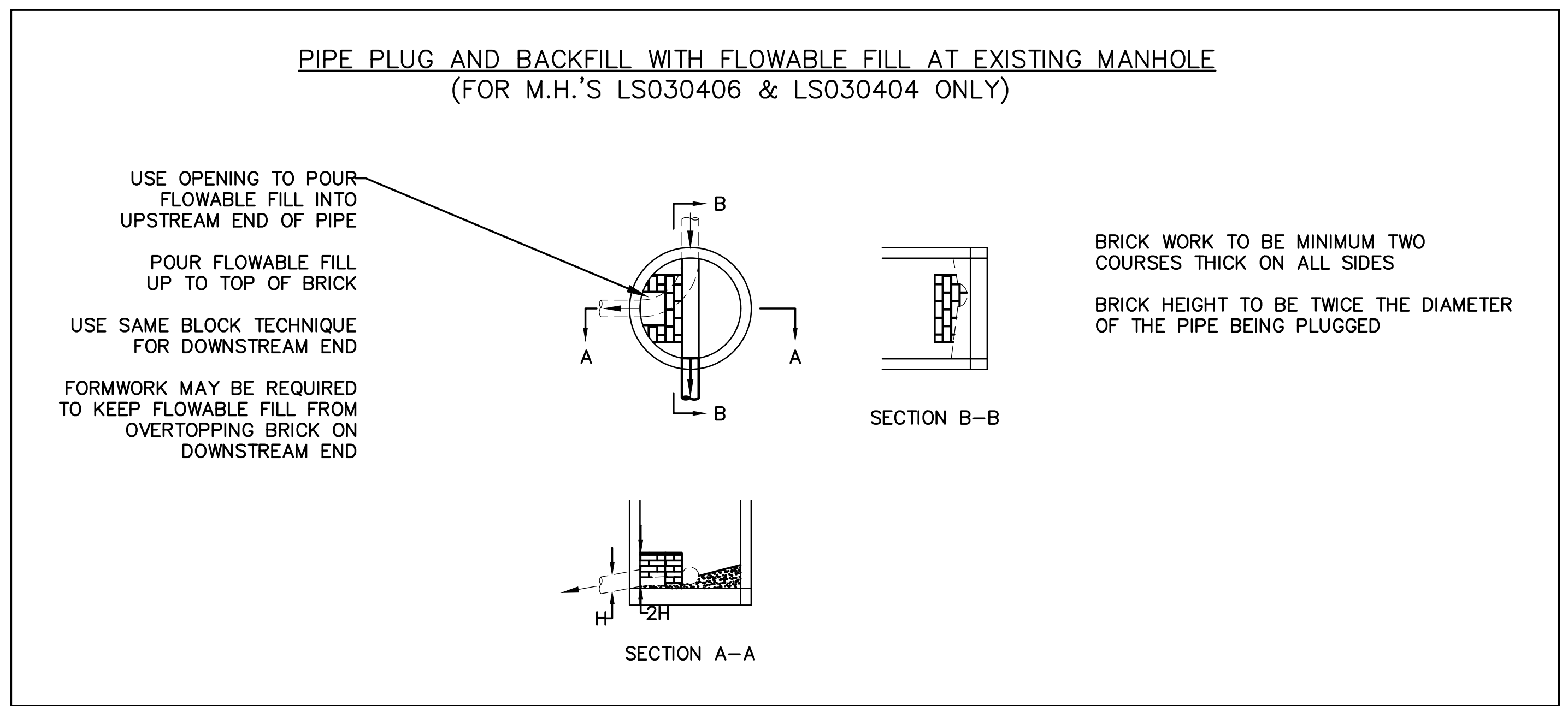
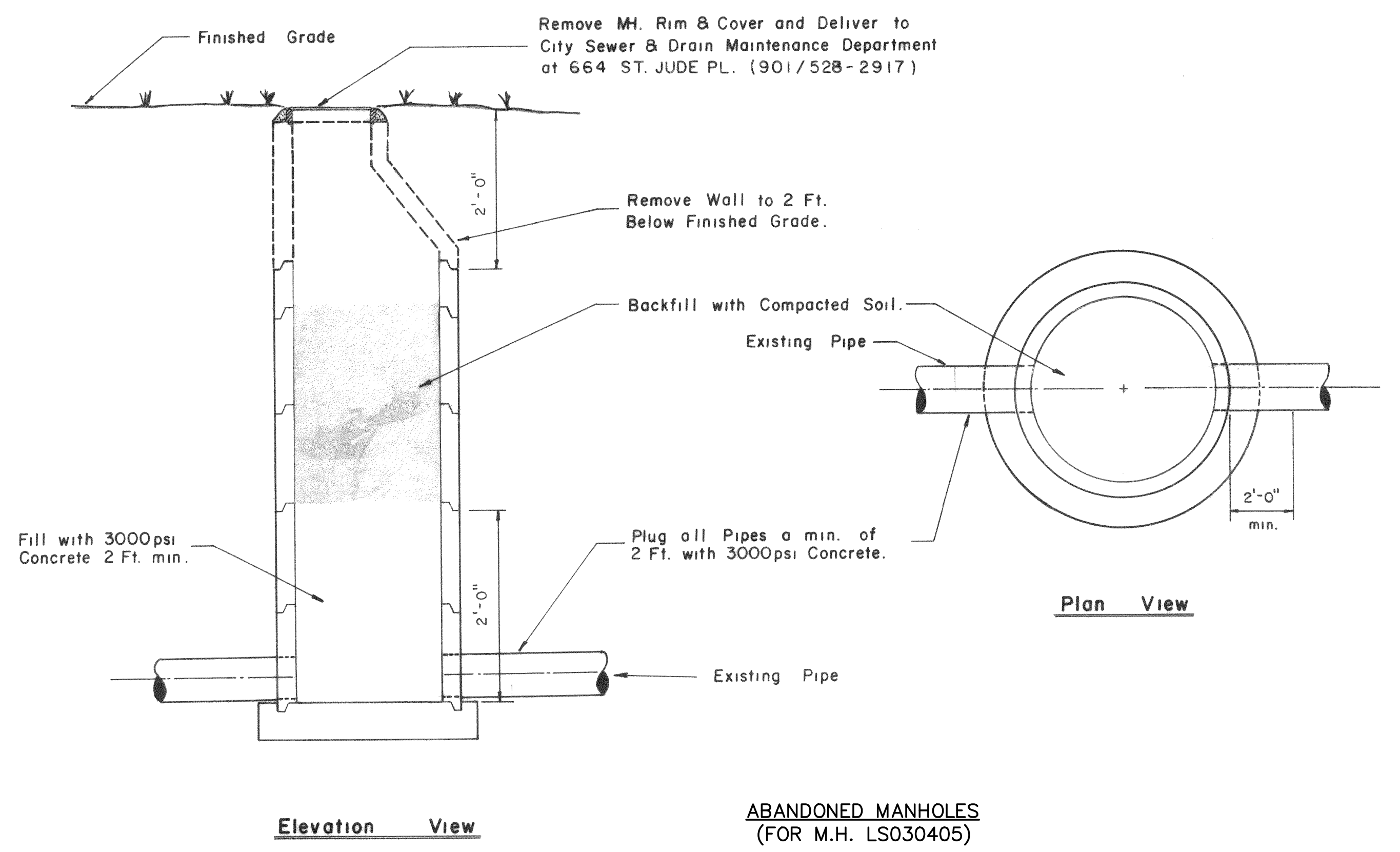


FIGURE 1
TRENCH CROSS SECTION SHOWING TERMINOLOGY

- NOTES**
1. INSTALL CRUSHED LESTONE ASTM D-448-54 TABLE 1, #67 FOR PIPE EMBEDMENT MATERIAL. THE QUANTITY OF CRUSHED LESTONE FOR PIPE EMBEDMENT IS INCIDENTAL TO THE SEWER PIPE INSTALLATION AND NO SEPARATE PAYMENT WILL BE MADE.
 2. INSTALL FINAL BACKFILL AS PER SPEC. SECTION 02530.



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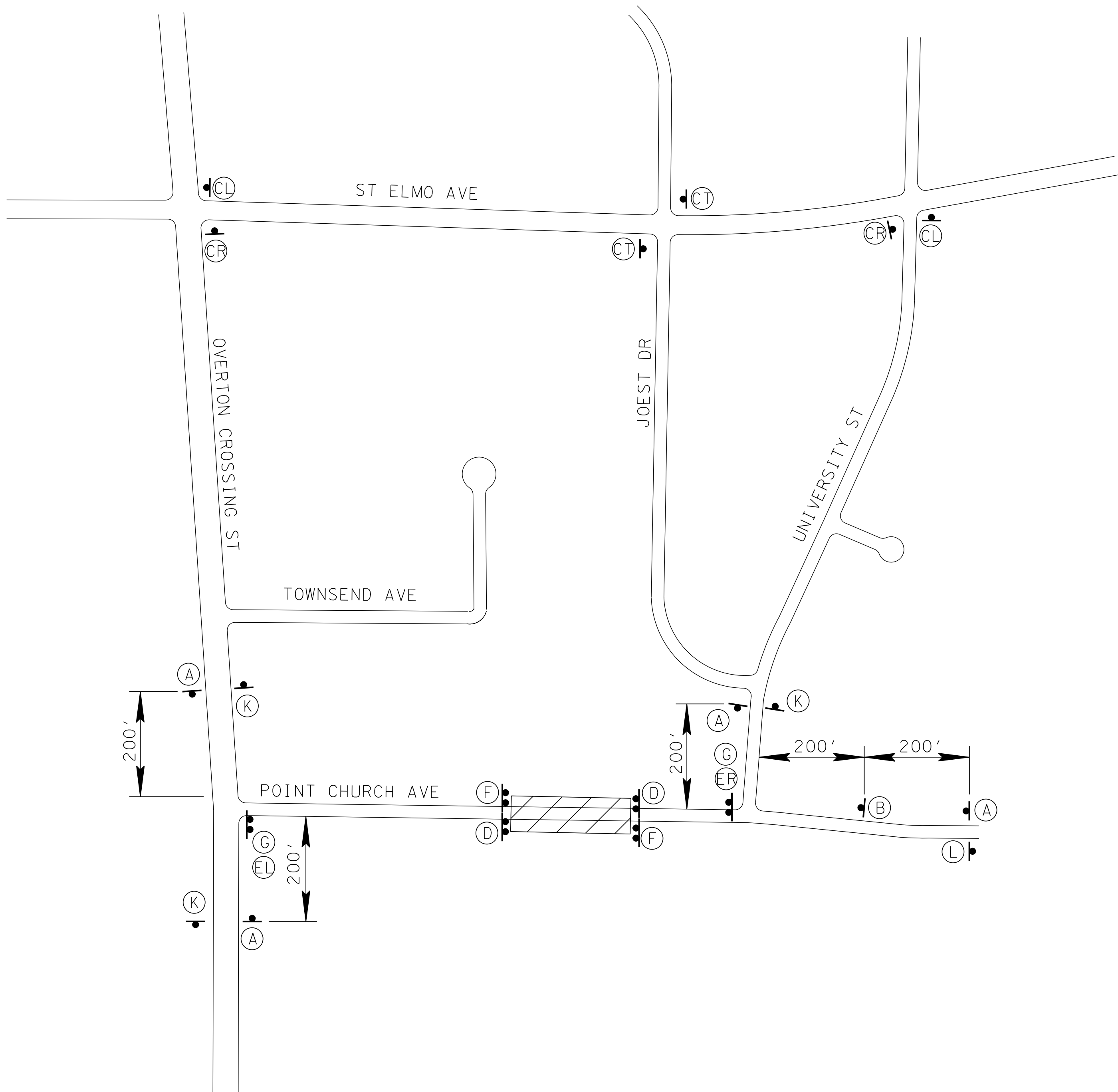
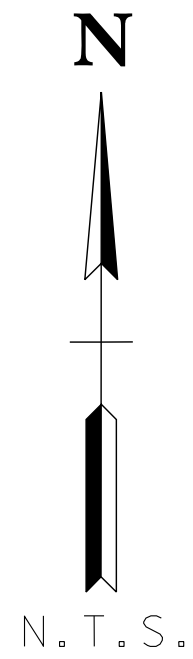


POINT CHURCH AVENUE SANITARY SEWER
LINE ADDITION & ABANDONMENT

DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1
SEWER BASIN: LS-03
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TO: 390' WEST OF UNIVERSITY STREET
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DWG NO.
C1.02



DEVICE LEGEND

TYPE III BARRICADE W/
TYPE A WARNING LIGHTS

SIGN ON POST OR
TEMPORARY MOUNTING

WORK AREA

SIGN LEGEND

ROAD
CLOSED
AHEAD

(A)
W20-3
48"x 48"

DETOUR
AHEAD

(B)
W20-2
48"x 48"

DETOUR
↑

(CT)
M4-9T
30"x 24"

DETOUR
←

(CL)
M4-9L
30"x 24"

DETOUR
→

(CR)
M4-9R
30"x 24"

ROAD
CLOSED

(D)
R11-2
48"x 30"
ON TYPE III
BARRICADE
W/ TYPE A
WARNING
LIGHTS

ROAD CLOSED
TO
THRU TRAFFIC

(C)
R11-4 OR
60" X 30"
ON TYPE III
BARRICADE
W/ TYPE A
WARNING
LIGHTS

SIGN(EL)OR(ER)SHALL BE MOUNTED
DIRECTLY BELOW AS APPROPRIATE

←DETOUR

(EL)
M4-10L
48"x 18"

DETOUR→

(ER)
M4-10R
48"x 18"

TYPE III BARRICADE ALONE (F)

(F)
R11-4 OR
60" X 30"
ON TYPE III
BARRICADE
W/ TYPE A
WARNING
LIGHTS

END
ROAD WORK

(K)
G20-2
36"x 18"

END
DETOUR

(L)
M4-8a
24"x 18"

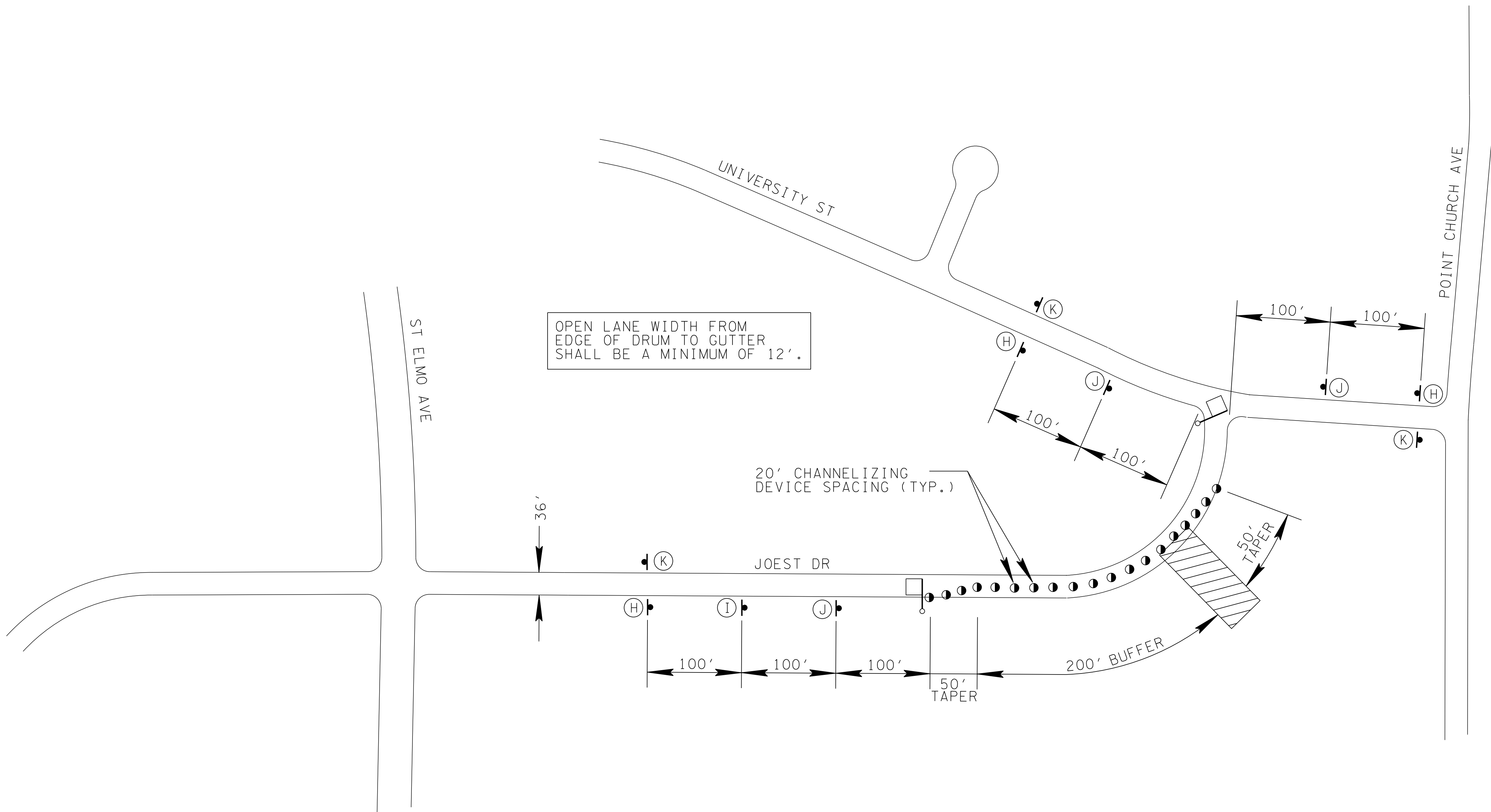
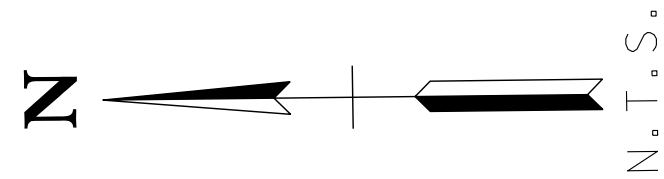
DURATION: 9AM – 3PM
FOR UP TO 3 DAYS
DESIGN SPEED LIMIT: 30 MPH
PHASE 1

REVISIONS				SHEET 1 OF 4		DWG NO.
DATE	DESCRIPTIONS	APPROVED		SEWER BASIN: LS-03		C2.01
09/17/19	CITY COMMENTS			DIVISION OF ENGINEERING		
09/25/19	MODIFIED DURATION			TRAFFIC CONTROL PLAN		
				ROAD CLOSURE ON POINT CHURCH AVENUE (BETWEEN OVERTON CROSSING STREET AND UNIVERSITY STREET)		
				MEMPHIS, TENN.		
POINT CHURCH AVENUE SANITARY SEWER LINE IMPROVMENTS				DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.		
SURVEY: GEODESY DATE: 03/2019 BOOK: 6418-8				DEPUTY CITY ENGINEER		
DRAFTED: BJH DATE: 09/2019 SCALE: N.T.S.				CITY ENGINEER		
DESIGNED: BJH DATE: 09/2019 CHECKED: WWL DATE: 09/2019				REVIEWED		

BENCHMARK

BASIS OF ELEVATION NAVD 88 CITY
BM #572 – LOCATED IN THE SE
CORNER OF OVERTON CROSSING ROAD
AND PAMELA DRIVE AT THE FRONT
OF SIDEWALK AT END OF CURB
RADIUS ON OVERTON CROSSING ROAD
SIDE AT THE NEW CORNER OF A
6-72 INLET. ELEV. 280.04

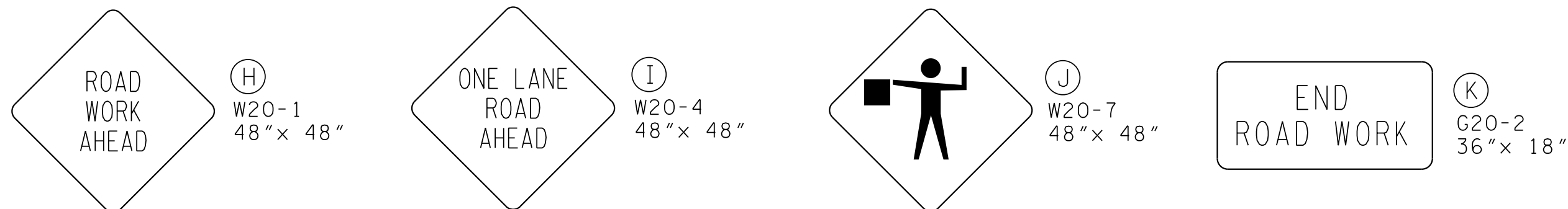
THESE PREMISES ARE NOT LOCATED
WITHIN A "SPECIAL FLOOD HAZARD
AREA" AS DEFINED BY THE NATIONAL
FLOOD PROTECTION ACT AS SHOWN
ON FIRM MAP 47157C0280F, DATED
SEPTEMBER 28, 2007. ELEV. +/-
233.0



DEVICE LEGEND

- TYPE III BARRICADE
- SIGN ON POST OR TEMPORARY MOUNTING
- WORK AREA
- CHANNELIZING DEVICE
- FLAGGER

SIGN LEGEND



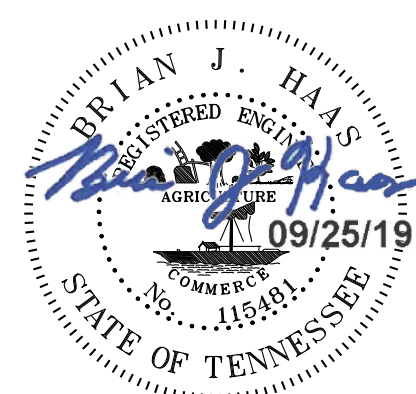
BENCHMARK

BASIS OF ELEVATION NAVD 88 CITY BM #572 – LOCATED IN THE SE CORNER OF OVERTON CROSSING ROAD AND PAMELA DRIVE AT THE FRONT OF SIDEWALK AT END OF CURB RADIUS ON OVERTON CROSSING ROAD SIDE AT THE NEW CORNER OF A 6-72 INLET. ELEV. 280.04

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0280F, DATED SEPTEMBER 28, 2007. ELEV. +/- 233.0

DURATION: 9AM – 3PM
FOR UP TO 3 DAYS
DESIGN SPEED LIMIT: 30 MPH
PHASE 2

REVISIONS		
DATE	DESCRIPTIONS	APPROVED
09/17/19	CITY COMMENTS	
09/25/19	MODIFIED DURATION	



POINT CHURCH AVENUE
SANITARY SEWER LINE IMPROVMENTS
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 2 OF 4
SEWER BASIN: LS-03

DWG NO.
C2.02

DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
ONE LANE CLOSURE WITH FLAGGER ON JOEST DRIVE
(BETWEEN ST ELMO AVENUE AND UNIVERSITY STREET)

MEMPHIS, TENN.
SURVEY: GEODESY DATE: 03/2019 BOOK: 6418-8
DRAFTED: BJH DATE: 09/2019 SCALE: N.T.S.
DESIGNED: BJH DATE: 09/2019 CHECKED: WWL DATE: 09/2019
REVIEWED
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

TRAFFIC CONTROL QUANTITIES						
MUTCD NO.	DESCRIPTION	UNIT	QUANTITY	SIZE	CONST SIGN QTY	REMARKS
N/A	TEMPORARY BARRICARD (TYPE III)	EACH	6	N/A	N/A	
N/A	CHANNELIZING DEVICES	EACH	20	N/A	N/A	
N/A	TYPE A WARNING LIGHTS	EACH	12	N/A	N/A	
N/A	TYPE C WARNING LIGHTS	EACH	20	N/A	N/A	
W20-3	SIGNS (ROAD CLOSED AHEAD)	S.F.	4	48" x 48"	64	
W20-2	SIGNS (DETOUR AHEAD)	S.F.	1	48" x 48"	16	
M4-9T	SIGNS (DETOUR STRAIGHT)	S.F.	2	30" x 24"	10	
M4-9L	SIGNS (DETOUR LEFT)	S.F.	2	30" x 24"	10	
M4-9R	SIGNS (DETOUR RIGHT)	S.F.	2	30" x 24"	10	
R11-2	SIGNS (ROAD CLOSED)	S.F.	2	48" x 30"	20	
M4-10L	SIGNS (DETOUR LEFT)	S.F.	1	48" x 18"	6	
M4-10R	SIGNS (DETOUR RIGHT)	S.F.	1	48" x 18"	6	
R11-4	SIGNS (ROAD CLOSED TO THRU TRAFFIC)	S.F.	2	60" x 30"	25	
W20-1	SIGNS (ROAD WORK AHEAD)	S.F.	3	48" x 48"	48	
W20-4	SIGNS (ONE LANE ROAD AHEAD)	S.F.	1	48" x 48"	16	
W20-7	SIGNS (FLAGGER SYMBOL)	S.F.	3	48" x 48"	48	
G20-2	SIGNS (END ROAD WORK)	S.F.	6	36" x 18"	27	
M4-8a	SIGNS (END DETOUR)	S.F.	1	24" x 18"	3	
TOTAL					309	

BENCHMARK

BASIS OF ELEVATION NAVD 88 CITY BM #572 – LOCATED IN THE SE CORNER OF OVERTON CROSSING ROAD AND PAMELA DRIVE AT THE FRONT OF SIDEWALK AT END OF CURB RADIUS ON OVERTON CROSSING ROAD SIDE AT THE NEW CORNER OF A 6–72 INLET. ELEV. 280.04

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0280F, DATED SEPTEMBER 28, 2007. ELEV. +/- 233.0

REVISIONS

DATE	DESCRIPTIONS	APPROVED



POINT CHURCH AVENUE
SANITARY SEWER LINE IMPROVMENTS

DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 3 OF 4
SEWER BASIN: LS-03

DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
TRAFFIC CONTROL QUANTITIES

MEMPHIS, TENN.

SURVEY: GEODESY DATE: 03/2019 BOOK: 6418-8
DRAFTED: BJH DATE: 09/2019 SCALE: N/A
DESIGNED: BJH DATE: 09/2019 CHECKED: WWL DATE: 09/2019
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

DWG NO.
C2.03

TRAFFIC CONTROL PLAN NOTES

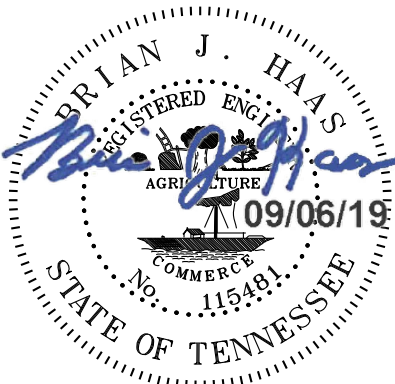
- (1) SEE SECTION 6F.03, SIGN PLACEMENT, OF THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
- (2) SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- (3) NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE “MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS”.
- (4) CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (576-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- (5) SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- (6) ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- (7) ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- (8) SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- (9) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THRITY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
- (10) CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE “C” WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- (12) CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- (19) ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
- (21) ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- (25) WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- (26) CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
- (28) CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- (29) THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
- (31) AT NO TIME SHALL ONE LANE SECTION BE LEFT OPEN UNATTENDED. WHERE TWO FLAGGERS ARE REQUIRED AND IN CIRCUMSTANCES WHERE ONLY ONE LANE OF TRAFFIC IS OPEN AND THERE IS NO CLEAR LINE OF SIGHT FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, THE CONTRACTOR SHALL PROVIDE RADIO COMMUNICATION OR OTHER APPROPRIATE MEANS OF ESTABLISHING CONTROL OF TRAFFIC.

- (32) ANYTIME FLAGGER IS NOT PRESENT TO CONTROL TRAFFIC, TWO TRAFFIC LANES MUST BE OPEN TO MAINTAIN TWO-WAY TRAFFIC AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- (33) ALL FLAGGERS SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE.
- (34) IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- (35) EXISTING STRIPING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE THE EXISTING STRIPING SHALL BE RETURNED TO ITS ORIGINAL STATE.
- (36) ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUTAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- (39) THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK AT ANYTIME DURING THIS PROJECT. IF A SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- (41) ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. THE DEVELOPER SHALL PROVIDE ON THE TRAFFIC CONTROL PLAN, THE TIME NEEDED PER PHASE TO COMPLETE THAT PORTION OF THE WORK. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS (636-2462) ON THE JOB.

BENCHMARK

BASIS OF ELEVATION NAVD 88 CITY BM #572 – LOCATED IN THE SE CORNER OF OVERTON CROSSING ROAD AND PAMELA DRIVE AT THE FRONT OF SIDEWALK AT END OF CURB RADIUS ON OVERTON CROSSING ROAD SIDE AT THE NEW CORNER OF A 6–72 INLET. ELEV. 280.04

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REVISIONS <table><tr><th>DATE</th><th>DESCRIPTIONS</th><th>APPROVED</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>			DATE	DESCRIPTIONS	APPROVED																													SHEET 4 OF 4 SEWER BASIN: LS-03 DIVISION OF ENGINEERING TRAFFIC CONTROL PLAN TRAFFIC CONTROL NOTES MEMPHIS, TENN. SURVEY: GEODESY DATE: 03/2019 BOOK: 6418-8 DRAFTED: BJH DATE: 09/2019 SCALE: N/A DESIGNED: BJH DATE: 09/2019 CHECKED: WWL DATE: 09/2019 REVIEWED DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE
DATE	DESCRIPTIONS	APPROVED																																
POINT CHURCH AVENUE SANITARY SEWER LINE IMPROVMENTS DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.																																		

REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTIONS</th> <th style="width: 25%;">APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>  SHEET 1 OF 1 SEWER BASIN: LS-03 DWG NO. C3.01 DIVISION OF ENGINEERING EXISTING CONDITIONS FROM: 275' WEST OF UNIVERSITY STREET TO: 390' WEST OF UNIVERSITY STREET MEMPHIS, TENN. SURVEY: GEODESY DATE: <u>3/2019</u> BOOK: <u>6418-8</u> DRAFTED: <u>WBW</u> DATE: <u>09/2019</u> DESIGNED: <u>WWL</u> DATE: <u>09/2019</u> CHECKED: <u>GC</u> DATE: <u>09/2019</u>			DATE	DESCRIPTIONS	APPROVED																					
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POINT CHURCH AVENUE SANITARY SEWER LINE ADDITION & ABANDONMENT DEVELOPER: SARP 10 ENGINEER: CANNON & CANNON, INC.																										

CONSTRUCTION NOTES:

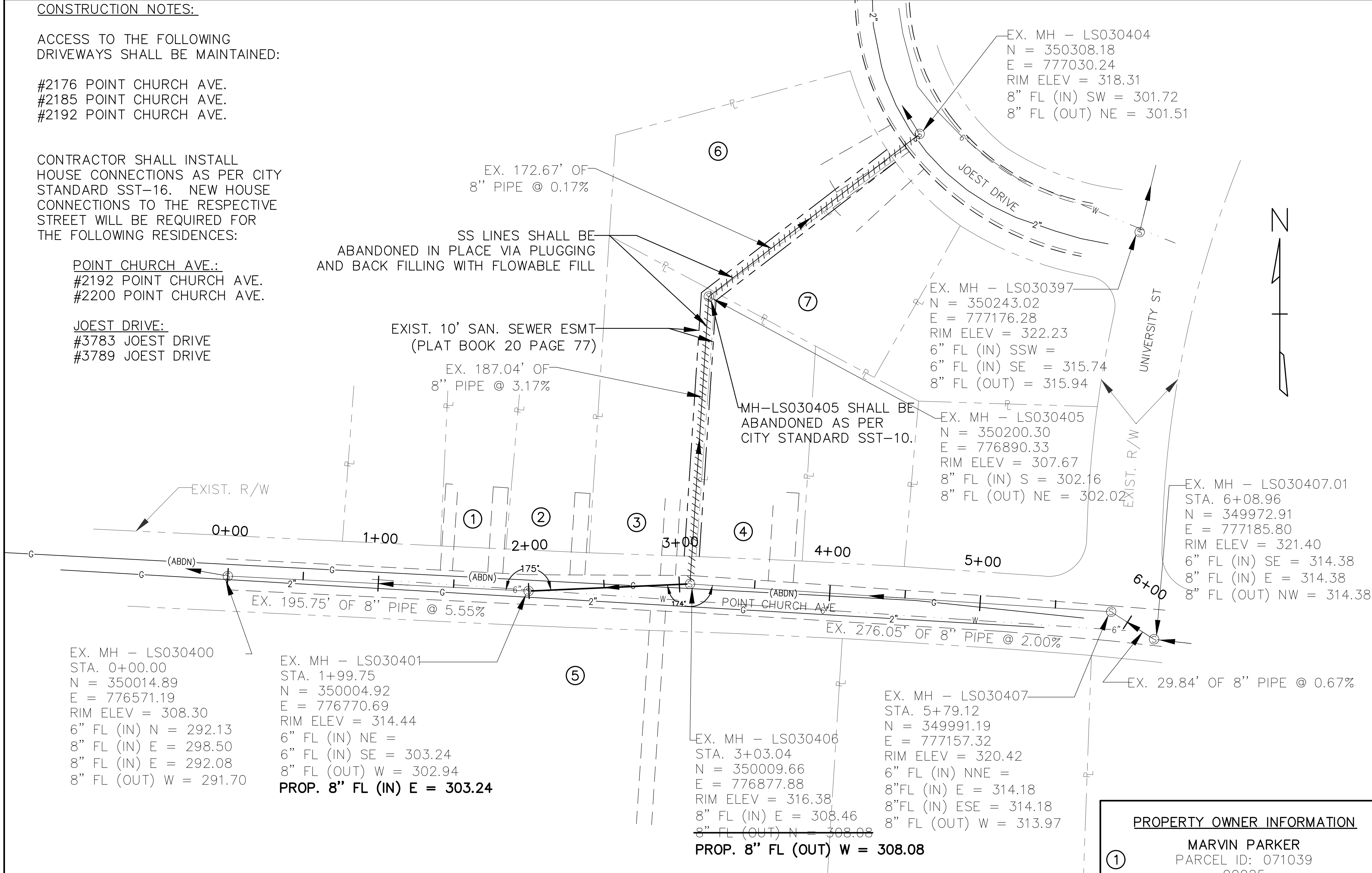
ACCESS TO THE FOLLOWING
DRIVEWAYS SHALL BE MAINTAINED:

#2176 POINT CHURCH AVE.
#2185 POINT CHURCH AVE.
#2192 POINT CHURCH AVE.

CONTRACTOR SHALL INSTALL
HOUSE CONNECTIONS AS PER CITY
STANDARD SST-16. NEW HOUSE
CONNECTIONS TO THE RESPECTIVE
STREET WILL BE REQUIRED FOR
THE FOLLOWING RESIDENCES:

POINT CHURCH AVE.:
#2192 POINT CHURCH AVE.
#2200 POINT CHURCH AVE.

JOEST DRIVE:
#3783 JOEST DRIVE
#3789 JOEST DRIVE



PROPERTY OWNER INFORMATION

- MARVIN PARKER
PARCEL ID: 071039
00025
INST#: 17015623
- TOPSTONE INV MEM 1, LLC
PARCEL ID: 071039
00024
INST#: 18009913
- GILBERTO GONZALEZ
PARCEL ID: 071039
00023
INST#: 13141459
- ONE CHOICE PROPERTIES, LLC.
PARCEL ID: 071039
00022
INST#: 14013400
- FIRST CHURCH OF GOD-FRAYSER
PARCEL ID: 072094
00001
INST#: T50819
- ELIJAH & MARY L. McCULLOUGH
PARCEL ID: 071039
00017
INST#: Z83629
- LOLA BOLDEN, CHERITA MILLER,
SHERYL BOLDEN, WILLIAM BOLDEN,
& GINA CHAMBLISS
PARCEL ID: 071039
00018
INST#: 15103678

TYPICAL CONSTRUCTION NOTES

LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.

CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT **636-2462** A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.

ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.

THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.

ALL SANITARY SEWER TO BE CONSTRUCTED AS PER SARP10 CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.

ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.

ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.

THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.

NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.

ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.

THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

ALL PROJECTS ARE TO BE TIED TO THE CITY OF MEMPHIS T.B.M. NETWORK. FOR ALL T.B.M. NETWORK DATA, **CALL DON AUTRY, CITY OF MEMPHIS SURVEY, AT (901) 378-0476**.

MANHOLES LOCATED WITHIN THE 100-YEAR FLOOD PLAIN SHOULD EXTEND A MINIMUM OF 12" (1'-0") ABOVE THE 100-YEAR FLOOD LEVEL IRREGARDLESS OF WHETHER THE MANHOLE IS IN RESIDENTIAL, COMMERCIAL, OR RURAL PROPERTY. AS AN ALTERNATIVE, A MANHOLE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN MUST HAVE A SEALED COVER AND VENT STACK IF IT EXTENDS LESS THAN THE MINIMUM 12" ABOVE THE 100-YEAR FLOOD LEVEL. WITHIN THIS ALTERNATIVE THE VENT STACKS COULD BE LIMITED TO EVERY OTHER MANHOLE IF LOCATED WITHIN A RESIDENTIAL AREA.

DEVELOPER UNDERSTANDS AND ACCEPTS THAT ANY STRUCTURE (INCLUDING TEMPORARY OR PERMANENT RETAINING WALLS, CURB & GUTTER, FENCES, PADS AND ETC.) BUILT OVER PUBLIC SEWER LINES, WHETHER SHOWN ON PLANS OR NOT, WILL BE REMOVED AS REQUIRED BY THE CITY IN THE EVENT ACCESS IS NEEDED TO THE SANITARY SEWER LINE UNDER SUCH STRUCTURE WITH NO REPLACEMENT OF SUCH STRUCTURE BY THE CITY.

PRIVATE SEWER CERTIFICATE

THE ENGINEER WHOSE SEAL AND SIGNATURE APPEAR BELOW HEREBY ACCEPTS THE RESPONSIBILITY FOR INSPECTION OF THE PRIVATE SANITARY SEWER SYSTEM SHOWN HEREON. AFTER ALL OF THE SYSTEM IS INSTALLED AND TESTED, THE ENGINEER WILL PROVIDE THE MEMPHIS AND SHELBY COUNTY OFFICE OF CODE ENFORCEMENT WITH A LETTER CERTIFYING THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS OR, WHERE NO LOCAL STANDARDS EXIST, THE STANDARDS OF THE STATE OF TENNESSEE. NO PRIVATE SANITARY SEWER SYSTEM IS TO BE USED EXCEPT FOR TESTING UNTIL THIS CERTIFICATION HAS BEEN SUBMITTED AND ACCEPTED BY CODE ENFORCEMENT.

APPROVED FOR CONSTRUCTION

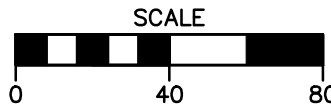
THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE **TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL**. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

BENCHMARK

BASIS OF ELEVATION NAVD 88 CITY BM #572 - LOCATED IN THE SE CORNER OF OVERTON CROSSING ROAD AND PAMELA DRIVE AT THE FRONT OF SIDEWALK AT END OF CURB RADIUS ON OVERTON CROSSING ROAD SIDE AT THE NE CORNER OF A 6-72 INLET. ELEV. 280.04

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0280F, DATED SEPTEMBER 28, 2007. ELEV. ± 233.0



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



POINT CHURCH AVENUE SANITARY
SEWER LINE ADDITION & ABANDONMENT
DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

SHEET 1 OF 1
SEWER BASIN: LS-03

DIVISION OF ENGINEERING

PROPOSED SEWER PLAN

FROM: 275' WEST OF UNIVERSITY STREET
TO: 390' WEST OF UNIVERSITY STREET

MEMPHIS, TENN.

SURVEY: GEODESY DATE: 3/2019 BOOK: 6418-8
DRAFTED: WBW DATE: 09/2019 SCALE: 1"=40'
DESIGNED: WWL DATE: 09/2019 CHECKED: GC DATE: 09/2019
REVIEWED

CITY CIVIL DESIGN ENGINEER DATE CITY ENGINEER DATE

CONSTRUCTION NOTES:

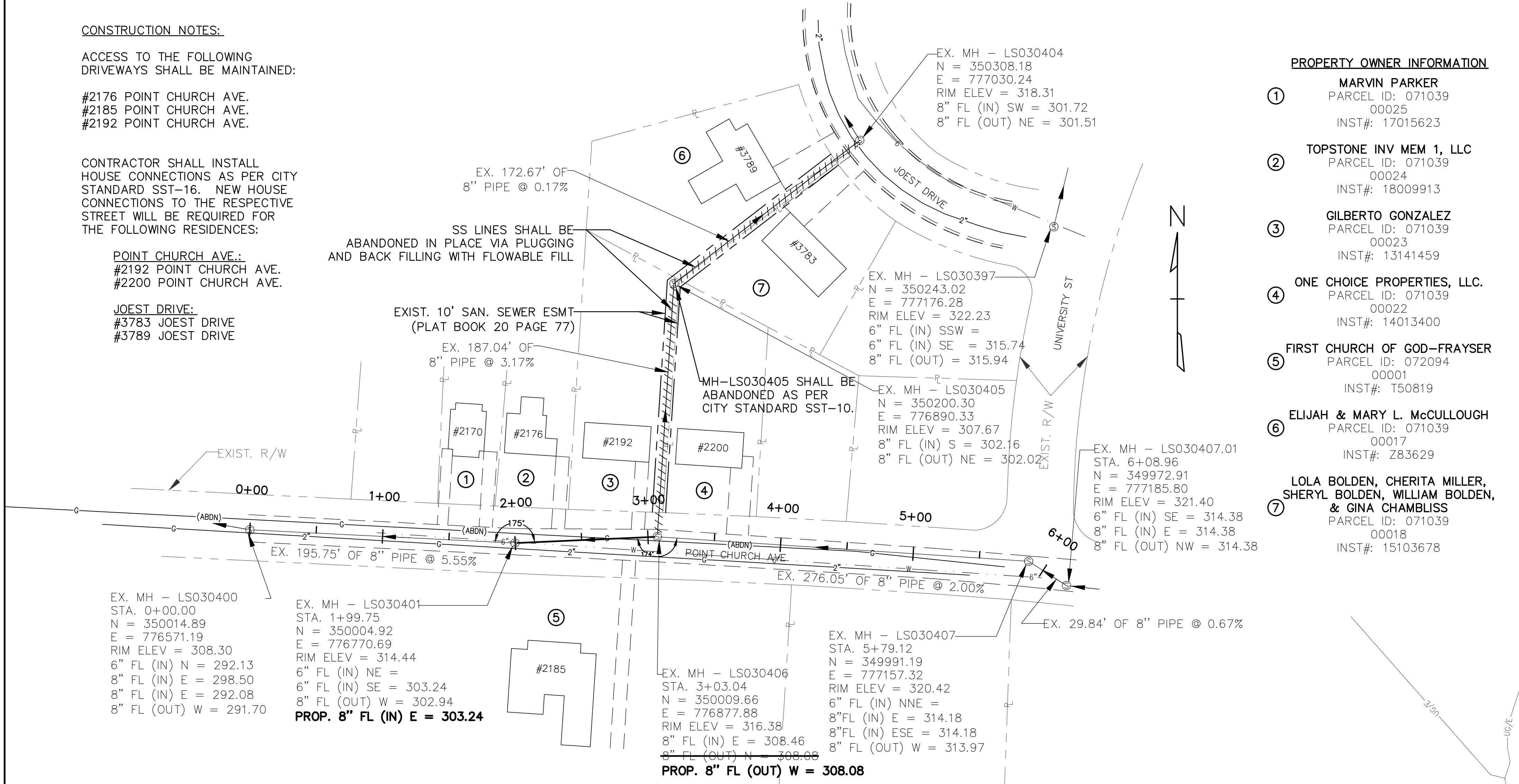
ACCESS TO THE FOLLOWING DRIVEWAYS SHALL BE MAINTAINED:

#2176 POINT CHURCH AVE.
#2185 POINT CHURCH AVE.
#2192 POINT CHURCH AVE.

CONTRACTOR SHALL INSTALL HOUSE CONNECTIONS AS PER CITY STANDARD SST-16. NEW HOUSE CONNECTIONS TO THE RESPECTIVE STREET WILL BE REQUIRED FOR THE FOLLOWING RESIDENCES:

POINT CHURCH AVE.:
#2192 POINT CHURCH AVE.
#2200 POINT CHURCH AVE.

JOEST DRIVE:
#3783 JOEST DRIVE
#3789 JOEST DRIVE



PROPERTY OWNER INFORMATION

- ① MARVIN PARKER
PARCEL ID: 071039
00025
INST#: 17015623
- ② TOPSTONE INV MEM 1, LLC
PARCEL ID: 071039
00024
INST#: 18009913
- ③ GILBERTO GONZALEZ
PARCEL ID: 071039
00023
INST#: 13141459
- ④ ONE CHOICE PROPERTIES, LLC.
PARCEL ID: 071039
00022
INST#: 14013400
- ⑤ FIRST CHURCH OF GOD-FRAYSER
PARCEL ID: 072094
00001
INST#: T50819
- ⑥ ELIJAH & MARY L. McCULLOUGH
PARCEL ID: 071039
00017
INST#: Z83629
- ⑦ LOLA BOLDEN, CHERITA MILLER,
SHERYL BOLDEN, WILLIAM BOLDEN,
& GINA CHAMBLISS
PARCEL ID: 071039
00018
INST#: 15103678

TYPICAL CONSTRUCTION NOTES

LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.

CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT **636-2462** A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.

ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.

THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.

ALL SANITARY SEWER TO BE CONSTRUCTED AS PER SARP10 CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.

ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.

ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.

THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.

NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.

ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.

THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

ALL PROJECTS ARE TO BE TIED TO THE CITY OF MEMPHIS T.B.M. NETWORK. FOR ALL T.B.M. NETWORK DATA, **CALL DON AUTRY, CITY OF MEMPHIS SURVEY, AT (901) 378-0476.**

MANHOLES LOCATED WITHIN THE 100-YEAR FLOOD PLAIN SHOULD EXTEND A MINIMUM OF 12" (1'-0") ABOVE THE 100-YEAR FLOOD LEVEL IRREGARDLESS OF WHETHER THE MANHOLE IS IN RESIDENTIAL, COMMERCIAL, OR RURAL PROPERTY. AS AN ALTERNATIVE, A MANHOLE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN MUST HAVE A SEALED COVER AND VENT STACK IF IT EXTENDS LESS THAN THE MINIMUM 12" ABOVE THE 100-YEAR FLOOD LEVEL. WITHIN THIS ALTERNATIVE THE VENT STACKS COULD BE LIMITED TO EVERY OTHER MANHOLE IF LOCATED WITHIN A RESIDENTIAL AREA.

DEVELOPER UNDERSTANDS AND ACCEPTS THAT ANY STRUCTURE (INCLUDING TEMPORARY OR PERMANENT RETAINING WALLS, CURB & GUTTER, FENCES, PADS AND ETC.) BUILT OVER PUBLIC SEWER LINES, WHETHER SHOWN ON PLANS OR NOT, WILL BE REMOVED AS REQUIRED BY THE CITY IN THE EVENT ACCESS IS NEEDED TO THE SANITARY SEWER LINE UNDER SUCH STRUCTURE WITH NO REPLACEMENT OF SUCH STRUCTURE BY THE CITY.

PRIVATE SEWER CERTIFICATE

THE ENGINEER WHOSE SEAL AND SIGNATURE APPEAR BELOW HEREBY ACCEPTS THE RESPONSIBILITY FOR INSPECTION OF THE PRIVATE SANITARY SEWER SYSTEM SHOWN HEREON. AFTER ALL OF THE SYSTEM IS INSTALLED AND TESTED, THE ENGINEER WILL PROVIDE THE MEMPHIS AND SHELBY COUNTY OFFICE OF CODE ENFORCEMENT WITH A LETTER CERTIFYING THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS OR, WHERE NO LOCAL STANDARDS EXIST, THE STANDARDS OF THE STATE OF TENNESSEE. NO PRIVATE SANITARY SEWER SYSTEM IS TO BE USED EXCEPT FOR TESTING UNTIL THIS CERTIFICATION HAS BEEN SUBMITTED AND ACCEPTED BY CODE ENFORCEMENT.

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE **TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL**. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

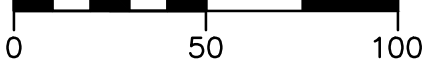
APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

BENCHMARK

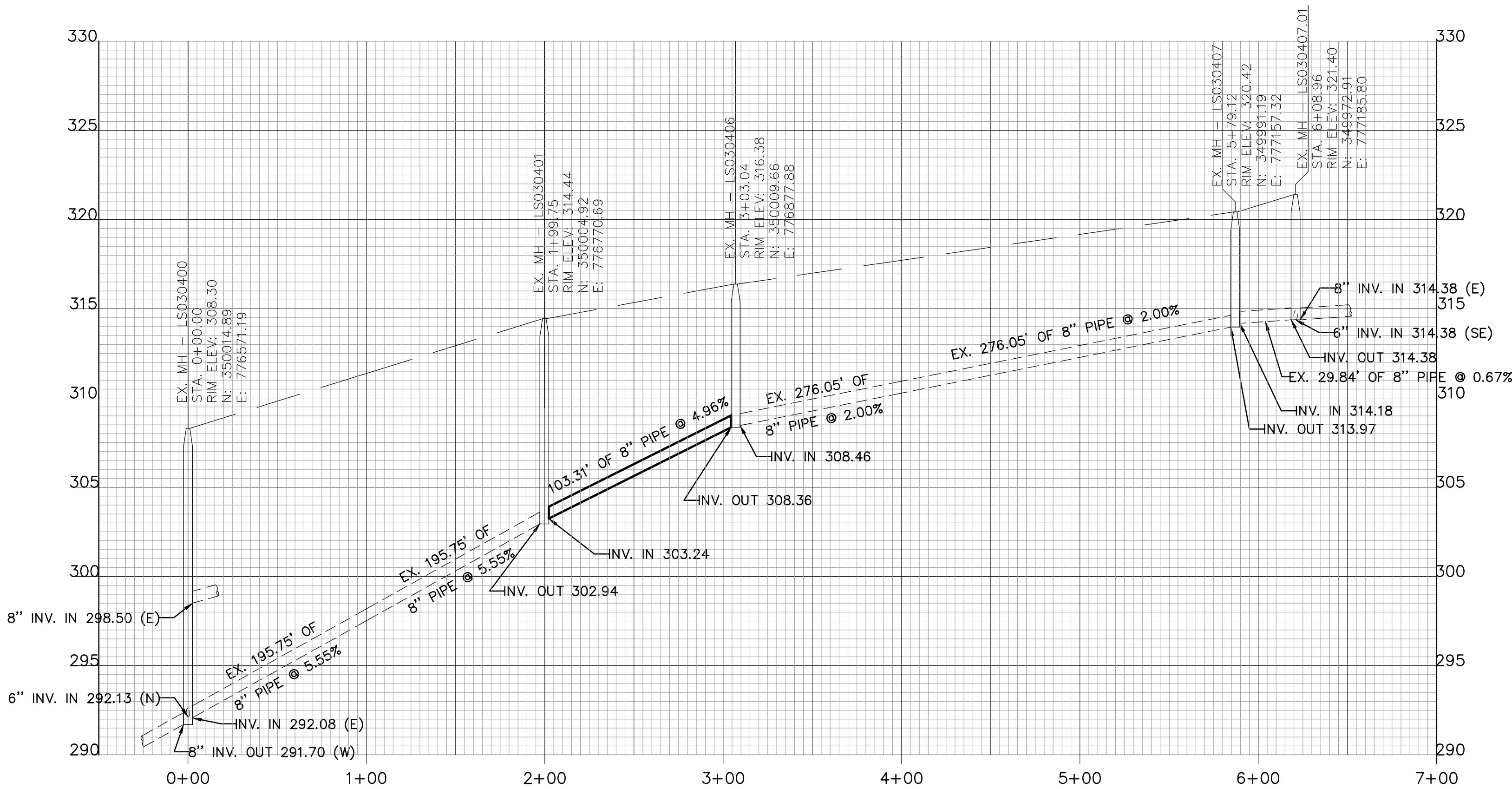
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HORIZONTAL SCALE



VERTICAL SCALE



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DATE	DESCRIPTIONS	APPROVED



SHEET 1 OF 1
SEWER BASIN: LS-03

DIVISION OF ENGINEERING
PROPOSED SEWER PLAN & PROFILE

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TO: 390' WEST OF UNIVERSITY STREET

MEMPHIS, TENN.

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REVIEWED

POINT CHURCH AVENUE SANITARY SEWER
LINE ADDITION & ABANDONMENT

DEVELOPER: SARP 10
ENGINEER: CANNON & CANNON, INC.

CITY CIVIL DESIGN ENGINEER DATE CITY ENGINEER DATE