

HARRINGTON CREEK WEST (WN051207S)
BANK STABILIZATION / GRADE CONTROL
CITY OF MEMPHIS
SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10)
MEMPHIS, TENNESSEE

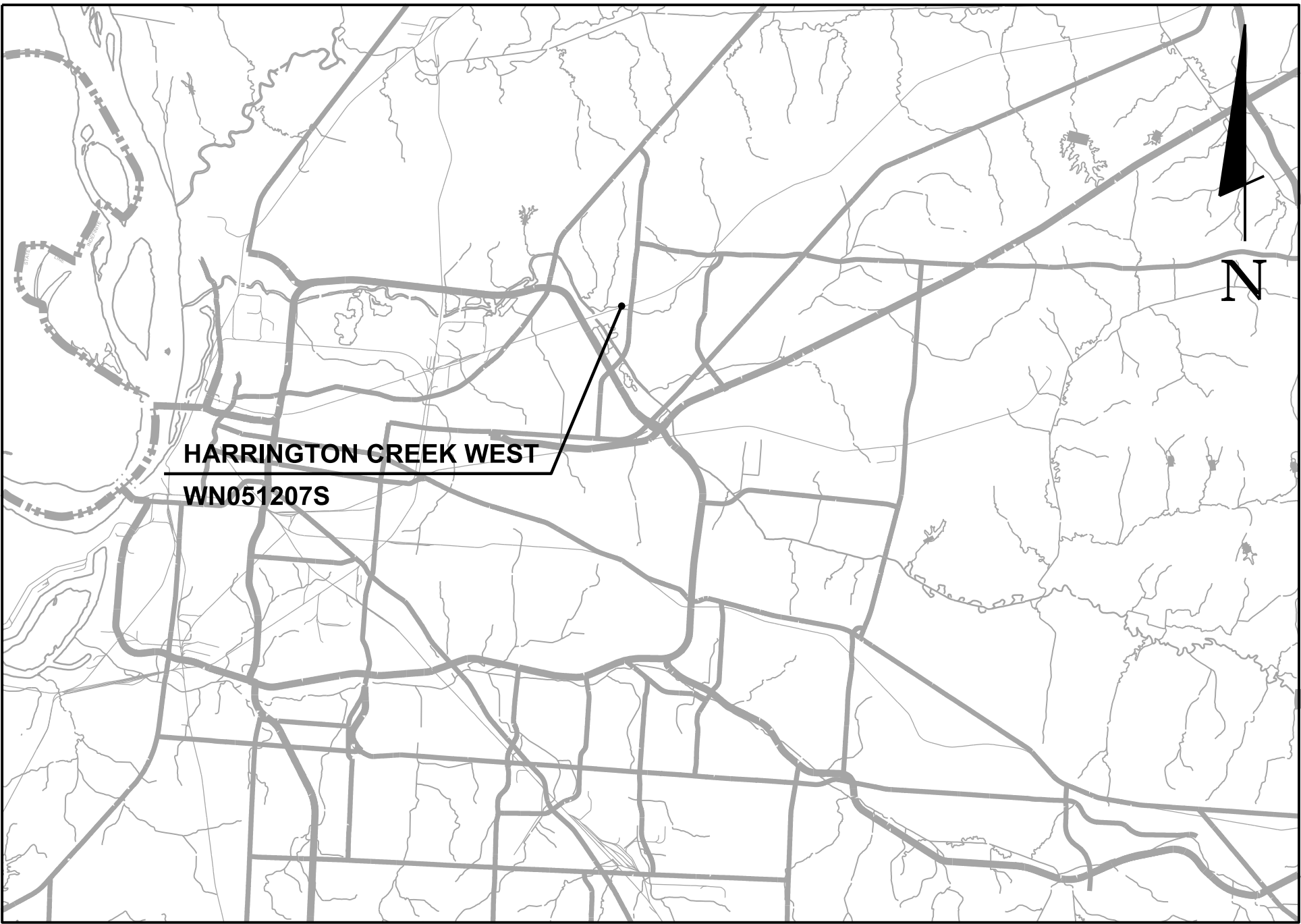
CITY COUNCIL

- JB SMILEY JR, CHAIRMAN
- J FORD CANALE, VICE CHAIRMAN
- RHONDA LOGAN, COUNCILWOMAN
- JERRI GREEN, COUNCILWOMAN
- PEARL EVA WALKER, COUNCILWOMAN
- JANA SWEARENGEN-WASHINGTON, COUNCILWOMAN
- PHILIP SPINOSA, COUNCILMAN
- EDMUND FORD SR, COUNCILMAN
- MICHALYN EASTER-THOMAS, COUNCILWOMAN
- JANIKA WHITE, COUNCILWOMAN
- YOLANDA COOPER-SUTTON, COUNCILWOMAN
- CHASE CARLISLE, COUNCILMAN
- DR JEFF WARREN, COUNCILMAN

CITY ENGINEER

MANNY BELEN, P.E.

PAUL YOUNG, MAYOR



LOCATION MAP

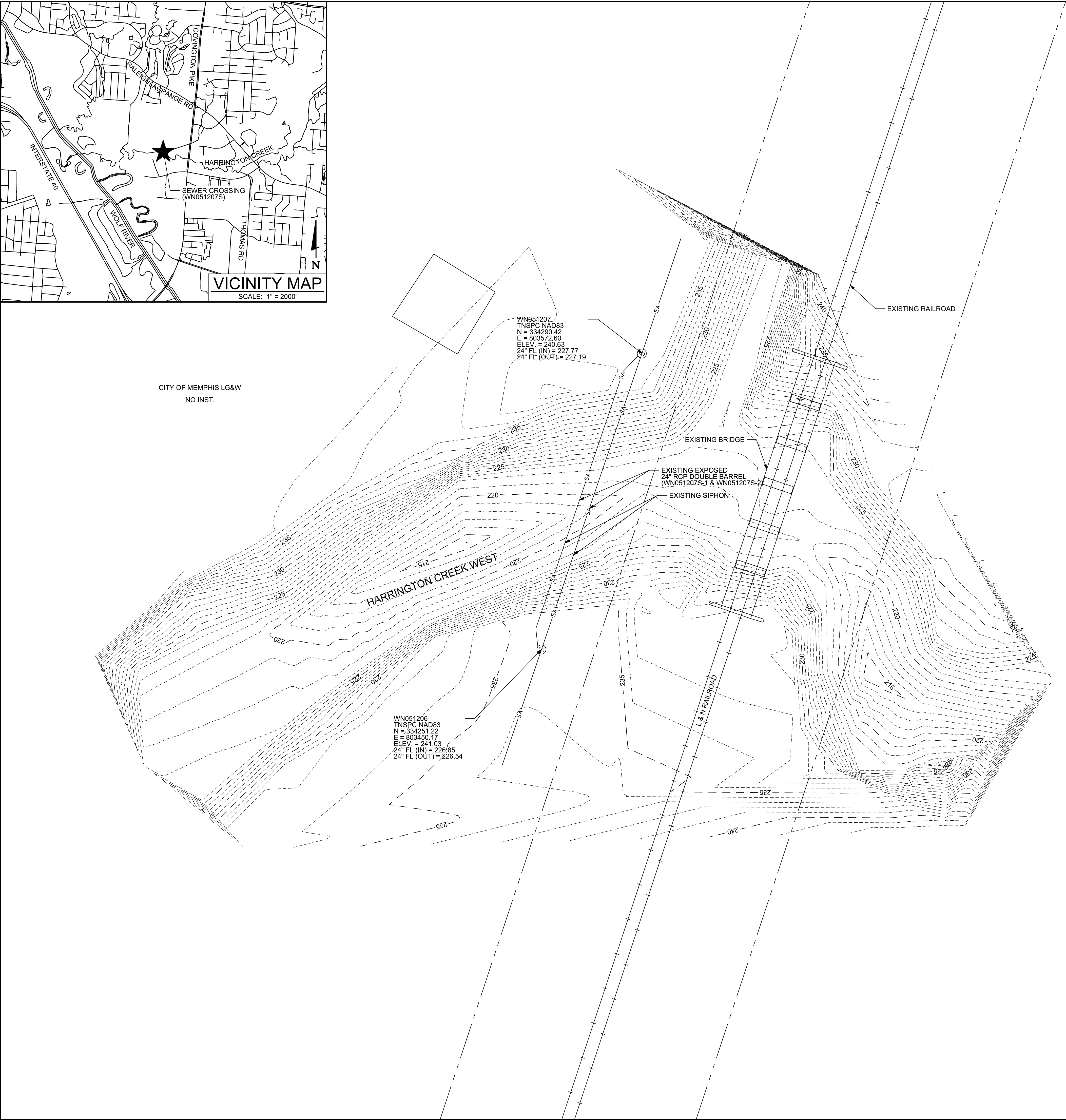
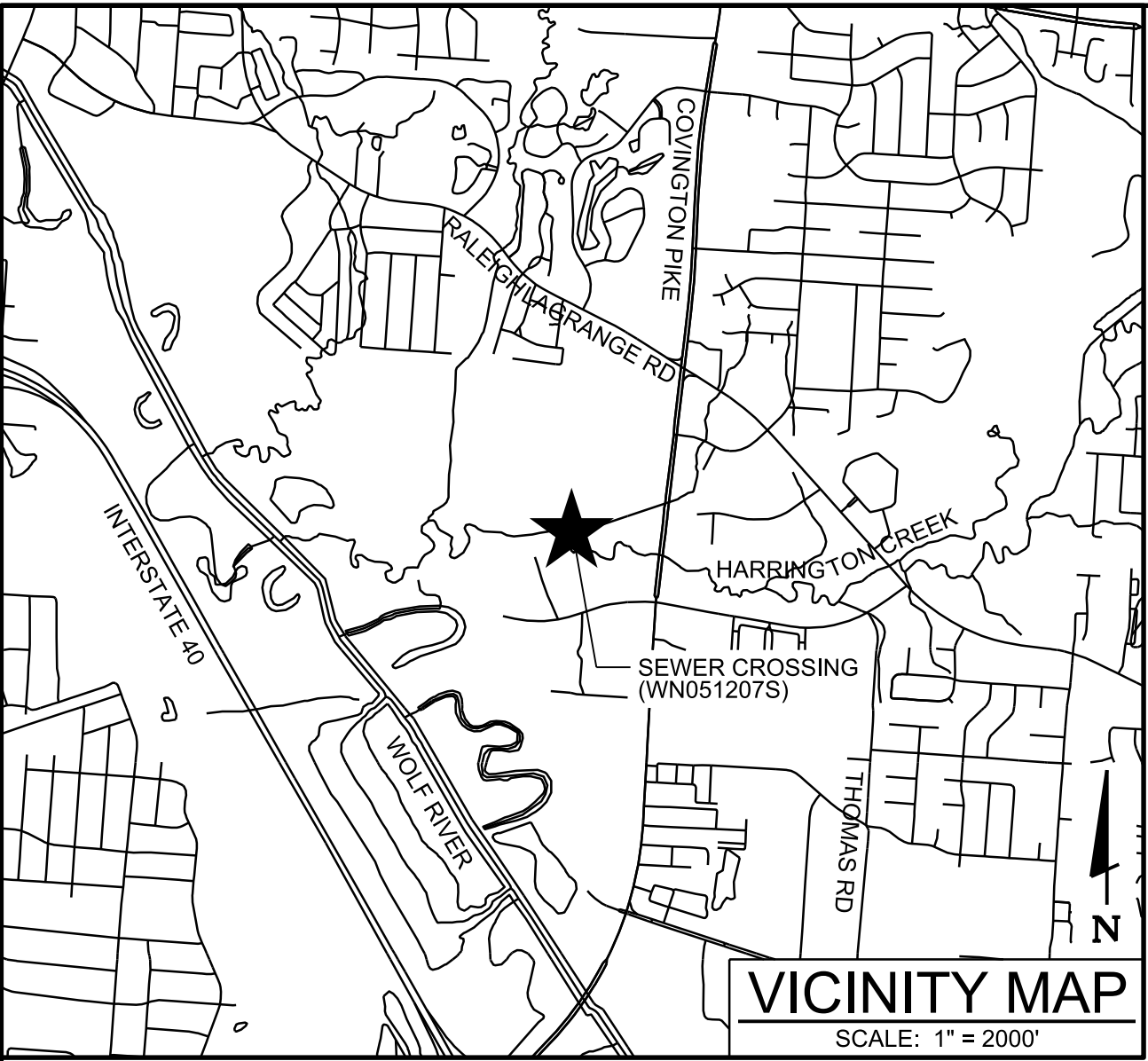
NOT TO SCALE

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C0.01



- GENERAL NOTES:**
1. THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
 2. GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
 3. ALL RIP RAP TO EXTEND TO BOTTOM OF DITCH AND FULLY PROTECT THE BANK AND EDGES OF OTHER EROSION CONTROL DEVICES.
 4. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
 5. NEWLY CUT OR FILLED EMBANKMENTS SHALL BE SODDED OR SEEDED AND MULCHED TO ADEQUATELY PREVENT SOIL EROSION. STAKE SOD SLOPES 3:1 OR GREATER.
 6. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
 7. THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
 8. ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITHIN 3% OPTIMUM MOISTURE CONTENT IN 6" LIFTS UNLESS OTHERWISE SPECIFIED (TYP). SUBMIT TEST RESULTS TO SARP10.
 9. ALL AREAS TO BE FILLED SHALL BE PROPERLY CLEARED AND STRIPPED PRIOR TO BEGINNING THE FILLING OPERATION.
 10. THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
 11. ALL RIP-RAP SHALL BE PLACED ON NON-WOVEN GEOTEXTILE, OR APPROVED EQUAL.
 12. ALL WORK SHALL BE DONE IN DRY CONDITIONS. CONTRACTOR SHALL MAKE PROVISIONS TO KEEP STORM WATER, LATERAL WATER AND GROUND WATER OUT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DEWATER THE SITE AS NECESSARY SO THAT PLACEMENT OF ALL RIP-RAP, OR GROUTING OF ANY RIP-RAP WILL BE IN DRY CONDITIONS.
 13. CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL PROJECT TESTING. SOIL AND OTHER MATERIAL TESTING SHALL BE PERFORMED BY A LICENSED GEOTECHNICAL FIRM.
 14. CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING. SURVEY DATA SHALL BE PROVIDED BY A REGISTERED LAND SURVEYOR.

- TYPICAL CONSTRUCTION NOTES:**
1. ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
 2. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE 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 TVA, CALL 1-800-351-1111. FOR SEWER AND/OR WATER SERVICE LOCATIONS, CALL 901-529-8025.
 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 901-636-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION, UNLESS OTHERWISE NOTED ON PLANS. SOD SLOPES AND MULCH ALL OTHER AREAS.
 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
 7. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SEDIMENT RELEASE INTO EXISTING DRAINAGE SYSTEM AND/OR ONTO ADJACENT PROPERTIES.
 8. THE CONTRACTOR SHALL MAINTAIN BARRICADES, FENCES, GUARDS, AND FLAGMEN AS REASONABLY NECESSARY TO ENSURE THE SAFETY OF ALL PERSONS AT OR NEAR THE PROJECT SITE DURING CONSTRUCTION. ALL CONSTRUCTION MATERIAL, INCLUDING, WITHOUT LIMITATION, MUD, SILT, DIRT, AND GRAVEL SHALL BE KEPT OFF EXISTING STREETS AT ALL TIMES. IN THE EVENT SUCH MUD, SILT, DIRT, GRAVEL, OR OTHER CONSTRUCTION MATERIAL IS WASHED, BLOWN, OR CARRIED INTO AN EXISTING STREET, THE DEVELOPER SHALL TAKE IMMEDIATE STEPS TO REMOVE SUCH MATERIALS. IF THE DEVELOPER DOES NOT REMOVE SUCH MATERIALS AFTER NOTIFICATION BY THE CITY, AND THE CITY DEEMS IT NECESSARY TO CLEAN THE AFFECTED STREETS, THE DEVELOPER AGREES TO REIMBURSE THE CITY FOR ALL SUCH EXPENSES.
 9. ALL STREETS SHALL BE KEPT CLEAR AND FREE OF DIRT AND DEBRIS.
 10. ALL CONSTRUCTION ACTIVITY SHALL BEGIN NO EARLIER THAN 7:00 A.M. AND END NO LATER THAN 6:00 P.M., MONDAY THRU SATURDAY, AND NO CONSTRUCTION ACTIVITY SHALL BE PERMITTED ON SUNDAYS.
 11. CONTRACTOR SHALL RESTORE OFF-SITE ACCESS ROUTES AND ALL DISTURBED AREAS TO ORIGINAL BEFORE START-OF-WORK CONDITION.

FLOOD HAZARD NOTE:

THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "AE" (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT ANNUAL CHANCE FLOOD EVENT DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0285F, DATED SEPTEMBER 28, 2007. THE NEAREST BFE IS 241.1.

STREAM WATER FLOW WILL BE 7738 CFS IN THE EVENT OF A 100-YEAR STORM EVENT.

BENCHMARK NOTE:

CITY OF MEMPHIS BENCHMARK #1642 - COVINGTON PIKE & RALEIGH-LAGRANGE RD: CITY CAP IS LOCATED ON THE E. SIDE OF COVINGTON PIKE, SET 6-4-03, GLUED TO BACK OF S/WALK, 524' N. OF CENTERLINE OF RALEIGH LAGRANGE, AT S. EDGE OF A D/WAY APPROX JUST N. OF ADDRESS 2548 COVINGTON PIKE. GPS 730 ELEV. 290.62

- LEGEND:**
- EXISTING PROPERTY BOUNDARY
 - EXISTING MINOR CONTOUR
 - 250--- EXISTING MAJOR CONTOUR
 - SA— EXISTING SANITARY SEWER LINE
 - ⊙ EXISTING MANHOLE

20' 10' 0' 20' 40'

SCALE: 1 INCH = 20 FEET

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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



HARRINGTON CREEK WEST
BANK STABILIZATION/GRADE CONTROL
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

SEWER-BASIN: WN-05
DRAIN-BASIN: HARRINGTON

C0.31

SHEET 2 OF 9

EXISTING-CONDITIONS
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL
MEMPHIS, TENNESSEE

SURVEY: GEODESY DATE: 05/19 PROJECT NO.: 36592-02
DESIGN BY: BARGE DATE: 07/19 SCALE: 1" = 20'
REVIEWED

DEPUTY-CITY-ENGINEER DATE CITY-ENGINEER DATE

14' WIDE PROPOSED GRAVEL HAUL ROAD
(SEE INSET 01, THIS SHEET)
(SEE DETAIL 02, SHEET C7.22)

SEE INSET FOR CONTINUATION

CITY OF MEMPHIS LG&W
NO INST.

DISTURBED AREA
LIMITS = 1.58 ACRES

INSTALL PROPOSED SILT FENCE (TYP.)
(SEE DETAIL 02, SHEET C7.21)

INSTALL PROPOSED
SEDIMENT FILTER BAG
(SEE DETAIL 01, SHEET C7.22)

INSTALL PROPOSED SANDBAG BERM
OR APPROVED EQUIVALENT (TYP.)

INSTALL PROPOSED ORANGE
CONSTRUCTION FENCE (TYP.)
(SEE DETAIL 01, SHEET C7.21)

CLEAN WATER DIVERSION

CONSTRUCTION SHALL BE PERFORMED IN THE
DRY. CONTRACTOR SHALL USE AN APPROVED
METHOD TO CONVEY WATER THROUGH THE SITE.
CONTRACTOR SHALL PROVIDE A DIVERSION PLAN
STAMPED BY A TENNESSEE PE FOR REVIEW AND
APPROVAL BY THE PURCHASER (TYP.)

WN051208
TNSPC NAD83
N = 334251.22
E = 803450.17
ELEV. = 241.03
24" FL (IN) = 228.85
24" FL (OUT) = 226.54

CHISWOLD ST

COVINGTON PIKE

EXISTING PAVEMENT OR CONCRETE (ROADWAY, CURB &
GUTTER, ETC.) DAMAGED DURING CONSTRUCTION
SHALL BE SAWCUT BEYOND LIMITS OF DAMAGE AND REPAIRED.
(SEE DETAILS 02 & 03, SHEET C7.01)

DISTURBED AREA
LIMITS = 1.58 ACRES

INSTALL PROPOSED
CONSTRUCTION EXIT
(SEE DETAIL 03, SHEET C7.21)

14' WIDE PROPOSED GRAVEL HAUL ROAD
(SEE DETAIL 02, SHEET C7.22)

01 INSET
C2.41 SCALE: 1" = 120'

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL STRUCTURES SHALL BE IN PLACE AND FUNCTIONAL PRIOR TO GRADING, EXCAVATION, TOP SOIL REMOVAL, TREE REMOVAL, OR PIPE-LAYING OPERATIONS.
2. ALL EROSION CONTROL STRUCTURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE ENTIRE TIME OF CONSTRUCTION OPERATIONS AND UNTIL VEGETATION IS ESTABLISHED ON ALL BARE, DISTURBED AREAS.
3. KEEP CONSTRUCTION DEBRIS, MUD AND SILT FROM ENTERING DITCH CHANNELS OR LEAVING THE JOB SITE AT ALL TIMES UNTIL SITE IS COMPLETELY STABILIZED.
4. UNLESS OTHERWISE NOTED, TURF REINFORCED MATTING SHOULD BE USED ON SLOPES GREATER THAN 3:1 TO PREVENT EROSION RILLS FROM FORMING.
5. EROSION CONTROLS ARE NOT LIMITED TO WHAT IS SHOWN ON APPROVED EROSION CONTROL PLANS. ADDITIONAL EROSION CONTROL STRUCTURES OR MEASURES MAY BE NEEDED AS CONDITIONS WARRANT OR AS DIRECTED BY THE PROJECT ENGINEER, CITY ENGINEER OR CITY INSPECTOR.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING ANY CONSTRUCTION OR OTHER ACTIVITY ON THE SITE AND FOR SATISFYING THE REQUIREMENTS OF THE STATE OF TENNESSEE DEPARTMENT OF WATER POLLUTION CONTROL AS SET FORTH IN THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK.
7. ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDED, AND/OR SODDED TO EFFECTIVELY CONTROL SOIL EROSION. THE SEED AND FERTILIZER WILL BE COVERED WITH TURF REINFORCED MATTING ON SLOPES GREATER THAN 3:1.
8. PROVIDE THE NAME AND PHONE NUMBER OF THE PERSON OR PERSONS RESPONSIBLE FOR EROSION CONTROL AND/OR MUD/DIRT IN THE STREET REMOVAL TO THE CITY INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
9. ALL CONTROL MEASURES SHALL BE CHECKED TWICE A WEEK AND AT LEAST 72 HOURS APART. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
10. TOTAL DISTURBED AREA IS 1.58 ACRES.
11. GRADING AND UTILITY WORK IS TO BE PERFORMED IN THE DRY. CONTRACTOR TO USE CLEAN WATER DIVERSION, SAND BAG BERM SHALL BE INCLUDED IN THE COST OF THE "CLEAN WATER DIVERSION". CONTRACTOR SHALL SUBMIT A PLAN STAMPED BY A TENNESSEE PE FOR REVIEW AND APPROVAL BY THE PURCHASER/ENGINEER.

PHASE I SEQUENCING NOTES:

1. INSTALL CONSTRUCTION EXIT AND HAUL ROAD AS SHOWN. THIS WILL BE THE FIRST BMP INSTALLED ON SITE.
2. INSTALL ORANGE CONSTRUCTION FENCE
3. SILT FENCE TO BE INSTALLED ALONG TOE OF SLOPE AS SHOWN.
4. INSTALL CLEAN WATER DIVERSION AS SHOWN.
5. PERFORM REQUIRED EXCAVATION AND UTILITY WORK.
6. SEDIMENT FILTER BAG SHALL BE USED TO PERFORM DEWATERING OPERATIONS.

FLOOD HAZARD NOTE:

THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "AE" (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT ANNUAL CHANCE FLOOD EVENT DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0285F, DATED SEPTEMBER 28, 2007. THE NEAREST BFE IS 241.1.

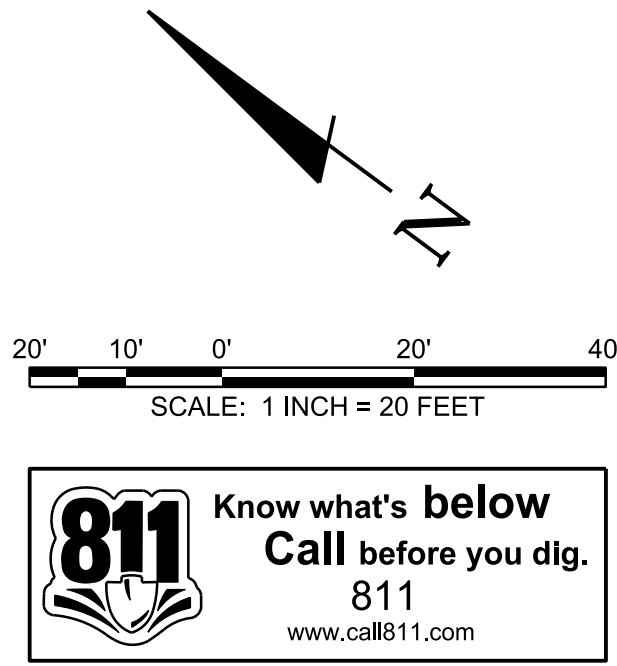
STREAM WATER FLOW WILL BE 7738 CFS IN THE EVENT OF A 100-YEAR STORM EVENT.

BENCHMARK NOTE:

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LEGEND:

- EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- XX- ORANGE CONSTRUCTION FENCE
- SF - SILT FENCE
- DISTURBED AREA LIMITS
- [Hatched Box] SANDBAG BERM
- [Stippled Box] CONSTRUCTION EXIT



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



HARRINGTON CREEK WEST
BANK STABILIZATION/GRADE CONTROL
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

SEWER-BASIN: WN-05
DRAIN-BASIN: HARRINGTON

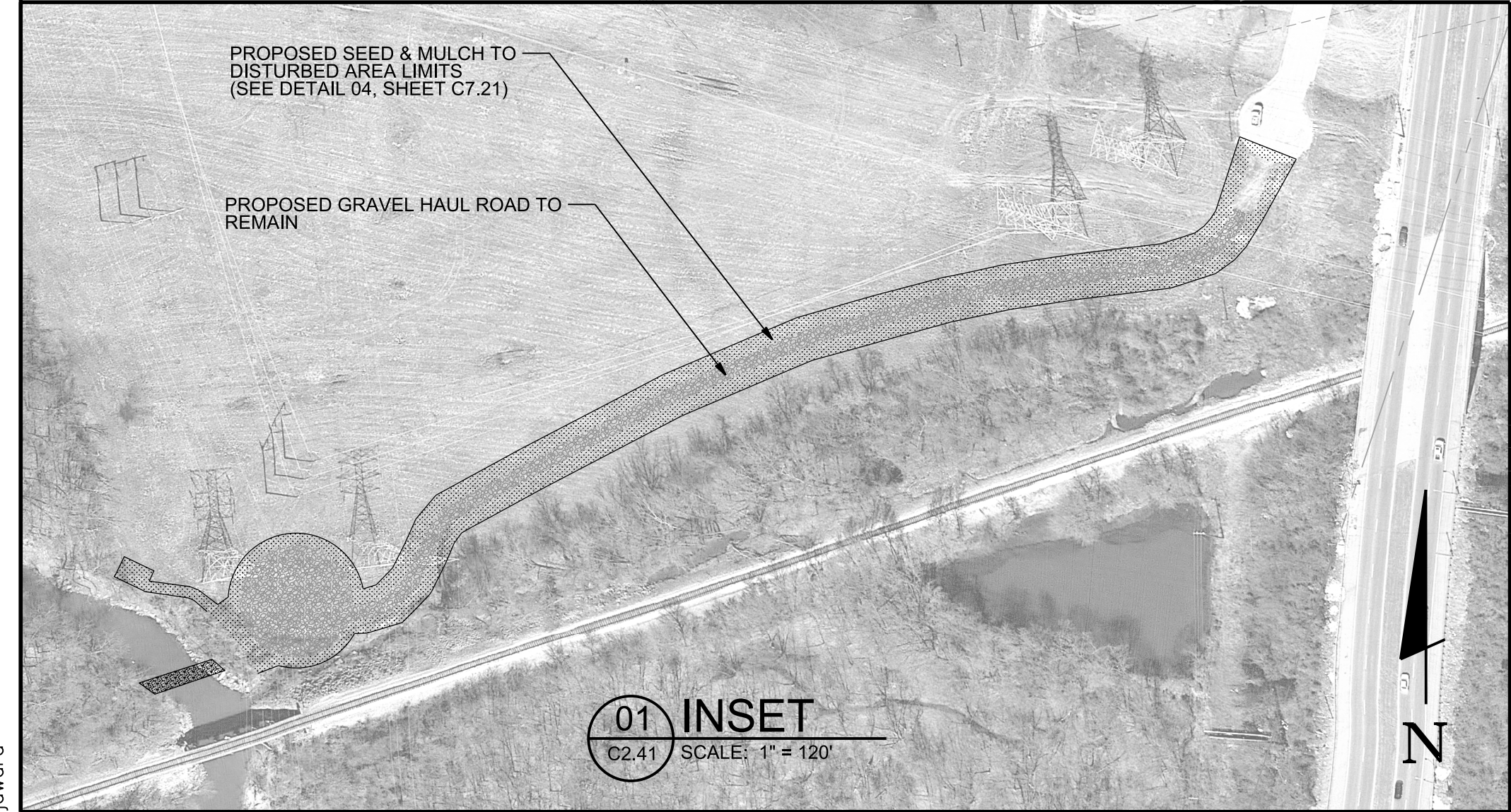
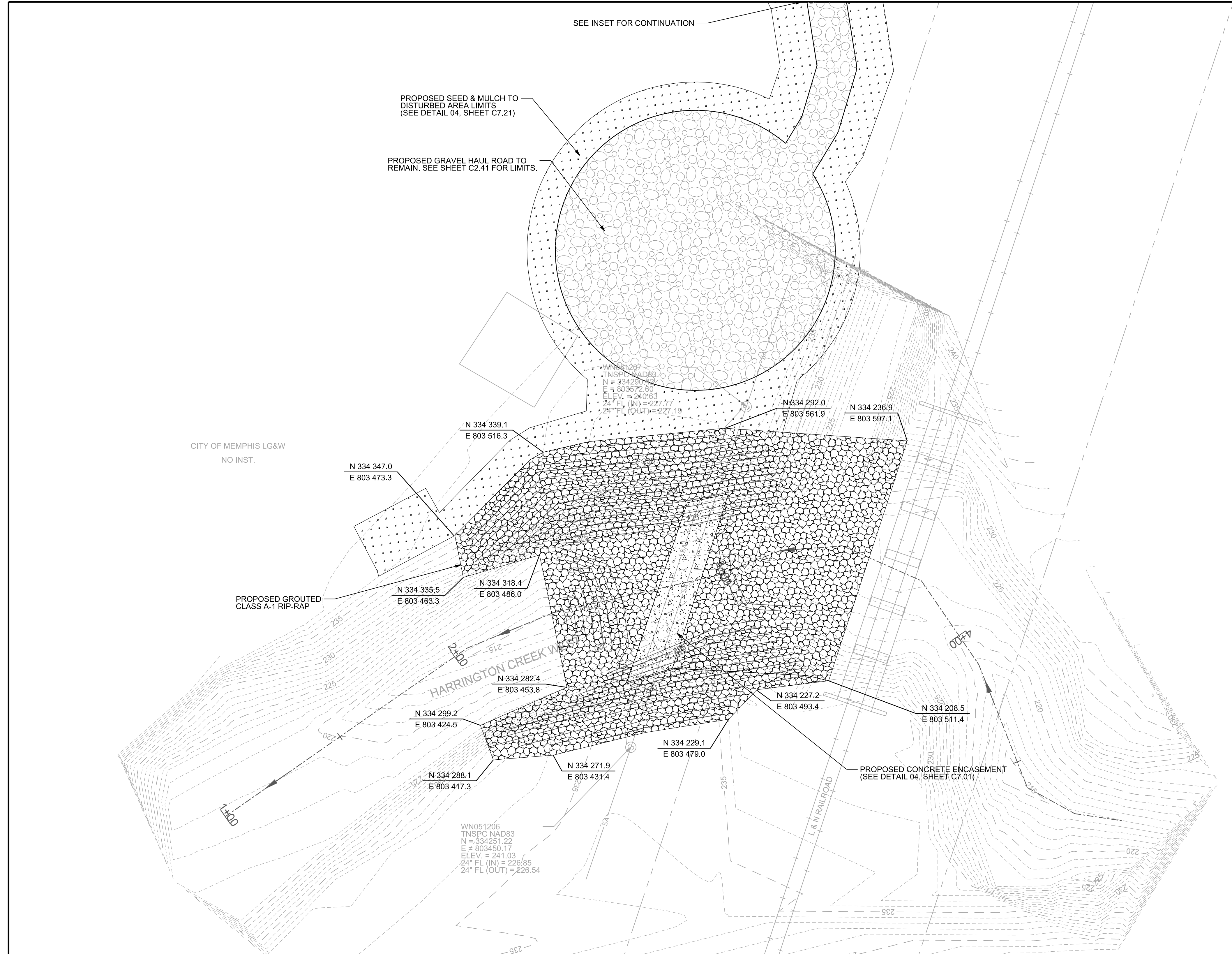
C2.41

SHEET 4 OF 9

EROSION-CONTROL-PLAN-PHASE-I
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL
MEMPHIS, TENNESSEE

SURVEY: GEODESY DATE: 05/19 PROJECT NO.: 36592-02
DESIGN BY: BARGE DATE: 07/19 SCALE: 1" = 20'
REVIEWED

DEPUTY-CITY-ENGINEER DATE CITY-ENGINEER DATE



PHASE II SEQUENCING NOTES:

1. MAINTAIN BMPs INSTALLED DURING PHASE I.
2. STABILIZE SITE AS SHOWN. ALL OTHER DISTURBED AREAS NOT RECEIVING GROUTED CLASS A-1 RIP-RAP OR NATIVE MATERIAL WILL BE SEEDED AND MULCHED.
3. REMOVE BMPs WHEN SITE IS STABLE.

EROSION CONTROL NOTES:

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7. ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDED, AND/OR SODDED TO EFFECTIVELY CONTROL SOIL EROSION. THE SEED AND FERTILIZER WILL BE COVERED WITH TURF REINFORCED MATTING ON SLOPES GREATER THAN 3:1.
8. PROVIDE THE NAME AND PHONE NUMBER OF THE PERSON OR PERSONS RESPONSIBLE FOR EROSION CONTROL AND/OR MUD/DIRT IN THE STREET REMOVAL TO THE CITY INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
9. ALL CONTROL MEASURES SHALL BE CHECKED TWICE A WEEK AND AT LEAST 72 HOURS APART, DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
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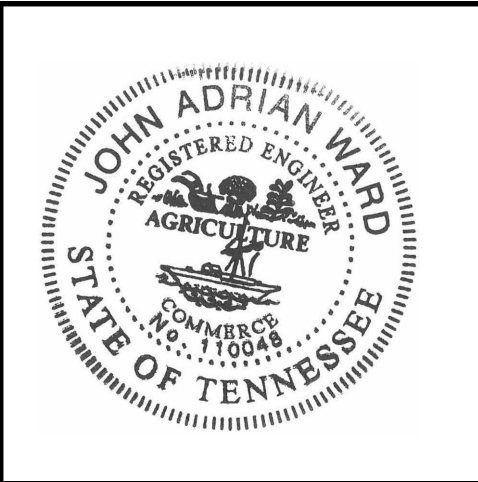
- EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - - - PROPOSED MAJOR CONTOUR
- [Pattern] PROPOSED GROUTED CLASS A-1 RIP RAP
- [Pattern] PROPOSED NATIVE CHANNEL FILL
- [Pattern] PROPOSED SEED & MULCH
- [Pattern] PROPOSED GRAVEL HAUL ROAD

20' 10' 0' 20' 40'

SCALE: 1" = 20 FEET

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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
1	REVISION 1	8/19/2020



HARRINGTON CREEK WEST
BANK STABILIZATION/GRADE CONTROL
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

SEWER-BASIN: WN-05
DRAIN-BASIN: HARRINGTON

SHEET 5 OF 9

**EROSION-CONTROL-PLAN-PHASE-II
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL**

MEMPHIS, TENNESSEE

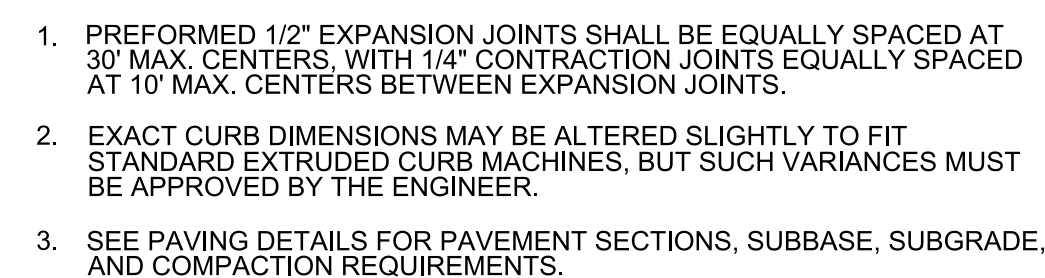
SURVEY: GEODESY DATE: 05/19 PROJECT NO.: 36592-02
DESIGN BY: BARGE DATE: 07/19 SCALE: 1" = 20'
REVIEWED

DEPUTY-CITY-ENGINEER DATE CITY-ENGINEER DATE

C2.51



- NOTES:**
1. INSTALL ALL EROSION CONTROL NECESSARY TO COMPLETE CROSSING PRIOR TO EXCAVATION IN THE STREAM CHANNEL.
 2. AT LOW FLOW CONDITIONS, BYPASS PUMP OR DIVERT STREAM FLOW AROUND EXCAVATION.
 3. PLACE SILT FENCE ON EACH SIDE OF CHANNEL.
 4. PUMP ANY TRAPPED WATER TO A SEDIMENT FILTER BAG.
 5. AFTER INSTALLING PIPE AND CONCRETE, CONSTRUCT THE CHANNEL TO THE EXPOSED BEDROCK SURFACE CONTOURS AND STABILIZE WITH GROUTED RIP-RAP.

C7.01

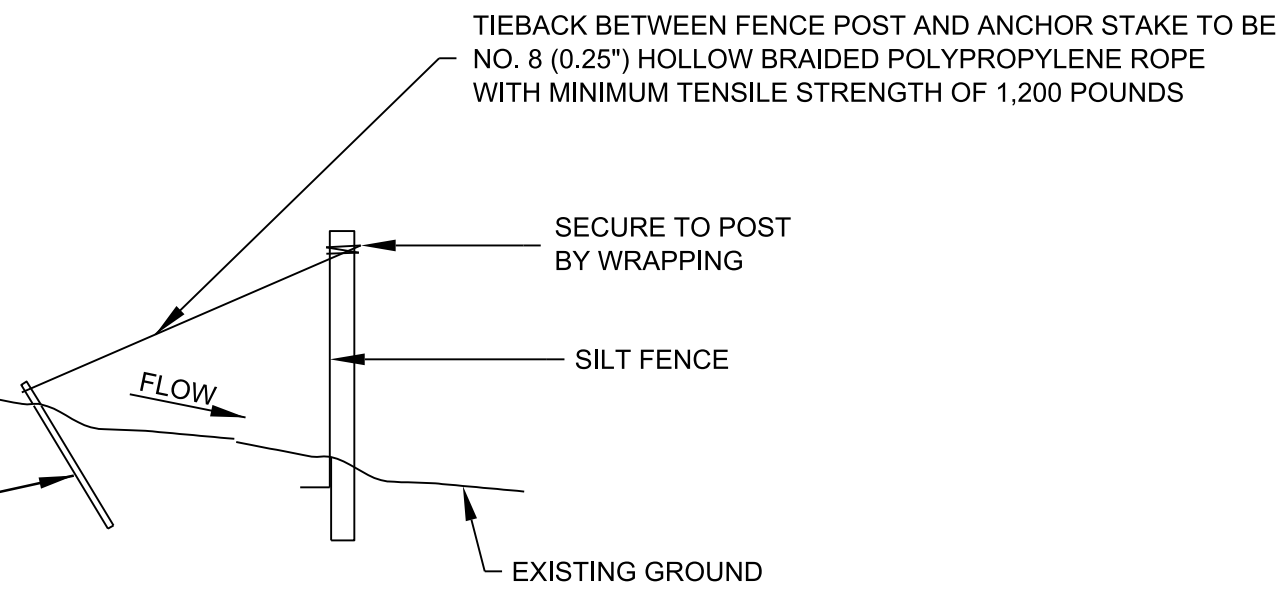
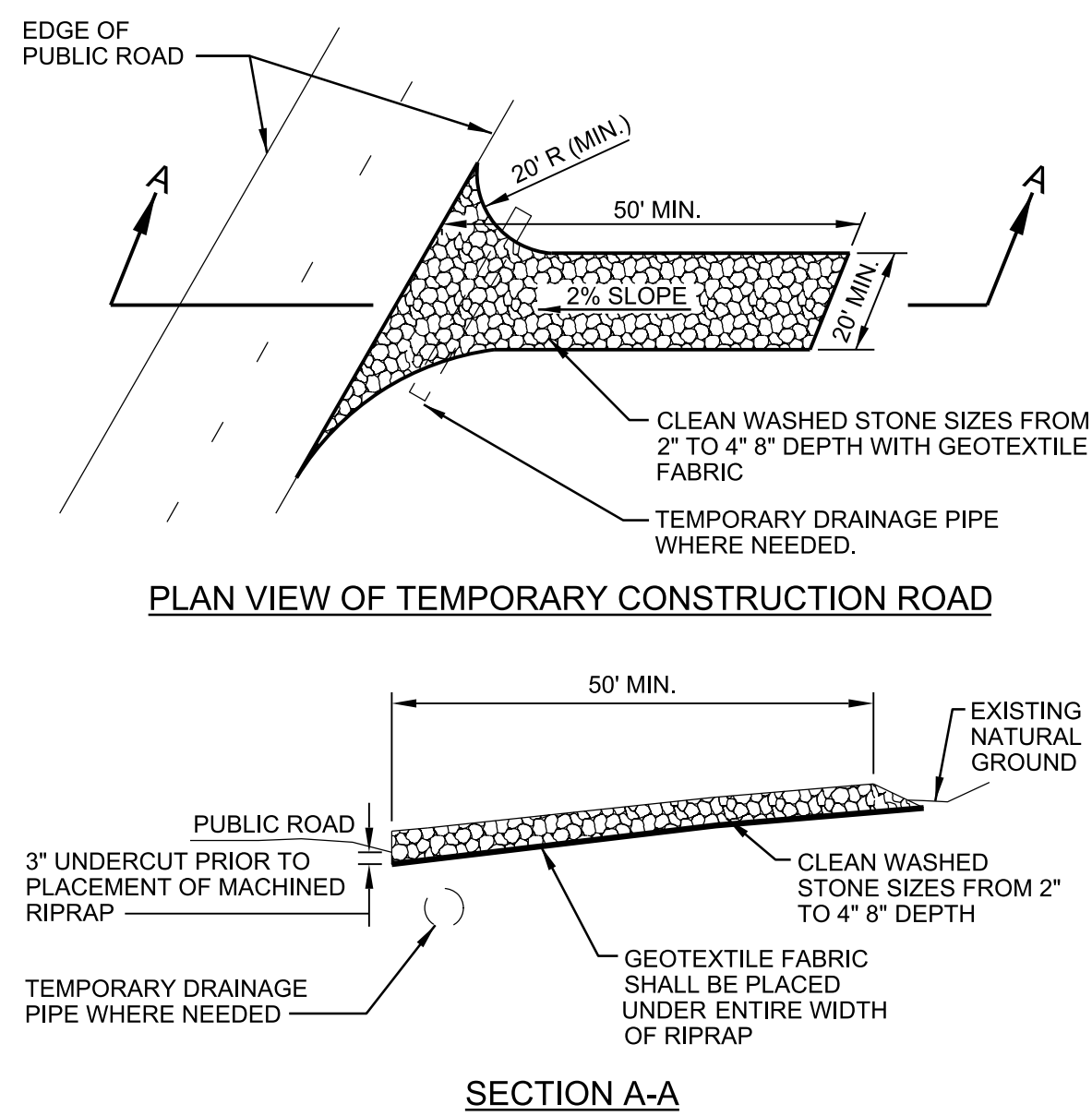
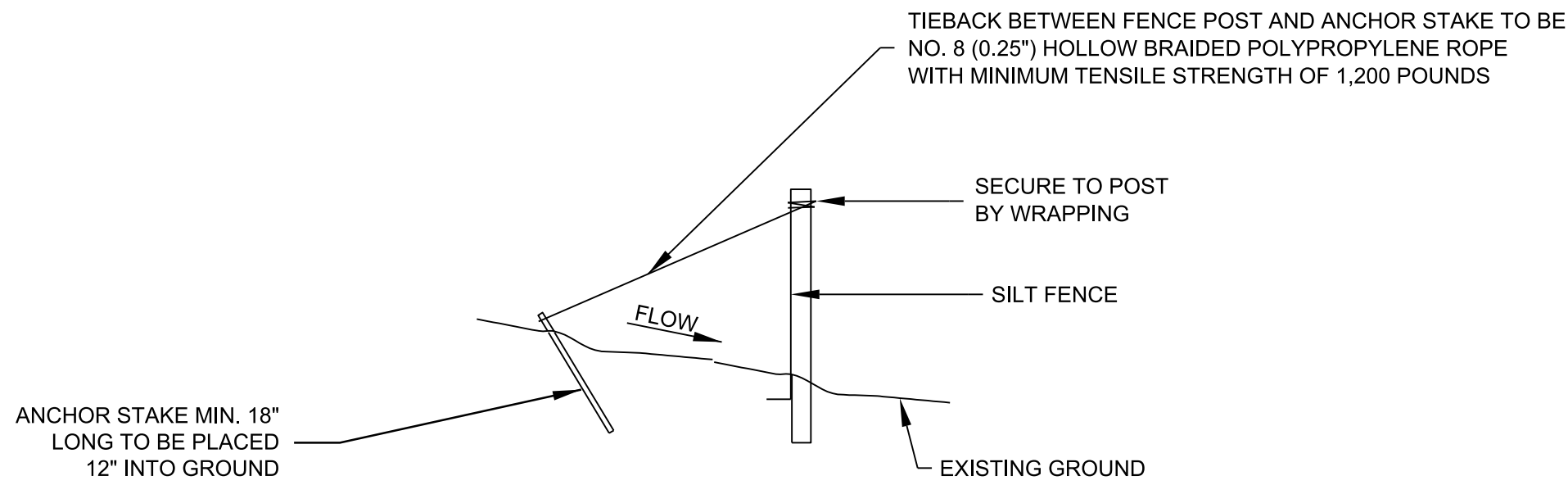
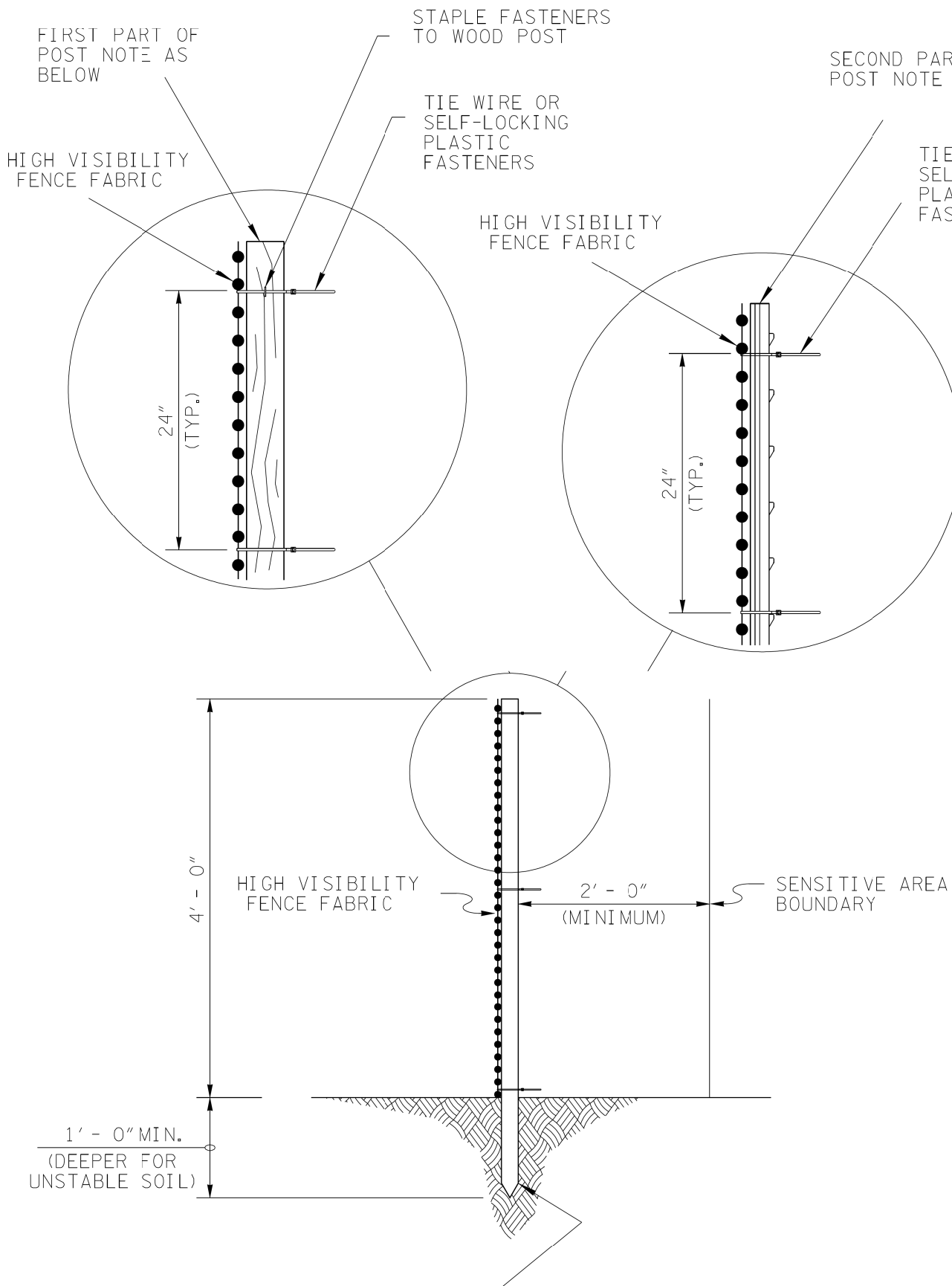
SHEET 7 OF 9

CIVIL-DETAILS
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL

SURVEY: GEODESY	DATE: 05/19	PROJECT NO.: 36592-02
DESIGN BY: BARGE	DATE: 07/19	SCALE: 1" = 20'
	REVIEWED	

DEPUTY-CITY-ENGINEER	DATE	CITY-ENGINEER	DATE
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HARRINGTON-CREEK-WEST
BANK STABILIZATION/GRADE CONTROL
MEMPHIS, TENNESSEE
DEVELOPER: SARPIO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.



- ## SILT FENCE NOTES
1. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION FOR GEOTEXTILES AASHTO DESIGNATION: M288, SEDIMENT CONTROL, SELF SUPPORTED.
 2. THE FILTER MATERIAL SHALL BE STAPLED TO THE STAKES. HEAVY DUTY WIRE (STD. IN.) HARDWOOD POST (OAK OR HICKORY) - LENGTH 48" OR MINIMUM 1.33 LB./FT. STEEL POST (STD. OR U SECTION).
 3. MINIMUM (2" NOMINAL X 2" NOMINAL) - (1.5" ACTUAL X 1.5" ACTUAL) (2.25 STD. IN.) HARDWOOD POST (OAK OR HICKORY) - LENGTH 48" OR MINIMUM 1.33 LB./FT. STEEL POST (STD. OR U SECTION).
 4. WHEN STEEL POSTS ARE USED THEY SHALL HAVE A PROTECTION FOR FASTENING WIRE TO THEM. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST FIVE PER POST.
 5. BINDING WIRE OR TWINE SHALL REMAIN ON STRAW BALES.
 6. PLACE STRAW BALES ON ALL DOWN STREAM SIDES OF ALL SILT FENCES.
 7. STRAW BALES TO BE PLACED END TO END UP AGAINST THE SILT FENCE.
 8. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN 12" DEEP.
 9. INSTALL FENCE ALONG CONTOUR (NEVER UP AND DOWN SLOPE).
 10. SILT FENCE SHALL BE MAINTAINED UNTIL CONTRIBUTING AREA IS STABILIZED WITH PAVEMENT OR VEGETATION. ALL FENCING SHALL BE REMOVED AFTER STABILIZATION AND DISPOSED OF IN AN APPROVED LANDFILL.

PERMANENT COVER SEEDING MIXTURES			
KIND	GROUP A % BY WEIGHT	GROUP B % BY WEIGHT	GROUP C % BY WEIGHT
LESPEDEZA (COMMON OR KOREAN)	20	-	-
SERICEA LESPEDEZA	15	-	50
KY. 31 FESCUE	40	55	30
ENGLISH RYE	15	20	15
WHITE DUTCH CLOVER	5	5	5
WEEPING LOVE GRASS	5	5	-
REDTOP	-	15	-
TOTAL	100	100	100
TIME OF SOWING & SEEDING MIXTURE REQUIRED			
FEBRUARY 1 TO AUGUST 1	USE GROUP A ONLY		
MONTH OF AUGUST ONLY	USE EITHER GROUP A OR GROUP B		
SEPTEMBER 1 TO DECEMBER 1	USE GROUP B ONLY		
DECEMBER 1 TO FEBRUARY 1	DO NOT SOW ANY SEED		
FEBRUARY 1 TO DECEMBER 1	USE GROUP C ONLY WHEN SPECIFIED ON PLANS OR CONTRACT DOCUMENTS		

COVER SEEDING MIXTURES

[illegible]

SEWER-BASIN: WN-05
DRAIN-BASIN: HARRINGTON

C7.21

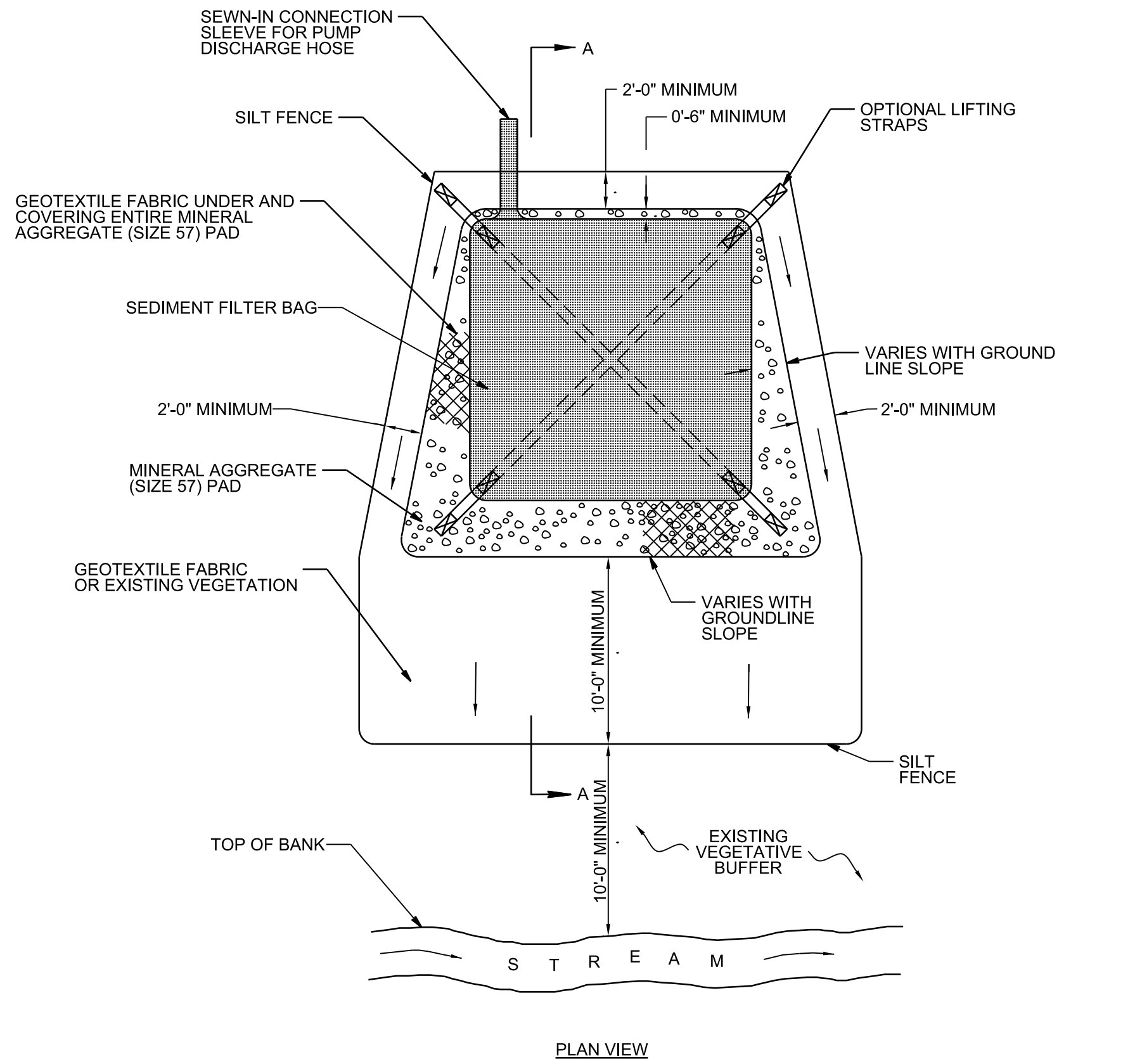
SHEET 8 OF 9

EROSION-CONTROL-DETAILS
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL

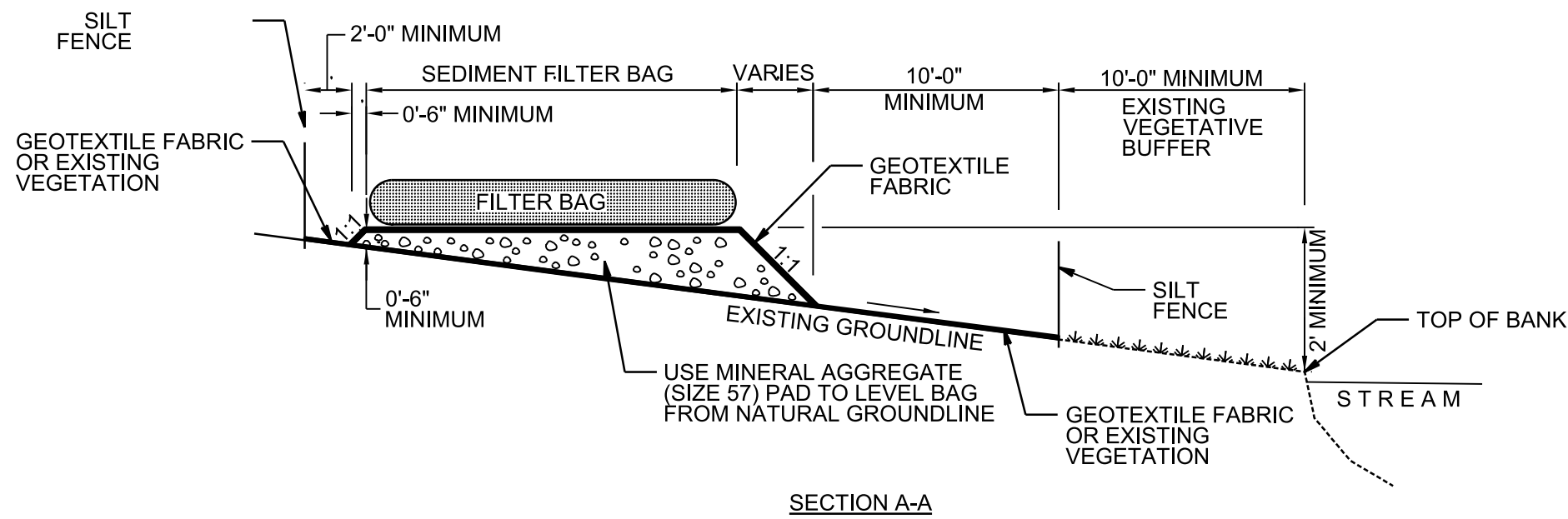
MEMPHIS, TENNESSEE

SURVEY: GEODESY DATE: 05/19 PROJECT NO.: 36592-02
 DESIGN BY: BARGE DATE: 07/19 SCALE: N.T.S.
 REVIEWED

DEPUTY-CITY-ENGINEER	DATE	CITY-ENGINEER	DATE
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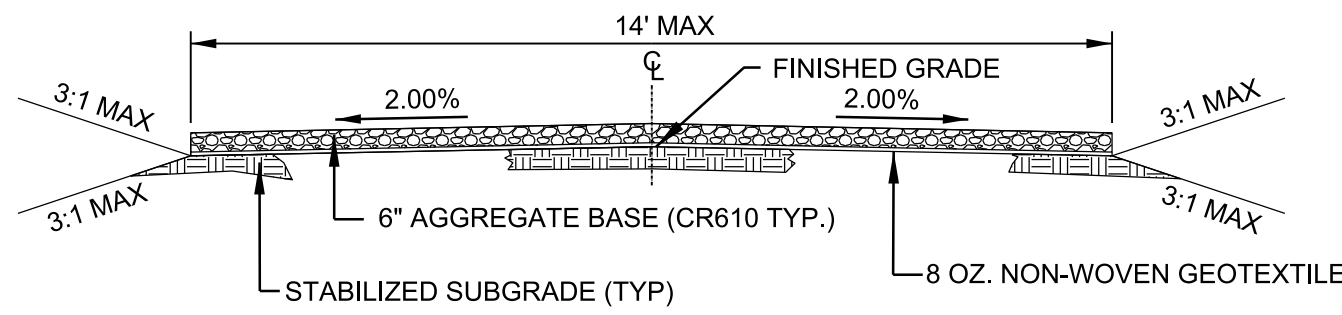


PLAN VIEW



SECTION A-A

01 SEDIMENT FILTER BAG DETAIL
C7.22 SCALE: N.T.S.

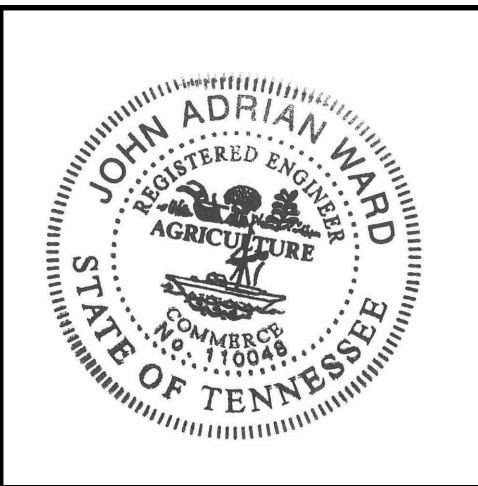


NOTES:

1. PLACE CR610 (TYP.) IN TWO COMPACTED LIFTS TO 100% STANDARD PROCTOR ASTM D698.
2. PLACE SEPARATION GEOTEXTILE FABRIC BETWEEN SUBGRADE AND AGGREGATE BASE.
3. FILL TO ACHIEVE SUBGRADE ELEVATION. SUBGRADE TO BE PLACED ON STABLE EXISTING GROUND AFTER IT HAS BEEN GRUBBED, STRIPPED, AND PROOFROLLED TO SHOW STABILITY.
4. IF UNSTABLE, UNDERCUT AS NEEDED AND APPROVE BY ENGINEER.
5. SIDE SLOPES NO STEEPER THAN 1V:3H AND VEGETATE AS NEEDED FOR EROSION PROTECTION.
6. COST FOR HAUL ROAD SHALL BE PAID FOR UNDER "CONSTRUCTION EXIT".

02 TYPICAL HAUL ROAD DETAIL
C7.22 SCALE: N.T.S.

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SEWER-BASIN: WN-05
DRAIN-BASIN: HARRINGTON

C7.22

SHEET 9 OF 9

EROSION-CONTROL-DETAILS
HARRINGTON-CREEK-WEST
BANK-STABILIZATION/GRADE-CONTROL
MEMPHIS, TENNESSEE

SURVEY: GEODESY DATE: 05/19 PROJECT NO.: 36592-02
DESIGN BY: BARGE DATE: 07/19 SCALE: N.T.S.
REVIEWED

DEPUTY-CITY-ENGINEER DATE CITY-ENGINEER DATE

HARRINGTON-CREEK-WEST
BANK STABILIZATION/GRADE CONTROL
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.