

LOCATION SKETCH

CITY OF BROOKHAVEN PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT

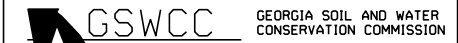
DEKALB COUNTY

FEDERAL ROUTE No.: N/A
STATE ROUTE No.: N/A
PROJECT No.: SSD2022.01



PRIMARY PERMITTEE

CITY OF BROOKHAVEN PUBLIC WORKS
4362 Peachtree Rd NE
Brookhaven, Georgia 30319
Phone: (404) 637-0682
Email: don.sherrill@brookhavenga.gov



WARREN W DIMSDALE
Level II Certified Design Professional

CERTIFICATION NUMBER 0000010600
ISSUED 09/01/2022 EXPIRES 09/01/2025

DESIGN DATA:
TRAFFIC A.A.D.T.: 4300 (2018)
DIRECTIONAL DIST: 50%
% TRUCKS: N/A
24 HR. TRUCKS %: N/A
SPEED DESIGN: 25 MPH
WEST NANCY CREEK DR NE

LOCATION & DESIGN APPROVAL DATE: N/A
FUNCTIONAL CLASS: LOCAL
THIS PROJECT IS 100% IN DEKALB COUNTY AND IS 100% IN CONG. DIST. NO.6.
PROJECT DESIGNATION: DESIGNED IN ENGLISH UNITS.

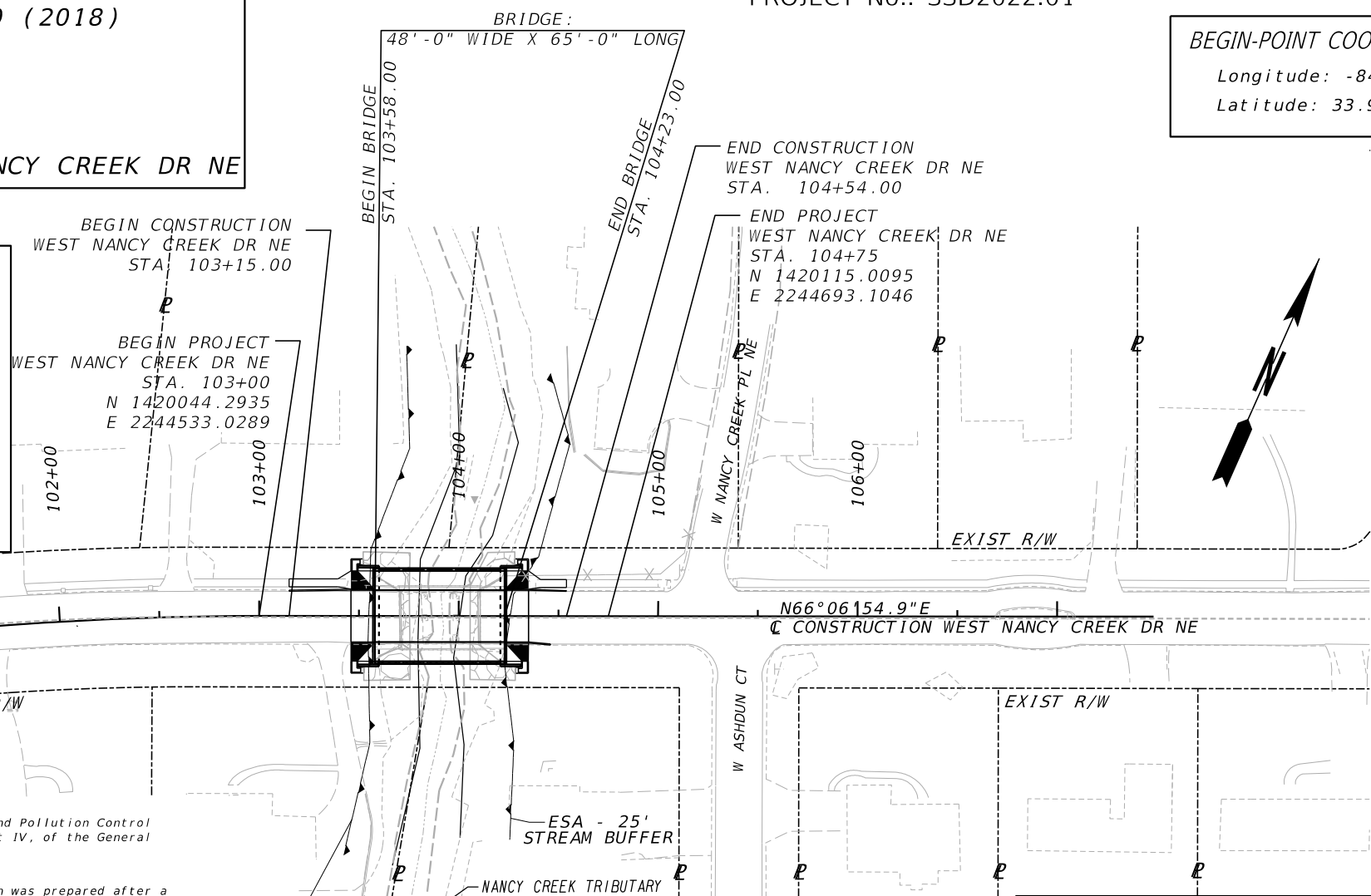
THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/2011 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GARI00002."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."

Warren W. Dimsdale
SIGNATURE DATE

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



BEGIN-POINT COORDINATES	MID-POINT COORDINATES	END-POINT COORDINATES
Longitude: -84.3382° Latitude: 33.9036°	Longitude: -84.3379° Latitude: 33.9037°	Longitude: -84.3377° Latitude: 33.9038°

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2023 CONSTRUCTION STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2023 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT: <http://mvdcs.dot.ga.gov/info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx> ANY REVISIONS CONTAINED WITH THIS PLAN SET SUPERSEDE THE 2023 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.

24 HOUR CONTACT:

Name _____

Street Address _____

City, State Zip _____

Phone Number _____

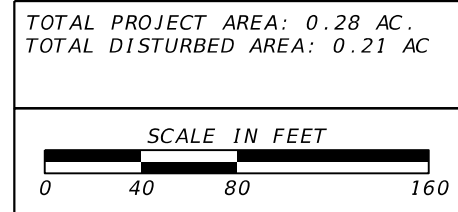
Email Address _____

Contractor shall complete the information in this box.



PLANS PREPARED BY: _____
DESIGN

LENGTH OF PROJECT	Project No. SSD2022.01
	MILES
NET LENGTH OF ROADWAY	0.021
NET LENGTH OF BRIDGES	0.012
NET LENGTH OF PROJECT	0.033
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.033



DATE	PUBLIC WORKS DIRECTOR
PLANS COMPLETED 12-21-2022	
REVISIONS	

PROJECT GENERAL NOTES

1. AN NO1 IS NOT REQUIRED FOR THIS PROJECT.
2. ACCESS SHALL BE MAINTAINED TO DRIVEWAYS THROUGHOUT THE DURATION OF THE PROJECT. THIS PROJECT DOES NOT PROPOSE ANY DRIVEWAY RECONSTRUCTION. EXISTING DRIVEWAYS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CITY IF DAMAGED DURING CONSTRUCTION. IF DRIVEWAYS ARE DAMAGED AND REQUIRE RECONSTRUCTION, THEY SHALL BE PAVED BACK TO THE TIE IN POINT, REQUIRED RIGHT OF WAY, OR TO THE EXTENTS OF THE DAMAGED AREAS, WHICHEVER IS GREATER, ALL DRIVEWAYS OVER 11% IN GRADE SHALL BE PAVED WITH CONCRETE UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER DRIVEWAYS SHALL BE REPLACED AS FOLLOWS: ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH / GRAVEL DRIVES. IF REQUIRED, RESIDENTIAL DRIVEWAYS THAT ARE RECONSTRUCTED SHALL MATCH THE EXISTING WIDTH. EXISTING DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA; THE CONTRACTOR SHALL CONSTRUCT DRIVEWAYS TO MATCH THE LOCATION OF EXISTING DRIVEWAYS AT THE TIE IN POINT, IF APPLICABLE. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:
 - ASPHALT DRIVES - RESIDENTIAL:
RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE 11, BLEND 1, INCL BITUM MATL & H LIME (135 LBS/SY)
GR AGGR BASE CRS, 6 INCH, INCL MAT
 - CONCRETE DRIVES - RESIDENTIAL:
DRIVEWAY CONCRETE. 6 IN TK
3. THE CONTRACTOR SHALL INSTALL ORANGE FABRIC SAFETY FENCING AS SHOWN ON THE CONSTRUCTION PLAN SHEETS TO ENSURE THAT AN ESA IS NOT ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION. NO STAGING OF EQUIPMENT SHALL BE PERMITTED WITHIN THE ENVIRONMENTALLY SENSITIVE AREA BOUNDARIES. INSTALL ORANGE BARRIER FENCE, FOLLOWED BY PERIMETER EROSION CONTROL BEFORE CLEARING AND GRUBBING OPERATIONS.
4. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL, OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
5. THERE IS NO SUITABLE PLACE TO BURY EXITING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF THE EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE CITY.
6. THE REMOVAL OF EXISTING DRAINAGE FEATURES, INCLUDING BUT NOT LIMITED TO PIPES, END TREATMENTS, HEADWALLS, AND WINGWALLS, IS TO BE PAID FOR UNDER GRADING COMPLETE.
7. ANY SHORING USED FOR BRIDGE CONSTRUCTION IS NOT PAID FOR SEPERATLY AND IS TO BE INCLUDED IN THE OVERALL COST BID FOR GRADING COMPLETE.
8. EXISTING BRIDGE HAS BEEN REMOVED BY OTHERS.
9. THE EXISTING WATER MAIN ATTACHED TO THE BRIDGE HAS BEEN REMOVED ACROSS THE CREEK AND WATER MAIN VALVES HAVE BEEN INSTALLED, BY OTHERS.
10. CONTRACTOR SHALL REPAIR ASPHALT IF DAMAGED DURING CONSTRUCTION, INCLUDING AREAS WHERE HEADER CURB IS REMOVED.
11. ALL COST OF SAW CUTTING TO ACHIEVE A STRAIGHT EDGE SHALL BE INCLUDED IN GRADING COMPLETE.
12. TIE IN LOCATIONS FOR PROPOSED SIDEWALK, GRANITE HEADER CURB, PAVEMENT STRIPING, AND WATER MAIN INSTALLATION ARE BASED ON APPROXIMATE FIELD MEASUREMENTS. THE CONTRACTOR SHALL FIELD VERIFY AND ADJUST AS NECESSARY.

SUPERELEVATION DESCRIPTIONS	
ME	= MATCH EXISTING
BNC	= BEGIN NORMAL CROWN
ENC	= END NORMAL CROWN

UTILITY GENERAL NOTES

UTILITY OWNER	SERVICE
SOUTHERN COMPANY GAS	GAS
AT&T DISTRIBUTION	TELECOMMUNICATION
COMCAST	TELECOMMUNICATION
DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT	WATER & SEWER
GEORGIA POWER DISTRIBUTION	POWER

NOTES:
UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. UTILITY LOCATION WAS PERFORMED BY COMBINATION OF SUBSURFACE UTILITY ENGINEERING (SUE) AND UTILITY OWNER MARK-UPS. THE THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION.
CONTRACTOR/INSTALLER SHALL CONTACT 811 PRIOR TO ANY CONSTRUCTION.



**Know what's below.
Call before you dig.**



H&L Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD • BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770) 424-1668

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		GENERAL NOTES	
		WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:		DRAWING No.
BACKCHECKED:	DATE:		04-0001
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SIGNING GENERAL NOTES

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE CITY OF BROOKHAVEN.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. IF SIDEWALK IS PROPOSED OR EXISTING, THE SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE SIDEWALK.
- 4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMP SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. WHEN GUARDRAIL IS PRESENT OR BEING PROPOSED, SIGNS SHALL BE POSTED AN UNSTIPULATED DISTANCE BEHIND GUARDRAIL.
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
16. THE CONTRACTOR WILL BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.
17. WHEN SURFACE IS ASPHALTIC CEMENT CONCRETE, STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR THERMOPLASTIC STRIPING.
18. WHEN SURFACE IS PORTLAND CEMENT CONCRETE, STRIPING (WHITE AND YELLOW) AND ARROW MARKINGS SHALL BE APPLIED USING GDOT STANDARDS FOR PREFORMED CONTRAST STRIPING.
19. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS OTHERWISE SPECIFIED BY THE CITY OF BROOKHAVEN TRAFFIC ENGINEER.
20. CONTACT THE CITY OF BROOKHAVEN TRAFFIC ENGINEER (404-637-0540) ONE WEEK PRIOR TO COMMENCEMENT OF STRIPING WORK.

08/11/18
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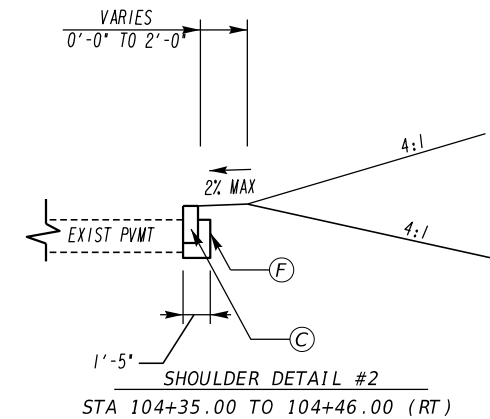
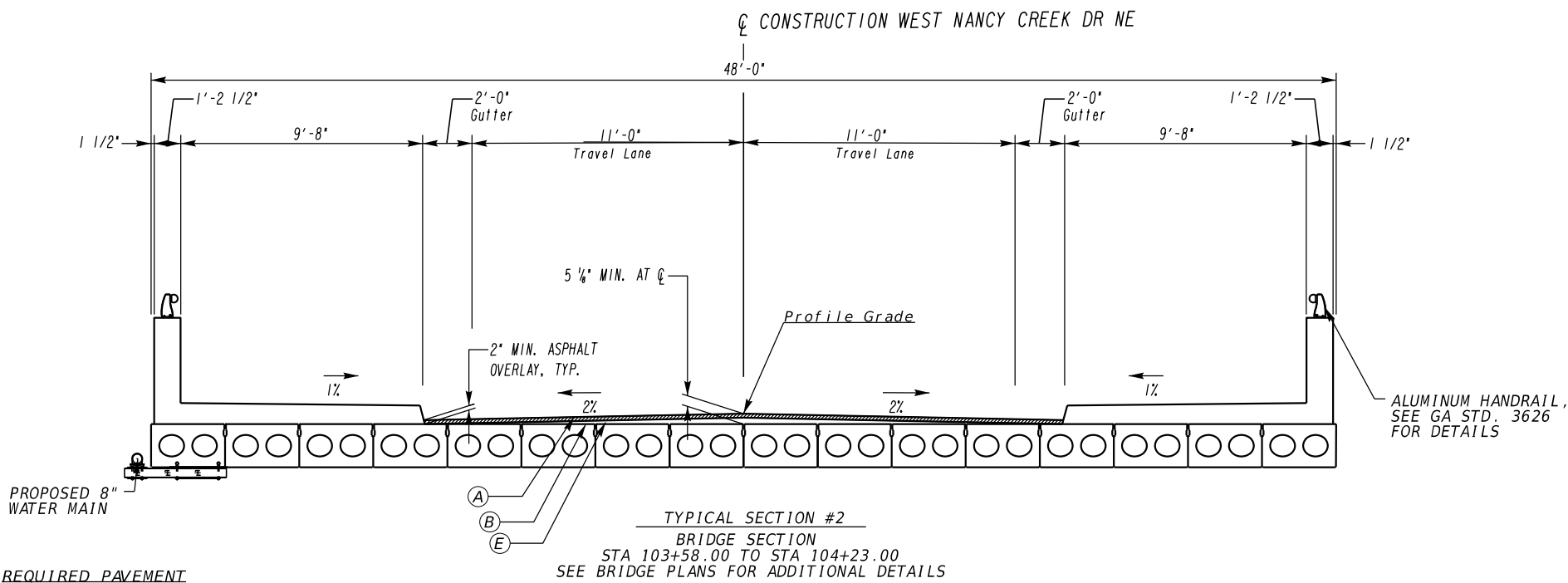
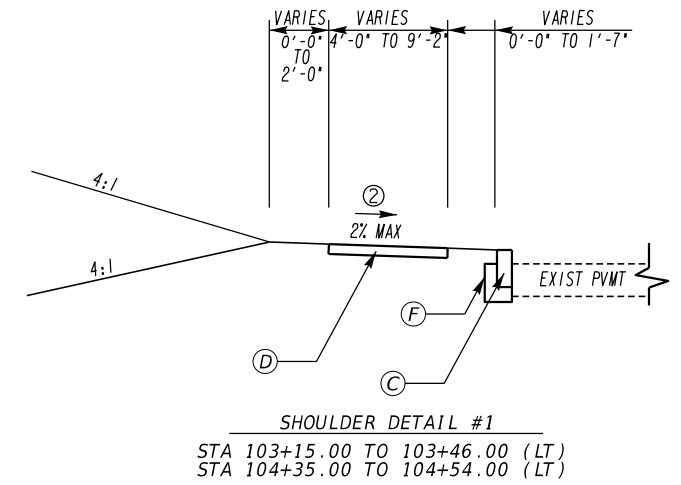
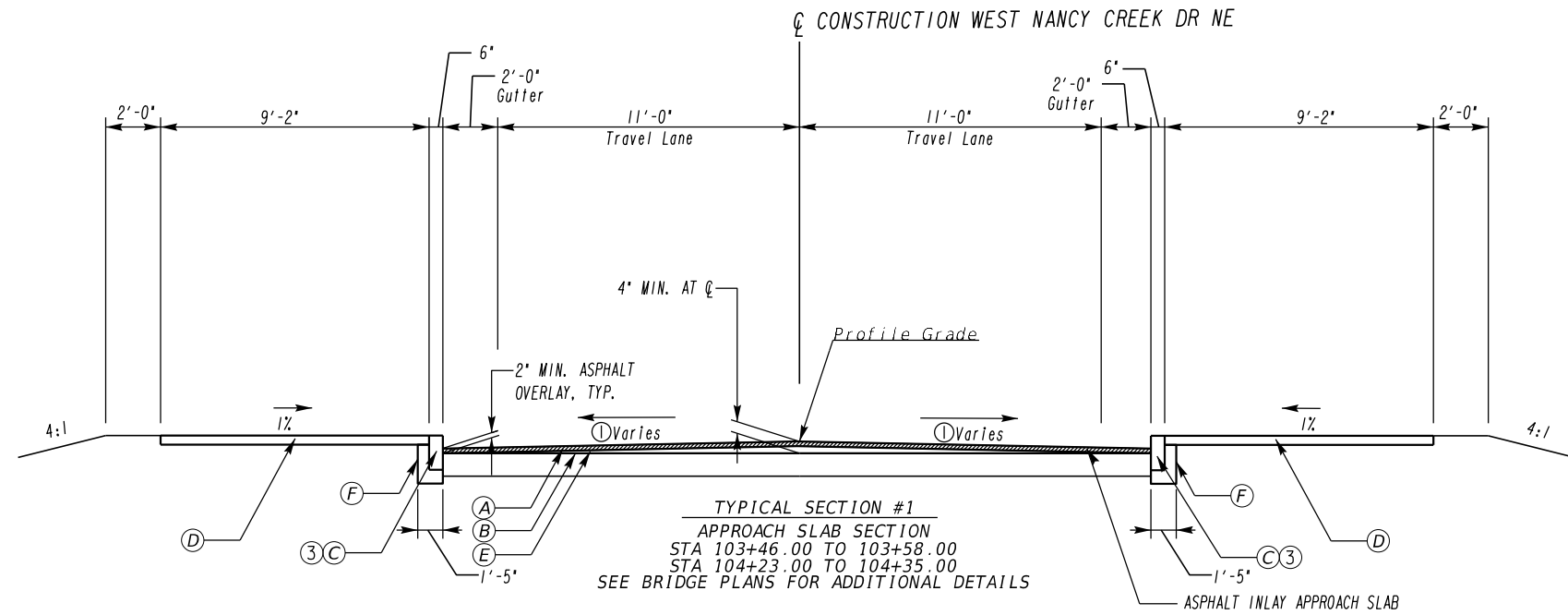


Brookhaven
GEORGIA



Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD • BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770) 424-1668

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		GENERAL NOTES	
		WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:		DRAWING No.
BACKCHECKED:	DATE:		04-0002
CORRECTED:	DATE:		
VERIFIED:	DATE:		



REQUIRED PAVEMENT

- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY INCL BITUM MATL & H LIME (220 LBS/SY)
- (B) BITUMINOUS TACK COAT
- (C) 6" GRANITE CURB (SEE DRAWING NO. 05-0002)
- (D) CONC SIDEWALK, 4 IN
- (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- (F) GR AGGR BASE CRS, INCL MATL

NOTE:

- (1) SEE ROADWAY PLANS FOR CROSS SLOPE TRANSITIONS.
- (2) SIDEWALK SHALL HAVE A MINIMUM TRANSITION LENGTH OF 5 FT FOR EACH 1 PERCENT CHANGE IN CROSS SLOPE.
- (3) SEE ROADWAY PLANS FOR LOCATION OF GRANITE HEADER CURB AT SPILLWAYS.

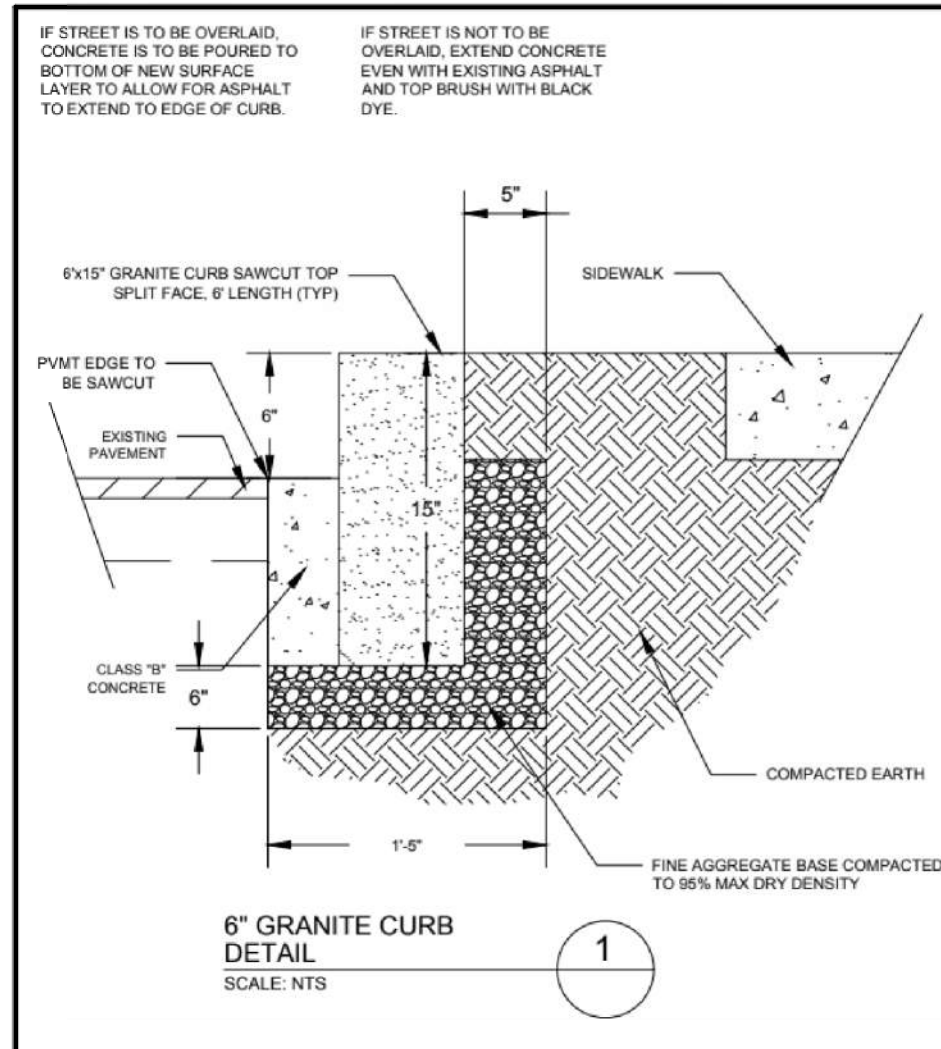


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N.T.S.

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		TYPICAL SECTIONS WEST NANCY CREEK DRIVE BRIDGE REPLACMENT	
		CHECKED: _____	DATE: _____
		BACKCHECKED: _____	DATE: _____
		CORRECTED: _____	DATE: _____
		VERIFIED: _____	DATE: _____

DRAWING No.
05-0001



CITY OF BROOKHAVEN
PUBLIC WORKS DEPARTMENT
GRANITE CURB DETAIL

APRIL 2018, REVISED JUNE 3, 2019

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REVISION DATES			CITY OF BROOKHAVEN PUBLIC WORKS		
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			CHECKED:	DATE:	DRAWING No. 05-0002
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			VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

ROADWAY

PAVEMENT SURFACE QUANTITIES		
ITEMS	UNIT	AMOUNT
GR AGGR BASE CRS, INCL MATL	TN	4
RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	68
RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	29
TACK COAT	GL	9
REINF CONC APPROACH SLAB	SY	70

TRAFFIC CONTROL		
TOTAL	1	LS

GRADING COMPLETE		
TOTAL	1	LS

STRAIGHT GRANITE CURB, 5 IN X 16 IN, TP A		
TOTAL	61	LF

GAB UNDERNEATH GRANITE CURB IS QUANTIFIED IN PVMT TOTALS ABOVE

CONC SIDEWALK, 4 IN		
TOTAL	75	SY

BARRIER FENCE (ORANGE), 4 FT		
TOTAL	255	LF

ORNAMENTAL FENCE		
TOTAL	70	LF

EROSION

CONSTRUCT AND REMOVE CONSTRUCTION EXITS	
TOTAL	1 EA

MAINTENANCE OF TEMPORARY SILT FENCE, TP C	
TOTAL	312 LF

MAINTENANCE OF CONSTRUCTION EXIT	
TOTAL	1 EA

MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA (PER EACH)	
TOTAL	1 EA

TEMPORARY SILT FENCE, TYPE C	
TOTAL	624 LF

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	
TOTAL	4 EA

MAINTENANCE OF INLET SEDIMENT TRAP	
TOTAL	4 EA

DRAINAGE

RIP RAP QUANTITIES			
STN DUMPED RIP RAP, TP 3, 18 IN			
LOCATION	STATION	SIDE	AREA (SY)
WEST NANCY CRK DR	103+67	LT & RT	41
WEST NANCY CRK DR	104+15	LT & RT	42
TOTAL:			83
PLASTIC FILTER FABRIC			AREA (SY)
TOTAL:			83

CONC SPILLWAY, SPCL DES		
TOTAL	4	EA

GRASSING

GRASSING			AGRICULTURAL LIME (TN)	FERTILIZER MIXED GRADE(TN)	FERTILIZER NITROGEN CONTENT (LBS)	MULCH (TN)
	UNIT	QUANTITY				
SOD	SY	4840.00	3	0.20	50	8
TEMPORARY GRASSING	AC	0.50	-	0.30	-	7
TOTALS:			3	0.5	50	15



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		SUMMARY QUANTITIES WEST NANCY CREEK DRIVE BRIDGE REPLACMENT			
CHECKED:	DATE:	CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	BACKCHECKED:	DATE:	06-0001	
CORRECTED:	DATE:	CORRECTED:	DATE:		
VERIFIED:	DATE:	VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

PAVEMENT MARKING

ITEM	UNIT	QUANTITY
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	278
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	278
RAISED PVMT MARKERS TP 1	EA	8

WATER RELOCATION

WATER MAIN, 8 IN	
TOTAL	140 LF
AIR RELEASE VALVE ASSEMBLY	
TOTAL	1 EA
ABANDON EXIST WATER MAIN - FILL & CAP	
TOTAL	57 LF
MOBILIZATION/DEMObILIZATION (5%)	
TOTAL	1 LS

SIGNING

SIGN SCHEDULE					HIGHWAY SIGNS MTL/REFL SHEETING	GALVANIZED STEEL POSTS, TYPE 9		
ROAD NAME	STATION	SIGN CODE	SIZE		TP1/TP11 (SF)	LENGTH (LF)	NUMBER OF POSTS	TOTAL POST PER SIGN (LF)
			WIDTH (IN)	HEIGHT (IN)				
WEST NANCY CREEK DRIVE NE	102+58.00	W8-13	36	36	9.00	14.24	1	14.24
WEST NANCY CREEK DRIVE NE	105+23.00	W8-13	36	36	9.00	14.24	1	14.24
TOTALS:					18.00	-	-	28.49
ROUNDED TOTALS:					18.00	-	-	29.00

BRIDGE

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">SUPERSTR CONCRETE, CL D, BR NO - 1 (52)</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">TOTAL</td> <td style="text-align: right;">1 LS</td> </tr> </tbody> </table>	SUPERSTR CONCRETE, CL D, BR NO - 1 (52)		TOTAL	1 LS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">SUPERSTR REINF STEEL, BR NO - 1 (4358)</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">TOTAL</td> <td style="text-align: right;">1 LS</td> </tr> </tbody> </table>	SUPERSTR REINF STEEL, BR NO - 1 (4358)		TOTAL	1 LS
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CLASS AA CONCRETE									
TOTAL	49 CY								
MICROPILE 9.625 IN									
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STR STEEL, BR NO - 1 (875)									
TOTAL	1 LS								
LOAD TEST MICROPILE 9.625 IN									
TOTAL	2 EA								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">PSC BEAMS, SPCL DESIGN, BR NO - 1</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">TOTAL</td> <td style="text-align: right;">1040 LF</td> </tr> </tbody> </table>	PSC BEAMS, SPCL DESIGN, BR NO - 1		TOTAL	1040 LF	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">PROOF TEST MICROPILE 9.625 IN</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">TOTAL</td> <td style="text-align: right;">2 EA</td> </tr> </tbody> </table>	PROOF TEST MICROPILE 9.625 IN		TOTAL	2 EA
PSC BEAMS, SPCL DESIGN, BR NO - 1									
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TOTAL	10730 LB								
ALUM HANDRAIL, STD 3626									
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TOTAL	330 SY								

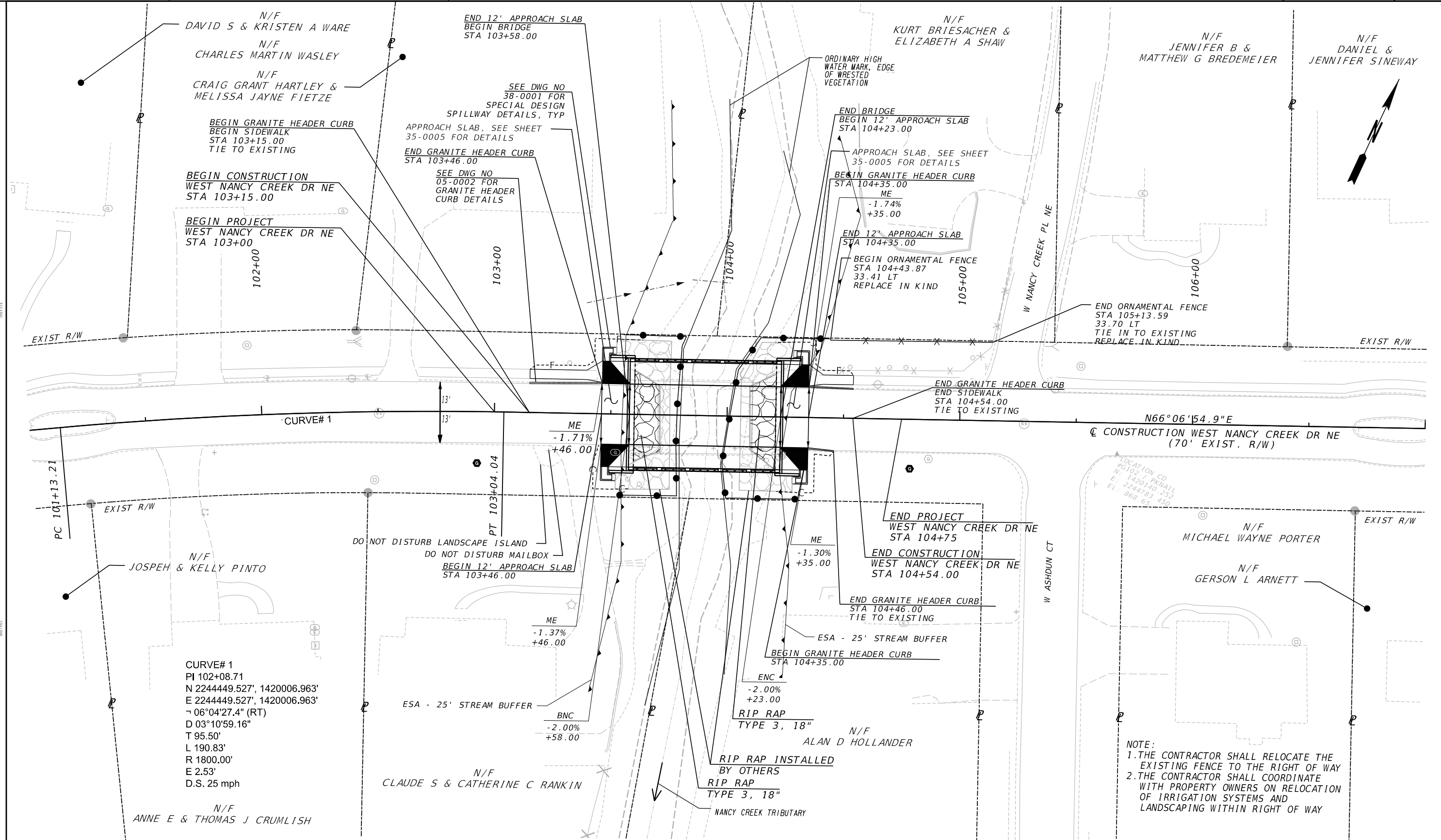
REVISION DATES	CITY OF BROOKHAVEN PUBLIC WORKS			
	SUMMARY QUANTITIES			
	WEST NANCY CREEK DRIVE			
	BRIDGE REPLACEMENT			
	CHECKED:	DATE:		DRAWING No.
	BACKCHECKED:	DATE:		06-0002
	CORRECTED:	DATE:		
	VERIFIED:	DATE:		



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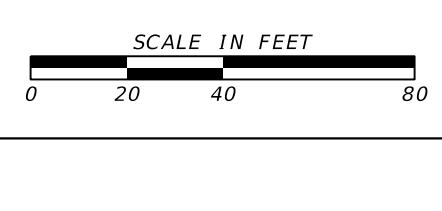
NOTE:
 1. THE CONTRACTOR SHALL RELOCATE THE EXISTING FENCE TO THE RIGHT OF WAY
 2. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS ON RELOCATION OF IRRIGATION SYSTEMS AND LANDSCAPING WITHIN RIGHT OF WAY

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

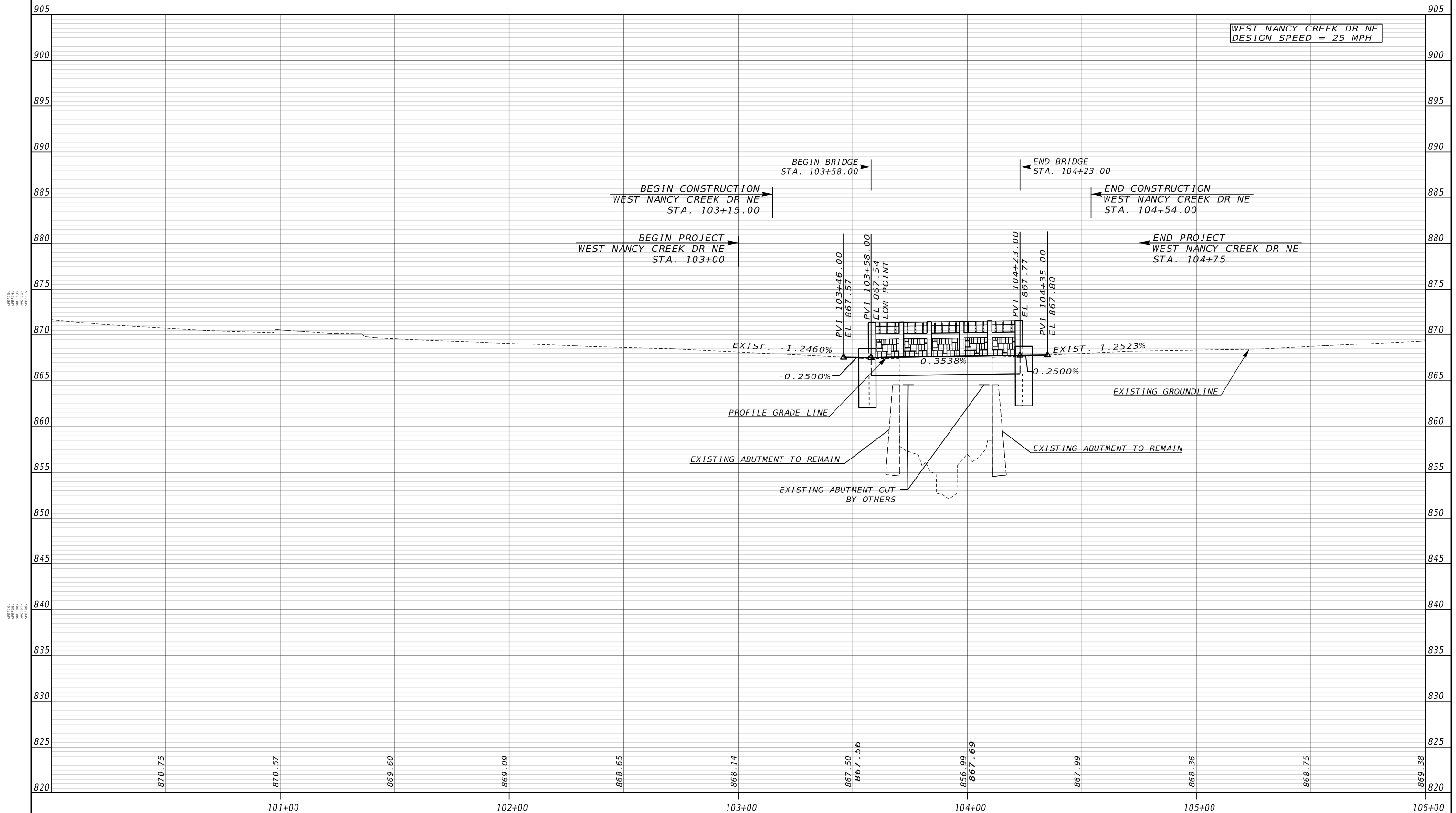
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END LIMIT OF ACCESS.....ELA	-----o-----
EXISTING LIMIT OF ACCESS	-----o-----
REQ'D LIMIT OF ACCESS	-----o-----
EXISTING LIMIT OF ACCESS & R/W	-----o-----
REQ'D LIMIT OF ACCESS & R/W	-----o-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA	-----o-----

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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
CONSTRUCTION PLAN			
WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	13-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

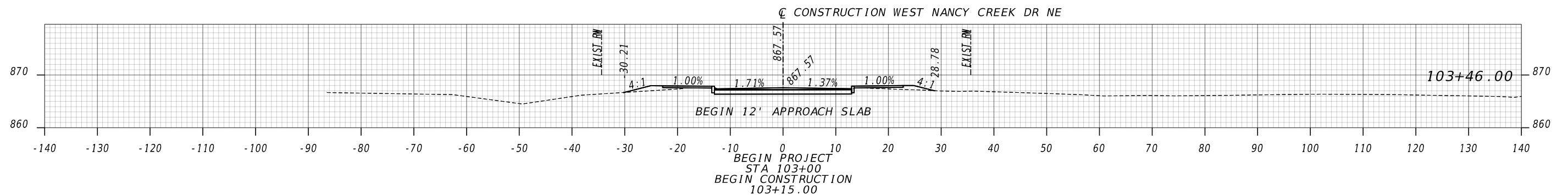
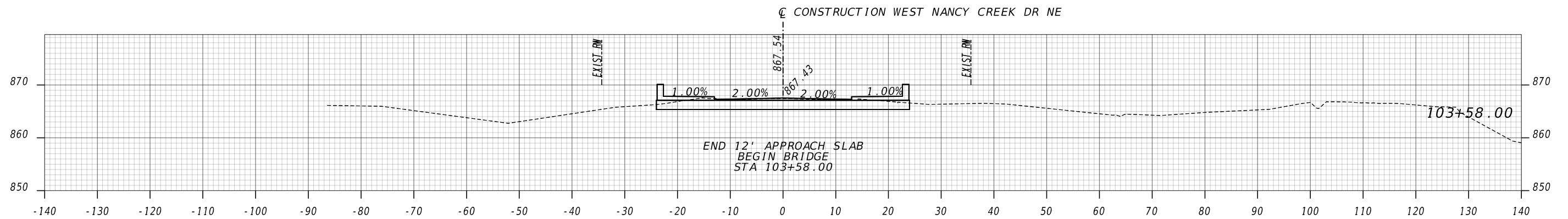
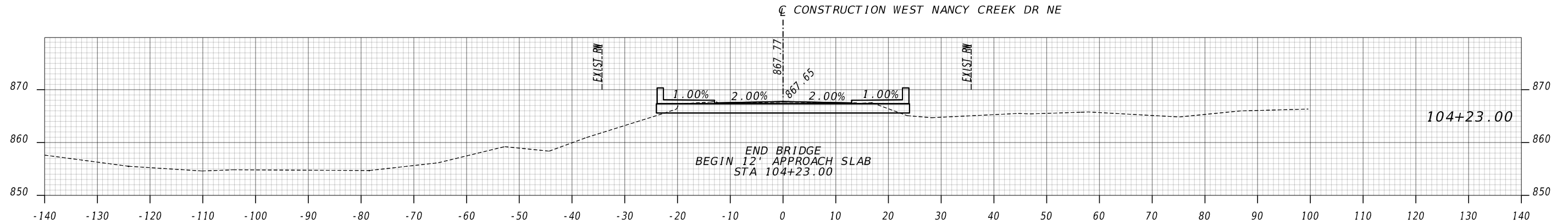
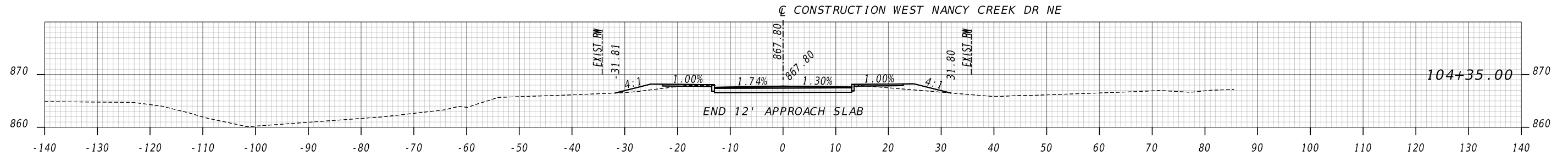


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HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		MAINLINE PROFILE WEST NANCY CREEK DRIVE BRIDGE REPLACMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	15-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

END PROJECT
STA 104+75
END CONSTRUCTION
STA 104+54



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HORIZONTAL: 1" = 20'
VERTICAL: 1" = 20'

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		EARTHWORK CROSS SECTIONS	
		WEST NANCY CREEK DRIVE	
		BRIDGE REPLACMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD				ELECTRIC
				ELECTRIC/TELECOMMUNICATIONS
				ELECTRIC/CABLE TV
				ELECTRIC/TELECOMMUNICATIONS/CABLE TV
UNDERGROUND				GUY WIRE
				TELECOMMUNICATIONS
				TELECOMMUNICATIONS/CABLE TV
				CABLE TV

UNDERGROUND				ELECTRIC
				TELECOMMUNICATIONS
				CABLE TV
				WATER
				WATER FOR LABELED PIPE SIZES
				NON-POTABLE WATER
				NON-POTABLE WATER FOR LABELED PIPE SIZES
				STEAM
				STEAM FOR LABELED PIPE SIZES
				SANITARY SEWER WITH FLOW DIRECTION
				SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
				SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
				GAS
			GAS FOR LABELED PIPE SIZES	
			PETROLEUM	
			PETROLEUM FOR LABELED PIPE SIZES	

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE				FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
			LIGHT POLE				BACKFLOW PREVENTER
			GUY ANCHOR				PRESSURE INDICATOR VALVE
			MARKER				AIR RELEASE VALVE
			SPLICE BOX				WELL
			CABINET				WATER VAULT
			VENT				WATER VALVE MARKER
			ELECTRIC MANHOLE				STAND PIPE
			HAND HOLE				CLEANOUT
			TRANSFORMER				SANITARY SEWER MANHOLE
			ELECTRIC METER				AIR RELEASE VALVE
			ELECTRIC BOX				GREASE TRAP
			TELECOMMUNICATIONS MANHOLE				SANITARY SEWER FORCE MAIN VALVE
			TELECOMMUNICATIONS PEDESTAL				GAS VALVE
			SUBSCRIBER LOOP CARRIER (aka "SLICK")				GAS METER
			PHONE BOOTH				GAS MANHOLE
			CABLE TV PEDESTAL				GAS PRESSURE REGULATOR
			CABLE TV MANHOLE				GAS VAULT
			WATER VALVE				GAS TEST STATION
			WATER METER				PETROLEUM VALVE
			WATER MANHOLE				

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
EXISTING LIMIT OF ACCESS	
REQ'D LIMIT OF ACCESS	
EXISTING LIMIT OF ACCESS & R/W	
REQ'D LIMIT OF ACCESS & R/W	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA	



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REVISION DATES	

UTILITY LEGEND

CITY OF BROOKHAVEN PUBLIC WORKS

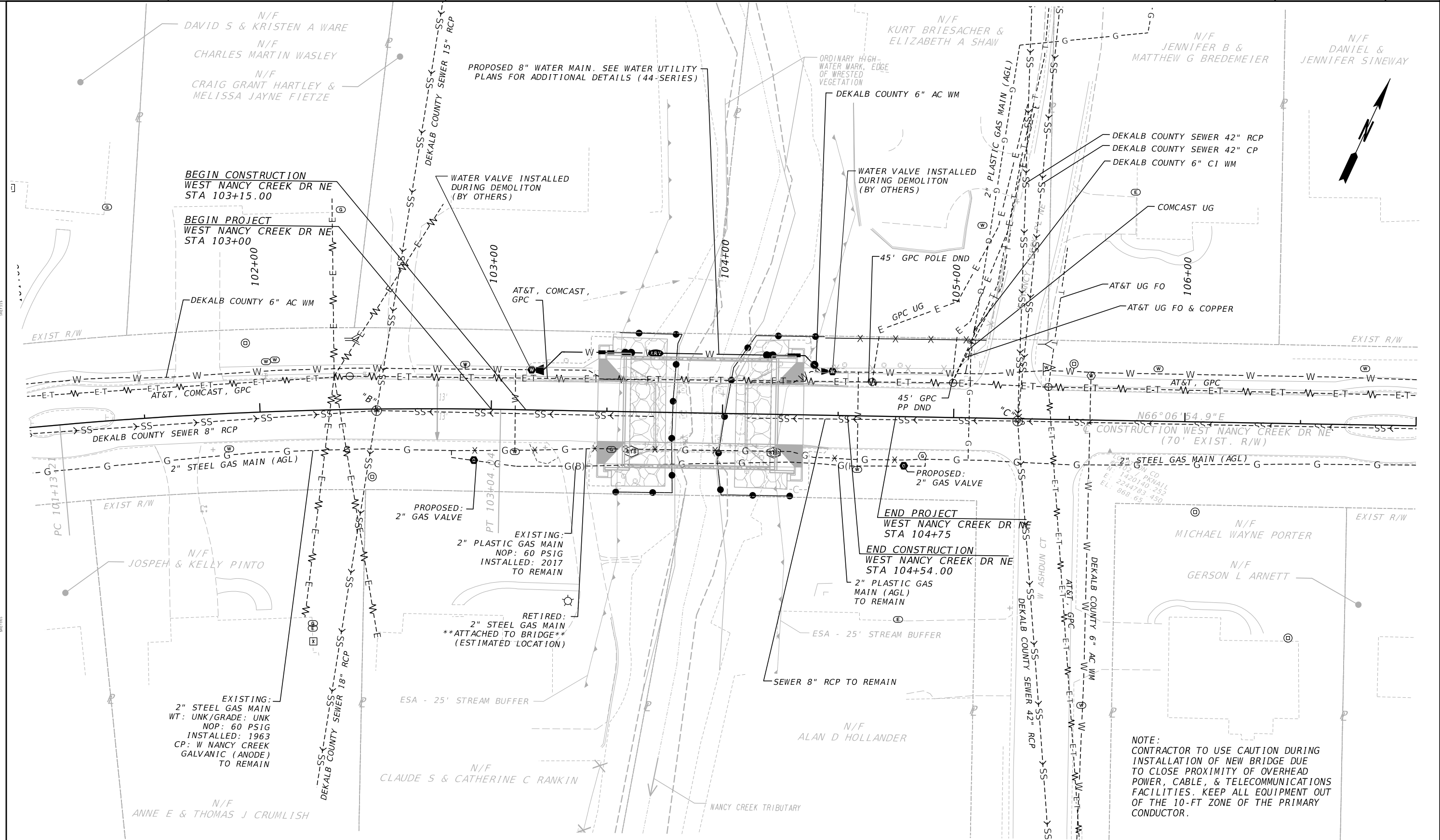
UTILITY PLANS

WEST NANCY CREEK DRIVE
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0000
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Know what's below.
Call before you dig.



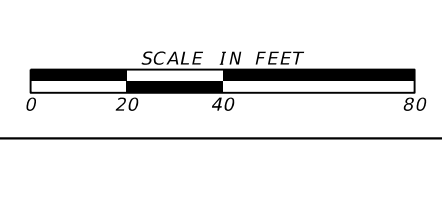
NOTE:
CONTRACTOR TO USE CAUTION DURING
INSTALLATION OF NEW BRIDGE DUE
TO CLOSE PROXIMITY OF OVERHEAD
POWER, CABLE, & TELECOMMUNICATIONS
FACILITIES. KEEP ALL EQUIPMENT OUT
OF THE 10-FT ZONE OF THE PRIMARY
CONDUCTOR.

PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----G-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	//////
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	XXXXX

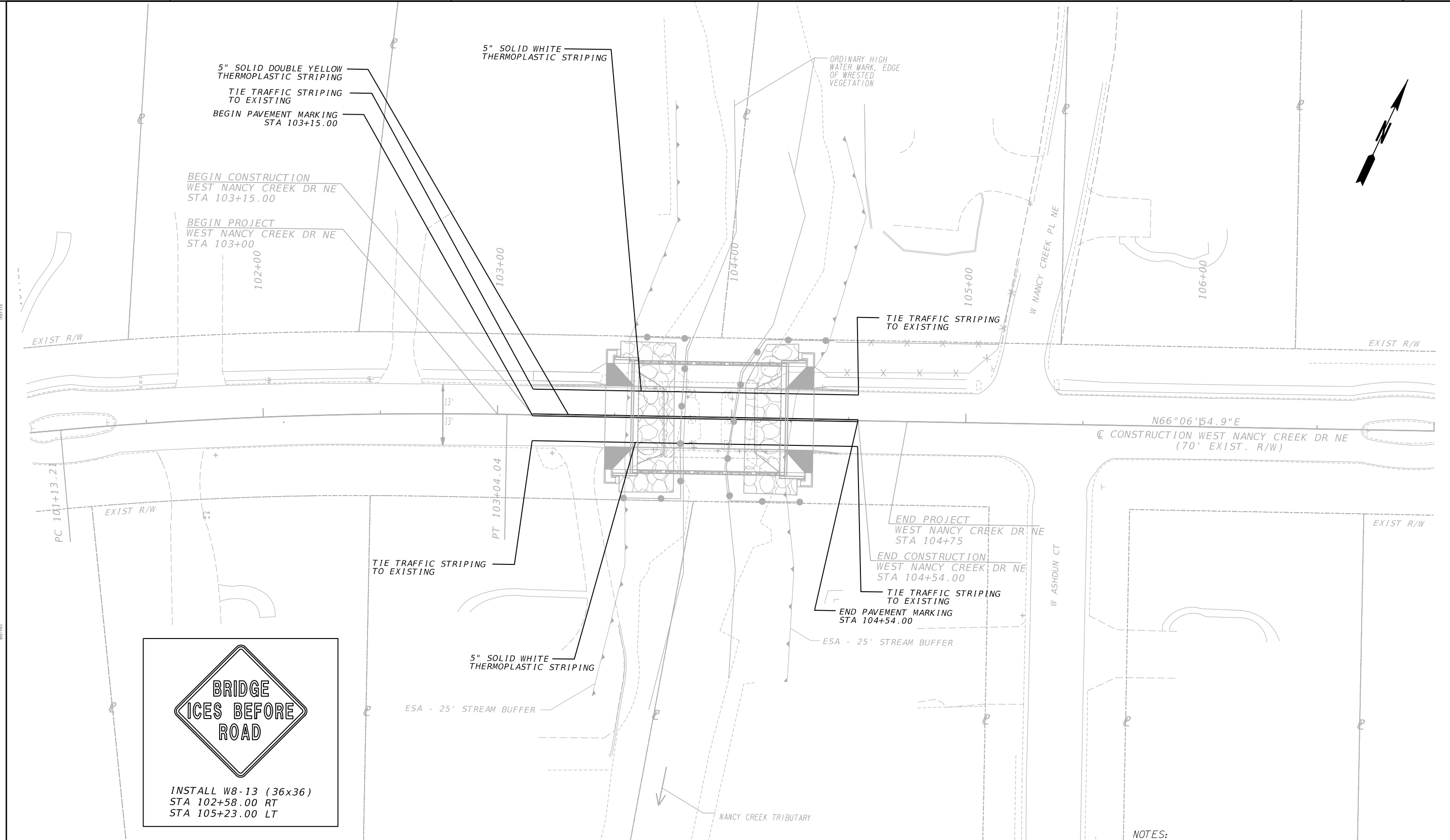
BEGIN LIMIT OF ACCESS.....BLA	-----
END LIMIT OF ACCESS.....ELA	-----
EXISTING LIMIT OF ACCESS	-----
REQ'D LIMIT OF ACCESS	-----
EXISTING LIMIT OF ACCESS & R/W	-----
REQ'D LIMIT OF ACCESS & R/W	-----
ORANGE BARRIER FENCE	●●●●
ESA - ENV. SENSITIVE AREA	-----



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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		UTILITY PLANS	
		WEST NANCY CREEK DRIVE	
		BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





**BRIDGE
ICES BEFORE
ROAD**

INSTALL W8-13 (36x36)
STA 102+58.00 RT
STA 105+23.00 LT

NOTES:
1. RPM'S SHALL BE PLACED IN ACCORDANCE TO GA DETAIL T-15A

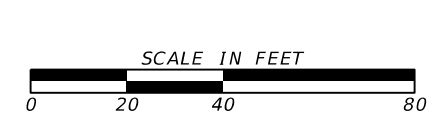
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REQUIRED R/W LINE	-----#-----	END LIMIT OF ACCESS.....ELA	-----o--o--o-----
CONSTRUCTION LIMITS	---C---F---	EXISTING LIMIT OF ACCESS	-----o--o--o-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	//////	REQ'D LIMIT OF ACCESS	-----o--o--o-----
EASEMENT FOR CONSTR OF SLOPES	//////	EXISTING LIMIT OF ACCESS & R/W	-----#-----
EASEMENT FOR CONSTR OF DRIVES	XXXX	REQ'D LIMIT OF ACCESS & R/W	-----#-----
		ORANGE BARRIER FENCE	●●
		ESA - ENV. SENSITIVE AREA	▼▼



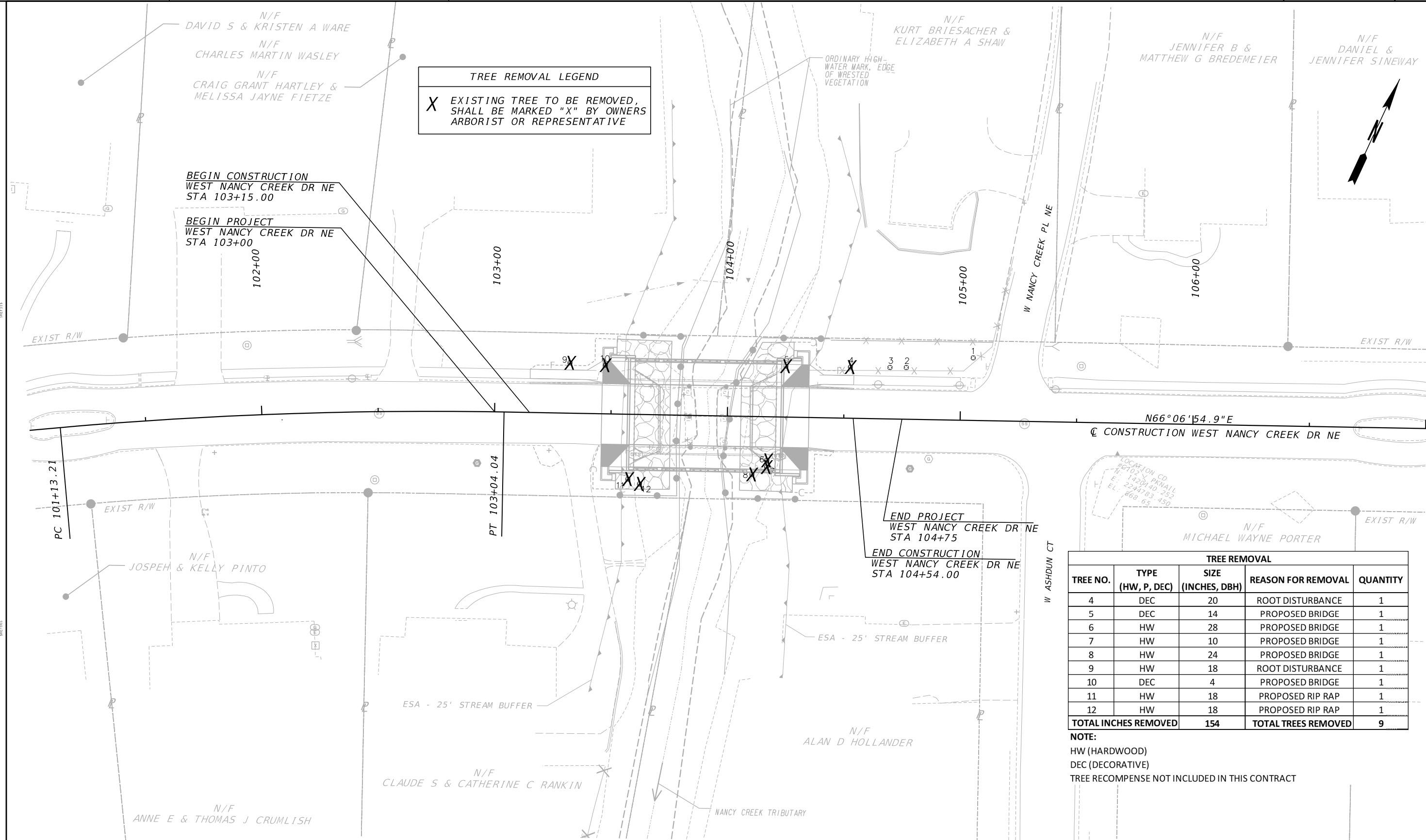
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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		SIGNING AND MARKING PLANS	
		WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



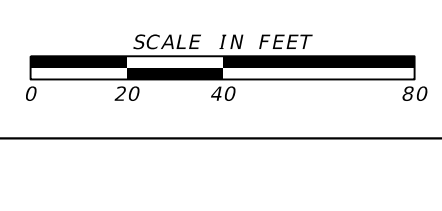
TREE REMOVAL				
TREE NO.	TYPE (HW, P, DEC)	SIZE (INCHES, DBH)	REASON FOR REMOVAL	QUANTITY
4	DEC	20	ROOT DISTURBANCE	1
5	DEC	14	PROPOSED BRIDGE	1
6	HW	28	PROPOSED BRIDGE	1
7	HW	10	PROPOSED BRIDGE	1
8	HW	24	PROPOSED BRIDGE	1
9	HW	18	ROOT DISTURBANCE	1
10	DEC	4	PROPOSED BRIDGE	1
11	HW	18	PROPOSED RIP RAP	1
12	HW	18	PROPOSED RIP RAP	1
TOTAL INCHES REMOVED		154	TOTAL TREES REMOVED	9

NOTE:
HW (HARDWOOD)
DEC (DECORATIVE)
TREE RECOMPENSE NOT INCLUDED IN THIS CONTRACT

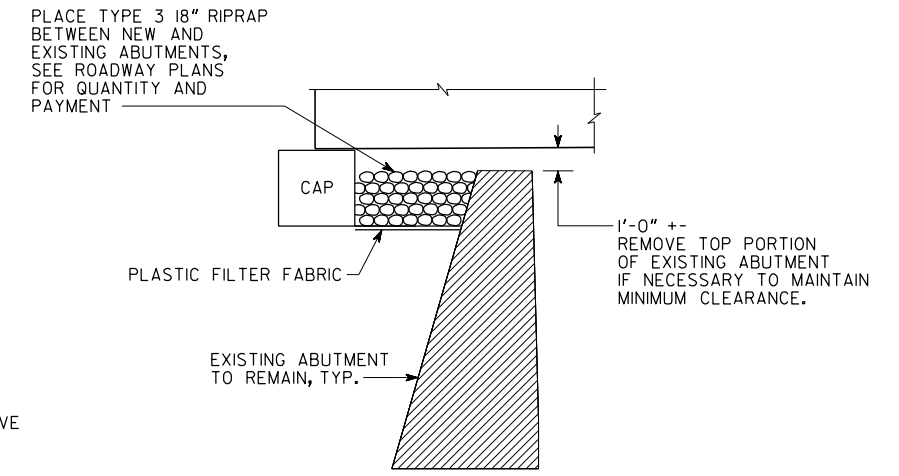
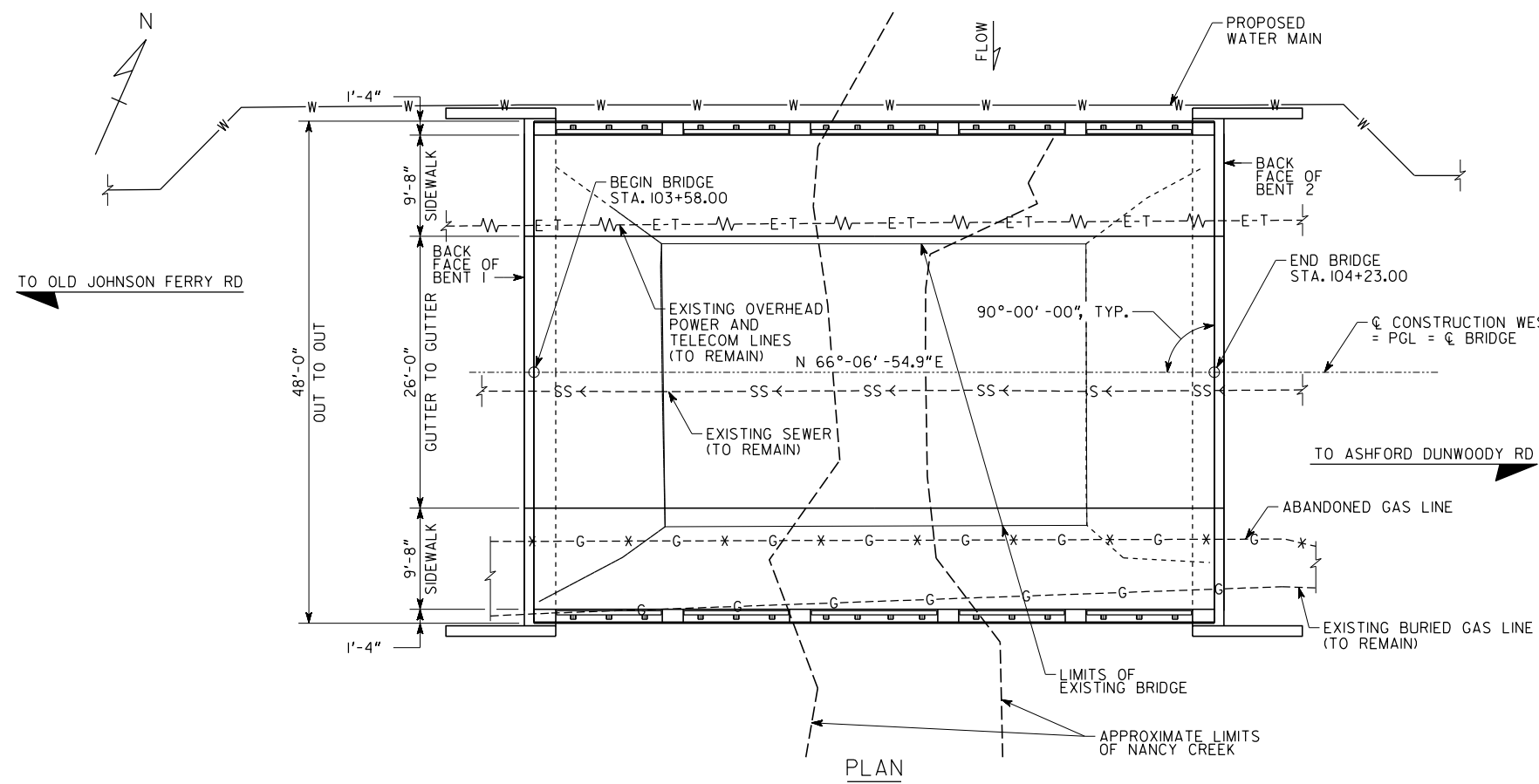
PROPERTY AND EXISTING R/W LINE	-----e-----	BEGIN LIMIT OF ACCESS.....BLA	-----o-----
REQUIRED R/W LINE	-----f-----	END LIMIT OF ACCESS.....ELA	-----o-----
CONSTRUCTION LIMITS	-----c-----	EXISTING LIMIT OF ACCESS	-----o-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	//////	EXISTING LIMIT OF ACCESS & R/W	-----h-----
EASEMENT FOR CONSTR OF SLOPES	//////	REQ'D LIMIT OF ACCESS & R/W	-----h-----
EASEMENT FOR CONSTR OF DRIVES	XXXX	ORANGE BARRIER FENCE	●-----●
		ESA - ENV. SENSITIVE AREA	-----v-----

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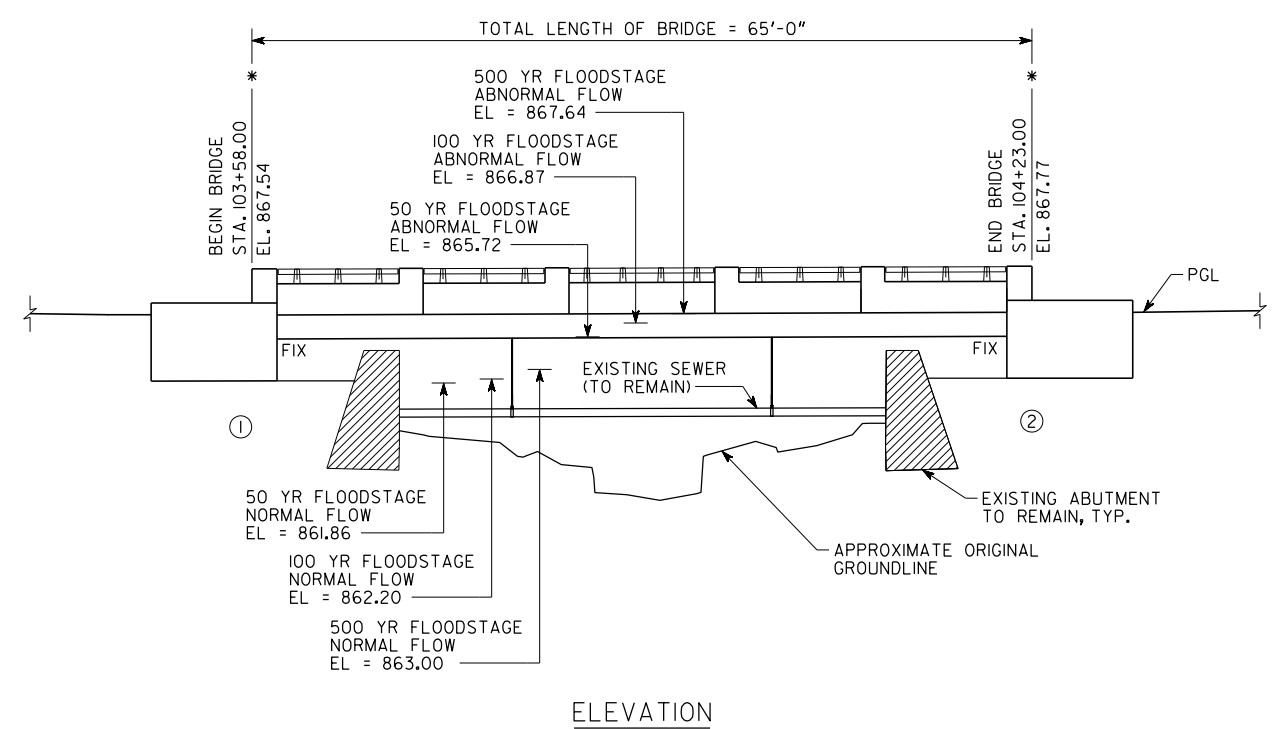
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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		TREE REMOVAL PLANS WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



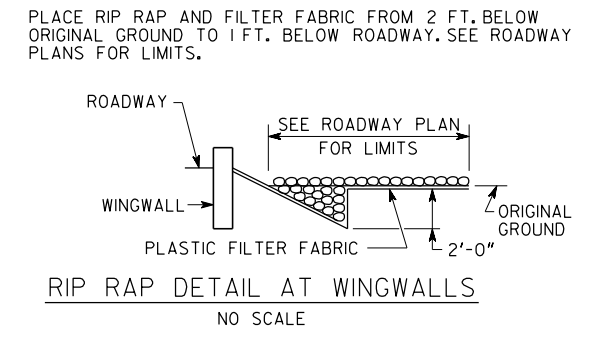
RIP RAP DETAIL BETWEEN NEW AND EXISTING ABUTMENTS
NO SCALE



ELEVATION

GRADE DATA
ALONG PROFILE GRADE LINE

PV STA. 103+46.00	PV STA. 103+58.00	PV STA. 104+23.00	PV STA. 104+35.00
PVI ELEV. 867.57	PVI ELEV. 867.54	PVI ELEV. 867.77	PVI ELEV. 867.80
-0.2500%	+0.3538%	+0.2500%	



RIP RAP DETAIL AT WINGWALLS
NO SCALE

- NOTES:
- * 1. STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE.
 - 2. ALL BENTS ARE PARALLEL TO BENT 1.
 - 3. END BENT PILES NOT SHOWN.



DRAWING NO.
35-0001
BRIDGE SHEET
1 OF 10

REVISIONS	DATE

BRIDGE NO. 1

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CITY OF BROOKHAVEN
PUBLIC WORKS

PLAN AND ELEVATION
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY

SSD2022.01

SCALE: 1/8" = 1'-0", UNLESS OTHERWISE NOTED DECEMBER 2022

DESIGNED BRW/GBL	CHECKED TBS/BKA	REVIEWED
DRAWN JHS/JEG	DESIGN GROUP	APPROVED

12/21/2022 3:44:01 PM USER: bwa/ker

BRIDGE CONSISTS OF

- 1 - 65'-0" 21 IN, PSC SLAB BEAM ----- SPECIAL DESIGN
- 2 - MICROPILE END BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)
- ONE PIPE ALUMINUM HANDRAIL ----- GA. STD. 3626

DRAINAGE DATA

DRAINAGE AREA ----- 3.09 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR NORMAL	2130 CFS	8.72 FPS	244.38 SQ FT	
100 YEAR NORMAL	2290 CFS	8.83 FPS	259.34 SQ FT	0.36 FT
500 YEAR NORMAL	2680 CFS	9.06 FPS	295.82 SQ FT	
50 YEAR ABNORMAL	2130 CFS	4.76 FPS	447.26 SQ FT	
100 YEAR ABNORMAL	2290 CFS	4.28 FPS	535.27 SQ FT	0.48 FT
500 YEAR ABNORMAL	2680 CFS	4.03 FPS	665.03 SQ FT	

TRAFFIC DATA

TRAFFIC ----- ADT = 4,300 (2018)

DESIGN SPEED ----- 25 MPH

TRUCKS ----- N/A

DIRECTIONAL ----- 50%

UTILITIES

8 INCH DIAMETER WATER MAIN ----- DEKALB CO. WATER WORKS

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2 INCH MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

WAITING PERIOD - NONE REQUIRED.

PILE LENGTHS - ERRATIC PILE LENGTHS CAN BE EXPECTED.

SMOOTH DOWEL BARS - PLACE DOWELS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

UTILITY HANGERS - FURNISH AND INSTALL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. PIPE ROLL SUPPORT ASSEMBLIES, KEEPER PLATES, AND ALL OTHER COMPONENTS OF HANGER SUPPORTS ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. INCLUDE THE COST IN THE PRICE BID FOR PAY ITEM 501-2000 "LUMP STR STEEL."

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY GDOT CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

BRIDGE REMOVAL - REMOVE ANY REMAINING PORTIONS OF EXISTING BRIDGE AS PER SUB-SECTION 540.3.05 OF THE GEORGIA DOT SPECIFICATIONS.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE CITY OF BROOKHAVEN.

JOINTS IN OVERLAY - WITHIN 24 HOURS AFTER OVERLAY IS PLACED MAKE A 1/2 INCH WIDE BY 3/4 INCH DEEP SAW CUT OVER EACH EXPANSION JOINT LOCATION AND SEAL WITH RUBBERIZED ASPHALT IN ACCORDANCE WITH SECTION 407 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE COST OF RUBBERIZED ASPHALT IN THE OVERALL BID SUBMITTED.

WATERPROOFING MEMBRANE - INSTALL APPROVED BRIDGE DECK WATERPROOFING MEMBRANE IN ACCORDANCE WITH SECTION 533 OF THE GEORGIA DOT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. TURN MEMBRANE 4 INCHES UP AT FACE OF EACH BARRIER AND EXTEND MEMBRANE 18 INCHES PAST BEGINNING AND END OF BRIDGE. SEE QPL-22 FOR APPROVED WATERPROOFING MATERIALS.

GROUT - FILL ALL SHEAR KEYS AND ANCHOR HOLES WITH 5,000 PSI 3 DAY STRENGTH GROUT AS PER SECTION 506 OF THE GEORGIA DOT SPECIFICATIONS. CURE GROUT A MINIMUM OF 5 DAYS BEFORE CASTING CONCRETE BARRIERS. IN LIEU OF MIXING MORTAR ON SITE, PRE-MIXED BAG MORTAR MEETING THE REQUIREMENTS IN SECTION 506 MAY BE USED. PREPACKAGED MATERIAL MUST BE AN APPROVED NON-SHRINK GROUT. INCLUDE COST OF GROUT IN THE PRICE BID FOR 'PSC BOX BEAMS.'

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF ELASTOMERIC BEARING PADS, WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

MICROPILE TESTING - PERFORM A PROOF TEST AND A LOAD TEST AT BENTS 1 AND 2 IN ACCORDANCE WITH SPECIAL PROVISION 999 - MICROPILE. THE MAXIMUM TENSION LOAD REQUIRED FOR THE LOAD TEST IS 760 KIPS.

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS D, $f'_c = 4,000$ PSI
 BARRIER ----- CLASS D, $f'_c = 4,000$ PSI
 PSC BEAMS ----- CLASS AAA, $f'_c = 6,000$ PSI
 PSC BEAM ALLOWABLE TENSION ----- 465 PSI
 SUBSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI

REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI

PRETENSIONING STRANDS: ----- $f'_s = 270,000$ PSI

MICROPILES: ----- $f_y = 80,000$ PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO - 1 (52)
500-3002	49	CY	CLASS AA CONCRETE
501-2000	LUMP	LS	STR STEEL, BR NO 1 (875)
507-9240	1040	LF	PSC BEAMS, SPCL DESIGN, BR NO - 1
511-1000	10730	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (4358)
999-7500	400	LF	MICROPILE 9.625 IN
999-7520	2	EA	PROOF TEST MICROPILE 9.625 IN
999-7540	2	EA	LOAD TEST MICROPILE 9.625 IN
516-1100	130	LF	ALUMINUM HANDRAIL, STD 3626
533-0010	330	SY	BRIDGE DECK WATERPROOFING MEMBRANE, METHOD A

BRIDGE NO. 1

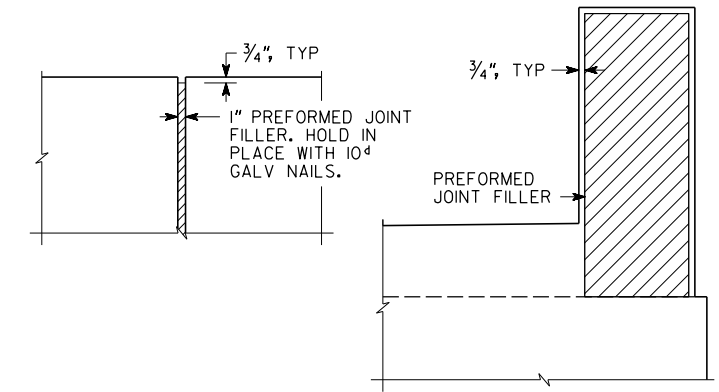
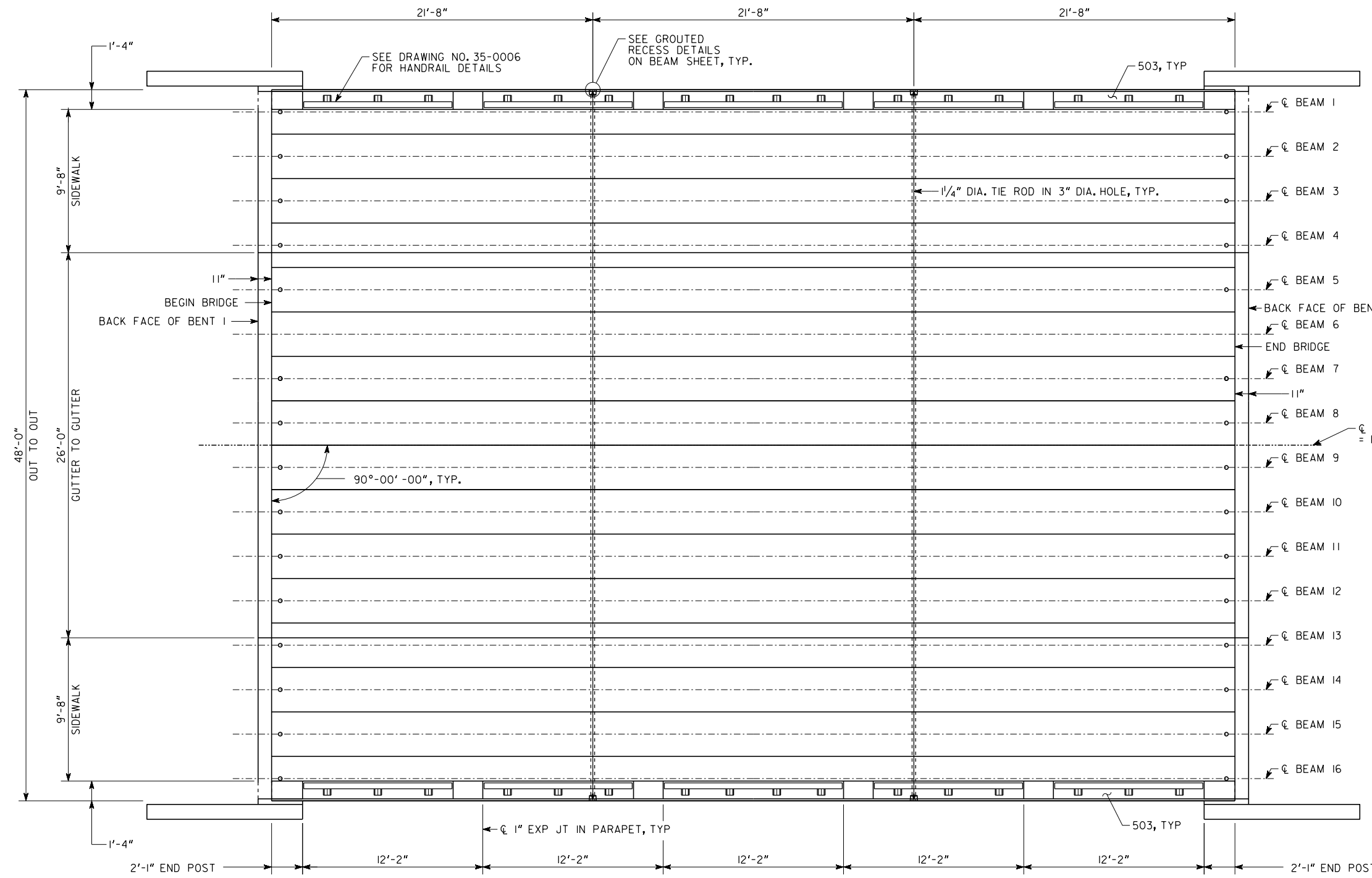


CITY OF BROOKHAVEN
PUBLIC WORKS

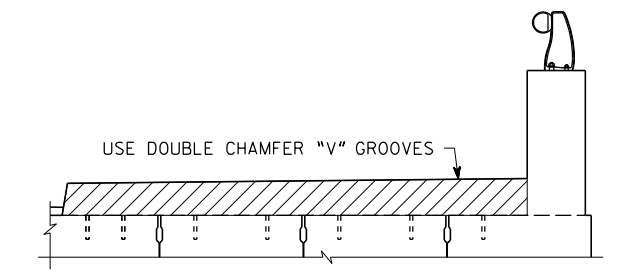
GENERAL NOTES
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY

SSD2022.01

DRAWING NO. 35-0002	BRW/GBL	TBS/BKA	
BRIDGE SHEET 2 OF 10	JHS/JEG		
DESIGNED	CHECKED	REVIEWED	
DRAWN	DESIGN GROUP	APPROVED	



ELEVATION SIDE ELEVATION
DETAIL OF 1" EXPANSION JOINT IN PARAPET
SCALE: 1/16" = 1'-0"



CONST JOINT DETAIL AT SIDEWALK AND PARAPET
SCALE: 1/8" = 1'-0"

PLAN

SUPERSTRUCTURE QUANTITIES	
ITEM	TOTAL
LUMP - CY SUPERSTR CONCRETE, CLASS D	52
LUMP - LB SUPERSTR REINF STEEL	4358

NOTE: ENDPOST CONCRETE AND BAR REINFORCING STEEL ARE INCLUDED IN QUANTITIES.

DATE	REVISIONS	BY

BRIDGE NO. 1

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INCORPORATED
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CITY OF BROOKHAVEN
PUBLIC WORKS

DECK PLAN
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY

SSD2022.01

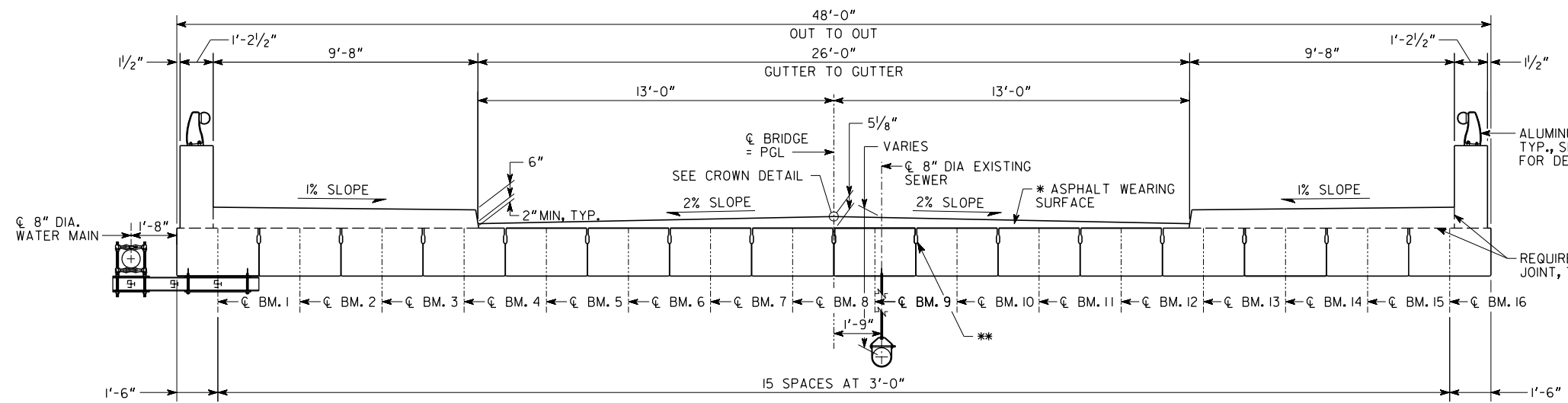
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DECEMBER 2022

DESIGNED	BRW/GBL	CHECKED	TBS/BKA	REVIEWED	
DRAWN	JHS/JEG	DESIGN GROUP		APPROVED	

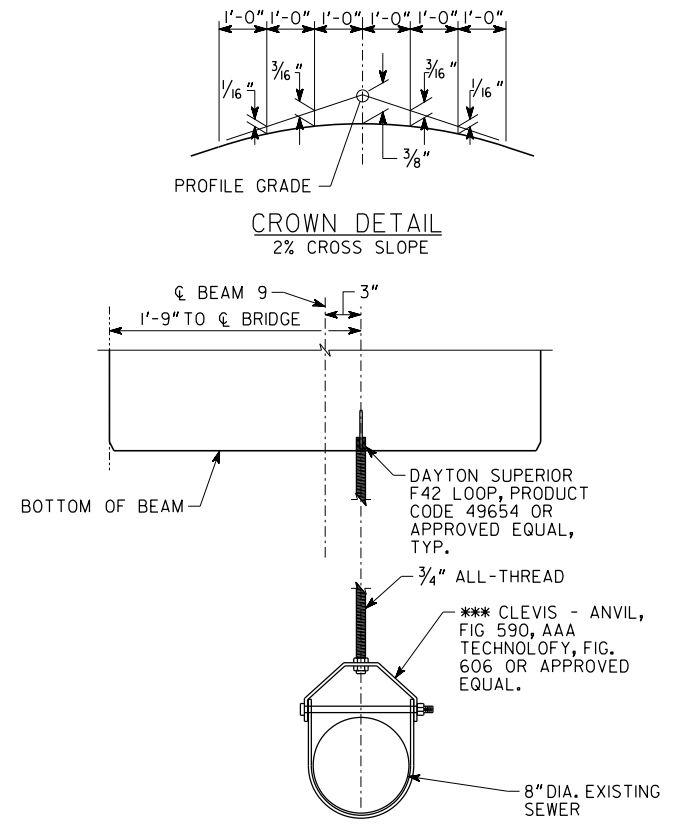
DRAWING NO.
35-0003
BRIDGE SHEET
3 OF 10

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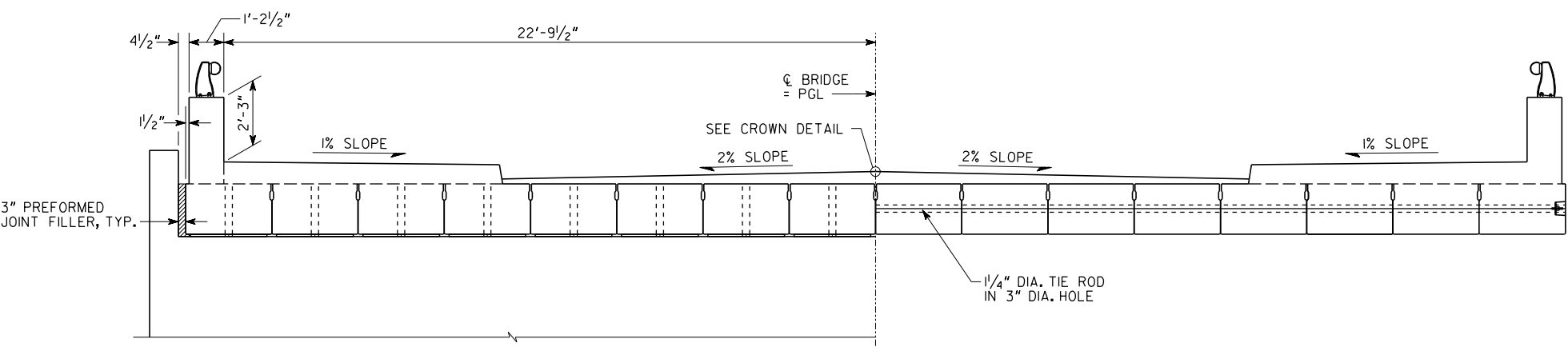
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DECK SECTION

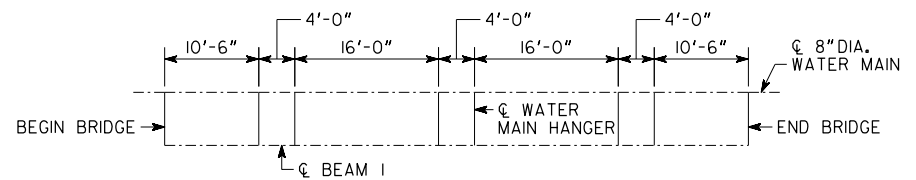


EXISTING SEWER HANGER DETAIL
SCALE: 1/2" = 1'-0"

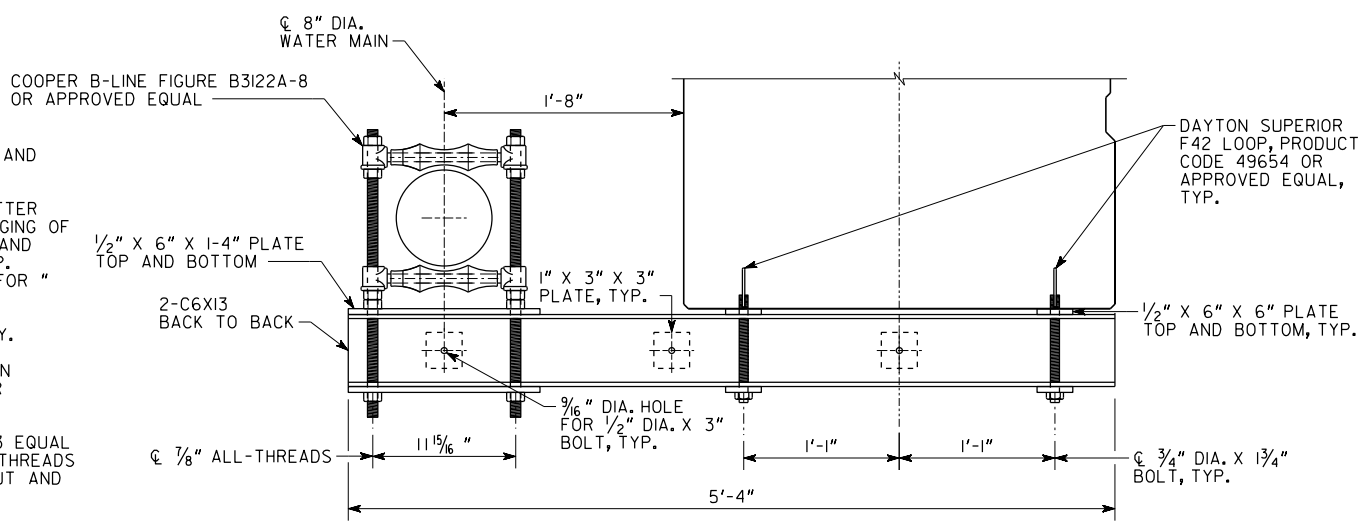


PARTIAL SECTION AT BEARING

PARTIAL SECTION AT TIE ROD




WATER MAIN HANGER LAYOUT
SCALE: 1/2" = 1'-0"



WATER MAIN HANGER DETAIL
SCALE: 1/2" = 1'-0"

- NOTES:**
- * 1. ASPHALT OVERLAY, SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.
 - ** 2. SHEAR KEYS TO BE FILLED WITH NON-SHRINK GROUT AFTER ALL ERECTION HAS BEEN COMPLETED AND AFTER SNUGGING OF NUTS OF TRANSVERSE TIE RODS. FILL ALL KEYS FULL AND CONTINUOUS AS PER STANDARD SPECIFICATION 506, TYP. INCLUDE COST OF MATERIALS AND WORK IN PRICE BID FOR "PSC SLAB BEAMS".
 - 3. SEE ROADWAY PLANS FOR SLOPE OF ASPHALT OVERLAY.
 - 4. WATER MAIN HANGERS SHALL BE PLACED AT 2 FEET ON EITHER SIDE OF A PIPE JOINT. SEE WATER MAIN HANGER LAYOUT FOR MORE DETAILS.
 - *** 5. EXISTING SEWER LINE HANGERS SHALL BE PLACED AT 3 EQUAL SPACES ALONG THE LENGTH OF BEAM. LUBRICATE THE THREADS AND APPLY 10 FT-LBS OF TORQUE TO THE BOTTOM NUT AND TIGHTEN THE TOP NUT.
 - 6. ALL METAL COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AND SHALL BE ASTM A709, GR36 (EXCEPT BOLTS SHALL BE A307).
 - 7. 8" DIA. WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL AFTER TIE RODS HAVE BEEN TENSIONED.
 - 8. CONTRACTOR SHALL COORDINATE WITH BEAM MANUFACTURER TO ENSURE FORMED HOLES ARE PROVIDED AND PROPERLY LOCATED.

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CITY OF BROOKHAVEN
PUBLIC WORKS

DECK SECTIONS
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY

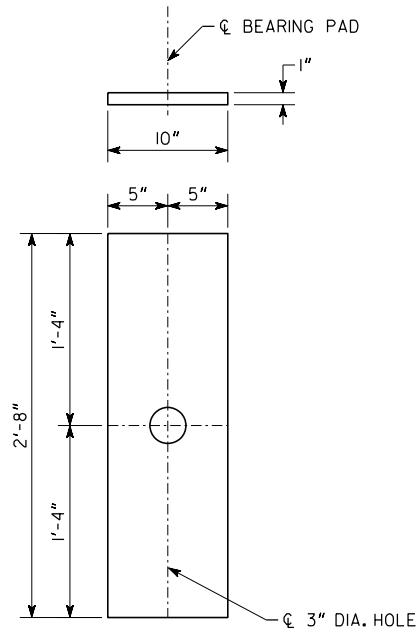
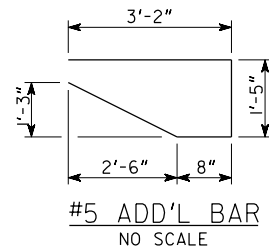
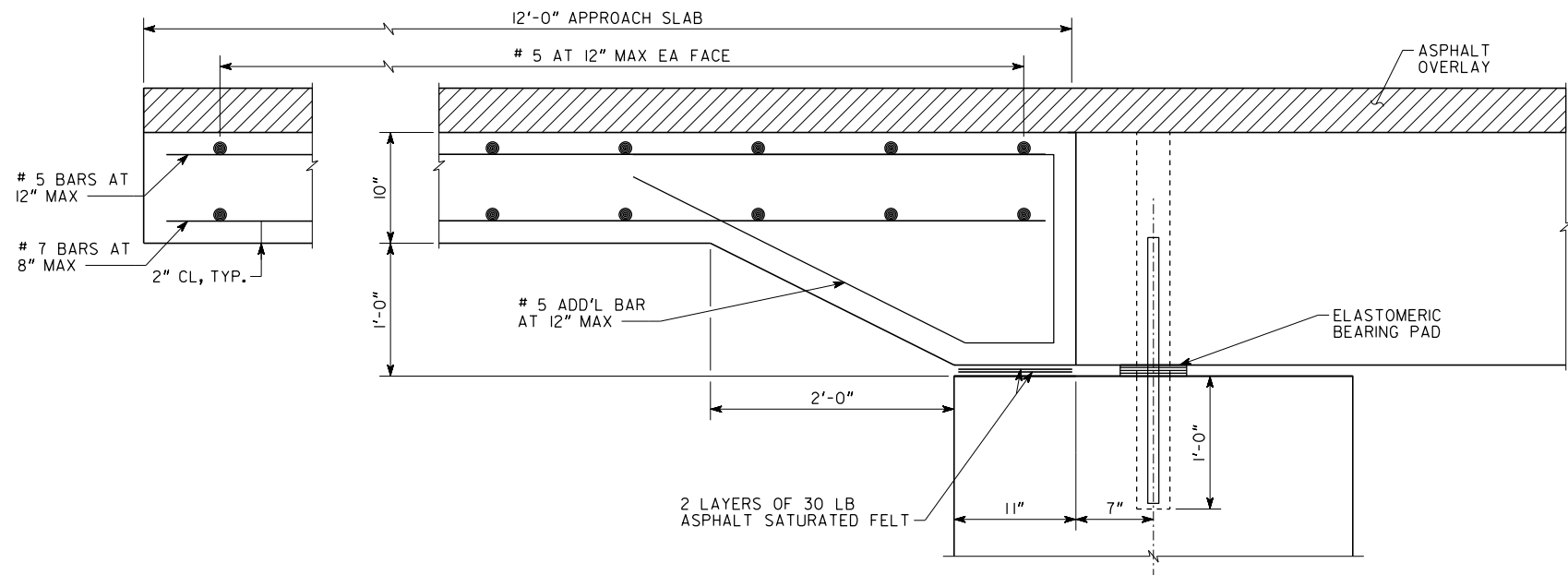
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SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NOTED DECEMBER 2022

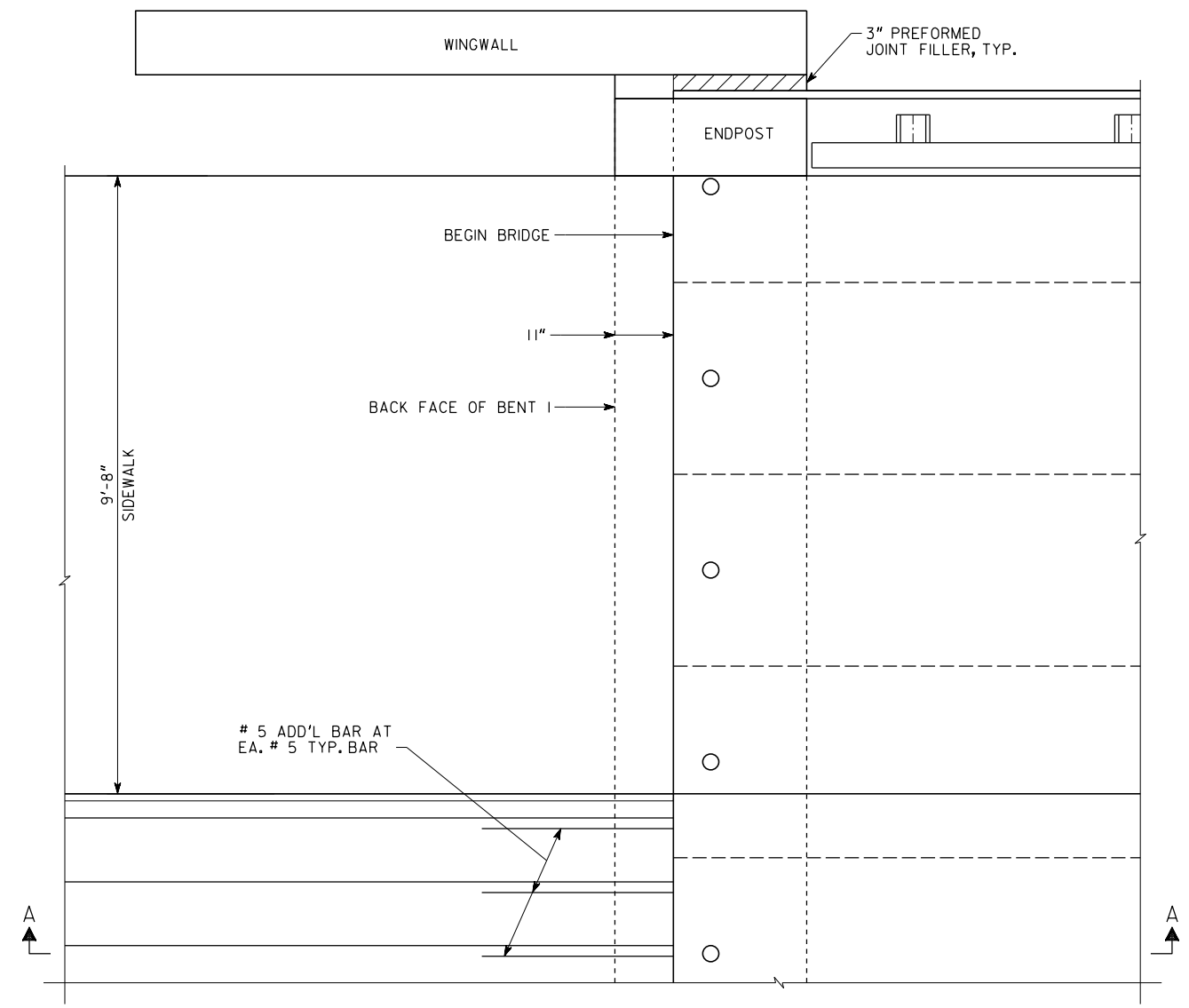
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BRIDGE SHEET 4 OF 10	DRAWN JHS/JEG	DESIGN GROUP	APPROVED

12/21/2022 3:44:36 PM USER: bna/ker

1 INCH WHEN PRINTED FULL SIZE



- NOTES:
1. APPROACH SLAB SHALL BE POURED TRANSVERSLY TO INSIDE FACES OF SIDEWALKS.
 2. BEARING PADS HAVE BEEN DESIGNED ACCORDING TO AASHTO SPECIFICATIONS DIVISION I, SECTION 14.6.6 METHOD A AND SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATIONS DIVISION II, SECTION 18, BEARINGS.
 3. 1" X 2'-0" LONG DIAMETER SMOOTH DOWELS SHALL BE ASTM A 709 GRADE 50.
 4. BEARING PADS SHALL BE MADE OF 60 DUROMETER HARDNESS NEOPRENE, GRADE 2 OR HIGHER.
 5. 3" DIAMETER HOLE IN BEARING PADS MAY BE FORMED OR DRILLED.
 6. USE OF 1/2° MOLD DRAFT IS OPTIONAL.
 7. COST OF FURNISHING AND INSTALLING BEARING PADS SHALL BE INCLUDED IN THE PRICE BID FOR "21 IN, PSC SLAB BEAM".



APPROACH SLAB PLAN
NO SCALE
BENT 1 SHOWN BENT 2 SIMILAR

BRIDGE NO. 1

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CITY OF BROOKHAVEN
PUBLIC WORKS
MISCELLANEOUS DETAILS
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY
SSD2022.01

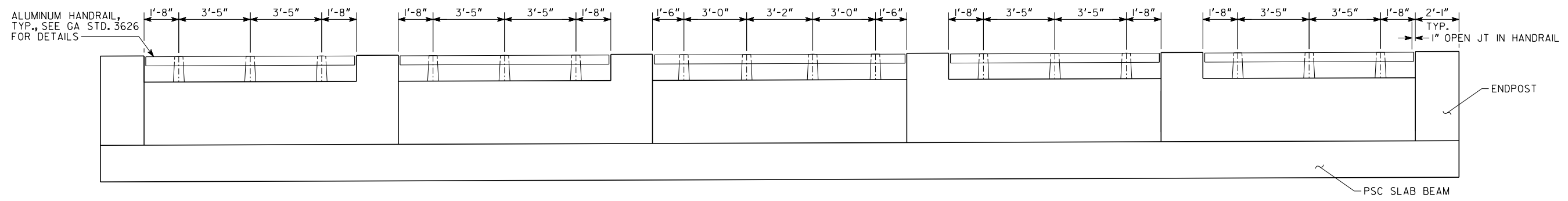
REVISIONS	DATE

DRAWING NO.
35-0005
BRIDGE SHEET
5 OF 10

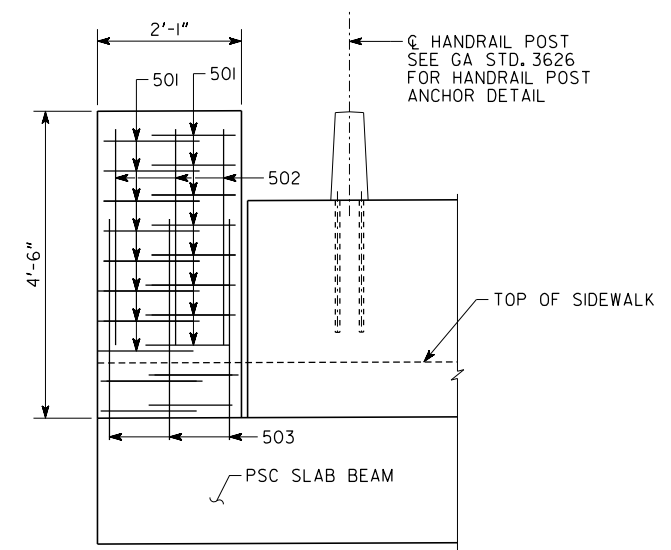
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DESIGNED BRW/GBL CHECKED TBS/BKA REVIEWED
DRAWN JHS/JEG DESIGN GROUP APPROVED

1 INCH WHEN PRINTED FULL SIZE

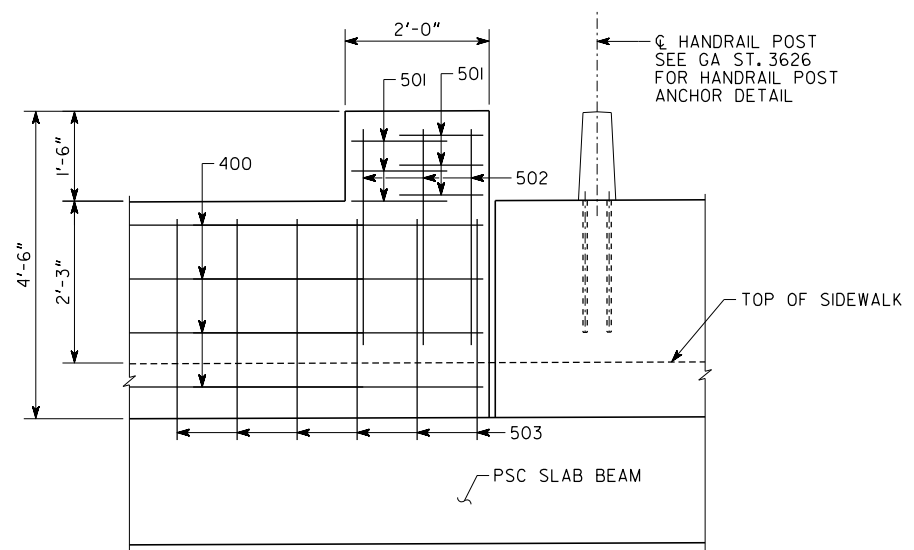
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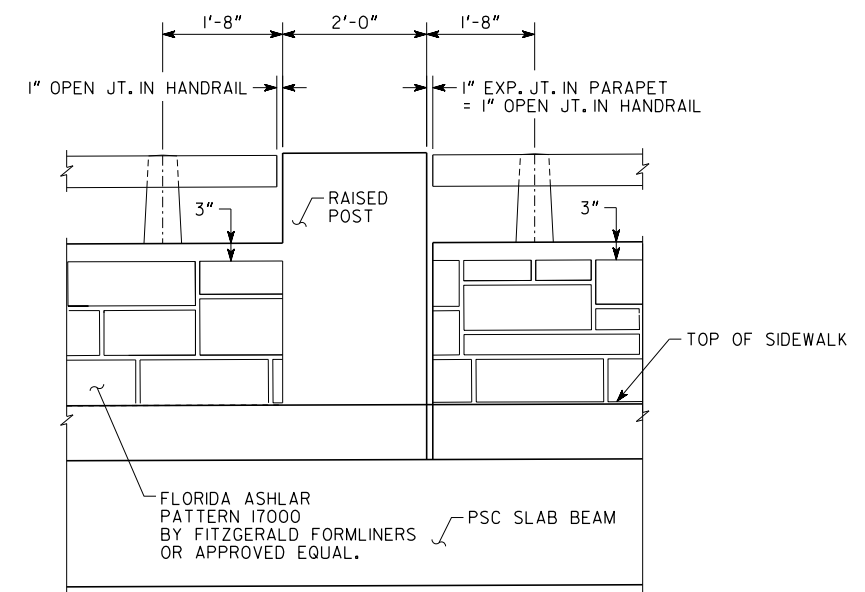
PARAPET ELEVATION



END POST DETAIL
SCALE: 3/4" = 1'-0"



RAISED POST DETAIL
SCALE: 3/4" = 1'-0"

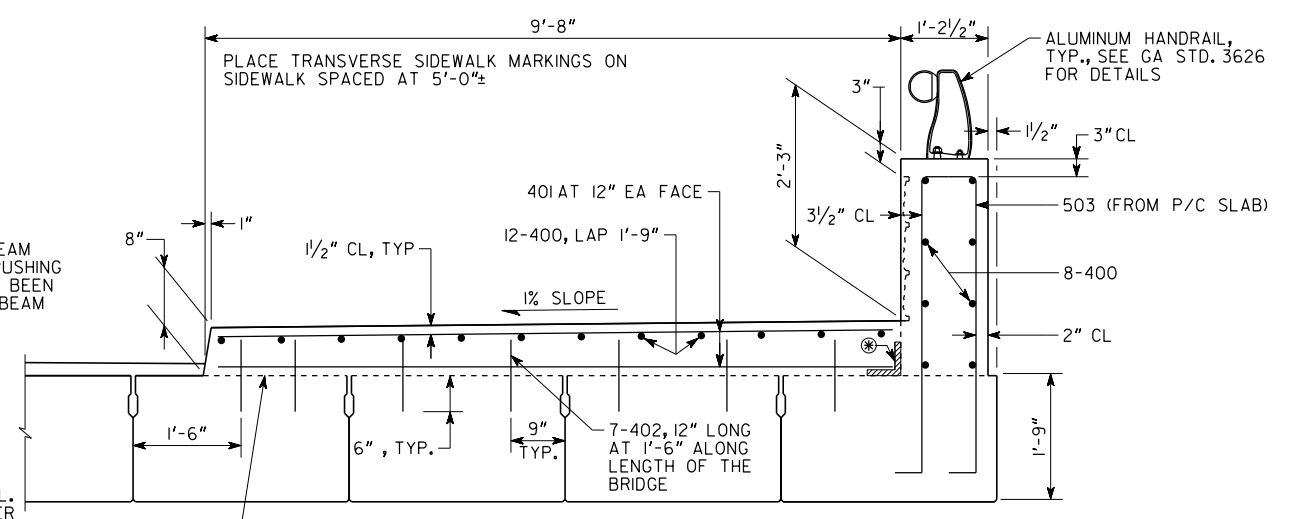


HANDRAIL JOINT DETAIL
(INSIDE FACE SHOWN)
SCALE: 3/4" = 1'-0"

3" X 3" WATERPROOFING, SEE SECTION 530 OF THE GEORGIA DOT SPECIFICATIONS.

NOTE: 402 BARS SHALL BE INSTALLED BY THE BEAM PRECASTER. THEY MAY BE INSTALLED BY PUSHING THEM IN-PLACE AFTER THE CONCRETE HAS BEEN PLACED IN THE FORMS. REINFORCEMENT IN BEAM SHALL NOT BE DAMAGED

PROVIDE A MINIMUM OF 6 MIL. POLYETHYLENE BOND BREAKER WITH 3" CL. FROM GUTTERLINE, PARAPET, OR JOINTS.



SIDEWALK PARAPET DETAILS
3/4" = 1'-0"

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PUBLIC WORKS

PARAPET AND SIDEWALK DETAIL
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY
SSD2022.01

SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NOTED
DECEMBER 2022

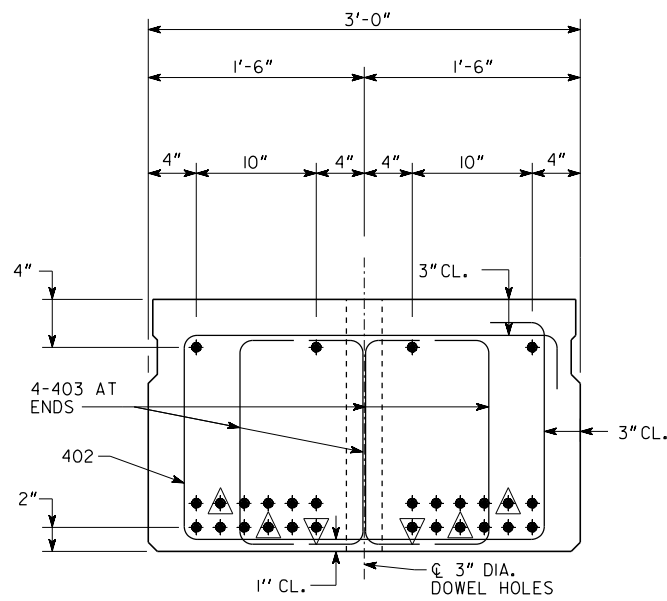
DATE	REVISIONS

DRAWING NO. 35-0006
BRIDGE SHEET 6 OF 10

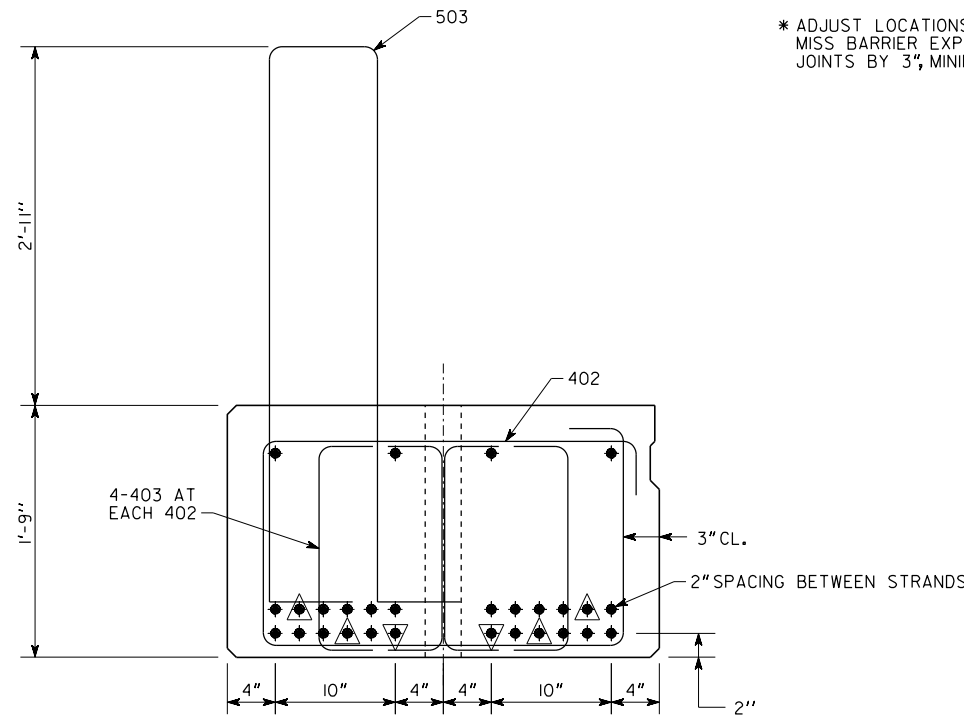
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DRAWN JHS/JEG	DESIGN GROUP	APPROVED

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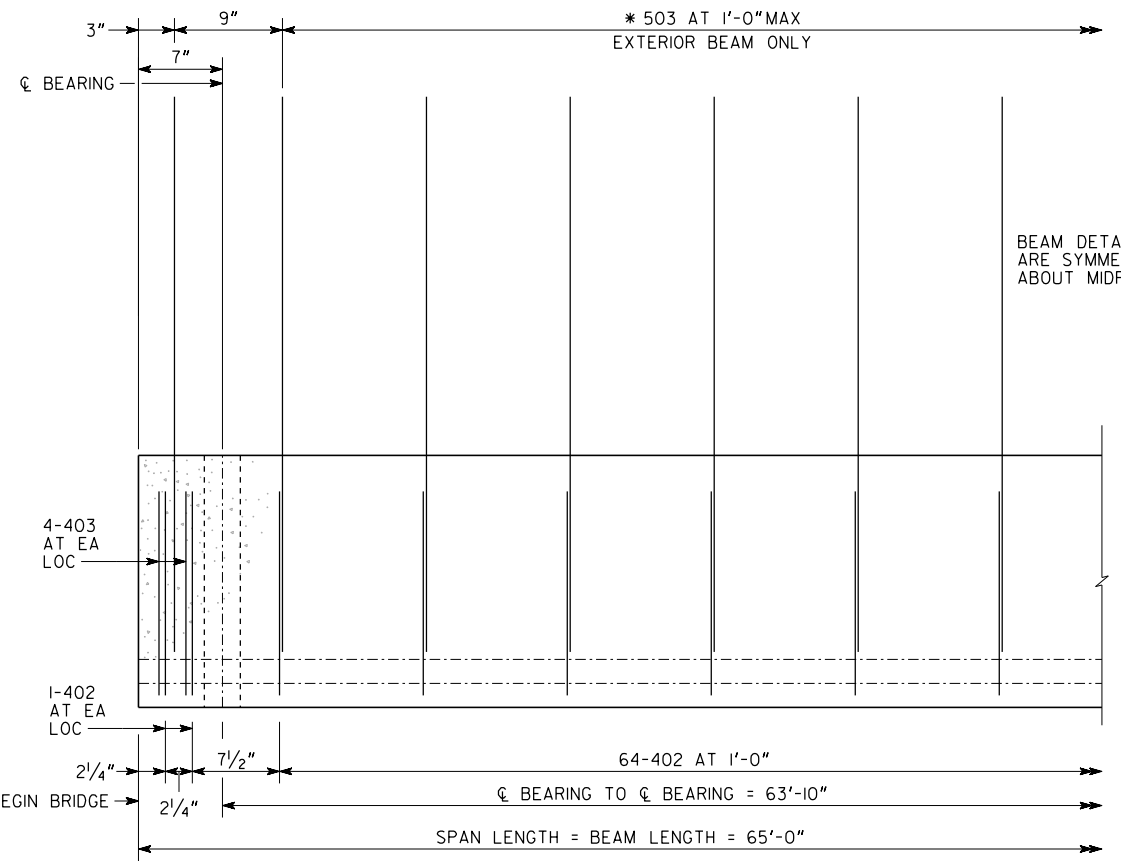


INTERIOR PSC SLAB
BEAM SECTION



EXTERIOR PSC SLAB
BEAM SECTION

* ADJUST LOCATIONS TO
MISS BARRIER EXPANSION
JOINTS BY 3", MINIMUM.



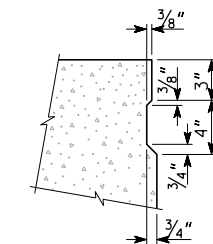
ELEVATION

BEAM DETAILS
ARE SYMMETRICAL
ABOUT MIDPOINT

NOTES

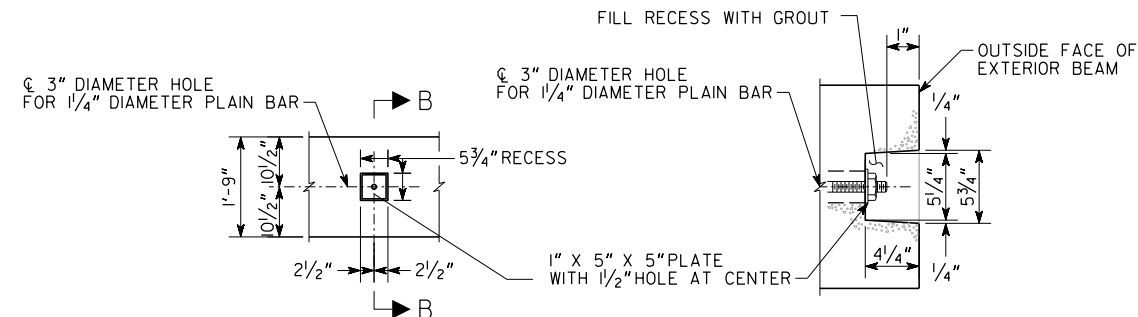
- BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 3'-6" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
- ALL HOLES FORMED INTO THE BEAMS TO FACILITATE TRANSPORT SHALL BE FILLED AND GIVEN A TYPE I FINISH, PRIOR TO ACCEPTANCE OF THE BEAM. REMOVE PVC OR SIMILAR MATERIALS FROM EACH HOLE, EXPOSING THE CONCRETE SURFACE. COAT INTERIOR OF HOLE WITH A TYPE II EPOXY RESIN ADHESIVE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATION 886 AND FILL WITH A RAPID SETTING PATCHING MATERIAL IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATION 934.
- CHAMFER EDGES OF BEAMS 1/2" OR 3/4".
- HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE 1/8" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.
- AT ϕ BEARING, FORM A 3" DIAMETER HOLE FULL DEPTH OF BEAM FOR SMOOTH DOWEL BAR.
- NON-COMPOSITE DEAD LOAD DEFLECTION (Δ_{NC}) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE OVERLAY, SIDEWALK, AND PARAPET. $\Delta_{NC} = 3/4"$.
- STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
- PRESTRESSING DATA IS AS FOLLOWS:
 - USE 28 - 0.6" DIAMETER LOW-RELAXATION ($A = 0.217$ SQ IN) STRANDS. PRETENSION STRANDS TO 43,943 LBS EACH.
 - PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_c) OF 4,500 PSI.
 - INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS 1,230,404 LBS.
 - INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 1,054,333 LBS.
- CONCRETE STRENGTH (f'_c) = 6,000 PSI.
- ALLOWABLE PSC BEAM TENSION = 465 PSI.

- BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 6'-0" FROM END OF SLAB.
- BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 12'-0" FROM END OF SLAB.



SHEAR KEY DETAIL

NOTE: OMIT SHEAR KEY ON OUTSIDE FACE OF EXTERIOR BEAMS.

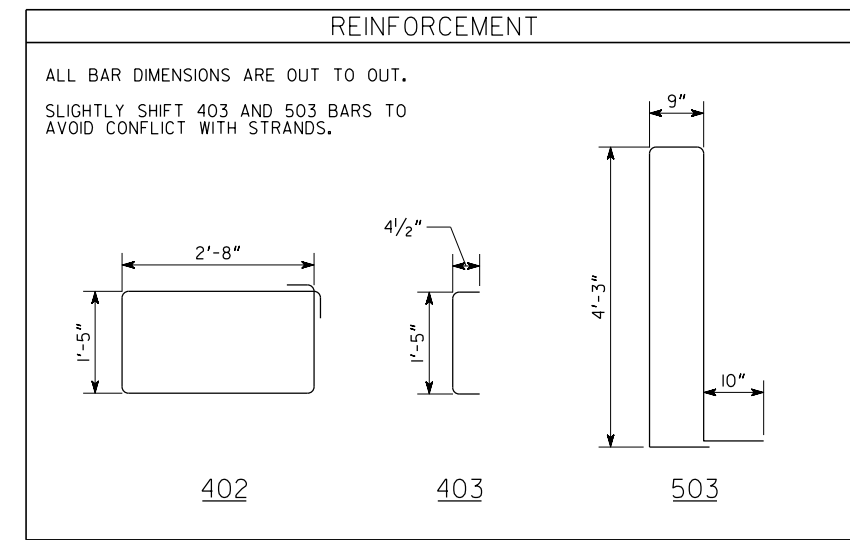


ELEVATION VIEW

SECTION B-B

TIE ROD SHALL BE A 1/2" DIAMETER PLAIN BAR CONFORMING TO ASTM A449, THREADED 5" ON EACH END, WITH WASHERS AND NUTS PLATES SHALL BE ASTM A36. TIE ROD NUTS SHALL BE SNUG PRIOR TO POURING GROUT BETWEEN BEAMS. AFTER JOINT GROUT HAS CURED, TIE ROD SHALL BE TIGHTED TO PROVIDE A MINIMUM TENSION FORCE OF 54 KIPS. VERIFY TENSION FORCE BY USE OF DIRECT TENSION INDICATING (DTI) WASHER CONFORMING TO ASTM F959. AFTER EXCESS TIE ROD HAS BEEN CUT OFF, END OF TIE ROD, PLATE WASHER, AND NUT EXPOSED IN RECESS SHALL BE PAINTED WITH SPECIAL PROTECTIVE COATING NO. 2P AS PER SECTION 535 OF GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, THE RECESS SHALL BE FILLED WITH AN APPROVED EPOXY GROUT. GALVANIZING OF TIE ROD, PLATE, WASHER AND NUT AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS REQUIRED.

RECESS DETAIL FOR TIE ROD ENDS
OF EXTERIOR SLAB BEAMS



REINFORCEMENT

BRIDGE NO. 1

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CITY OF BROOKHAVEN
PUBLIC WORKS

21 INCH PSC SLAB BEAM
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY SSD2022.01

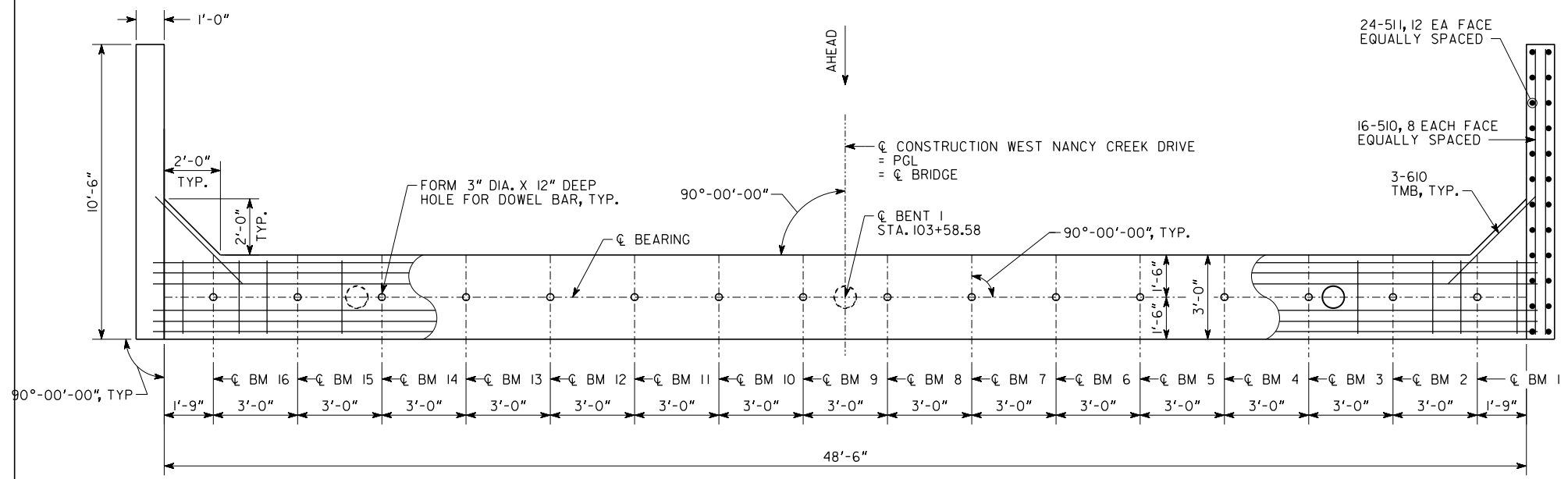
DATE	REVISIONS

DRAWING NO.
35-0007
BRIDGE SHEET
7 OF 10

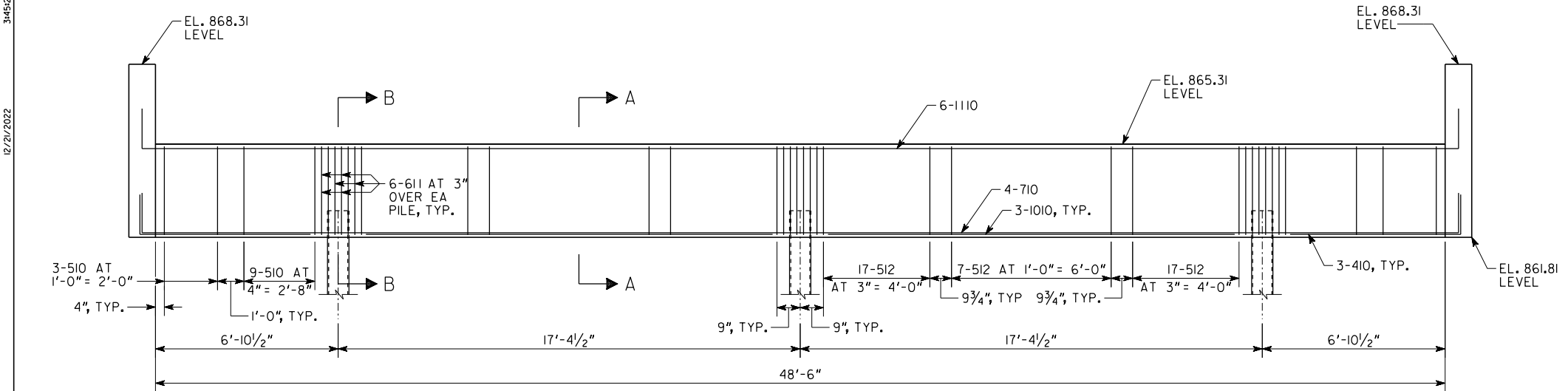
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DRAWN JHS/JEG
CHECKED TBS/BKA
DESIGN GROUP
REVIEWED
APPROVED
DECEMBER 2022

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PLAN
BENT 1

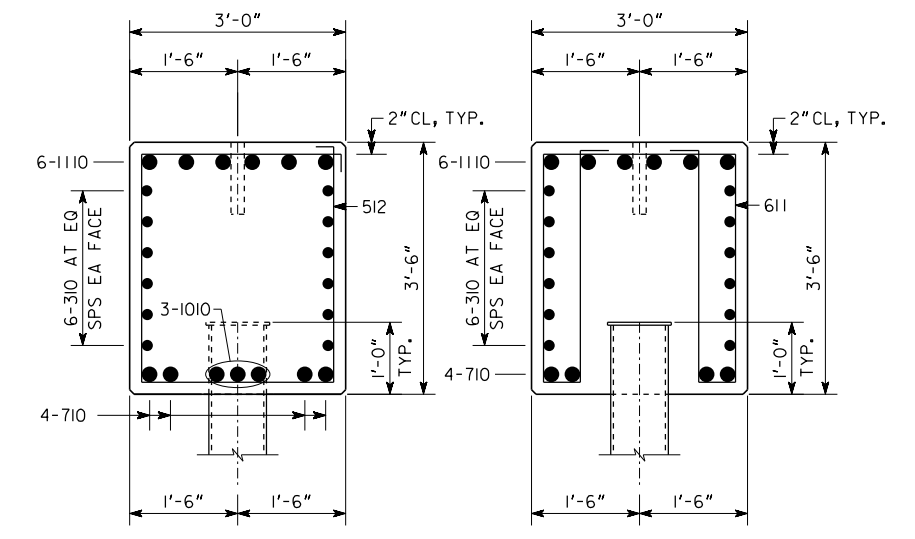


ELEVATION
BENT 1
LOOKING BACK

NOTES:

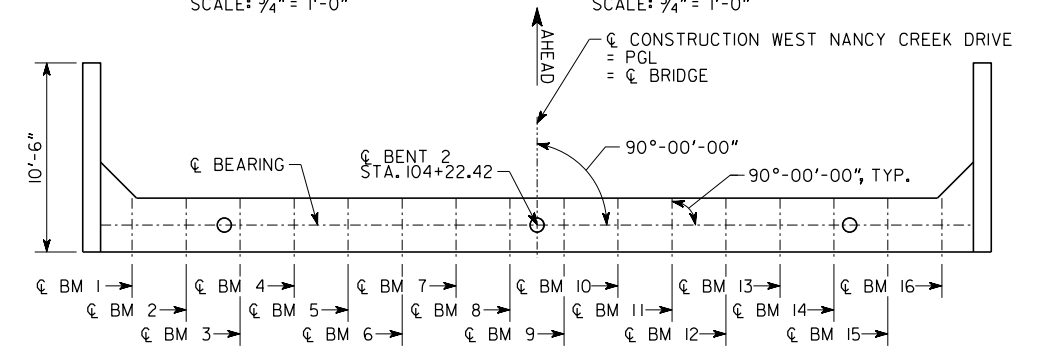
- POUR WINGWALLS MONOLITHICALLY WITH CAP.
- TMB = TOP, MIDDLE, BOTTOM
- SEE GA STD. 9037 FOR DRAINAGE DETAILS AT END BENTS.
- ALL PILES SHALL HAVE A MINIMUM OUTSIDE DIAMETER OF 9 5/8" AND A MINIMUM WALL THICKNESS OF 0.472". SEE SPECIAL PROVISION 999 FOR ADDITIONAL REQUIREMENTS.
- AT BENT 1 MICROPILES SHALL HAVE A MINIMUM TIP ELEVATION OF 801 AND A MINIMUM 19'-0" SOCKET/BOND LENGTH INTO SOUND ROCK. AT BENT 2 MICROPILES SHALL HAVE A MINIMUM TIP ELEVATION OF 791 AND A MINIMUM 19'-0" SOCKET/BOND LENGTH INTO SOUND ROCK. A MINIMUM BOND ZONE DIAMETER OF 8" SHALL BE PROVIDED AT ALL LOCATIONS.
- MICROPILES ARE DESIGNED FOR A SIDE RESISTANCE OF 11 KSF TO RESIST A SERVICE AXIAL LOAD OF 380 KIPS.
- BOTTOM OF WINGWALLS ARE LEVEL.

SUBSTRUCTURE QUANTITIES		
ITEM	BENT 1	BENT 2
CY CLASS AA CONCRETE	24.5	24.5
LB BAR REINF STEEL	5365	5365

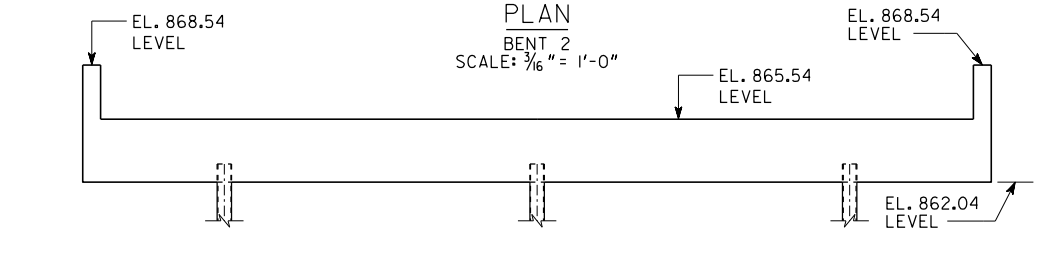


SECTION A-A
SCALE: 3/4" = 1'-0"

SECTION B-B
SCALE: 3/4" = 1'-0"



PLAN
BENT 2
SCALE: 3/8" = 1'-0"



ELEVATION
BENT 2
SCALE: 3/8" = 1'-0"

BRIDGE NO. 1



CITY OF BROOKHAVEN
PUBLIC WORKS

END BENTS 1 AND 2
WEST NANCY CREEK DRIVE
OVER NANCY CREEK TRIBUTARY
DEKALB COUNTY

SSD2022.01

SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NTOED
DECEMBER 2022

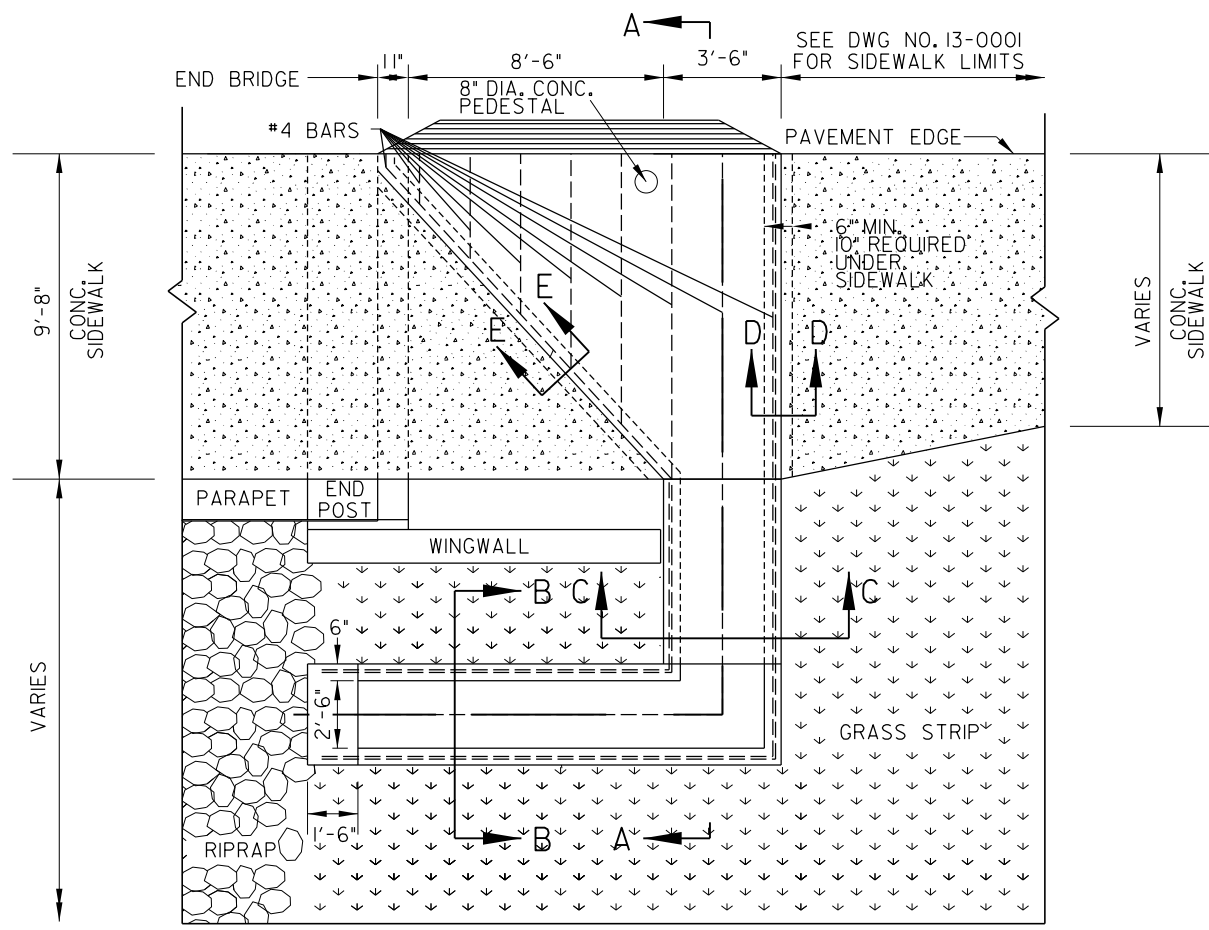
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35-0008

BRIDGE SHEET
8 OF 10

DATE	REVISIONS	BY

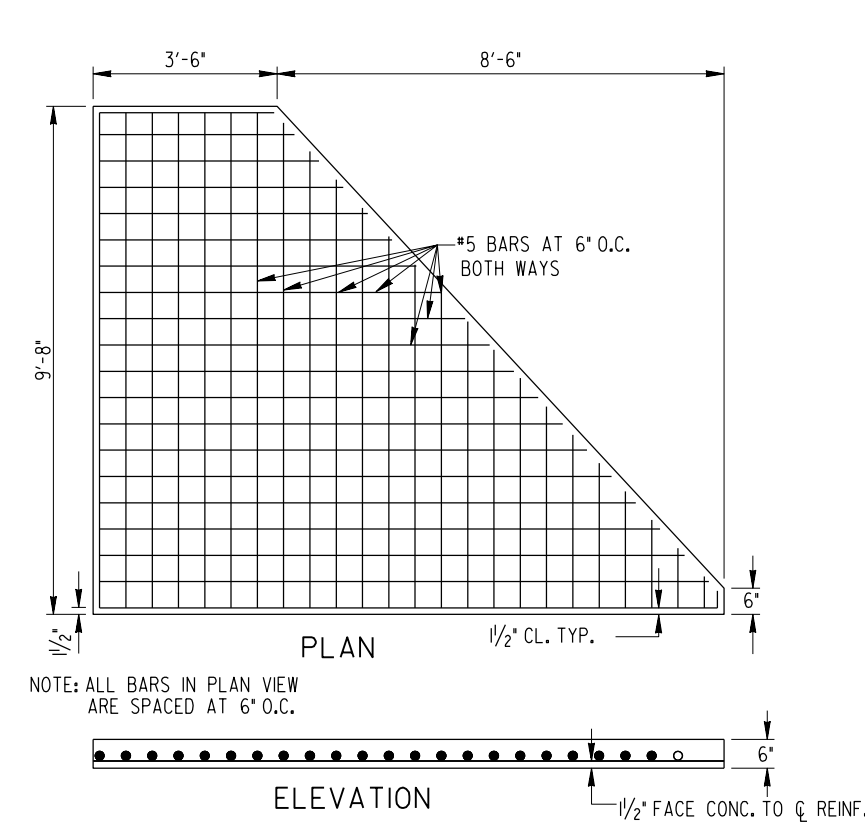
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DRAWN JHS/JEG	DESIGN GROUP	APPROVED

1 INCH WHEN PRINTED FULL SIZE

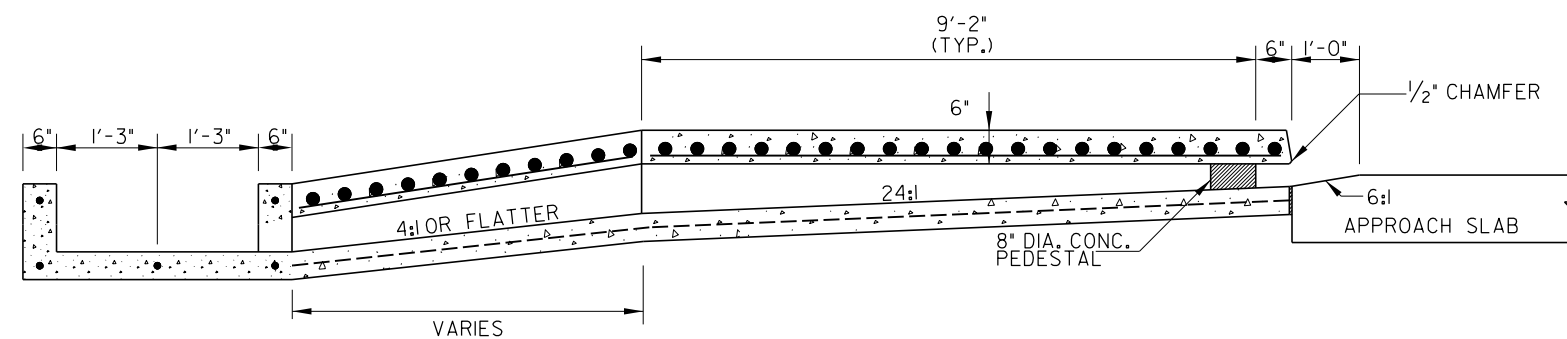
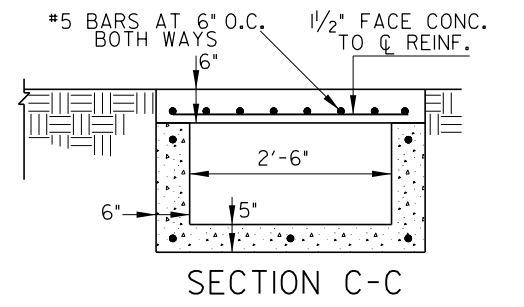
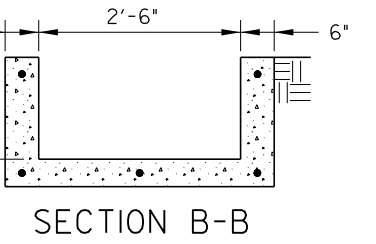
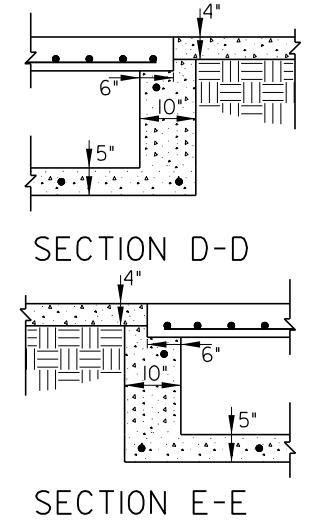


SPECIAL DESIGN SPILLWAY

BENT 2 RIGHT SHOWN, ALL OTHER LOCATIONS SIMILAR



DETAIL OF TOP REINFORCED CONCRETE SLAB



SECTION A-A

GENERAL NOTE

- SEE GEORGIA STANDARD I033D AND I034D FOR ADDITIONAL INFORMATION ON CATCH BASIN TOP AND FORMING THE TRANSITION OF THE GUTTER.
- CLASS 'A' CONCRETE REQUIRED FOR ALL REINFORCED TOP SLABS. BOTTOM SECTION MAY BE CLASS 'B' OR CLASS 'A'.

MEASUREMENT: SPECIAL DESIGN SPILLWAY UNDER SIDEWALK WILL BE MEASURED BY THE UNIT.
 PAYMENT: SPECIAL DESIGN SPILLWAY UNDER SIDEWALK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH.
 PAYMENT WILL BE MADE UNDER:
 ITEM NO. 441, CONC. SPILLWAY, SPEC DES.

Brookhaven
GEORGIA

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INCORPORATED
2390 CANTON ROAD • BUILDING 200
MARIETTA, GEORGIA 30066-5393
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N.T.S.

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		SPECIAL CONSTRUCTION DETAIL	
		WEST NANCY CREEK DRIVE BRIDGE REPLACMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SHEET INDEX	
DRAWING NO.	DESCRIPTION
1	SHEET INDEX & QUANTITIES
2	LEGEND, SYMBOLS & ABBREVIATIONS
3	GENERAL NOTES
4	PLAN
5	CONSTRUCTION DETAILS
6	CONSTRUCTION DETAILS

DETAILED QUANTITY ESTIMATE WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT WATER MAIN REPLACEMENT			
PAY ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY
670-1080	WATER MAIN, 8 IN	LF	140
670-2425	AIR RELEASE VALVE ASSEMBLY	EA	1
-	ABANDON EXIST WATER MAIN - FILL & CAP	LF	57
-	MOBILIZATION/DEMobilIZATION (5%)	LS	1

* SEE BRIDGE PLANS FOR PAYMENT OF WATER MAIN HANGER

Alexis Vazquez
Digitally signed by Alexis Vazquez
Date: 2022.12.15 11:52:41 -05'00'

ALEX VAZQUEZ, PROFESSIONAL ENGINEER,
STATE OF GEORGIA, LICENSE NO. 18875.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY ALEX VAZQUEZ, PE, ON 12/15/2022.
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.



 Brookhaven <small>GEORGIA</small>	SCALE: N/A	REVISION DATES	CITY OF BROOKHAVEN PUBLIC WORKS												
 Heath & Lineback Engineers <small>INCORPORATED</small> <small>2390 CANTON ROAD • BUILDING 200</small> <small>MARIETTA, GEORGIA 30066-5393</small> <small>(770) 424-1668</small>	DCDWM APPROVAL:		WATER UTILITY PLANS - SHEET INDEX & QUANTITIES WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT												
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td>DRAWING No.</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> <td>44-0001</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> <td></td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> <td></td> </tr> </table>	CHECKED:	DATE:	DRAWING No.	BACKCHECKED:	DATE:	44-0001	CORRECTED:	DATE:		VERIFIED:	DATE:	
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UTILITY LINECODES

UTILITY SYMBOLS

EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
---E---E---	--E-X-W--E-X-W--E-	---E---E---	ELECTRIC
---E-T---E-T---	--E-T-X--E-T-X--E-T-X	---E-T---E-T---	ELECTRIC/TELECOMMUNICATIONS
---E-TV---E-TV---	--E-TV-X--E-TV-X--E-TV-X	---E-TV---E-TV---	ELECTRIC/CABLE TV
---E-TV---E-TV---	--E-TV-X--E-TV-X--E-TV-X	---E-TV---E-TV---	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
---GW---GW---	--GW-X--GW-X--GW-X	---GW---GW---	GUY WIRE
---T---T---	--T-X--T-X--T-X--	---T---T---	TELECOMMUNICATIONS
---T-TV---T-TV---	--T-TV-X--T-TV-X--T-TV-X	---T-TV---T-TV---	TELECOMMUNICATIONS/CABLE TV
---TV---TV---	--TV-X--TV-X--TV-X--	---TV---TV---	CABLE TV

EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
-----E-----E---	-X-----E-X-----E-X-	-----E-----E---	ELECTRIC
-----T-----T---	-X-----T-X-----T-X-	-----T-----T---	TELECOMMUNICATIONS
-----TV-----TV---	-X-----TV-X-----TV-X-	-----TV-----TV---	CABLE TV
-----W-----W---	-X-----W-X-----W-X-	-----W-----W---	WATER
=====**W=====	=====**WE=====	=====**W=====	WATER FOR LABELED PIPE SIZES
-----NW-----NW---	-X-----NW-X-----NW-X-	-----NW-----NW---	NON-POTABLE WATER
=====**NW=====	=====**NWE=====	=====**NW=====	NON-POTABLE WATER FOR LABELED PIPE SIZES
-----STM-----STM---	-X-----STM-X-----STM-X-	-----STM-----STM---	STEAM
=====**STM=====	=====**STM=====	=====**STM=====	STEAM FOR LABELED PIPE SIZES
-----SS-----SS---	-X-----SS-X-----SS-X-	-----SS-----SS---	SANITARY SEWER WITH FLOW DIRECTION
-----SS-----SS---	-X-----SS-X-----SS-X-	-----SS-----SS---	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
-----SFM-----SFM---	-X-----SFM-X-----SFM-X-	-----SFM-----SFM---	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
-----G-----G---	-X-----G-X-----G-X-	-----G-----G---	GAS
=====**G=====	=====**G=====	=====**G=====	GAS FOR LABELED PIPE SIZES
-----P-----P---	-X-----P-X-----P-X-	-----P-----P---	PETROLEUM
=====**P=====	=====**P=====	=====**P=====	PETROLEUM FOR LABELED PIPE SIZES

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
			MARKER
			SPLICE BOX
			CABINET
			VENT
			ELECTRIC MANHOLE
			HAND HOLE
			TRANSFORMER
			ELECTRIC METER
			ELECTRIC BOX
			TELECOMMUNICATIONS MANHOLE
			TELECOMMUNICATIONS PEDESTAL
			SUBSCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
			CABLE TV PEDESTAL
			CABLE TV MANHOLE
			WATER VALVE
			WATER METER
			WATER MANHOLE

EXISTING	PROPOSED	TEMPORARY	
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
			BACKFLOW PREVENTER
			PRESSURE INDICATOR VALVE
			AIR RELEASE VALVE
			WELL
			WATER VAULT
			WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
			SANITARY SEWER MANHOLE
			AIR RELEASE VALVE
			GREASE TRAP
			SANITARY SEWER FORCE MAIN VALVE
			GAS VALVE
			GAS METER
			GAS MANHOLE
			GAS PRESSURE REGULATOR
			GAS VAULT
			GAS TEST STATION
			PETROLEUM VALVE

ADDITIONAL UTILITY SYMBOLS - WATER

	PROPOSED 45° BEND
	PROPOSED REDUCER
	PROPOSED EXPANSION JOINT
	PROPOSED CHLORINATION TAP
	PROPOSED SAMPLE POINT

ACRONYMNS

ARV	AIR RELEASE VALVE	WM	WATER MAIN
EXP JT	EXPANSION JOINT	PROP	PROPOSED
HORIZ	HORIZONTAL	EXIST	EXISTING
VERT	VERTICAL	APPROX	APPROXIMATE
MJ	MECHANICAL JOINT	ELEV	ELEVATION
MJR	MECHANICAL JOINT(RESTRAINED)	PSI	POUNDS PER SQUARE INCH
DIP	DUCTILE IRON PIPE	DETJ NO	DETAIL NUMBER
AC	ASBESTOS CEMENT PIPE	COP	CENTER OF PIPE
SP	SAMPLE POINT	TEMP	TEMPORARY
		SHT	SHEET



Know what's below. Call before you dig.

Alexis Vazquez, Professional Engineer, State of Georgia, License No. 18875. Digitally signed by Alexis Vazquez, Date: 2022.12.15 11:52:41 -05'00'. Includes a circular professional seal for Alexis Vazquez, Professional Engineer, State of Georgia, License No. 18875.

PROPERTY AND EXISTING R/W LINE	-----E-----	BEGIN LIMIT OF ACCESS.....BLA	-----o-----
REQUIRED R/W LINE	-----C-----	END LIMIT OF ACCESS.....ELA	-----o-----
CONSTRUCTION LIMITS	-----F-----	EXISTING LIMIT OF ACCESS	-----o-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----/-----	REQ'D LIMIT OF ACCESS	-----/-----
EASEMENT FOR CONSTR OF SLOPES	-----/-----	EXISTING LIMIT OF ACCESS & R/W	-----/-----
EASEMENT FOR CONSTR OF DRIVES	-----X-----	REQ'D LIMIT OF ACCESS & R/W	-----/-----
		ORANGE BARRIER FENCE	-----/-----
		ESA - ENV. SENSITIVE AREA	-----/-----

Brookhaven GEORGIA logo and Heath & Lineback Engineers INCORPORATED, 2390 CANTON ROAD • BUILDING 200, MARIETTA, GEORGIA 30066-5393, (770) 424-1668 logo.

SCALE: N/A

DCDWM APPROVAL:

REVISION DATES

NO.	DATE	DESCRIPTION

CITY OF BROOKHAVEN PUBLIC WORKS WATER UTILITY PLANS - LEGEND, SYMBOLS & ABBREVIATIONS WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No.
		44-0002

GENERAL NOTES FOR WATER MAIN CONSTRUCTION

1. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT (DCDWM) AND THE CONTRACTOR OF RECORD BEFORE ANY WORK CAN BE DONE ON SITE. TO PURCHASE COPY A COPY OF THE DCDWM DESIGN STANDARDS, PLEASE CALL (770) 414-2383 OR (770) 621-7272. THESE DESIGN STANDARDS MAY ALSO BE ACCESSED VIA THE INTERNET AT [HTTPS://WWW.DEKALBCOUNTYGA.GOV/WATERSHED-MANAGEMENT/WATERSHED-MANAGEMENT](https://www.dekalbcountyga.gov/watershed-management/watershed-management). THE CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT (DCDWM) INSPECTOR SEVENTY-TWO (72) HOURS PRIOR TO START OF CONSTRUCTION.

INSPECTOR	CONTACT NO	EMAIL	COVERAGE AREAS
MERCER MCGUIRE	770-687-4060	MMCGUIRE@DEKALBCOUNTYGA.GOV	SENIOR INSPECTOR
LONNIE KELLEY	404-371-2149	LKELLEY@DEKALBCOUNTYGA.GOV	15TH, 16TH, 12TH
BRUCE MAYHEW	404-371-3218	BMAYHEW@DEKALBCOUNTYGA.GOV	15TH, 16TH, 11TH
DANIEL TUCKER	404-687-4050	DATUCKER@DEKALBCOUNTYGA.GOV	18TH & 6TH
LES MOSELY	404-371-3213	LMOSLEY@DEKALBCOUNTYGA.GOV	18TH
JOSEPH YOUNG	678-794-3980	JOYOUNG@DEKALBCOUNTYGA.GOV	16TH, 12TH

CHECK WITH DCDWM FOR PERIODIC CONTACT INFORMATION UPDATES

2. ALL WORK SHALL COMPLY WITH THE DESIGN STANDARDS FOR DCDWM POTABLE WATER MAIN, GRAVITY SANITARY SEWER, AND SANITARY SEWER AND FORCE MAIN DESIGN STANDARDS, LATEST EDITION IN ADDITION TO APPLICABLE STATE, FEDERAL, AND LOCAL CODES. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE UNLESS PREVIOUSLY OBTAINED BY DCDWM.

3. DEVIATION FROM THESE PLANS WITHOUT THE PRIOR CONSENT OF DCDWM/OR THEIR REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.

4. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION HE SHALL, AT HIS OWN EXPENSE, HAVE REPLACED OR REPAIRED, THE UTILITIES TO THEIR ORIGINAL OR BETTER CONDITION AND DUALITY AS APPROVED BY THE REPRESENTATIVE OF THE OF THE RESPECTIVE UTILITY COMPANY.

5. THE CONTRACTOR SHALL MEET ALL LOCAL UTILITY COMPANY REGULATIONS IN ANY READJUSTMENT OR RELOCATION OF EXISTING SERVICES.

6. THE CONTRACTOR SHALL ADJUST PROPOSED PIPELINE LOCATION BASED ON FIELD CONDITIONS AND DCDWM INSPECTOR/PROJECT MANAGER REQUIREMENTS.

7. INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO AND CONCURRENT WITH LAND DISTURBING ACTIVITIES. ALL EROSION AND CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE INSPECTED REGULARLY USING THE EROSION AND SEDIMENT CONTROL CHECKLIST. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE OWNER.

8. DRAINAGE SYSTEMS SHALL BE MAINTAINED, KEPT FREE OF DEBRIS, AND IN OPERATING CONDITION AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RE-GRADED AS REQUIRED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.

9. ALL SIGNS, MAILBOXES, FENCING, LANDSCAPING, ETC. SHALL BE PROTECTED DURING CONSTRUCTION. SHOULD IT BE REQUIRED TO REMOVE OR DISTURB SUCH ITEMS, THE CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FIRST AND IF APPROVED THE REMOVAL OR DISTURBANCE OF SUCH ITEMS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER. SHOULD THE OWNER DEEM ANY ITEMS AS DAMAGED, THE CONTRACTOR SHALL REPLACE THE ITEMS IN LIKE AND KIND AT NO ADDITIONAL EXPENSE TO DEKALB COUNTY. TRANSPLANTED AND/OR REPLACED ITEMS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR AFTER WORK IS COMPLETED. TRAFFIC CONTROL SIGNS AND MAILBOXES SHALL BE REPLACED THE DAY OF THEIR REMOVAL.

10. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT THAT SHALL BE APPROVED BY THE DCDWM INSPECTOR PRIOR TO USE. ALL SPOIL MATERIALS, REFUSE, AND DEBRIS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION. BURNING OF REFUSE, DEBRIS, OR SPOIL MATERIAL AT THE PROJECT SITE IS NOT ALLOWED.

11. ALL PROJECT SITE AREAS DISTURBED BY CONTRACTOR OPERATIONS SHALL BE STABILIZED WITH PERMANENT GRASSING UNLESS OTHERWISE NOTED. PERMANENT GRASSING SHALL BE SOD UNLESS OTHERWISE SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE OWNER. ANY AREAS OUTSIDE THE PROJECT SITE AREA THAT ARE DISTURBED SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.

12. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRAVEL, PAVED, OR CONCRETE ENTRANCES, DRIVES, DRIVEWAYS AND APRONS TO PRECONSTRUCTION CONDITIONS AND IN ACCORDANCE WITH APPLICABLE GDOT AND DEKALB COUNTY STANDARDS AND REQUIREMENTS.

13. THE SIZE, TYPE, MATERIALS, AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. SUBSURFACE UTILITY INFORMATION SHOWN IS APPROXIMATE ONLY AND NO GUARANTEE IS MADE THAT ALL UTILITIES AND OTHER FEATURES ARE REPRESENTED ON THE PLANS ARE CORRECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

14. IF THE CONTRACTOR ENCOUNTERS SUBSURFACE CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE PLANS. HE SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER. NO EXISTING UTILITY SHALL BE DISTURBED WITHOUT PROPER AUTHORITY AND THEN ONLY IN SUCH A MANNER AS PRESCRIBED AND APPROVED BY THE OWNER OF THE EXISTING UTILITY.

15. SHOULD IT BECOME NECESSARY TO DISTURB AN EXISTING UTILITY, THE CONTRACTOR IS TO NOTIFY THE OWNER AND THE OWNER OF THE UTILITY WHEN NECESSARY. THE CONTRACTOR IS TO CEASE WORK UNTIL SATISFACTORY ARRANGEMENTS HAVE BEEN MADE WITH THE UTILITY OWNER TO PROPERLY CARE FOR AND RELOCATE THE UTILITY. NO CLAIMS SHALL BE ALLOWED BY THE CONTRACTOR ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY.

16. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EITHER THE CONTRACTOR OR UTILITY OWNER WILL PERFORM THE REPAIR AT THE DISCRETION OF THE UTILITY OWNER. NO CLAIMS FOR DAMAGES SHALL BE ALLOWED BY THE CONTRACTOR ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY.

17. THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS AND APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION OF THE PROPOSED PIPELINE, WHETHER OR NOT SUCH ITEMS ARE SHOWN OR CALLED OUT ON THE PLANS. THE CONTRACTOR IS ADVISED THAT FIELD ADJUSTMENTS MAY BE REQUIRED BASED ON ACTUAL CONDITIONS AND LOCATIONS OF EXISTING BURIED UTILITIES ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT RECEIVE ANY ADDITIONAL PAYMENT OR TIME EXTENSION FOR ITEMS NOT BEING SHOWN IN PLANS OR FOR FIELD ADJUSTMENTS MADE DUE TO ACTUAL CONDITIONS AND UTILITY LOCATION.

18. AT COMPLETION OF CONSTRUCTION, ALL VALVE BOXES, METERS, AND APPURTENANCES SHALL BE SET FOR PROPER FINISH GRADE. PRECAST STRUCTURES, MANHOLE FRAMES AND COVERS ARE TO BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIFICATIONS.

19. ALL ITEMS AND MATERIAL SHOWN TO BE SALVAGED SHALL BE RETURNED TO THE DCDWM WAREHOUSE LOCATED AT 1580 ROADHAVEN DRIVE, STONE MOUNTAIN GA.

20. ALL WATER METERS IN CONFLICT SHALL BE RELOCATED WITHIN THE EASEMENT FOR UTILITIES. EXACT LOCATION OF ADJUSTMENTS WILL BE DETERMINED IN THE FIELD.

ADDITIONAL NOTES

1. THE CONTRACTOR IS REQUIRED TO PERFORM PRE-CONSTRUCTION VIDEO OF THE ENTIRE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGED PROPERTY WITHIN THEIR CONSTRUCTION AREA THAT DIFFERS OR IS NOT SHOWN ON THE PRE-CONSTRUCTION VIDEO.

2. CONTRACTOR IS RESPONSIBLE FOR THE HORIZONTAL/VERTICAL LOCATING OF EXISTING UTILITIES INCLUDING ANY UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING UTILITY SERVICES AND SHALL REPAIR AND/OR REPLACE ANY DAMAGED SERVICES AS SOON AS POSSIBLE.

3. STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON-SITE. STORM WATER MANAGEMENT FOR THIS PROJECT CONSISTS OF TEMPORARY EROSION AND SEDIMENT CONTROLS TO BE INSTALLED DURING THE PROPOSED WORK. AT THE COMPLETION OF THE PROJECT ALL TEMPORARY MEASURES SHALL BE REMOVED.

4. PRIOR TO AND THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL FULLY COMPLY WITH THE APPLICABLE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL AGENCIES IN THE CONTROL AND CONTAINMENT OF SOIL EROSION, INCLUDING POST-CONSTRUCTION MAINTENANCE OF EROSION CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE LATEST EDITION OF THE GEORGIA MANUAL FOR EROSION AND SEDIMENTATION CONTROL.

5. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY AS WELL AS THE WAYS, MEANS AND METHODS OF CONSTRUCTION.

6. WHERE CONCRETE IS USED FOR BLOCKING, SUPPORTING, BACKFILLING, OR ANY APPLICATION WHERE IT MAY CONTACT PROPOSED OR EXISTING FITTINGS OR VALVES, THE FITTING OR VALVE SHALL BE WRAPPED IN POLYETHYLENE TO PREVENT BONDING.

7. ALL VALVES SHALL BE PROVIDED WITH VALVE BOX AND SHALL BE MARKED BY CONCRETE VALVE MARKERS.

8. THE CONTRACTOR SHALL PROVIDE PROPER RESTRAINT NECESSARY FOR PRESSURE TESTING.

9. WATER AND SEWER FEES SHALL BE PAID BY THE CONTRACTOR UNDER THE FOLLOWING CIRCUMSTANCES: NEW CONSTRUCTION, REDEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. CONTRACTOR TO DETERMINE COST PRIOR TO BID AND INCLUDE INCIDENTAL TO THE WORK. THESE FEES ARE PAID AT 330 W. PONCE DE LEON AVENUE. 2ND FLOOR. FAILURE TO SETTLE THESE FEES SHALL RESULT IN DELAYS FOR OBTAINING WATER AND SEWER APPROVAL. CALL 1404! 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS. FAILURE IN PAYMENT OF THESE FEES WILL RESULT IN PORTIONMENT OF THE PLAN REVIEW PROCESS

10. ALL ITEMS WHICH MUST BE REMOVED DURING CONSTRUCTION AND ARE NOT SPECIFICALLY SHOWN TO BE PAID FOR OTHERWISE SHALL BE REMOVED AND PAID FOR IN THE UNIT PRICE BID FOR WATER MAIN. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.

11. CONTRACTOR TO SEQUENCE WATER MAIN INSTALLATION SO AS NOT TO DAMAGE EXISTING WATER MAINS AND/OR DISRUPT EXISTING SERVICE.

12. THE CONTRACTOR IS TO MAINTAIN COMPLETE RECORDS AS LINE-WORK PROGRESSES AND SUBMIT WITH MONTHLY PAY APPLICATION.

13. BEDDING SHALL BE USED AS RECOMMENDED PER STANDARD. BEDDING SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT. COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER MAINS. NO CLAIM WILL BE CONSIDERED FOR EXTRA COMPENSATION.

14. THE CONTRACTOR IS REQUIRED TO NOTIFY, IN ADVANCE IN WRITING, ALL RESIDENTS IN THE AREA AFFECTED BY THE WORK TO BE PERFORMED. THE NOTICE SHALL SHOW THE STARTING AND FINISHING DATES.

15. PLUGGING OF EXISTING WATER MAINS SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT. COST SHALL BE INCLUDED IN OTHER WORK. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.

16. ALL NEW PIPE TO BE INSTALLED MUST HAVE MECHANICALLY RESTRAINED JOINTS. THRUST BLOCKS ARE REQUIRED AT CONNECTIONS TO EXISTING MAINS OR WHERE UNBALANCED FORCES ARE PRESENT.

17. PAYMENT FOR UNIT PRICE ITEMS SHALL INCLUDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND PERFORMING OPERATIONS REQUIRED TO COMPLETE THE WORK SATISFACTORILY, IN PLACE, AS SPECIFIED AND AS INDICATED ON THE DRAWINGS. THE COST OF WORK NOT DIRECTLY COVERED BY THE PAY ITEMS SHALL BE CONSIDERED INCIDENTAL WITH NO ADDITIONAL COMPENSATION.

18. IN THE EVENT OF AN EMERGENCY, CONTRACTOR SHALL IMMEDIATELY CONTACT DCDWM DISPATCH AT (404) 270-6423.

19. ALL NEW WATER MAINS SHALL BE SUCCESSFULLY TESTED, DISINFECTED AND APPROVED BY DCDWM PRIOR TO CONNECTION TO EXISTING MAINS OR SERVICES. TO SCHEDULE A CHLORINATION TEST, THE CONTRACTOR SHALL NOTIFY THE DCDWM INSPECTOR A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE AT (770) 621-7200.

20. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED AT THE TIME OF INITIAL INSTALLATION. THE CONTRACTOR SHALL CONTACT THE DEKALB COUNTY BACKFLOW PREVENTION SECTION AT (404) 687-4075 AT MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE INSTALLATION OF THE ASSEMBLY. THE CONTRACTOR SHALL ALSO PROVIDE A COPY OF THE BACKFLOW PREVENTION DEVICE TEST AND MAINTENANCE REPORT TO DEKALB COUNTY.

21. AT NO TIME SHALL ANY WATER MAIN CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF THE PLANS AND RECEIPT OF ANY REQUIRED AGREEMENT DOCUMENTS.

22. ONLY DCDWM-APPROVED CONTRACTORS SHALL INSTALL WATER MAINS WITHIN THE COUNTY RIGHT-OF-WAY OR COUNTY EASEMENT. ONLY DCDWM-APPROVED CONTRACTORS SHALL MAKE ANY CONNECTIONS TO THE EXISTING DCDWM SYSTEM.

23. ALL WATER MAINS, VALVES, AND OTHER APPURTENANCES TO BE DEDICATED TO, OR OWNED BY DCDWM, SHALL BE INSTALLED ACCORDING TO THE "APPROVED" DESIGN. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER'S ENGINEER OR PROJECT MANAGER BEFORE CHANGES ARE IMPLEMENTED. THE CONTRACTOR SHALL HAVE A SET OF THE "APPROVED" DESIGN PLANS CONTAINING AN ORIGINAL DCDWM STAMP, AND A COPY OF THE DCDWM DESIGN STANDARDS, MOST CURRENT EDITION, ALWAYS ON SITE.

24. THE CONTRACTOR SHALL ADHERE TO THE FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS THAT IN ANY MANNER AFFECT THE CONDUCT OF WORK, INCLUDING, BUT NOT LIMITED TO, INITIATING, MAINTAINING, AND SUPERVISING THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

25. THE CONTRACTOR SHALL SELECT MATERIALS AND CORROSION PROTECTION SYSTEMS THAT SHALL ENSURE THE LONG-TERM INTEGRITY OF VALVES AND FITTINGS UTILIZED.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL CUSTOMERS AFFECTED BY ANY INTERRUPTION OF WATER SERVICES. SUCH NOTIFICATION SHALL BE MADE AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF THE PLANNED SHUTDOWN. NO SERVICE SHALL BE INTERRUPTED WITHOUT THE DCDWM INSPECTOR'S APPROVAL.

27. ALL DESIGN AND CONSTRUCTION FOR WATER AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARD LATEST EDITION.

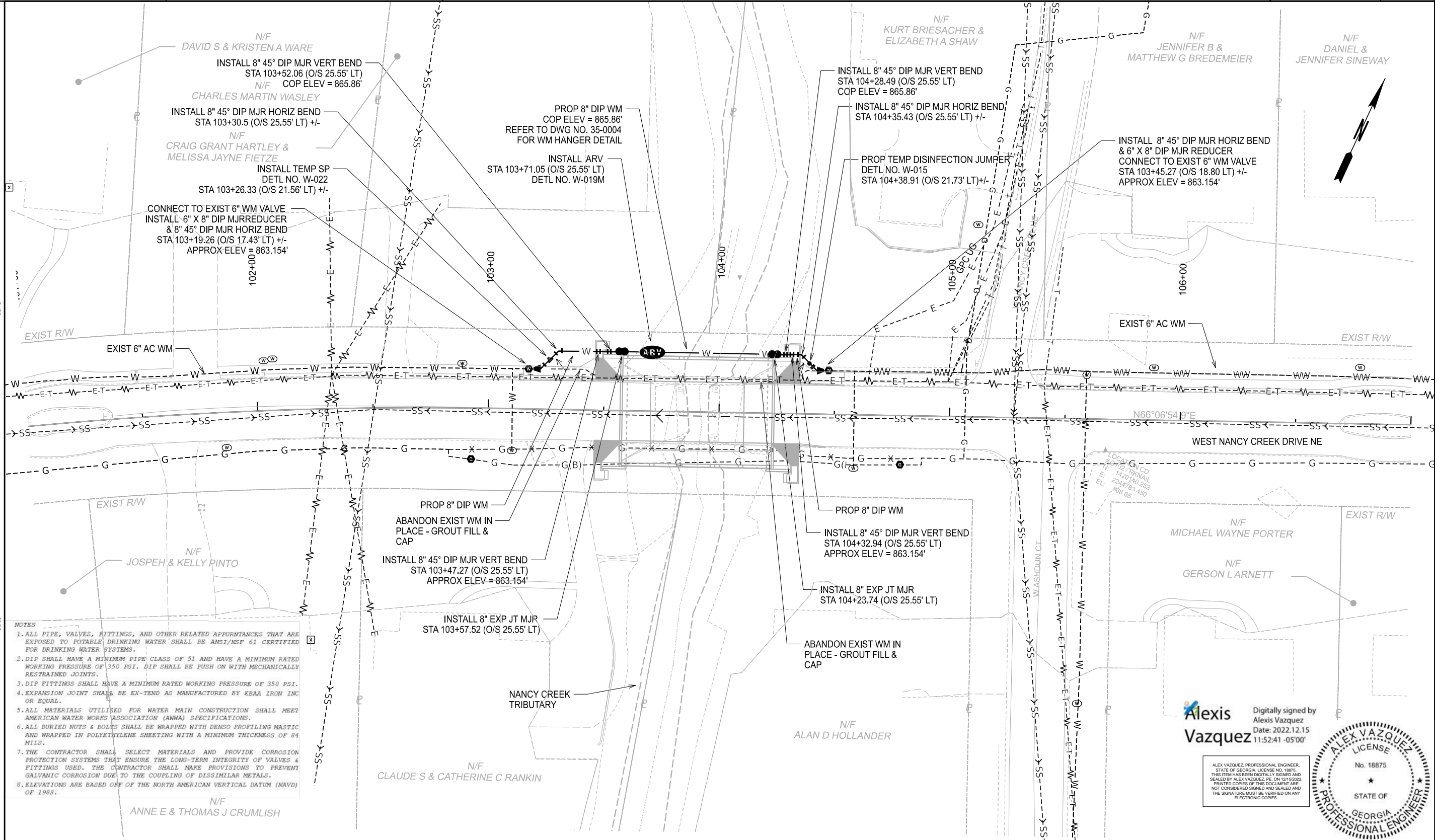
28. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF THE "AS-BUILT PLANS".

29. THE CONTRACTOR SHALL PROVIDE A MAINTENANCE BOND TO THE DCDWM PRIOR TO APPROVAL OF THE AS-BUILT PLANS IF PROJECT IS LOCATED WITHIN THE CITY.

30. PROJECTS ENTERING A STATE OF GEORGIA CONTROLLED RIGHT-OF-WAY WILL REQUIRE GDOT PERMIT. ALL REQUIRED MATERIALS TO BE SUBMITTED TO DWM. REFER TO GDOT CHECKLIST FOR REQUIREMENTS.

Alexis Vazquez
 Digitally signed by Alexis Vazquez
 Date: 2022.12.15 11:52:41 -05'00'

ALEX VAZQUEZ
 LICENSE
 No. 18875
 STATE OF GEORGIA
 PROFESSIONAL ENGINEER



- NOTES**
1. ALL PIPE, VALVES, FITTINGS, AND OTHER RELATED APPURTANCES THAT ARE EXPOSED TO POTABLE DRINKING WATER SHALL BE ANSI/NSF 61 CERTIFIED FOR DRINKING WATER SYSTEMS.
 2. DIP SHALL HAVE A MINIMUM PIPE CLASS OF 51 AND HAVE A MINIMUM RATED WORKING PRESSURE OF 350 PSI. DIP SHALL BE PUSH ON WITH MECHANICALLY RESTRAINED JOINTS.
 3. DIP FITTINGS SHALL HAVE A MINIMUM RATED WORKING PRESSURE OF 350 PSI.
 4. EXPANSION JOINT SHALL BE EX-TEND AS MANUFACTURED BY EBAA IRON INC OR EQUAL.
 5. ALL MATERIALS UTILIZED FOR WATER MAIN CONSTRUCTION SHALL MEET AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
 6. ALL BURIED NUTS & BOLTS SHALL BE WRAPPED WITH DENSO PROFILING MASTIC AND WRAPPED IN POLYETHYLENE SHEETING WITH A MINIMUM THICKNESS OF 84 MILS.
 7. THE CONTRACTOR SHALL SELECT MATERIALS AND PROVIDE CORROSION PROTECTION SYSTEMS THAT ENSURE THE LONG-TERM INTEGRITY OF VALVES & FITTINGS USED. THE CONTRACTOR SHALL MAKE PROVISIONS TO PREVENT GALVANIC CORROSION DUE TO THE COUPLING OF DISSIMILAR METALS.
 8. ELEVATIONS ARE BASED OFF OF THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

PROPERTY AND EXISTING R/W LINE	---	BEGIN LIMIT OF ACCESS.....BLA	---
REQUIRED R/W LINE	---	END LIMIT OF ACCESS.....ELA	---
CONSTRUCTION LIMITS	---	EXISTING LIMIT OF ACCESS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---	REQ'D LIMIT OF ACCESS	---
EASEMENT FOR CONSTR OF SLOPES	---	EXISTING LIMIT OF ACCESS & R/W	---
EASEMENT FOR CONSTR OF DRIVES	---	REQ'D LIMIT OF ACCESS & R/W	---
	---	ORANGE BARRIER FENCE	---
	---	ESA - ENV. SENSITIVE AREA	---

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SCALE IN FEET
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DCCDWM APPROVAL:

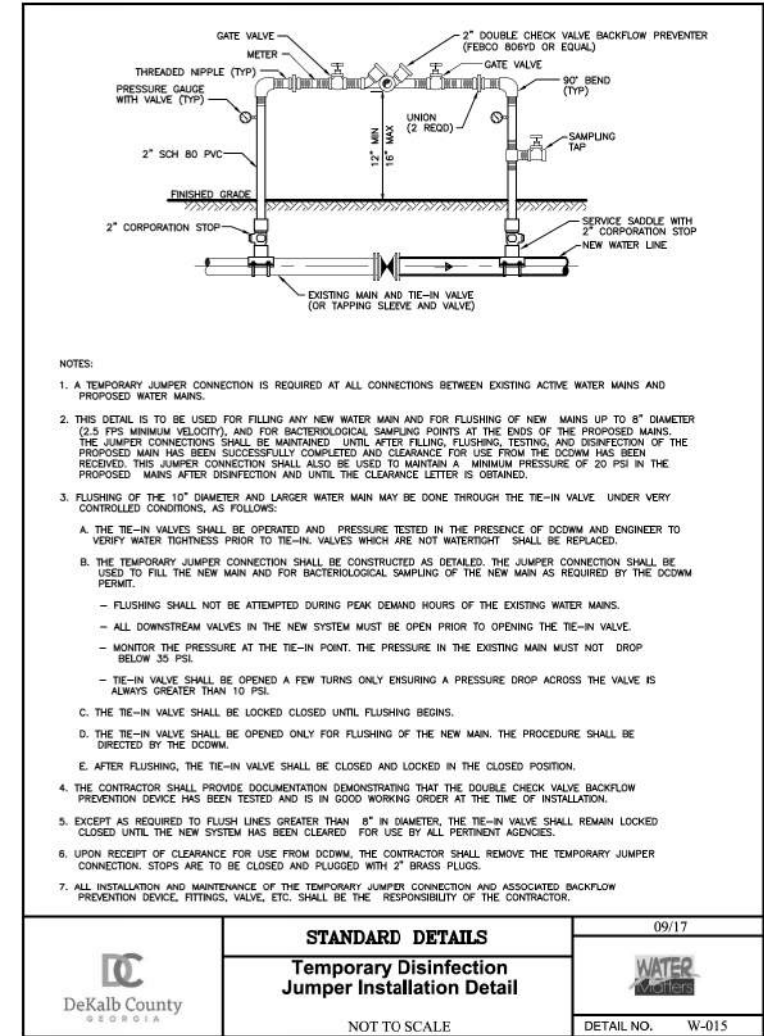
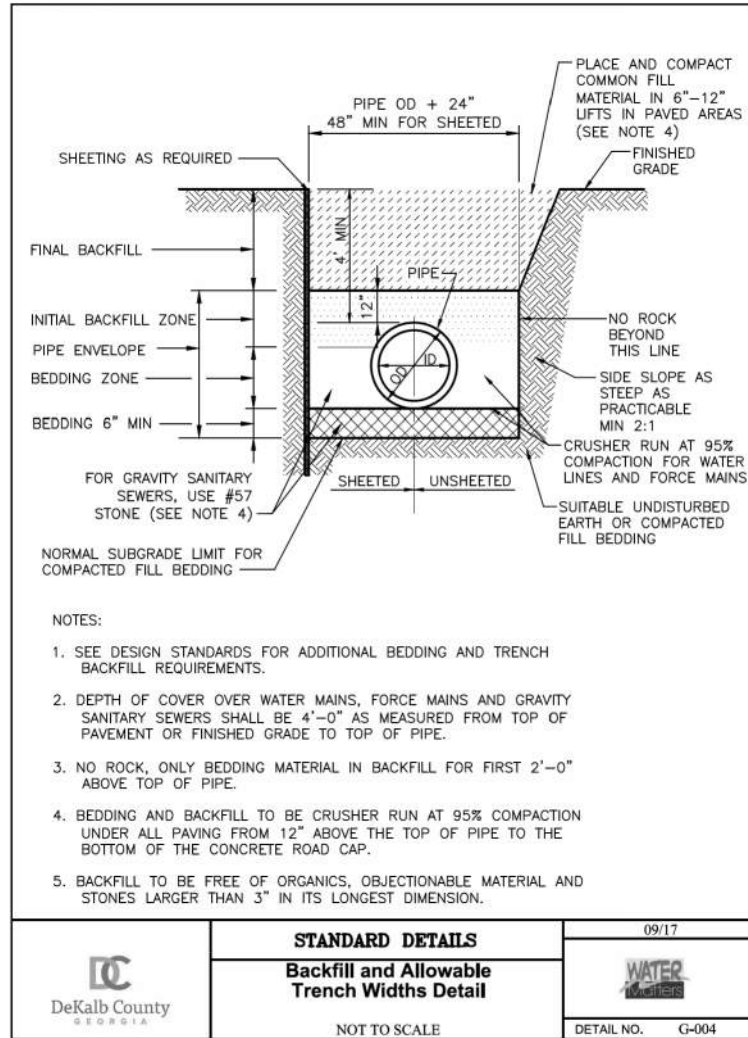
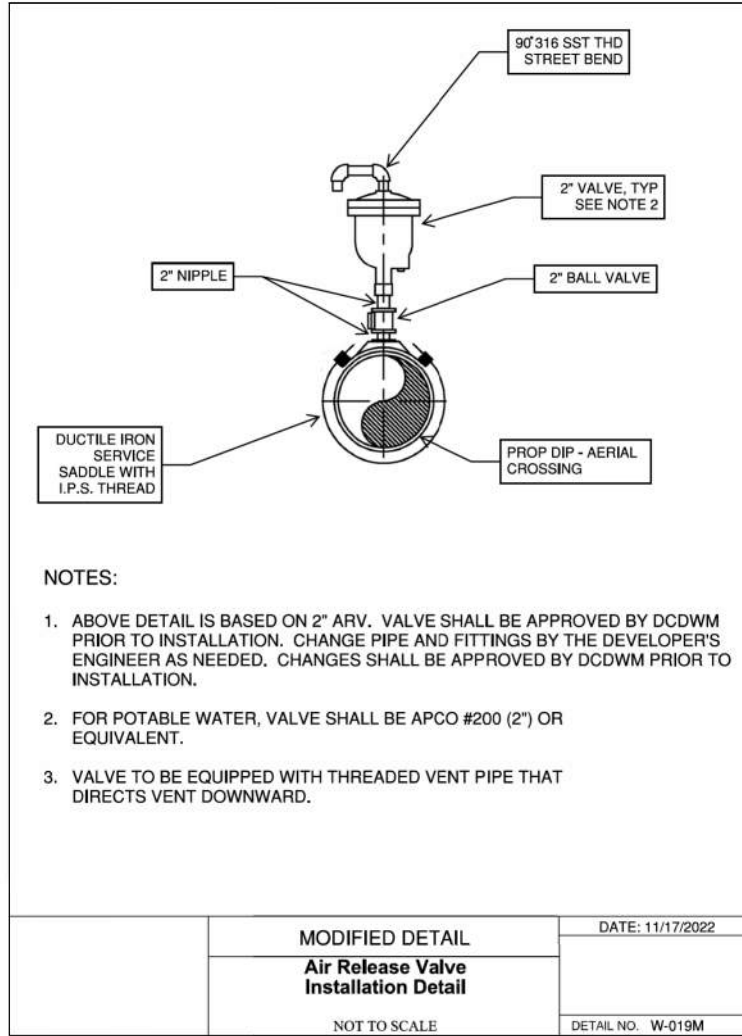
REVISION DATES	CITY OF BROOKHAVEN PUBLIC WORKS
	WATER UTILITY PLANS - PLAN
	WEST NANCY CREEK DRIVE BRIDGE REPLACMENT
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CORRECTED:	DATE:
VERIFIED:	DATE:

Digitally signed by Alex Vazquez
Date: 2022.12.15 11:52:41 -05'00'

Alexis Vazquez
PROFESSIONAL ENGINEER
No. 18875
STATE OF GEORGIA

ALEX VAZQUEZ
LICENSE
No. 18875
STATE OF GEORGIA
PROFESSIONAL ENGINEER

DRAWING No. 44-0004



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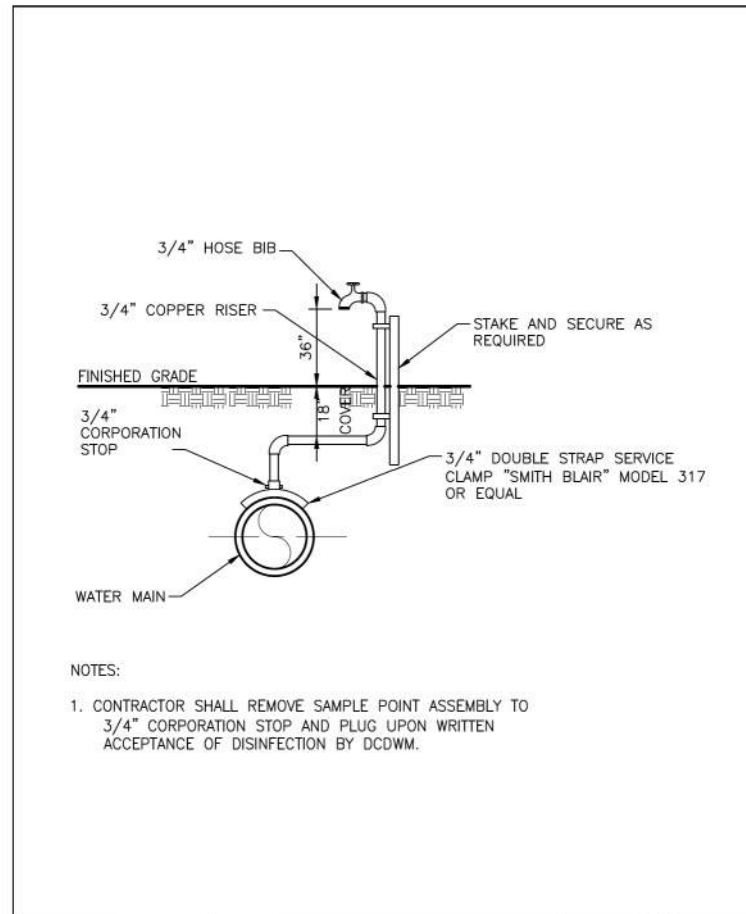
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		WATER UTILITY PLANS - CONSTRUCTION DETAILS WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
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Alexis Vazquez
 Date: 2022.12.15
 11:52:41 -05'00'

ALEX VAZQUEZ, PROFESSIONAL ENGINEER,
STATE OF GEORGIA LICENSE NO. 18875.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY ALEX VAZQUEZ, PE ON 12/15/2022.
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.



	STANDARD DETAILS	09/17
	Temporary Water Sample Station Detail NOT TO SCALE	
DETAIL NO. W-022		

Alexis Vazquez
 Digitally signed by Alexis Vazquez
 Date: 2022.12.15 11:52:41 -05'00'

ALEX VAZQUEZ, PROFESSIONAL ENGINEER, STATE OF GEORGIA, LICENSE NO. 18875. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEX VAZQUEZ, PE, ON 12/15/2022. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



	SCALE: N/A	REVISION DATES	CITY OF BROOKHAVEN PUBLIC WORKS	
			WATER UTILITY PLANS - CONSTRUCTION DETAILS WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
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Georgia Soil and Water Conservation Commission
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: DeKalb County - Region 2

Project Name: West Nancy Creek Drive Bridge Replacement Address: West Nancy Creek Drive
City/County: City of Brookhaven/DeKalb County Date on Plans: 12/20/2022
Name & Email of Person Filling Out Checklist: Warren Dimsdale, wdimsdale@heath-lineback.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)
01-0001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed.)
01-0001	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls
01-0001	Y	4 Provide the name, address, email address, and phone number of primary permittee.
53-0001	Y	5 Note total and disturbed acreage of the project or phase under construction.
01-0001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
01-0001	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0003	Y	8 Description of the nature of construction activity.
01-0001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
53-0001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
01-0001	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
N/A	N/A	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit.*
N/A	N/A	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV D 6 c (3) page 37 of permit as applicable.*
N/A	N/A	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV A.5, page 26 of the permit.*
51-0003	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25' or 50-foot undisturbed stream buffers as measured from the point of arrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0003	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
N/A	N/A	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
N/A	N/A	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
51-0002	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0002	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biot Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
N/A	N/A	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."
51-0002	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
N/A	N/A	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."
N/A	N/A	27 Description of practices to provide cover for building materials and building products on site."
N/A	N/A	28 Description of the practices that will be used to reduce the pollutants in storm water discharges."

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0002	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
N/A	N/A	30 Provide complete requirements of inspections and record keeping by the primary permittee."
N/A	N/A	31 Provide complete requirements of sampling frequency and reporting of sampling results."
N/A	N/A	32 Provide complete details for retention of records as per Part IV F. of the permit."
N/A	N/A	33 Description of analytical methods to be used to collect and analyze the samples from each location."
N/A	N/A	34 Appendix B rationale for NTU values at all outfall sampling points where applicable."
N/A	N/A	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which stormwater discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable."
N/A	N/A	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase."
53-001; 54ALL	Y	37 Graphic scale and North arrow.
53-0001	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1" 2000' Topographical Sheets Proposed Contours 1" 400' Centerline Profile
51-0003	Y	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition."
53-0001; 54-ALL	Y	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
53-0001	Y	42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-ALL	Y	43 Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44 Delineate on-site drainage and off-site watersheds using USGS 1" 2000' topographical sheets.
53-0002	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
53-0002	Y	46 Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0002	Y	47 Soil series for the project site and their delineation.
54-ALL	Y	48 The limits of disturbance for each phase of construction.
51-0003	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
54-ALL	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
52-ALL; 56-ALL	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0002	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*Using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A. Effective January 1, 2022

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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		ESPCC GENERAL NOTES WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
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BACKCHECKED:	DATE:	51-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

ESPCP GENERAL NOTES

The escape of sediment from the project site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities.
 Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

ESPCP ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance with Special Provision 161-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/visions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

CONSTRUCTION SCHEDULE AND SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

Stage 1 - Initial Phase: Work in this stage includes installing initial BMPs.
A. Initial BMPs: Install the following BMPs prior to construction:
 1. Install perimeter silt fence, and orange barrier fence as shown on stage 1 plans prior to clearing and grubbing operations
 2. Contractor is responsible for establishing construction exits.
B. Intermediate BMPs: N/A
C. Final BMPs: N/A

Stage 2 - Intermediate Phase: Work in this stage includes clearing and grubbing, project construction, installing and maintaining intermediate BMPs.
A. Initial BMPs: N/A
B. Intermediate BMPs: While earthwork is progressing, do the following:
 1. Place temporary grassing and mulch as needed.
 2. Adjust perimeter silt fence as needed.
 3. Install and maintain inlet sediment traps where shown in stage 2 plans until final BMPs can be installed.
C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
 1. Sod, mulch, slope stabilization, and ditch protection where shown on the Stage 3 plans.
 2. Rip rap (see Stage 3 plans).

Stage 3 - Final Phase:
A. Initial BMPs: N/A
B. Intermediate BMPs: N/A
C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
 1. Sod, mulch, slope stabilization, and ditch protection where shown on the Stage 3 plans.
 2. Rip rap (see Stage 3 plans).

Month	1	2	3
Install Temporary Erosion Control Measures			
Maintenance of Temporary Erosion Control Measures			
Perform Construction Activities			
Establish Permanent Vegetation			
Remove Temporary Erosion Control Measures			

BMP INSTALLATION AND MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for installation and maintenance measures.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARIO0002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans, and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARIO0002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing sludge, paint, oils, curing compounds, and other construction materials.

OTHER CONTROLS

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

SITE STABILIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GARIO0002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

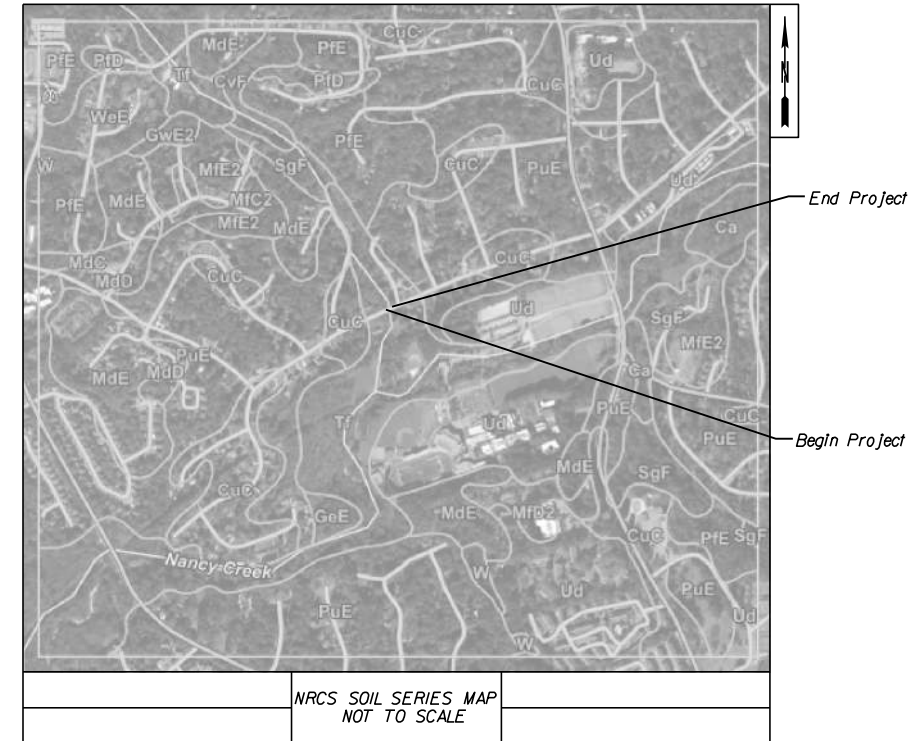
All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:



Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websol survey.sc.egov.usda.gov/App/HomePage.htm>.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ca	Carteay silt loam, frequently flooded	9.5	1.3%
CuC	Cecil-Urban land complex, 2 to 10 percent slopes	70.2	9.4%
CvF	Chestnut stony sandy loam, 15 to 45 percent slopes	7.3	1.0%
GeE	Gwinnett sandy loam, 15 to 30 percent slopes	2.9	0.4%
GwE2	Gwinnett sandy clay loam, 15 to 25 percent slopes, eroded	2.4	0.3%
MeC	Madison sandy loam, 6 to 10 percent slopes	2.9	0.4%
MeD	Madison sandy loam, 10 to 15 percent slopes	7.3	1.0%
MeE	Madison sandy loam, 15 to 30 percent slopes	55.1	7.3%
MIC2	Madison sandy clay loam, 2 to 10 percent slopes, eroded	4.3	0.6%
MID2	Madison sandy clay loam, 10 to 15 percent slopes, moderately eroded	6.9	0.9%
MIE2	Madison sandy clay loam, 15 to 25 percent slopes, eroded	21.5	2.9%
PID	Picolet sandy loam, 10 to 15 percent slopes	5.6	0.7%
PIE	Picolet sandy loam, 15 to 30 percent slopes	53.1	7.1%
PuE	Picolet-Urban land complex, 10 to 25 percent slopes	273.5	36.5%
SgF	Sweetapple-Grover complex, 15 to 45 percent slopes	18.2	2.4%
Tf	Toccoa sandy loam, 0 to 2 percent slopes, frequently flooded	101.0	13.5%
Ud	Urban land	92.4	12.3%
W	Water	2.5	0.3%
WeE	Wedowee sandy loam, 10 to 25 percent slopes	12.7	1.7%
Totals for Area of Interest		749.2	100.0%

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SEDIMENT STORAGE

The site has a total disturbed area of 0.21 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd ³)	Total Storage Volume Provided (yd ³)	Inlet Sediment Traps, SD2-P (1.04 yd ³ /each)		Silt Fence, TP C (0.17 yd ³ /ft)		J-Hooks (2.5 yd ³ /each)	
					# of Devices	Total Volume (yd ³)	Length of Fence (ft)	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)
Basin 1*	1990.73	-	-	-	-	-	-	-	-	-
Sub-Basin 1A	0.47	0.08	31.49	34.85	1	1.04	172.00	28.81	2	5.00
Sub-Basin 1B	0.32	0.08	21.44	27.66	1	1.04	144.00	24.12	1	2.50
Sub-Basin 1C	0.46	0.03	30.82	31.17	1	1.04	150.00	25.13	2	5.00
Sub-Basin 1D	0.27	0.02	18.09	32.17	1	1.04	156.00	26.13	2	5.00
Sub-Basin 1E*	1987.30	-	-	-	-	-	-	-	-	-
TOTAL DISTURBED AREA (AC)=	0.21	* Note: Disturbed Area, Required Sediment Storage and Total Storage Volume per BMP is contained within Sub-Basins 1A through 1D								

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPs:

No alternative or additional BMPs will be used on this project.

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A.12-7-1, are impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

State-Water ID# or Name	Location of Buffered Streams and State Waters**			Stream Type (Warm/Cold Water)*	Buffer Variance Required? (Yes/No)
	Roadway Alignment	Begin Station and Offset	End Station and Offset		
NANCY CREEK TRIBUTARY	WEST NANCY CREEK DRIVE	STA 103+55.88, 32.12' LT	STA 104+37.74, 26.42' LT	Warm	No
		STA 103+54.96, 32.15' RT	STA 104+23.97, 32.09' RT		

The contractor is allowed to replace the existing bridge, stabilize the stream banks, and construct slopes on both sides.

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.

**Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets

DESCRIPTION OF CONSTRUCTION ACTIVITY

The project consists of the emergency replacement of an existing bridge on West Nancy Creek Drive in DeKalb County. The existing bridge is closed to traffic. Proposed is a new bridge that will be constructed on the existing alignment. The bridge typical section consists of two 11-foot lanes with a 2-foot gutter and sidewalk on both sides. Design speed of the project will be 25 mph. Traffic will be maintained on an off-site detour.

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Brookhaven
GEORGIA



Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD • BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770) 424-1668

N.T.S.

REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		ESPCC GENERAL NOTES	
		WEST NANCY CREEK DRIVE	
		BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	51-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN 	
Fi-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL 	
		POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

REVISION DATES

3/2/2017		

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

52-0001



NO SCALE

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASHPAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

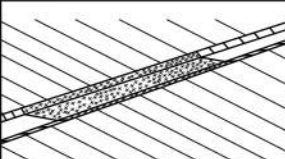

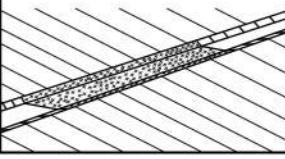

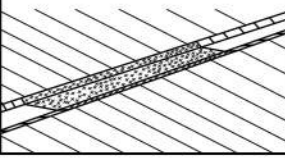

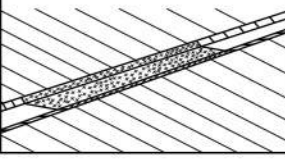

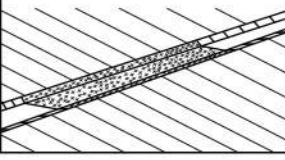
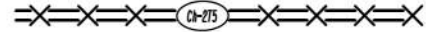
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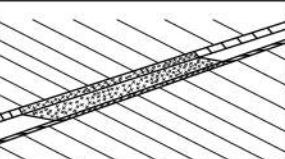
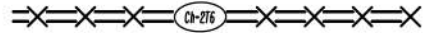
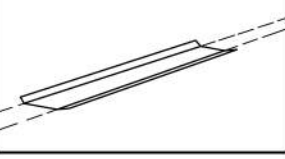

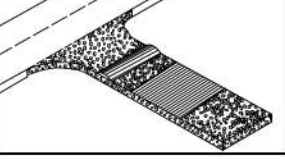

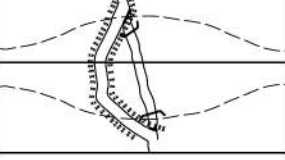

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
11/28/2018		SHEET 2 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163,800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



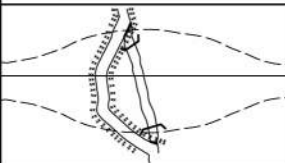

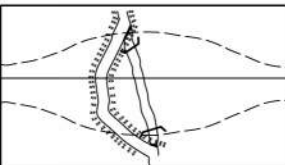

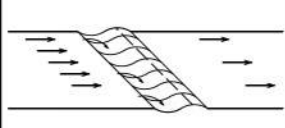
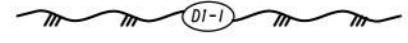
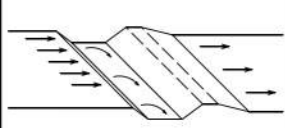
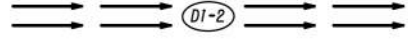

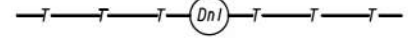
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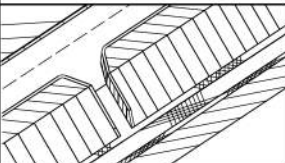
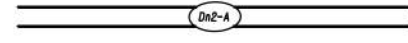
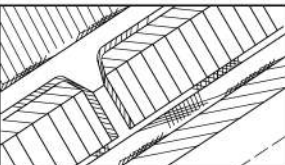
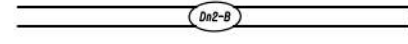
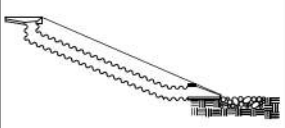
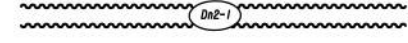
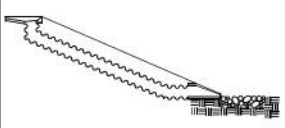
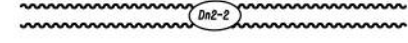
REVISION DATES	
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EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 3 OF 7

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52-0003

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.
	LINE CODE 		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.
	LINE CODE 		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
DI-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS *Dn1* OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
DI-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP.
	LINE CODE 		RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10".
	LINE CODE 		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

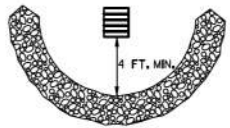







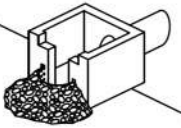

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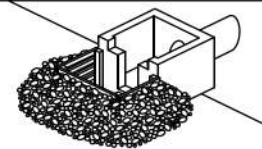







- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 4 OF 7	
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
	SYMBOL 		
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
	SYMBOL 		
	FRONT VIEW		
SdI-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE 		
SdI-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE 		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

REVISION DATES	
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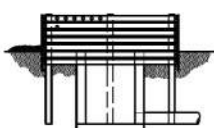

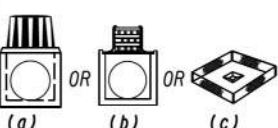

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

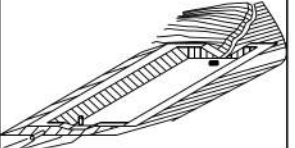
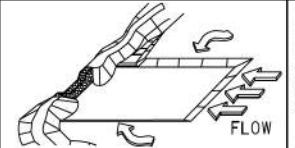
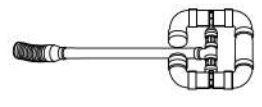
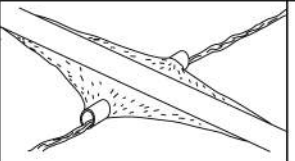
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
		LINE CODE * * * Sd1-BB * * *	
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
		SYMBOL Sd2-B	
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
		SYMBOL Sd2-Bg	
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
		SYMBOL Sd2-F	
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
		SYMBOL Sd2-G	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
		SYMBOL Sd3	
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
		SYMBOL Sd4-C	
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
		SYMBOL Sk	
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
		SYMBOL Sr	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



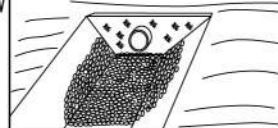
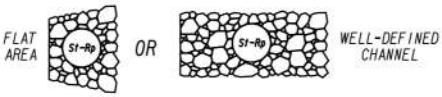

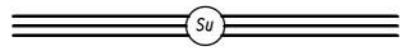
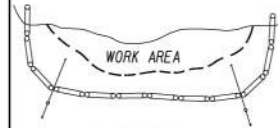

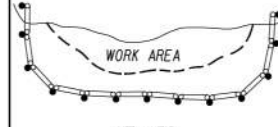
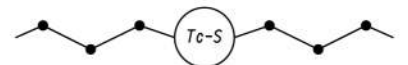
REVISION DATES	
3/2/2017	
11/28/2018	

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NO SCALE

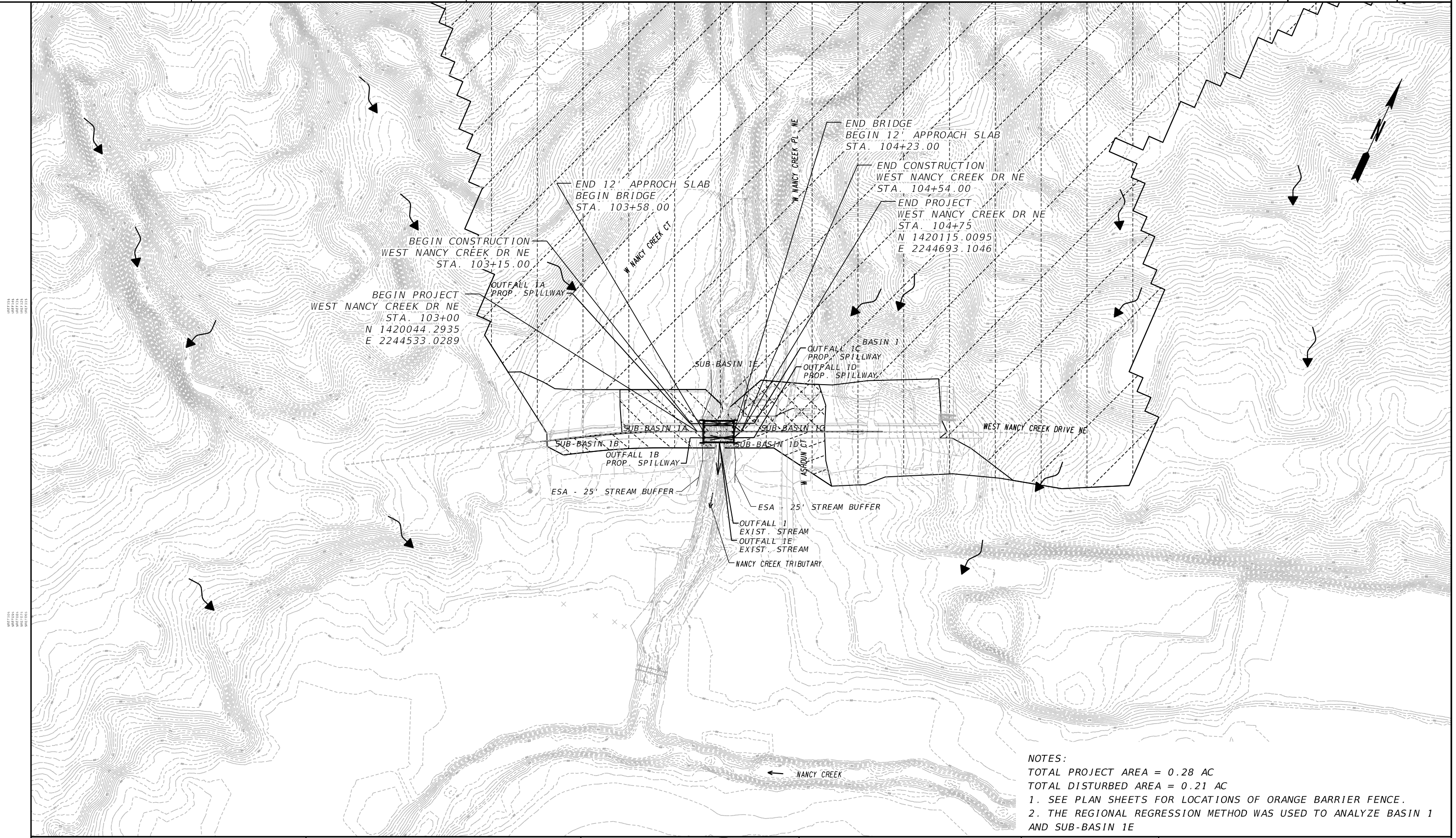
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
		SYMBOL 	
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 ≤ 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 ≤ 0.7 FEET. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
		PATTERN 	
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION, CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE 	
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
		LINE CODE 	
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
		LINE CODE 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

	NO SCALE	REVISION DATES	EROSION CONTROL LEGEND
		UNIFORM CODE SHEET	SHEET 7 OF 7
		CHECKED: D. EAGLETON DATE: 01/01/16	DRAWING No.
		BACKCHECKED: DATE:	52-0007
		CORRECTED: DATE:	
		VERIFIED: DATE:	



NOTES:
 TOTAL PROJECT AREA = 0.28 AC
 TOTAL DISTURBED AREA = 0.21 AC
 1. SEE PLAN SHEETS FOR LOCATIONS OF ORANGE BARRIER FENCE.
 2. THE REGIONAL REGRESSION METHOD WAS USED TO ANALYZE BASIN 1 AND SUB-BASIN 1E



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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		EROSION CONTROL DRAINAGE AREA MAP	
		WEST NANCY CREEK DRIVE BRIDGE REPLACMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	53-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

BASIN NO.	OUTFALL LOCATION AND DESCRIPTION				DISTURBED AREA	CONTRIBUTING AREA (ac)	CONTRIBUTING BASINS	PRE - RUNOFF COEFFICIENT			PRE - RUNOFF (CFS)			PRE - HEADWATER ELEV.		PRE - VELOCITY (FPS)		POST - RUNOFF COEFFICIENT			POST - RUNOFF (CFS)			POST - HEADWATER ELEV.		POST - VELOCITY (FPS)	
	ROAD	STATION	OFFSET	OUTFALL DESCRIPTION				C ₂₅	C ₅₀	C ₁₀₀	(cfs) Q ₂₅	(cfs) Q ₅₀	(cfs) Q ₁₀₀	(ft) HW ₅₀	(ft) HW ₁₀₀	(fps) V ₅₀	(fps) V ₁₀₀	C ₂₅	C ₅₀	C ₁₀₀	(cfs) Q ₂₅	(cfs) Q ₅₀	(cfs) Q ₁₀₀	(ft) HW ₅₀	(ft) HW ₁₀₀	(fps) V ₅₀	(fps) V ₁₀₀
1	West Nancy Creek Drive NE	103+91	17' RT	Exist. Stream	0.21	1990.73	1A, 1B, 1C, 1D, 1E	N/A	N/A	N/A	1070.00	1310.00	1520.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070.00	1310.00	1520.00	N/A	N/A	N/A	N/A

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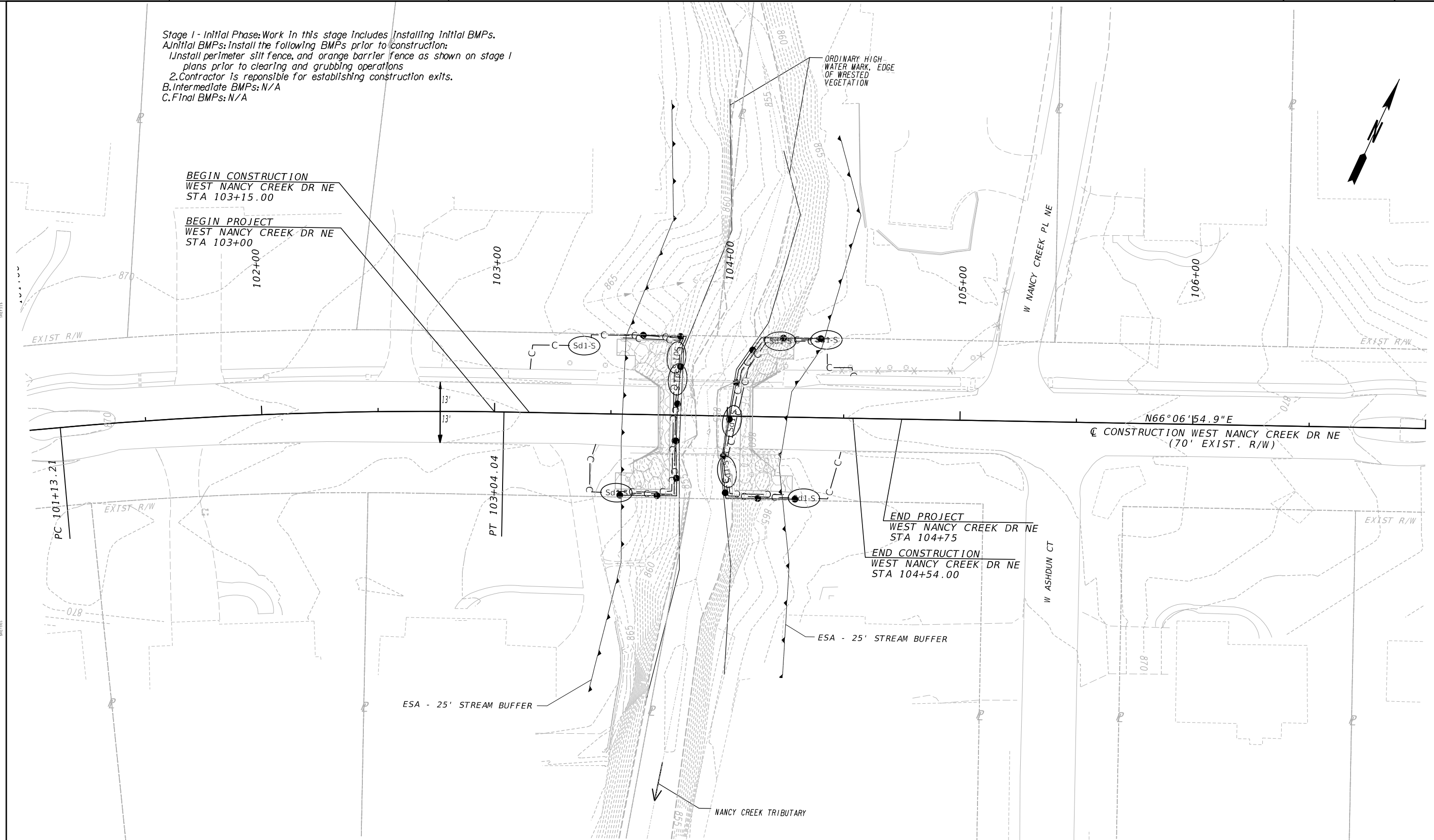
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REVISION DATES			CITY OF BROOKHAVEN PUBLIC WORKS		
			EROSION CONTROL DRAINAGE AREA MAP		
			WEST NANCY CREEK DRIVE		
			BRIDGE REPLACEMENT		
CHECKED:	DATE:		DRAWING No.		
BACKCHECKED:	DATE:		53-0002		
CORRECTED:	DATE:				
VERIFIED:	DATE:				

Stage I - Initial Phase: Work in this stage includes installing Initial BMPs.
 A. Initial BMPs: install the following BMPs prior to construction:
 1. Install perimeter silt fence, and orange barrier fence as shown on stage I plans prior to clearing and grubbing operations
 2. Contractor is responsible for establishing construction exits.
 B. Intermediate BMPs: N/A
 C. Final BMPs: N/A

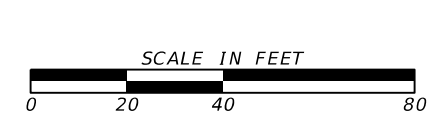


PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
EXISTING LIMIT OF ACCESS	-----o-----
REQ'D LIMIT OF ACCESS	-----o-----
EXISTING LIMIT OF ACCESS & R/W	----- -----
REQ'D LIMIT OF ACCESS & R/W	----- -----
ORANGE BARRIER FENCE	●-----●
ESA - ENV. SENSITIVE AREA	-----v-----

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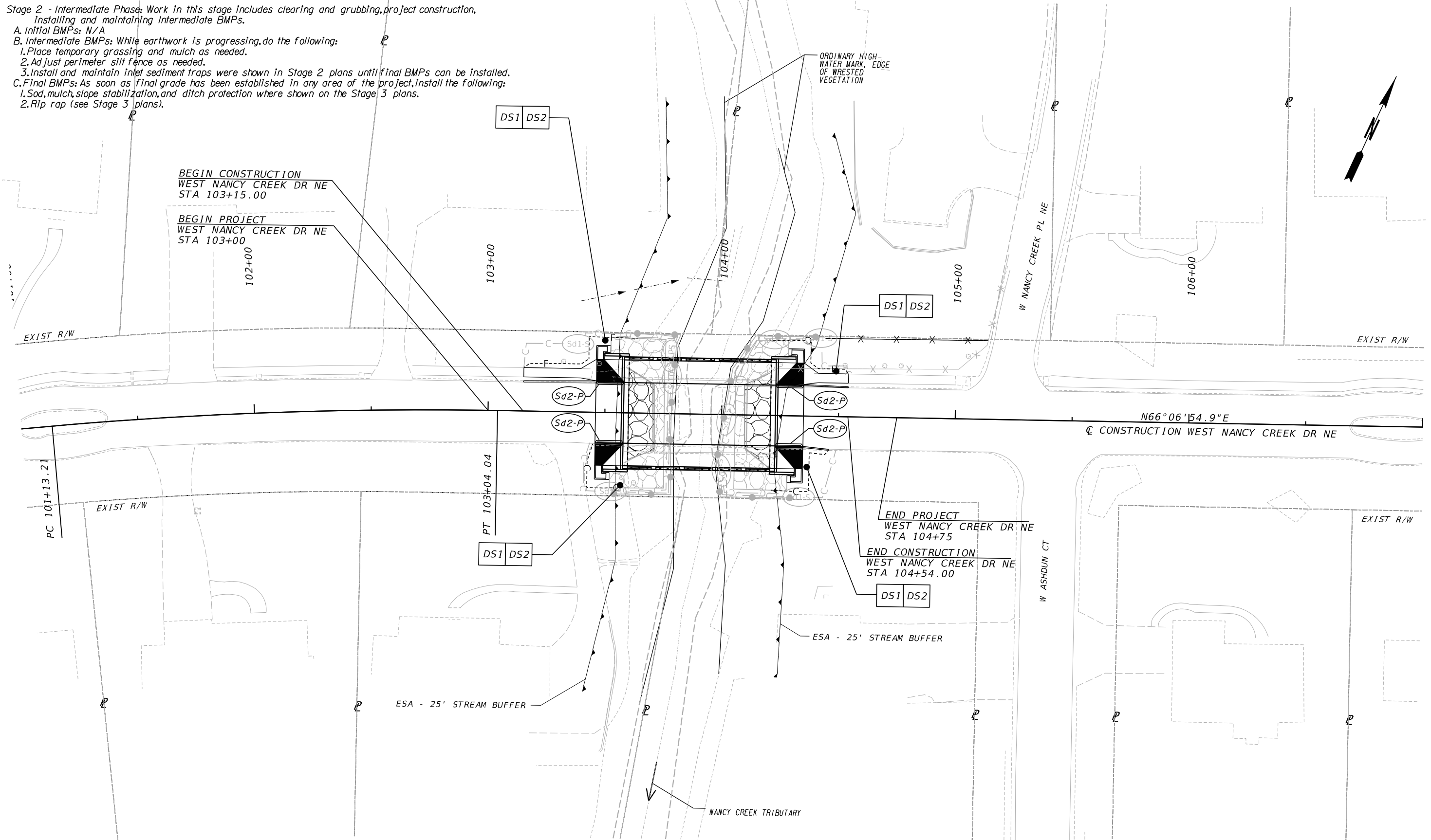


REVISION DATES	

CITY OF BROOKHAVEN PUBLIC WORKS			
BMP LOCATION DETAILS - INITIAL PHASE STAGE I - INTERMEDIATE PHASE WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-1001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Stage 2 - Intermediate Phase: Work in this stage includes clearing and grubbing, project construction, installing and maintaining intermediate BMPs.

- A. Initial BMPs: N/A
- B. Intermediate BMPs: While earthwork is progressing, do the following:
 1. Place temporary grassing and mulch as needed.
 2. Adjust perimeter silt fence as needed.
 3. Install and maintain inlet sediment traps where shown in Stage 2 plans until final BMPs can be installed.
- C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
 1. Sod, mulch, slope stabilization, and ditch protection where shown on the Stage 3 plans.
 2. Rip rap (see Stage 3 plans).

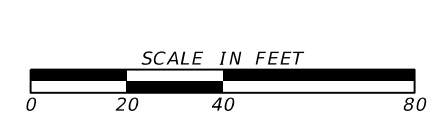


PROPERTY AND EXISTING R/W LINE	-----P-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨▨▨▨
EASEMENT FOR CONSTR OF SLOPES	▩▩▩▩
EASEMENT FOR CONSTR OF DRIVES	▣▣▣▣

BEGIN LIMIT OF ACCESS.....BLA	-----
END LIMIT OF ACCESS.....ELA	-----
EXISTING LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
EXISTING LIMIT OF ACCESS & R/W	--- --- ---
REQ'D LIMIT OF ACCESS & R/W	--- --- ---
ORANGE BARRIER FENCE	●●
ESA - ENV. SENSITIVE AREA	-----

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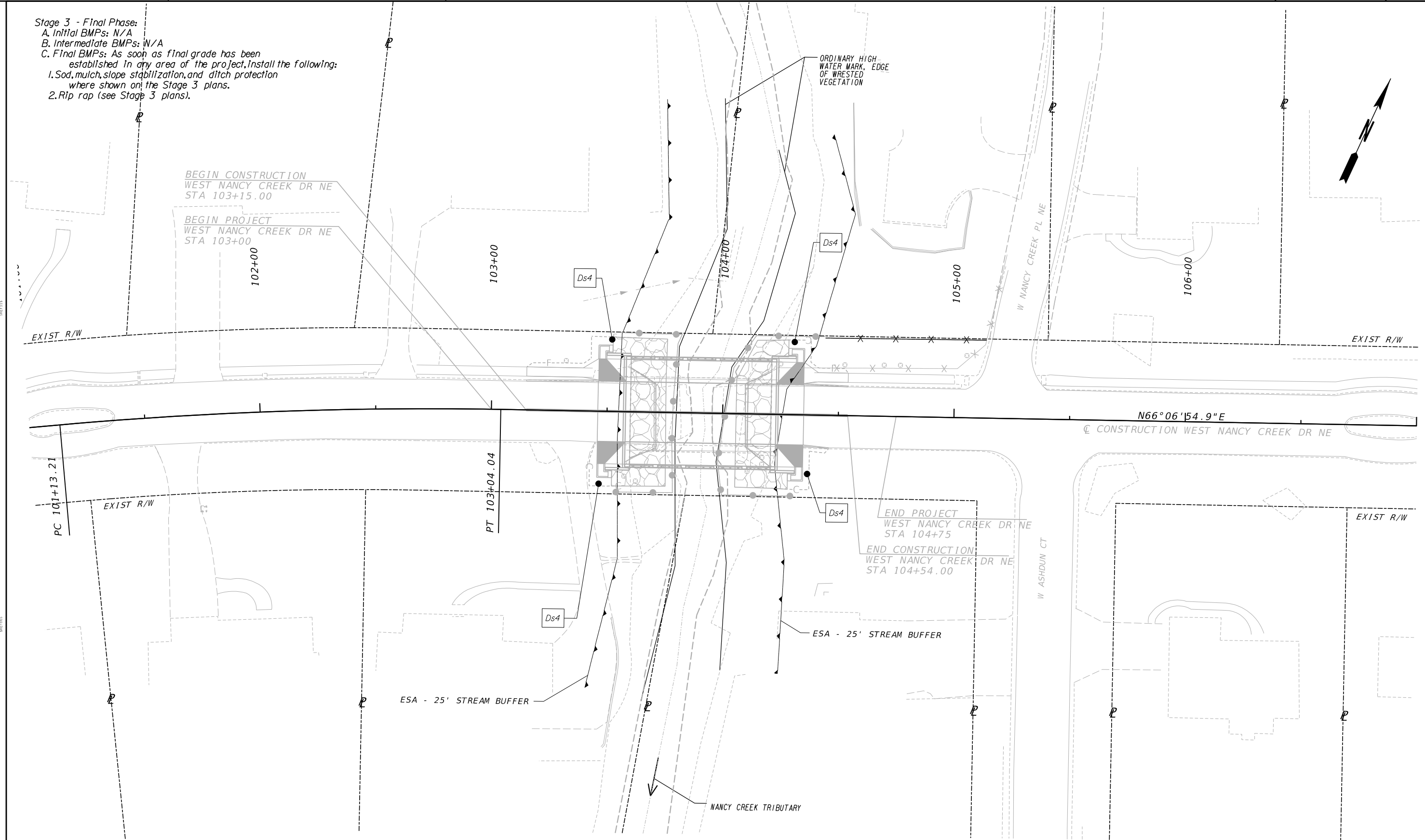
REVISION DATES	

CITY OF BROOKHAVEN PUBLIC WORKS

BMP LOCATION DETAILS
STAGE 2 - INTERMEDIATE PHASE
WEST NANCY CREEK DRIVE
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No. 54-2001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Stage 3 - Final Phase:
A. Initial BMPs: N/A
B. Intermediate BMPs: W/A
C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
1. Sod, mulch, slope stabilization, and ditch protection where shown on the Stage 3 plans.
2. Rip rap (see Stage 3 plans).

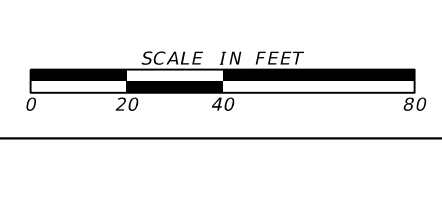


PROPERTY AND EXISTING R/W LINE	-----P-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	//////
EASEMENT FOR CONSTR OF SLOPES	//////
EASEMENT FOR CONSTR OF DRIVES	XXXXXX

BEGIN LIMIT OF ACCESS.....BLA	-----
END LIMIT OF ACCESS.....ELA	-----
EXISTING LIMIT OF ACCESS	-----
REQ'D LIMIT OF ACCESS	-----
EXISTING LIMIT OF ACCESS & R/W	-----
REQ'D LIMIT OF ACCESS & R/W	-----
ORANGE BARRIER FENCE	●●●●
ESA - ENV. SENSITIVE AREA	-----

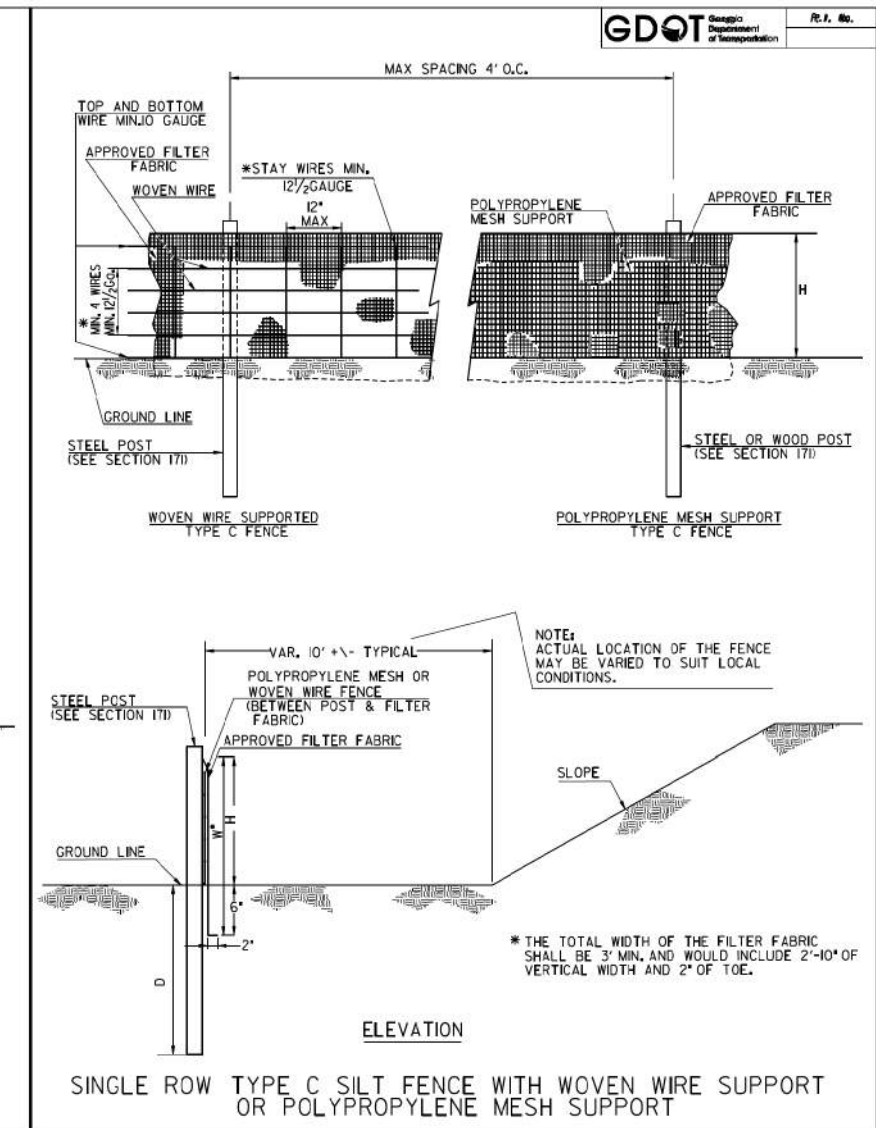
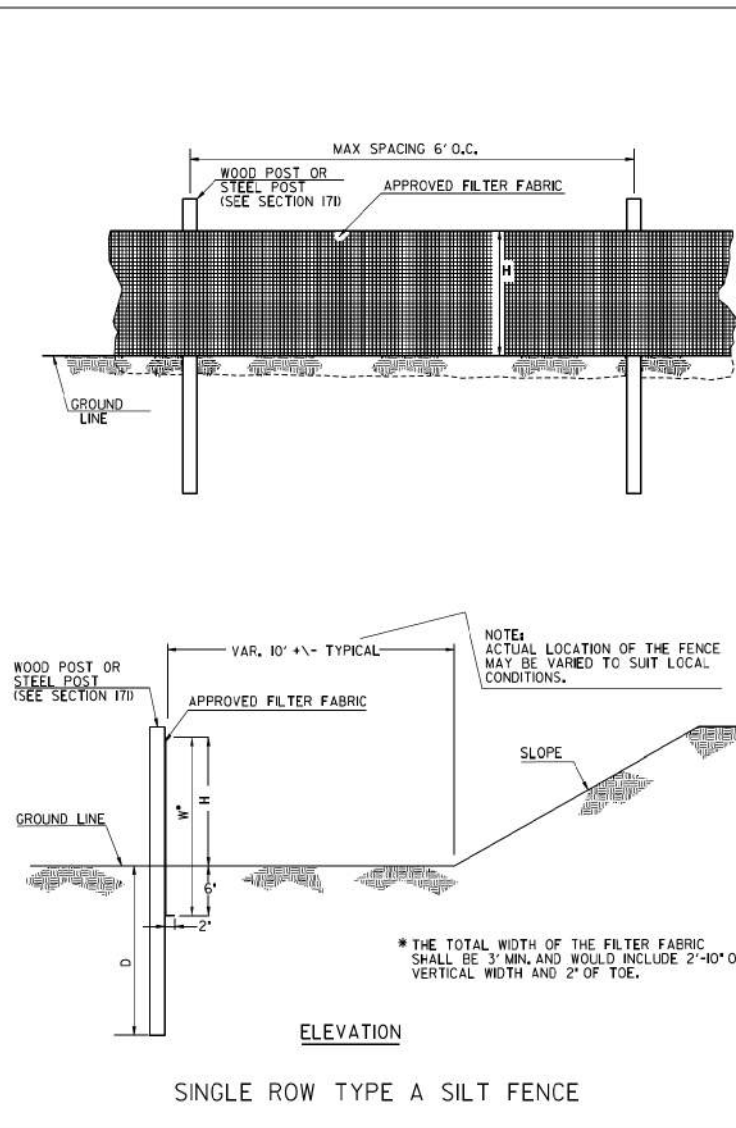
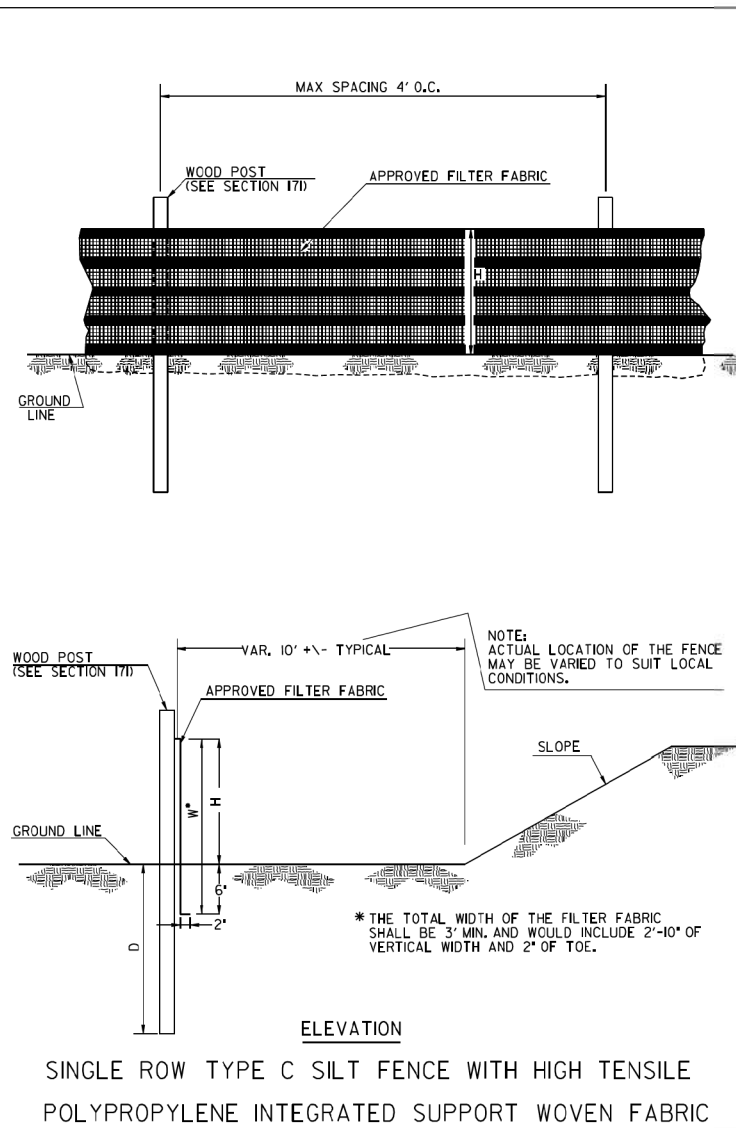
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REVISION DATES	

CITY OF BROOKHAVEN PUBLIC WORKS			
BMP LOCATION DETAILS - FINAL PHASE			
STAGE 3 - FINAL PHASE			
WEST NANCY CREEK DRIVE			
BRIDGE REPLACEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-3001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



FENCE TYPE	POST LENGTH	H	D	W*	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
2. SEE SECTION I7I FOR PLACEMENT OF NAILS OR STAPLES FOR TYPE A AND TYPE C FENCES.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES, THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION I7I FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE OPL-36 FOR A LIST OF APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

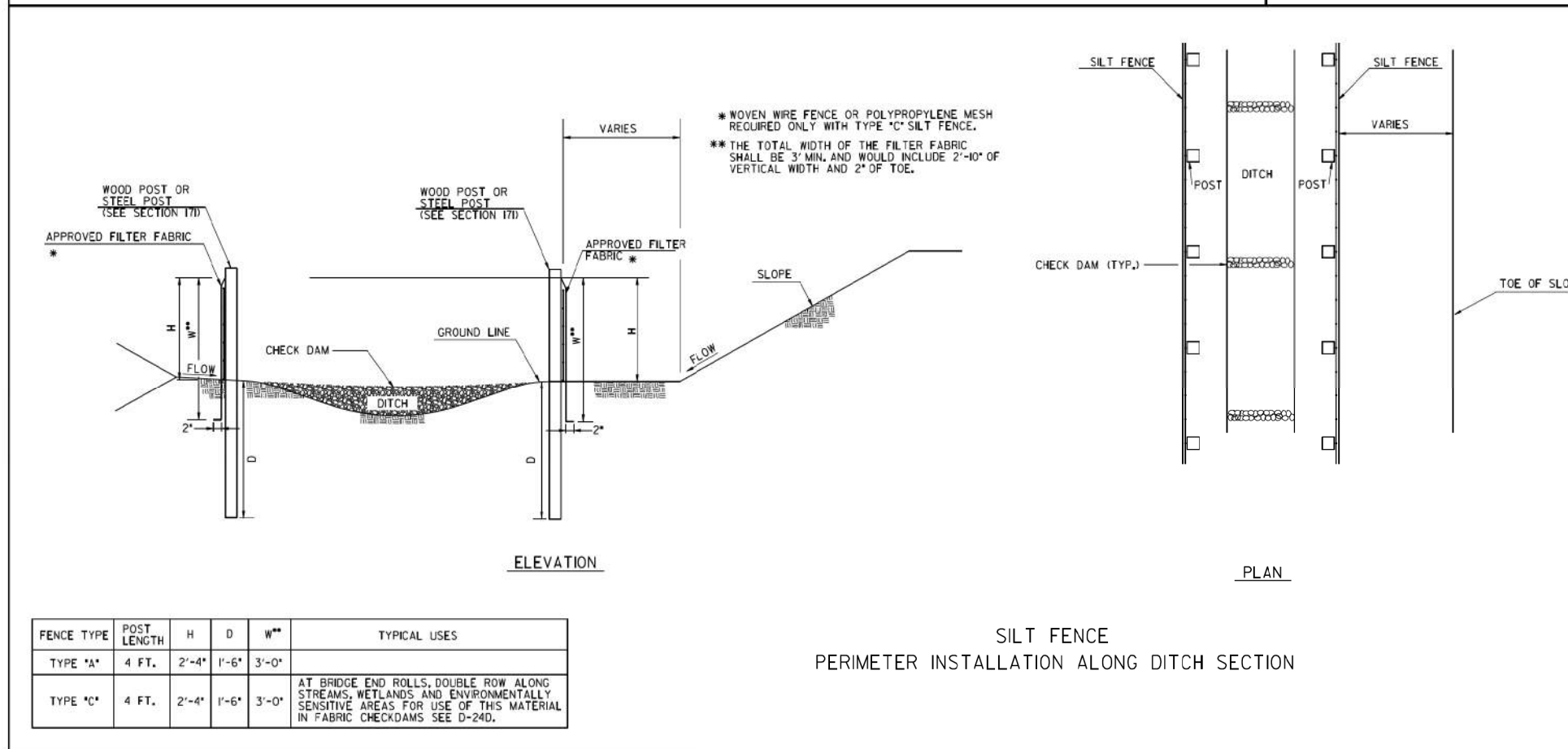
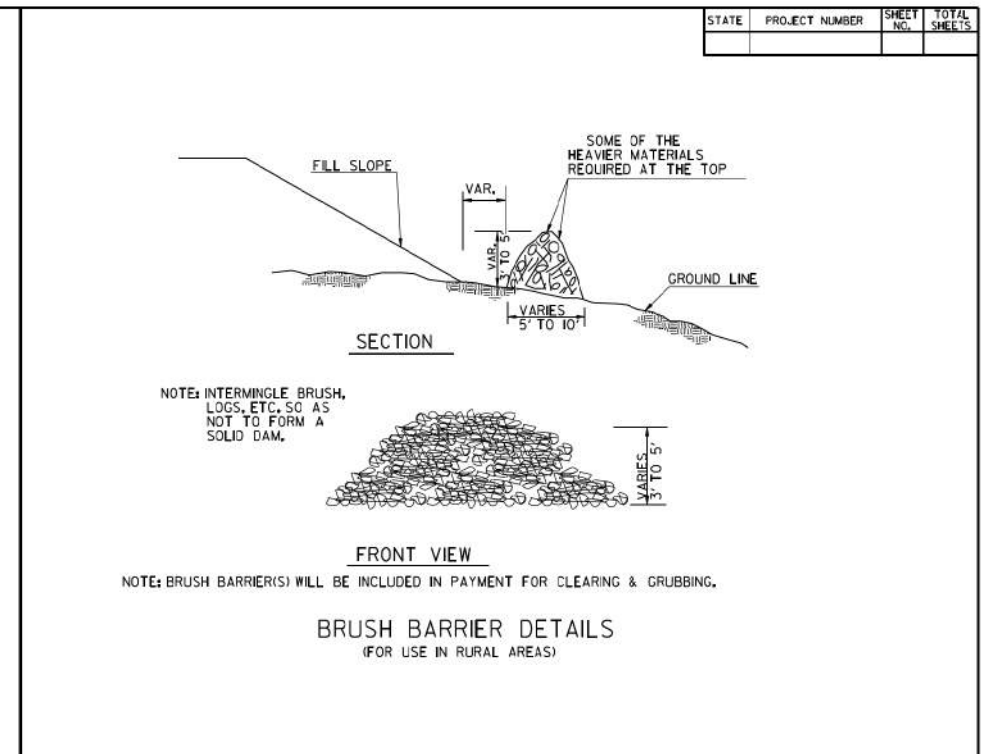
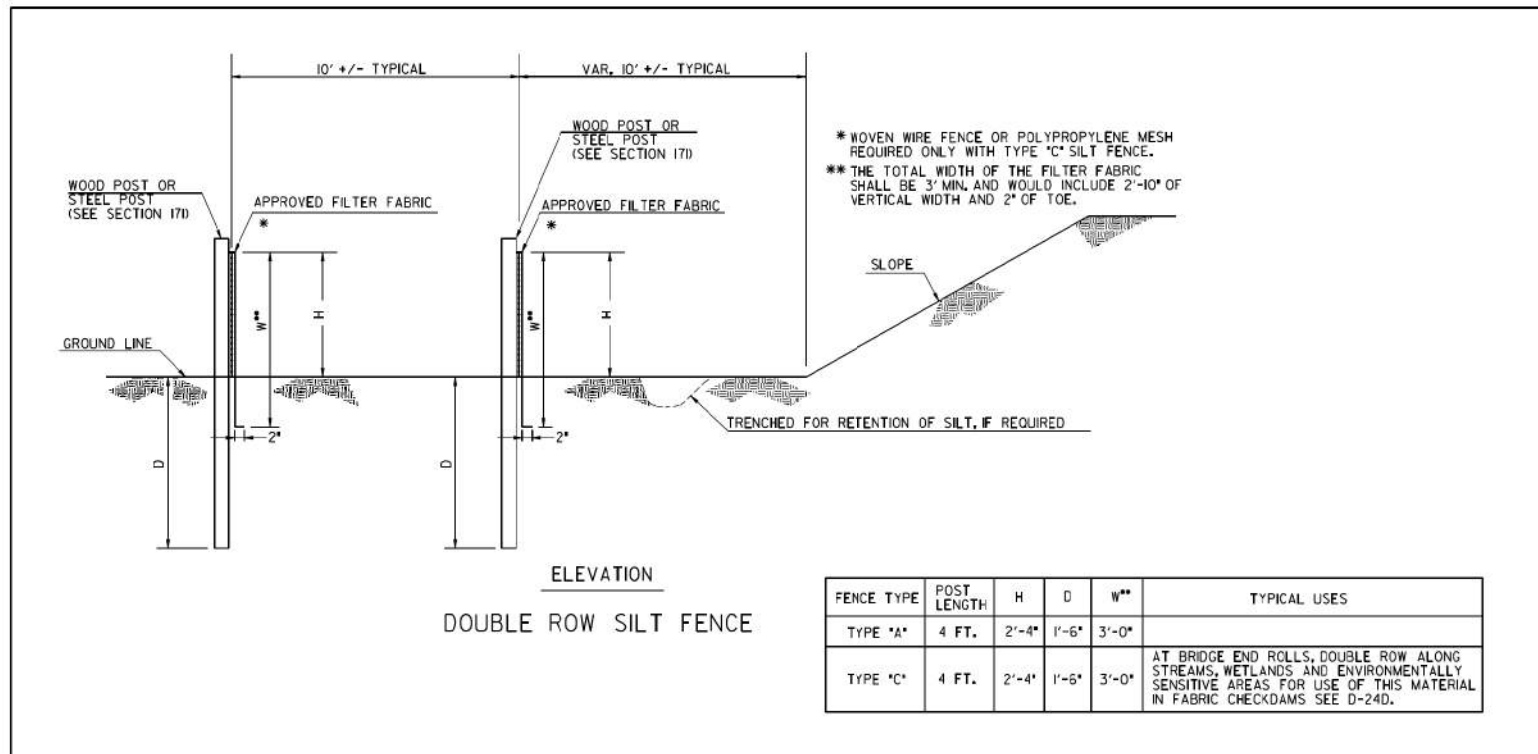
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAIL	
TEMPORARY SILT FENCE	
ADDED HIGH TENSILE POLYPROPYLENE INTEGRATED FABRIC	DATE: 09-2022
BY: AL	REVISION
JANUARY 2011	
NO SCALE	
NUMBER D-24A 1 OF 4	



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REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		EROSION CONTROL CONSTRUCTION DETAILS	
		WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



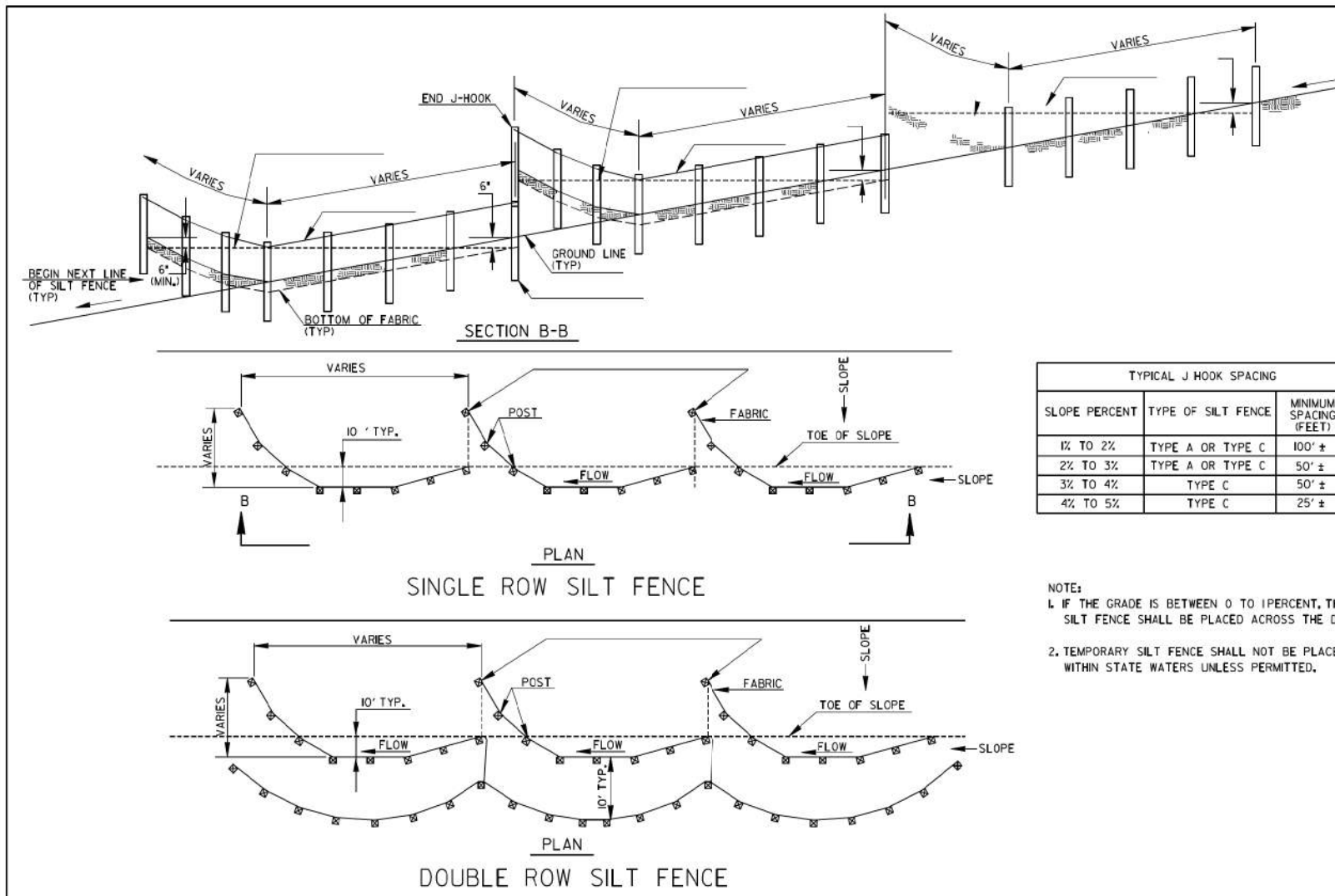
NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

FABRIC WIDTH CLARIFICATION	09-2022	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
			CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER
BAS	BY	REV. AND REDRAWN JAN. 2011 NO SCALE	NUMBER D-24B (SHEET 2 OF 4)



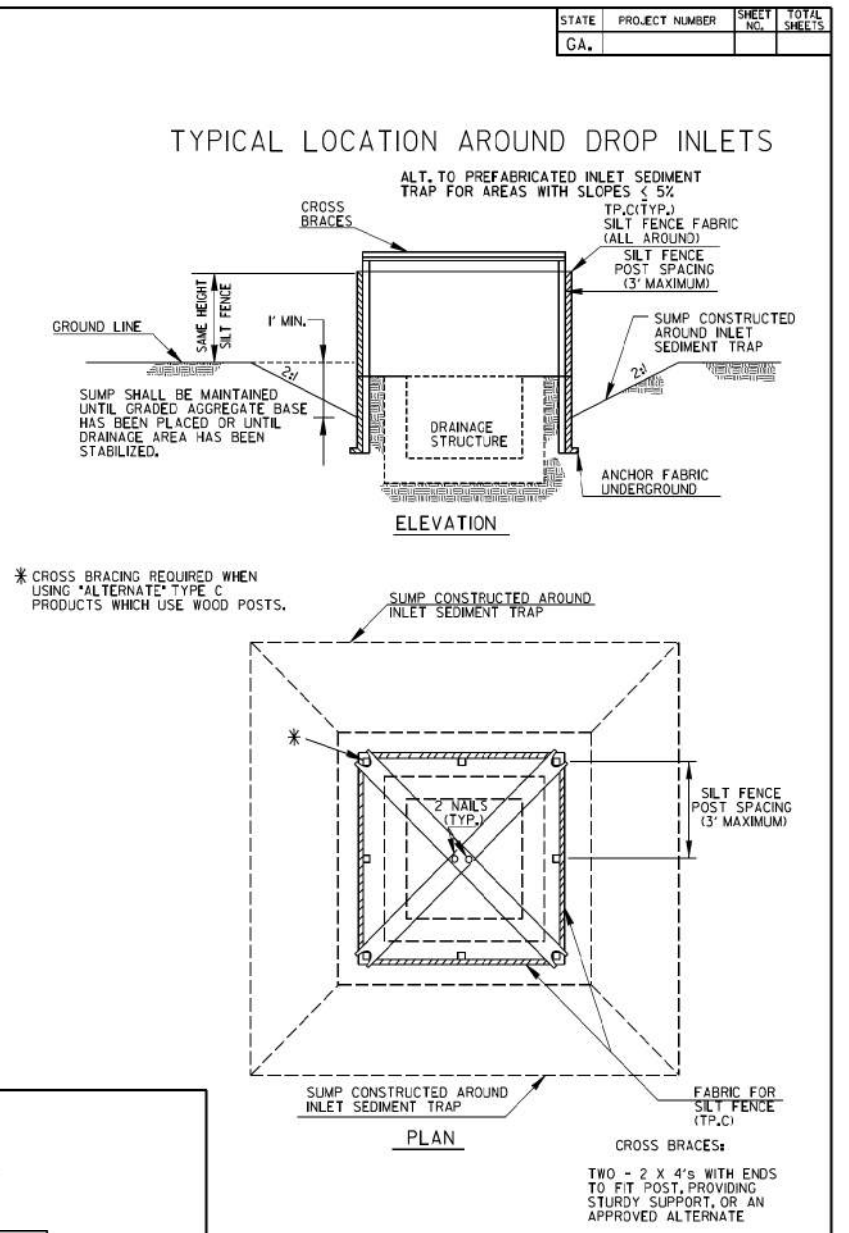
REVISION DATES		CITY OF BROOKHAVEN PUBLIC WORKS	
		EROSION CONTROL CONSTRUCTION DETAILS	
		WEST NANCY CREEK DRIVE BRIDGE REPLACEMENT	
CHECKED:	DATE:	DRAWING No.	
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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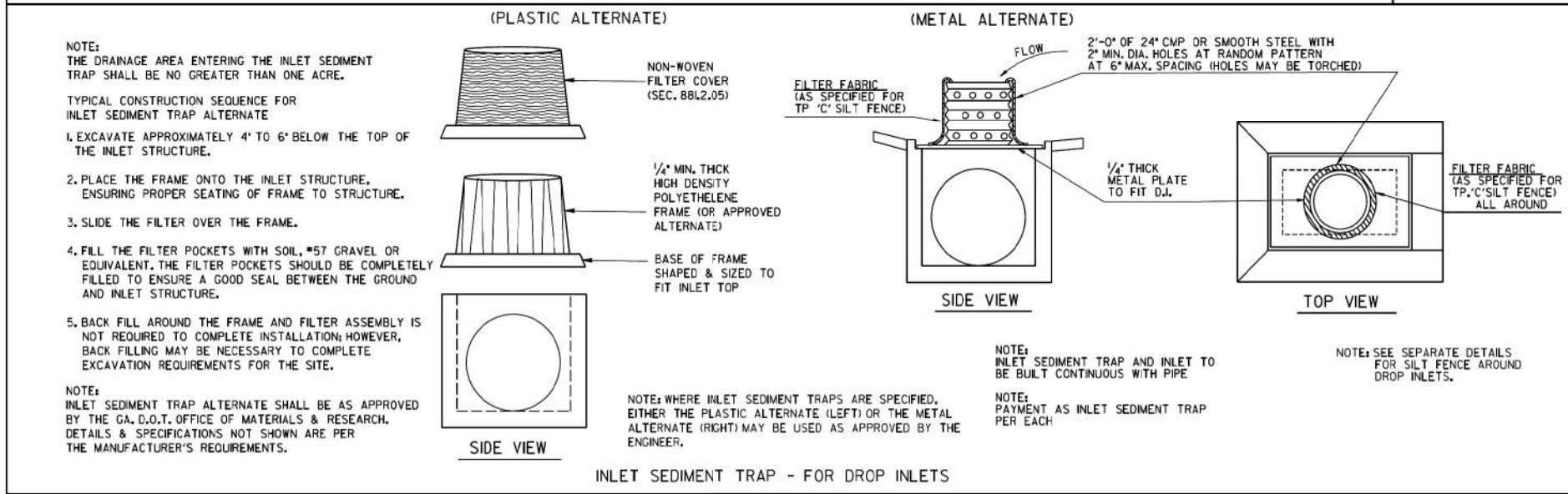


SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A OR TYPE C	100' ±
2% TO 3%	TYPE A OR TYPE C	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.



* CROSS BRACING REQUIRED WHEN USING ALTERNATE TYPE C PRODUCTS WHICH USE WOOD POSTS.



NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.
TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE
1. EXCAVATE APPROXIMATELY 4' TO 6' BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.
NOTE: INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE.
NOTE: PAYMENT AS INLET SEDIMENT TRAP PER EACH.
NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.
NOTE: PAYMENT AS INLET SEDIMENT TRAP PER EACH.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
DATE: 09-2022	NUMBER: D-24C (SHEET 3 OF 4)
BY: [Signature]	NO SCALE

REVISION	DATE	DESCRIPTION

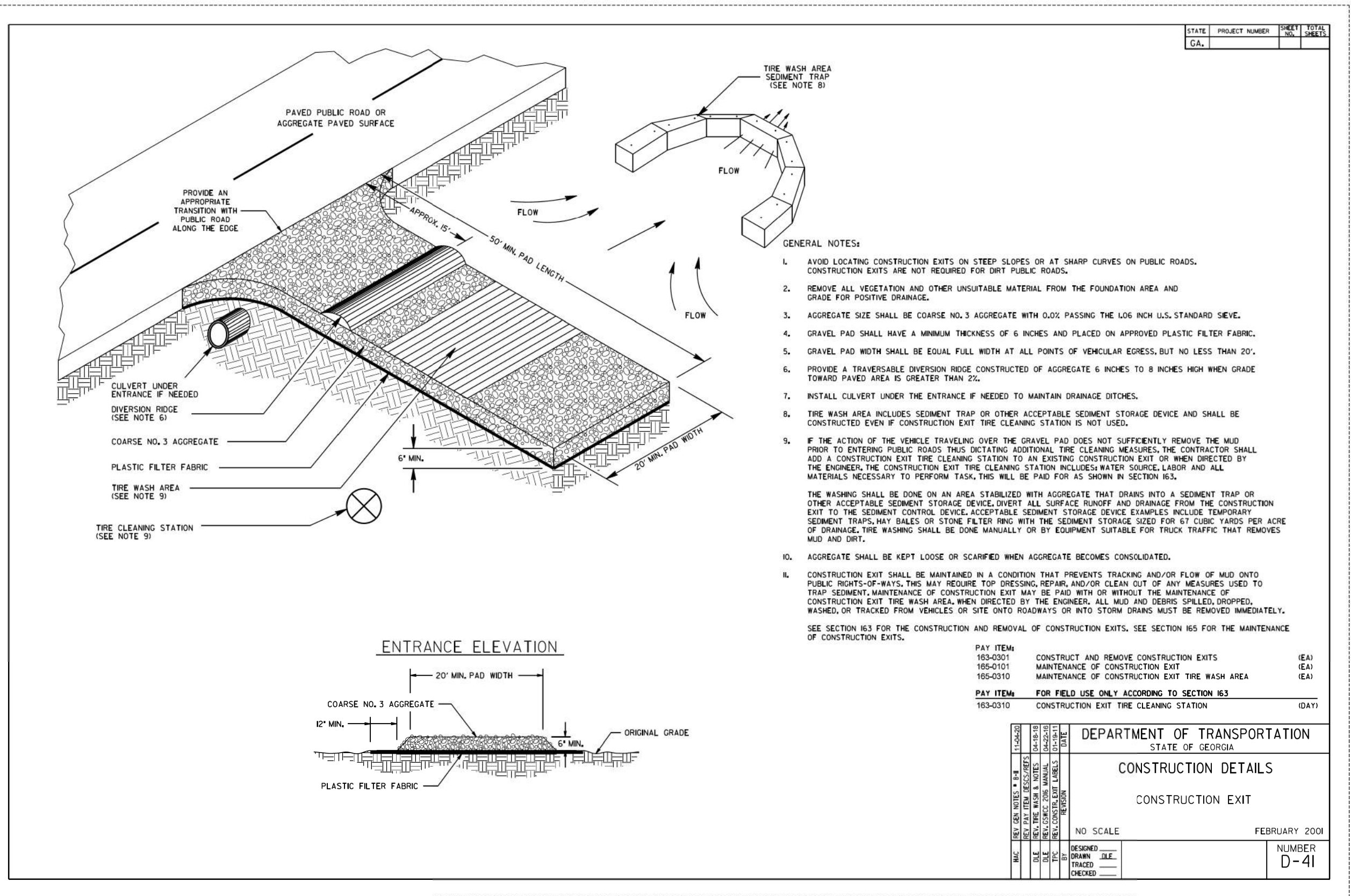
CITY OF BROOKHAVEN PUBLIC WORKS
EROSION CONTROL CONSTRUCTION DETAILS
WEST NANCY CREEK DRIVE
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Brookhaven
GEORGIA

Heath & Lineback Engineers
INCORPORATED
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MARIETTA, GEORGIA 30066-5393
(770) 424-1668

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

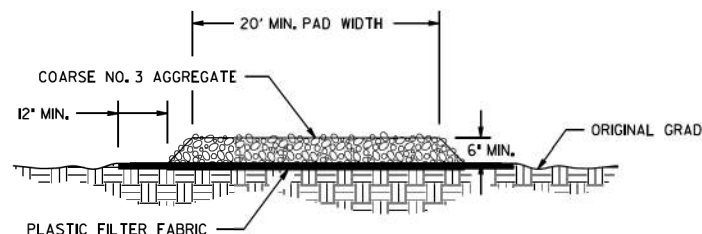


GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
 5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
 9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS, THIS MAY REQUIRE ADDITIONAL TIRE CLEANING MEASURES. THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK, THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.
 10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
 11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER, ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:			
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS		(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT		(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA		(EA)
PAY ITEM:	FOR FIELD USE ONLY ACCORDING TO SECTION 163		
163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION		(DAY)

ENTRANCE ELEVATION



11-04-20	REV. GEN. NOTES	B-I	
04-18-18	REV. PAY ITEM DESCS/REFS		
04-22-16	REV. TIRE WASH & NOTES		
04-22-16	REV. GS MCC 2016 MANUAL		
01-10-11	REV. CONSTR. EXIT LABELS		
	REVISION	DATE	

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

CONSTRUCTION DETAILS

CONSTRUCTION EXIT

NO SCALE
FEBRUARY 2001

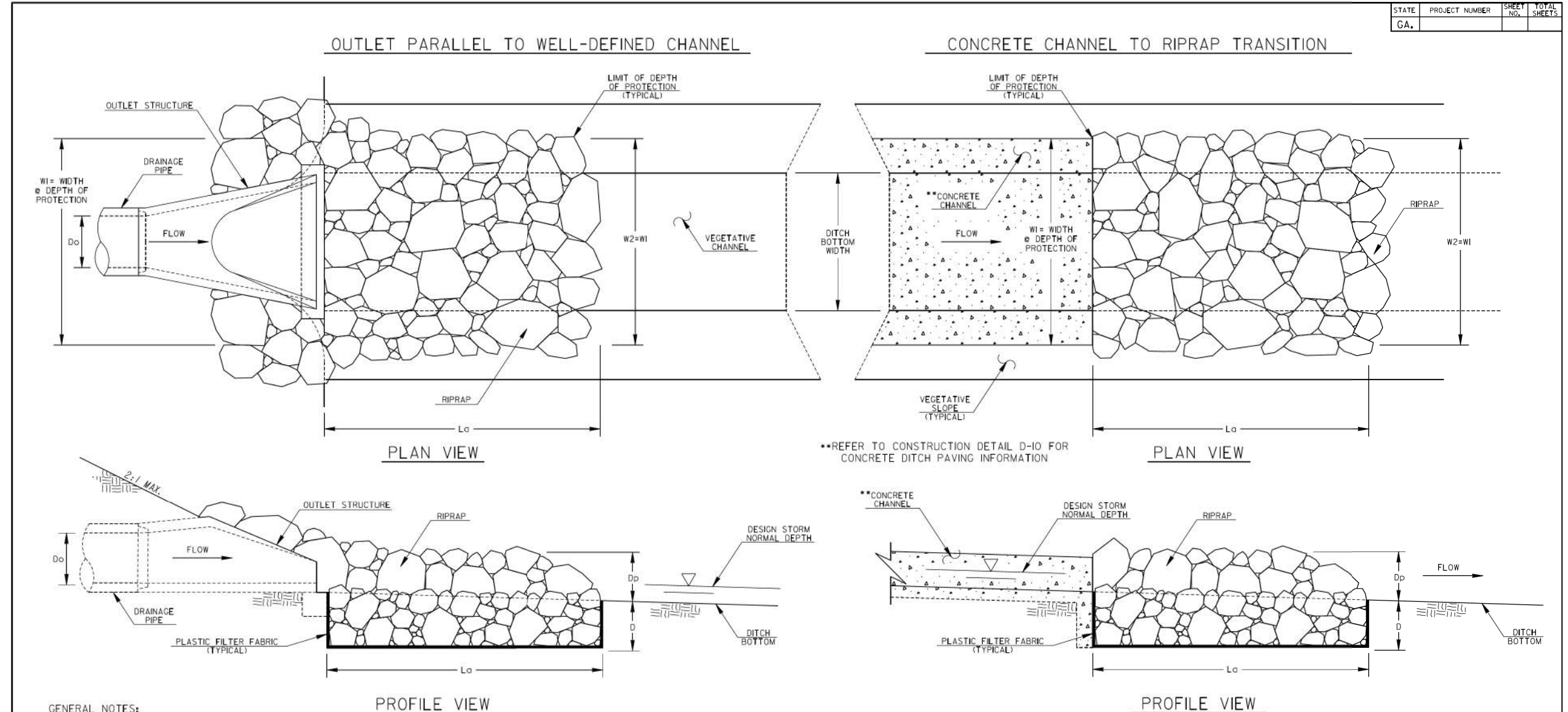
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DRAWN _____	D-41
TRACED _____	
CHECKED _____	

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REVISION	DATE	CITY OF BROOKHAVEN PUBLIC WORKS
		EROSION CONTROL CONSTRUCTION DETAILS
		WEST NANCY CREEK DRIVE
		BRIDGE REPLACEMENT
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION

GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD #20, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (D₀), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (TW), APRON LENGTH (L₀), APRON WIDTH AT DRAINAGE STRUCTURE (W₁), APRON WIDTH DOWNSTREAM (W₂), AVERAGE STONE DIAMETER (d₅₀), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (D_p) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
- IF THE OUTLET HYDRAULICS REQUIRE A d₅₀ < 0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d₅₀ < 1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d₅₀ > 1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

- D₀ = PIPE DIAMETER
- Q = DESIGN STORM FLOW RATE
- V = DESIGN STORM VELOCITY
- T_w = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
- L₀ = APRON LENGTH
- W₁ = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
- W₂ = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
- d₅₀ = AVERAGE STONE DIAMETER
- D = INSTALLATION DEPTH
- D_p = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d ₅₀ (FT)	MIN. DEPTH "D" (IN)
1	≤ 1.20	36
3	≤ 0.67	18

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS	
RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)	
NO SCALE	4-22-2016
DESIGNED BY _____	NUMBER D-55B
DRAWN BY _____	
CHECKED BY _____	

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