Goodwyn Mills Cawood
11 N. Water Street, Suite 19290
Mobile, Alabama 36602
T 251.460.4006

TRANSMITTAL COVER SHEET

DATE: **JANUARY 15, 2026**

TO: **ALL CONTRACTORS**

FROM: **ASHLEY NOBLES**

PROJECT: **SANITARY SEWER UTILITY RELOCATION @ SR-14 FROM 0.5 WEST OF CR-3 TO CR-153**
CITY OF MILLBROOK
ALDOT PROJECT NO: STPAA-0014(541)
GMC PROJECT NO. CMGM220057

RE: **ADDENDUM #1**

PLEASE COMPLETE BELOW AND RETURN IMMEDIATELY.

Email: ashely.nobles@gmcnetwork.com

I, the undersigned, hereby acknowledge receipt of this Addendum #1.

_____ _____
Authorized Representative of Contractor Date

_____ _____
Company Name Telephone

_____
Contractor's License Number (if applicable)

ADDENDUM NUMBER 1

SANITARY SEWER UTILITY RELOCATION @ SR-14 FROM 0.5 MILES WEST OF CR-3 TO CR-153

FOR

CITY OF MILLBROOK

ALDOT PROJECT NO: STPAA-00147(541)

GMC PROJECT NO. CMGM220057

1. Revisions to Project Manual

1.1 The following revisions are hereby added as Addendum No. 1 to the referenced Project Manual and Plans and shall be considered when preparing bids.

2. Plan Revision

2.1 Attached is a revised plan set.

3. Acknowledgement of Receipt

3.1 Receipt of Addendum No. 1 shall be acknowledged in two ways:

3.1.1 Note on (EJCDC C-410) page 3 of Bid Form – Bidder acknowledges receipt of "Addendum No. 1" and date of "January 15, 2026".

AND

3.1.2 EMAIL the signed transmittal sheet to ashley.morris@gmcnetwork.com to confirm the addendum has been received and is legible.

4. Conclusion

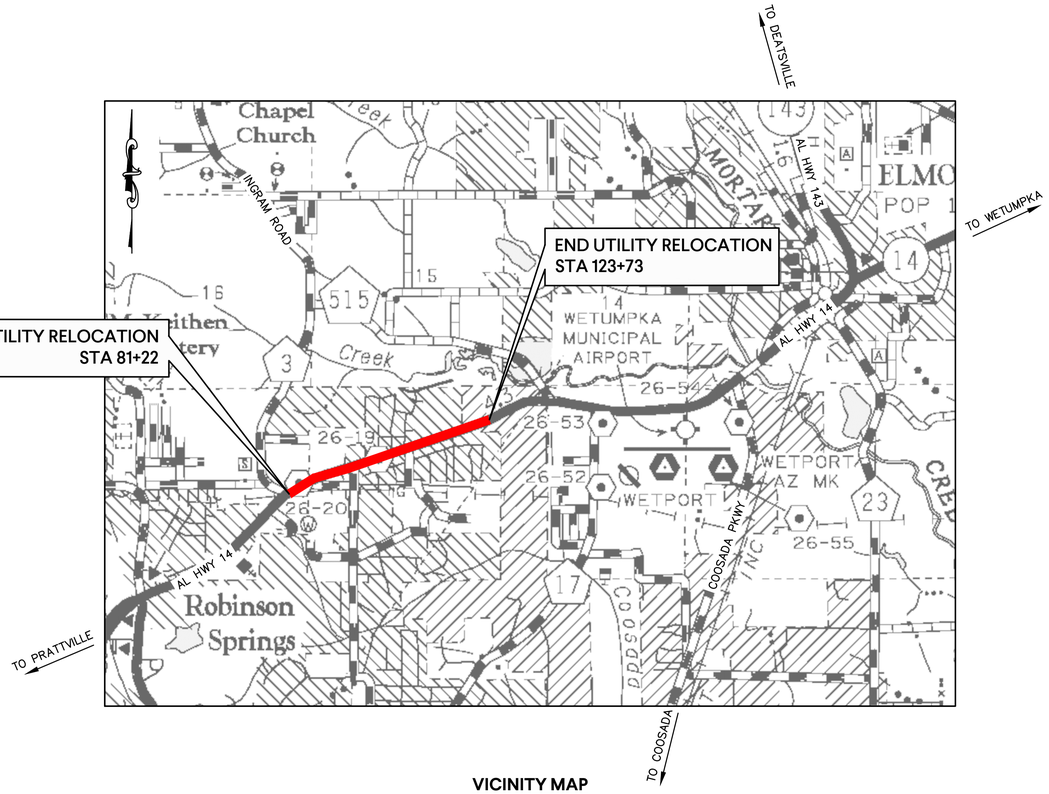
4.1 This is the end of Addendum Number 1, dated Thursday, January 15, 2026.

SANITARY SEWER UTILITY RELOCATION @ SR-14 FROM 0.5 MILES WEST OF CR-3 TO CR-153

GMC PROJECT No. CMGM220057
ALDOT PROJECT No. STPAA-0014(541)

CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

LOCATION MAP
STATE OF ALABAMA



VICINITY MAP
NOT TO SCALE

DRAWING INDEX		
SHT #	SEQ. #	SHEET TITLE
GENERAL		
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16	C-905	TRAFFIC CONTROL DETAILS

SEPTEMBER 2025

BID SET

GMC
2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
GMCNETWORK.COM

ISSUE	DATE
PRELIMINARY	01.31.2025
FINAL	09.01.2025
DRAWN BY:	SWA
DESIGNED BY:	JDL/TWS
CHECKED BY:	JCP

SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER CLINTON PIERCE 3/11/2026 JOSHUA

COVER SHEET

G-001

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
℄	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CY	CUBIC YARD
DIA	DIAMETER
DI	DUCTILE IRON
EA	EACH
EL	ELEVATIONS
EX.	EXISTING
GV	GATE VALVE
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N.T.S.	NOT TO SCALE
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REQ'D	REQUIRED
RJDI	RESTRAINED JOINT DUCTILE IRON
SS	SANITARY SEWER
SHT	SHEET
SPECS	SPECIFICATIONS
SY	SQUARE YARD
TC	TERRA COTTA
TYP	TYPICAL
W/	WITH
W/O	WITHOUT
WM	WATER METER
WV	WATER VALVE

PROJECT NOTES

1. ALL FLUSHING, PRESSURE TESTING AND DISINFECTION OF PRESSURE PIPELINES SHALL BE IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT), OCCUPATIONAL SAFETY & HEALTH ASSOCIATION (OSHA), ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND CITY OF MILLBROOK SPECIFICATIONS AND REGULATIONS. A CHART RECORDING WILL BE REQUIRED FOR PRESSURE TESTING.
2. WATER FOR FLUSHING AND PRESSURE TESTING WILL BE SUPPLIED BY THE OWNER AT NO COST TO THE CONTRACTOR.
3. CITY OF MILLBROOK AND ALDOT REQUIRE A 7 BUSINESS DAY NOTIFICATION PRIOR TO BEGINNING WORK.
4. ALL SEWER LINES SHALL BE INSTALLED TO A DEPTH OF COVER OF NOT LESS THAN 36", EXCEPT WHERE DEEPER COVER IS REQUIRED BY CONFLICTS WITH EXISTING UTILITIES. 48" MINIMUM COVER IS REQUIRED UNDER ROADWAY BORE CROSSINGS.
5. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE AND THE LOCATION OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR EXISTING UTILITIES.
7. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
8. COMBINATIONS OF SILT FENCING, WATTLES, AND OTHER EROSION CONTROL ITEMS SHALL BE USED AS PROJECT CONDITIONS WARRANT TO PREVENT SEDIMENT RUNOFF FROM REACHING CREEKS, STREAMS, AND OTHER SURFACE WATER ADJACENT TO AND WITHIN THE PROJECT AREA IN ACCORDANCE WITH "BEST MANAGEMENT PRACTICES". EROSION CONTROL DEVICES INDICATED ON THE PROJECT PLANS SHALL BE CONSIDERED A MINIMUM TO BE IMPLEMENTED.
9. ALL TRENCHES SHALL BE BACKFILLED, SEEDED, AND MULCHED AT THE END OF EACH DAYS WORK. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED BY ALDOT OR THE ENGINEER. THIS TEMPORARY DIVERSION OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
11. SAFETY PRECAUTIONS INSTITUTED ALONG ALDOT, ELMORE COUNTY, AND CITY OF MILLBROOK RIGHT-OF-WAYS SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY AT ALL TIMES.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO PUBLIC ROADS CAUSED BY HIS ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET WITH COUNTY AND LOCAL OFFICIALS TO AGREE UPON AND RECORD THE CONDITIONS OF THE ROADS BEFORE CONSTRUCTION COMMENCES.
13. SITE SECURITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. THIS PROJECT IS BASED ON A UNIT PRICE CONTRACT. ALL WORK DESCRIBED, SHOWN, REFERENCED, OR OTHERWISE INDICATED IN OR ON THE DRAWINGS, PROPOSAL, ADVERTISEMENT AND SPECIFICATIONS ARE TO BE COMPLETED IN-PLACE AND SERVICEABLE ACCORDING TO THE PLANS, INSTRUCTIONS, SPECIFICATIONS, LINES AND GRADES INDICATED ON THE PLANS AND ALL APPLICABLE STATE, FEDERAL, AND MUNICIPAL CODES AND STANDARDS. INDIVIDUAL ITEMS OF WORK THAT ARE NECESSARY TO COMPLETE THE PROJECT TO THE LINES AND GRADES, WHETHER SHOWN OR DESCRIBED IN THE PLANS AND SPECIFICATIONS, ARE TO BE CONSIDERED INCIDENTAL AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. THE CONTRACTOR IS REQUIRED TO DEVELOP AN AS-BUILT SET OF DRAWINGS AS PROJECT CONSTRUCTION PROGRESSES. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED LINES, VALVES, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES. THE MONTHLY PAY APPLICATIONS WILL NOT BE PROCESSED UNTIL THOSE ASBUILTS ARE SHOWN TO THE FIELD REPRESENTATIVE.
16. THE BIDDER IS EXPECTED TO CAREFULLY EXAMINE THE PLANS, PROPOSAL AND SITE OF THE WORK. THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
17. ALL WORK SHALL MEET OR EXCEED ALDOT AND THE CITY OF MILLBROOK SPECIFICATIONS.
18. THE CONTRACTOR SHALL APPLY SEED AND MULCH PRIOR TO RAIN EVENTS IN DISTURBED AREAS IN ORDER TO MINIMIZE EROSION. DISTURBED AREAS THAT ARE INACTIVE FOR 14 DAYS OR MORE SHALL BE SEEDED AND MULCHED ACCORDING TO ALDOT SPECIFICATIONS.
19. ALL DISTURBED AREAS WILL BE RESODDED OR SEEDED AS DIRECTED BY THE ENGINEER.
20. ALL MECHANICAL JOINT RETAINER GLANDS SHALL BE MEGALUG MANUFACTURED BY EBAA IRON, INC. THESE GLANDS SHALL BE INSTALLED ON ALL FITTINGS.
21. AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.
22. WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON THE RIGHT-OF-WAY. ANY PROPERTY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SOLID WASTE (I.E., WOOD, STUMPS, ETC.) TO BE DISPOSED OF AND MUST BE IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).
24. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. IF PROJECT NECESSITATES A LANE CLOSURE, THE LANE CLOSURE MUST BE MADE PART OF THE PERMIT.
25. ANY ORNAMENTAL VEGETATIVE LANDSCAPING (SHRUBS, FLOWERS, ORNAMENTAL GRASS, ETC.) DISTURBED DURING CONSTRUCTION SHALL BE REPLACED, TRANSPLANTED, OR RE-SODDED ACCORDING TO THE CONSTRUCTION DOCUMENTS OR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
26. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS HISTORICAL STRUCTURES, TREES, DRAINS, WATER OR GAS PIPES, POLES, WALLS, ETC. ARE NOT TO BE DISTURBED UNLESS NOTED AND APPROVED BY STATE HISTORICAL PRESERVATION OFFICE (SHPO), ALDOT, ADEM, EPA, ETC.
27. CONTRACTOR IS TO CLEAN UP STREETS IMMEDIATELY AFTER CONCRETE OR OTHER DELIVERY TRUCKS LEAVE THE SITE. MUD AND DEBRIS ARE TO BE KEPT OFF LOCAL, STATE, AND COUNTY ROADS, INLETS, DITCHES, ETC.
28. FUEL TANKS SHALL NOT BE STORED ON THE RIGHT-OF-WAY OVERNIGHT. VEHICLES TRANSPORTING FUEL, CHEMICALS, FERTILIZERS, ETC. ONTO THE RIGHT-OF-WAY SHALL NOT BE LEFT UNATTENDED.
29. CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY PERCEIVED CONFLICTS, AMBIGUOUS ITEMS OR DEFICIENCIES IN THE PLANS, SPECIFICATIONS, GENERAL NOTES, OR RELATED CONTRACT DOCUMENTS.
30. ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT, UNLESS PROTECTED (BORE PITS HAVE A MAXIMUM OF 72 HOURS TO BE OPEN BEFORE FILLED).
31. A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION WITH A GOOD STAND OF GRASS AND/OR SOD. SILT FENCE, WATTLES, AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION.
32. THE AMOUNT OF AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PROJECT IS APPROXIMATELY 1.4 ACRES.
33. ALL FILL MATERIAL OR ONSITE DEBRIS DEPOSITED IN THE RIGHT-OF-WAY SHALL BE REMOVED PRIOR TO ISSUANCE OF FINAL ACCEPTANCE.
34. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THE PROJECT, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
35. ALL EQUIPMENT LEFT OVERNIGHT SHALL BE NO CLOSER THAN 30 FT FROM EDGE OF PAVEMENT.
36. PRESSURE PIPE LINES WILL CONFORM WITH THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
37. ALL MANHOLES, VALVE BOXES, FLAT GRATES, AND HAND HOLES SHOULD BE INSTALLED FLUSH WITH THE EXISTING GROUND, UNLESS OTHERWISE STATED, AND RATED HS-20 (20K LOAD RATING).
38. NO VEHICLES WILL BE PARKED ON THE SHOULDER OF THE ROAD FACING ON-COMING TRAFFIC AT ANYTIME.
39. ALL DISTURBED AREAS WILL BE RE-SODDED OR SEEDED ACCORDING TO THE ENGINEER AND OWNER.
40. IN THE EVENT THAT THE EXISTING TYPE A CURB, COMBINATION CURB & GUTTER, AND OR RETAINING WALLS/CURB IN VARIOUS AREAS ALONG THE PROJECT ROUTE ARE DAMAGED, THE CONTRACTOR SHALL MAKE THESE REPAIRS AS A SUBSIDIARY OBLIGATION OF THE VARIOUS BID ITEMS. THIS INCLUDES REMOVING DAMAGED PORTIONS, REPLACING THESE PORTIONS, DISPOSAL OF DEBRIS, ESTABLISHING SUITABLE BASE, ETC.
41. CURRENTLY THERE IS A NPDES STORMWATER PERMIT FOR THE PROJECT IN THE NAME OF CITY OF MILLBROOK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH TRANSFERRING THIS PERMIT INTO ITS NAME AND ANY/ALL OTHER COST ASSOCIATED WITH THE NPDES PERMIT, WHICH INCLUDED, BUT IS NOT LIMITED TO THE TRANSFER FEE, INSPECTION FEES, NOTICE OF TERMINATION, RESPONDING TO VIOLATIONS, ANY FINES, ETC. ANY COST ASSOCIATED WITH RESPONDING TO VIOLATIONS OR FINES SHALL NOT BE PAID OUT OF THE STORMWATER PERMIT ALLOWANCE. THESE ITEMS SHALL BE PAID BY THE CONTRACTOR AT ITS EXPENSE. THE CONTRACTOR SHALL NOT SUBMIT A PAY APPLICATION FOR THE PROJECT PRIOR TO HAVING THE NPDES PERMIT TRANSFERRED INTO ITS NAME.

EXISTING UTILITY LEGEND

EXISTING BENDS	
EXISTING CONCRETE MONUMENT	
EXISTING CULVERT	
EXISTING ELECTRICAL: UNDERGROUND	UGE UGE
EXISTING ELECTRICAL: OVERHEAD	OHE OHE
EXISTING FENCE: CHAIN LINK	X X X
EXISTING FIRE HYDRANT ASSEMBLY	
EXISTING FIBER OPTIC MARKER	F
EXISTING GUY WIRE	
EXISTING LIGHT POLE	
EXISTING POWER POLE	
EXISTING R.O.W.	
EXISTING SEWER MAIN GRAVITY MAIN	SS SS
EXISTING SEWER MANHOLE	S
EXISTING SIGN	
EXISTING TELEPHONE PEDESTAL	T
EXISTING COMMUNICATION BOX	C
EXISTING WATER MAIN	W W
EXISTING WATER METER	
EXISTING WATER VALVE	WV

REQUIRED UTILITY LEGEND

REQUIRED BENDS/FITTINGS	
REQUIRED STEEL CASING	
REQUIRED MJ CAP / PLUG	
REQUIRED SEWER FORCE MAIN	FM
REQUIRED GRAVITY SEWER MAIN	SS
REQUIRED GATE VALVE	
REQUIRED COMBO ARV ASSEMBLY	
REQUIRED REDUCER	
REQUIRED MANHOLE	S
REQUIRED SILT FENCE	
REQUIRED INLET PROTECTION	
REQUIRED EROSION EEL	

UTILITY CONTACTS

GOODWYN MILLS CAWOOD, LLC.
JOSH PIERCE, PE, PROJECT MANAGER
PHONE: (334) 271-3200

CITY OF MILLBROOK
MICHAEL HARRIS
3160 MAIN STREET
MILLBROOK, AL
PHONE: (334) 285-3001

ALDOT SE REGION, DISTRICT 61
3298 ALABAMA HIGHWAY 143
ELMORE, AL 36025
PHONE: (334) 567-4379

ALABAMA POWER COMPANY
1722 COUNTY ROAD 40 WEST
PRATTVILLE, AL 36067
PHONE: (334) 365-9485

KNOLOGY
1637 EASTERN BLVD
MONTGOMERY, AL 36117
PHONE: (334) 356-6100

AT&T
1965 COBBS FORD ROAD
PRATTVILLE, AL36066
PHONE: (334) 358-7330

SPIRE
2101 6TH AVE N - 9TH FLOOR
PHONE: (205) 326-1694

CHARTER COMMUNICATIONS
262 INTERSTATE COMM PARK
PHONE: (334) 358-2596

NOTE: THIS LIST IS NOT ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES FOR LINE LOCATIONS/INFORMATION.

GMC
2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
GMCNETWORK.COM

ISSUE	DATE
PRELIMINARY	01.31.2025
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DRAWN BY: SWA
DESIGNED BY: JDL/TWS
CHECKED BY: JCP

SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CHANCE PIERCE 31/12/2025

PROJECT NOTES & SYMBOLS LEGEND

G-002

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\+PLANS\2 - G002 - NOTES & LEGEND.dwg

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\+PLANS\3 - G003 - OVERALL PROJECT MAP.dwg

OVERALL PROJECT MAP

G-003

SANITARY SEWER UTILITY RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ISSUE	DATE
PRELIMINARY	01.31.2025
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DRAWN BY:	SWA
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2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
GMCNETWORK.COM

GMC

OVERALL PROJECT SUMMARY OF QUANTITIES																
ROADWAY	STATION	SIDE	CLEARING & GRUBBING	MOBILIZATION	SEEDING	MULCHING	TEMPORARY SEEDING	TEMPORARY MULCHING	SILT FENCE	SILT FENCE REMOVAL	WATTLE	CONSTRUCTION SAFETY FENCE	GEOMETRIC CONTROLS	CONSTRUCTION SIGNS	CHANNELIZING DRUMS	CONES (36" HIGH)	BALLASTS FOR CONES
			201A-002	600A-000	652A-100	656A-010	665A-000	665B-001	665J-002	665O-001	665Q-002	674A-000	680A-001	740B-000	740D-000	740E-000	740M-001
			LS	LS	ACRE	ACRE	ACRE	ACRE	LF	LF	LF	LF	LS	SQ FT	EA	EA	EA
TOTAL PROJECT			1	1	1.4	1.4	1	1	3500	3500	150	200	1	320	25	25	25

C-301 & C-302 - AL-14 SANITARY SEWER FORCE MAIN IMPROVEMENTS												
ROADWAY	STATION	SIDE	CEMENT MORTAR FLOWABLE BACKFILL, MIX 3	CONCRETE FOR WATER MAIN (THRUST BLOCK)	8"x8" TAPPING SLEEVE & VALVE	8" LINE STOP	6" PVC SANITARY SEWER FORCE MAIN PIPE LAID	8" PVC SANITARY SEWER FORCE MAIN PIPE LAID	DUCTILE IRON FITTINGS	6" RETAINER GLAND	8" RETAINER GLAND	16" STEEL ENCASEMENT PIPE, TYPE II INSTALLATION
			260A-002	641L-500	641O-520	641T-512	645A-652	645A-654	645C-500	645D-512	645D-514	649A-645
			CU YD	CU YD	EA	EA		LF	LB	EA	EA	LF
AL-14	81+11 - 93+61	LT	17	2		1			80		2	
AL-14	81+22 - 93+70	LT						1280				
AL-14	81+22	LT		1					80		2	
AL-14	82+70	LT		1					80		2	
AL-14	83+40 - 83+90	LT										50
AL-14	84+38	LT		1					85		2	
AL-14	84+45	LT		1					85		2	
AL-14	85+99	LT		3			15		75	4	1	
AL-14	88+72	LT		1					85		2	
AL-14	88+88	LT		1					85		2	
AL-14	89+08	LT										50
AL-14	92+81	LT		1					85		2	
AL-14	92+93	LT		1					85		2	
AL-14	93+69	LT		2		1			80		2	
AL-14	93+70	LT		2	1				85		3	
TOTAL			17	17	1	2	15	1280	990	4	24	100

C-303 - AL-14 SANITARY SEWER FORCE MAIN IMPROVEMENTS										
ROADWAY	STATION	SIDE	CEMENT MORTAR FLOWABLE BACKFILL, MIX 3	CONCRETE FOR WATER MAIN (THRUST BLOCK)	8"x8" TAPPING SLEEVE & VALVE	8" LINE STOP	8" PVC SANITARY SEWER FORCE MAIN PIPE LAID	DUCTILE IRON FITTINGS	8" RETAINER GLAND	1" AIR & VACUUM VALVE ASSEMBLY
			260A-002	641L-500	641O-520	641T-512	645A-654	645C-500	645D-514	645O-510
			CU YD	CU YD	EA	EA	LF	LB	EA	EA
AL-14	102+01 - 110+45	LT	11				865			
AL-14	102+01	LT		2	1			85	3	
AL-14	102+09 - 110+45	LT		2		1		80	2	
AL-14	102+23	LT		1				80	2	
AL-14	103+00	LT		1				80	2	
AL-14	104+02	LT		1				80	2	
AL-14	104+76	LT		1				80	2	
AL-14	105+32	LT		1				80	2	
AL-14	105+99	LT		1				80	2	
AL-14	108+82	LT								1
AL-14	110+07	LT		1				85	2	
AL-14	110+20	LT		1				85	2	
AL-14	110+44	LT		2		1		80	2	
AL-14	110+45	LT		1	1				1	
TOTAL			11	15	2	2	865	895	24	1

GMC
2660 East Chase Lane, Suite 200
Montgomery, AL 36117
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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
31/01/2025

SUMMARY OF QUANTITIES

G-004

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\9 DWGs\PLANS\4 - G004 - SUMMARY OF QUANTITIES.dwg

C-304 - AL-14 GRAVITY SEWER IMPROVEMENTS									
ROADWAY	STATION	SIDE	REMOVING MANHOLES	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	4" PVC SANITARY SEWER GRAVITY PIPE LAID	8" PVC SANITARY SEWER GRAVITY PIPE LAID	4" SANITARY SEWER LATERAL CLEANOUT	48" MANHOLE	16" STEEL ENCASEMENT PIPE, TYPE I INSTALLATION
			206E-003	618B-003	645A-544	645A-548	645G-510	645H-510	649A-545
			EA	SQ YD	LF	LF	EA	EA	LF
AL-14	123+39	LT		18	20		1		
AL-14	123+59	LT	1			30		1	20
AL-14	123+73	LT			20		1		
TOTAL			1	18	40	30	2	1	20

C-305 - PAIGE HILLS ROAD GRAVITY SEWER IMPROVEMETS								
ROADWAY	STATION	SIDE	REMOVING UTILITY LINES	REMOVING MANHOLES	8" DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID	48" MANHOLE (DOGHOUSE)	48" MANHOLE	48" MANHOLE UNIT
			206D-030	206E-003	645A-510	645H-710	645H-510	645I-500
			LF	EA	LF	EA	EA	EA
AL-14	99+39	RT					1	1
AL-14	99+39 - 103+39	RT			400			
AL-14	99+39 - 99+44	RT	16					
AL-14	99+44	RT		1				
AL-14	99+44 - 103+96	RT	450					
AL-14	102+72	RT	14					
AL-14	103+39	RT					1	2
AL-14	103+39 - 105+94	RT			255			
AL-14	103+95	RT	15	1				
AL-14	103+95 - 105+95	RT	277					
AL-14	104+71	RT	15					
AL-14	105+94	RT				1		2
AL-14	105+94 - 108+36	RT			242			
AL-14	105+95	RT	12	1				
AL-14	105+95 - 108+22	RT	286					
AL-14	106+64	RT	14					
AL-14	107+61	RT	15					
AL-14	108+22	RT		1				
AL-14	108+36	RT	20					
AL-14	108+36	RT					1	1
TOTAL			1134	4	897	1	3	6

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DESIGNED BY: JDL/TWS
CHECKED BY: JCP

SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA D. LEWIS COUNTY OF ELMORE 31/01/2025

SUMMARY OF QUANTITIES

G-005

0 50' 100'
Scale: 1" = 50'

REQ'D 8" SDR17 CL250 PVC FORCE MAIN
REQ'D TYPE A SILT FENCE
APPROXIMATE LOCATION OF NEW 20" WATER MAIN (RELOCATED BY OTHERS)
EX. 16" FORCE MAIN (RELOCATED BY OTHERS)
REQ'D CONNECT TO EX. STUBOUT
1 EA–8" 22.5° BEND w/ THRUST BLOCK
2 EA–8" RETAINER GLANDS
REQ'D 2 EA–8" CAP w/ THRUST BLOCK
17 CY–CEMENT MORTAR FLOWABLE BACKFILL, MIX 3
2 EA–8" RETAINER GLANDS
EX. FORCEMAIN (TO REMAIN)
START UTILITY RELOCATION
STA 81+22
MP 161.29
REQ'D 1 EA–8" 11.25° BENDS
w/ THRUST BLOCK
2 EA–8" RETAINER GLANDS
REQ'D 50 LF–16" STEEL ENCASEMENT (ALDOT TYPE II INSTALLATION) w/ 30'x10' BORE PIT & 10'x10' RECEIVING PIT
4 EA–8" HYDRO GRIP GASKETS (SUBSIDIARY OBLIGATION)
REQ'D 2 EA–8" 45° BENDS
w/ THRUST BLOCKS
4 EA–8" RETAINER GLANDS
REQ'D 1 EA–6" 45° BEND w/ THRUST BLOCK
1 EA–6" CAP w/ THRUST BLOCK
1 EA–8"x6" WYE w/ THRUST BLOCK
4 EA–6" RETAINER GLANDS
2 EA–8" RETAINER GLANDS
EX. 8" FORCEMAIN (TO BE ABANDONED)
℄ OF PROJECT
TURTLE DR
LONGVIEW RD
AL HWY 14
ACQD ROW
PRES ROW
TEMP CONST ESMT
LINES CONTINUE
MATCH LINE – 1
STATION – 87+16.15
AT STATION – 87+16.15
SEE SHEET C–302
1
C-306

NOTE:
1. THE CONTRACTOR SHALL INSTALL THE FORCE MAIN A MIN. OF 6' DEEP BELOW EXISTING GRADE STA 82+00 – STA 93+69.

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWGs\PLANS\S - C301 - SEWER MAIN PLAN.dwg

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
3/17/2025

FORCE MAIN PLAN - ALABAMA HIGHWAY 14

C-301

REQ'D 2 EA–8" 45° BENDS w/ THRUST BLOCK
4 EA–8" RETAINER GLANDS

REQ'D 50 LF–16" STEEL ENCASEMENT (ALDOT TYPE II INSTALLATION) w/ 30'x10' BORE PIT & 10'x10' RECEIVING PIT
4 EA–8" HYDRO GRIP GASKETS (SUBSIDIARY OBLIGATION)

REQ'D CUT AND PATCH DRIVEWAY
(SUBSIDIARY OBLIGATION)

REQ'D 1 EA–8" TS&V w/ THRUST BLOCK
1 EA–8" 90° BEND w/ THRUST BLOCK
3 EA–8" RETAINER GLANDS

REQ'D 8" SDR17 CL250
PVC FORCE MAIN

REQ'D TYPE A SILT FENCE

REQ'D 2 EA–8" 45° BENDS
w/ THRUST BLOCKS
4 EA–8" RETAINER GLANDS

2
C-306

APPROXIMATE LOCATION OF NEW 20" WATER MAIN (RELOCATED BY OTHERS)

RETAIN EXISTING FORCE MAIN
(NO WORK PERFORMED)

REMOVE & RESET SIGN
(AS NEEDED)

EX. 8" FORCEMAIN (TO BE ABANDONED)

REQ'D REPLACE CONCRETE FLUME
(SUBSIDIARY)

REQ'D 1 EA–8" LINE STOP
2 EA–8" CAP w/ THRUST BLOCK
2 EA–8" RETAINER GLANDS

ACQD ROW

AL HWY 14

CHARLESTON DR

CROSSGATE DR

PINELEAF DR

MATCH LINE – 1
AT STATION – 87+16.15
SEE SHEET C-301

MATCH LINE – 2
AT STATION – 99+33.35
SEE SHEET C-303

0 50' 100'
Scale: 1" = 50'

NOTE:
1. THE CONTRACTOR SHALL INSTALL THE FORCE MAIN A MIN OF 6' BELOW EXISTING GRADE DEEP STA 82+00 – STA 93+69.

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\+PLANS\5 - C301 - SEWER MAIN PLAN.dwg

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25787 PROFESSIONAL ENGINEER CLINTON D. PIERCE 3/19/2026

FORCE MAIN PLAN - ALABAMA HIGHWAY 14

C-302

N

0 50' 100'

Scale: 1" = 50'

APPROXIMATE LOCATION OF NEW 20" WATER MAIN (RELOCATED BY OTHERS)

REQ'D 1 EA–8" TS&V w/ THRUST BLOCK
1 EA–8" 90° BEND w/ THRUST BLOCK
1 EA–8" 11.25° BEND w/ THRUST BLOCK
5 EA–8" RETAINER GLANDS

REQ'D 8" SDR17 CL250 PVC FORCE MAIN

REQ'D 1 EA–8" 11.25° BEND w/ THRUST BLOCK 2 EA–8" RETAINER GLANDS

REQ'D 1 EA–8" 11.25° BEND w/ THRUST BLOCK 1 EA–8" 22.5° BEND w/ THRUST BLOCK 4 EA–8" RETAINER GLANDS

REQ'D 1 EA–8" 22.5° BEND w/ THRUST BLOCK 2 EA–8" RETAINER GLANDS

REQ'D 8" SDR17 CL250 PVC FORCE MAIN

REQ'D 1 EA–1" AIR RELEASE VALVE

REQ'D TYPE A SILT FENCE

REQ'D 2 EA–8" 45° BENDS w/ THRUST BLOCKS 4 EA–8" RETAINER GLANDS 10 LF–16" STEEL ENCASEMENT

REQ'D 1 EA–8" TS&V w/ THRUST BLOCK 1 EA–8" RETAINER GLANDS

ACQD ROW

EX. 8" FORCEMAIN (TO BE ABANDONED)

REQ'D 1 EA–8" 11.25° BEND w/ THRUST BLOCK 2 EA–8" RETAINER GLANDS

REQ'D 1 EA–8" LINE STOP
2 EA–8" CAP w/ THRUST BLOCK
11 CY–CEMENT MORTAR FLOWABLE BACKFILL, MIX 3
2 EA–8" RETAINER GLANDS

REQ'D 1 EA–8" LINE STOP
2 EA–8" CAP w/ THRUST BLOCK
2 EA–8" RETAINER GLANDS

PAIGE HILLS ROAD SEWER (SEE SHEET C–305)

MATCH LINE – 24 LINE – 2
AT STATION – 99+33.35
SEE SHEET C–302

AL HWY 14

PAIGE HILLS RD

KINGS RD

COLONIAL DR

GOVERNORS DR

WOODDALE DR

CONC DR

CONC WALL

CONC SW

TO RES

PRES ROW

℄ OF PROJECT

10.0'

11.1'

65.0'

12.0'

56.0'

10.7'

58.0'

54'

146'

91'

148'

57'

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
3/17/2025

FORCE MAIN PLAN - ALABAMA HIGHWAY 14

C-303

N

0 50' 100'

Scale: 1" = 50'

APPROXIMATE LOCATION OF NEW 20" WATER MAIN (RELOCATED BY OTHERS)

SSMH-119
N: 738623.3626
E: 497550.6924
∠: 0°

REQ'D 20 LF-4" PVC LATERAL

REQ'D 20 LF-4" PVC LATERAL
18 SQ YD-CONCRETE DRIVEWAY PATCH

ASSUMED 4" SEWER LATERAL LOCATION
(REROUTE TO NEW MANHOLE WITH NEW HEAVY DUTY CLEANOUT)

3
C-306

ASSUMED 4" SEWER LATERAL LOCATION
(REROUTE TO NEW MANHOLE WITH NEW HEAVY DUTY CLEANOUT)

1&2

ACQD ROW

REQ'D CUT AND CAP EX. 20" WATER MAIN
BEFORE SANITARY SEWER INSTALLATION
20" WATER MAIN CAN ONLY BE CUT
AFTER RELOCATED 20" WATER MAIN IS IN
SERVICE (BY OTHERS)
4 EA-20" CAP

REQ'D 20 LF-16" STEEL ENCASEMENT
(ALDOT TYPE I INSTALLATION)
30 LF-8" PVC GRAVITY SEWER MAIN
MATCH EXISTING SLOPE

REQ'D CONNECT TO EXISTING GRAVITY LINE W/
SLEEVE & CONCRETE COLLAR
(SUBSIDIARY OBLIGATION)

REQ'D DEMO EX. MH-119

℄ OF PROJECT

AL HWY 14

PRES ROW

BROWNSTONE LOOP

SAVANNAH DR

PINECREST DR

TEMP CONST ESMT

TEMP CONST ESMT

ACQD ROW

MH-117
RIM: 289.83
INV. IN: 283.93 8"
INV. OUT: 283.83 8"

MH-116
RIM: 290.66
INV. IN: 283.46 8"
INV. OUT: 283.41 8"

MH-118
RIM: 1.19
INV. IN: 283.02 6"
INV. IN: 283.55 4"
INV. IN: 283.76 4"
INV. OUT: 283.00 8"

NOTE:
1. THE CONTRACTOR SHALL LOCATE THE EXISTING LATERALS AND NOTIFY THE ENGINEER OF FINDINGS PRIOR TO INSTALLATION.
2. AFTER CONFIRMATION AND CONNECTING TO THE NEW MANHOLE, THE CONTRACTOR SHALL REMOVE & DISPOSE OF EXCESS LATERAL PIPING.

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWGs\PLANS\S - C301 - SEWER MAIN PLAN.dwg

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25787 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
3/27/2025

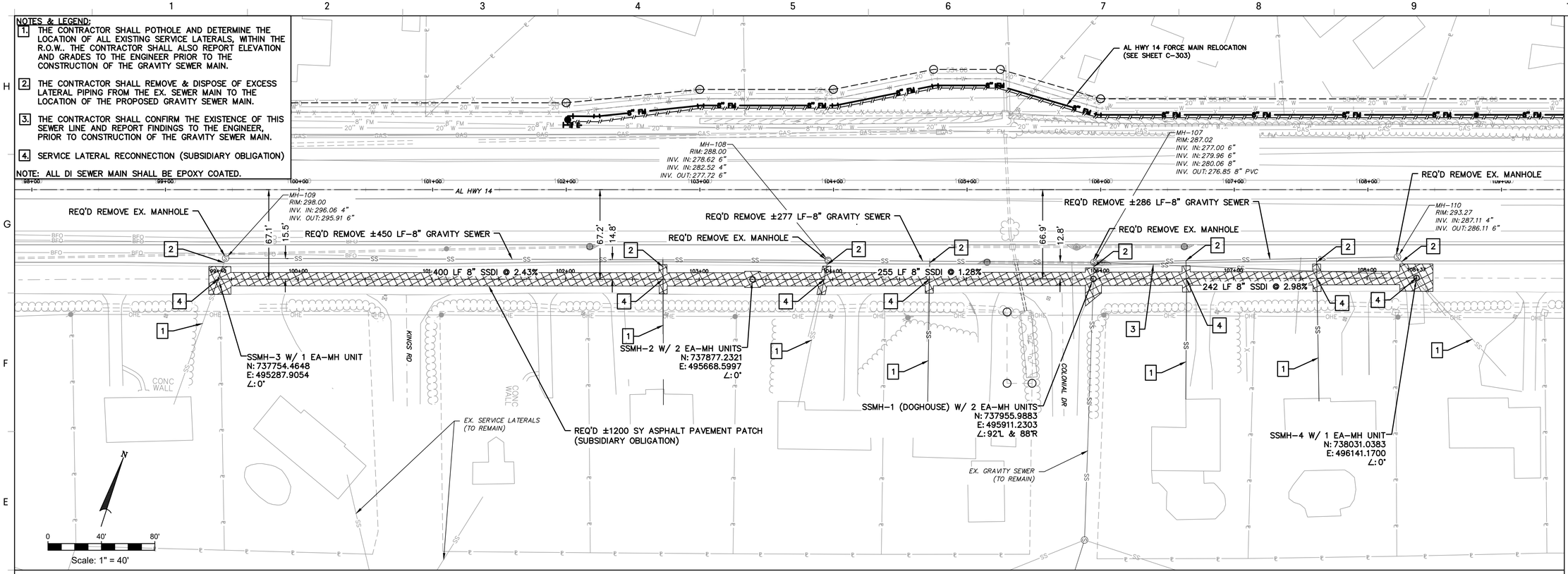
GRAVITY SEWER
PLAN - ALABAMA
HIGHWAY 14

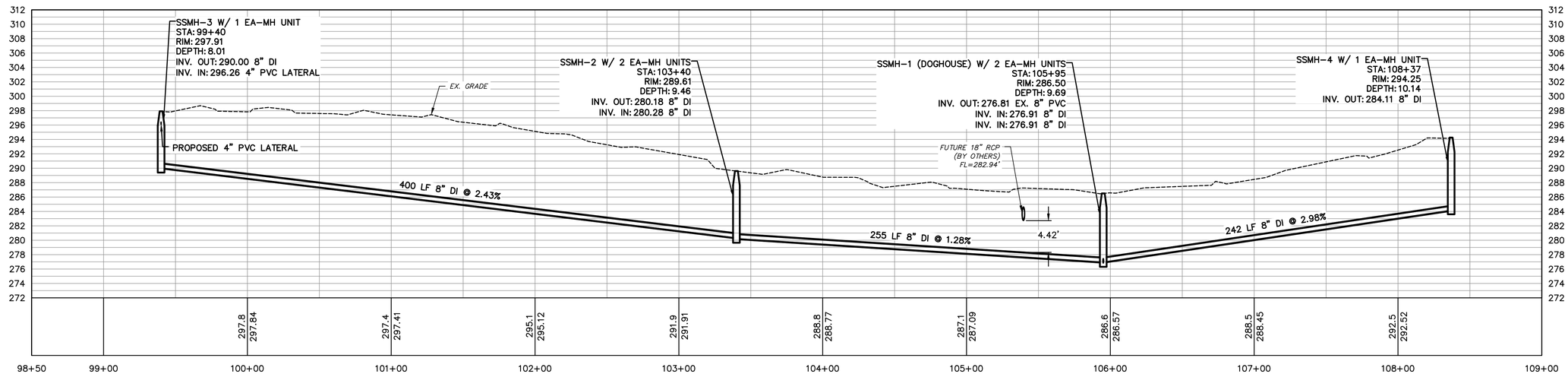
C-304

NOTES & LEGEND:

1. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE LOCATION OF ALL EXISTING SERVICE LATERALS, WITHIN THE R.O.W.. THE CONTRACTOR SHALL ALSO REPORT ELEVATION AND GRADES TO THE ENGINEER PRIOR TO THE CONSTRUCTION OF THE GRAVITY SEWER MAIN.
2. THE CONTRACTOR SHALL REMOVE & DISPOSE OF EXCESS LATERAL PIPING FROM THE EX. SEWER MAIN TO THE LOCATION OF THE PROPOSED GRAVITY SEWER MAIN.
3. THE CONTRACTOR SHALL CONFIRM THE EXISTENCE OF THIS SEWER LINE AND REPORT FINDINGS TO THE ENGINEER, PRIOR TO CONSTRUCTION OF THE GRAVITY SEWER MAIN.
4. SERVICE LATERAL RECONNECTION (SUBSIDIARY OBLIGATION)

NOTE: ALL DI SEWER MAIN SHALL BE EPOXY COATED.





PROPOSED GRAVITY SEWER RELOCATION
PAIGE HILLS ROAD
FACING NORTHWEST
STA 99+40 – STA 108+37

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
31 Jan 2025

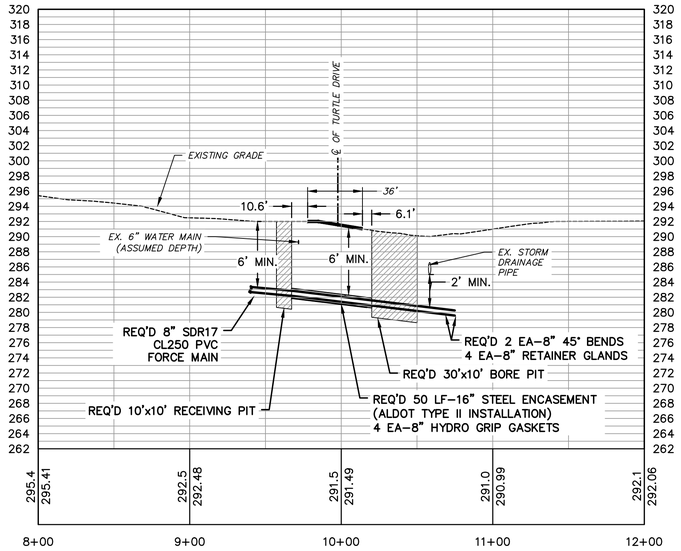
GRAVITY SEWER
PLAN - PAIGE HILLS
ROAD

C-305

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\+PLANS\E - C301 - SEWER MAIN PLAN.dwg

NOTE:

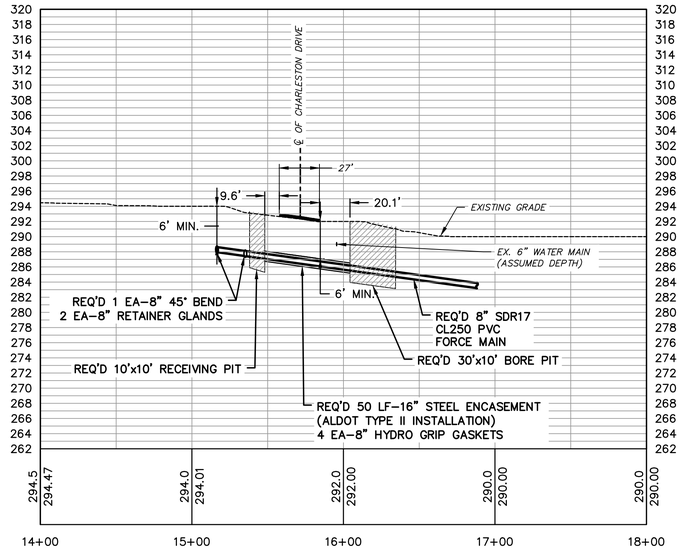
THE EXACT ROAD ELEVATION IS SHOWN ON ROAD PLAN SHEETS. THE CONTRACTOR SHALL INSTALL THE STEEL CASING IN THE METHOD LISTED SO THAT THERE IS A MINIMUM OF 4' CLEARANCE BELOW THE LOWEST POINT OF THE NEW ALIGNMENT OF ALABAMA HIGHWAY 14 AND THE TOP OF THE PROPOSED STEEL ENCASEMENT.



PROPOSED FORCE MAIN CROSSING – TURTLE DRIVE
ALABAMA HIGHWAY 14
FACING NORTHWEST
STA 8+00 – STA 12+00

1
C-301

SCALE: 1" = 50'H
1" = 10'V



NOTE:

THE EXACT ROAD ELEVATION IS SHOWN ON ROAD PLAN SHEETS. THE CONTRACTOR SHALL INSTALL THE STEEL CASING IN THE METHOD LISTED SO THAT THERE IS A MINIMUM OF 4' CLEARANCE BELOW THE LOWEST POINT OF THE NEW ALIGNMENT OF ALABAMA HIGHWAY 14 AND THE TOP OF THE PROPOSED STEEL ENCASEMENT.

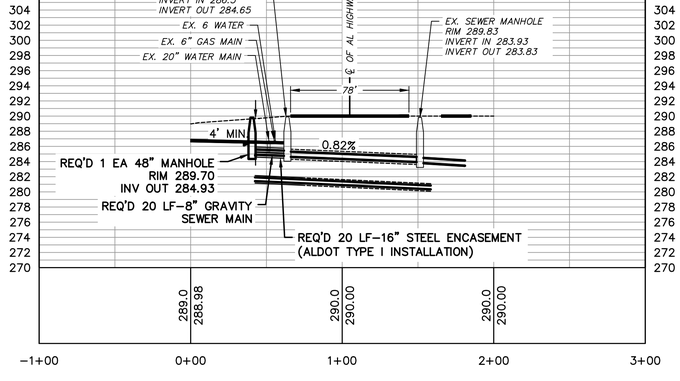
PROPOSED FORCE MAIN CROSSING – CHARLESTON DRIVE
ALABAMA HIGHWAY 14
FACING NORTHWEST
STA 14+00 – STA 18+00

2
C-302

SCALE: 1" = 50'H
1" = 10'V

NOTE:

THE EXACT ROAD ELEVATION IS SHOWN ON ROAD PLAN SHEETS. THE CONTRACTOR SHALL INSTALL THE STEEL CASING IN THE METHOD LISTED SO THAT THERE IS A MINIMUM OF 4' CLEARANCE BELOW THE LOWEST POINT OF THE NEW ALIGNMENT OF ALABAMA HIGHWAY 14 AND THE TOP OF THE PROPOSED STEEL ENCASEMENT.



PROPOSED STEEL CASING EXTENSION
ALABAMA HIGHWAY 14
FACING NORTHEAST
STA 123+55

3
C-304

SCALE: 1" = 50'H
1" = 10'V

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SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA

GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
3/17/2025

BORE PROFILES

C-306

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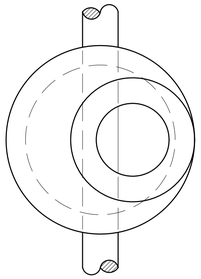
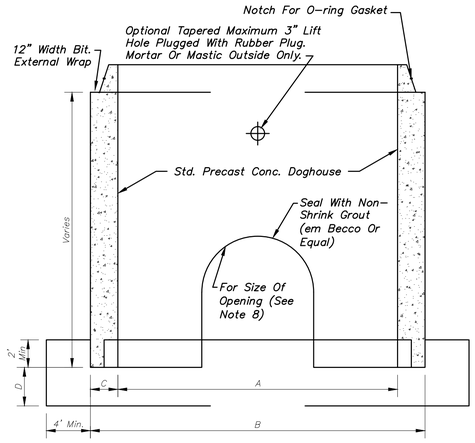


PLAN VIEW



1. CONCRETE TO BE CLASS "C"
2. ALL REINFORCING TO MEET REQUIREMENTS OF CURRENT A.S.T.M. SPECIFICATION C-478.
3. MANHOLE SECTIONS TO MEET REQUIREMENTS OF CURRENT A.S.T.M. SPECIFICATION C-478.
4. TAPERED JOINT WITH O-RING GASKET TO MEET CURRENT A.S.T.M. SPECIFICATION C-361.
5. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST. SIZE, LOCATION AND ANGLE OF ENTRY SHALL BE AS REQUIRED BY THE PLANS.
6. JOINT CONFIGURATION MAY BE CAST BELL-UP OR SPIGOT-UP.
7. HOLES IN PRECAST UNITS ARE TO BE 4" MIN. TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE.
8. BASE SECTION TO PROVIDE 6" MIN. CLEARANCE BETWEEN TOP OF PIPE OPENING AND BOTTOM OF BELL AND SPIGOT JOINT.

Chart "A"

Minimum Dimensions			
Mh	4'-0"	5'-0"	6'-0"
A	48"	60"	72"
B	58"	72"	86"
C	5"	6"	7"
D	6"	8"	10"

DIMENSIONS OF "D" SHALL BE TAKEN FROM BOTTOM OF KEY (SEE DRAWING)

PRECAST CONCRETE MANHOLE DOGHOUSE BASE

NOT TO SCALE

Bearing Area of Thrust Blocks In Sq. Ft.
(Horizontal Bends)

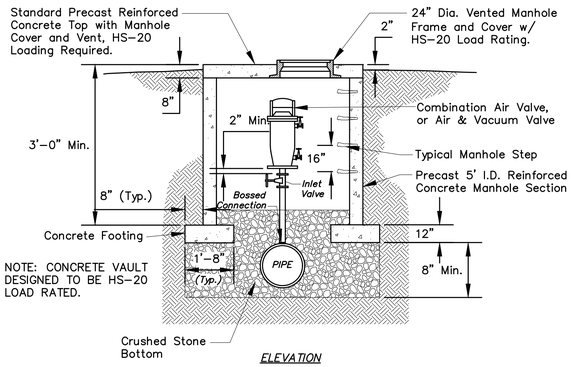
Fitting Size	Tee, Wye Plug or Cap	90°Bend Plugged Cross	Tee Plugged on Run		Bend Angle		
			A1	A2	45°	22 1/2°	11 1/4°
4	1.0	1.4	1.9	1.4	1.0	–	–
6	2.1	3.0	4.3	3.0	1.6	1.0	–
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

Volume of Thrust Block In Cubic Yards Vertical Bends

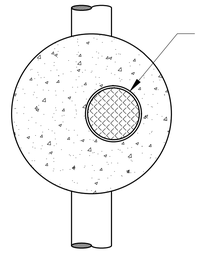
Fitting Size	Bend Angle		
	45°	22 1/2°	11 1/2°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.5	5.6	2.3

Fitting Size	Embedment
12" and Less	30"
14" – 15"	36"

Note:
All concrete collars, thrust block, Etc. shall be formed and poured in place. Concrete shall Meet requirements of class C 2500 PSI concrete in accordance with general specifications for reinforced concrete.



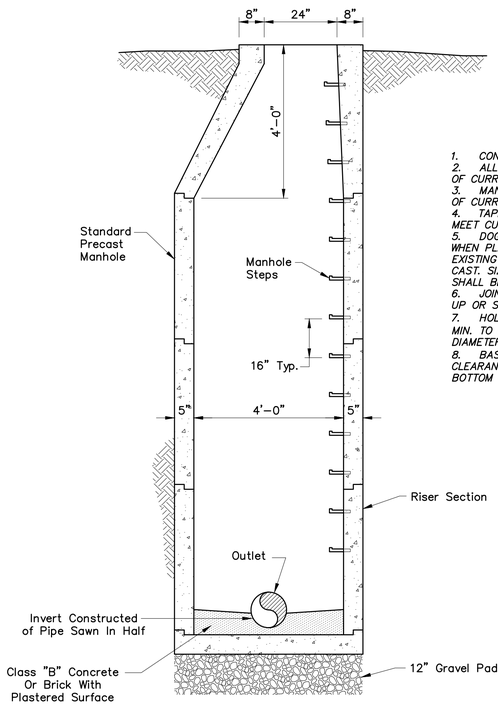
ELEVATION



TOP VIEW

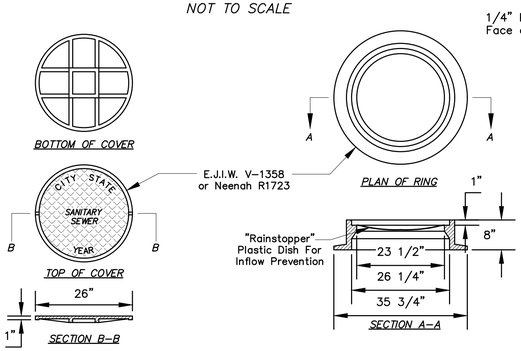
COMBINATION AIR RELEASE AND AIR VACUUM VALVE DETAIL

NOT TO SCALE



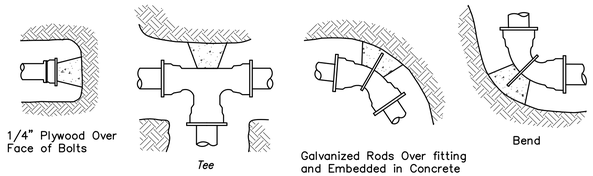
STANDARD INLET MANHOLE

NOT TO SCALE



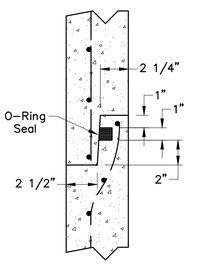
MANHOLE COVER & RING

NOT TO SCALE



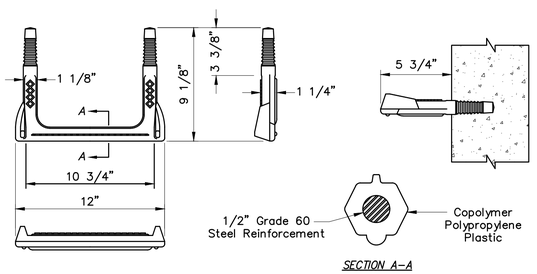
DETAIL OF THRUST BLOCKS

NOT TO SCALE



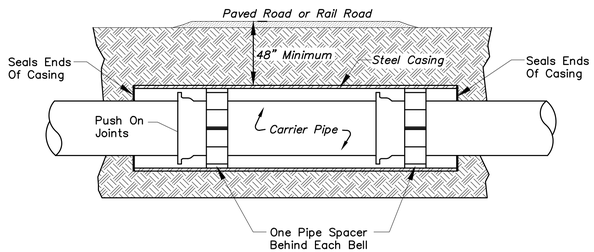
TYPICAL MANHOLE JOINT

NOT TO SCALE



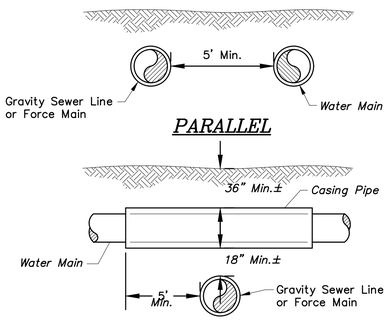
MANHOLE STEPS DETAIL

NOT TO SCALE



CASING PIPE AND CARRIER PIPE UNDER PAVED ROADS AND RAILROADS

NOT TO SCALE



CROSSING

DETAILS OF UTILITY SEPARATION

NOT TO SCALE

GMC

2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
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ISSUE	DATE
PRELIMINARY	01.31.2025
FINAL	09.01.2025
DRAWN BY:	SWA
DESIGNED BY:	JDL/TWS
CHECKED BY:	JCP

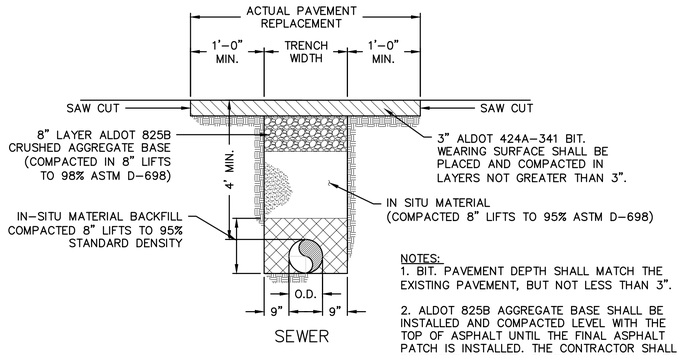
SANITARY SEWER UTILITY
RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE 3/31/2025

SEWER DETAILS

C-901

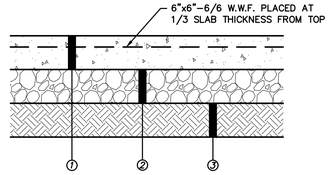
DRAWING FILE: T:\1 Projects\ALMillbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\+PLANS\6 - C901 - DETAILS.dwg



NOTES:
1. BIT. PAVEMENT DEPTH SHALL MATCH THE EXISTING PAVEMENT, BUT NOT LESS THAN 3".

2. ALDOT 825B AGGREGATE BASE SHALL BE INSTALLED AND COMPACTED LEVEL WITH THE TOP OF ASPHALT UNTIL THE FINAL ASPHALT PATCH IS INSTALLED. THE CONTRACTOR SHALL REMOVE THE GRAVEL BASE AS NECESSARY TO INSTALL THE FINAL ASPHALT PATCH.

ASPHALT PAVEMENT PATCH: SEWER
N.T.S.

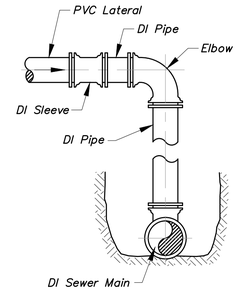


CONCRETE DRIVEWAY SECTION
N.T.S.

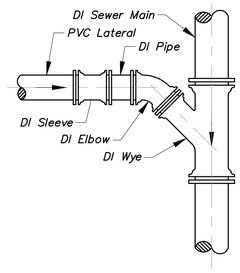
① 6.0" 4000 psi COMPRESSIVE STRENGTH CONCRETE, (550 psi FLEXURAL STRENGTH, MAXIMUM 4" SLUMP)

② 6.0" MIN. CRUSHED STONE BASE, ALDOT SECTION 825, TYPE B (COMPACTED IN 6-INCH LIFTS TO 100% AASHTO T-99)

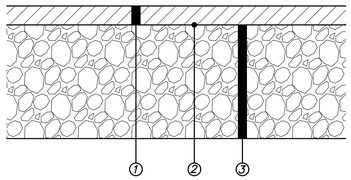
③ REQ'D STRUCTURAL FILL PLACED IN 8" LIFTS, COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY



RISER CONNECTION ELEVATION: DI MAIN
N.T.S.



SERVICE CONNECTION PLAN: DI MAIN
N.T.S.

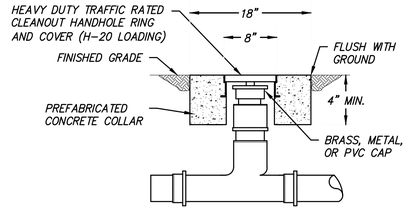


① 3" ALDOT SECTION 424-B BITUMINUS BINDER LAYER, MAX 3/4" AGG. SOZE, ESAL RANGE A/B, 280 LBS/SY

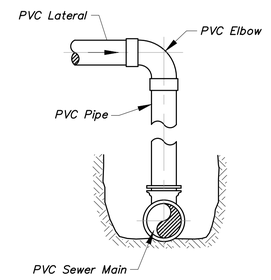
② ALDOT SECTION 401 BITUMINOUS PRIME COAT

③ 18" ALDOT SECTION 825, CLASS B AGGREGATE BASE LAYER [COMPACTED IN 8" LIFTS TO 98% STANDARD PROCTOR (ASTM D-698) MAX DRY DENSITY]

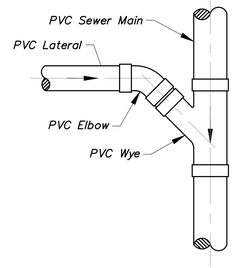
ASPHALT PAVING SECTION
N.T.S.



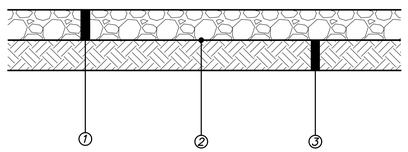
HEAVY-DUTY CLEANOUT DETIAL
N.T.S.



RISER CONNECTION ELEVATION: PVC MAIN
N.T.S.



SERVICE CONNECTION PLAN: PVC MAIN
N.T.S.

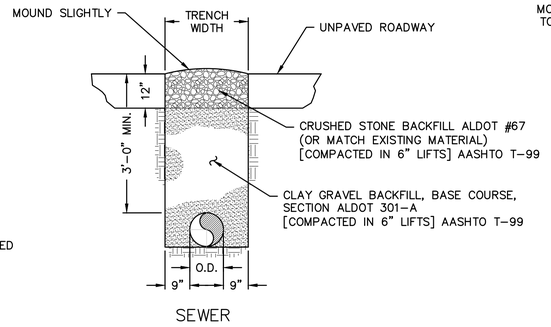


① REQ'D 6.0" ALDOT SECTION 825, CLASS B AGGREGATE BASE, COMPACTED TO 98% MODIFIED PROCTOR [AASHTO T-180] MAXIMUM DRY DENSITY.

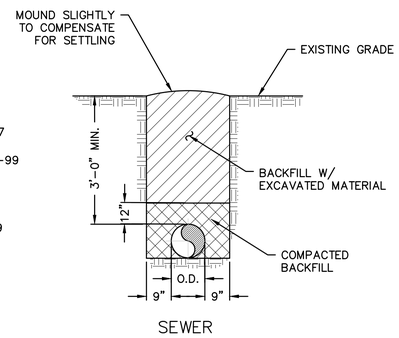
② REQ'D PROPEX GEOTEX 4x4HF GEOTEXTILE FABRIC OR PRE-APPROVED EQUIVALENT.

② REQ'D 6.0" UNDERCUT AND REPLACEMENT WITH STRUCTURAL FILL COMPACTED TO 98% STANDARD PROTOR MAXIMUM DRY DENSITY.

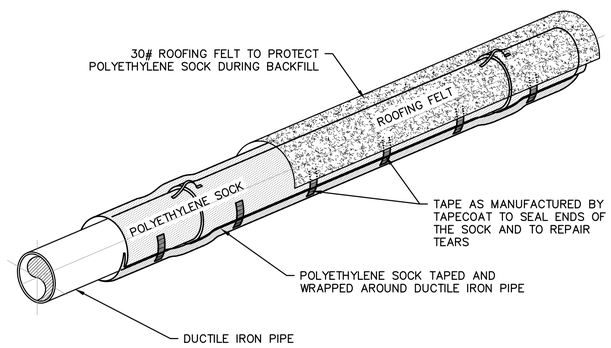
GRAVEL SURFACING SECTION
N.T.S.



UNPAVED ROAD PATCH
N.T.S.



EARTH TRENCH
N.T.S.



POLYETHYLENE WRAP FOR CATHODIC PROTECTION
N.T.S.

GMC

2660 East Chase Lane, Suite 200
Montgomery, AL 36117
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GMCNETWORK.COM

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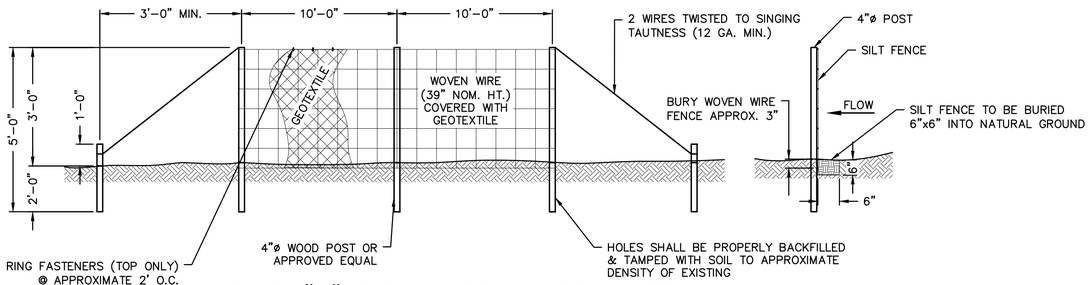
SANITARY SEWER UTILITY RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE
31 JANUARY 2025

STANDARD DETAILS

C-902

DRAWING FILE: T:\1 Projects\AL\Millbrook, City of\22-0057 Utility Relocation for SR 14\0 DWG\vPLANS\8 - C902 - DETAILS.dwg

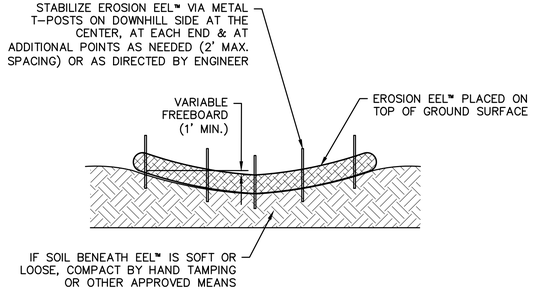


TYPE "A" SILT FENCE & INSTALLATION

N.T.S.

NOTE: SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS DIRECTION OF FLOW.

NOTE: TIE FLOC LOGS SECURELY AT CENTERLINE OF FLOW ON DOWNSTREAM SIDE.



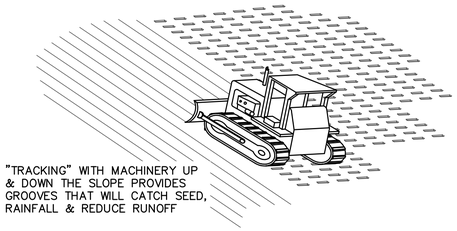
SECTION A-A

SMALL DITCH CHECKS FOR 9.5" AND 20"ø EELS

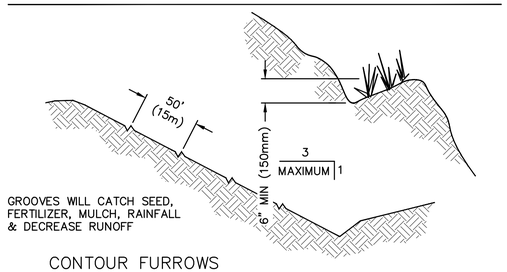
NOTE:
APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL™ TO SPAN.

EROSION EEL DETAIL

N.T.S.



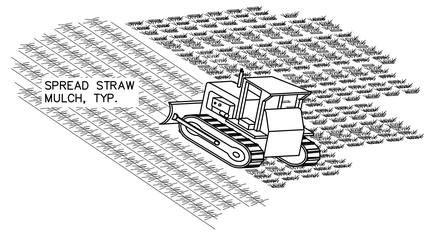
TRACKING



CONTOUR FURROWS

SURFACE ROUGHENING

N.T.S.



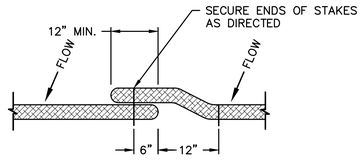
"TRACKING" WITH MACHINERY ON SANDY SOIL PROVIDES ROUGHENING WITHOUT UNDUE COMPACTION

STRAW ANCHORING

NOTES:
1. ROUGHEN SLOPE WITH BULLDOZER.
2. BROADCAST SEED AND FERTILIZER.
3. SPREAD STRAW MULCH 3" (76mm) THICK. (1½ TO 2 TONS PER ACRE.
4. PUNCH STRAW MULCH INTO SLOPE BY RUNNING BULLDOZER UP AND DOWN SLOPE.

STRAW ANCHORING

N.T.S.



PLAN VIEW

OVERLAP/JOINT DETAIL

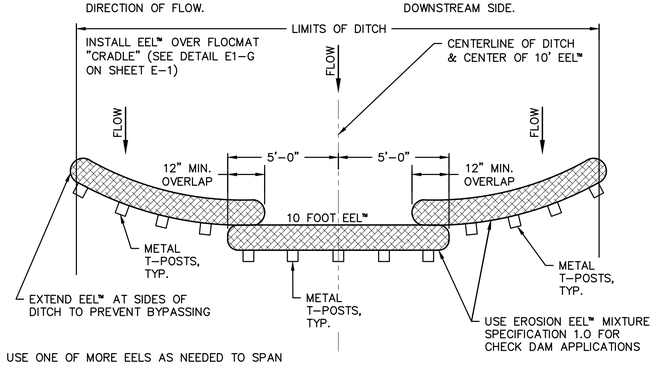
N.T.S.

GENERAL NOTES:

1. EROSION EELS USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2.
   a. MIXTURE SPECIFICATION 1.1. A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO AASHTO CERTIFICATION SPECIFICATION MP 9-03.
   b. MIXTURE SPECIFICATION 1.2. A FILTER MIXTURE COMPRISED OF 1/3 SHREDDED RUBBER, 1/3 WOOD CHIPS, AND 1/3 RECYCLED SYNTHETIC FIBERS. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO AASHTO CERTIFICATION SPECIFICATION MP 9-03. THE SYNTHETIC FIBERS SHALL BE PRODUCED FROM RECYCLED, MANUFACTURED MATERIALS, SUCH AS, BUT NOT LIMITED TO, PRE-CONSUMER SCRAP CARPET, TIRE CHORD, AND TIRE FIBER MATERIALS.
2. EROSION EELS SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS SUCH AS 100% SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0, 50% SHREDDED RUBBER/50% AASHTO-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1).
3. LENGTHS OF EROSION EELS SHALL BE EITHER A NOMINAL +/-10 FT. OR +/- 4.5 FT. NOMINAL DIAMETER SHALL BE +/-9.5 INCHES.
4. EROSION EELS CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
5. EROSION EELS SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.
6. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS.
7. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLODS, AND WOODY VEGETATION. EROSION EELS CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
8. RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARROW.
9. DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. ALL SURFACES SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.
10. FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS AT PRIMARY DISCHARGE LOCATIONS, BED THE EELS IN A FLOCMAT CRADLE PER THE DETAILED DRAWINGS.
11. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
12. IF MORE THAN ONE EROSION EEL IS PLACED IN A ROW, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURER-APPROVED MECHANIZED MEANS.
13. WHEN USED IN DITCHES AS A CHECK DAM, EROSION EELS SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.
14. FOR CHECK DAM APPLICATIONS, EROSION EELS SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION EELS SHALL CONTINUE UP THE SIDES SLOPES A MINIMUM OF 3 FEET ABOVE THE DESIGN FLOW DEPTH.
15. EROSION EELS SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRING REPLACEMENT WITH NEW EELS).
16. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS/FT STEEL T-POSTS (5 TO 7 FT. LENGTHS) ROLLED FROM HIGH CARBON STEEL. POSTS SHOULD BE HOT-DIP GALVANIZED OR COATED WITH A WEATHER-RESISTANT PAINT FOR STEEL APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
17. PLACE T-POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS . T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 2 FT INTO GROUND.

NOTE: SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS DIRECTION OF FLOW.

NOTE: TIE FLOC LOGS SECURELY AT CENTERLINE OF FLOW ON DOWNSTREAM SIDE.



USE ONE OF MORE EELS AS NEEDED TO SPAN WIDTH OF DITCH. TO MAXIMIZE FLOW, ARRANGE EELS IN A CURVED, ANGLED PATTERN TO MAXIMIZE EXPOSED SURFACE AREA TO FLOW

PLAN VIEW

CHECK DAM ARRANGEMENT FOR LARGER WIDTH DITCHES FOR 9.5" AND 20"ø EELS

NOTE:
APPLICABLE TO LARGE WIDTH DITCHES WHERE ONE EEL™ IS NOT SUFFICIENT TO SPAN LENGTH.

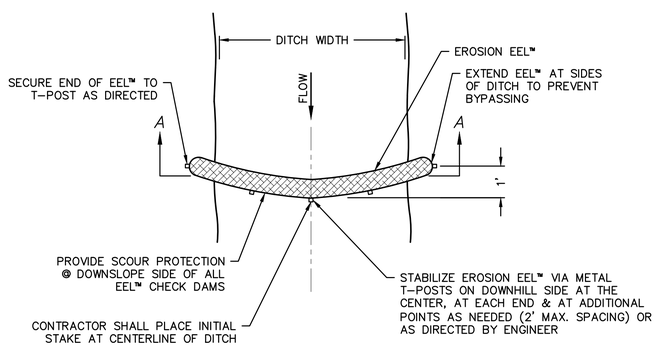
MINIMIZE OVERLAP LENGTH IN CHECK DAM APPLICATIONS TO MAXIMIZE FLOW-THROUGH CAPACITY. IN LIEU OF OVERLAPS, EEL CAN BE USED PER DETAILS

EROSION EEL DETAIL

N.T.S.

NOTE: SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS DIRECTION OF FLOW.

NOTE: TIE FLOC LOGS SECURELY AT CENTERLINE OF FLOW ON DOWNSTREAM SIDE.



PLAN VIEW

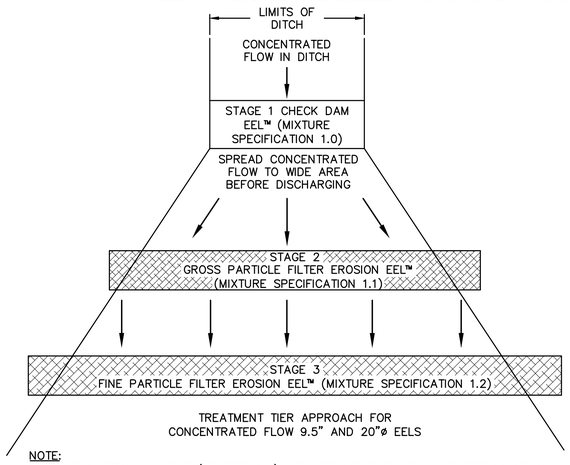
SMALL DITCH CHECKS SINGLE EEL™ (NO STACKING) FOR 9.5" AND 20"ø EELS

NOTE:
EROSION EEL™ USED FOR CHECK DAMS SHALL USE MIXTURE SPECIFICATION 1.0.

NOTE:
APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL™ TO SPAN.

EROSION EEL DETAIL

N.T.S.



TREATMENT TIER APPROACH FOR CONCENTRATED FLOW 9.5" AND 20"ø EELS

NOTE:
1. PLACE CHECK DAM EELS (MIXTURE 1.0) UPSLOPE OF EELS WITH MIXTURES 1.1 OR 1.2.
2. EELS WITH MIXTURE 1.1 SHOULD ALWAYS BE PLACED UPSLOPE OF EELS WITH FINE PARTICLE MIXTURE 1.2.

EROSION EEL DITCH OUTLET DETAIL

N.T.S.

GMC
2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
GMCNETWORK.COM

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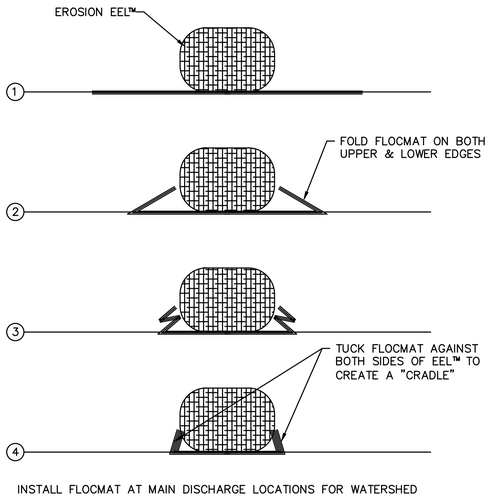
DESIGNED BY: JDL/TWS
CHECKED BY: JCP

SANITARY SEWER UTILITY RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25787 PROFESSIONAL ENGINEER JOSHUA CLINTON PRICE 3/17/2025

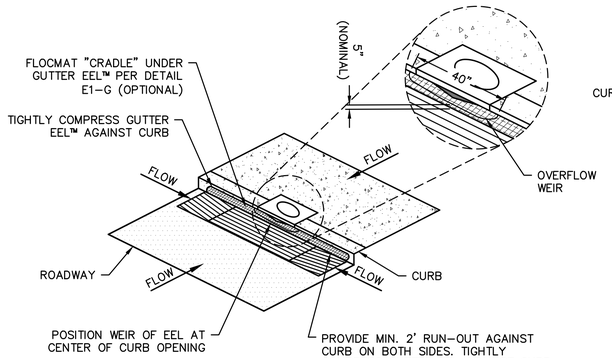
EROSION CONTROL DETAILS

C-903



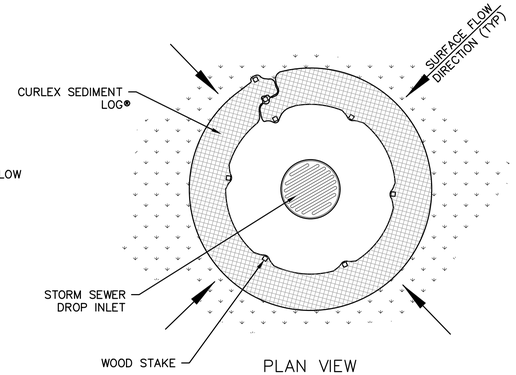
INSTALL FLOCMAT AT MAIN DISCHARGE LOCATIONS FOR WATERSHED

FLOCMAT DETAIL FOR GUTTER EEL
N.T.S.

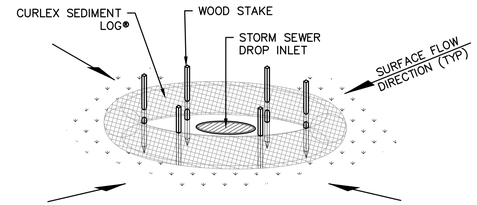


NOTE: PERIODIC MAINTENANCE SHALL INCLUDE CLEANING GUTTER EEL™ SURFACE WITH HIGH PRESSURE WASH OR BRUSHING SURFACE WITH BROOM.

ISOMETRIC DETAIL E3–C: SMALL CURB INLET SEDIMENT TRAP – GUTTER EEL
N.T.S.

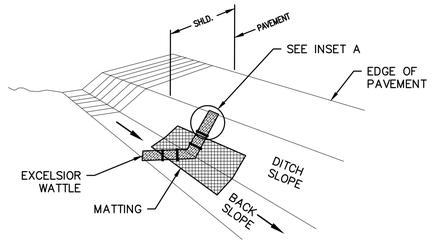


PLAN VIEW

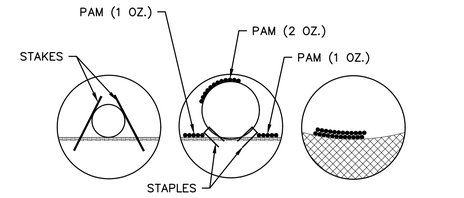


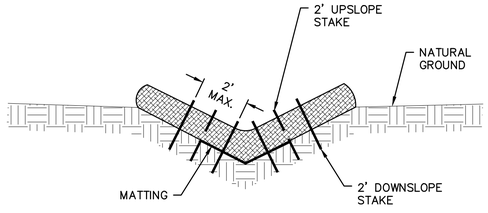
CURLEX SEDIMENT LOGS® DROP INLET PROTECTION
N.T.S.

GENERAL NOTES:
1. USE MINIMUM 12" DIAMETER FIBER WATTLE.
2. USE 2'–0" WOODEN STAKES WITH A 2"x2" NOMINAL CROSS SECTION.
3. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES & AS DIRECTED.
4. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
5. PROVIDE STAPLES MADE OF 0.125" DIAMETER STEEL WIRE FORMED INTO A "U" SHAPE NOT LESS THEN 12" IN LENGTH.
6. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
7. INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE ALDOT STANDARD SPECIFICATIONS.
8. PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
9. INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50".

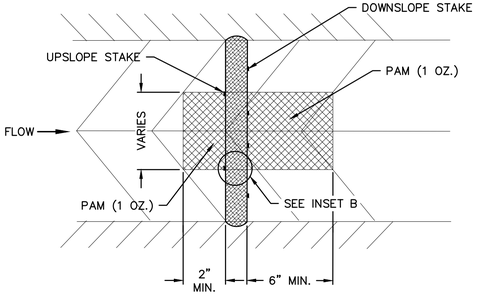


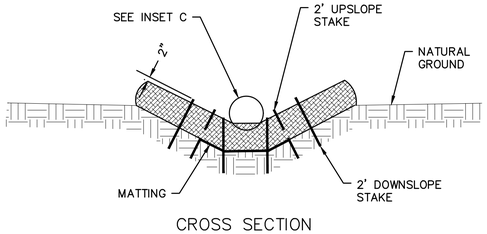
ISOMETRIC VIEW





CROSS SECTION VEE DITCH

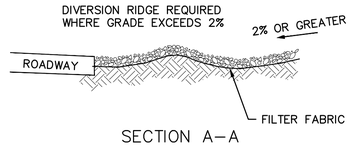




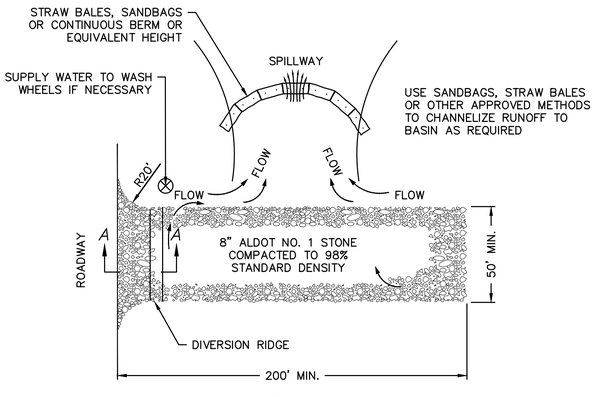
CROSS SECTION TRAPEZOIDAL DITCH

APPROVED DATE: 07/2010

TEMPORARY WATTLE CHECK DAM WITH MATTING AND OPTIONAL PAM
N.T.S.



SECTION A–A



PLAN

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT F ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD
N.T.S.

ZONE 2		
Autauga	Greene	Russell
Bibb	Hale	Sumter
Bullock	Lee	Tallapoosa
Chambers	Lowndes	Tuscaloosa
Chilton	Macon	Wilcox
Choctaw	Marengo	
Coosa	Montgomery	
Dallas	Perry	
Elmore	Pickens	

TEMPORARY SEEDING	
September through December	
Annual Ryegrass	25 pounds per acre
Kentucky 31 Fescue	30 pounds per acre
Reseeding Crimson Clover	10 pounds per acre
January through April 15	
Kentucky 31 Fescue	30 pounds per acre
Reseeding Crimson Clover	30 pounds per acre
Annual Ryegrass	15 pounds per acre
April 16 through August	
Brown Top Millet	30 pounds per acre
Kentucky 31 Fescue	30 pounds per acre
Hulled Bermuda Grass	10 pounds per acre

ZONE 2 - AREAS SUBJECT TO FREQUENT MOWING
REQUIRED POUNDS PER ACRE OF PURE LIVE SEED

Date of Planting	Aug. 16 to Feb. 29		Mar. 1 to Apr. 15	Apr. 16 to Aug. 15
Annual Ryegrass	10 {11}	25 {28}		
Hulled Bermudagrass			18 {20}	24 {27}
Unhulled Bermudagrass	30 {34}		12 {13}	
Annual Lespedeza (Kobe)				38 {43}
White Dutch Clover	5 {6}		6 {7}	
Notes	1	2		
Required Permanent Plant	Bermudagrass			

1. During this season Ryegrass, Bermudagrass and Clover are required where vegetation must be established within an area no further than 15 feet from the edge of mainline pavement.
(This is usually required for short duration work that is done on pavement resurfacing projects.)
2. Annual Ryegrass is required where vegetation must be established within an area that extends further than 15 feet form the edge of mainline pavement. Seeding in Stubble for the establishment of permanent vegitation is required during the following month of March.

GMC
2660 East Chase Lane, Suite 200
Montgomery, AL 36117
T 334.271.3200
GMCNETWORK.COM

ISSUE	DATE
PRELIMINARY	01.31.2025
FINAL	09.01.2025

DRAWN BY: SWA
DESIGNED BY: JDL/TWS
CHECKED BY: JCP

SANITARY SEWER UTILITY RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

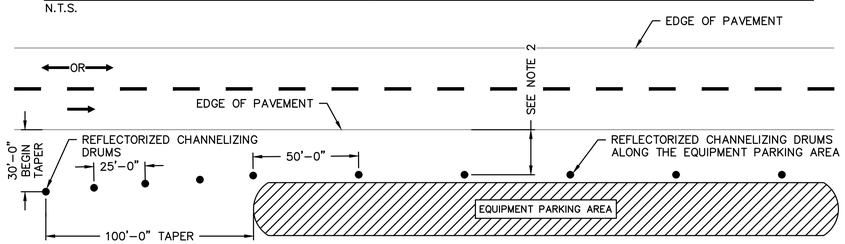
ALABAMA LICENSED No. 25767 PROFESSIONAL ENGINEER JOSHUA CLINTON PIERCE 3/17/2025

EROSION CONTROL DETAILS

C-904

DELINEATING DETAIL FOR EQUIPMENT PARKING OR STORING AREA

N.T.S.

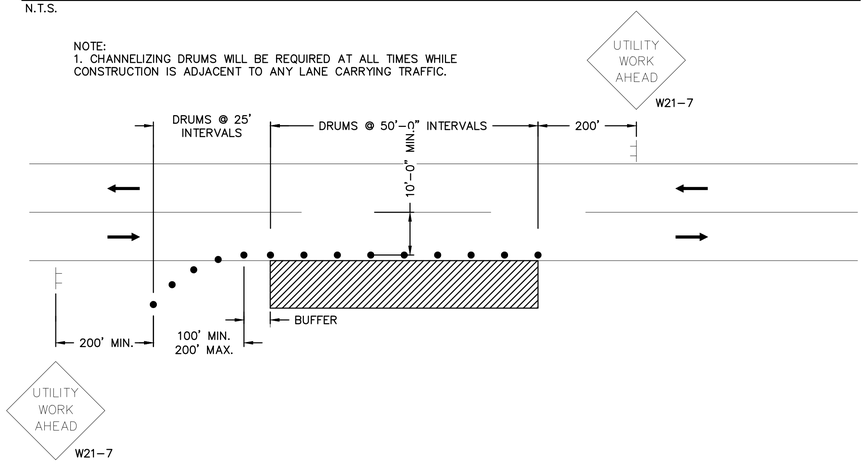


NOTES:
1. SEE ALDOT'S GENERAL TRAFFIC CONTROL PLAN NOTE NO. 702.
2. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT, MINIMUM DESIRABLE DISTANCE IS 15'–0" FOR FREEWAY TYPE FACILITIES AND 10'–0" FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE DIRECTED BY ENGINEER.
3. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

TYPICAL APPLICATION – SHOULDER WORK WITH MINOR ENCROACHMENT

N.T.S.

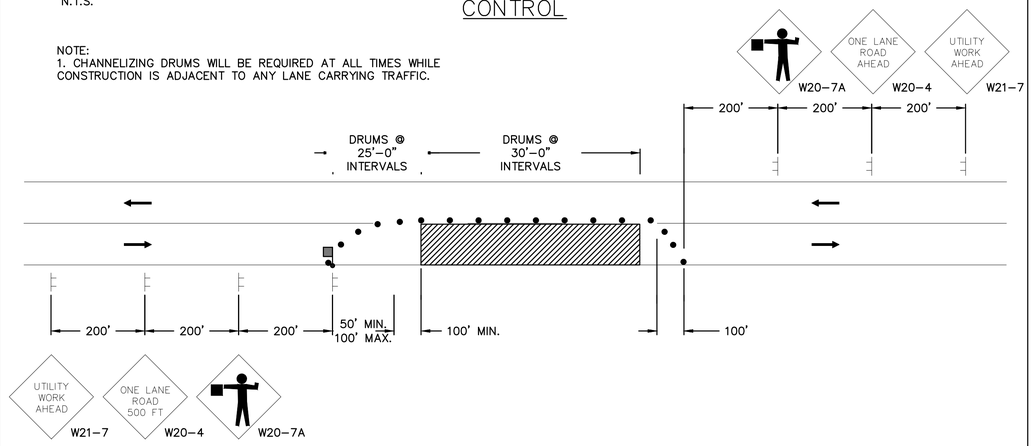
NOTE:
1. CHANNELIZING DRUMS WILL BE REQUIRED AT ALL TIMES WHILE CONSTRUCTION IS ADJACENT TO ANY LANE CARRYING TRAFFIC.



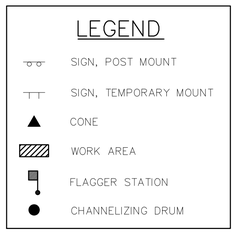
TYPICAL APPLICATION – LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL

N.T.S.

NOTE:
1. CHANNELIZING DRUMS WILL BE REQUIRED AT ALL TIMES WHILE CONSTRUCTION IS ADJACENT TO ANY LANE CARRYING TRAFFIC.



LEGEND

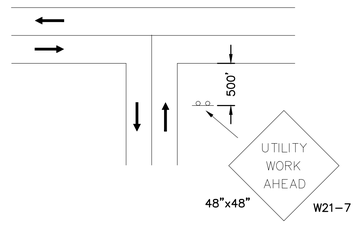


CONSTRUCTION SIGNS

SIGN	DESCRIPTION	SIZE	MOUNT	STANDARD DWG. NO.
W20–4	ONE LANE ROAD AHEAD	48"x48"	TEMP	SHS–23
W20–7A	FLAGGER	48"x48"	TEMP	SHS–23
W21–7	UTILITY WORK AHEAD	48"x48"	TEMP	SHS–23

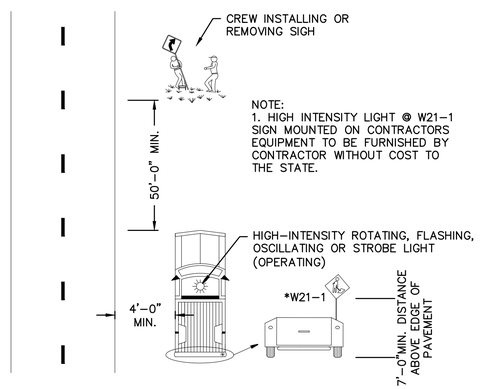
TYPICAL APPLICATION – INTERSECTING STREETS

N.T.S.



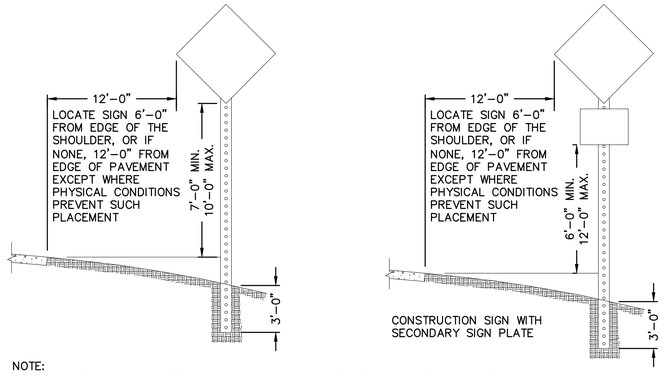
TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS

N.T.S.



HEIGHT AND LATERAL LOCATION FOR POST MOUNTED CONSTRUCTION SIGNS

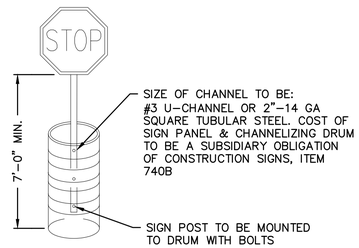
N.T.S.



NOTE:
1. IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS–710–23.

DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

N.T.S.



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RELOCATION @ SR-14
CITY OF MILLBROOK, ALABAMA
ELMORE COUNTY, ALABAMA
GMC# CMGM22-0057

ALABAMA LICENSED No. 25787 PROFESSIONAL ENGINEER CLINT LEE PIERCE 3/11/2025

TRAFFIC CONTROL DETAILS

C-905