

R

ROCKDALE WATER RESOURCES

GA. HWY. 138

8 INCH GRAVITY SEWER MAIN EXTENSION

BETWEEN HI ROC & WHITE ROAD



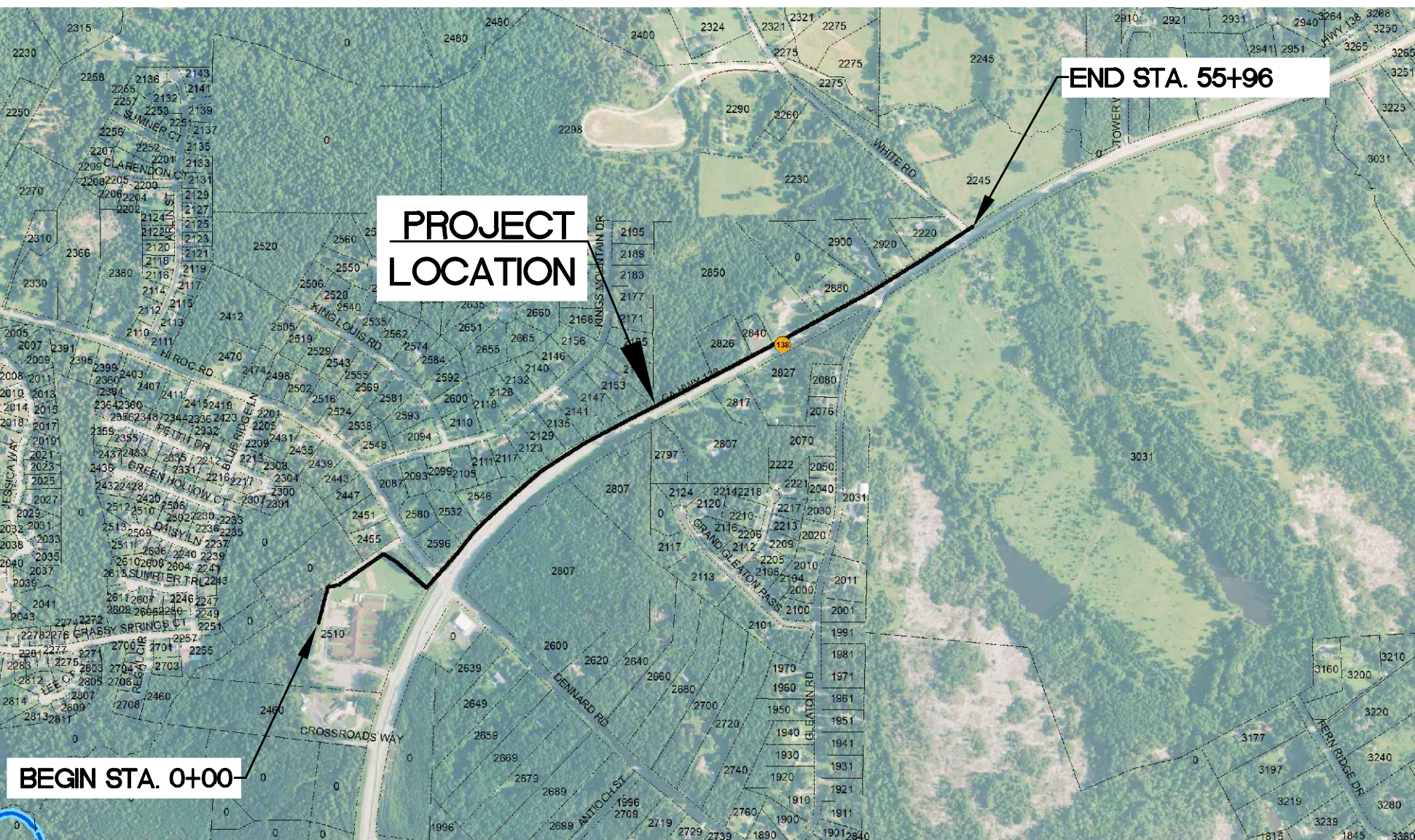
VICINITY MAP

NTS

OWNER/DEVELOPER: ROCKDALE WATER RESOURCES
958 MILSTEAD AVE. CONYERS,
GA. 30012 (770) 278-7432

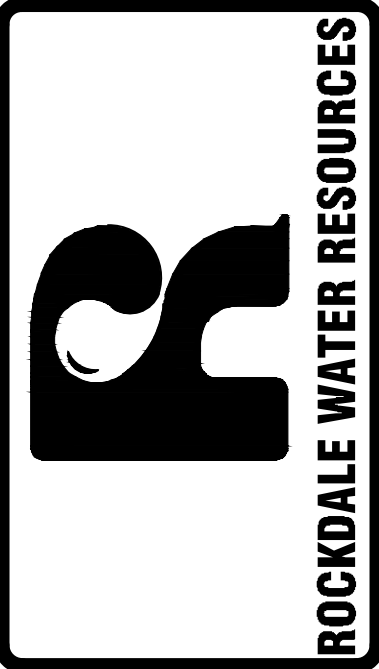
DESIGN ENGINEER: ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE, STE. H
CONYERS, GA. 30012
CONTACT: DAVID CERVONE
(770) 278-7486

SITE ADDRESS: SITE: 2245 WHITE ROAD NE.
CONYERS, GA. 30012



LOCATION MAP

NTS



REVISION				DESCRIPTION	
No.	DATE	No.	DATE	DESCRIPTION	DESCRIPTION
1	12/07/2022			ISSUED FOR BID	

TITLE, VICINITY AND LOCATION

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

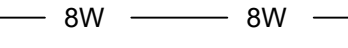
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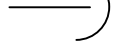
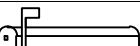
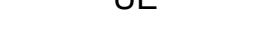
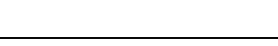
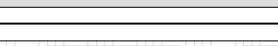
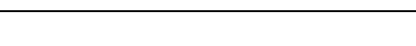
DRAWING LIST		
SHEET	DRAWING No.	DESCRIPTION
GENERAL		
1	G-00	TITLE, VICINITY AND LOCATION MAP
2	G-01	DRAWING LIST, SYMBOLS & ABBREVIATIONS
3	G-02	GENERAL NOTES
4	G-03	SITE PLAN
CIVIL		
5	C-01	PLAN AND PROFILE
6	C-02	PLAN AND PROFILE
7	C-03	PLAN AND PROFILE
8	C-04	PLAN AND PROFILE
9	C-05	PLAN AND PROFILE
10	C-06	PLAN AND PROFILE
11	C-07	CIVIL DETAILS
12	C-08	EROSION CONTROL PLAN
13	C-09	EROSION CONTROL PLAN
14	C-10	EROSION CONTROL PLAN
15	C-11	EROSION CONTROL NOTES
16	C-12	EROSION CONTROL NOTES
17	C-13	EROSION CONTROL NOTES
18	C-14	EROSION CONTROL DETAILS
19	C-15	EROSION CONTROL USGS MAP

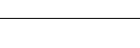
ABBREVIATIONS	
BLDG	BUILDING
CL	CENTER LINE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE
HDPE	HIGH-DENSITY POLYETHYLENE
DR	DRIVE
ELEV	ELEVATION
EX	EXISTING
E/P	EDGE OF PAVEMENT
FT	FEET
FH	FIRE HYDRANT
I.D.	INSIDE DIAMETER
IP	IRON PIN
IPF	IRON PIN FOUND
IPS	IRON PIN SET
LAT	LATITUDE
LONG	LONGITUDE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
FO	FIBER OPTIC
P/L	PROPERTY LINE
LP	LIGHT POLE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RWR	ROCKDALE WATER RESOURCES
R/W	ROAD RIGHT OF WAY
CB	CATCH BASIN
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
YI	YARD INLET
HW	HEADWALL
MH	MANHOLE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
INV	INVERT
PROP	PROPOSED

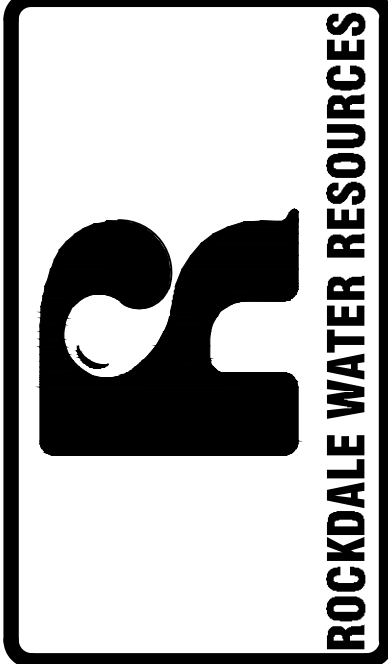
ABBREVIATIONS	
MB	MAIL BOX
STMH	STORM WATER MANHOLE
B/C	BACK OF CURB
FES	FLARED END SECTION
CMP	CORRUGATED METAL PIPE
UP	UTILITY/POWER POLE
TSP	TRAFFIC SIGNAL POLE

SEWER LEGEND	
	S SEWER-ARV EXISTING
	S SEWER-ARV PROPOSED
	S SEWER-MANHOLE EXISTING
	S SEWER-MANHOLE PROPOSED
	S SEWER-VALVE EXISTING
	S SEWER-VALVE PROPOSED
	S SEWER-LIFT STATION EXISTING
	S SEWER-WET WELL EXISTING
	S SEWER-EXISTING MAIN, SIZE & FLOW
	S SEWER-PROPOSED MAIN

WATER LEGEND	
	WATER-HYDRANT EXISTING
	WATER-HYDRANT PROPOSED
	WATER-METER EXISTING
	WATER-METER PROPOSED
	WATER-VALVE EXISTING
	WATER-VALVE PROPOSED
	WATER-EXISTING MAIN & SIZE
	WATER-PROPOSED MAIN & SIZE

GENERAL LEGEND	
	UTILITY POLE
	UTILITY/POWER POLE
	LIGHT POLE
	GUY WIRE
	TRAFFIC SIGNAL POLE
	STREET SIGN
	REVISION CLOUD
	SOIL BORE LOCATION
	MAIL BOX EXISTING
	CONTOURS-EXISTING
	GAS MAIN
	OVERHEAD POWER
	UNDERGROUND POWER
	UNDER GROUND TELEPHONE
	EXISTING PAVEMENT
	CONSTRUCTION LIMITS

STORM LEGEND	
	STORM WATER-JUNCTION BOX EXISTING
	STORM WATER-MANHOLE EXISTING
	STORM WATER-SINGLE WING CATCH BASIN EXISTING
	STORM WATER-DOUBLE WING CATCH BASIN EXISTING
	STORM WATER-CIRCULAR WEIR INLET EXISTING
	STORM WATER-RECTANGULAR WEIR INLET EXISTING
	STORM WATER-CIRCULAR GRATED INLET EXISTING
	STORM WATER-RECTANGULAR GRATED INLET EXISTING
	STORM WATER PIPE-EXISTING MAIN



REVISION		DESCRIPTION		DATE	
No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION
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2	11/1/20		2	11/1/20	
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8	11/1/20		8	11/1/20	
9	11/1/20		9	11/1/20	
10	11/1/20		10	11/1/20	

DRAWING LIST, SYMBOLS & ABBREVIATIONS	
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DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 04/15/2020
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET	DRAWING No.
2	G-01

PIPELINE CONSTRUCTION NOTES:

1. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

2. OPEN TRENCHES IN EXISTING ASPHALT SHALL BE PLATED OVERNIGHT WITH NON SKID STEEL PLATES.

3. ALL BACKFILL AND UNDISTURBED EARTH SHALL HAVE A MINIMUM DENSITY OF 90% STANDARD PROCTOR. COMPACTION UNDER ROADWAYS TO BE A MINIMUM OF 98% STANDARD PROCTOR DENSITY. TEST IN ACCORDANCE WITH ASTM D698.

4. UNLESS OTHERWISE NOTED, STATION ON PLANS REFERS TO CENTERLINE OF PIPELINE AND IS BASED ON HORIZONTAL DISTANCES.

5. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER, WHO WILL DETERMINE THE INTENT OF THE DESIGN.

6. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON RECORD DRAWINGS. POTHOLE AND SURVEY EXISTING UTILITIES THAT WILL BE AFFECTED BY TRENCHING OR EXCAVATIONS PRIOR TO ORDERING ANY MATERIALS. POTHOLAS AND SURVEY DATA SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW. POTHOLE DATA SHALL INCLUDE EXISTING UTILITY HORIZONTAL LOCATION, PIPE ELEVATION, PIPE ANGULAR CONFIGURATION, AND MATERIALS OF CONSTRUCTION. IDENTIFY POTENTIAL CONFLICTS WITH THE NEW PIPE LOCATION. PIPE ALIGNMENT ADJUSTMENTS THAT DO NOT INCREASE OVERALL PIPE OR FITTING QUANTITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE RWR.

7. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

8. FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION, DIAMETER, AND ORIENTATION AT ALL CONNECTION POINTS AND COORDINATE WITH RWR PRIOR TO CONSTRUCTION. PROVIDE ALL PIPE MATERIALS AND FITTINGS, AS REQUIRED TO MEET EXISTING FIELD CONDITIONS FOR A COMPLETE INSTALLATION.

9. REPAIR DAMAGE TO LANDSCAPING, PAVING, UTILITIES, CURBS, GUTTERS, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.

10. PAVEMENT CUTS SHALL BE PERFORMED BY SAW CUTTING OR GRINDING. RECUR PAVEMENT PRIOR TO REPAVING WHERE UNDERMINING HAS OCCURRED.

11. REPLACE TRAFFIC STRIPING OR STENCILING THAT IS OBLITERATED BY CONSTRUCTION TO THE SATISFACTION OF RWR.

12. MAINTAIN 36" MINIMUM PIPELINE COVER PER RWR UNLESS OTHERWISE SHOWN ON THE PLANS OR UNLESS REDUCED DEPTH IS SPECIFICALLY APPROVED BY THE ENGINEER.

13. MAINTAIN A 10'-0" HORIZONTAL DISTANCE BETWEEN WATERLINE AND SANITARY SEWER PIPE LINES. MAINTAIN AN 18" VERTICAL SEPARATION BETWEEN WATERLINE AND SANITARY SEWER PIPE.

14. SHOULD ANY PAVEMENT BE DAMAGED AS A RESULT OF THE PROPOSED WORK, IT SHALL BE REPAIRED AND RESURFACED BY CONTRACTOR.

15. REMOVAL AND REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

16. TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH PLANS AND SPECIFICATION SECTION 02200.

17. HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. FURNISH AND INSTALL THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.

18. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS.

19. DELETERIOUS MATERIALS AND EXCAVATED MATERIALS NOT USED IN BACKFILL OR GRADING SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.

20. CONCRETE TRUCKS SHALL BE CLEANED IN DESIGNATED AREAS WITH WATER PROOF LINING IN COMPLIANCE WITH THE SWPPP AND OTHER PERMITS. ALL WASTE AND MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.

21. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.

22. ANY FENCES, MAILBOXES, OR OTHER PERMANENT STRUCTURES IN THE PATH OF THE PROPOSED SEWER LINE SHALL BE (IF NECESSARY) TEMPORARILY REMOVED PRIOR TO INSTALLATION AND REPLACED IN THE ORIGINAL LOCATION BEFORE GRASSING AND SEEDING. THESE TEMPORARILY REMOVED LINES MUST NOT REMAIN OUT OF SERVICE FOR MORE THAN 12 HOURS. MAILBOXES SHALL BE REPLACED, IF NECESSARY, AT NO ADDITIONAL COST TO THE OWNER.

23. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK, INCLUDING SPOIL PILES, BE PERFORMED WITHIN THE RIGHT-OF-WAY. IN AREAS WHERE THIS CAN NOT BE ACCOMPLISHED, OR WHERE THE SEWER LINE CROSSES PRIVATE PROPERTY, EASEMENT SHOULD BE OBTAINED.

24. SPOIL PILES ARE NOT TO BE PLACED ON THE PAVEMENT.

25. ALL DISTURBED DRAINAGE DITCHES AND SWALES SHALL BE RECONSTRUCTED TO THEIR ORIGINAL CONDITIONS TO PROVIDE POSITIVE DRAINAGE FOR UPSTREAM RUNOFF THROUGH DISTURBED AREA TO EXISTING DOWNSTREAM ELEMENTS OF THE DRAINAGE SYSTEM.

26. CONTRACTOR WILL COMPLY WITH OSHA STANDARDS.

27. ALL COSTS FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INCLUDED IN THE BID PACKAGE.

28. ANY ROCKDALE COUNTY INFRASTRUCTURE OR PROPERTY DAMAGED DURING, OR AS RESULT OF, CONSTRUCTION OF THIS PROJECT WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF ROCKDALE COUNTY. [THIS INCLUDES, FOR EXAMPLE (BUT NOT LIMITED TO) PAVING, CURB, CURB/GUTTER, SHOULDERS, DITCHES, STORM DRAINAGE PIPES OR STRUCTURES; SIGNS; WATER DISTRIBUTION LINES OR APPURTENANCES, WATER TREATMENT FACILITIES, FIRE HYDRANTS, VALVES, METERS; WASTEWATER (SANITARY SEWER), COLLECTION LINES OR APPURTENANCES, MANHOLES OR OTHER STRUCTURES, FORCE MAINS, PUMP STATIONS OR APPURTENANCES; LANDSCAPING OR PLANT MATERIALS, INCLUDING MULCH, GRASSING, SHRUBBERY, TREES; STRUCTURES OF ANY NATURE, INCLUDING FENCING.]

29. NO WORK WILL BE PERFORMED ON PRIVATE PROPERTY UNLESS AN APPROPRIATE EASEMENT HAS BEEN OBTAINED OR THE ROCKDALE COUNTY BOARD OF COMMISSIONERS HAVE APPROVED A WORK ON PRIVATE PROPERTY FORM.

GENERAL CONSTRUCTION NOTES:

1. WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. NOTIFY THE RWR REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.

3. OBTAIN REQUIRED PERMITS AND NECESSARY DISTRICT BUSINESS LICENSE(S) PRIOR TO BEGINNING CONSTRUCTION.

4. TRAFFIC CONTROL COSTS SHALL BE INCLUDED IN THE BID. PROCEDURES SHALL CONFORM TO THE ROCKDALE COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION, IF REQUIRED AND IN ACCORDANCE WITH ALL APPLICABLE PERMITS, AND WITH THE SPECIFICATIONS. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW.

5. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS REFERENCED IN THE SPECIFICATIONS AND PERMITS.

6. CONTRACTOR SHALL BE RESPONSIBLE, DURING THE CONSTRUCTION PROCESS, FOR THE LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S (OR SUBCONTRACTOR'S) EFFORTS DURING THE CONSTRUCTION OF THIS PROJECT.

7. ALL PRIVATE AND PUBLIC PROPERTY, WHICH IS OFF-SITE OR IN EASEMENTS ON-SITE, THAT IS AFFECTED BY THIS WORK, SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.

8. DURING CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, OBSERVE, FOLLOW AND IMPLEMENT THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE CLEAN FROM RUBBISH AND DEBRIS. ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR THEIR METHODS AS DIRECTED BY THE RWR'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.

9. KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE RWR. ALSO COORDINATE TRANSFERRING "AS-BUILT" INFORMATION ON THE CONTRACT DRAWINGS AND DELIVER THE CERTIFIED "AS-BUILT" PLANS TO THE DISTRICT BEFORE THE RELEASE FOR FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.

10. EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO COUNTY & CITY STREETS, INCLUDING HAUL ROUTES, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE RWR REPRESENTATIVE.

11. DESIGNATE AND KEEP ON THE PROJECT WHILE WORK IS BEING PERFORMED A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT A WRITTEN NOTICE TO THE RWR'S REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, MAKE APPROPRIATE ARRANGEMENTS FOR EMERGENCY WORK WHICH WILL BE REQUIRED.

12. WHEN THE WORK ON ANY PORTION OF IT IS SUFFICIENTLY COMPLETE TO BE UTILIZED OR PLACED INTO SERVICE, RWR SHALL HAVE THE RIGHT UPON WRITTEN NOTIFICATION TO THE CONTRACTOR TO UTILIZE SUCH PORTIONS OF THE WORK AND TO PLACE THE OPERABLE PORTIONS INTO SERVICE AND TO OPERATE SAME. UPON SAID NOTICE AND COMMENCEMENT OF UTILIZATION OR OPERATION BY THE RWR, THE CONTRACTOR SHALL BE RELIEVED OF THE DUTY OF MAINTAINING THE PORTIONS SO UTILIZED OR PLACED INTO OPERATION; PROVIDED, HOWEVER, THAT NOTHING IN THIS NOTE SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR COMPLETING THE WORK IN ITS ENTIRETY, FOR MAKING GOOD DEFECTIVE WORK AND MATERIALS, FOR PROTECTING THE WORK FROM DAMAGE, AND FOR BEING RESPONSIBLE FOR DAMAGE.

13. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK; AND FULLY COMPLY WITH STATE/FEDERAL AND OTHER LAWS, RULES, REGULATIONS, AND ORDER RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS INCLUDES THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.

14. THE WORK AT HIGHTOWER TRAIL ELEMENTARY SHALL BE PERFORMED DURING NON SCHOOL HOURS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH SCHOOL STAFF AND RWR.

15. UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY RWR OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. NOTIFY RWR OF THE UTILITIES CONCERNED BEFORE STARTING WORK.

16. TYPICAL DETAILS APPLY WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED ON INDIVIDUAL PLANS, DETAILS OR SECTIONS.

17. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICT BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO RWR REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.

18. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN ASCE 38-02 UNLESS OTHERWISE INDICATED.

19. NO SMOKING IS ALLOWED WITHIN THE JOBSITE OR SITE ACCESS AREAS, A FIRE SPOTTER, FIRE EXTINGUISHER, ADEQUATE WATER SUPPLY AND SHOVELS SHALL BE AVAILABLE AND WITHIN REACH AT ALL TIMES DURING ANY WELDING OR TORCH WORK. THIS JOBSITE IS IN AN EXTREMELY HAZARDOUS FIRE AREA.

20. VIDEO RECORD AND DOCUMENT THE EXISTING CONDITION OF THE PROJECT LIMITS AND SUBMIT THE RECORDING AND DOCUMENT TO THE RWR PRIOR TO THE START OF CONSTRUCTION.

21. MAKE ARRANGEMENTS FOR EQUIPMENT, MATERIAL STORAGE & YARD SECURITY.

22. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER'S REPRESENTATIVE. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.

23. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS FOR THIS PROJECT ONLY.

24. PROVIDE TEMPORARY FENCING TO MAINTAIN SECURITY AT ALL TIMES.

25. CONDUCT OPERATIONS TO RESULT IN THE LEAST POSSIBLE OBSTRUCTION INCONVENIENCE TO THE PUBLIC, AND HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT CAN BE PERFORMED PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC OR AS STATED IN THE PERMITS. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES AND BUILDINGS ALONG THE WORK SHALL BE MAINTAINED.

TOPOGRAPHIC MAPPING

THE TOPOGRAPHIC/PLANIMETRIC INFORMATION SHOWN HEREON WAS COMPILED FROM DATA COLLECTED FROM ROCKDALE WATER RESOURCES(RWR) GEOGRAPHIC INFORMATION SYSTEM MAP LAYERS, GPS SURVEY BY RWR, SURVEY BY CORPORATE ENVIRONMENTAL RISK MANAGEMENT, LLC (CERM).

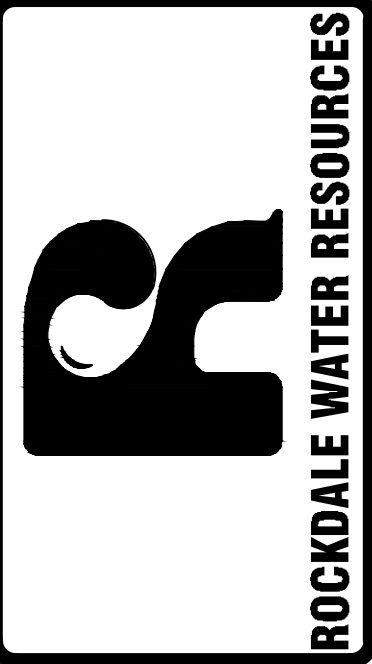
GRADING NOTES:

1. ALL FILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

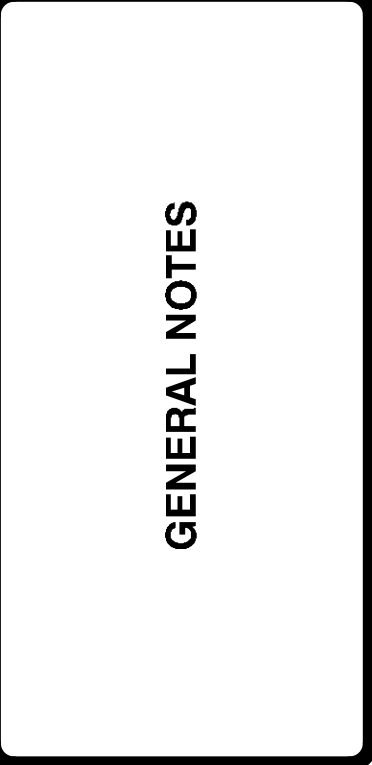
2. PROVIDE PROTECTION AGAINST EROSION AND STORM WATER POLLUTION PER EROSION CONTROL PLANS.

3. EXISTING CONTOURS ARE APPROXIMATE AND BASED ON GROUND CONDITIONS SURVEYED PRIOR TO DESIGN. IF THE GRADES AND ELEVATIONS ARE DIFFERENT THAN THE GRADES AND ELEVATIONS SHOWN IN THE PLAN, THE CONTRACTOR SHALL NOTIFY RWR.

4. THE SLOPE OF EXCAVATIONS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, AND OTHER WASTE MATERIALS EXPOSED ON THE EXCAVATION OR EMBANKMENT SLOPES WHICH ARE UNABLE TO BE LOOSENEED SHALL BE REMOVED AND DISPOSED OF. THE TOE AND TOP OF ALL SLOPES SHALL BE ROUNDED TO BLEND IN WITH THE NATURAL GROUND CONTOURS.



REVISION			
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DESIGNED BY: DAVID CERVONE

DRAWN BY: WALT BOBO

CHECKED BY: DAVID CERVONE

DATE: 02/22/2022

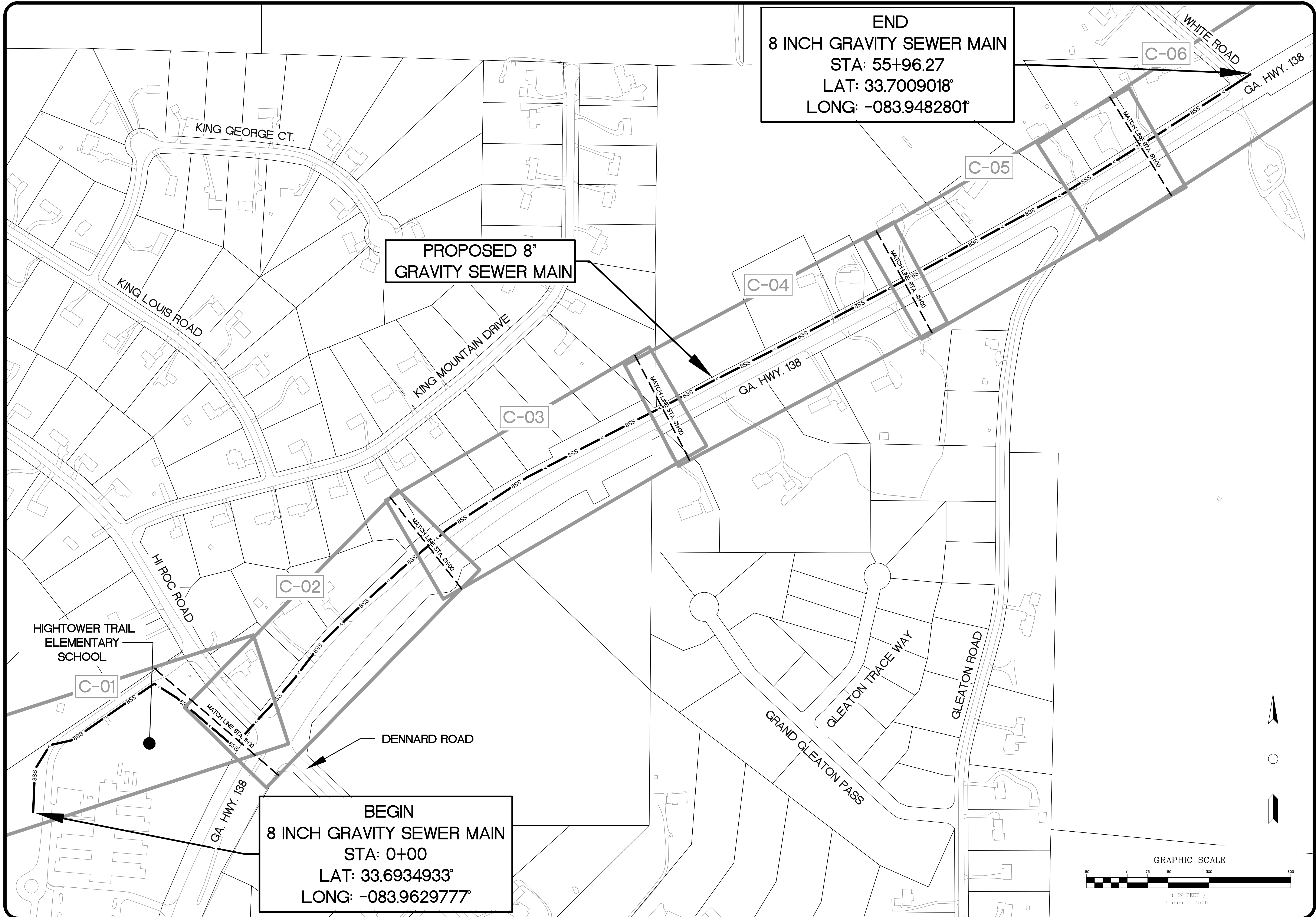
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET

DRAWING No.

3

G-02



END
8 INCH GRAVITY SEWER MAIN
STA: 55+96.27
LAT: 33.7009018°
LONG: -083.9482801°

PROPOSED 8"
GRAVITY SEWER MAIN

BEGIN
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STA: 0+00
LAT: 33.6934933°
LONG: -083.9629777°



ROCKDALE WATER RESOURCES



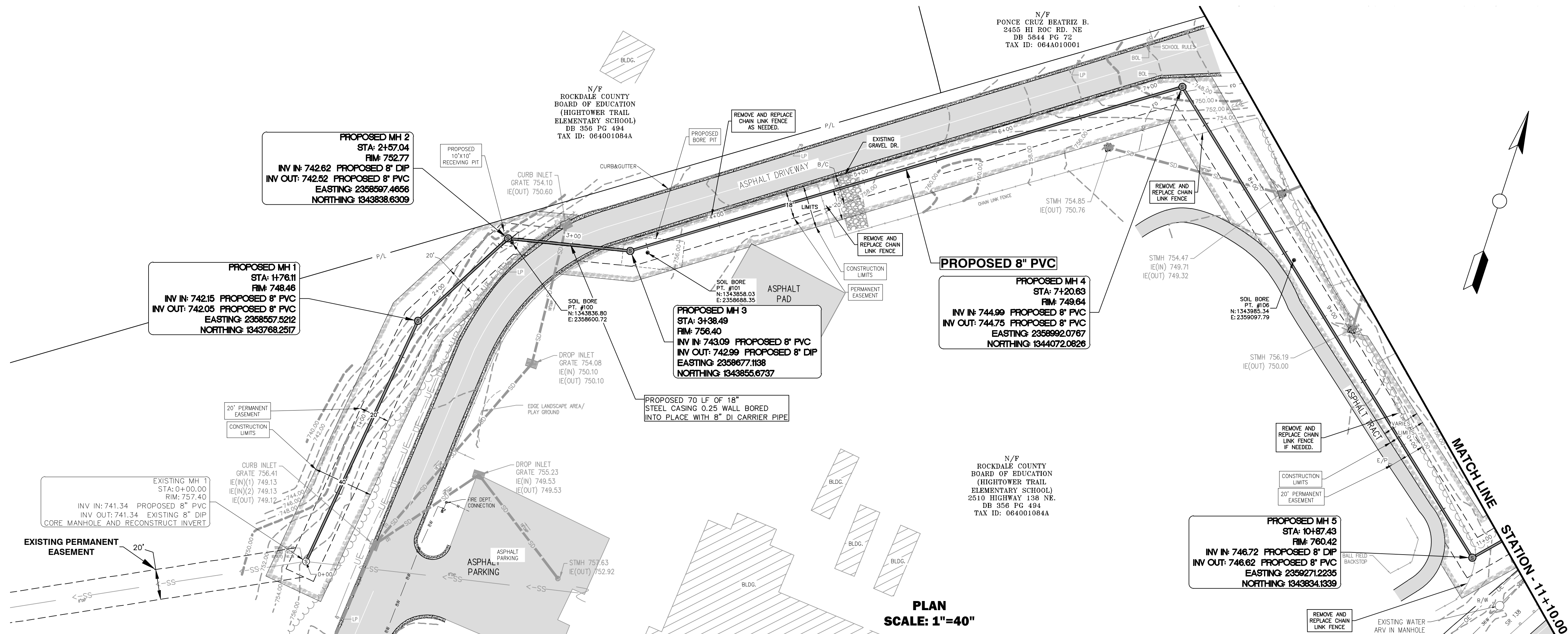
GEORGIA 811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

REVISION			
No.	DATE	DESCRIPTION	

SITE PLAN

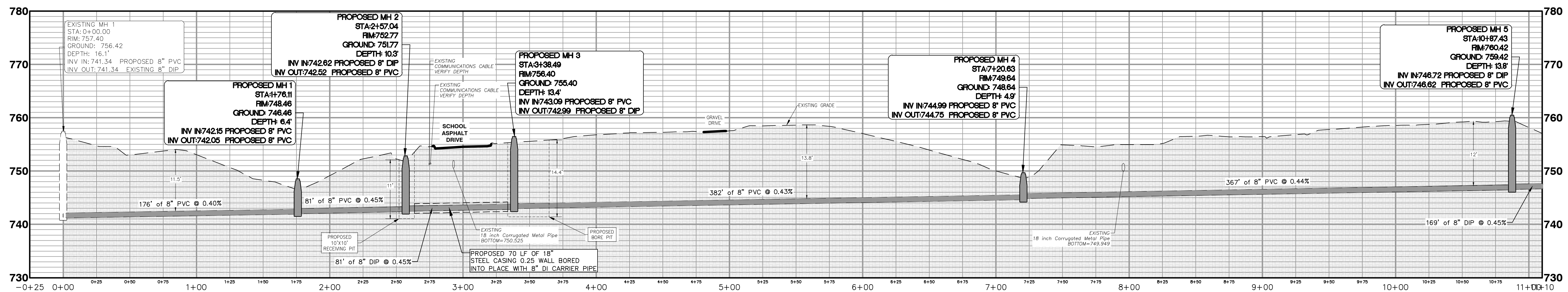
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DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET	DRAWING No.
4	G-03



PLAN
SCALE: 1"=40"

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



David Cervone

SEAL

ROCKDALE WATER RESOURCES

GEORGIA811

REVISION	
No.	DESCRIPTION

PLAN AND PROFILE

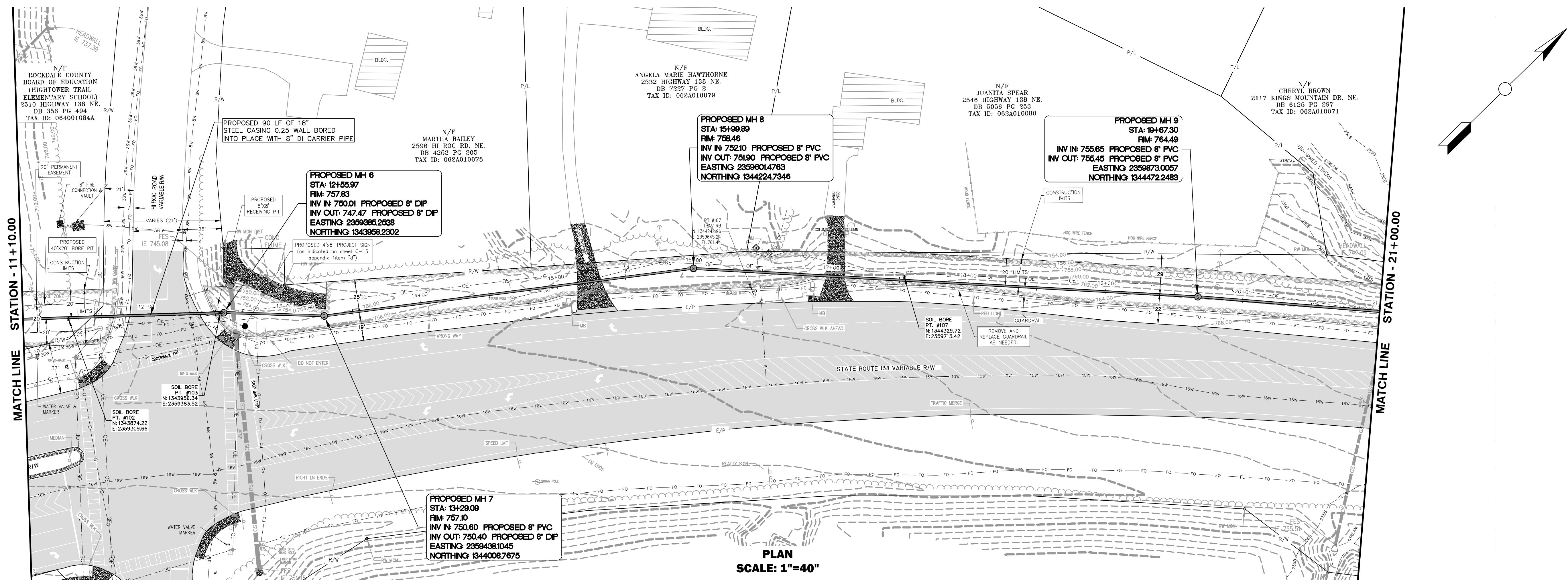
DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
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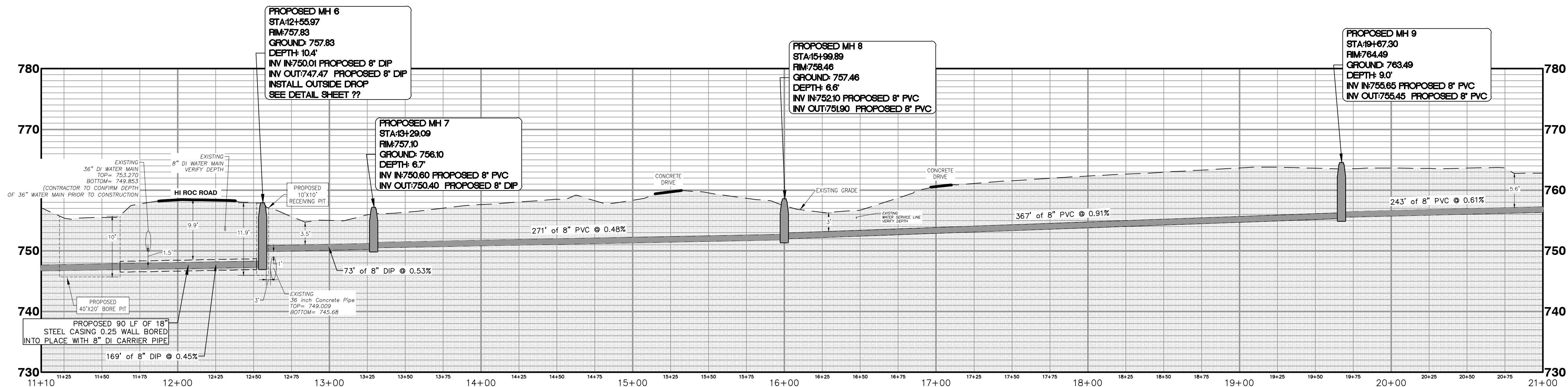
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C-01



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PROFILE
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REVISION	
No.	DESCRIPTION

DESIGNED BY: DAVID CERVONE

DRAWN BY: WALT BOBO

CHECKED BY: DAVID CERVONE

DATE: 02/22/2022

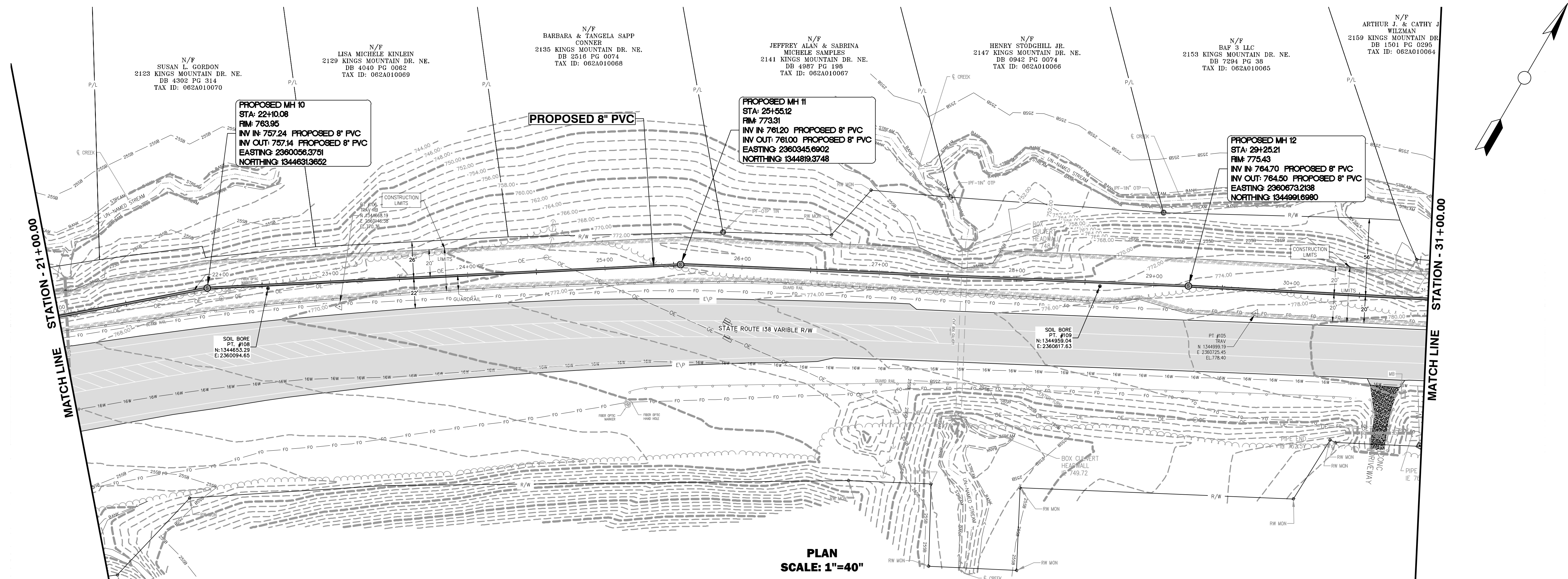
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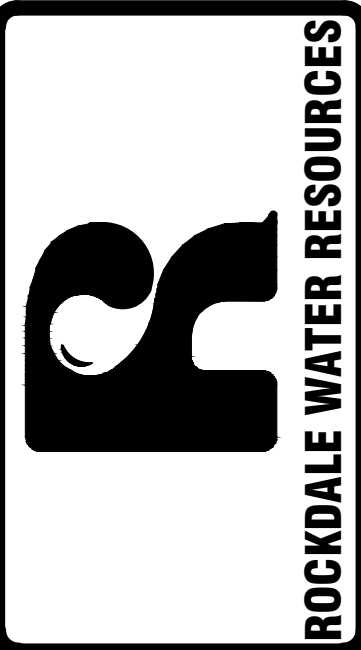
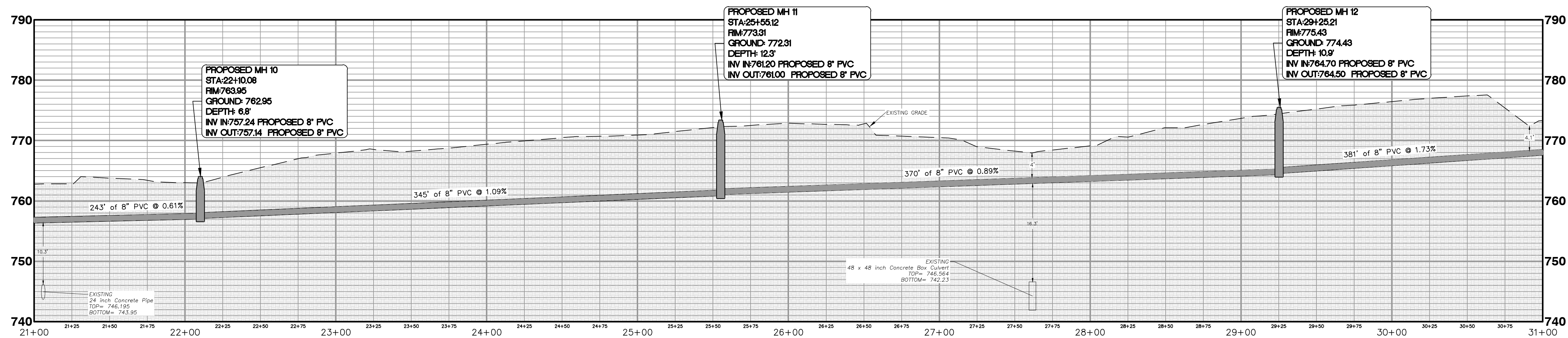
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C-02



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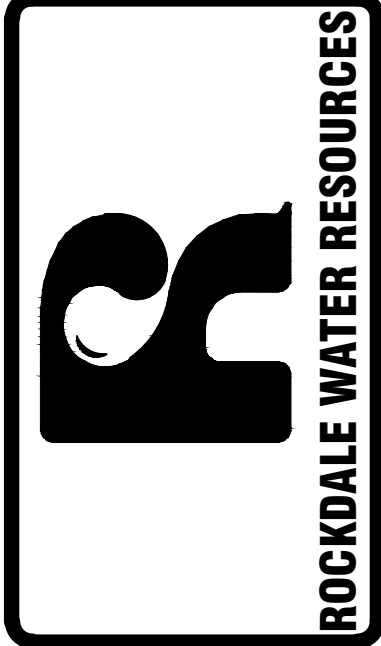
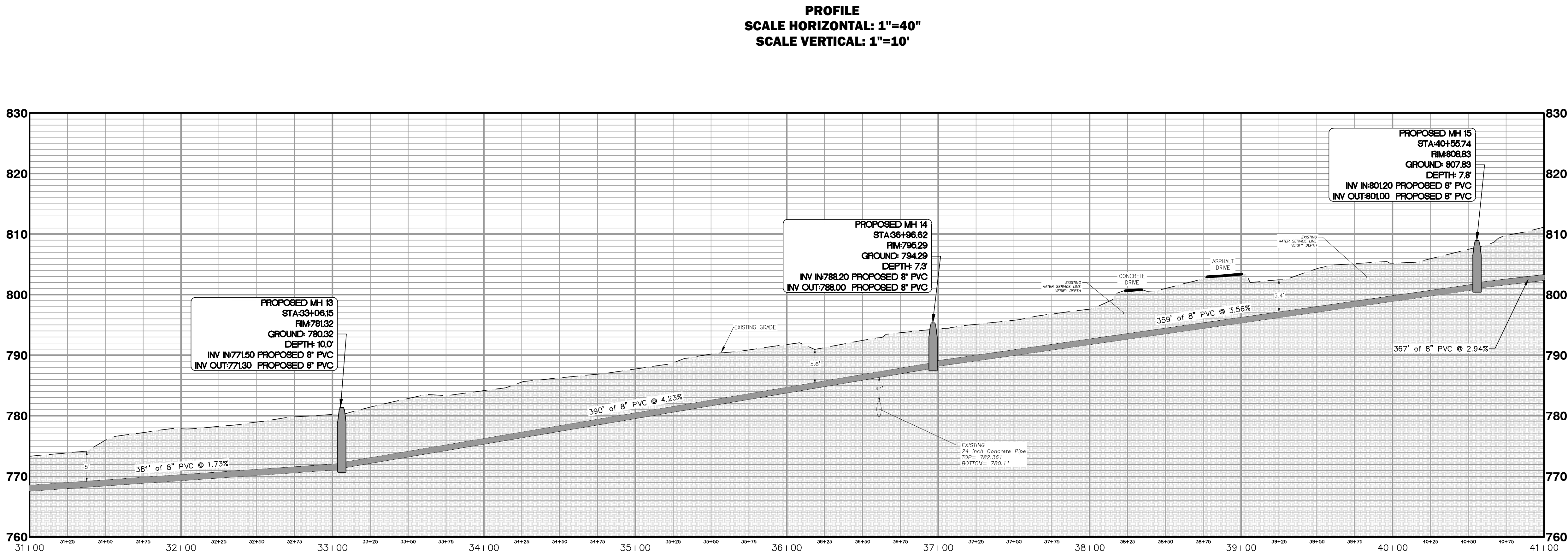
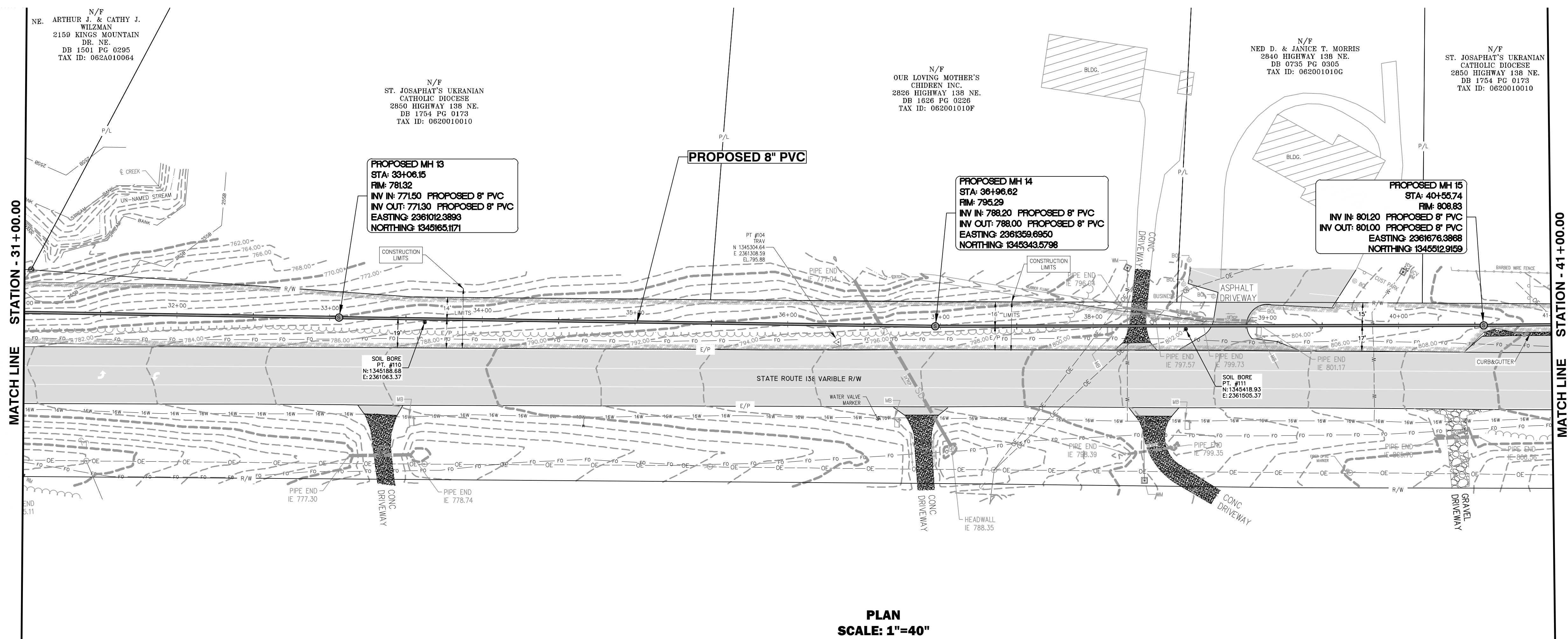


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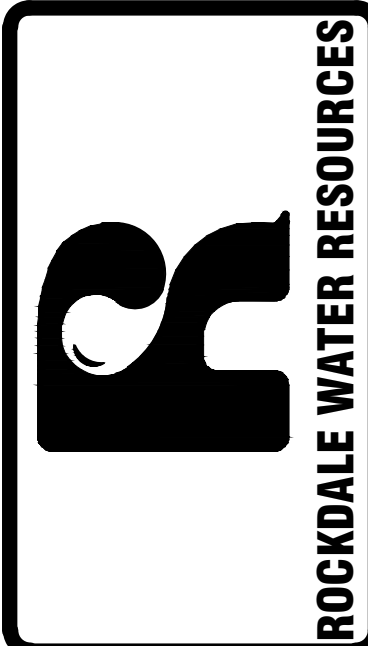
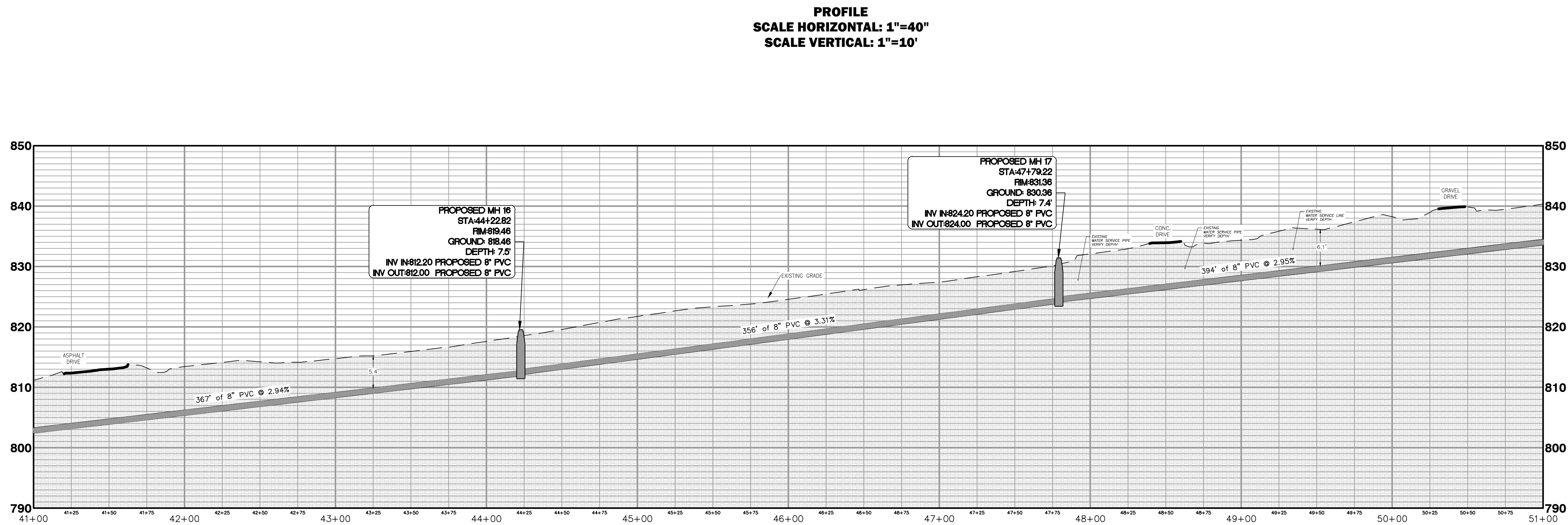
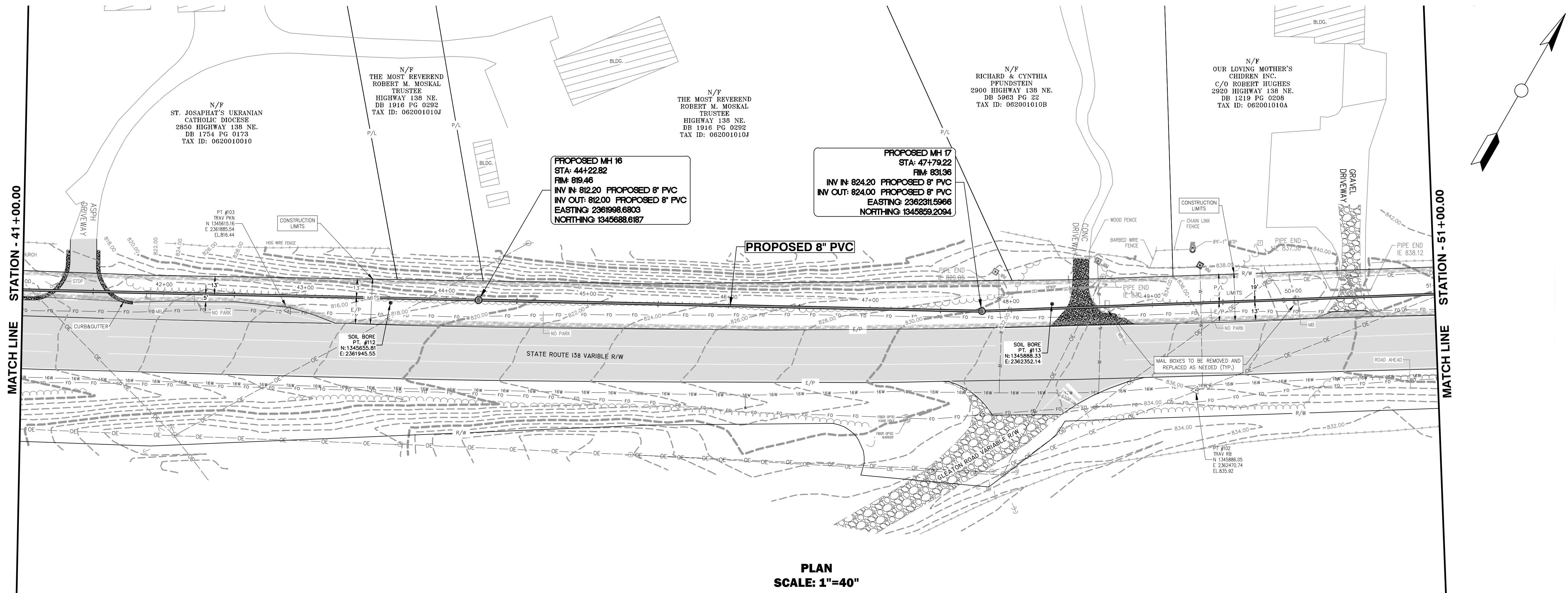
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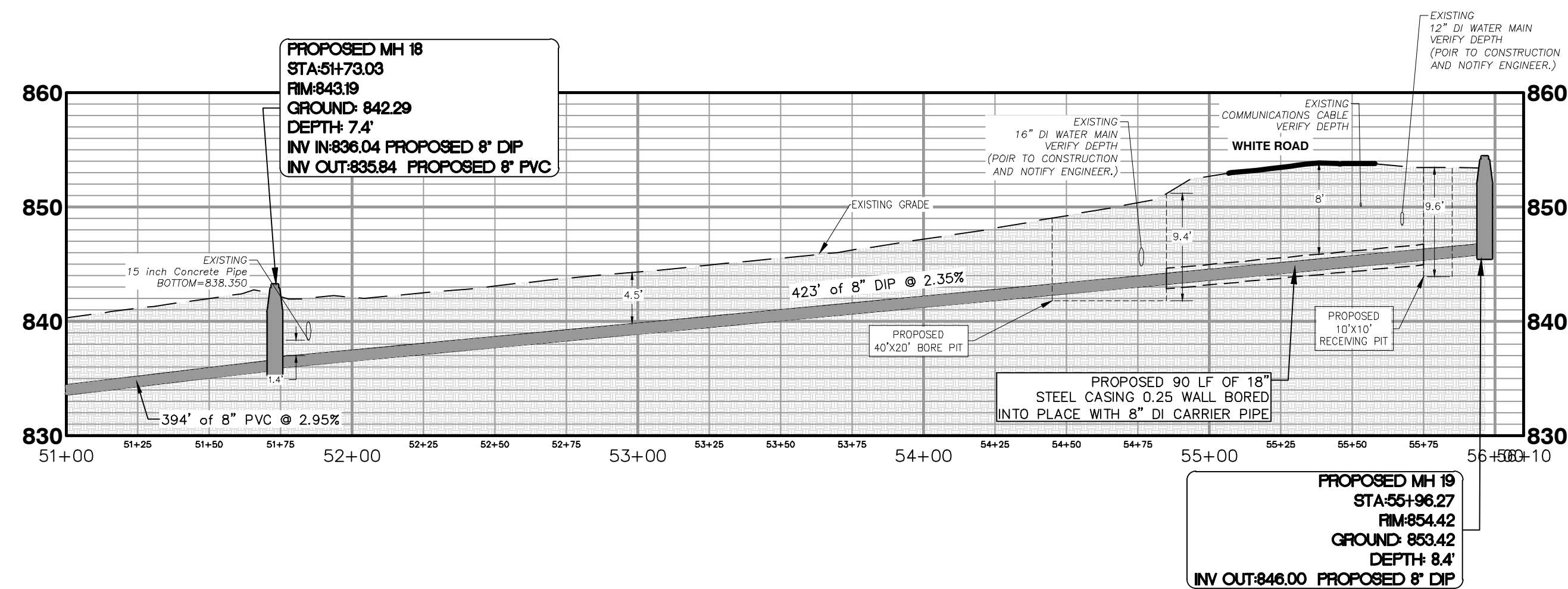
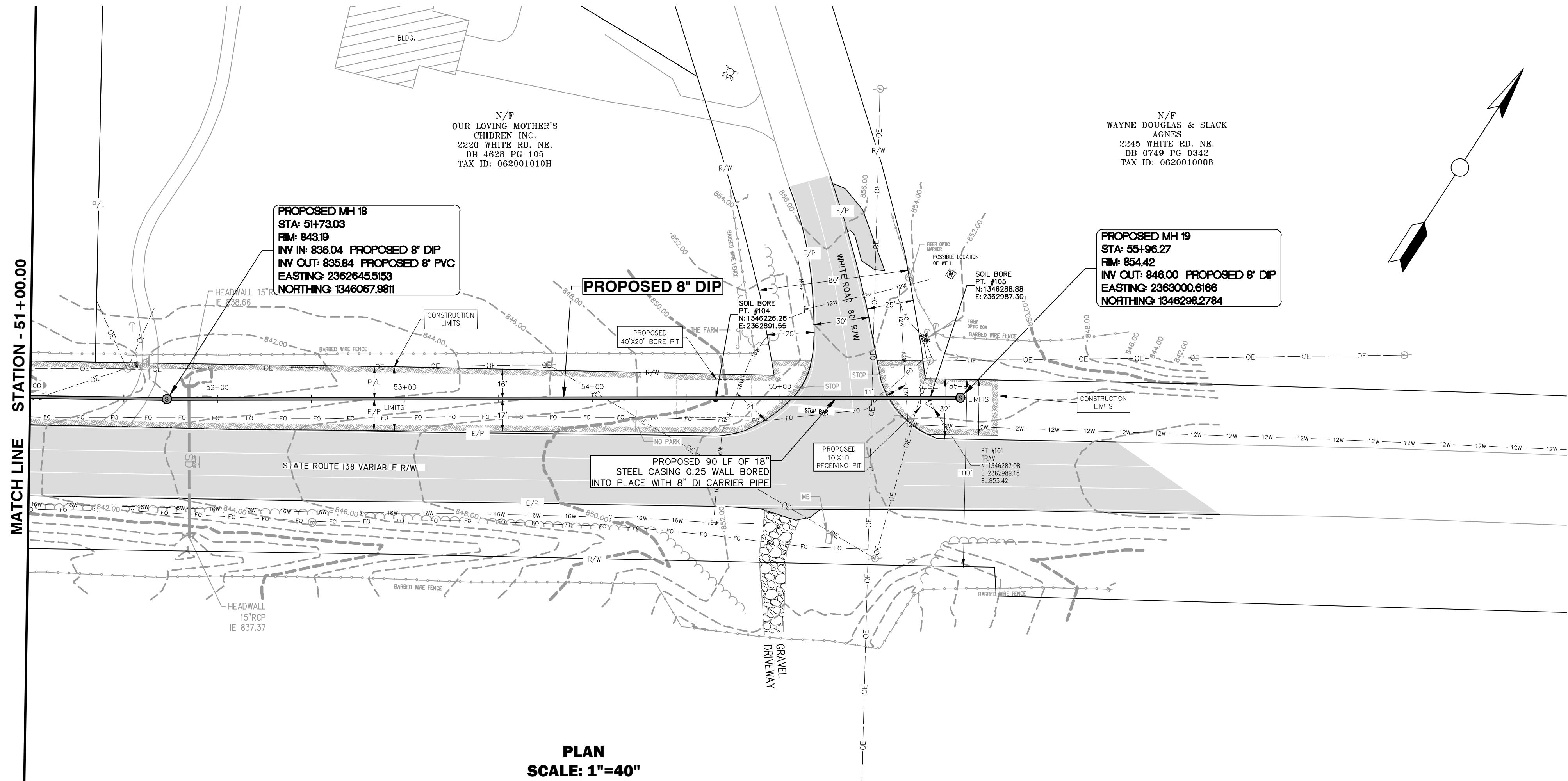
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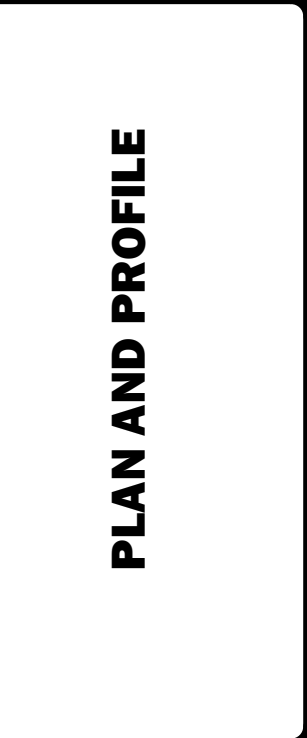
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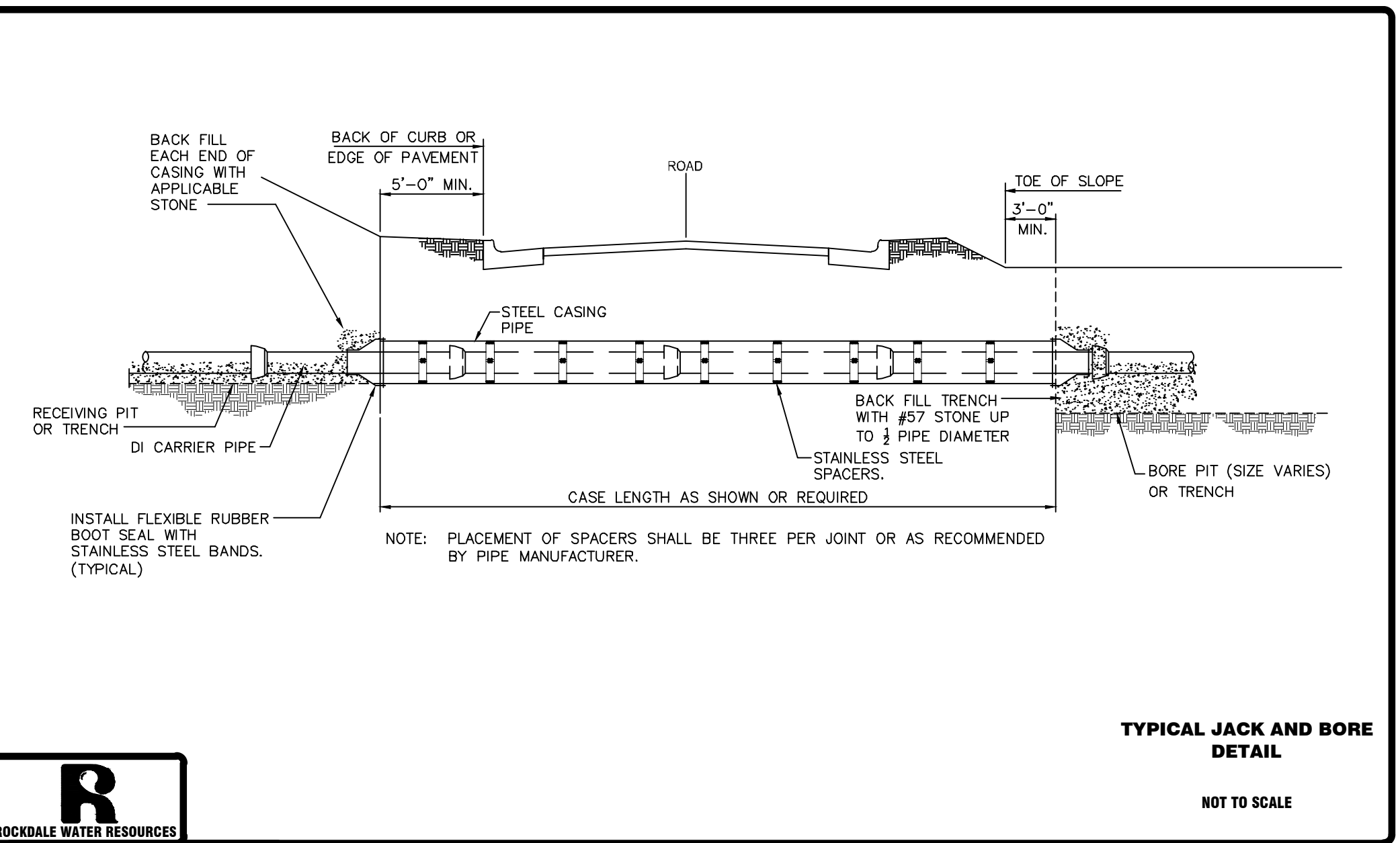
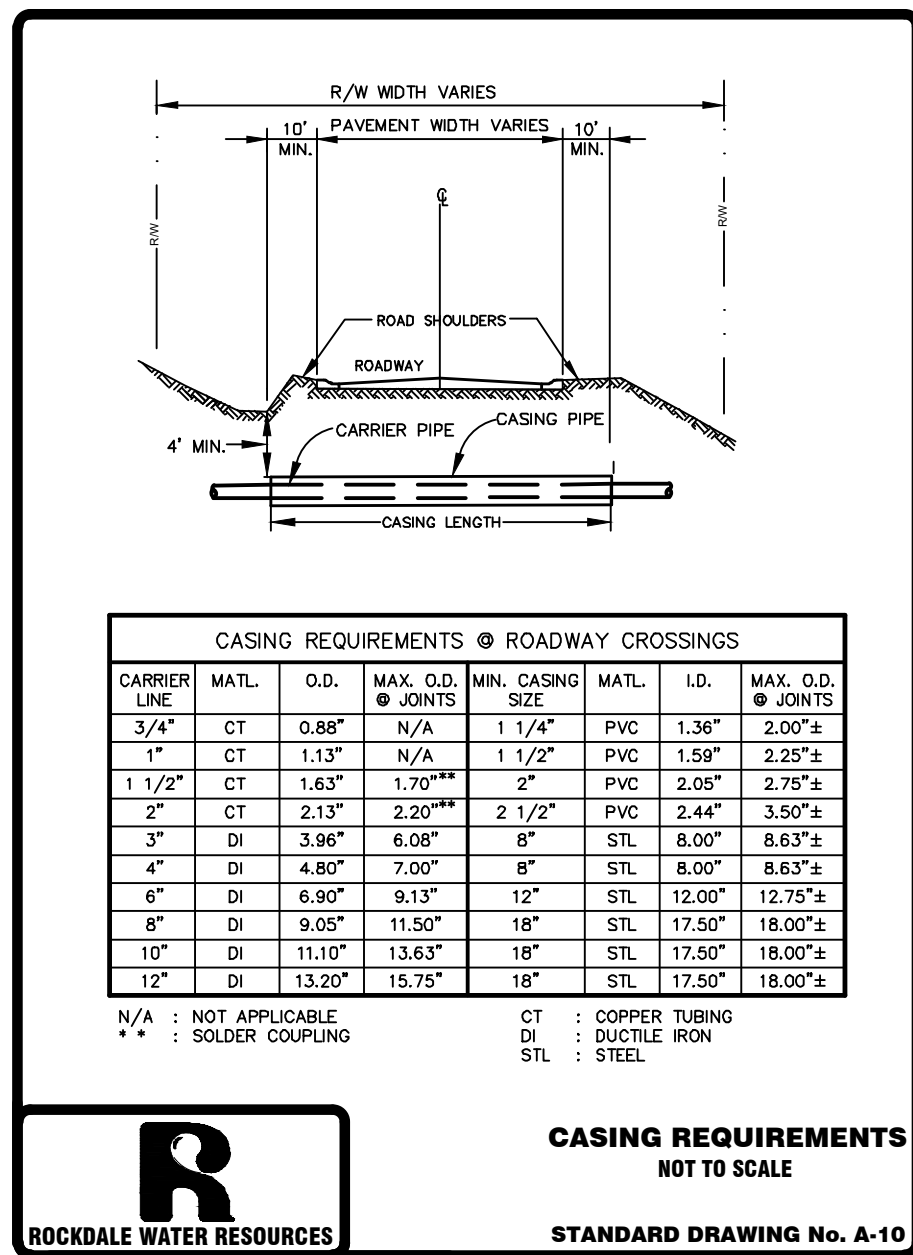
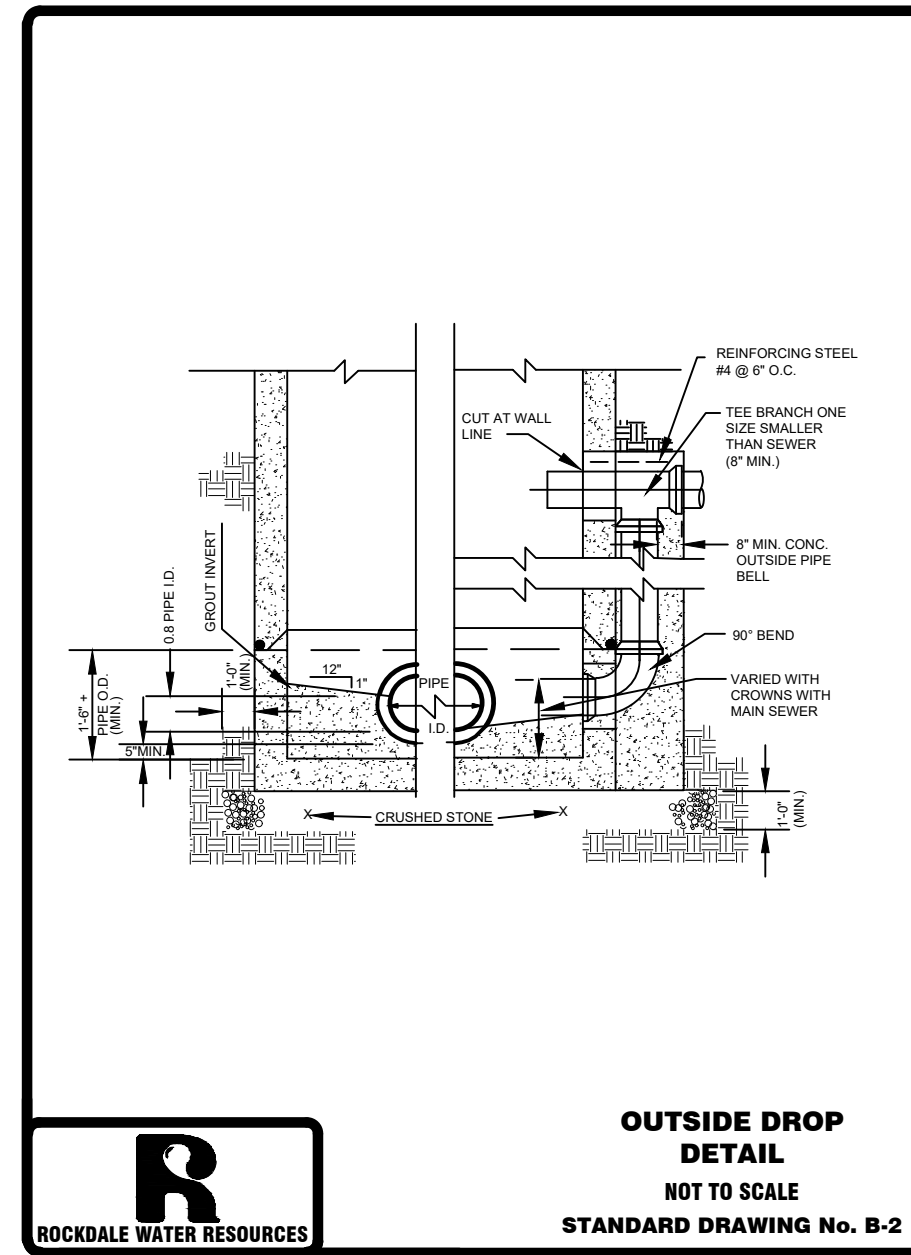
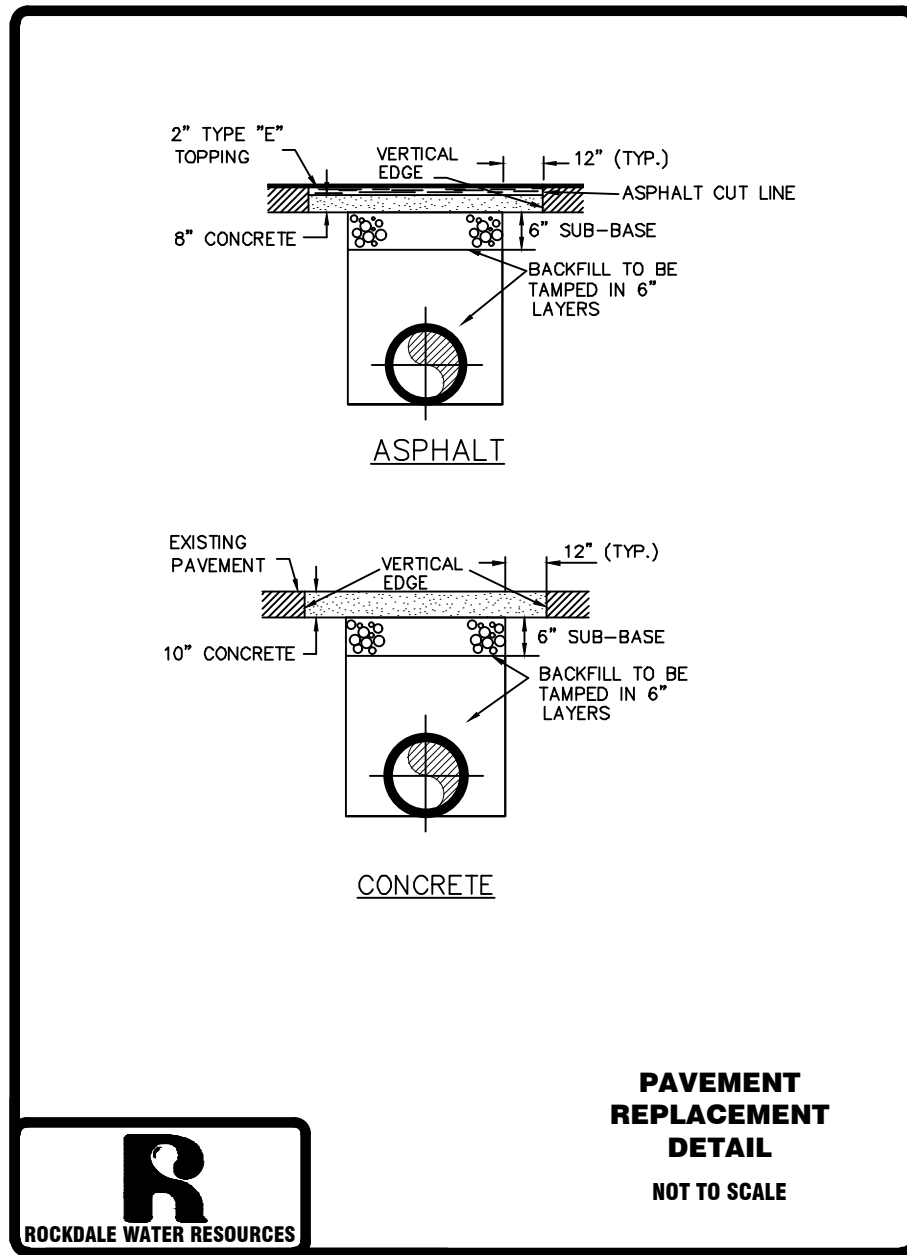
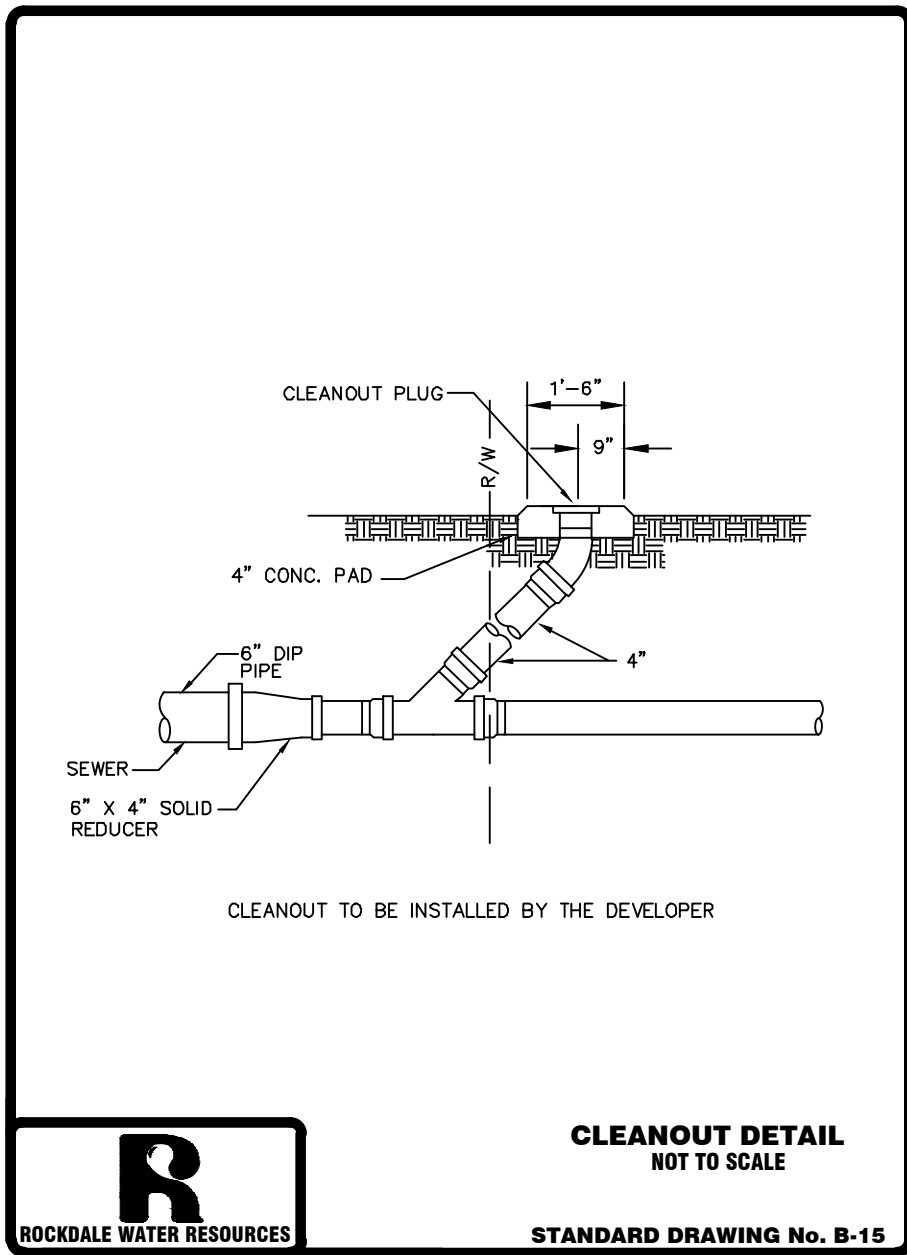
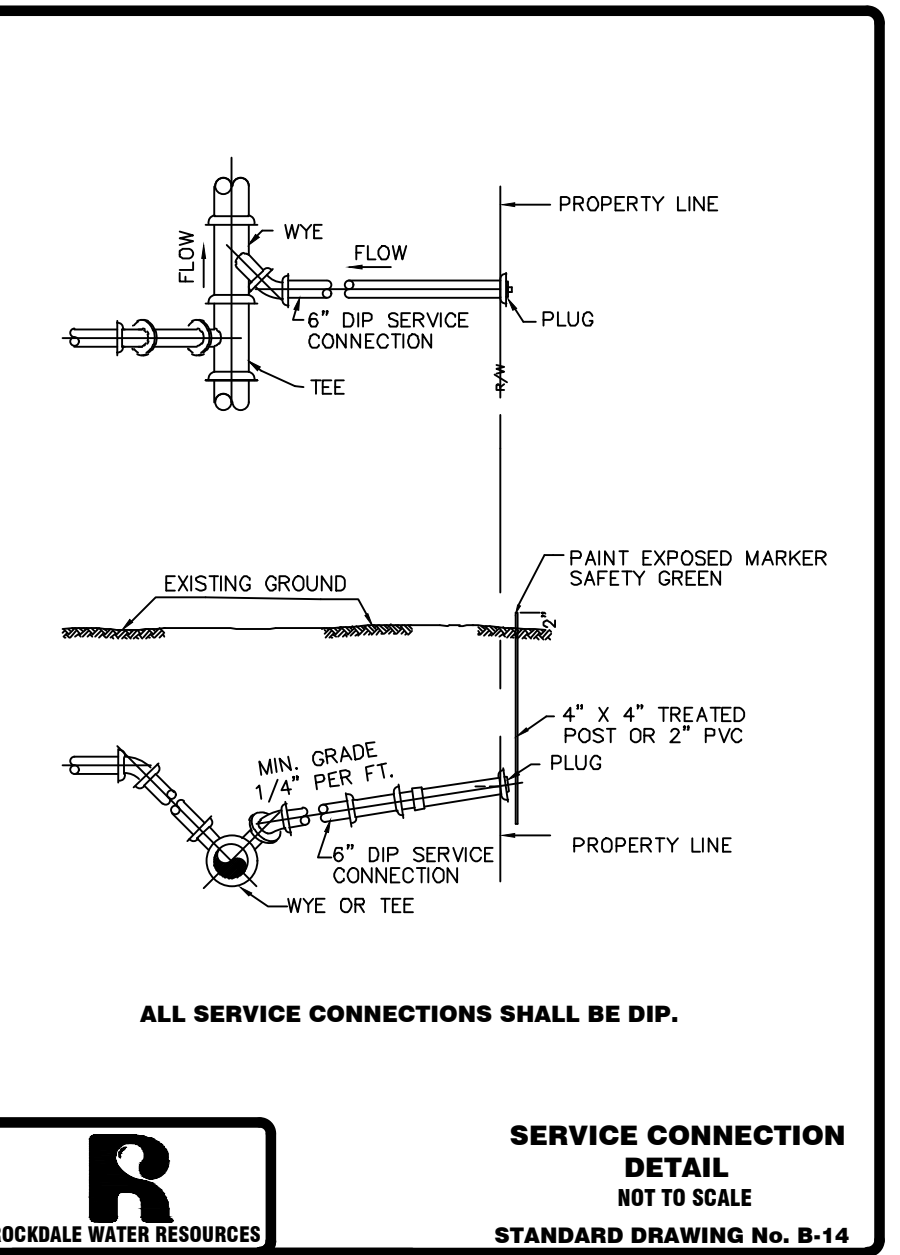
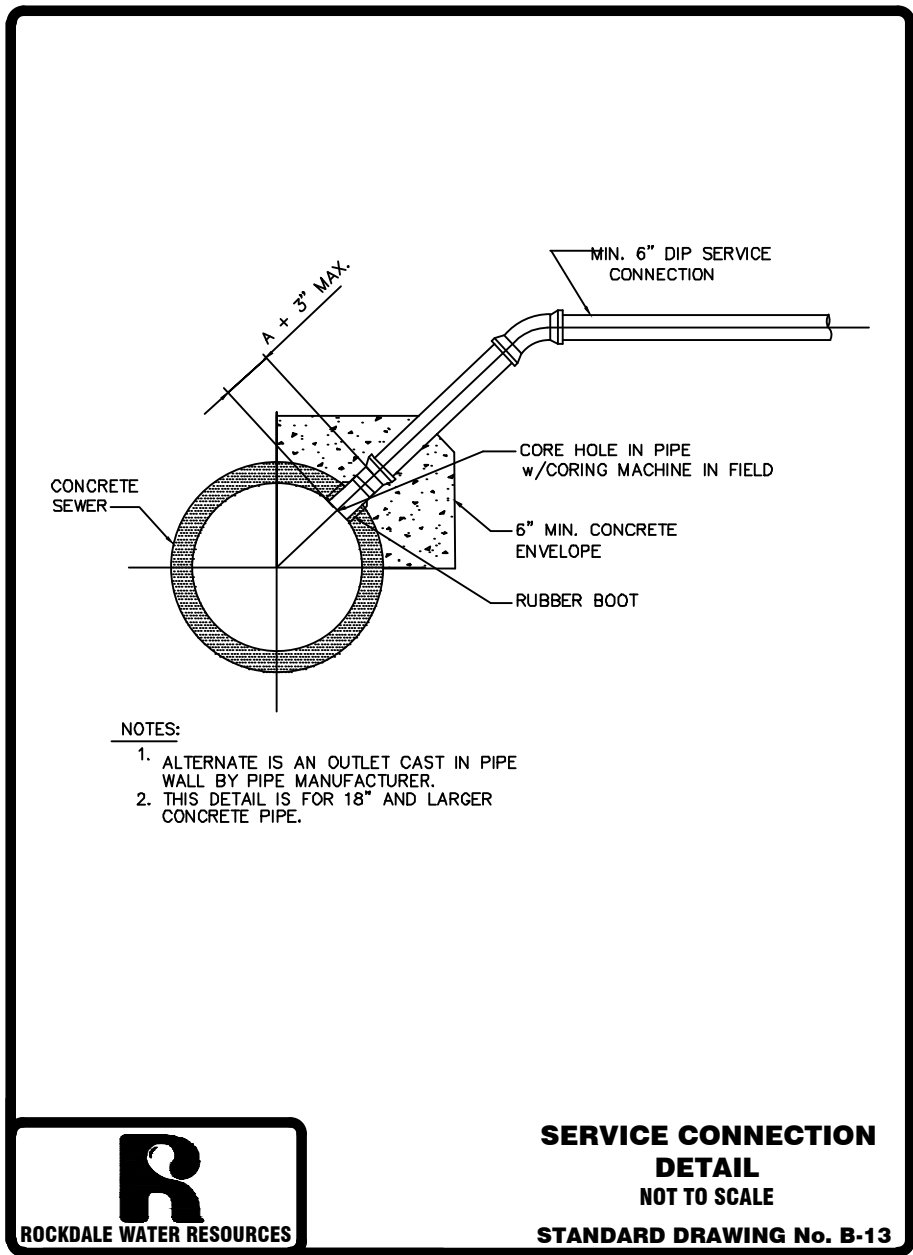
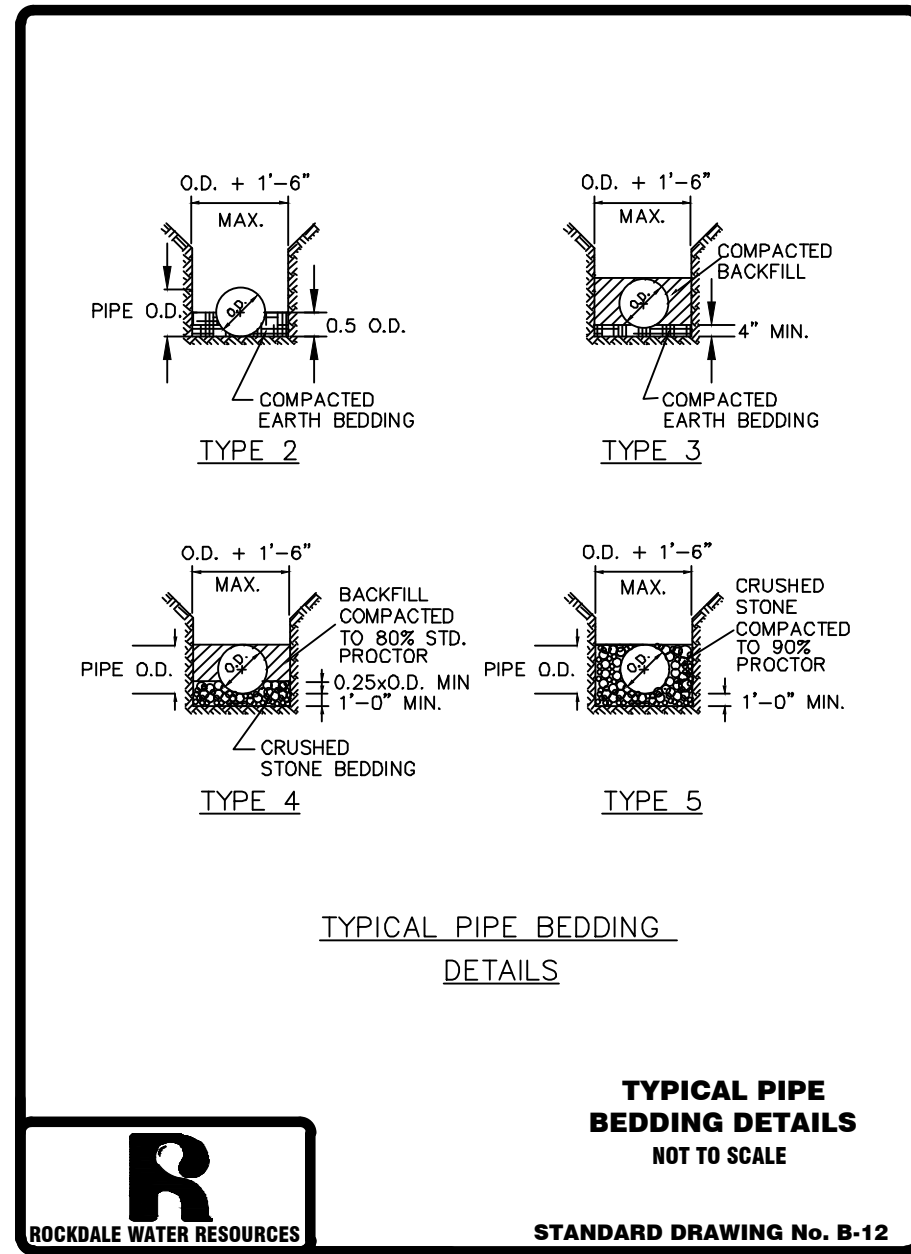
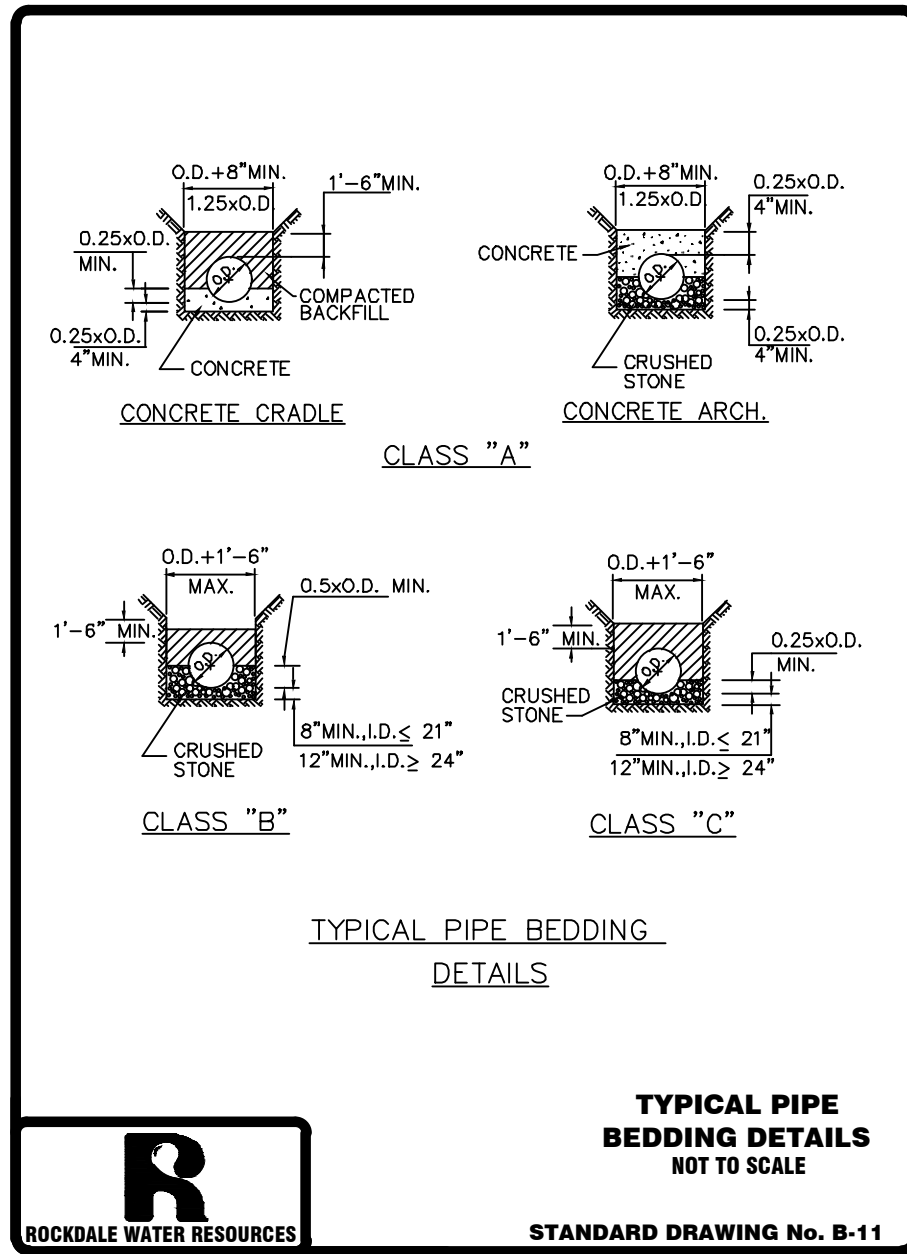
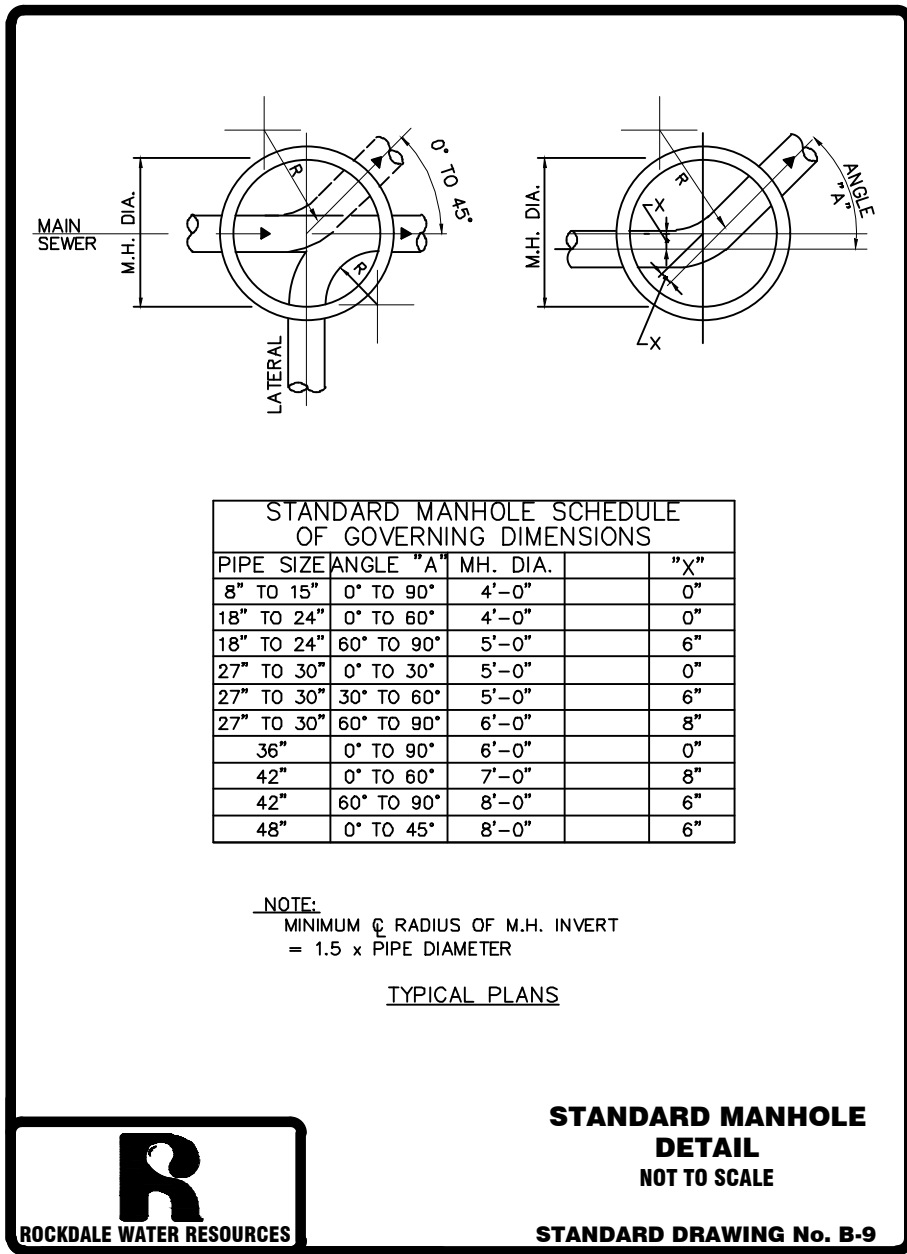
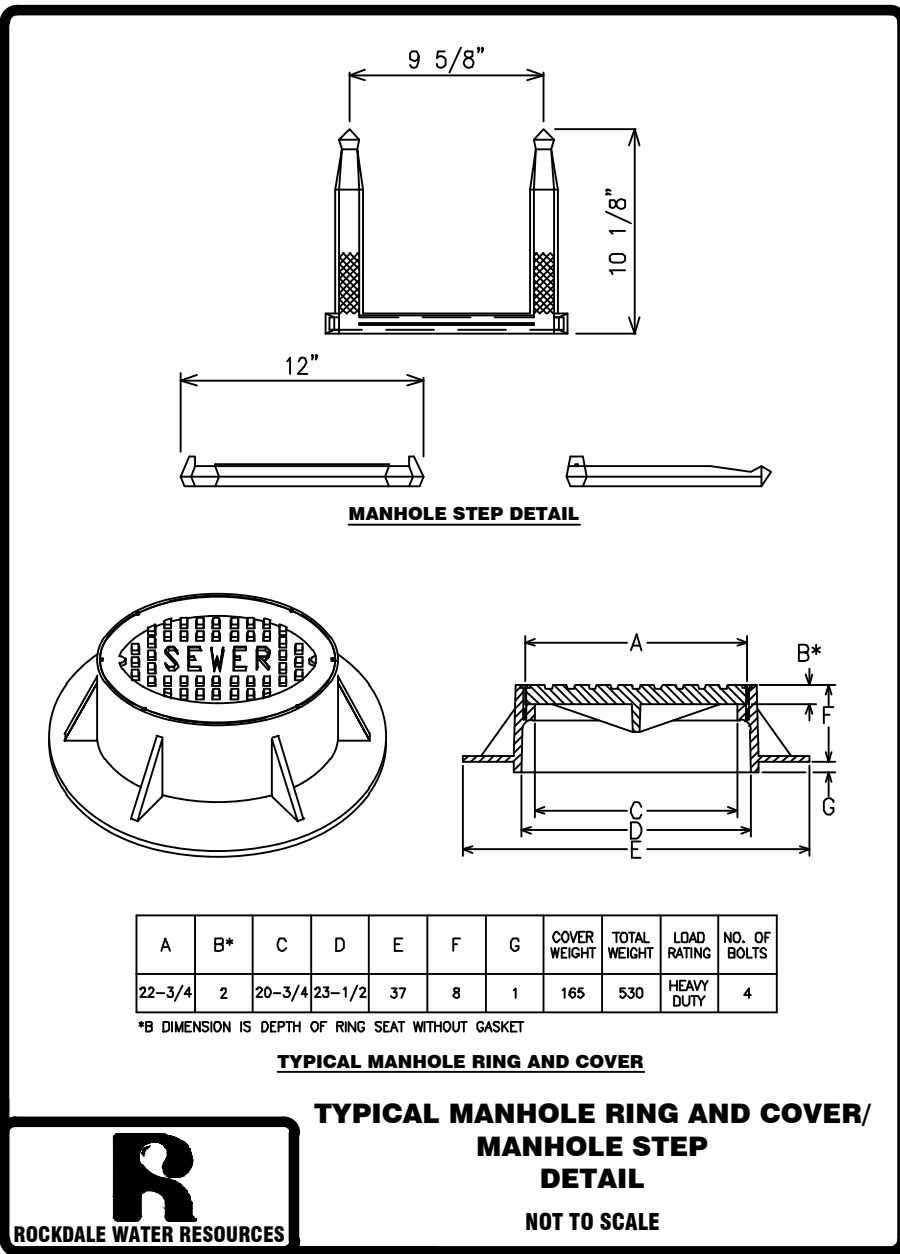
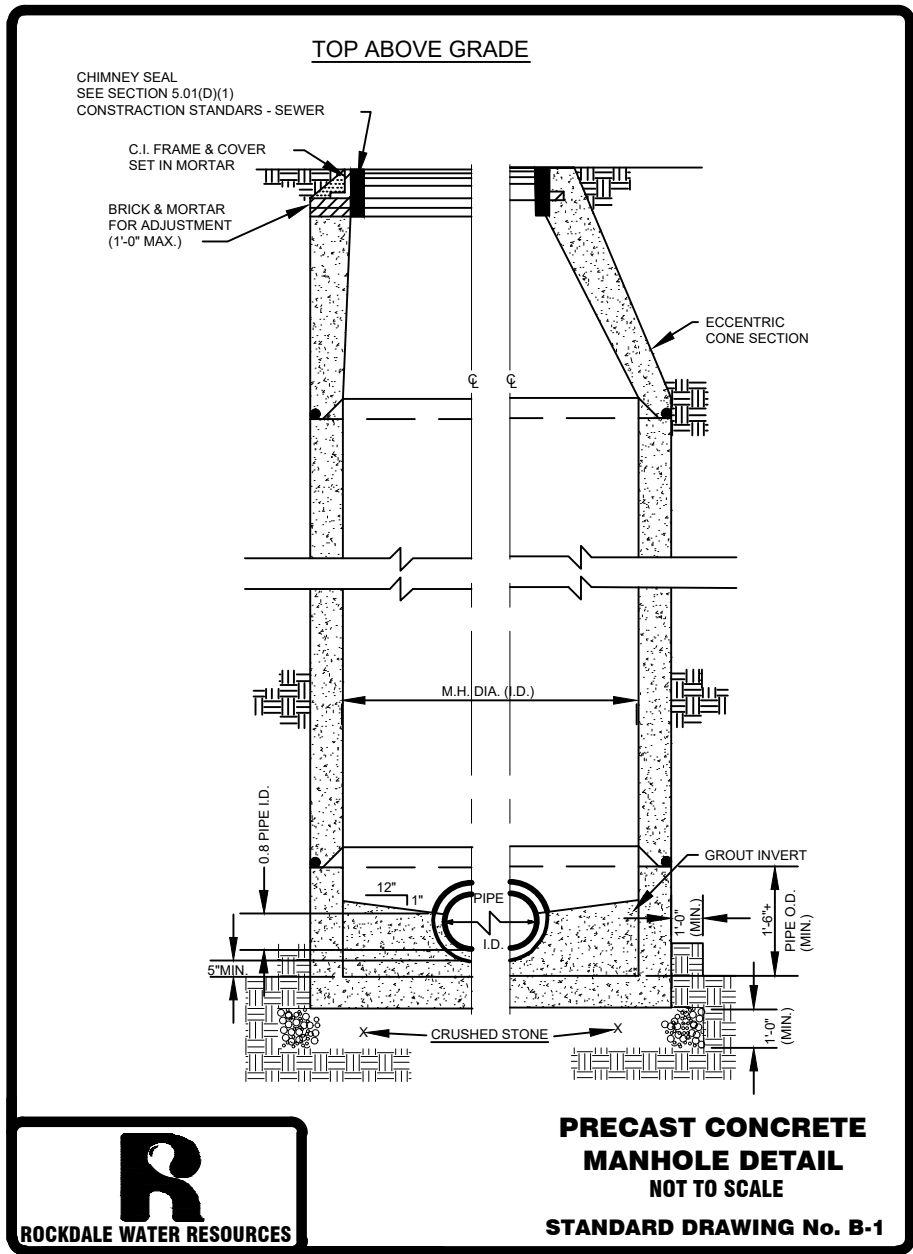


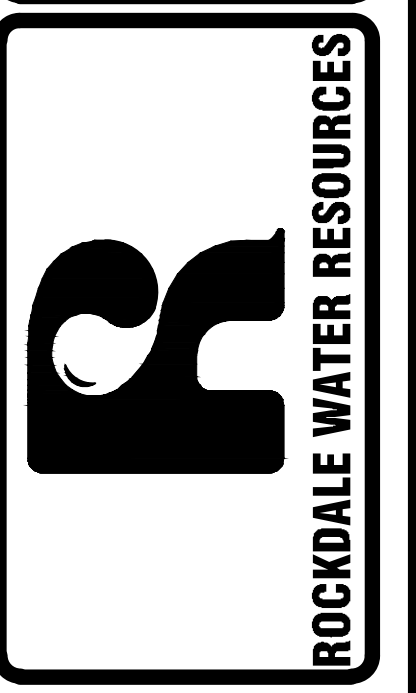
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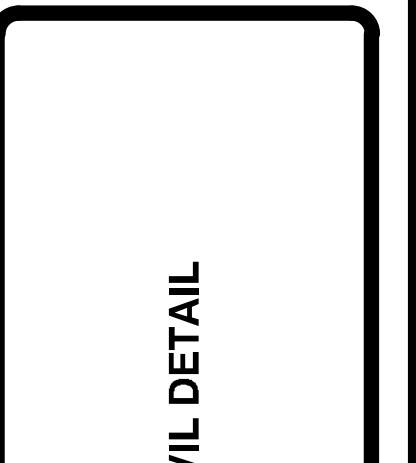
DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SENER.DWT

SHEET 10
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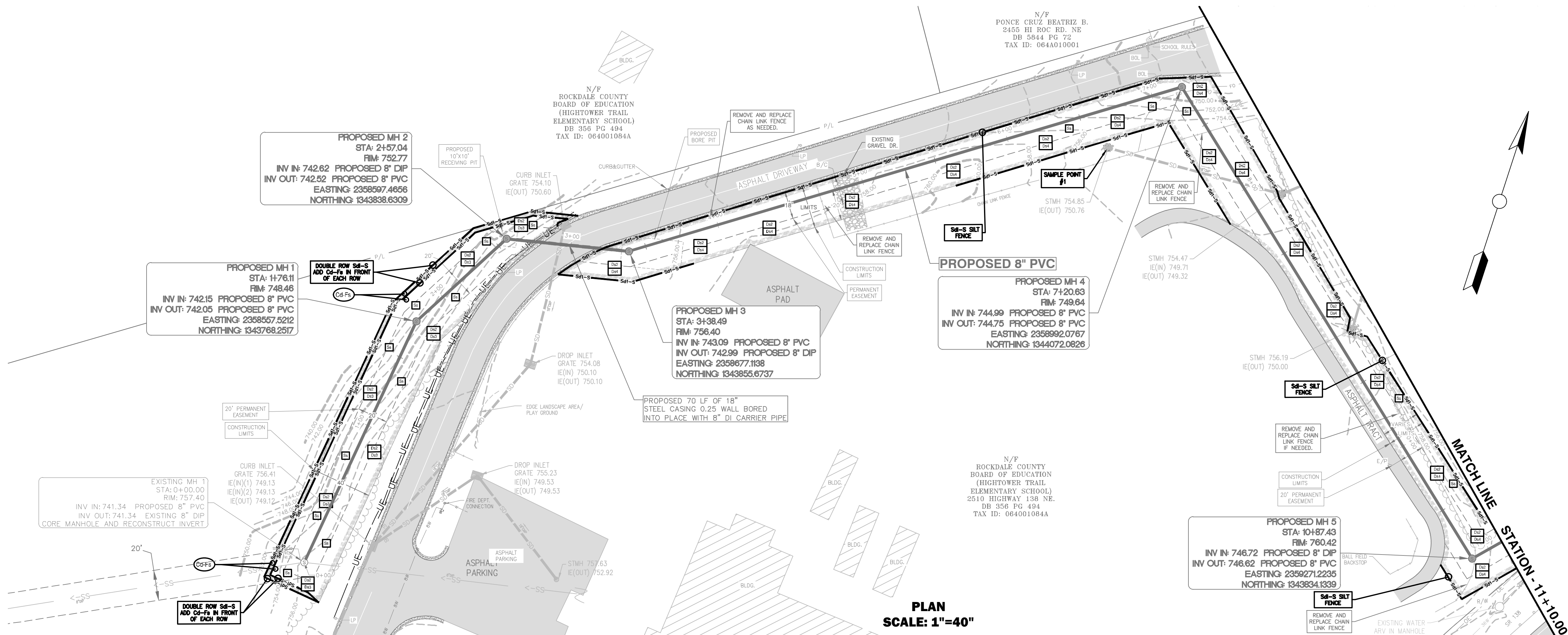


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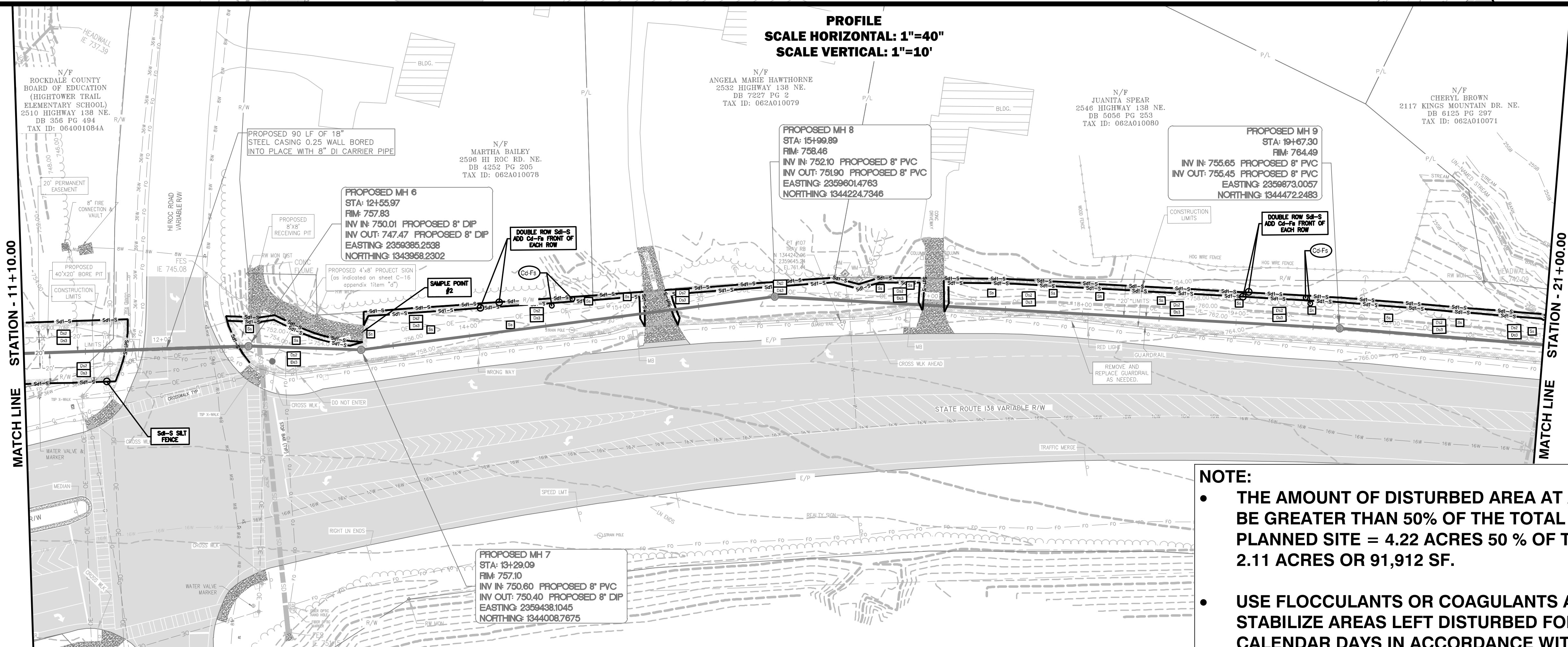


CIVIL DETAIL	
DESIGNED BY:	DAVID CERVONE
DRAWN BY:	WALT BOBO
CHECKED BY:	DAVID CERVONE
DATE:	02/22/2022
FILE NAME:	2245 GA HWY 138 SEWER EXT
SHEET	DRAWING No.

11C-07



PLAN
SCALE: 1"=40"



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

NOTE:

- THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME SHALL NOT BE GREATER THAN 50% OF THE TOTAL PLANNED SITE. TOTAL PLANNED SITE = 4.22 ACRES 50 % OF TOTAL PLANNED SITE = 2.11 ACRES OR 91,912 SF.
- USE FLOCCULANTS OR COAGULANTS AN/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN(7) CALENDAR DAYS IN ACCORDANCE WITH PART III. D.1. OF THE CURRENT NPDES PERMITS.



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EROSION CONTROL PLAN
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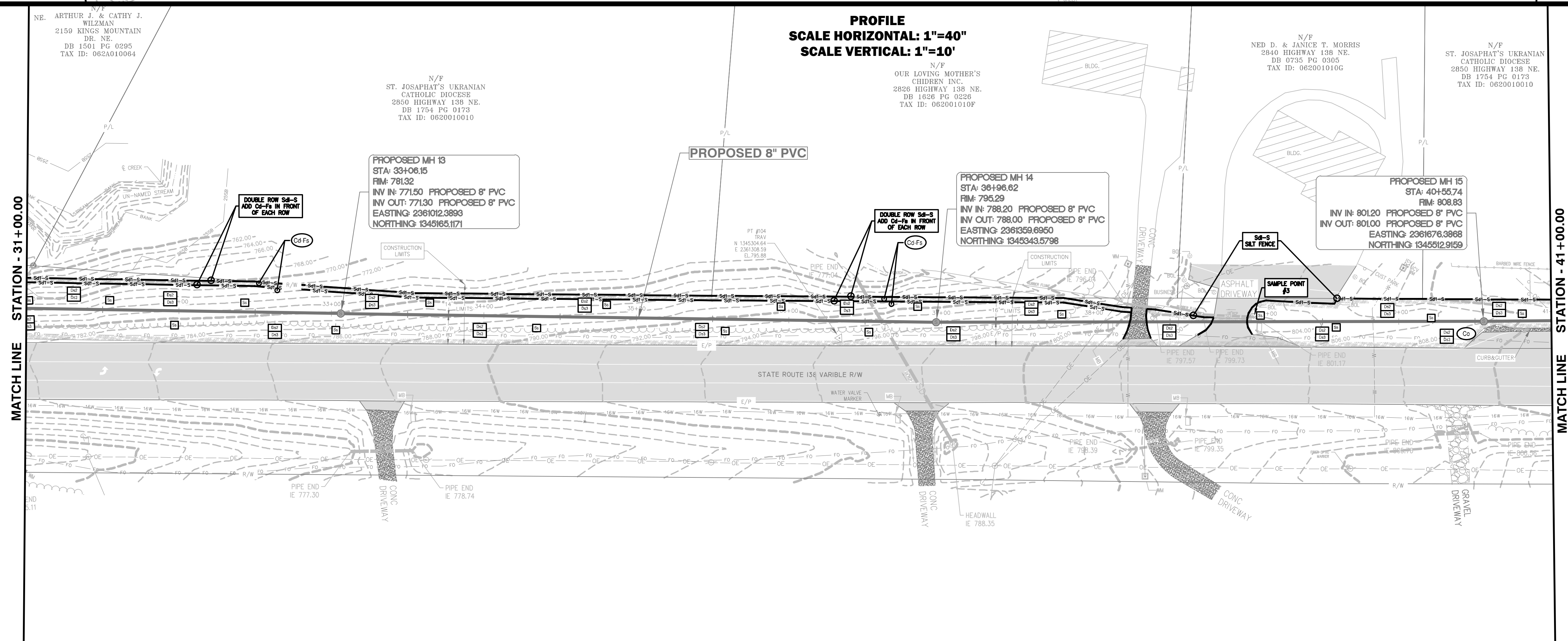
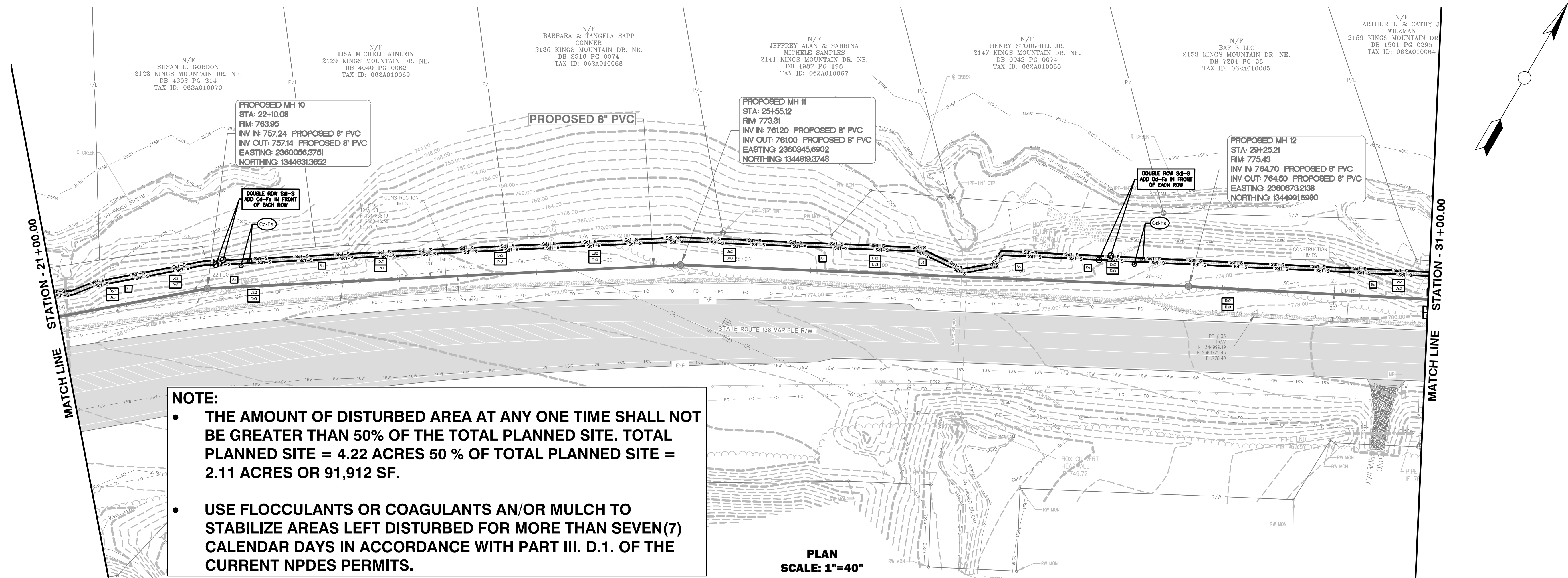
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DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET 12
DRAWING No. C-08



ROCKDALE WATER RESOURCES





GSWCC Georgia Soil and Water Conservation Commission
David J Cervone
Level II Certified Design Professional
CERTIFICATION NUMBER: 0600074206
ISSUED: 02/01/2022 EXPIRES: 02/01/2028

ROCKDALE WATER RESOURCES

GEORGIA 811
UNIVERSITY OF GEORGIA
Call before you dig

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DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET 13
DRAWING NO. C-09

Section 1: General County Required Notes

- A. ES&PC plan prepared by:
David Cervone (RWR)
GSWCC Level II Certified Design Professional
Certification Number: 0000074205
- B. ES&PC 24-Hour Contact:
David Cervone (RWR)
GSWCC Level II Certified Design Professional
Certification Number: 0000074205
Office (770) 278-7486
Mobile (678) 476-4728
- C. The person ultimately responsible for the installation and maintenance of erosion and sedimentation control practices on this site and who is to be contacted in the event of a Stop Work Order is:
David Cervone (RWR)
GSWCC Level II Certified Design Professional
Certification Number: 0000074205
Office (770) 278-7486
Mobile (678) 476-4728
- D. Plans are reviewed in general. Specific details and calculations may not be checked. The engineer's stamp and signature guarantees the accuracy of the calculations and design. Plan approval does not obligate the county to accept the work, nor does it relieve the developer and/or engineer from compliance with any other county, state or federal ordinances and laws. Plan approval does not relieve the developer from the responsibility for damages to adjacent or downstream property resulting from this development.
- E. Any revisions to the plans after the initial submittal, other than the response to the plan review comments, will be indicated as revisions and submitted with a written explanation of the revisions and the reasons therefor.
- F. Any variations from the permitted plans, changes in design resulting from field conditions, or substitution of construction materials are to be reviewed and approved by the responsible design engineer and Rockdale County Department of Planning & Development.
- G. The owner/Developer and Engineer have reviewed the appropriate local, state and federal regulations regarding development activities adjacent to flood plains, state waters and wetlands and have determined that this development plan satisfies all the applicable standards.
- H. There is established a 25 foot buffer along the banks of all state waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action. No land disturbing activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land disturbing activities on the construction site are completed. Once the final stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation as long as a protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; provided, however, that any person constructing a single-family residence, when such residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time as long as protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed.
- Stream bank restoration and stabilization are required in all disturbed state waters buffers. The stream bank canopy is to be restored within the state waters buffers. Geomat and rip rap are to be placed as necessary to prevent erosion within the stream banks.
- Georgia House Bill 1426

Section 2: NPDES Notes

Part 1.0 Permit Conditions

General

- A. A National Pollutant Discharge Elimination System (NPDES) Monitoring Program has been prepared for the project as a requirement of the State of Georgia, Department of Natural Resources, Environmental Protection Division (Georgia EPD) due to more than one (1) acre of land will be disturbed during construction. Because of the area of soil disturbance, erosion and sedimentation control practices and monitoring as set forth by Georgia EPD's General Permit No. GAR 100002 are required for this project and shall be implemented as described herein and in accordance with the Construction Plan and the "Manual for Erosion and Sediment Control in Georgia" (Manual), latest edition, published by the State Soil and Water Conservation Commission.
- B. The following NPDES information has been prepared in general accordance to Georgia EPD's General Permit No. GAR 100002, "Authorization to Discharge Under the National Pollutant Discharge Elimination System, Storm Water Discharges Associated with Construction Activity For Infrastructure Construction Projects", effective 1 July 2016.

Notice of Intent

The owner (RWR) is the Primary Permittee and shall obtain coverage under Georgia EPD's General Permit No. GAR 100002. No later than 14 days prior to commencing construction, the RWR shall submit a Notice of Intent to the Georgia EPD and to Rockdale County Department of Planning & Development who are the issuing authorities of the Land Disturbance Activity Permit.

Target NTU and Permit Violation

- A. A maximum increase of 75 nephelometric turbidity units (NTUs) in storm water affected by construction is the Target NTU for the project.
- B. Proper design, installation and maintenance of erosion and sedimentation control practices shall constitute a complete defense to any allegation of noncompliance. A copy of this document and all reporting shall remain at the site of construction or at an easily accessible location for review by the Georgia EPD.
- C. A discharge of storm water runoff from disturbed areas where erosion and sedimentation control practices have not been properly designed, installed or maintained shall constitute a violation of the referenced permit for each day on which such discharge results in the turbidity of construction related storm water being increased more than 75 NTUs. Maintenance of erosion and sedimentation control practices as a result of routine inspections shall not be considered a violation.

Notice of Termination

The RWR shall terminate coverage under Georgia EPD's General Permit No. GAR 100002 when soil disturbance activities at the site cease, storm water sampling criteria are met, all temporary BMPs have been removed and final stabilization is complete. A Notice of Termination shall be submitted by the RWR to the Georgia EPD and to Rockdale County Department of Planning & Development who are the issuing authorities of the Land Disturbance Activity Permit.

Part 2.0 ES&PC Plan Certifications and Statements

- A. "I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices meets and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002.

David J. Cervone

David Cervone, P.E.
Rockdale Water Resources
GSWCC Level II Certified Design Professional
Certification Number: 0000074205
Issued: 02/01/2022 Expires: 02/01/2025

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

David J. Cervone

David Cervone, P.E.
Rockdale Water Resources
GSWCC Level II Certified Design Professional
Certification Number: 0000074205
Issued: 02/01/2022 Expires: 02/01/2025

- C. "The design professional who prepare the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5 within 7 days after installation."

Part 3.0 Site Information

Description and Construction Activity

The project consists of installing 5596 LF of 8 inch PVC sanitary sewer main, which will include 3 Road bores. Starting at Hightower Trail Elementary School crossing the entrance drive with first bore then running north east along drive to the athletics field turning south east running along the athletics field to right of way of highway 138. Head north east along Highway 138 crossing under Hi Roc Road (second bore) continuing north east along the west side of highway 138 to White Rd. Bore under White Road(third bore) ending on the north side of White Road. Total project acreage and disturbed acreage is 4.22 in Rockdale County currently stabilized with grass.

Storm Water Discharge

- A. Based on a reconnaissance of the project route, performed on 29 September 2022 surface waters were observed along the proposed route.
- B. Peak Runoff Discharges are not estimated for the project because the pipe route is not being developed with impervious surface. Final grades and vegetation will match existing.

Non-Storm Water Discharge

Non-storm water discharges associated with construction activity at the site shall include the use of potable water to flush clean the interior of the laid pipe. Silt fence and hay bales shall be utilized to prevent soil erosion.

Part 4.0 Storm Water Pollution Controls

Erosion and Sedimentation

- A. Initial Perimeter Control BMPs will consist of installing silt fence prior to and concurrent with construction activities.
- B. Intermediate Grading and Drainage BMPs.
- Where pavement is removed and excavation completed, No. 57 stone will be installed level with adjacent grades.
 - Silt fence, hay bales and blankets shall be utilized as intermediate BMPs where applicable.
- C. Final BMPs.
- All disturbed areas shall be permanently stabilized with paving and vegetation where applicable.

Storm Water Management

The majority of the site area will be stabilized as existing using temporary and permanent grassing in accordance with the Construction Drawings. Temporary silt fence, installed during construction, shall be left in-place until grassed areas of soil have gone through final stabilization. Final stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or as required by the Construction Drawings.

Other Controls

- A. Off-site vehicle tracking of dirt, soils and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical.
- B. Petroleum containers shall be double-walled and placed in locations that produce the least opportunity for accidents. No petroleum products will be intentionally drained onto the ground surface. Free-phase petroleum products accidentally spilled onto the ground surface will be immediately removed using an absorbent material. Absorbent material will subsequently be placed in a sealable container for off site disposal

Part 5.0 Inspections and Maintenance

General

The Contractor shall perform all inspections as indicated in the following schedule using certified Personnel. Certified Personnel means a person who has successfully completed an erosion and sediment control short course eligible for continuing education units, or an equivalent course approved by Georgia EPD and the State Soil and Water Conservation Commission.

Inspection Schedule

- A. Each day when any construction activity occurs on the site, the following items shall be inspected:
- Areas where petroleum products are stored, used or handled to determine whether spills and leaks have occurred from vehicles and equipment; and
 - Construction site entrance/exit to determine whether off-site tracking of soil is occurring.
- B. At least once every fourteen (14) calendar days and within 24 hours of 0.5 inches or greater rainfall event, the following items shall be inspected:
- Disturbed areas that have not undergone final stabilization to determine whether erosion is occurring;
 - Areas used for storage of materials that are exposed to precipitation that have not undergone final stabilization to determine whether erosion is occurring; and
 - Erosion control and sedimentation measures identified in Contract Documents to ensure that they are functioning properly.

- C. Once per month, the following items shall be inspected:

- The areas that have undergone final stabilization to determine the evidence or the potential for erosion and sedimentation;
- Erosion control and sedimentation measures identified in Contract Documents to ensure that they are functioning properly; and
- Discharge/outfall locations to determine whether erosion and sedimentation control measures are being effective.

Rainfall Data

At the time soil disturbance begins (after clearing and grubbing is completed for a particular drainage area), the Contractor shall measure and record rainfall once every 24-hour period until a Notice of Termination is submitted to the Georgia EPD.

Records

- A. The Contractor shall record results of each inspection on a daily inspection log. Inspection logs shall be maintained on-site until a Notice of Termination has been submitted to the Georgia EPD.
- B. Should results of any inspection indicate the need to amend the Erosion Control and Sedimentation Plan, then said actions shall be performed as soon as practical but no later than seven (7) days of that particular inspection.

- C. All records associated with the NPDES Permit shall be retained by the Primary Permittee for a period of (3) years from the date of the Notice of Termination.

Maintenance

The Contractor shall maintain erosion and sedimentation controls as detailed in the Construction Notes.

Part 6.0 Storm Water Sampling

Sampling Certification

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

David J. Cervone

David Cervone, P.E.
Rockdale Water Resources

Sampling Locations

- A. A portion of the United States Geological Survey, Milstead, Georgia Quadrangle Topographic Map, photo dated 2020 showing the project site area and surrounding area is shown on Drawing C-15 of the Construction Plan. The nearest surface water body is Un-named stream flows to Yellow River and is located approximately 50 LF. at its closest point to the project route. Sampling locations are depicted on the Construction Drawings.
- B. Storm water samples shall be collected up stream and down stream of the project route and are designated as Sample Point #1,2,3 and 4 as shown on Construction Drawing C-08, C-09 and C-10. The locations are assumed to represent all discharge points along the project route. Said representation is based on similar soil types depicted on Drawing C-12 and topography shown throughout the stationing. Additionally, soil erosion and sedimentation control measures located and depicted on the Construction Drawings are consistent in rationale throughout the stationing. Construction of this project shall not alter existing grades or make significant changes in existing vegetative cover along the route. Because post construction runoff characteristics should not be altered, analysis of the project route using Appendix A of the "Manual for Erosion and Sedimentation Control in Georgia, 2016 Edition, is not warranted.

Sample Type

- A. Storm water grab samples shall be collected by manual or automatic means. Two (2) samples shall be collected from each sample point. Prior to collecting samples, each sample container shall be labeled using a permanent marker and clear taped as follows:
- Project Title:
Sample Point:
Date:
Time:
- B. Samples shall be collected, as practical, from the center and in the middle depth of the stream in clean glass or plastic jars (150 ml or larger) and sealed with appropriate lids. Floating debris shall be kept from entering the sample containers

Sample Frequency

- A. Storm water samples shall be collected within 45 minutes of:
- The accumulation of the minimum amount of rainfall for the qualifying event, if the storm water discharge from a monitored outfall has begun at or prior to the accumulation, or
 - The beginning of any storm water discharge from a monitored outfall, if the discharge begins after the accumulation of the minimum amount of rainfall for the qualifying event.
- B. Storm water samples shall be collected for the following rainfall events (Monday thru Friday, 8:00 AM to 5:00 PM and Saturday, 8:00 AM to 5:00 PM when construction is being conducted by the Primary permittee):
- The first rain event that reaches or exceeds 0.5 inch that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the representative sampling location.
 - In addition to (1) above, the first rain event that reaches or exceeds 0.5 inch that occurs either 90 days after (1) above or after all mass grading or excavation/backfilling operations have been completed for each phase.
- C. At the time of sampling performed pursuant to B.1 and B.2 above, if erosion control measures are found to be properly designed, installed and maintained, no further turbidity sampling is required for that phase of work.
- D. If erosion control measures in a phase of work are found not to be properly designed, installed and maintained, then turbidity samples shall be collected for that phase of work for the next 0.5 inch rain event and subsequent rain events until erosion control measures are found to be properly designed, installed and maintained.

Sample Analysis and Records

- A. Each storm water sample shall be analyzed for Nephelometric Turbidity Units (NTUs) using methodologies and procedures established by 40 CFR Part 136; the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" or procedures described in the publication "Standard Methods, Edition 18".
- B. Should samples be transported from the job site for analysis, a chain-of-custody record shall be prepared to accompany the samples to the laboratory. Results of each analyses shall be recorded. The Contractor shall provide the RWR with copies of all documentation pertaining to storm water sampling on a monthly basis.
- Reporting to the Georgia EPD
- The RWR shall report storm water monitoring analytical results to the Georgia EPD for only those months when storm water samples are collected. The summary of analytical results shall be submitted to Georgia EPD by the 15th day of each month following a qualifying reporting period via return receipt certified mail. Monthly monitoring reports shall be submitted to the Georgia EPD at the address listed below.

Mountain District - Atlanta Satellite
Georgia Environmental Protection Division
4244 International Parkway, Suite 114
Atlanta, GA 30354-3906

The RWR shall certify each monthly monitoring report as follows:

"I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Section 3: Erosion and Sedimentation Control Notes

Part 1.0 General

- A. A copy of the approved land disturbance plan and permit shall be present on the site whenever work is in progress.
- B. Erosion and Sediment control shall be the Contractor's responsibility for compliance, installation, maintenance, and removal as required by the State of Georgia Manual for Erosion and Sediment Control in Georgia 2016 Edition as published by the Georgia Soil and Water Conservation Commission. The Contractor shall become familiar with these specifications prior to any construction activities. The installation of the required erosion and sediment control measures shall be installed as a first step in construction.
- C. Any amendments/revisions to the ES&PC plan which have significant effect on BMPs with a hydraulic component must be certified by the design professional.
- D. Failure to install, operate and/or maintain all erosion control measures shall be a justification to stop construction on the job site until such measures are corrected in a accordance with the approved plans or as directed by the Engineer.

Part 2.0 Site Preparation

- A. Prior to commencing land disturbance activity, the limits of land disturbance shall be clearly and accurately demarcated with stakes ribbons, or other appropriate means. The location and extent of all authorized and disturbance activity shall be demarcated for the duration of the construction activity. No land disturbance shall occur outside the approve limits indicated on the approved plans.
- B. Material staging area shall be encompassed with referenced silt fence.

Part 3.0 During Construction

- A. 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.
- B. Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for the effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.
- C. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.
- D. Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of 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.
- E. 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.
- F. Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 permit.
- G. The location of some erosion control devices may be altered from that shown on plans as approved by the Inspector.
- H. Mud and silt are strictly prohibited from leaving the site and depositing on the public thoroughfare.
- I. Construction exits shall be maintained in a condition which will prevent tracking or flow of mud onto public right of way. This may require periodic dressing with stone, as conditions demand, and repair and/or clean out of any structures used to trap sediment. All materials spilled, dropped, washed, or tracked from vehicle or site onto public roadway or into storm drain shall be removed immediately.
- J. Control dust using water or other methods as required to prevent dust from being a nuisance to the public and concurrent with on site work.
- K. Disturbed soil shall be stabilized with erosion and sediment control measures each day and prior to any rain event as follows: (A) Disturbed soil shall be returned to final grade, (B) Erosion and Sediment Control devices shall be installed, (C) Graded soil shall be treated with lime and fertilizer, (D) Apply temporary and/or permanent vegetation as required.
- L. Straw mulching shall be used with temporary and permanent vegetation applications and shall be free of weed seeds and spread at a rate of 90 pounds per 1,000 square feet. Where matting and blankets symbols are shown along with temporary seeding and permanent vegetation symbol, matting and blankets shall be installed in place of straw mulching.
- M. The Contractor shall install matting and blankets within all drainage ditches unless noted otherwise.
- N. Erosion and sediment control devices shall be inspected by the contractor at the end of each days work and at the end of each and every rain in event. The Contractor shall be responsible for the repair and/or replacement of any failed or inadequately installed sediment control device. The Contractor shall be responsible for all maintenance of erosion and sediment control devices.
- O. The Contractor shall remove accumulated silt when the silt is within 12-inches of the top of the silt fence utilized for erosion control.
- P. All silt and/or sediment removed from the erosion/sediment control devices shall be disposed of onsite in such a manner as to prevent said silt and/or sediments from reentering the control devices and/or exiting the site through the storm drainage systems and/or surface drainage.
- Q. Concrete truck washout location shall be in a temporary truck wash area located at the site entrance. Washout shall be contained within a pit or trench with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the breaking of material into small amounts for trash disposal or removal from site to an appropriate landfill. Washout of the drum at the construction site is prohibited.
- R. Paint and/or other chemicals shall be stored in secured facilities with restricted access to employees only. Cleanup and disposal of this material shall be in accordance with all recognized local and federal requirements. All disposal shall be approved to off-site waste facilities classified to accept that material.

- S. All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site.

- T. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- U. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- V. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- W. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- X. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- Y. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- Z. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

- AA. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

Part 4.0 Site Completion

- A. Final stabilization means that 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the plan (uniformly covered landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.
- B. The Contractor shall remove silt fence in areas that have undergone stabilization as determined by RWR Inspector. Contractor shall dispose said silt fence in accordance with local regulations.
- C. The Contractor shall be responsible for repairing and/or maintaining all job site work areas that are being stabilized or have undergone final stabilization until RWR has issued a letter of final acceptance.



REVISION		DESCRIPTION		DATE	
No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION
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EROSION CONTROL NOTES

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET	DRAWING No.
15	C-11





Legend

- 128 Southern Appalachian Ridges and Valleys
- 129 Sand Mountain
- 130B Southern Blue Ridge
- 133A Southern Coastal Plain
- 136 Southern Piedmont
- 137 Carolina and Georgia Sand Hills
- 153A Atlantic Coast Flatwoods
- 153B Tidewater Area

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	DECOM			A small temporary bridge or dam construction across a water, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, controlling or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION DITCH STABILIZATION			A channel stone pile located at the construction site to provide a place for passing mud from freely eroding areas.
Cr	CONSTRUCTION ROAD STABILIZATION			A traveling construction pit or part of a construction road including access roads, haulage roads, grading roads, etc. for on-site or off-site temporary routes.
Dc	STREAM DRAINAGE CHANNEL			A temporary channel constructed to convey flow across a slope to divert flow while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or levee located above, below or across a slope to divert flow while a temporary or permanent structure.
Dn1	TEMPORARY DRAINAGE STRUCTURE			A temporary structure designed to divert flow or other material designed to safely convey runoff from a slope. This is a temporary and permanent structure.
Dn2	PERMANENT DRAINAGE STRUCTURE			A paved stone pile, sectioned culvert or similar material designed to safely convey runoff down a slope.
Fr	FILTER RIG			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock fill baskets which are hand-placed into position forming stable abutments.
Gr	GRADE STRUCTURE			Permanent structures installed to protect channels or retaining structures where the stone would be sufficient for the coming runoff to form gullies.
Lv	LEVEL SPEAKER			A structure to control concentrated flow of debris or sediment where the structure should be constructed on an undisturbed soil.
Rd	ROCK FILTER STRUCTURE			A permanent or temporary stone filter dam installed across small streams or stormwater.
Re	RETAINING WALL			An wall installed to stabilize soil and fill slopes on a hillside or retaining structure where the stone would be sufficient for the coming runoff to form gullies.
Rt	RETRO FITTING			A device or structure placed in front of a permanent structure designed to protect the structure to serve as a temporary sediment trap.
Sd1	SEDIMENT BARRING			A barrier to prevent sediment from leaving the construction site. It may be boulders, piles of stone or logs, straw, logs, etc. or other material.
Sd2	NET SEDIMENT TRAP			Net trapping system created by excavating around a structure to catch sediment. The sediment can be left and stabilized on the structure.
Sd3	TEMPORARY SEDIMENT TRAP			A basin formed by excavation or a dam across a stream. The sediment material is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that discharges a sediment to a permanent structure. The principle feature is a dam across the stream.
Sk	SKID STEER SHOULDER			A burlap device that "recesses" drains from the side of the structure to prevent debris from being washed into a concrete road or flow.
St	STORM WATER DIVERSION			Using existing structures to divert a diversion perpendicular to the direction of the flow to prevent debris from being washed into a concrete road or flow.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sv	TEMPORARY STRUCTURAL CULVERT			A temporary bridge or culvert-like structure that is designed to be removed from damage by causing construction.
St	STORMWATER DRAINAGE			A paved or short section of pipe, channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE EROSION			A rough soil surface with horizontal depressions on a contour or dunes left to prevent erosion by grading.
Tc	TURBIDITY CURTAIN			A floating toed barrier installed within the water. It may also be referred to as a turbidity curtain or a turbidity barrier.
Td	TOPSOILING			The practice of aligning soil on the water table, storing it, then spreading it over the disturbed ground to complete the construction activities.
Ti	FREE PROTECTION			To protect desirable trees from injury during construction activity.
Wn	WATERWAY			Placed or negative water outlet for erosion, torrents, storms, dunes or similar structures.

VEGETATION PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	REFUGER ZONE			Strip of undisturbed original vegetation, trees, shrubs, etc. that is left in place for the reestablishment of vegetation surrounding the area of disturbance or barrier structure.
Cs	CUTSLOPE			Grading vegetation and slope that are directly affected by construction or are artificially constructed, or re-graded.
Dn1	DEFINITION OF DISTURBED AREA			Establishing temporary protection for disturbed areas where seedlings may not have time to mature and grow before erosion related cover.
Dn2	DEFINITION OF DISTURBED AREA (ON SITE)			Establishing a temporary vegetation cover on soil growing seedlings in disturbed areas.
Dn3	DEFINITION OF DISTURBED AREA (ON SITE)			Establishing a permanent vegetation cover on soil to prevent erosion, or to stabilize or improve the soil.
Dn4	DEFINITION OF DISTURBED AREA (ON SITE)			A permanent vegetation cover using seeds on dry vegetation or critically eroded areas.
Du	DUST CONTROL			Controlling surface and air movement of dust from construction sites, roadways and similar sites.
Fl-Cd	FLUORESCENT COLOR			Substance formulated to make the site highly visible to support navigation.
Sb	SEED AND SOIL			The use of readily available native products to modify and enhance vegetation, or to prevent, or restore and repair soil disturbance erosion problems.
Ss	SEED STABILIZATION			A protective covering used to prevent erosion and stabilize soil on disturbed areas.
Tac	TACKING			Vegetation on steep slopes, stone, or boulders.
Tac	TACKING			Substance used to anchor stone or hay, or to stabilize the organic material to bind together.

SDSBC (Amended) - 2018

feeding dates may need to be altered to fit temperature variations, and conditions

SPECIES	RATE Per 1,000 sq ft	RATE Per Acre *	PLANTING DATES **
BAHIA	1.4 POUNDS	60 LBS.	1/1-12/31
BERMUDA	0.2 POUND	10 LBS.	2/15-7/1
CENTPEDEE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

** Seeding dates may need to be altered to fit temperature variations and conditions.

ROCKDALE WATER RESOURCES

GEORGIA 811
Utilities Protection Center, Inc.

Know what's below.
Call before you dig.

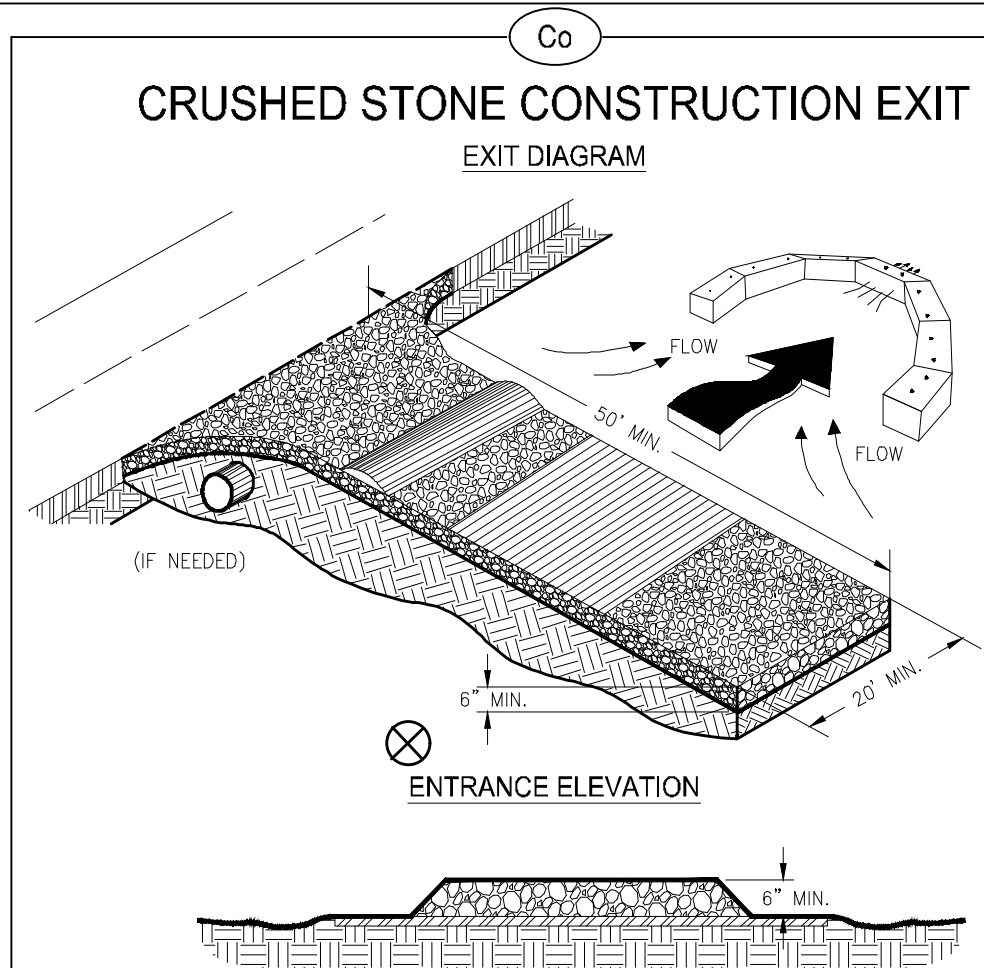
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EROSION CONTROL NOTES

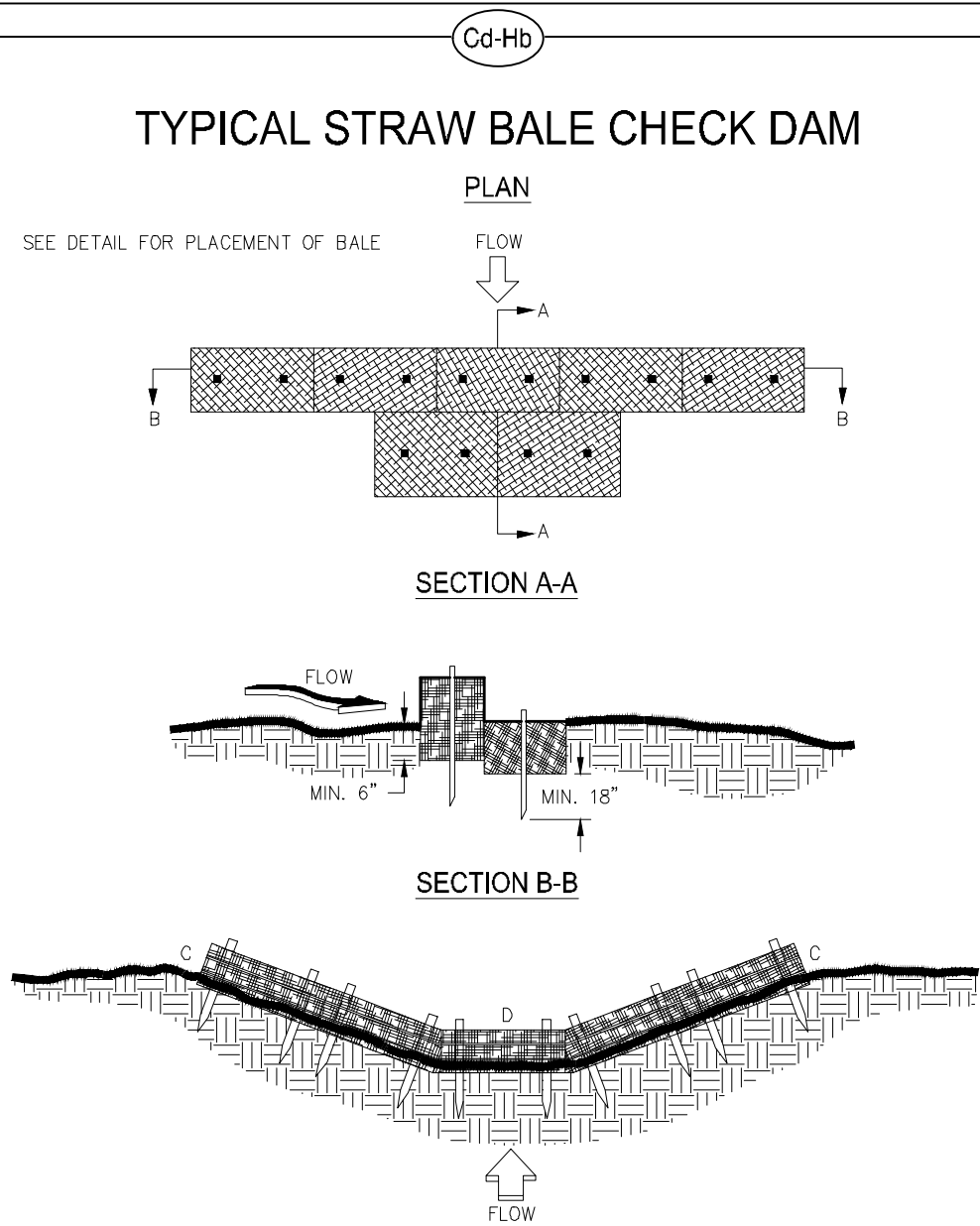
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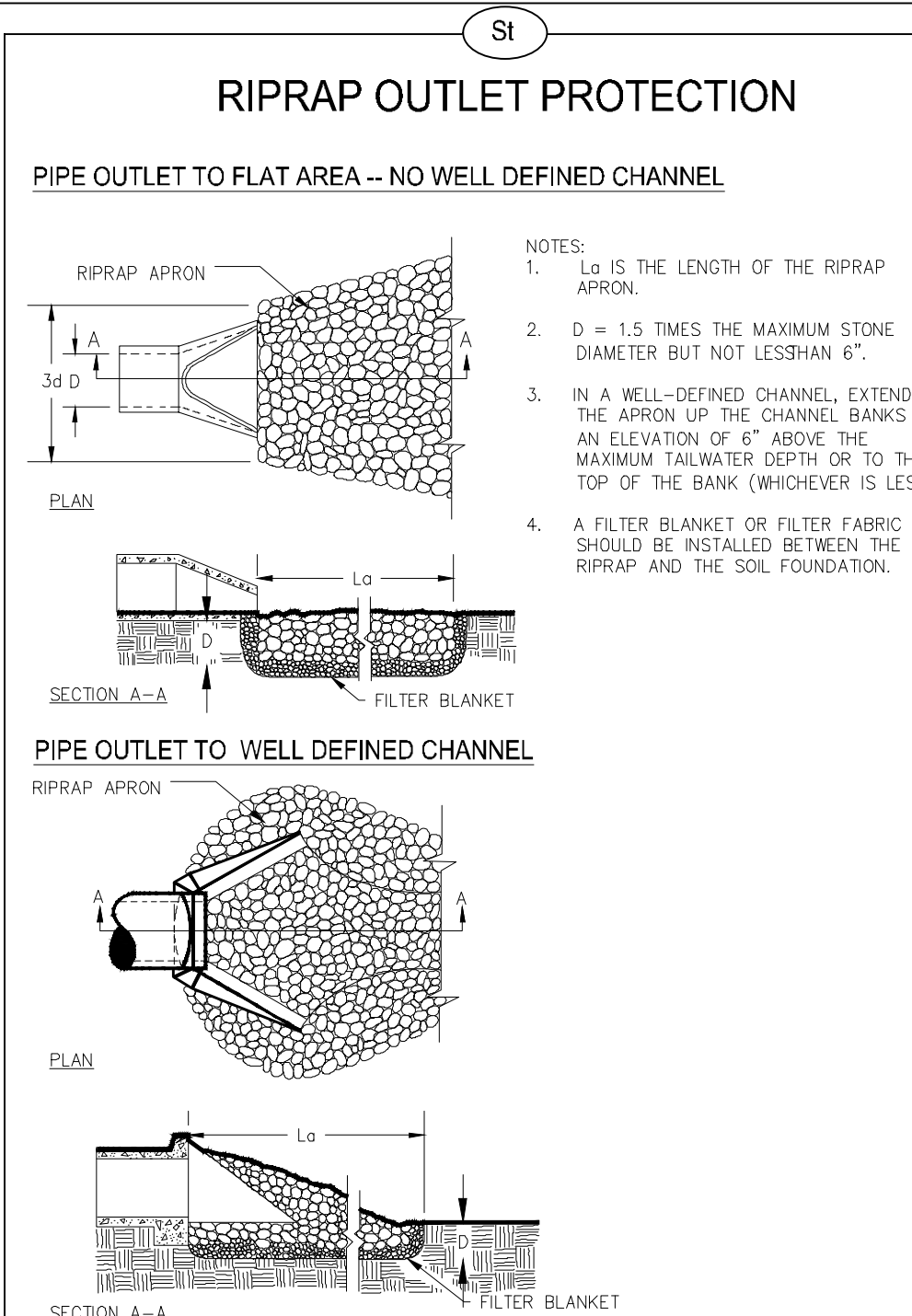
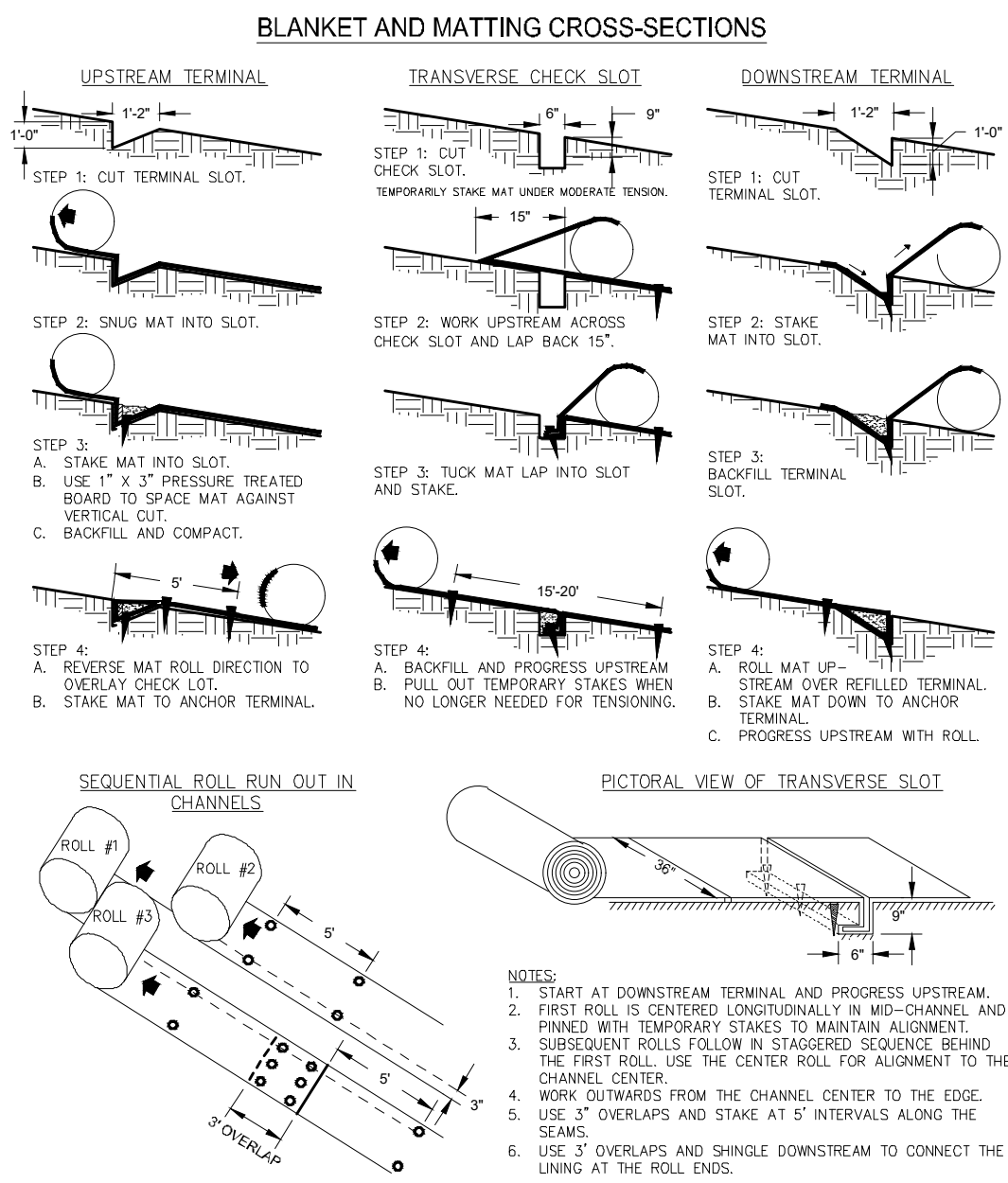
- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANDOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



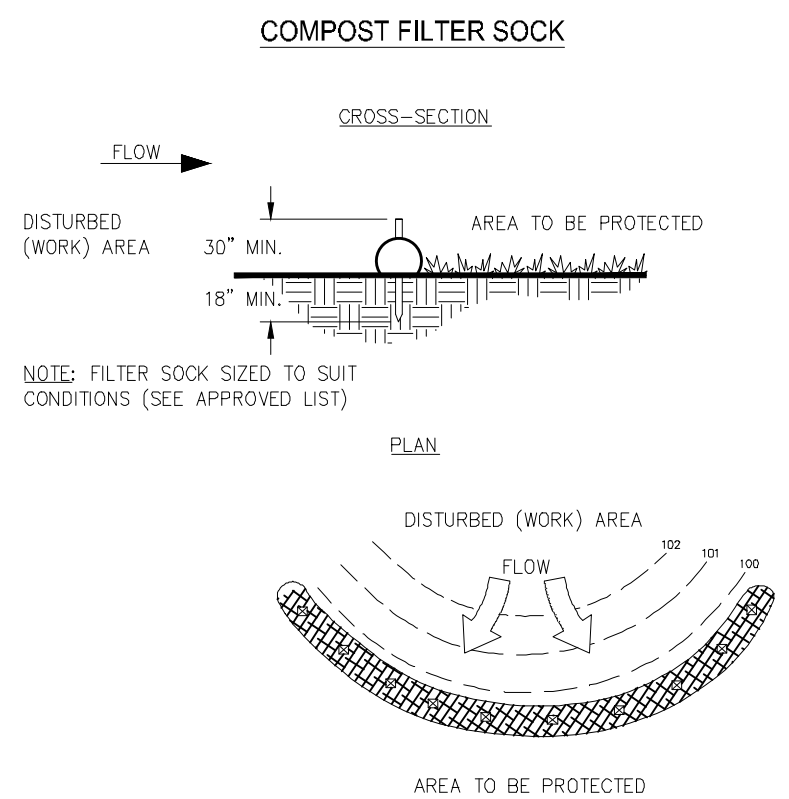
- NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Ss

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

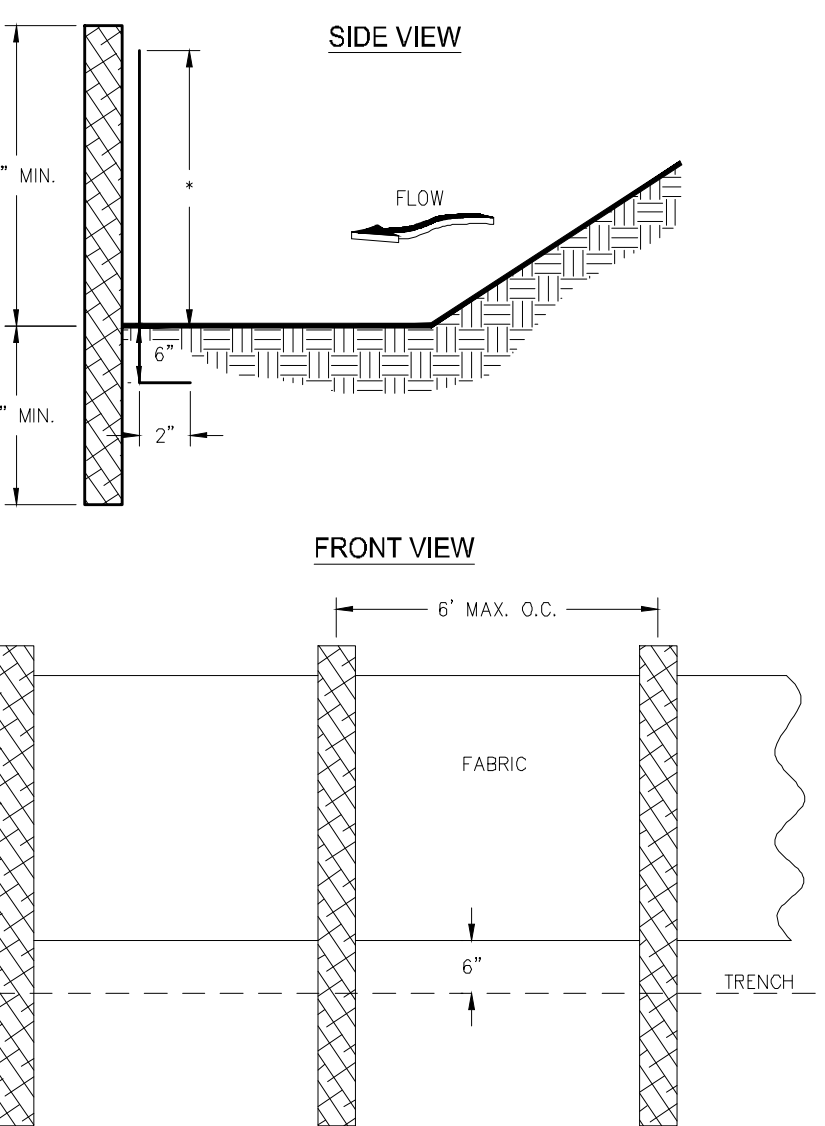


EROSION AND SEDIMENT CONTROL



Ss1-NS

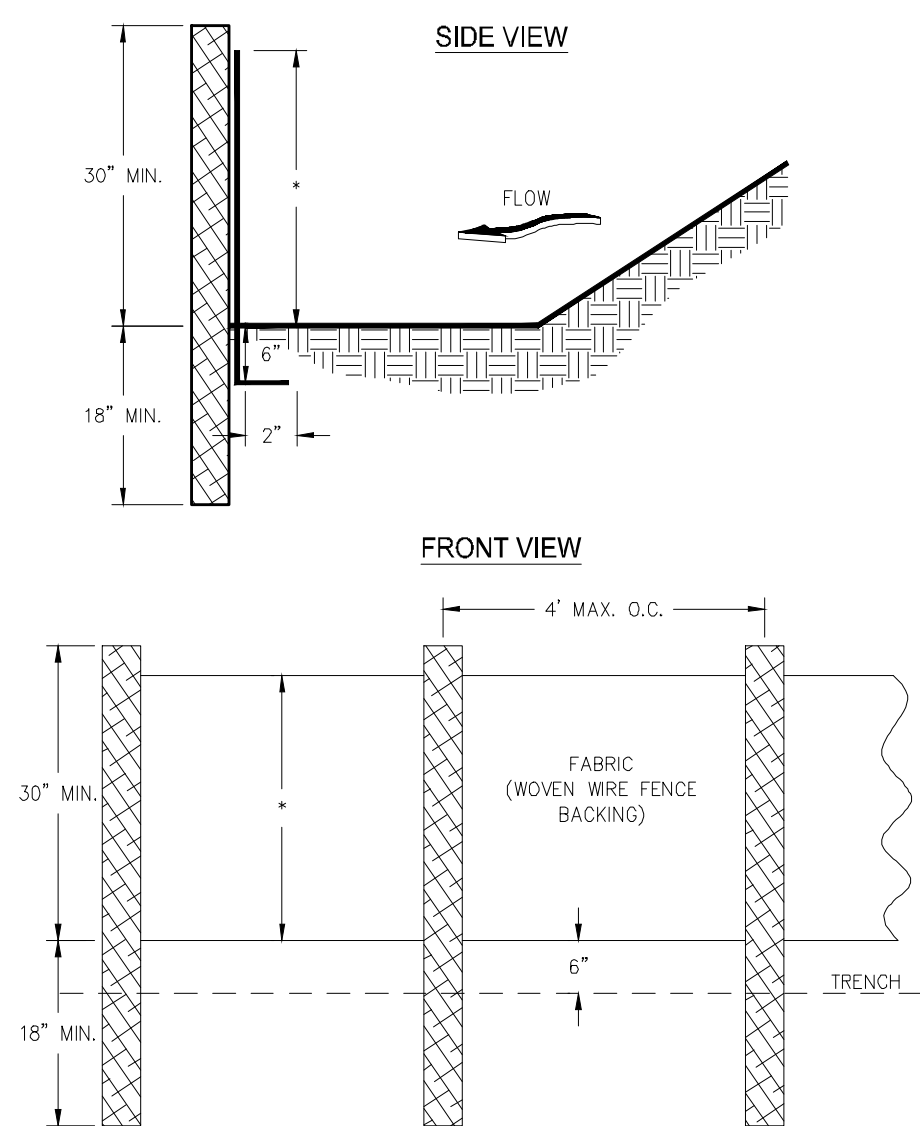
SILT FENCE - TYPE NON-SENSITIVE



- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

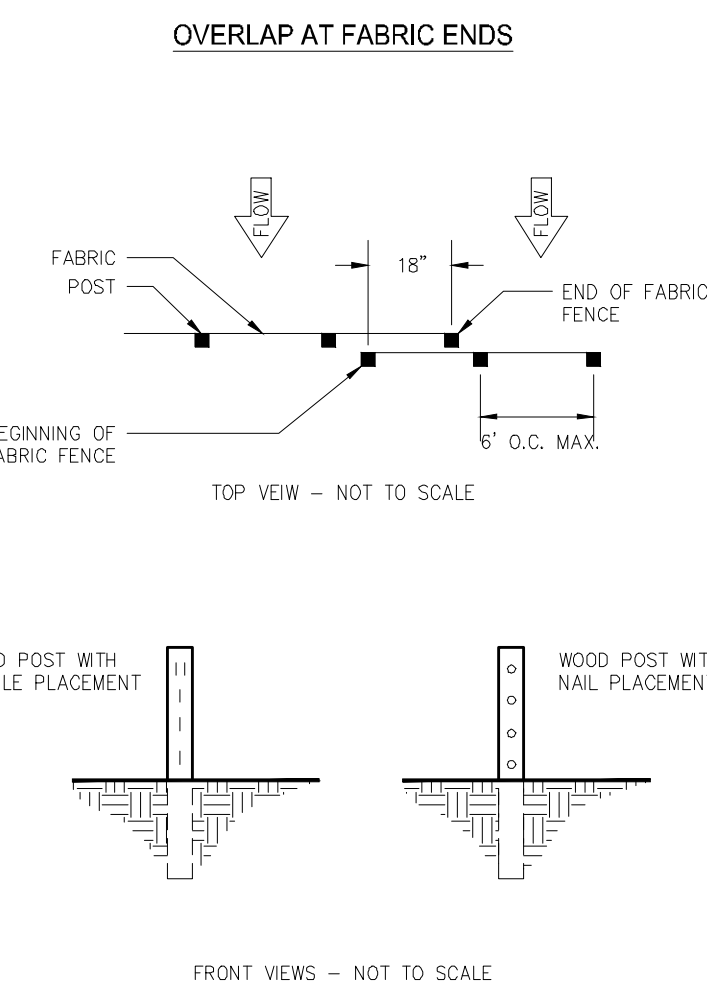
Ss1-S

SILT FENCE - TYPE SENSITIVE



- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

FASTENERS FOR SILT FENCES



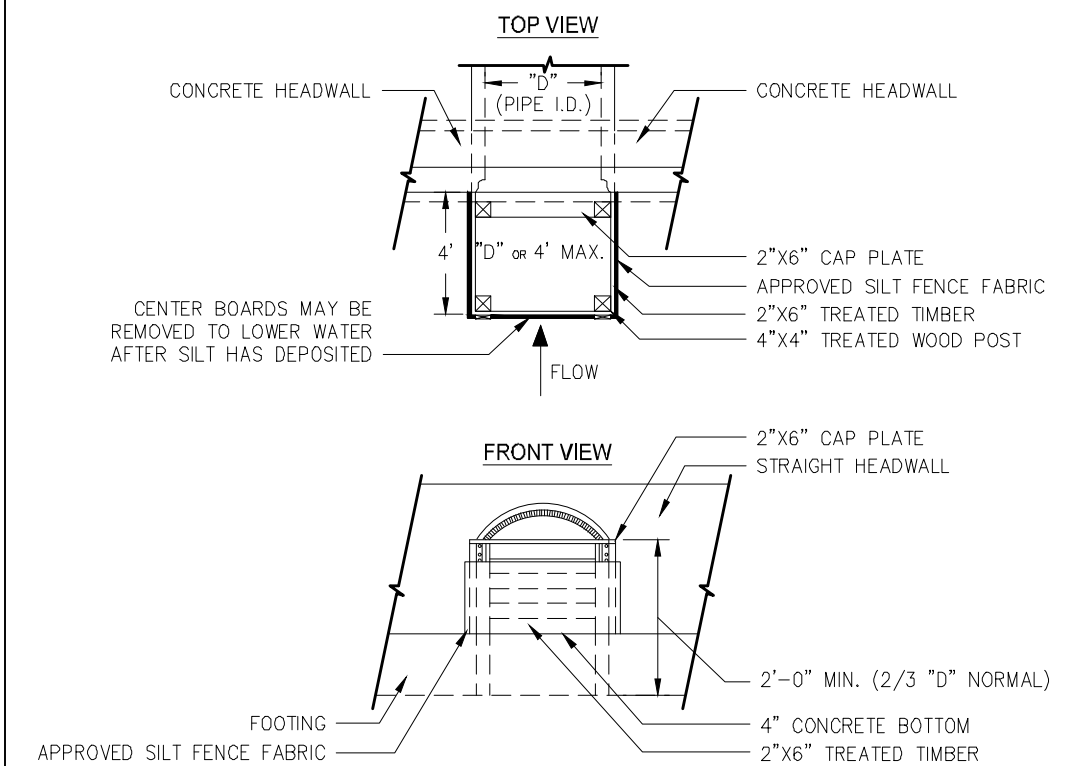
- NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

Rt-B

SILT CONTROL GATE WITH SLOTTED BOARD DAM

TYPE 2: FOR STRAIGHT HEADWALLS

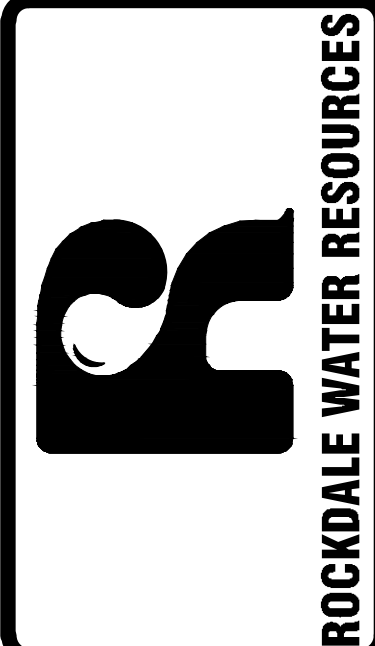
- NOTES:
1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
 2. BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
 3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
 4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
 5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
 6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
 7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



RETROFITTING

SLOTTED BOARD DAM WITH STONE OR FILTER FABRIC

- USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.
- NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.



REVISION		DESCRIPTION		DATE	
No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION
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8	11/1/22		8	11/1/22	
9	11/1/22		9	11/1/22	
10	11/1/22		10	11/1/22	

EROSION CONTROL DETAILS

DESIGNED BY: DAVID CERVONE

DRAWN BY: WALT BOBO

CHECKED BY: DAVID CERVONE

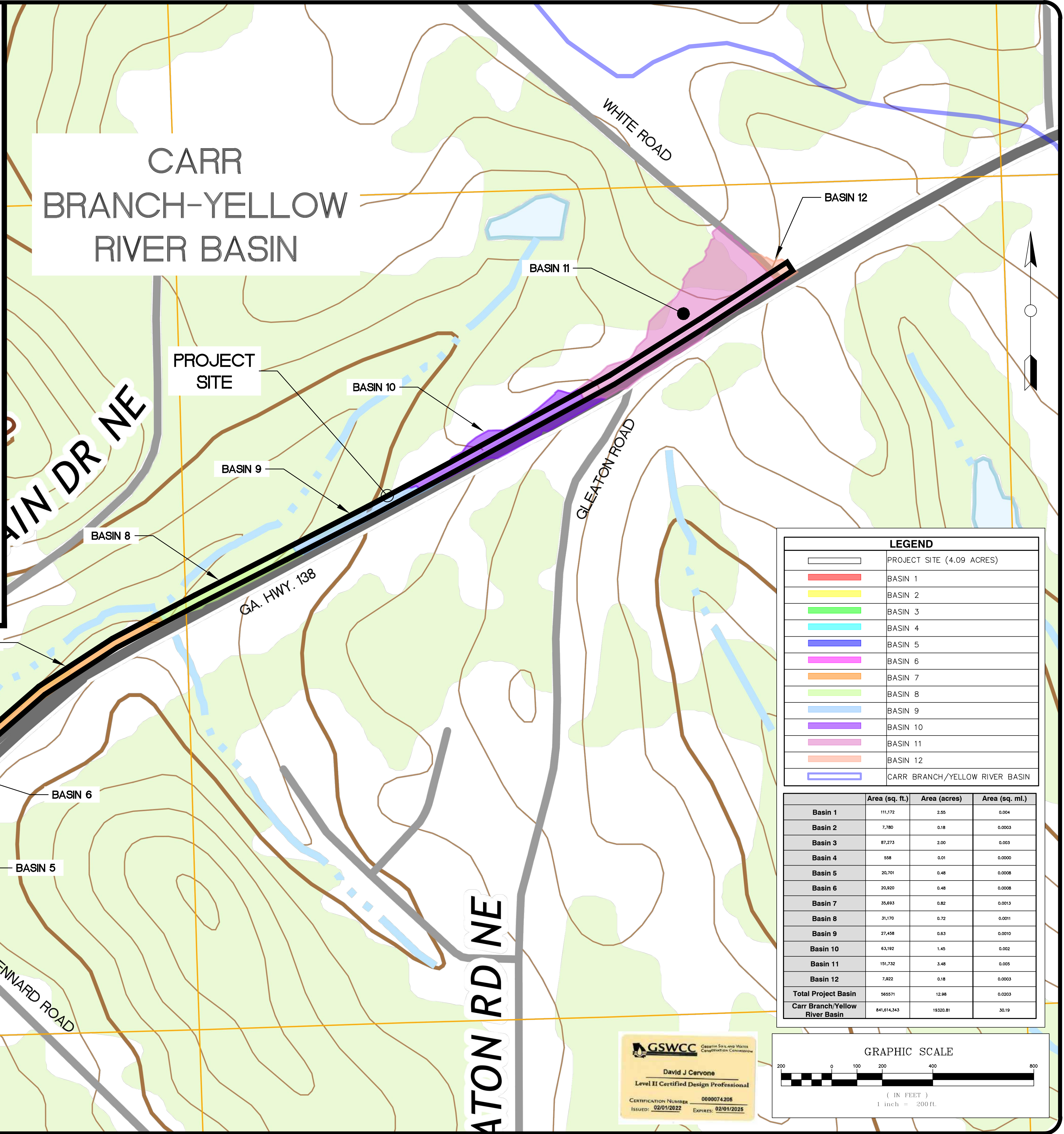
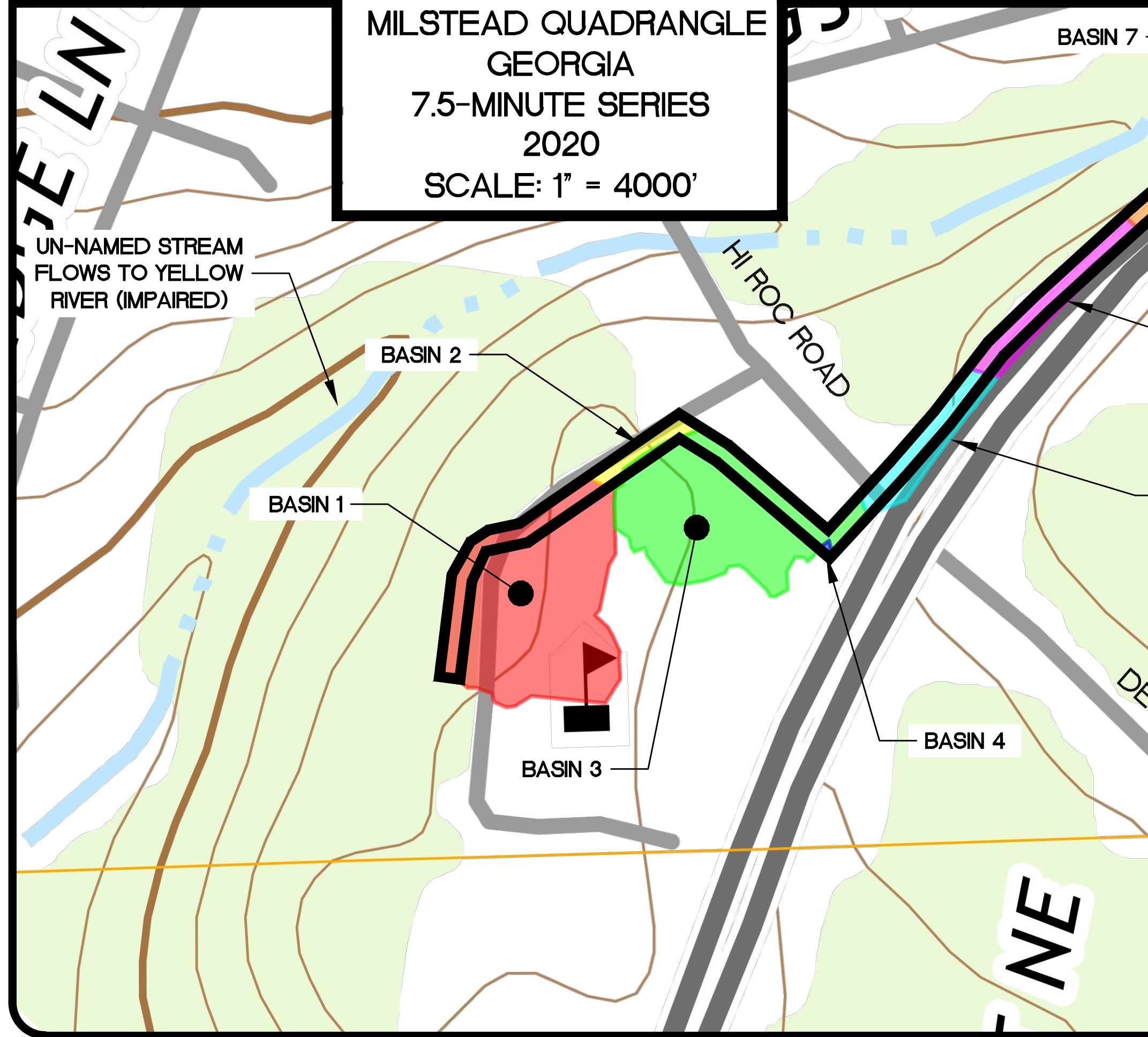
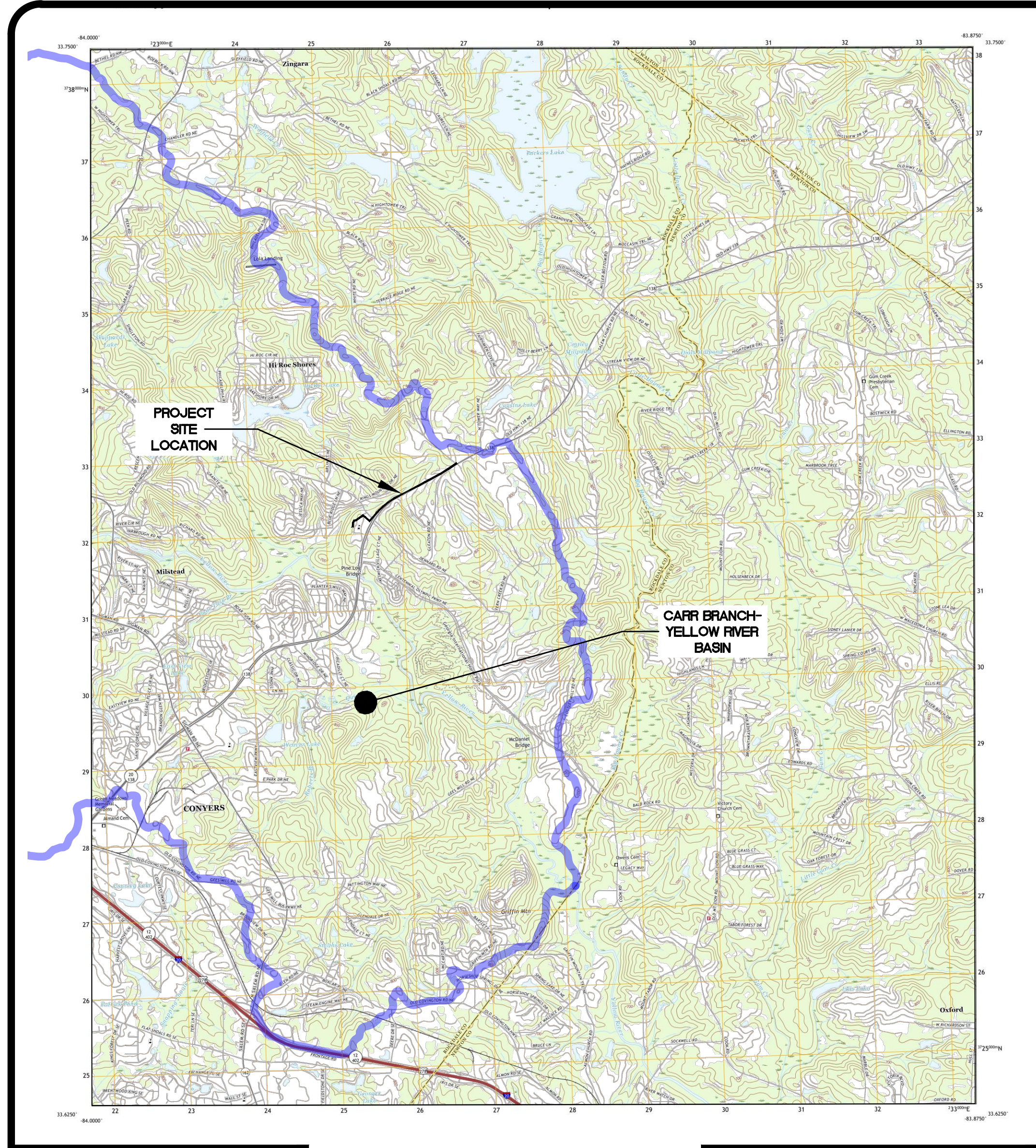
DATE: 02/22/2022

FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET 18

DRAWING No. C-14

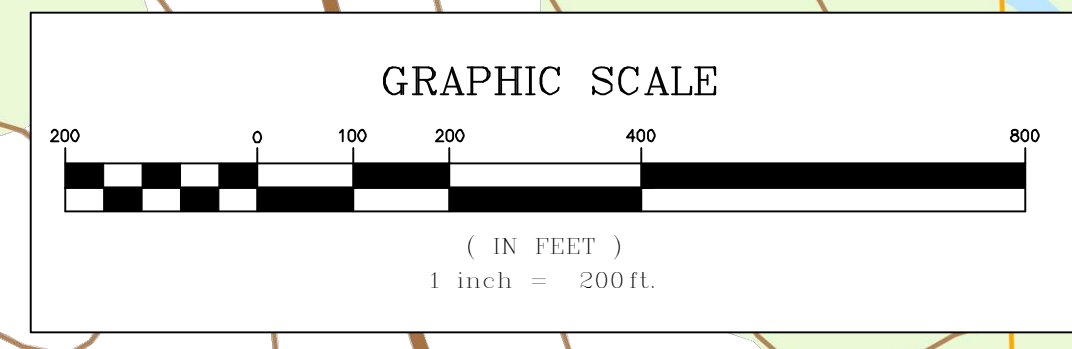




LEGEND	
	PROJECT SITE (4.09 ACRES)
	BASIN 1
	BASIN 2
	BASIN 3
	BASIN 4
	BASIN 5
	BASIN 6
	BASIN 7
	BASIN 8
	BASIN 9
	BASIN 10
	BASIN 11
	BASIN 12
	CARR BRANCH/YELLOW RIVER BASIN

	Area (sq. ft.)	Area (acres)	Area (sq. mi.)
Basin 1	111,172	2.55	0.004
Basin 2	7,780	0.18	0.0003
Basin 3	87,273	2.00	0.003
Basin 4	558	0.01	0.0000
Basin 5	20,701	0.48	0.0008
Basin 6	20,920	0.48	0.0008
Basin 7	35,693	0.82	0.0013
Basin 8	31,170	0.72	0.0011
Basin 9	27,458	0.63	0.0010
Basin 10	63,192	1.45	0.002
Basin 11	151,732	3.48	0.005
Basin 12	7,922	0.18	0.0003
Total Project Basin	565571	12.98	0.0203
Carr Branch/Yellow River Basin	841,614,343	19320.81	30.19

GSWCC Georgia Soil and Water Conservation Commission
David J Cervone
Level II Certified Design Professional
CERTIFICATION NUMBER 0000074205
ISSUED: 02/01/2022 EXPIRES: 02/01/2025



ROCKDALE WATER RESOURCES

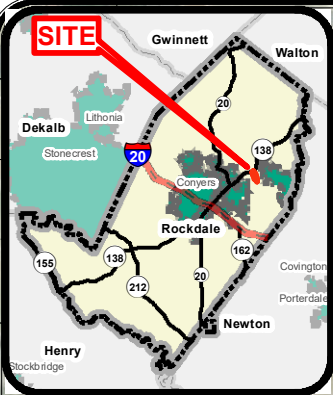
GEORGIA 811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

REVISION		DESCRIPTION
NO.	DATE	

EROSION CONTROL USGS MAP

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 02/22/2022
FILE NAME: 2245 GA HWY 138 SEWER EXT

SHEET	DRAWING No.
19	C-15



LOCATION MAP

MATERIAL LAY-DOWN SITE



LAY-DOWN SITE

Quigg Branch WWTP

