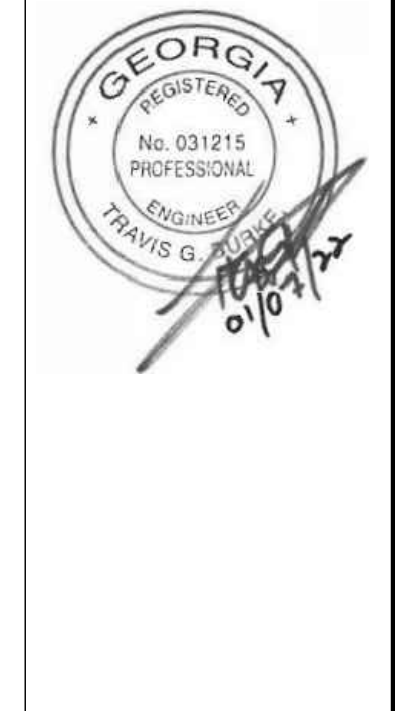


CONSTRUCTION PLANS FOR SHEAROUSE ROAD DRAINAGE REPAIR

PREPARED FOR
EFFINGHAM COUNTY



RELEASED FOR CONSTRUCTION

REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
LOCATED IN EFFINGHAM COUNTY, GA
PREPARED FOR EFFINGHAM COUNTY

JOB NUMBER: 21-232.001
DATE: 06/29/21
DRAWN BY: CCS
CHECKED BY: CCS
SCALE: AS NOTED

COVER

SHEET:
COV

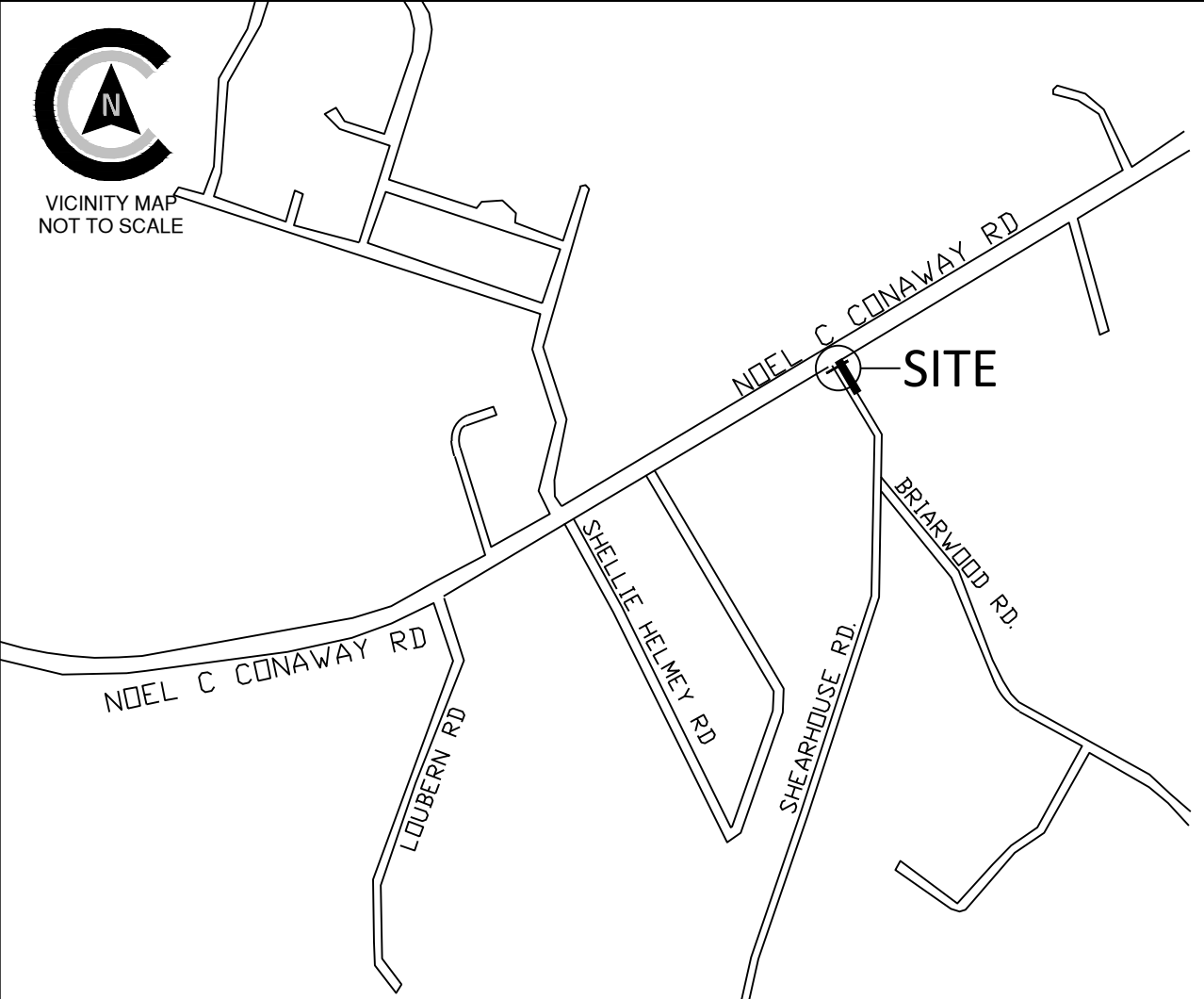
© 2018 COLEMAN COMPANY, INC. DATE PLOTTED: 1/7/2022 10:26:46 AM BY: KIMBERLY COLEMAN DRAWING PATH: C:\2021\11-232\001\DRAWING\COV\11-232-001.MAK.dwg

VICINITY MAP (N.T.S.)

REVISIONS

PROJECT SITE DATA

SHEET INDEX



NO.	DATE	DESCRIPTION

PROJECT ADDRESS:	2300 GA HWY 30
PROJECT CITY, STATE:	----, GEORGIA
OWNER/REPRESENTATIVE:	----
PROPERTY AREA:	----
DISTURBED AREA:	0.046 AC
ZONING:	----
VERTICAL DATUM:	NAVD88
HORIZONTAL DATUM:	NAD83
FLOOD ZONE:	----
WATER & SEWER PROVIDER:	----
PINS:	----
SURVEY PREPARED BY:	COLEMAN COMPANY, INC.
GEOTECHNICAL BY:	----
ARCHITECT:	----
CONSTRUCTION EXIT LOCATION:	----

Sheet Number	Sheet Title
COV	COVER
C1.0	CONSTRUCTION NOTES
C2.0	EXISTING CONDITIONS
C2.1	DEMOLITION PLAN
C3.0	STAKING PLAN
C4.0	PAVING GRADING & DRAINAGE
C5.0	PROFILES
C6.0	CONSTRUCTION DETAILS

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GENERAL NOTES:

- 1. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM, NAVD 88.
5. A MINIMUM SHOULDER WIDTH OF 4 FEET WITH A MINIMUM TRANSVERSE SLOPE OF 5% WILL BE PROVIDED ADJACENT TO CURBS AND WALKS. ALL WALKS SHALL HAVE A MINIMUM SLOPE OF 2%.
6. MAXIMUM EARTH SLOPES WILL BE 3:1. GRADE FROM SHOULDER EDGE TO RIGHT- OF-WAY AT 1% MINIMUM.
7. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.
8. PROVIDE 1/2" EXPANSION JOINT IN NEW WALKS FOR DEPTH OF CONCRETE, WITH BITUMINOUS SEAL FOR TOP 1 INCH MINIMUM DEPTH AT ABUTMENTS WITH BUILDINGS OR OTHER CONCRETE STRUCTURES.
9. SAW-CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF CONCRETE MINIMUM.
10. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING, EDGE OF SURFACE COURSE OR FACE OF CURBING UNLESS OTHERWISE NOTED.
11. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILT'S" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL, SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES, THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE, ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER, AND ANY OTHER REQUIREMENT MADE BY EFFINGHAM COUNTY.
13. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH CURRENT VERSION OF THE MANUAL FOR EROSION & SEDIMENT CONTROL, IN GEORGIA, AND AS DIRECTED BY THE ENGINEER.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
15. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.
16. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
17. CONTRACTOR SHALL PROVIDE CRUSHED STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.
18. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER RUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH HAY BALES SILT BARRIERS TO MINIMIZE SOIL TRANSPORT OFF SITE BY STORM WATERS.
19. ALL MATERIAL AND INSTALLATION PRACTICES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL MEET THE CURRENT REQUIREMENTS OF EFFINGHAM COUNTY DEVELOPMENT REGULATIONS AND SPECIFICATIONS.
20. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.
21. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
22. ANY DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHOULD CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED. THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.
23. PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, SHOULD BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.
24. SITE DRAINAGE SHOULD BE ESTABLISHED TO PREVENT ANY PONDING WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.
25. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
26. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
27. THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM-D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THEN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
28. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHOULD BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.
29. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
30. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM EFFINGHAM COUNTY CONVEYANCE AND DISTRIBUTION DEPARTMENT.
31. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO FOLLOW THE COMPREHENSIVE MONITORING PLAN PREPARED FOR THE DEVELOPER BY COLEMAN COMPANY, INC.
32. ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + 1" c.c. THREADED.
33. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY AMERICAN, DARLING, MUELLER OR M&H.
34.50 L.F. OF UNDERDRAIN AND ROCK SHALL BE INSTALLED FROM EACH SIDE OF EACH GRADE INLET. CONTRACTOR SHALL VERIFY THE STATIC WATER ELEVATION OF THE PROPOSED/EXISTING DRAINAGE SYSTEM EACH ROADSIDE INLET IS A COMPONENT OF AND NOT INSTALL THE UNDERDRAIN BELOW THAT STATIC ELEVATION.
35. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.
36. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ADJUTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS.
37. CONTRACTOR(S) SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR(S) ARE RESPONSIBLE FOR LOCATING, PROTECTING, REPAIRING, AND REPLACING ANY AND ALL UNDERGROUND UTILITIES DURING ALL PHASES OF CONSTRUCTION. COLEMAN COMPANY, INC. HAS MADE A DILIGENT EFFORT TO LOCATE ALL ABOVE AND BELOW GROUND UTILITIES BUT CANNOT GUARANTEE THAT ALL PRESENT UTILITIES HAVE BEEN IDENTIFIED. CONTRACTOR SHALL CALL UTILITY PROTECTION CENTER (1-800-282-7411) AT LEAST 3 DAYS PRIOR TO DIGGING AND SHALL NOT BEGIN DIGGING UNTIL ALL UNDERGROUND UTILITY LOCATIONS ARE COMPLETE.
38. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED AT THE CONTRACTOR'S EXPENSE.
39. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 18" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
40. ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
41. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO TOP OF VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
42. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. SERVICES SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
43. TRACER WIRE SHALL BE REQUIRED ON ALL STORM PIPE.
44. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.

- 45. THE CONTRACTOR SHALL HAVE A CERTIFIED EROSION AND SEDIMENTATION CONTROL INSPECTOR ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.
46. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH EFFINGHAM COUNTY'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.
47. ALL CURB AND GUTTER TO BE 18" STANDARD PITCH CURB UNLESS OTHERWISE NOTED.
48. FOR CITY WATER AND SEWER LINE LOCATIONS, CONTACT THE UTILITIES PROTECTION CENTER (1-800-282-7411) A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
49. NOT USED.
50. STORM SEWER SPECIFICATIONS FOR MANHOLE COVER IN STREET:

GENERAL: ALL CASTINGS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA BY NEENAH FOUNDRY COMPANY, U.S. FOUNDRY & MANUFACTURING CORPORATION, EAST JORDAN IRON WORKS, INC. OR APPROVED EQUAL. THEY SHALL BE OF UNIFORM QUALITY, FREE FROM SAND HOLES, SHRINKAGE, CRACKS, COLD SHUTS OR OTHER DEFECTS. CASTINGS SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING.

MATERIALS: GRAY IRON CASTINGS SHALL BE MANUFACTURED FROM IRON CONFORMING TO ASTM A48 CLASS 35B AND ASTM A48 CLASS 30. DUCTILE IRON CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER PROPERLY. ROUND MANHOLE FRAMES, COVERS AND GRATES SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING. TOLERANCES SHALL BE ACCEPTED FOUNDRY STANDARDS AS OUTLINED IN THE IRON CASTINGS HANDBOOK PUBLISHED BY THE AMERICAN FOUNDRYMEN'S SOCIETY, INC. CASTINGS WEIGHTS SHALL NOT VARY MORE THAN 5% ABOVE OR BELOW THOSE VALUES REPRESENTED BY THE MANUFACTURER.

MARKINGS: ALL CASTINGS SHALL BE CLEARLY MARKED WITH THE MANUFACTURER'S NAME, COMPANY LOGO AND "MADE IN USA" IN CAST LETTERS. ADDITIONALLY, THE TOP OR TRAFFIC SIDE OF ALL CASTINGS SHALL BE CLEARLY MARKED "STORM" AND "EFFINGHAM COUNTY" IN FLUSH CAST LETTERS AND THE TOP OR TRAFFIC SIDE OF ALL CASTINGS DESIGNED TO COLLECT WATER, (CATCH BASINS, GRATES, ETC.) SHALL BE CLEARLY MARKED "DRAINS TO RIVER - DO NOT DUMP" OR SIMILAR VERBIAGE THAT ACHIEVES THE SAME MEANING.

51. INTERNATIONAL FIRE CODE, 2018 EDITION:
SECTION 3310
ACCESS FOR FIRE FIGHTING
3310.1 REQUIRED ACCESS. APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET (30.5 METERS) OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING WEIGHTS UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

SECTION 3312
WATER SUPPLY FOR FIRE PROTECTION
3312.1 WHEN REQUIRED, AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.

52. MAXIMUM BUILDING HEIGHT IS TO BE 45' PER APPENDIX A, ARTICLE III, SECTION 6 OF EFFINGHAM COUNTY CODIFIED ORDINANCES.

53. IN THE CASE OF ANY CONFLICT OF THESE CONSTRUCTION DOCUMENTS AND EFFINGHAM COUNTY CODIFIED ORDINANCES, STANDARDS, SPECIFICATIONS, OR DETAILS, EFFINGHAM COUNTY STANDARDS ARE TO TAKE PRECEDENCE.

ADA NOTES:
1. ACCESSIBLE ROUTE - EXTERIOR:
MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'x5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.

2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:
A. 0 TO 1/4": NO REQUIREMENTS
B. 1/4" TO 1/2": BEVEL WITH 1:2 SLOPE
C. LARGER THAN 1/2": CONFORM TO REQUIREMENTS FOR RAMP

3. RAMPS:
MAX RAMP SLOPE 8.33% (1:12)
RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE
MAX RISE FOR ANY RAMP RUN IS 30" AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30'

A. LANDINGS:
RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
LANDINGS SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
LANDING LENGTH SHALL BE MINIMUM 5' CLEAR
IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'x5'.
ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.

B. HANDRAILS:
HANDRAILS REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 8'.
PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS.
PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.

4. CURB RAMPS:
MAX SLOPE OF CURB RAMP 8.33%
MAX SLOPE OF SIDE FLARES 10%
MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHT OF WAYS, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.

5. PAVEMENT MARKINGS:
AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)

6. PARKING SPACES:
MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE.
MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION

7. SIGNAGE:
ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBTSCURED BY A VEHICLE PARKED IN THE SPACE. (SIGNAGE TO BE INSTALLED AT A MINIMUM HEIGHT OF 7' TO BOTTOM OF VAN ACCESSIBLE DESIGNATION, AND 7' MINIMUM TO THE BOTTOM OF ALL OTHER SIGN FACES).

8. ACCESSIBLE ROUTES:
MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI 1117.1-2003

- WATER - SEWER NOTES:
1. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE LATEST EFFINGHAM COUNTY CONSTRUCTION SPECIFICATIONS.
2. ANY PIPE, SOLDER AND FLUX USED DURING INSTALLATION OF THE WATER LINES MUST BE "LEAD FREE" IN ACCORDANCE WITH THE LATEST EFFINGHAM COUNTY CONSTRUCTION SPECIFICATIONS.
3. MAINTAIN MINIMUM HORIZONTAL/VERTICAL CLEARANCE IN ACCORDANCE WITH THE LATEST EFFINGHAM COUNTY CONSTRUCTION SPECIFICATIONS.
4. WHERE THE WATER MAIN CROSSES SEWER OR STORM PIPES, THE WATER LINE SHALL BE DUCTILE IRON IN ACCORDANCE WITH THE LATEST EFFINGHAM COUNTY CONSTRUCTION SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE.
6. MAXIMUM COVER FOR THE WATER MAIN SHALL BE IN ACCORDANCE WITH THE LATEST EFFINGHAM COUNTY CONSTRUCTION SPECIFICATIONS.
7. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS OF SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER WITH INVERT DATA TO INSURE THERE ARE NO CONFLICTS.
8. ALL FILLING AND HYDROSTATIC TESTING OF NEW MAINS SHALL BE COORDINATED WITH AND WITNESSED BY THE CITY'S INSPECTOR.
9. INTERNAL FIRE SPRINKLER PROTECTION IS TO BE DESIGNED AND SUBMITTED SEPARATELY, BY OTHERS, TO BUILDING INSPECTIONS AS NECESSARY.
10. INDUSTRIAL WASTEWATER DISCHARGE IS NOT ANTICIPATED NOR DESIGNED FOR WITH THIS DEVELOPMENT.
11. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.

DEVELOPMENT REQUIREMENTS:
FRONT SETBACK: ??
SIDE YARD SETBACKS: ??
REAR YARD SETBACK: ??
20% OPEN SPACE REQD: ??
OPEN SPACE PROVIDED: ??
*PER PUD - FRONT SETBACK CAN VARY TO A MIN. 10' FROM R.O.W. TO PROMOTE STAGGERED FRONTAGES CANOPY SETBACK FROM R.O.W. 45.22'
BUILDING AREA = ??
PARKING REQUIRED = ??
PARKING PROVIDED = ??

SITE INFORMATION:
PARENT PIN: ----
ZONING DISTRICT: ----
FLOOD ZONE: ----
SIZE: ----
PROPOSED LAND USE:

EROSION CONTROL NOTES:
1. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) ON THE SITE AT ALL TIMES IN ACCORDANCE WITH THESE PLANS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA".
2. NARRATIVE DESCRIPTION:

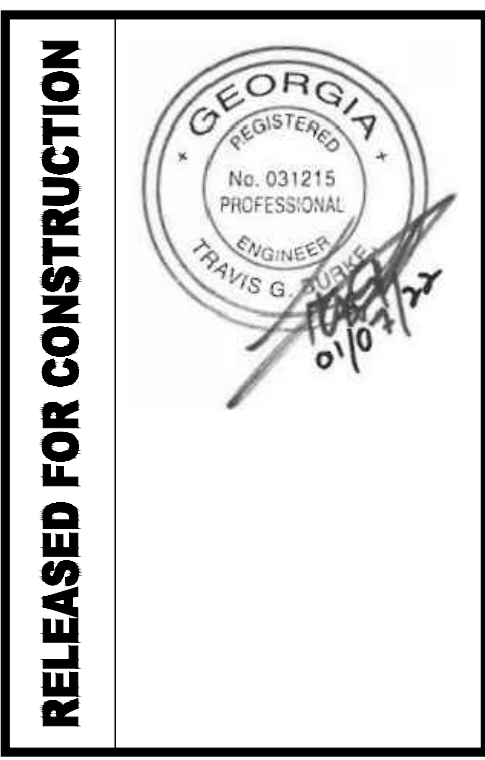
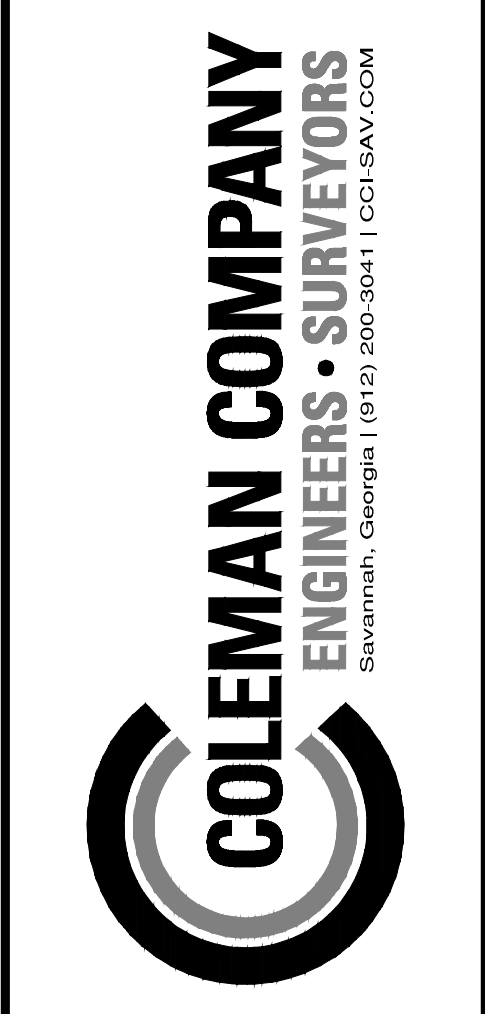
LOCATION: 1952 Noel C Conway Rd, Guyton, GA 31312 (APPROXIMATE LOCATION)
PINS: ----
NATURE OF WORK: DRAINAGE REPAIR

SIZE: TOTAL PROPERTY ACREAGE: 1.82 ACRES
DISTURBED ACREAGE: 0.02 ACRES
ZONING CLASSIFICATION: ----
MAXIMUM BUILDING HEIGHT:

- PHASES: THE WORK WILL BE PERFORMED IN ONE PHASE.
3. THERE ARE NO APPARENT WATERS OF THE UNITED STATES WITHIN 200 FEET OF THE PROJECT SITE.
4. THERE ARE NO APPARENT WETLANDS PRESENT ON THE PROPERTY.
5. ALL SUITABLE TOPSOIL WILL BE STOCKPILED BY THE CONTRACTOR AND SPREAD IN PROPOSED VEGETATIVE AREAS PRIOR TO LANDSCAPE INSTALLATION.
6. THE SOILS ON SITE ARE: Aa (ALBANY SAND).
7. THIS SITE IS CURRENTLY DEVELOPED AS SHEAROUSE ROAD.
8. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA".
9. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
10. THE CONTRACTOR SHALL ENSURE THAT STRUCTURAL EROSION CONTROL MEASURES ARE INSPECTED DAILY. ANY DEFICIENCIES, INCLUDING SILT REMOVAL, OBSERVED SHALL BE REPAIRED BY THE END OF THAT DAY'S WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A DAILY INSPECTION LOG AND NOTIFYING THE OWNER AND ENGINEER OF ANY DEFICIENCIES IDENTIFIED IN THE EROSION CONTROL MEASURES. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE STABILIZED.
11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
12. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
13. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
14. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THIS PROJECT SITE DOES NOT APPEAR TO LIE IN AN FLOOD HAZARD AREA AS DEPICTED ON FIRM PANEL NO. 13103C022E EFFECTIVE DATE: MARCH 16, 2015.
15. CONTACT INFORMATION:

CIVIL ENGINEER: CHARLES C. "CHUCK" SINGLETON III, PE
COLEMAN COMPANY, INC.
1480 CHATHAM PKWY, SUITE 100
SAVANNAH, GA 31405
P: 912.200.3041
F: 912.200.3056
OWNER/REPRESENTATIVE CONTACT: EFFINGHAM COUNTY DEVELOPMENT SERVICES
ATTN: MR. ERIC LARSON
904 NORTH PINE STREET
SPRINGFIELD, GA 31329
ELARSON@EFFINGHAMCOUNTY.ORG

Table with 4 columns: AREA, IMPERVIOUS CN, Q25, Q25. Rows include PRE-DEVELOPMENT and POST-DEVELOPMENT with values for 1.82ac and 0.02ac.



REVISIONS: table with columns for revision number and description.

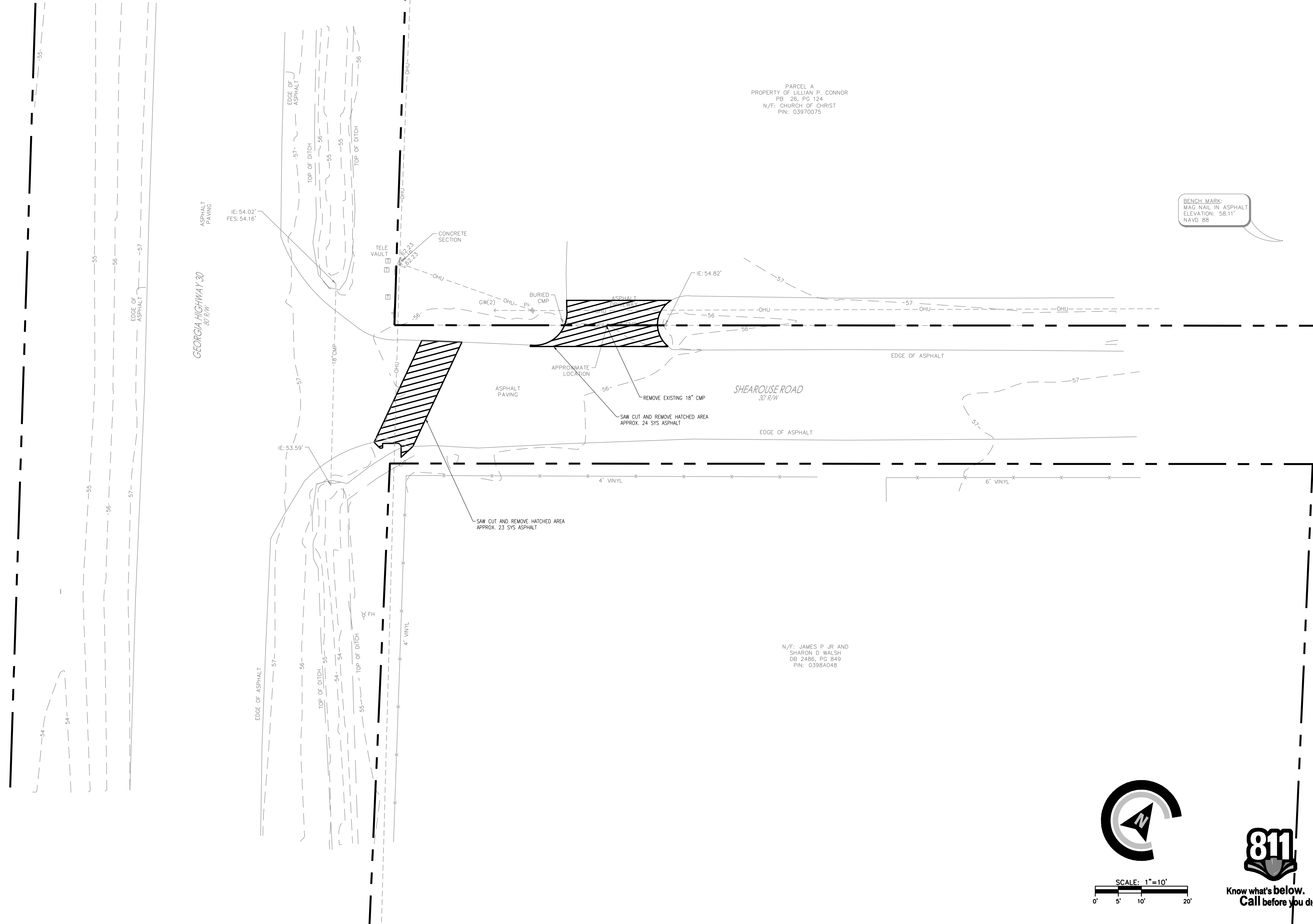
CIVIL CONSTRUCTION PLANS FOR SHEAROUSE ROAD DRAINAGE REPAIR
LOCATED IN EFFINGHAM COUNTY, GA
PREPARED FOR EFFINGHAM COUNTY

Table with 2 columns: JOB NUMBER, DATE, DRAWN BY, CHECKED BY, SCALE. Values include 21-232.001, 06/29/21, CCS, CCS, AS NOTED.

CONSTRUCTION NOTES

SHEET: C1.0

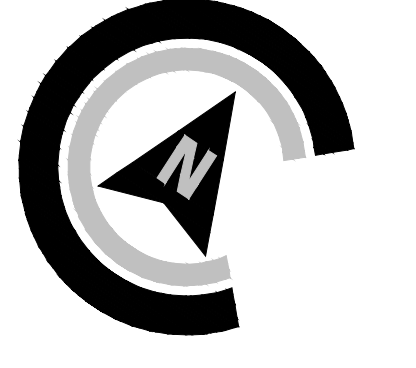




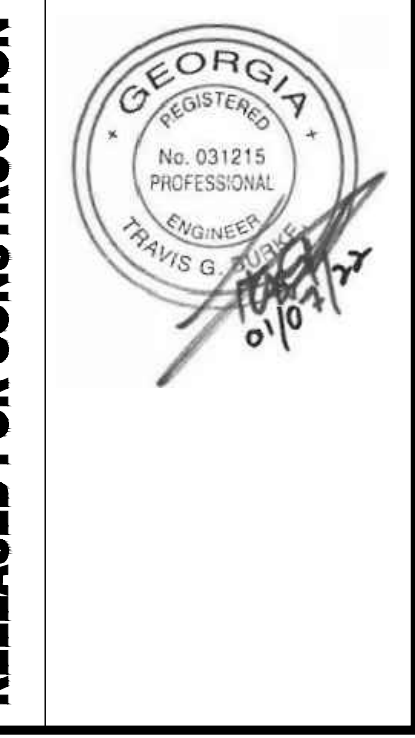
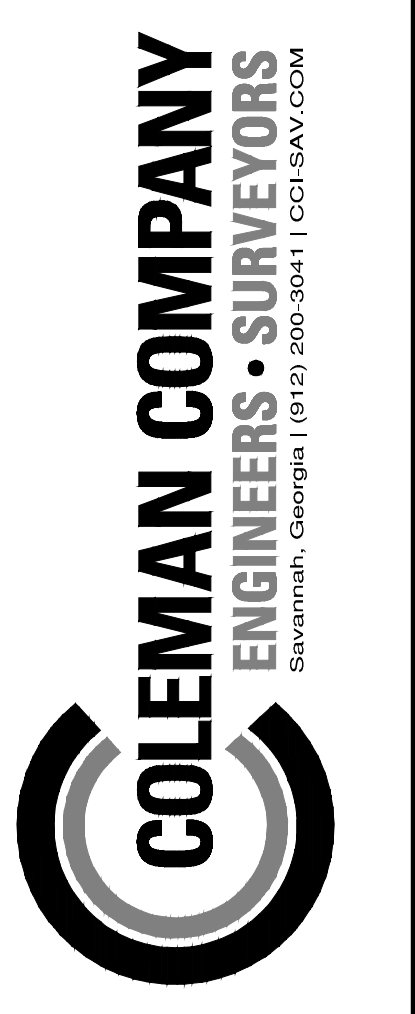
PARCEL A
PROPERTY OF LILLIAN P. CONNOR
PB 26, PG 124
N/F: CHURCH OF CHRIST
PIN: 03970075

N/F: JAMES P JR AND
SHARON D WALSH
DB 2486, PG 849
PIN: 0398A048

BENCH MARK:
MAG NAIL IN ASPHALT
ELEVATION: 58.11'
NAVD 88



SCALE: 1"=10'
0 5 10 20'



RELEASED FOR CONSTRUCTION

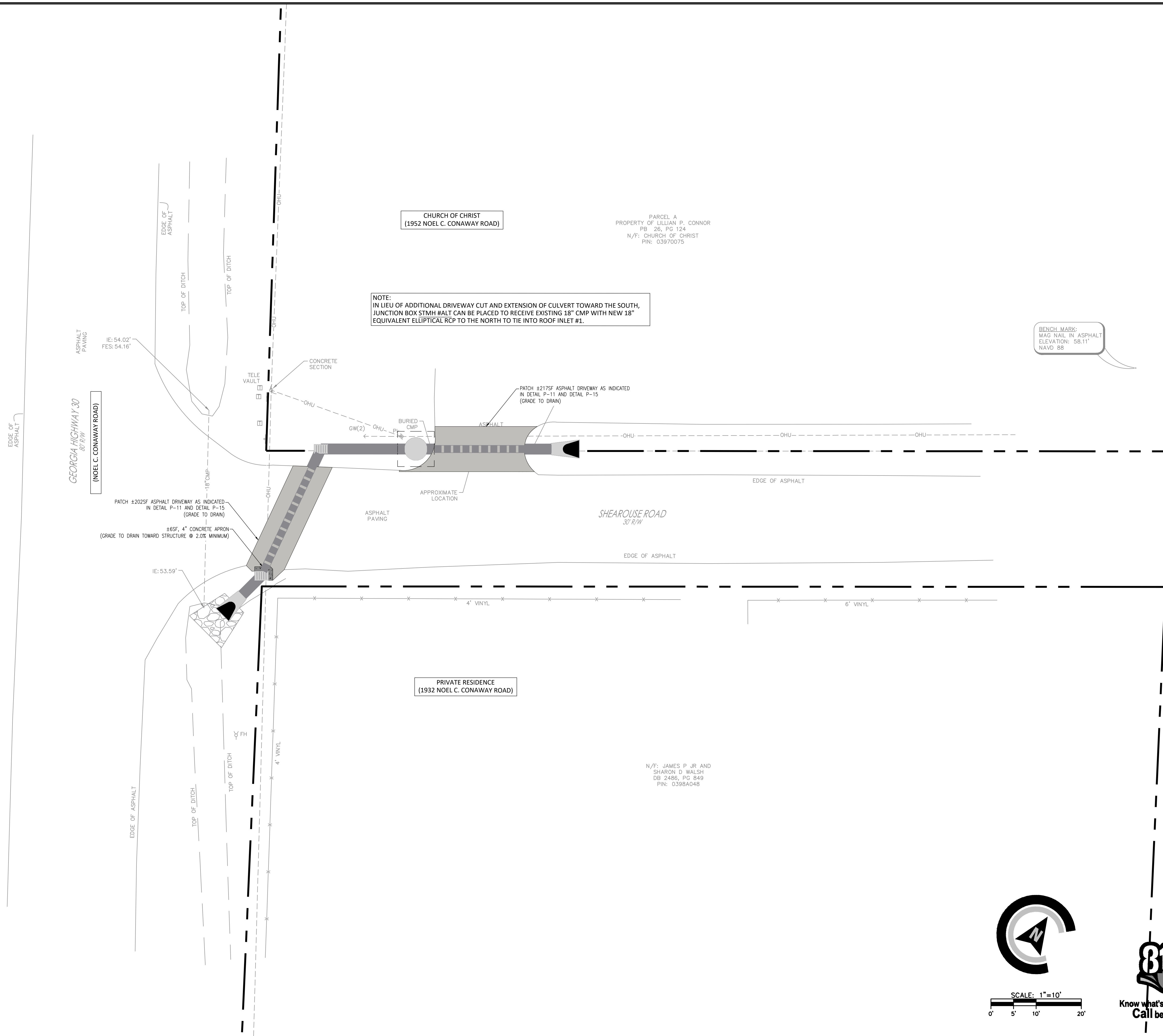
REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
LOCATED IN EFFINGHAM COUNTY, GA
PREPARED FOR EFFINGHAM COUNTY

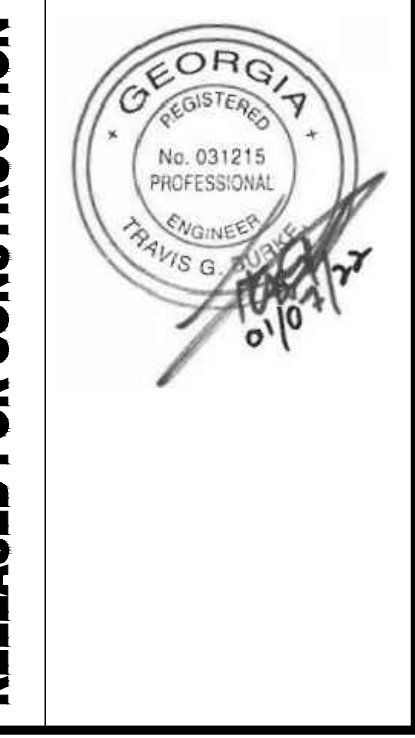
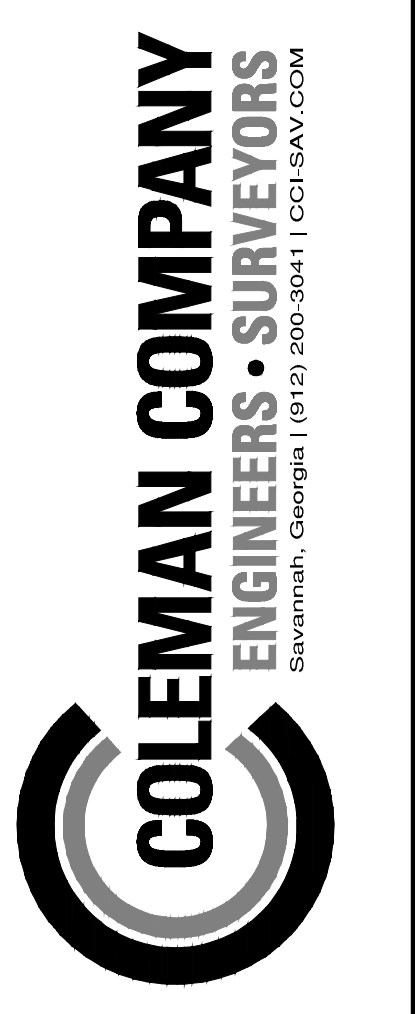
JOB NUMBER: 21-232.001
DATE: 06/29/21
DRAWN BY: CCS
CHECKED BY: CCS
SCALE: AS NOTED

DEMOLITION PLAN

SHEET:
C2.1



BENCH MARK:
MAG NAIL IN ASPHALT
ELEVATION: 58.11'
NAVD 88



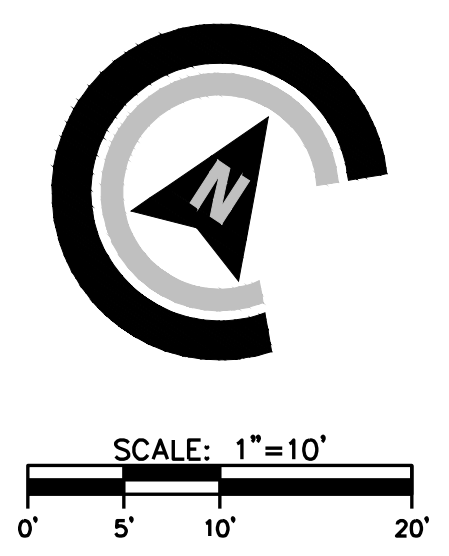
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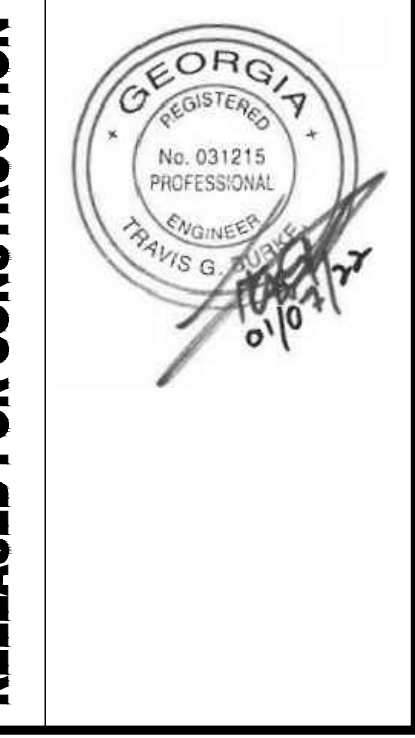
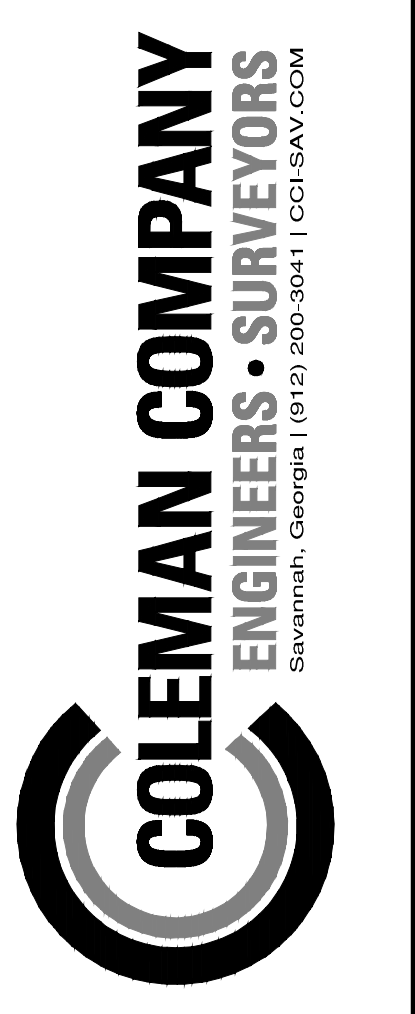
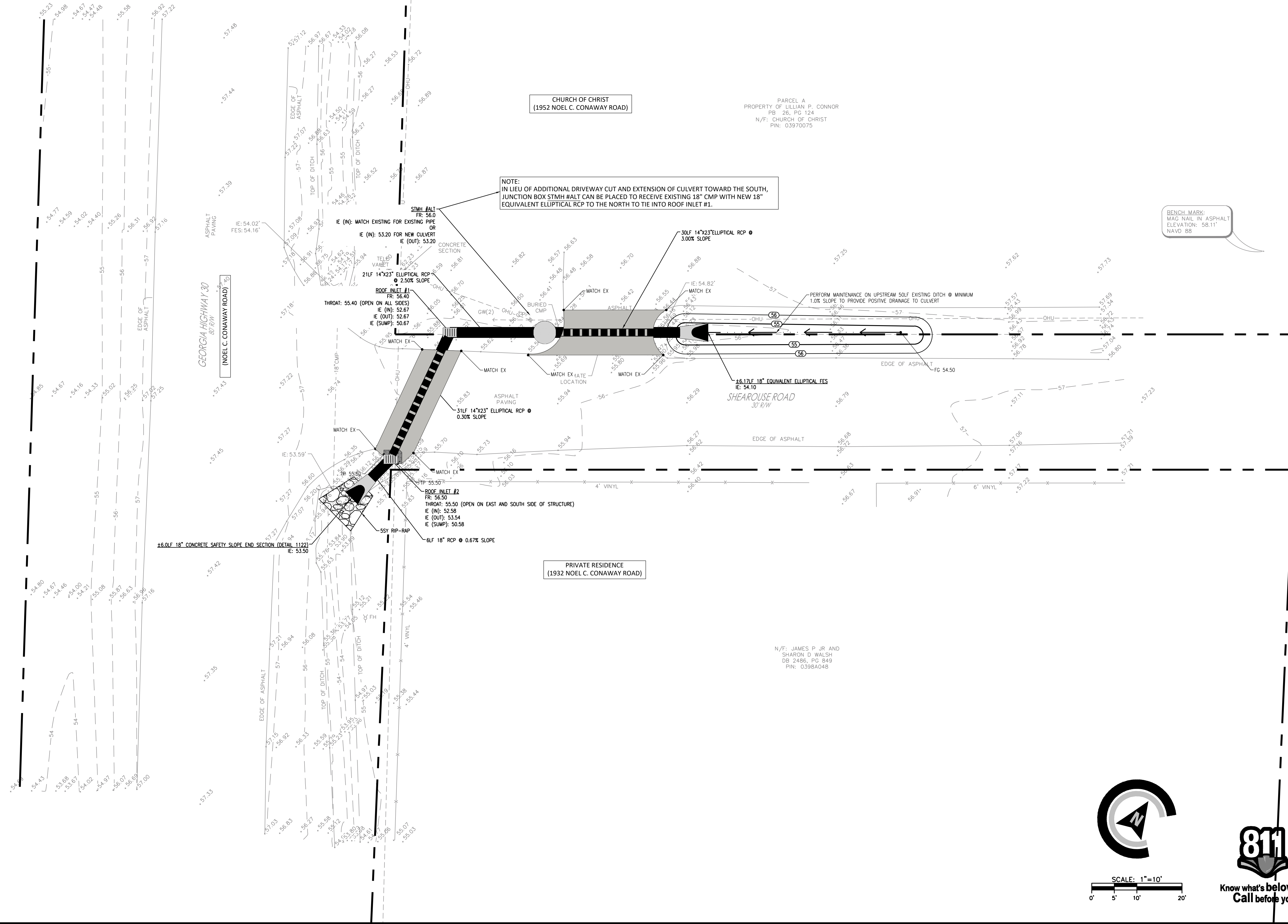
CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
LOCATED IN EFFINGHAM COUNTY, GA
PREPARED FOR EFFINGHAM COUNTY

JOB NUMBER: 21-232.001
DATE: 06/29/21
DRAWN BY: CCS
CHECKED BY: CCS
SCALE: AS NOTED

STAKING PLAN

SHEET:
C3.0





RELEASED FOR CONSTRUCTION

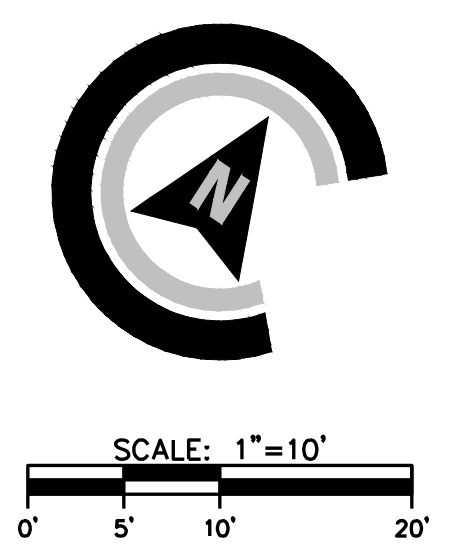
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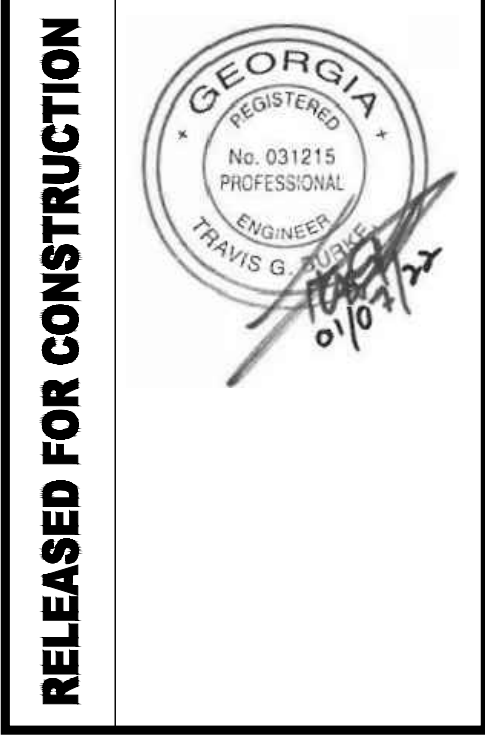
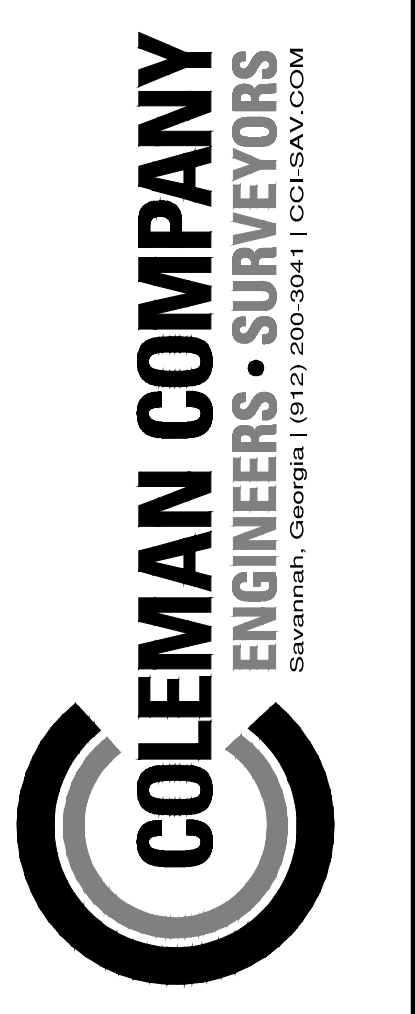
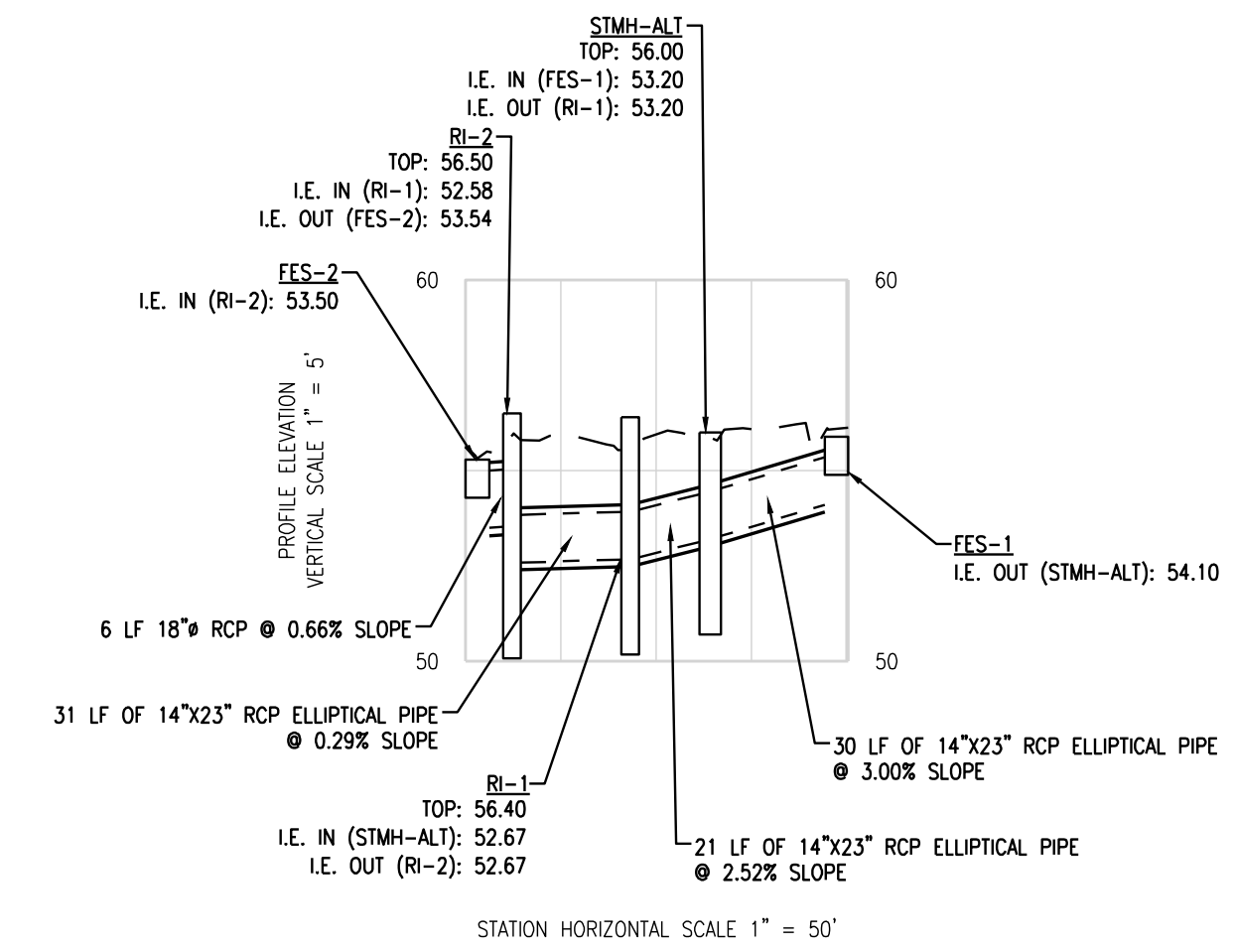
CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
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JOB NUMBER: 21-232.001
 DATE: 06/29/21
 DRAWN BY: CCS
 CHECKED BY: CCS
 SCALE: AS NOTED

PAVING GRADING
 & DRAINAGE

SHEET:
C4.0





RELEASED FOR CONSTRUCTION

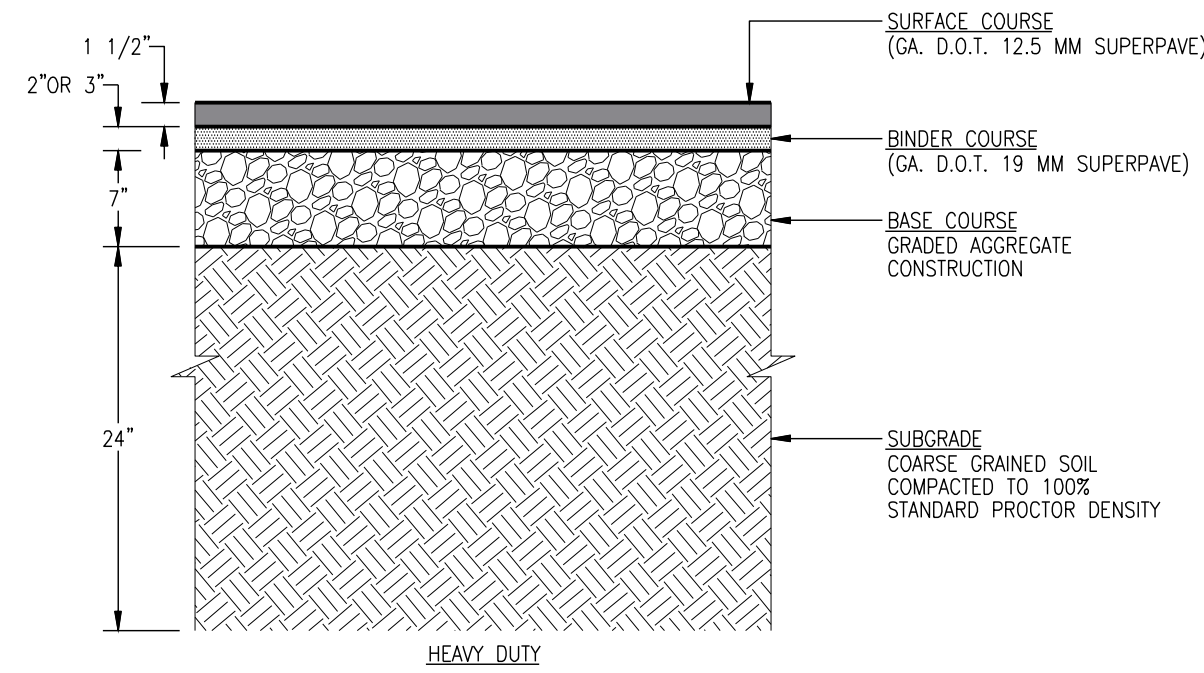
REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
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JOB NUMBER: 21-232.001
 DATE: 06/29/21
 DRAWN BY: CCS
 CHECKED BY: CCS
 SCALE: AS NOTED

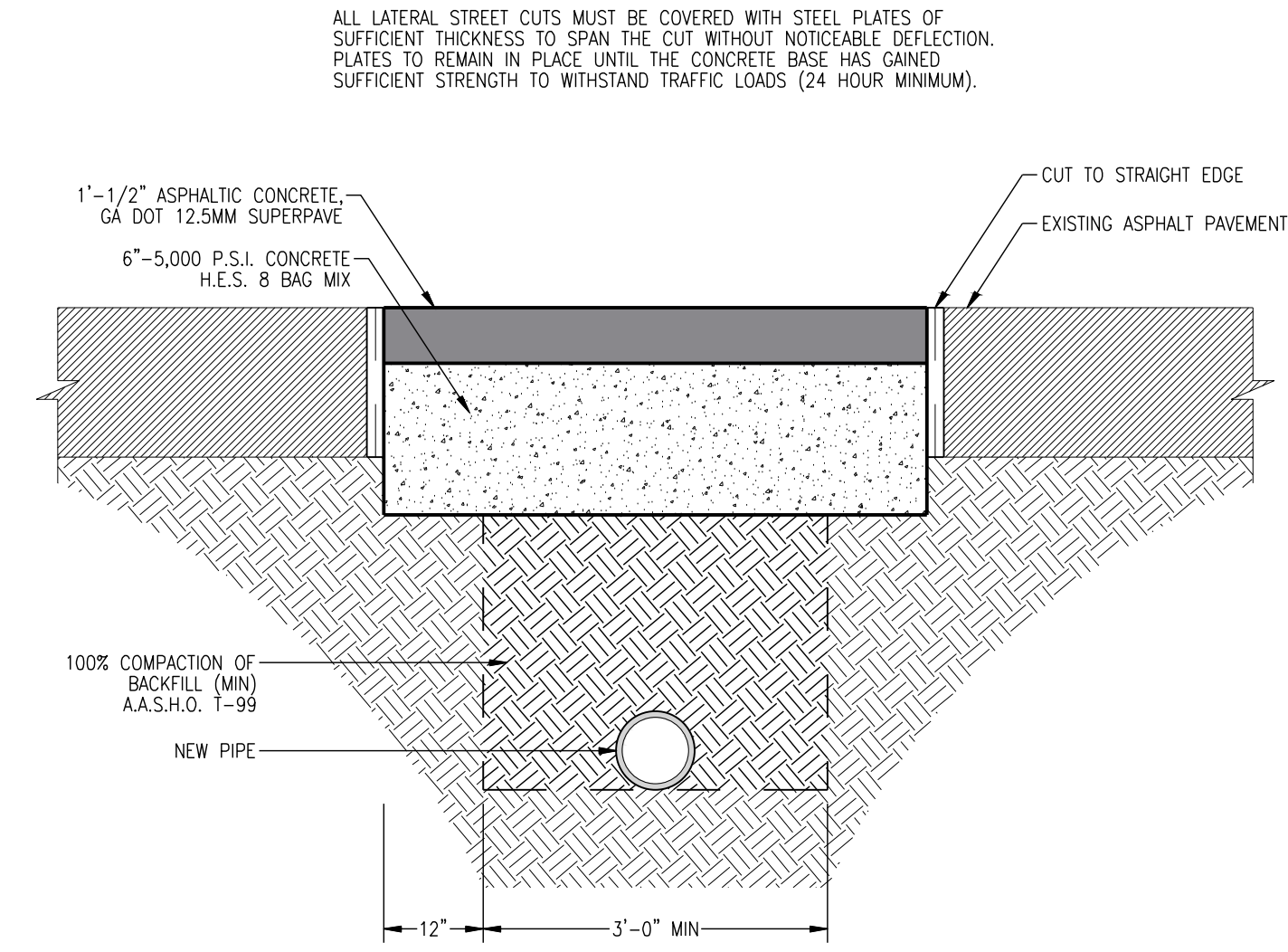
PROFILES

SHEET:
C5.0

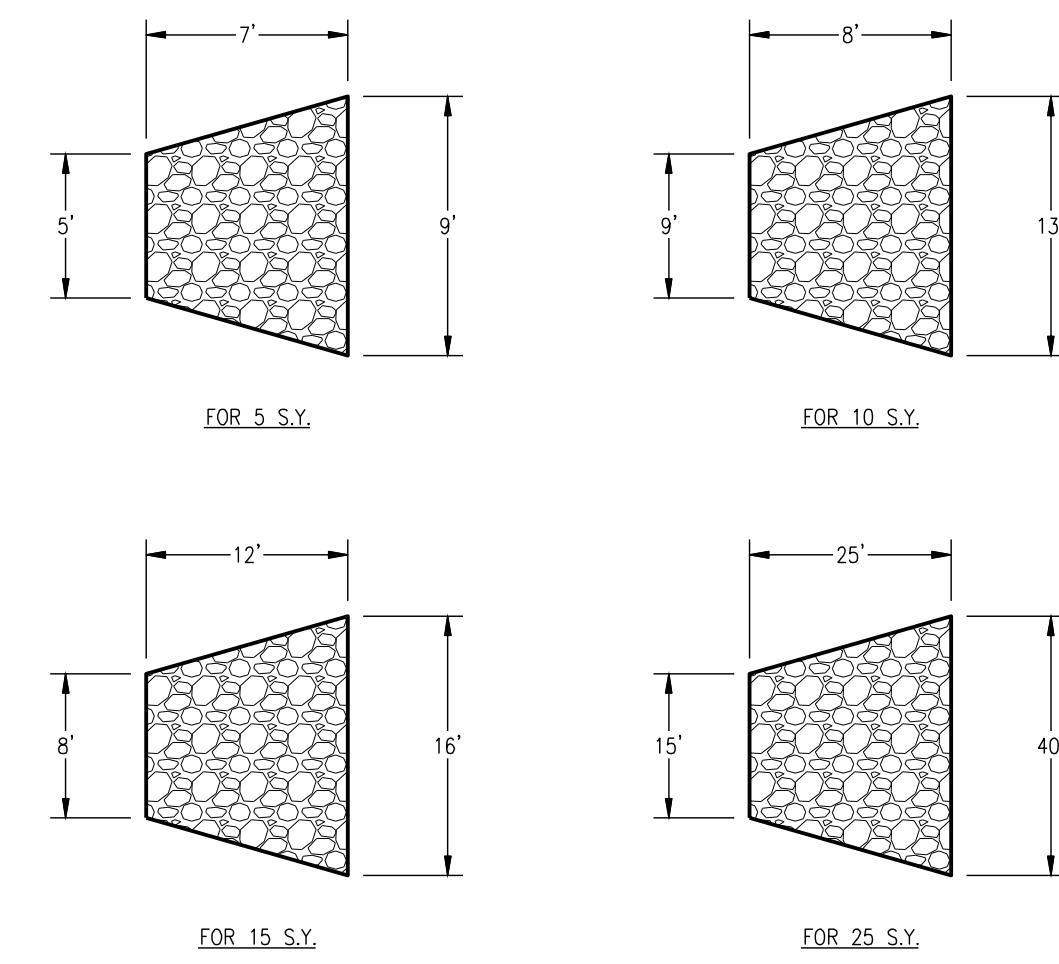


- NOTES:
- BITUMINOUS PRIME AND TACK COATS WILL BE APPLIED AS LISTED BELOW.
 - PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLON PER SQUARE YARD TO THE SURFACE OF ALL GRANITE BASE COURSES.
 - TACK COAT SHALL BE APPLIED AT AT RATE OF 0.05 GALLONS PER SQUARE YARD TO THE SURFACE OF THE BINDER COURSE BEFORE PLACEMENT OF SURFACE COURSE.
 - REFER TO PAVING PLAN FOR LOCATION OF STANDARD AND HEAVY DUTY PAVEMENTS.
 - BINDER COURSE IS TO BE 3" THICK WHEN PLACED INSIDE THE ALL PUBLIC ROWS, OTHERWISE USE 2".

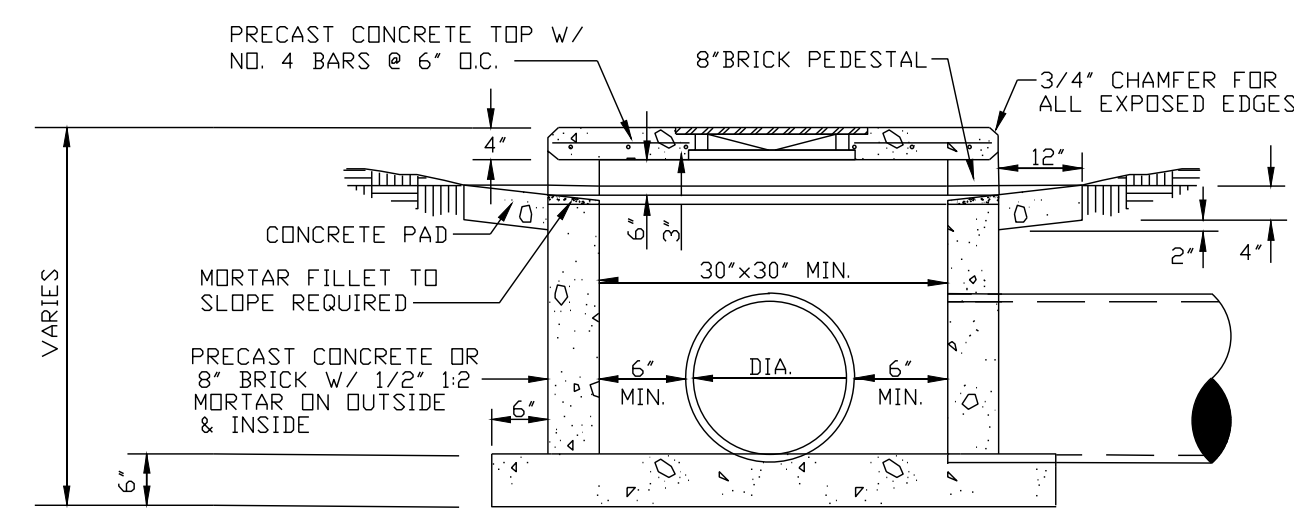
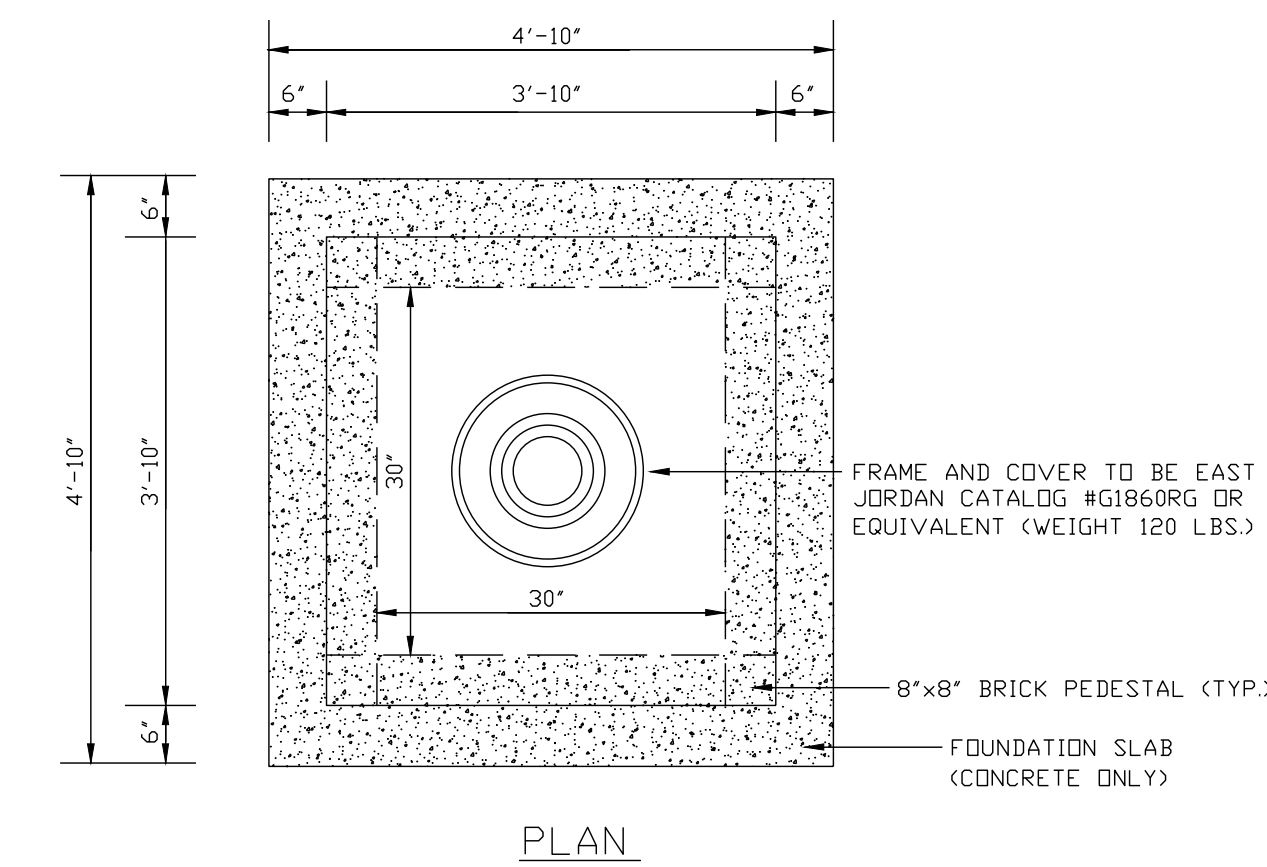
P-11 HEAVY DUTY PAVEMENT SECTION NOT TO SCALE



P-15 PAVEMENT REPLACEMENT NOT TO SCALE



D-1 RIP RAP DETAIL NOT TO SCALE



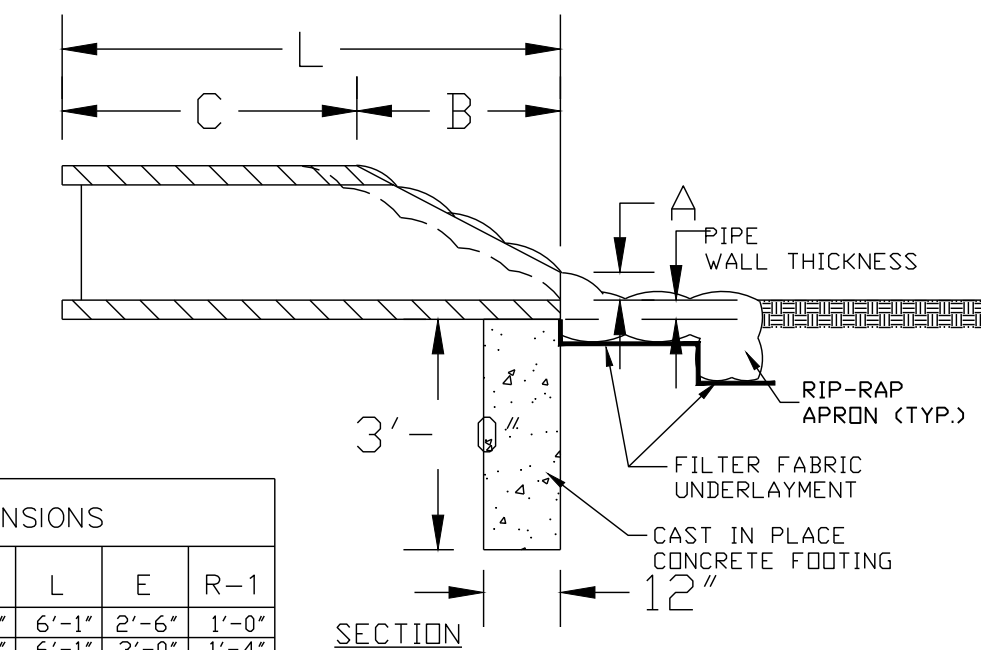
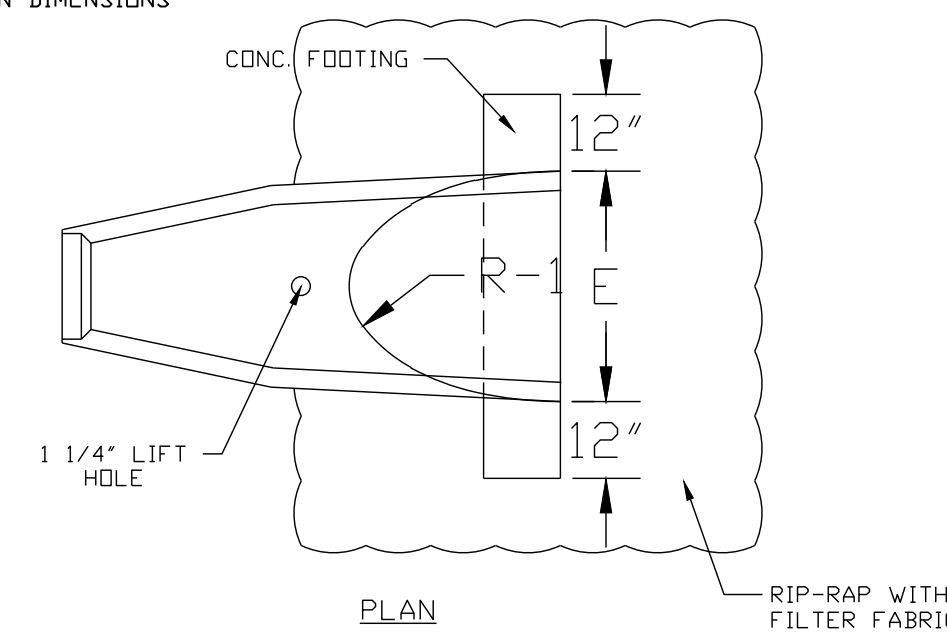
STANDARD CONSTRUCTION DETAILS

ROOF INLET

D-6

DATED FEBRUARY 2019

NOTE: REFER TO GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, STORM DRAIN OUTLET PROTECTION FOR REQUIRED RIP-RAP APRON DIMENSIONS



FLARE DIMENSIONS						
PIPE DIA.	A	B	C	L	E	R-1
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"	1'-0"
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"	1'-4"
24"	10"	3'-8"	2'-6"	6'-2"	4'-0"	1'-5"
30"	12"	4'-6"	1'-8"	6'-2"	5'-0"	1'-6"
36"	16"	5'-3"	2'-11"	8'-2"	6'-0"	2'-0"
42"	21"	5'-3"	2'-11"	8'-2"	6'-6"	2'-4"

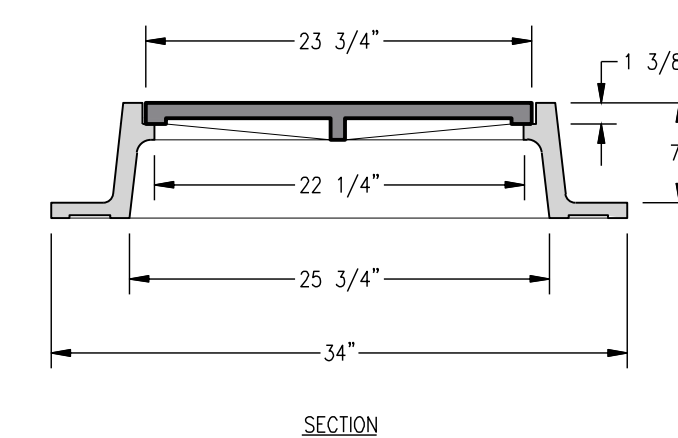
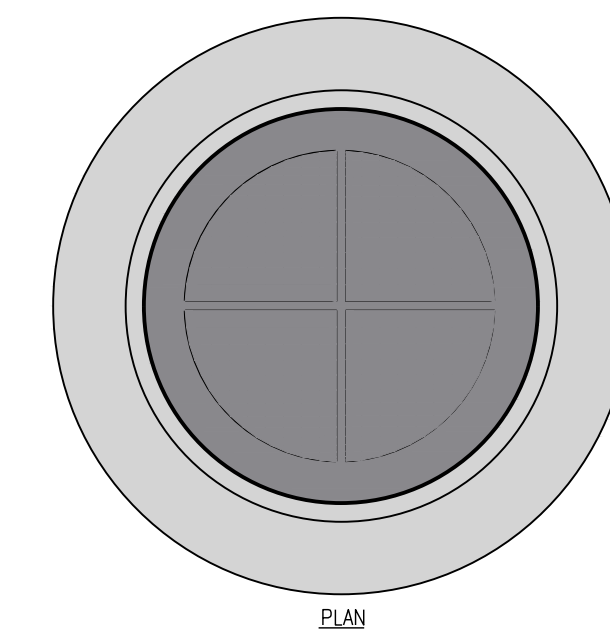
REINFORCEMENT CONFORMS TO ASTM A1064

STANDARD CONSTRUCTION DETAILS

FLARED END SECTION

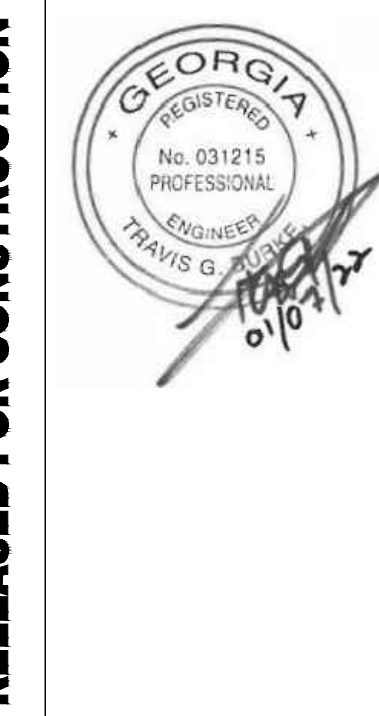
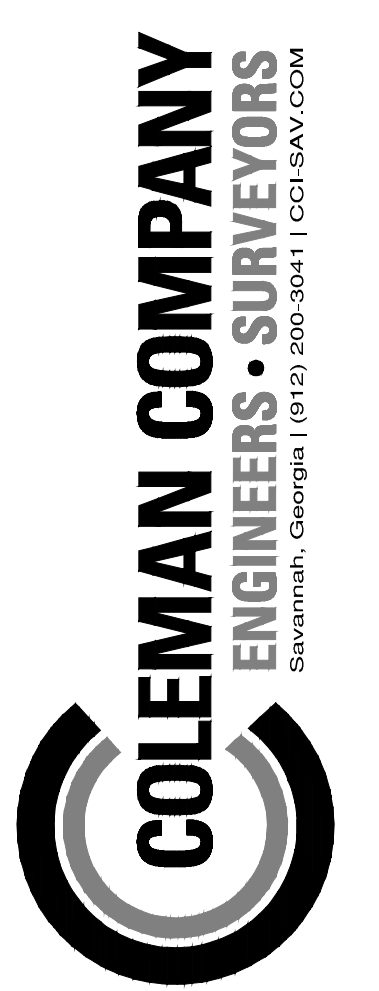
D-12

DATED MARCH 2020



NOTES:
MANHOLE RIM & COVER SIMILAR TO NEENAH FOUNDRY CO. R-1412-A4. TOTAL WEIGHT 310#. TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM".

D-15 STORM MANHOLE RING & COVER NOT TO SCALE



REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
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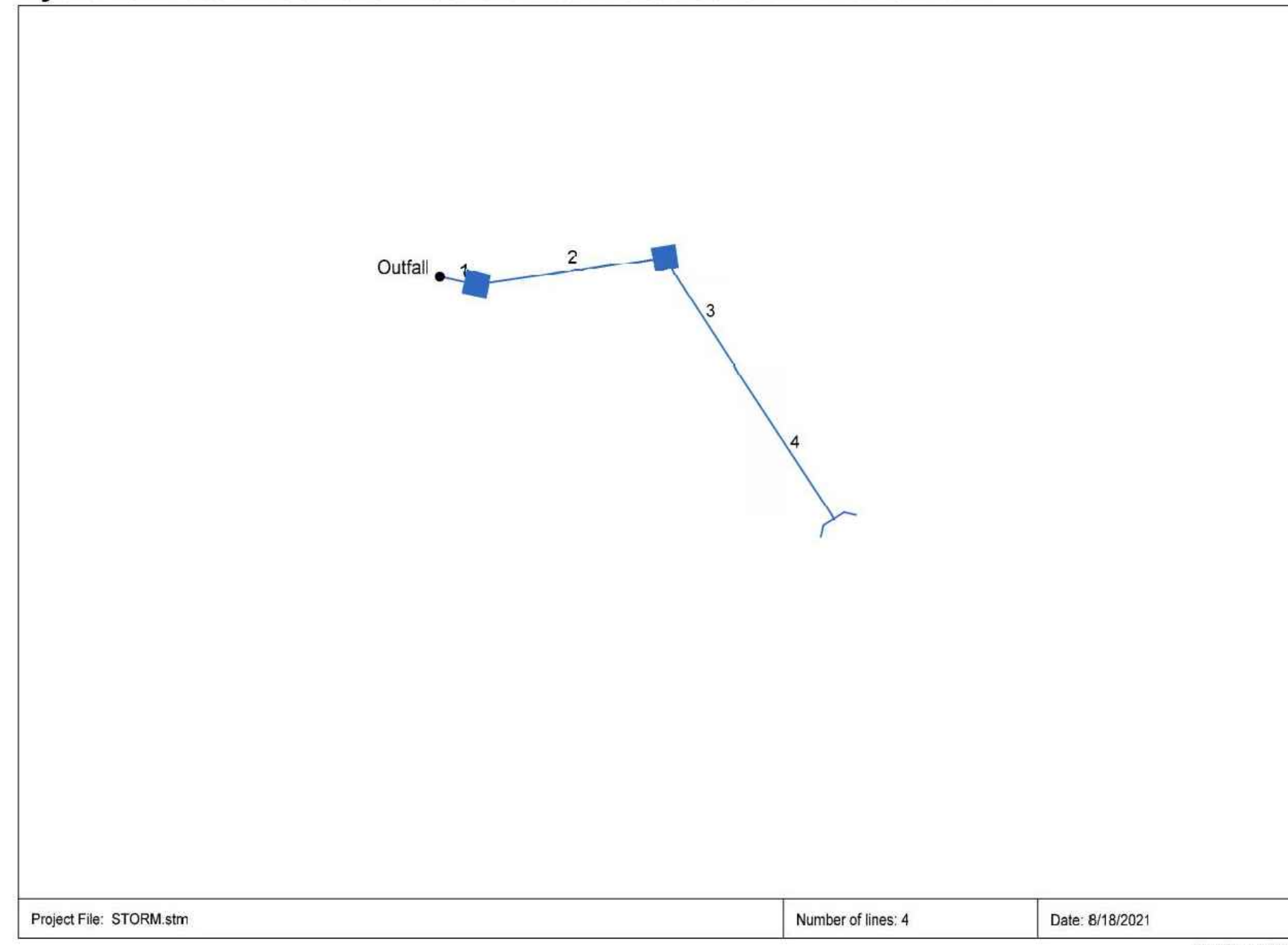
JOB NUMBER: 21-232.001
DATE: 06/29/21
DRAWN BY: CCS
CHECKED BY: CCS
SCALE: AS NOTED

CONSTRUCTION DETAILS

SHEET:
C6.0



Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



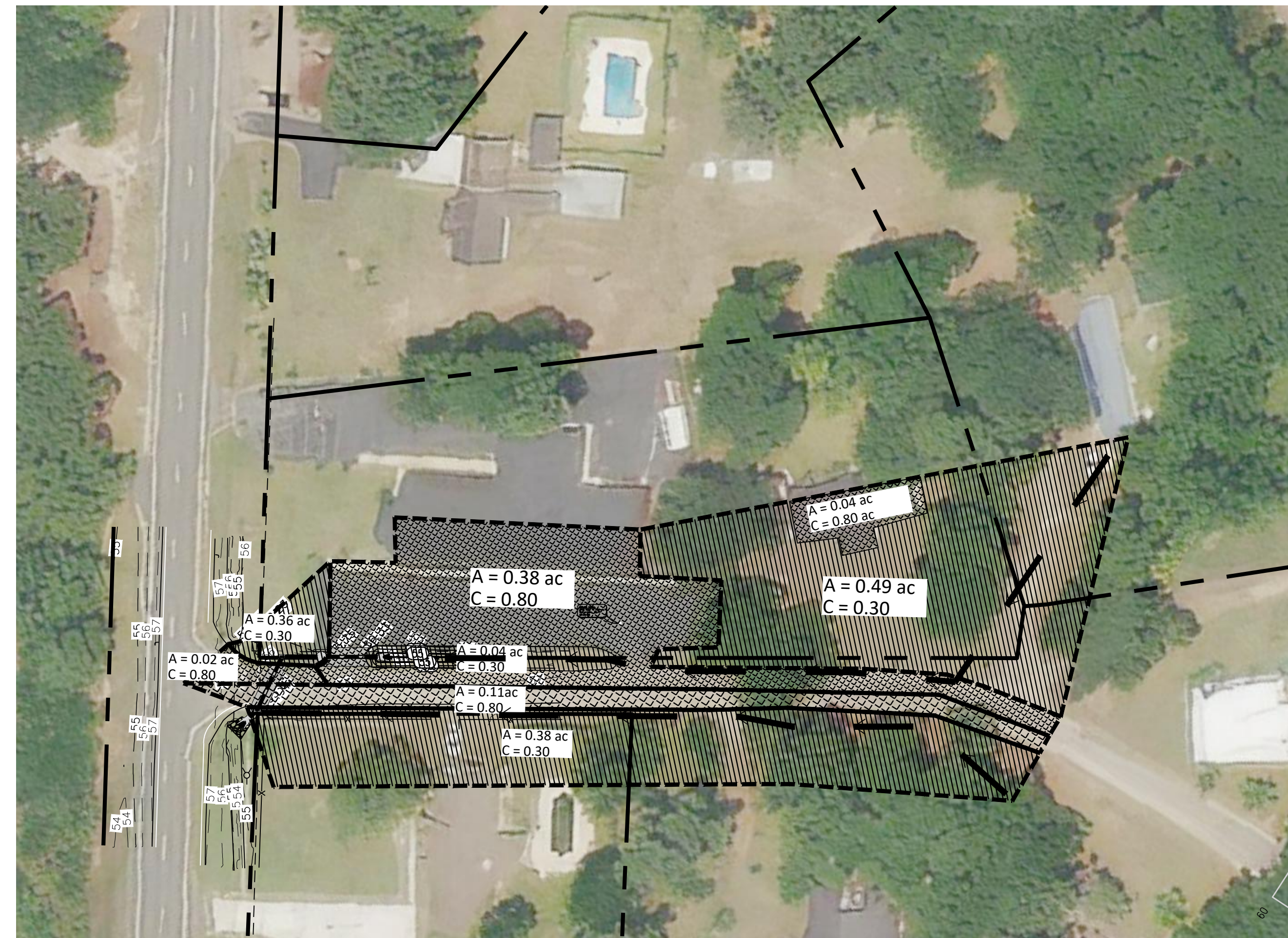
Project File: STORM.stm Number of lines: 4 Date: 8/18/2021 Storm Sewers v12.00

REPORT

Line No.	DnStm Ln No	Inlet ID	Line Size (in)	Line Length (ft)	Line Slope (%)	Line Type	n-val Pipe	Capac Full (cfs)	Vel Ave (ft/s)	HGL Up (ft)	HGL Dn (ft)	Drng Area (ac)	Runoff Coeff (C)	Tc (min)	Pipe Travel (min)	i Inlet (in/hr)	i Sys (in/hr)	Flow Rate (cfs)	Total Runoff (cfs)	Cover Dn (ft)	Cover Up (ft)
1	Outfall	RI-2	18	6.015	0.67	Cir	0.013	8.56	4.27	54.34	54.38	0.49	0.36	22.4	0.04	5.78	5.74	4.32	4.32	0.29	1.46
2	1	RI-1	14 x 23	31.000	0.29	EII	0.013	5.50	1.88	54.88	54.84	0.38	0.24	22.1	0.27	7.14	5.77	3.32	3.32	2.75	2.56
3	2	STMH-ALT	14 x 23	21.000	2.52	EII	0.013	16.21	1.60	55.02	55.01	0.00	0.00	21.9	0.22	0.00	5.79	2.81	2.81	2.56	1.63
4	3	FES-1	14 x 23	30.000	3.00	EII	0.013	17.68	1.69	55.08	55.07	0.95	0.51	21.6	0.31	5.82	5.82	2.82	2.82	1.63	0.62

Project File: STORM.stm Number of lines: 4 Date: 8/18/2021
 NOTES: Intensity = 162.43 / (inlet time + 27.70) ^ 0.85 -- Return period = 25 Yrs. ; ** Critical depth

25 YR STORM SEWER PIPE ANALYSIS



APPROXIMATE DRAINAGE AREA MAP

STORM SEWER DESIGN SUMMARY

THE STORM SEWER DRAINAGE BASINS WERE ESTIMATED BASED ON AVAILABLE LIDAR CONTOUR INFORMATION FROM EFFINGHAM COUNTY GIS. THE STORM SEWER WAS EVALUATE FOR THE 25 YEAR AND 100 YEAR STORM SEWER EVENTS. THE HYDRAULIC GRADE LINE REMAINS BELOW THE EXISTING GROUND SURFACE IN BOTH SCENARIOS.

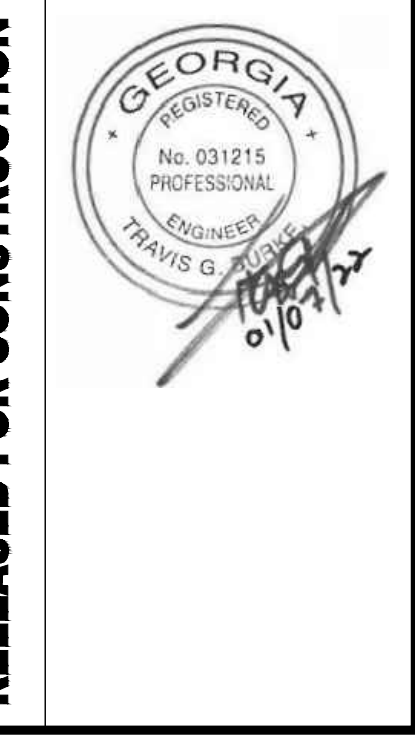
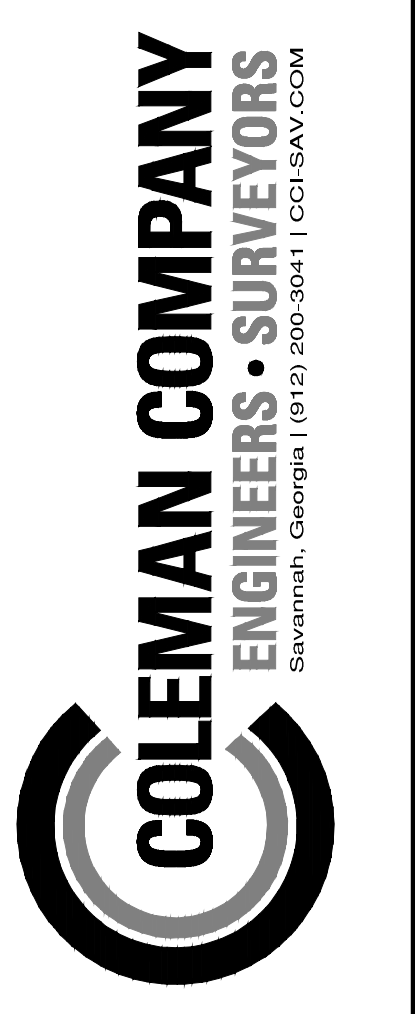
REPORT

Line No.	DnStm Ln No	Inlet ID	Line Size (in)	Line Length (ft)	Line Slope (%)	Line Type	n-val Pipe	Capac Full (cfs)	Vel Ave (ft/s)	HGL Up (ft)	HGL Dn (ft)	Drng Area (ac)	Runoff Coeff (C)	Tc (min)	Pipe Travel (min)	i Inlet (in/hr)	i Sys (in/hr)	Flow Rate (cfs)	Total Runoff (cfs)	Cover Dn (ft)	Cover Up (ft)
1	Outfall	RI-2	18	6.015	0.67	Cir	0.013	8.56	4.82	54.42	54.38	0.48	0.36	22.3	0.03	6.93	6.89	5.18	5.18	0.29	1.46
2	1	RI-1	14 x 23	31.000	0.29	EII	0.013	5.50	2.27	55.04	54.99	0.38	0.24	22.1	0.23	8.41	6.92	3.98	3.98	2.75	2.56
3	2	STMH-ALT	14 x 23	21.000	2.52	EII	0.013	16.21	1.91	55.25	55.23	0.00	0.00	21.9	0.18	0.00	6.94	3.36	3.36	2.56	1.63
4	3	FES-1	14 x 23	30.000	3.00	EII	0.013	17.68	1.92	55.35	55.32	0.95	0.51	21.6	0.26	6.97	6.97	3.37	3.37	1.63	0.62

Project File: STORM.stm Number of lines: 4 Date: 8/18/2021
 NOTES: Intensity = 220.31 / (inlet time + 32.00) ^ 0.87 -- Return period = 100 Yrs. ; ** Critical depth

100 YR STORM SEWER PIPE ANALYSIS

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RELEASED FOR CONSTRUCTION

REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
SHEAROUSE ROAD DRAINAGE REPAIR
 LOCATED IN EFFINGHAM COUNTY, GA
 PREPARED FOR EFFINGHAM COUNTY

JOB NUMBER: 21-232.001
 DATE: 06/29/21
 DRAWN BY: CCS
 CHECKED BY: CCS
 SCALE: AS NOTED

HYDROLOGY AND PIPE ANALYSIS

SHEET:
C7.0

