

GENERAL NOTES

- DO NOT SALVAGE ANY BEAMS ON BRIDGE 073-0022-0.
- THERE IS NO SUITABLE PLACE TO BURY EXISTING BRIDGE DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING BRIDGE DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND FURNISH THE BORROW PITS NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
- ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL, OR IN AN ENGINEERED FILL.
- A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT.
- THE RIGHT OF WAY SHALL BE CLEARED FROM RIGHT OF WAY TO RIGHT OF WAY TO ACCOMMODATE THE RELOCATION OF UTILITIES, WITH EXCEPTION OF THE STREAM BUFFERS
- STREAM CHANNEL EXCAVATION WILL BE PAID FOR AS PART OF GRADING COMPLETE.
- ALL EXISTING PIPES ARE TO BE REMOVED UNLESS OTHERWISE NOTED. PAYMENT SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
- THE COST FOR TEMPORARY SHORING SHALL BE INCLUDED IN THE OVERALL BID PRICE. SHORING SHOWN IN THE PLANS IS FOR ESTIMATION ONLY. IT IS UP TO THE CONTRACTOR TO DETERMINE THE ACTUAL QUANTITY NEEDED.
- ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED.



Know what's below.
Call before you dig.

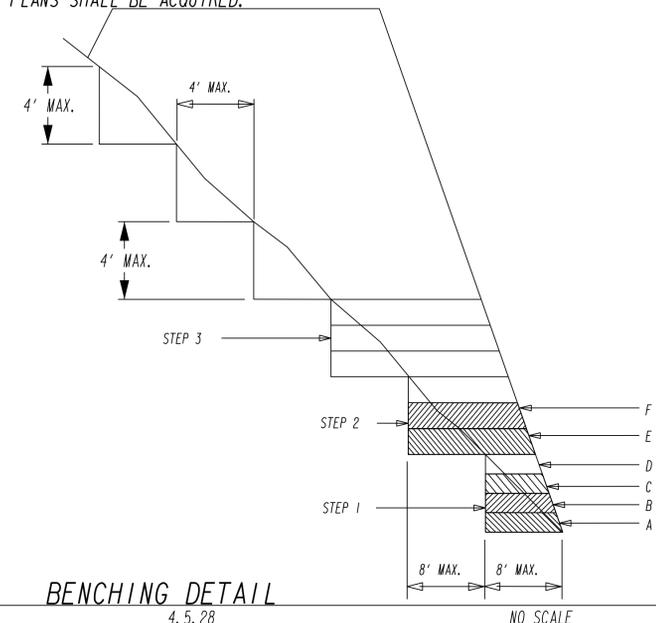
| NAME OF UTILITY | SERVICE |
|----------------------------|--------------|
| ATLANTA GAS LIGHT | GAS |
| AT&T | TELEPHONE |
| COLUMBIA COUNTY | WATER/SEWER |
| COMCAST | CABLE |
| GEORGIA POWER DISTRIBUTION | POWER |
| GEORGIA POWER TRANSMISSION | POWER |
| COLUMBIA COUNTY BROADBAND | FIBER OPTICS |

**PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION
REV. 03-22-10**

| TYPE OF PIPE INSTALLATION | CORRUGATED STEEL AASHTO M-36 | CORRU-GATED ALUMINUM AASHTO M-196 | | PLASTIC | | | | |
|--|---------------------------------|---|-------------------|-------------------------|--|--|---|---|
| | | ALUMINUM COATED (TYPE 2) CORR. STEEL | PLAIN ZINC COATED | PLAIN UNCOATED ALUMINUM | CORR. POLY-ETHYLENE LINED AASHTO M-252 | CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S" | POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304 | POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949 |
| LONGITUDINAL INTERSTATE AND TRAVEL BEARING | X | | | | | | | |
| LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING | X | X | | X | | X | X | X |
| STORM DRAINS | GRADE ≤ 10% | ADT < 250 | X | | X | | X | X |
| | | 250 < ADT < 1500 | X | X* | X | | X | X |
| | | ADT > 1500 | X | | | | X | X |
| | | ADT > 15000 | X | | | | | |
| GRADE > 10% | ADT < 250 | | X | | X | | X | X |
| | ADT > 250 | | | X | | X | X | X |
| SIDE DRAIN | X | X | | X | | X | X | X |
| PERMANENT SLOPE DRAIN | | X | X | X | | X | X | X |
| PERFORATED UNDERDRAIN | | X | X | X | X | X | | X |

* THIS TYPE PIPE CAN BE USED IF THE ADDITION OF TYPE "B" COATING (AASHTO M-190, HALF BITUMINOUS COATED WITH PAVED INVERT) IS UTILIZED

- NOTE:
- ALLOWABLE MATERIALS ARE INDICATED BY AN "X".
 - STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.
 - GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE pipe; AASHTO M-304, PVC pipe; ASTM F-949, PVC pipe).
 - THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.
 - PIPE USED UNDER MECHANICALLY STABILIZED EARTH (MSE) WALLS, WITH IN MSE WALL BACKFILL, OR WITHIN FIVE FEET OF AN MSE WALL FACE SHALL BE CLASS V CONCRETE PIPE.
 - PROJECT SPECIFIC pH AND RESISTIVITY VALUES ARE ENTERED INTO THE RESPECTIVE BOXES ABOVE TO DETERMINE ALLOWABLE PIPE MATERIALS.



BENCHING DETAIL

Revised 9/29/08 4.5.28 NO SCALE

- WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHING WHILE THE EMBANKMENT IS BEING MADE. (SEE DIAGRAM AT LEFT.)
- THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP IS TO (1) CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT THE WIDTH OF THE TYPICAL D-8 BULDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.
- THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

| REVISION DATES | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION |
|----------------|--|
| | OFFICE: District 2 Tennille |
| | GENERAL NOTES |
| | CSBRG-0007-00(167) COLUMBIA COUNTY |
| | DRAWING No. 04-001 |