P.I. NO. 0009156			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
150-9011	TRAFFIC CONTROL - WORKZONE LAW ENFORCEMENT(CONTRACTOR BIDS)	HR	3,000
999-2010	DESIGN COMPLETE	LS	1
999-2015	CONSTRUCTION COMPLETE	LS	1

P.I. NO. 0009157			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
150-9011	TRAFFIC CONTROL - WORKZONE LAW ENFORCEMENT(CONTRACTOR BIDS)	HR	2,000
999-2010	DESIGN COMPLETE	LS	1
999-2015	CONSTRUCTION COMPLETE	LS	1

DESIGN-BUILD PAY ITEMS AND QUANTITIES

PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION			CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
				ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE 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 AASHTO F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING		X							
STORM DRAIN	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING		X	X		X		X	X	X
STORM DRAIN	CROSS DRAIN, GRADE ≤ 10%	ADT < 250	X	X	X	X		X	X	X
STORM DRAIN	CROSS DRAIN, GRADE ≤ 10%	250 < ADT < 1500	X	X		X		X	X	X
STORM DRAIN	CROSS DRAIN, GRADE ≤ 10%	1500 < ADT < 15,000	X					X	X	X
STORM DRAIN	CROSS DRAIN, GRADE ≤ 10%	ADT > 15,000	X							
STORM DRAIN	CROSS DRAIN, GRADE > 10%	ADT < 250		X	X	X		X	X	X
STORM DRAIN	CROSS DRAIN, GRADE > 10%	ADT > 250				X		X	X	X
SIDE DRAIN			X	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 PRVED INSERT) IS UTILIZED.

NOTE:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN "X".
2. 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.
3. 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).
4. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.
5. PIPE USED UNDER MECHANICALLY STABILIZED EARTH (MSE) WALLS, WITHIN MSE WALL BACKFILL, OR WITHIN FIVE FEET OF AN MSE WALL FACE SHALL BE CLASS V CONCRETE.
6. PROJECT SPECIFIC PH AND RESISTIVITY VALUES ARE ENTERED INTO THE RESPECTIVE BOXES ABOVE TO DETERMINE ALLOWABLE PIPE MATERIALS

REV. 03-22-10

NOTES:
(i). SIZES AND MATERIAL TYPES ARE FROM FIELD VERIFICATION. WHEN NOT ATTAINABLE, THEY ARE NOTED PER RECORD PLANS (QL-B).
(ii). ALL THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE FACILITIES WITHIN THE VICINITY OF THIS PROJECT AT THE TIME OF THE SUE INVESTIGATION. UTILITIES FOUND WITHIN THE LOS AT THE TIME OF THE SUE INVESTIGATION ARE NOTED FOR EACH UTILITY OWNER LISTED AND ARE SHOWN ON THE PLANS HEREON.

UTILITY OWNER	SERVICE
AGL RESOURCES	GAS
AT&T / BELLSOUTH	TELEPHONE
CITY OF STOCKBRIDGE	SEWER, WATER
CITY OF COLLEGE PARK	SEWER, WATER
COLLEGE PARK POWER	ELECTRICAL DISTRIBUTION
CENTRAL GEORGIA EMC	ELECTRICAL DISTRIBUTION
CHARTER COMMUNICATION	CABLE TV, TELECOMMUNICATION
COMCAST CABLE	CABLE TV, TELECOMMUNICATION
CLAYTON COUNTY TRANSPORTATION	TRAFFIC, FIBER
CLAYTON COUNTY WATER AUTHORITY	SEWER, WATER
GEORGIA DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL
GEORGIA POWER COMPANY	ELECTRICAL DISTRIBUTION
GEORGIA POWER COMPANY	ELECTRICAL TRANSMISSION
GEORGIA TRANSMISSION COMPANY	ELECTRICAL TRANSMISSION
HENRY COUNTY WATER & SEWERAGE AUTHORITY (HCWS)	SEWER, WATER
NORFOLK SOUTHERN CORPORATION	SIGNAL COMMUNICATION
NORFOLK SOUTHERN CORPORATION T-CUBED	TELEPHONE, COMMUNICATION
SNAPPING SHOALS EMC	ELECTRICAL DISTRIBUTION

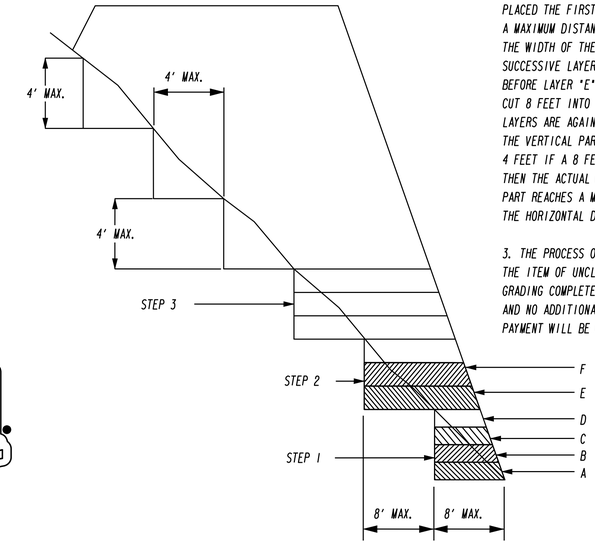
NOTES:

1. 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.
2. THERE IS NO SUITABLE PLACE TO BURY THE EXISTING BRIDGE/CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF THE EXISTING BRIDGE/CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

1. 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 BENCHED WHILE THE EMBANKMENT IS BEING MADE.
(SEE DIAGRAM AT LEFT.)

2. 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 (ABOUT⅔ 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.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.



BENCHING DETAIL

Revised 9/29/08 4.5.28 NO SCALE

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COSTING PLANS

PARSONS
3577 PARKWAY LANE, BUILDING V
SUITE 100, NORCROSS, GA 30092

COSTING PLANS
FOR DESIGN-BUILD

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GENERAL NOTES
I-75 MANAGED LANES
DRAWING No. 4-001

3/1/2007 GPLN