

**PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION**

TYPE OF PIPE INSTALLATION	C O N C R E T E	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 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	
STORM DRAINS GRADE ≤ 10%	ADT < 250	X			X	X	X	
	250 < ADT < 1500	X			X	X	X	
	1500 < ADT < 15,000	X			X	X	X	
	ADT > 15,000	X						
GRADE > 10%	ADT < 250				X	X	X	
	ADT > 250				X	X	X	
SIDE DRAIN	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.

NOTES:

- 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.

1. A N.O.I. WILL BE REQUIRED FOR THIS PROJECT.



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2. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND ASPHALT FOR GRADED AGGREGATE WHERE REQUIRED. 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. DRIVES SHALL BE CONSTRUCTED USING:

ASPHALT DRIVES:	RESIDENTIAL:	165 LBS/YD2 ASPHALTIC CONCRETE 12.5 mm SUPERPAVE 6" GRADED AGGREGATE
	COMMERCIAL:	165 LBS/YD2 ASPHALTIC CONCRETE 12.5 mm SUPERPAVE 220 LBS/YD2 ASPHALTIC CONCRETE 19.0 mm SUPERPAVE 6" GRADED AGGREGATE
CONCRETE DRIVES:	RESIDENTIAL:	6" CONCRETE, 4" GRADED AGGREGATE
	COMMERCIAL:	8" CONCRETE, 6" GRADED AGGREGATE

3.

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
ATLANTA GAS LIGHT NETWORKS	FIBER	(404)584-4268	24.01-24.41
ATLANTA GAS LIGHT COMPANY	NATURAL GAS	(404)584-4318	24.01-24.41
AT&T	TELEPHONE	(770)514-1480	24.01-24.41
COMCAST OF GEORGIA, INC.	CABLE TV	(770)559-2215	24.01-24.41
GEORGIA POWER	ELECTRIC	(770)716-9500	24.01-24.41
DEKALB CO. TRAFFIC ENGINEERING	TRAFFIC SIGNALS	(770)492-5206	24.01-24.41
DEKALB WATER AND SEWER	WATER & SEWER	(770) 621-7256	24.01-24.41

- THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT IS NOT LIMITED TO REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT MAY HAVE BEEN REMOVED OR DAMAGED, CLEANING OUT EXISTING DRAINAGE STRUCTURES, OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE.
- ALL EXISTING MANHOLES, VALVES, SURVEY POINTS/BENCH MARK ETC. LOCATED IN AREA WERE THE SIDEWALK IS TO BE CONSTRUCTED SHALL BE ADJUSTED TO GRADE OR RELOCATED. THE TOPS OF THESE OBJECTS MUST REMAIN ACCESSIBLE AND FLUSH WITH THE TOP OF THE SIDEWALK. REPLACE NON-SLIP-RESISTANT LIDS AND COVERS WITH SLIP-RESISTANT LIDS AND COVERS OF EQUAL WEIGHT AND DIMENSIONS. PRICE TO BE INCLUDED IN PRICE BID FOR CONCRETE SIDEWALK, 4 IN.
- ALL EXISTING CONCRETE TO REMAIN MUST BE PRESSURE WASHED AND ALL WEEDS ALONG EXISTING CURB LINE ARE TO BE REMOVED. CONTRACTOR TO BE PAID UNDER PAY ITEM GRADING COMPLETE.
- SOIL CONTAMINATION EXCEEDING EPD REGULATORY LIMITS WAS ENCOUNTERED AT PARCELS 28 & 45. THE CONTRACTOR SHALL IMPLEMENT THE BEST POSSIBLE ENGINEERING AND MANAGEMENT CONTROLS AT THESE PARCELS TO ENSURE ADEQUATE PROTECTION OF EMPLOYEE SAFETY IN ACCORDANCE WITH GEORGIA'S RULES FOR HAZARDOUS WASTE MANAGEMENT. THE CONTRACTOR SHALL ALSO ENSURE THAT WORKERS DO NOT COME INTO PROLONGED AND UNNECESSARY CONTACT WITH CONTAMINATED SOILS OR GROUNDWATER. PRICE TO BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.
- ANY SOIL DISTURBED DURING CONSTRUCTION ACTIVITIES AT PARCEL NUMBERS 28, 44, 45, 60, 86, 125 & 128 SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH PREVAILING RULES AND REGULATIONS OF EPD, LAND PROTECTION BRANCH, SOLID WASTE MANAGEMENT PROGRAM RULES AND REGULATIONS. PRICE TO BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.
- IF IT IS DETERMINED THAT ANY PORTION OF THE UST SYSTEMS AT PARCEL NUMBERS 8, 15, 28, 44, 45, 58, 60, 83, 86, 87, 98, 107, 110, 122, 125 & 128 WILL BE IMPACTED BY CONSTRUCTION ACTIVITIES, THE UST REMOVALS SHALL BE HANDLED IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 217 - REMOVAL OF UNDERGROUND STORAGE TANKS.
- RETAINING WALLS
SHORING MAY BE REQUIRED FOR CONSTRUCTION OF RETAINING WALLS. COST OF SHORING TO BE INCLUDED IN OVERALL BID PRICE FOR RETAINING WALL ITEMS.
SUPPORT OF EXISTING UTILITIES WILL BE REQUIRED DURING WALL CONSTRUCTION. CONTRACTOR TO COORDINATE SHORING, EXCAVATION AND BACKFILLING OF WALLS WITH UTILITIES OWNERS.
REMOVAL OF ANY EXISTING RETAINING WALLS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT WILL NOT BE PAID FOR SEPARATELY. ALL REMOVAL COST WILL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.
- NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. FOR CUT-THRU ISLANDS AND EXISTING RAMPS, THE COST OF DETECTABLE WARNINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE.
- OVERHEAD LINE TRANSFERS ARE TO OCCUR IN SEQUENCE AS LOCATED ON THE POLES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY ADJUSTMENT SCHEDULES AND SHALL COORDINATE WORK ACCORDINGLY.



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: DISTRICT 7 GENERAL NOTES	
6-29-09		MEMORIAL DRIVE STREETScape PH 3 FROM WOODCROFT DR TO GOLDSMITH RD	
8-13-09			
		DRAWING No. 4-01	