

# SIGNING AND MARKING GENERAL NOTES

- ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
- SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE DISTRICT TRAFFIC OPERATION ENGINEER.
- ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF SEVEN (7) FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
- HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
  - HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE SIX (6) FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
- SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER FORTY-EIGHT (48) INCHES IN WIDTH SHALL BE MOUNTED ON TWO (2) POSTS WITH TWO (2) EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 1/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
- EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
- SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY - TYPICAL FRAMING DETAILS.
- A 1/8 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
- WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 2 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
- FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
- CONTRACTOR WILL, AS REQUIRED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.
- TYPE III (ENCAPSULATED LENS) REFLECTIVE SHEETING, COMMONLY REFERRED TO AS HIGH INTENSITY, SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- TYPE IX (WIDE ANGLE PRISMATIC, VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1, R5-1A).
- TYPE IX (WIDE ANGLE PRISMATIC, VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE VI (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
- TYPE IX (WIDE ANGLE PRISMATIC, VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

# GENERAL NOTES

- CR 252 SHALL BE CLOSED DURING CONSTRUCTION. IRWIN COUNTY WILL BE RESPONSIBLE FOR THE PROJECT DETOUR. CALL THE COUNTY ROAD SUPERINTENDENT AT (229)468-5317. THE CONTRACTOR SHALL NOTIFY THE COUNTY ROAD SUPERINTENDENT IN WRITING WITHIN 14 DAYS IN ADVANCE OF CLOSING THE ROAD. A COPY SHALL BE PROVIDED TO THE ENGINEER.
- THIS PROJECT REQUIRES A N.O.I.
- THERE IS NO SUITABLE PLACE TO BURY EXISTING BRIDGE/CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING BRIDGE/CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.
- ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. 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. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
- ANY TEMPORARY SHORING WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
- THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION RELATED ACTIVITIES OTHER THAN THOSE SHOWN ON THE APPROVED PLANS, INCLUDING THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, AND TRAILER PLACEMENT OCCUR WITHIN THOSE AREAS DESIGNATED AS ESAs.
- ALL PERMANENT EASEMENTS PURCHASED WITH RIGHT TO PLACE UTILITIES.

UTILITY OWNER	SERVICE
WINDSTREAM	TELEPHONE
IRWIN EMC	ELECTRICAL

UTILITY LOCATION WAS PERFORMED BY UTILITY OWNER MARKUPS.



TYPE OF PIPE INSTALLATION	CONCRETE	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 SMOOTH LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-504	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	X	X
		250 < ADT < 1,500	X			X	X	X
		1,500 < ADT < 15,000	X				X	X
		ADT > 15,000	X					
DRAINAGE	GRADE > 10%	ADT < 250		X	X	X	X	X
		ADT > 250				X	X	X
SIDE DRAIN		X	X	X	X	X	X	
PERMANENT SLOPE DRAIN			X	X	X	X	X	
PERFORATED UNDERDRAIN			X	X	X	X	X	

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.
- 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 Pipe.
- Project specific pH and Resistivity values are entered into the respective boxes above to determine allowable pipe materials.

Rev. 03-22-10

Cross Drain and Storm Drain Pipe  
Unless noted otherwise noted in the plans. The pipe sizes specified for cross drain pipe are based on a Manning's "N" Design Value of 0.012. Alternate pipe materials with Manning's N Design Values less than or equal to 0.012 may be used as noted in the Allowable Pipe Materials Chart.

The Contractor may, at his own expense, submit other designs considering Alternate Pipe Materials with Manning's N Design Values greater than 0.012 to the Project Engineer for approval. The submitted designs shall be stamped and sealed by a Qualified Professional Engineer.

Side Drain Pipe and Under Drain Pipe  
Alternate pipe materials may be used as noted in the Allowable Pipe Materials Chart. Side drain pipe is normally designed using a Manning's N Value for corrugated metal pipe. Submission of alternate designs with lesser friction coefficients is not required.

REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: TIFTON OFFICE/DISTRICT 4 GENERAL NOTES CR 252/FRANK RD
3-25-14	
	DRAWING No. 4-001

**GEORGIA**  
DEPARTMENT  
OF  
TRANSPORTATION

USE ON CONSTRUCTION