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NOTE: PLAN & ELEVATION VIEWS ARE SHOWN AS TYPICAL AND MAY VARY PER THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 648.

DESIGN SPEED (mph)	TYPICAL SYSTEM LENGTHS (FT.)		
	STANDARD LENGTH (WITH STEEL BACK-UP)	MODIFIED FOR CONG. BACK-UP	WITH 10 FT. CONG. TRANS.
TO 35	10	11.5	20
40-45	13	14.5	23
50	16	17.5	26
55	19	20.5	29
60	22	23.5	32
65	26	27.5	35
70	31	32.5	41
75	34	35.5	44

STANDARD STEEL BACK-UP SHALL BE USED UNLESS SPECIFIED OTHERWISE. CONCRETE BACK-UP MAY BE USED AS AN ALTERNATE AT LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

THE LENGTHS IN ABOVE TABLE ARE COMMON OVERALL APPROXIMATE LENGTHS. VARIATIONS MAY BE SUBMITTED FOR APPROVAL. SEE SUB-SECTION 648.3.05.

TRAFFIC FLOW DESIGNATIONS (TYP.)
SEE SUB-SECTION 648.3.04

UNI-DIRECTIONAL (U)
TRAFFIC IN SAME DIRECTION ON BOTH SIDES

BI-DIRECTIONAL
ON BOTH SIDES OF UNIT
ON ONE SIDE OF UNIT
ON ONE SIDE OF UNIT (MEDIAN)
ON ONE SIDE OF UNIT (2-LANE, 2-WAY)

SINGLE DIRECTION (S)
SINGLE SIDE ONLY EXPOSED TO TRAFFIC

GENERAL NOTES

- SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERE TO, SEE SECTION 648.
- ATTENUATORS WILL BE OF TYPE WHICH HAS BEEN APPROVED BY THE GA. D.O.T. AND FEDERAL HIGHWAY ADMINISTRATION AS MEETING AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) REQUIREMENTS AND HAS BEEN CLASSIFIED AS "ACCEPTED" BY THE DOT OFFICE OF MATERIALS AND RESEARCH AND LISTED ON OPL 64.
- THE WIDTH OF THE SYSTEM SHALL BE 2'-6" UNLESS SPECIFIED OTHERWISE. UNITS HAVING A REAR WIDTH LESS THAN THE BASE OF THE SHIELDED OBJECT SHALL REQUIRE A CONCRETE TRANSITION, EXCEPT WHERE THE UNIT IS LOCATED ON THE OUTSIDE SHOULDER.
- WHERE OBJECT BEING SHIELDED IS WIDER THAN THE DESIGNATED ATTENUATOR WIDTH, A TRANSITION WILL BE REQUIRED EITHER (a) BY PROVIDING A SPECIAL DESIGN CONCRETE TAPERED TRANSITION (SEE SEPARATE DETAILS) AS PART OF THE BACK-UP SYSTEM OR (b) BY MATCHING ATTENUATOR REAR WIDTH TO OBJECT SIZE UTILIZING A TAPERED ATTENUATOR MODEL WHICH INCREASES IN WIDTH FROM NOSE TO REAR (PER MANUFACTURER'S TAPERED MODEL NO.) WITH A STANDARD BACK-UP UNIT.
- CROSS SLOPE OF PAD SHALL NOT EXCEED 2% AND NOT VARY MORE THAN 2% FROM FRONT TO BACK. THE ATTENUATOR SYSTEM SHALL BE LOCATED ON A RELATIVE FLAT AREA CLOSE TO OR AT ROADWAY LEVEL.
- ALL ATTENUATOR UNITS SHALL BE CORRECTLY ANCHORED TO REINFORCED CONCRETE PAD OR OTHER APPROVED PAVED SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
- THE AREA IMMEDIATELY BACK OF THE ATTENUATOR SHALL BE CLEAR OF OBSTRUCTIONS THAT WOULD PREVENT THE REAR PANELS FROM SLIDING BACKWARD UPON IMPACT FOR A DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
- PAYMENT FOR IMPACT ATTENUATOR OF THE TYPE SPECIFIED SHALL INCLUDE THE ENTIRE UNIT WITH ALL ACCESSORIES, THE CONCRETE PAD, THE BACKUP SYSTEM, ANY TRANSITION REQUIRED, THE NOSE STRIPING PANEL WITH ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE SYSTEM.
- BEFORE WORK BEGINS, THE CONTRACTOR SHALL OBTAIN THE MANUFACTURER'S INSTALLATION MANUAL, ASSEMBLY DETAILS, ANCHORING REQUIREMENTS, REINFORCING STEEL FOR CONCRETE RECOMMENDATIONS, AND ALL OTHER GUIDES AND INSTRUCTIONS NECESSARY FOR PROPER INSTALLATION AND PROVIDE COPIES OF SAME TO THE ENGINEER. THE CONTRACTOR SHALL INFORM THE MANUFACTURER OF ATTENUATOR OF SITE CONDITIONS INCLUDING FURNISHING ANY PLAN SHEETS OR SKETCHES AS NEEDED TO SHOW TRAFFIC FLOW DIRECTIONS, LOCATION AND DESIGN OF SHIELDED OBJECT, AND AVAILABLE AREA SIZE FOR LOCATION OF UNIT.
- TO PREVENT VEHICLE SHAGBORN AN OFFSET AND/OR A TRANSITION DEFLECTION PANEL OR A CONCRETE TRANSITION SECTION IS REQUIRED AT ATTENUATOR REAR ON EACH SIDE SUBJECT TO TRAFFIC. SEE MANUFACTURER'S REQUIREMENTS.

DETAIL OF ATTENUATOR NOSE TREATMENT

FRONT VIEW

DETAIL "A"
*APPROACH TRAFFIC ON LT. SIDE ONLY

DETAIL "B"
*APPROACH TRAFFIC ON BOTH SIDES

*STRIPES SHALL SLOPE DOWNWARD AT AN ANGLE OF 45° TOWARD THE SIDE ON WHICH TRAFFIC IS TO PASS, LEFT SHOWN, RIGHT NOT SHOWN, BUT MAY BE SPECIFIED. THE 6" YELLOW STRIPES SHALL BE REFLECTIVE SHEETING, TYPE IX. THE 6" BLACK STRIPES SHALL BE FLAT (NON-GLOSS) PAINT OR ANY OTHER APPROVED APPLICATION. COLORS SHALL BE ACCORDING TO THE MUTCD. STRIPING SHALL BE APPLIED TO A 0.04" THICK ALUMINUM PLATE. OBJECT MARKER SHALL BE SECURED TO NOSE FRONT WITH THREE GALVANIZED 5/8" DIA. BOLTS WITH NUTS AND WASHERS AS DIRECTED BY THE ENGINEER.

REV.	DATE	REVISION
1	7-2-11	REV. TITLE BLOCK AND GENERAL NOTE (AND 2)
2	4-10-06	REV. REFLECTIVE STRIPING

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
IMPACT ATTENUATOR UNITS
TYPE P - - - } SUB-SEC.
TYPE S - - - } 648.3.04

NO SCALE REV. & REDR. MAR., 2001

NUMBER G-II

Order Plans @

REVISION DATES		CONSTRUCTION DETAILS	
CHECKED:	DATE:	SR 18 BRIDGE REPLACEMENT @ LONG CAME CREEK TROUP COUNTY	
BACKCHECKED:	DATE:	DRAWING No.	
CORRECTED:	DATE:	40-0005	
VERIFIED:	DATE:		