



RIP-RAP ENDWALL W/ 12"x12" CONCRETE CAP

GENERAL NOTES:

- 1. MINIMUM 12" FILL OVER TOP OF CULVERT.
- 2. EDGES MUST BE STABILIZED WITH A MINIMUM OF ONE ROW OF SOD FOR ALL END TREATMENTS.
- 3. FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE USED AS A GUIDELINE FOR ALL END TREATMENTS, REFER TO INDICIES 261, 266, & 272.
- 4. RIP-RAP CONSTRUCTION TO FOLLOW FDOT STANDARD INDEX NO. 258.
- 5. CULVERTS MUST BE INSTALLED AT START OF CONSTRUCTION.
- 6. MINIMUM CULVERT SIZE IS 15".
- 7. MITERED END SECTIONS REQUIRED WHEN SPEED LIMIT IS GREATER THAN 30 MPH.
- 8. GRATES REQUIRED FOR CULVERTS LARGER THAN 24".
- 9. SIDE SLOPES SHALL BE 2:1 (OR LESS) FOR 15" & 18" CULVERTS, AND 4:1 FOR CULVERTS 24" AND GREATER.
- 10. ALL REINFORCEMENT TO HAVE 2" MIN. COVER ON ALL SIDES.
- 11. UNIT COST OF CONCRETE CAP AND REINFORCING STEEL TO BE INCLUDED IN COST OF SAND CEMENT RIP—RAP ENDWALL.

ST JOHNS COUNTY	REVISION	DECICN DETAIL	EFFECTIVE DATE:
PUBLIC WORKS DEPARTMENT	10/09	DESIGN DETAIL	DETAIL NO. 400
ENGINEERING DIVISION			APPROVED:
2740 Industry Center Road ST AUGUSTINE, FLORIDA 32084		RESIDENTIAL HEADWALLS	H.P. TOM KINS IR P.F.
ST AUGUSTINE, FLORIDA 32084 Phone (904) 209-0110 • Fax. (904) 209-0140			H.P. TOMI KINS, JR., P.E. COUNTY ENGINEER
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