



PILE SUPPORTED PIER
SEE DWG S-15 & S-16
AND NOTE 3

DIP CARRIER PIPE WITH
RESTRAINED JOINT FITTINGS
BETWEEN MANHOLES
(SEE NOTE 4)

CLASS 1
RIP-RAP SLOPE
PROTECTION, TYP

EXTEND RIP-RAP 2'-0"
PAST WATER LINE, TYP

STEEL CASING PIPE,
SEE DWG S-12

EDGE OF WATER
SEE DWG S-18
FOR SUPPORTS
PLACED IN STREAM

MANHOLE, TYP

CONCRETE PIER
SEE DWG U-14
AND NOTE 3

8'-0"
TYP

18"
TYP

8'-0"
TYP

18"
TYP

NOTES:

1. RIP RAP FOR SLOPE PROTECTION SHALL BE CLASS 1 RIP RAP IN ACCORDANCE WITH SECTION 868 OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES".
2. RIP RAP SHALL BE PLACED IN ACCORDANCE WITH DRAWING 868.01 OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S "ROADWAY STANDARD DRAWINGS".
3. SUPPORT TYPE FOR PIERS SHALL BE DETERMINED BY ENGINEER BASED ON SUBGRADE CONDITIONS AT SITE. SEE DRAWING S-14 FOR SUBGRADE PARAMETERS FOR EACH TYPE OF FOUNDATION.
4. WHERE DUCTILE IRON PIPE IS USED FOR CARRIER PIPE, DUCTILE IRON CARRIER PIPE SHALL BE INSTALLED UTILIZING 2 PIPE ALIGNMENT GUIDES PER JOINT ONE FOURTH OF THE PIPE JOINT LENGTH IN FROM BOTH THE BELL AND SPIGOT ENDS.

CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
AERIAL PIPE CROSSING TYPICAL PLAN			
DWG. NO. S-11	REVISIONS	DATE	REVISIONS
	A.B.B.	4-16-04	
	D.F.L.	6/16/08	