

| DWG | SHEET TITLE | SPECIAL REQUIREMENTS AND NOTES |
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| 840.31 | CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE | NOTE 1; OPTIONAL MANHOLE IS REQUIRED |
| 840.32 | BRICK JUNCTION BOX 12" THRU 66" PIPE | NOTE 1; OPTIONAL MANHOLE IS REQUIRED |
| 840.34 | TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER | NOTE 1; OPTIONAL MANHOLE IS REQUIRED; AS MEASURED FROM BOTTOM OF TOP SLAB -- FOR JUNCTION BOX HEIGHT 0'-4'8" USE 8" THICK WALL, FROM 4'8" HEIGHT TO 10' HEIGHT, USE 12" THICK WALL. IF PROPOSED STRUCTURE EXCEEDS 12'-0" HEIGHT A SPECIAL DESIGN WILL BE REQUIRED |
| 840.35 | TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES | |
| 840.36 | TRAFFIC BEARING DROP INLET FOR STEEL (840.37) DOUBLE FRAME AND GRATES | NOT FOR USE IN PEDESTRIAN AREAS |
| 840.37 | STEEL GRATE AND FRAME | NOT FOR USE IN PEDESTRIAN AREAS |
| 840.41 | SPRING BOX CONCRETE OR BRICK | |
| 840.45 | PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL) | WAFFLE WALL IS NOT PERMITTED IN ROADWAY, PLANTING STRIPS, OR MEDIANS. ALL OPENINGS SHALL BE PRE-CAST |
| 840.46 | TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE | |
| 840.51 | BRICK MANHOLE 12" 36" PIPE | |
| 840.52 | PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE | IF USED AS A CATCH BASIN SUPPORTING NCDOT 840.03 FRAME, GRATE, AND HOOD - THE FLAT TOP SLAB ONLY ACCEPTABLE WHEN A 12" VERTICAL RISER CAN BE ACCOMMODATED ON TOP OF THE STRUCTURE (BETWEEN THE TOP OF FLAT TOP SLAB AND BOTTOM OF FRAME/GRATE) |
| 840.53 | PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE | IF USED AS A CATCH BASIN SUPPORTING NCDOT 840.03 FRAME, GRATE, AND HOOD - THE FLAT TOP SLAB ONLY ACCEPTABLE WHEN A 12" VERTICAL RISER CAN BE ACCOMMODATED ON TOP OF THE STRUCTURE (BETWEEN THE TOP OF FLAT TOP SLAB AND BOTTOM OF FRAME/GRATE) |
| 840.54 | MANHOLE FRAME AND COVER | ALL COVERS SHALL BE SUPPLIED WITH A MINIMUM OF TWO AND A MAXIMUM OF SIX 1-INCH DIAMETER VENT HOLES. |
| 840.55 | MANHOLE FRAME AND COVER (FLUSH WITH SLAB FOR OPEN THROAT CB) | ALL COVERS SHALL BE SUPPLIED WITH A MINIMUM OF TWO AND A MAXIMUM OF SIX 1-INCH DIAMETER VENT HOLES. |
| 840.66 | DRAINAGE STRUCTURE STEPS | |
| 840.71 | CONCRETE AND BRICK PIPE PLUG | |
| 840.72 | PIPE COLLAR | |
| 850.01 | CONCRETE PAVED DITCHES | |
| 852.04 | METHODS FOR PLACEMENT OF DROP INLETS IN GRASSED MEDIAN (USING 1'-6" CURB AND GUTTER) | |
| 852.05 | MEDIAN CURB FOR CATCH BASIN (FOR USE WITH 1'-6" CURB AND GUTTER) | |
| 852.06 | METHOD OF PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS | |
| 876.01 | RIP RAP IN CHANNELS | |
| 876.02 | GUIDE FOR RIP RAP AT PIPE OUTLETS | |
| 876.03 | DRAINAGE DITCHES WITH CLASS "A" RIP RAP | |
| 876.04 | DRAINAGE DITCHES WITH CLASS "B" RIP RAP | |
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NOTE 1: FOR ALL STRUCTURES - ALL CONCRETE USED FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3600 PSI AT 28 DAYS. THIS REQUIREMENT SHALL BE PROVIDED REGARDLESS OF ANY LESSER COMPRESSIVE STRENGTH SPECIFIED IN THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.



CITY OF CHARLOTTE
LAND DEVELOPMENT STANDARDS
 INCLUDES CHARLOTTE ETJ

NCDOT STANDARDS
 APPROVED FOR USE IN THE CITY OF CHARLOTTE
 AND CHARLOTTE ETJ

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