

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

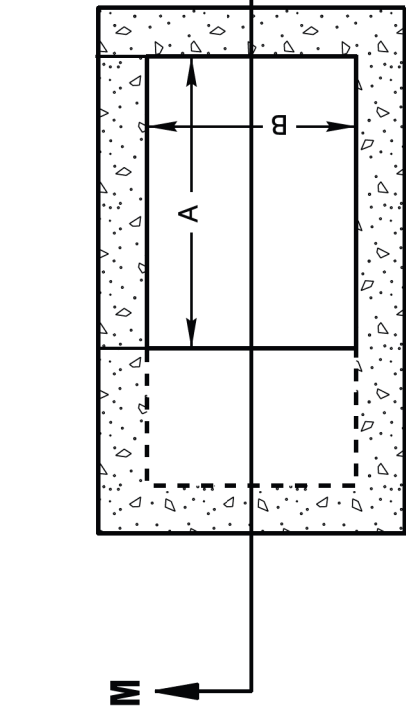
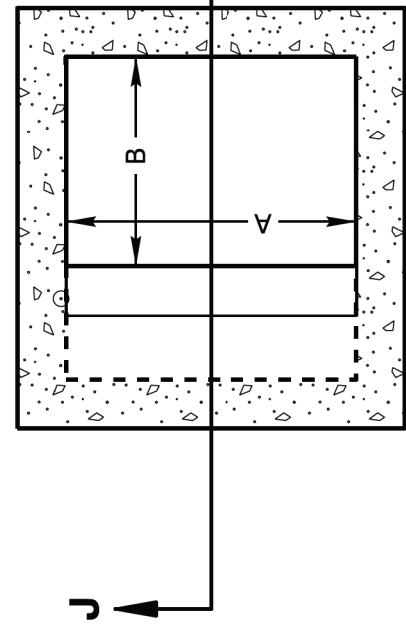
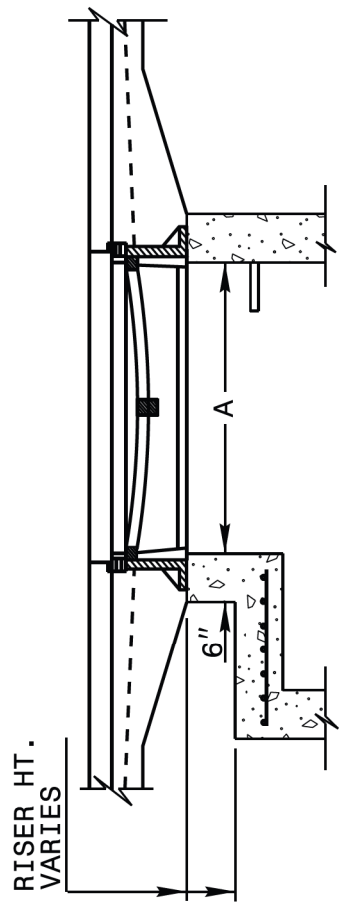
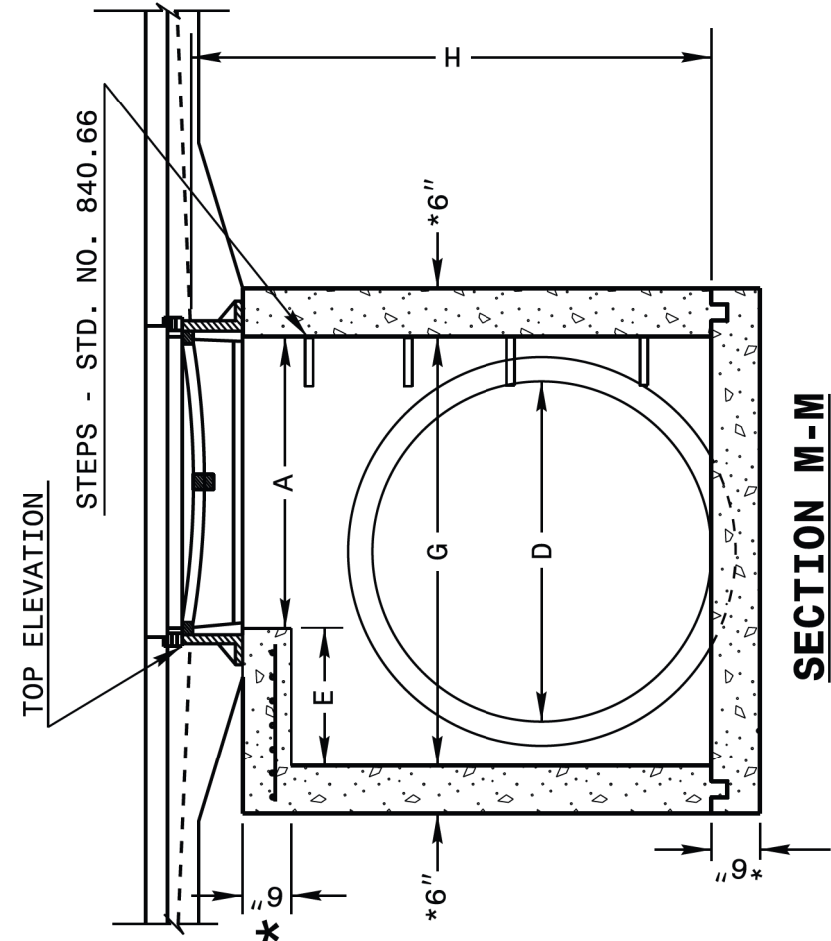
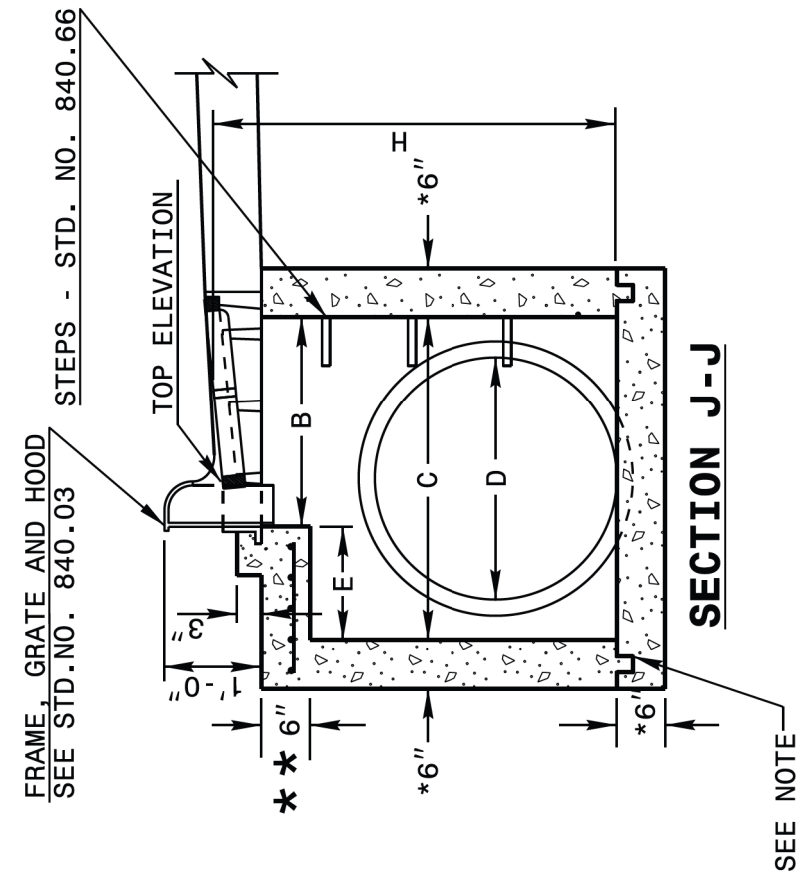
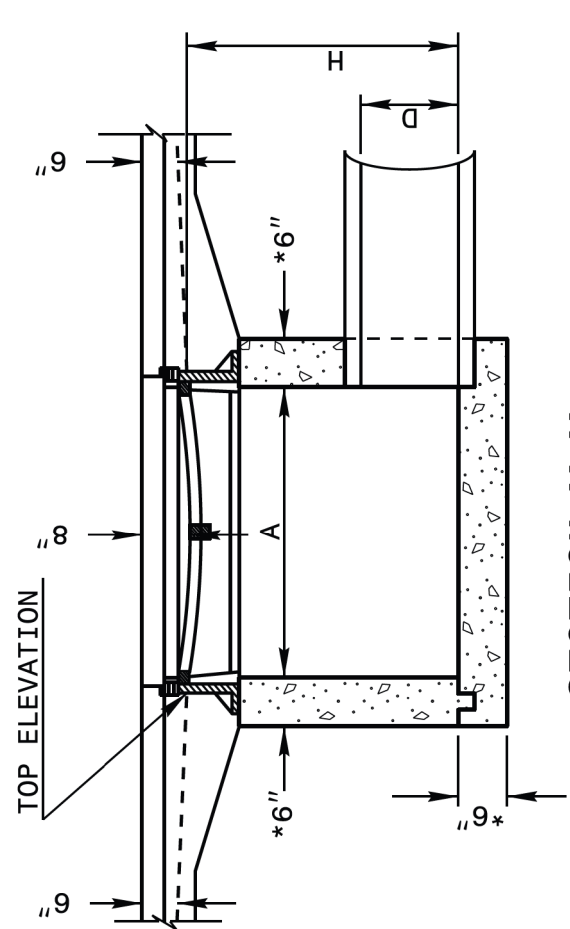
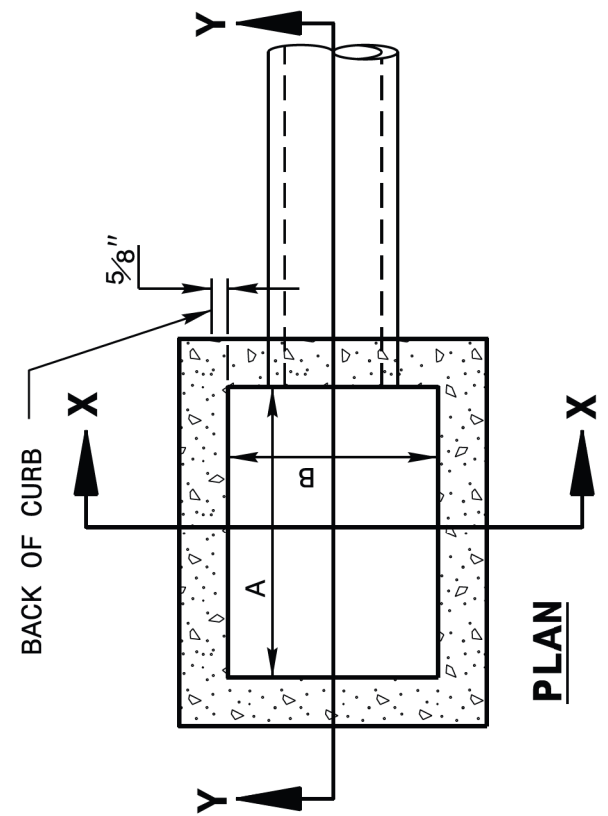
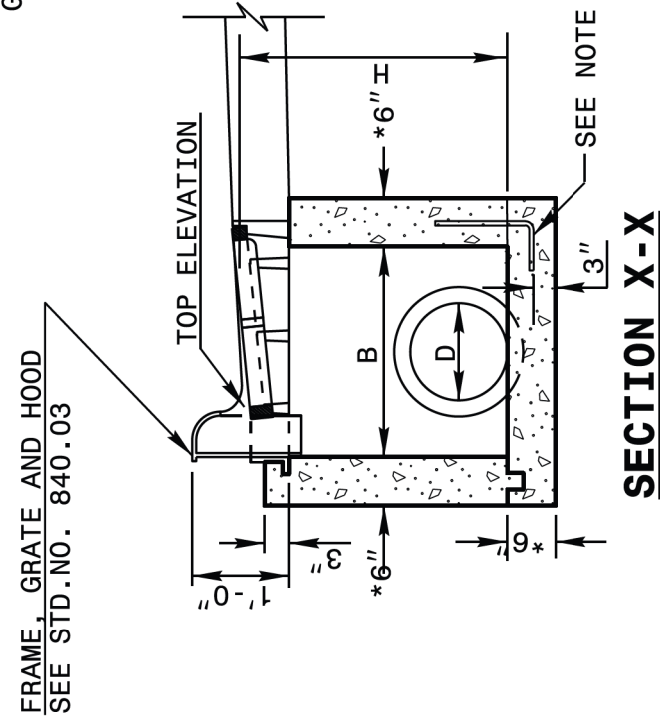
ENGLISH DETAIL DRAWING FOR
**EXTRA DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

SHEET 1 OF 2

840D02

GENERAL NOTES:

- USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 2'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
* USE 6" WALLS FOR BOXES UP TO 8' IN HEIGHT. USE 8" WALLS, 8" BOTTOM SLAB AND 8" TOP SLAB FOR BOXES GREATER THAN 8' IN HEIGHT AND UP TO 20' IN HEIGHT.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
** FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.



DETAIL SHOWING METHOD
OF RISER CONSTRUCTION

PLAN

PLAN

SHEET 1 OF 2
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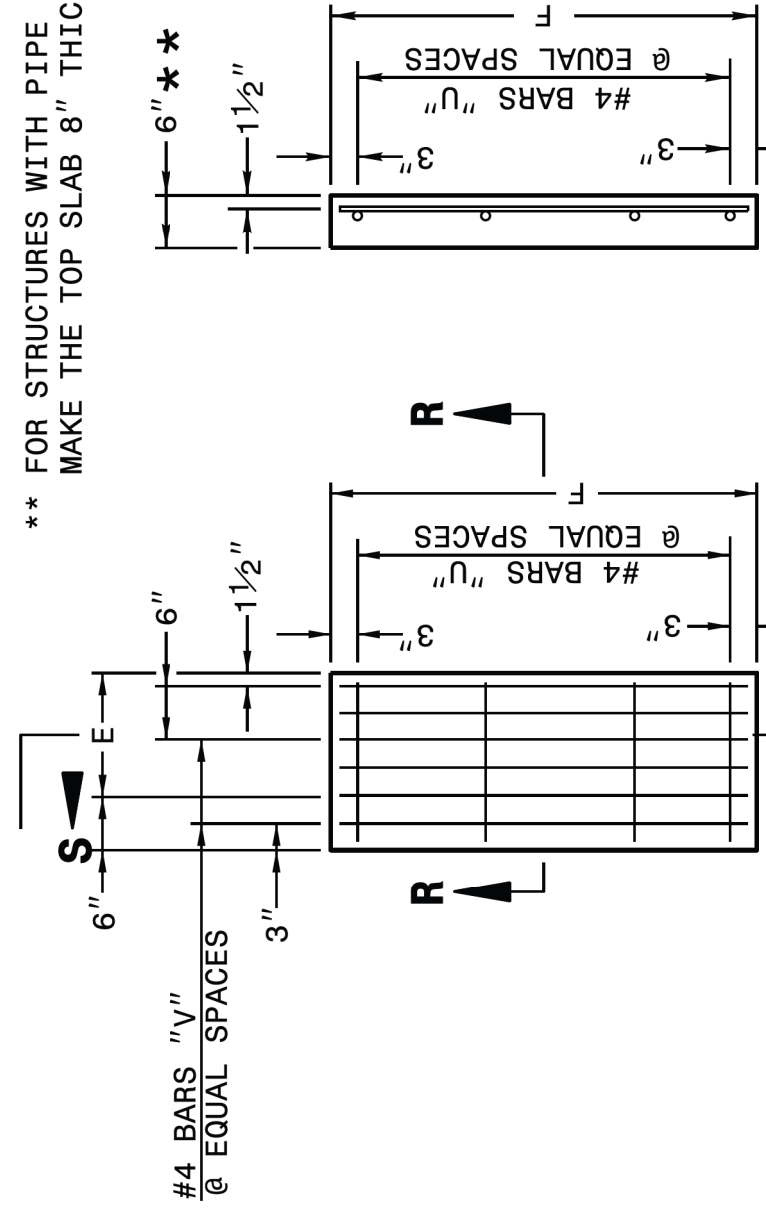
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ENGLISH DETAIL DRAWING FOR
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SHEET 2 OF 2

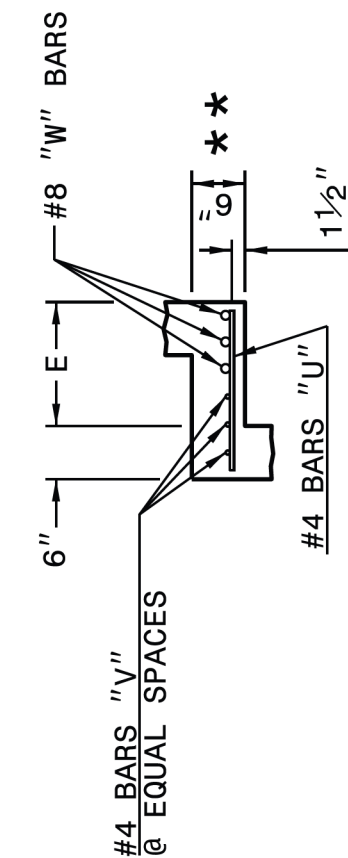
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** FOR STRUCTURES WITH PIPE LARGER THAN 54",
MAKE THE TOP SLAB 8" THICK.



PLAN OF TOP SLAB

SECTION S-S



SECTION R-R

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT
MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *

DIMENSIONS OF BOX AND PIPE				COVER DIMENSION				CONC. IN BOX				DEDUCTIONS			
PIPE D	SPAN A	WIDTH B	DEPTH C	MIN. SPAN G	MIN. DEPTH H	COVER E	F	NO. BARS-U	LENGTH	NO. BARS-V	LENGTH	NO. BARS-W	LENGTH	TOTAL LBS.	CU. YDS.
12"	3'-0"	2'-2"	2'-2"	--	2'-0"	--	--	--	--	--	--	--	--	--	--
15"	3'-0"	2'-2"	2'-2"	--	2'-3"	--	--	--	--	--	--	--	--	--	--
18"	3'-0"	2'-2"	2'-2"	--	2'-6"	--	--	--	--	--	--	--	--	--	--
24"	3'-0"	2'-2"	2'-2"	--	3'-1"	--	--	--	--	--	--	--	--	--	--
30"	3'-0"	2'-2"	2'-2"	--	3'-4"	--	--	--	--	--	--	--	--	--	--
36"	3'-0"	2'-2"	2'-2"	--	3'-10"	--	--	--	--	--	--	--	--	--	--
42"	3'-0"	2'-2"	2'-2"	--	4'-5"	--	--	--	--	--	--	--	--	--	--
48"	3'-0"	2'-2"	2'-2"	--	5'-0"	--	--	--	--	--	--	--	--	--	--
54"	3'-0"	2'-2"	2'-2"	--	5'-7"	--	--	--	--	--	--	--	--	--	--
60"	3'-0"	2'-2"	2'-2"	--	6'-3"	--	--	--	--	--	--	--	--	--	--
66"	3'-0"	2'-2"	2'-2"	--	6'-11"	--	--	--	--	--	--	--	--	--	--
72"	3'-0"	2'-2"	2'-2"	--	7'-6"	--	--	--	--	--	--	--	--	--	--
78"	3'-0"	2'-2"	2'-2"	--	8'-1"	--	--	--	--	--	--	--	--	--	--
84"	3'-0"	2'-2"	2'-2"	--	8'-9"	--	--	--	--	--	--	--	--	--	--

ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

ELEVATION

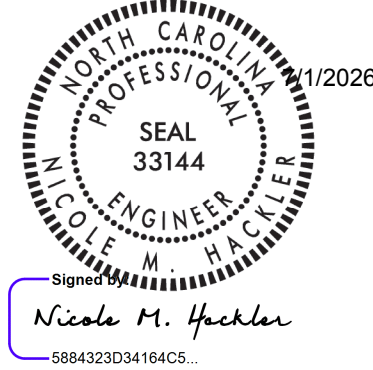
NORMAL CURB AND GUTTER ON LIGHT GRADES

DOWEL

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 Std.840.01 DATE: 3-1-02
MODIFIED BY: E.E. WARD DATE: 3-1-02
CHECKED BY: DATE: 3-1-02
FILE SPEC.: jhowerton/840d02 Extra Depth CB.dgn



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