

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

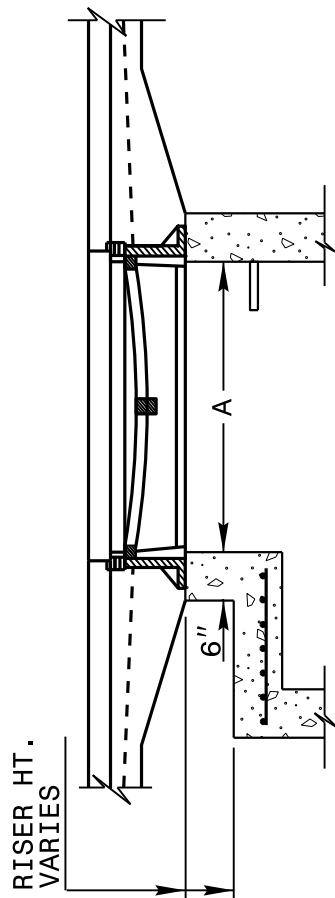
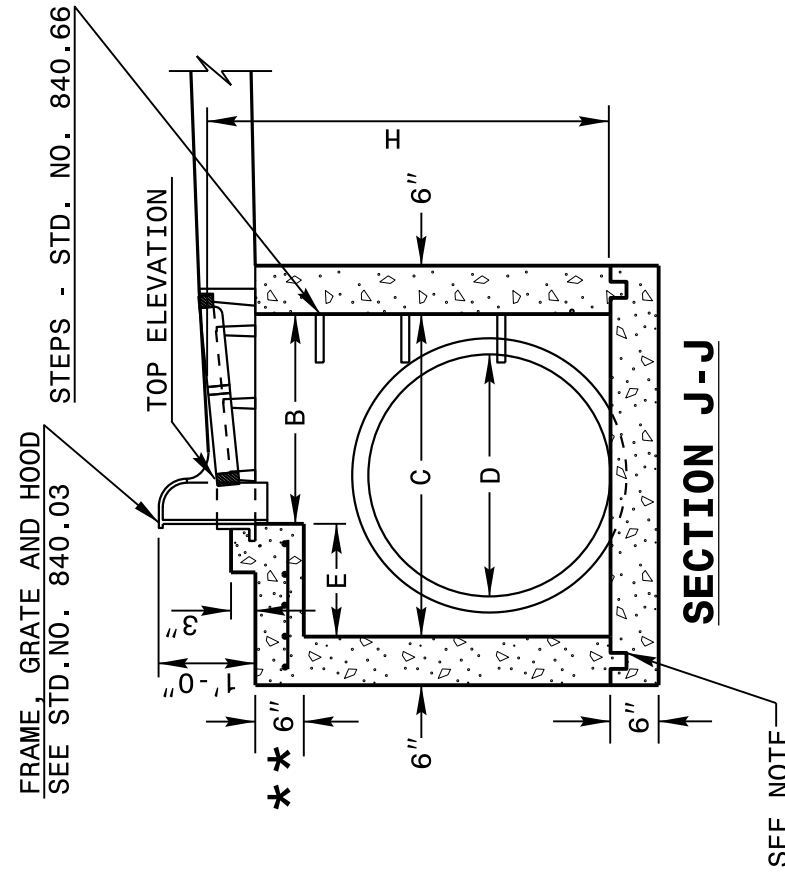
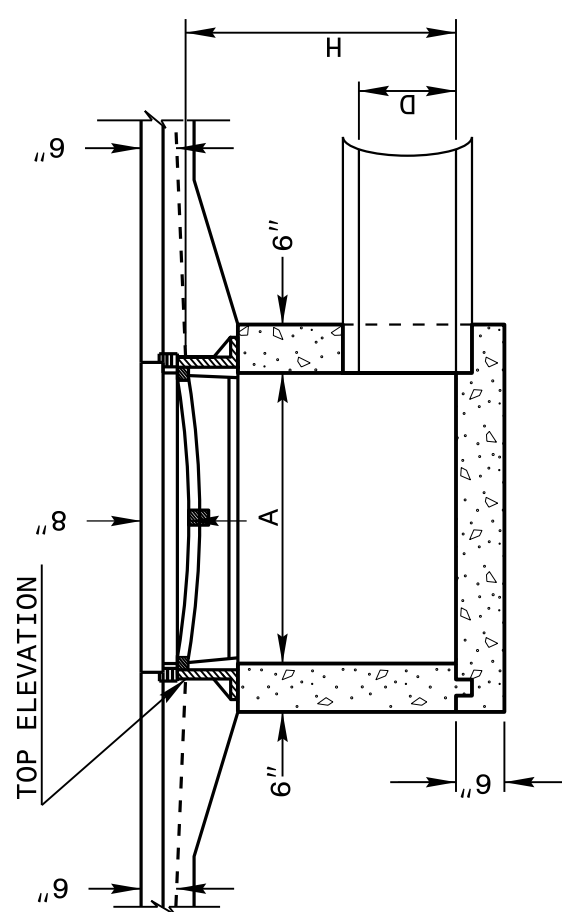
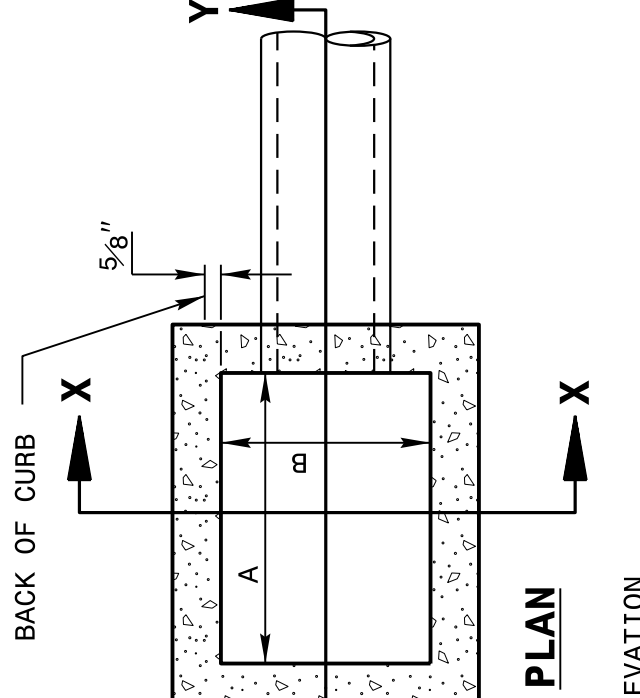
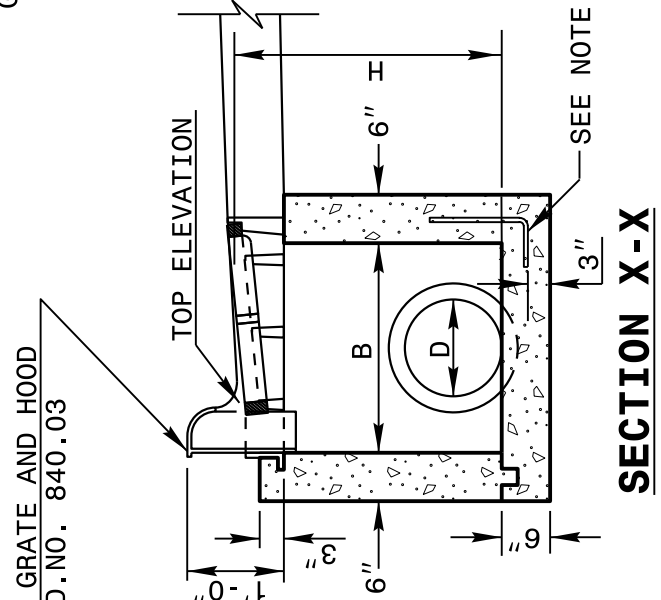
ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

SHEET 1 OF 2

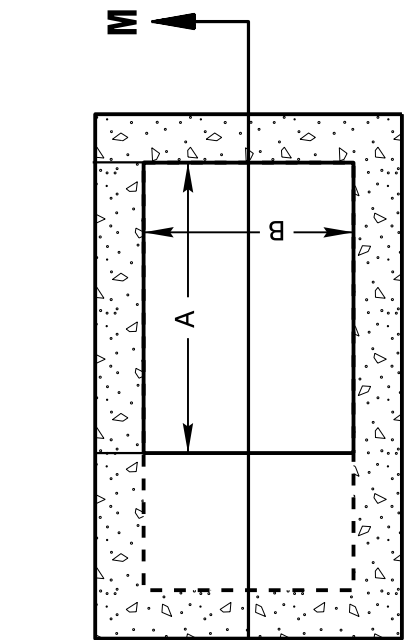
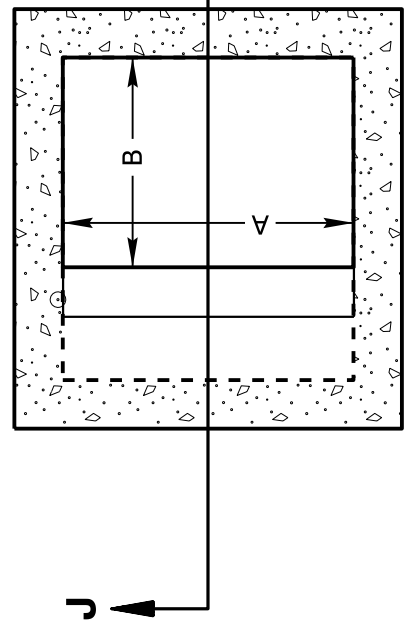
840D02

GENERAL NOTES:

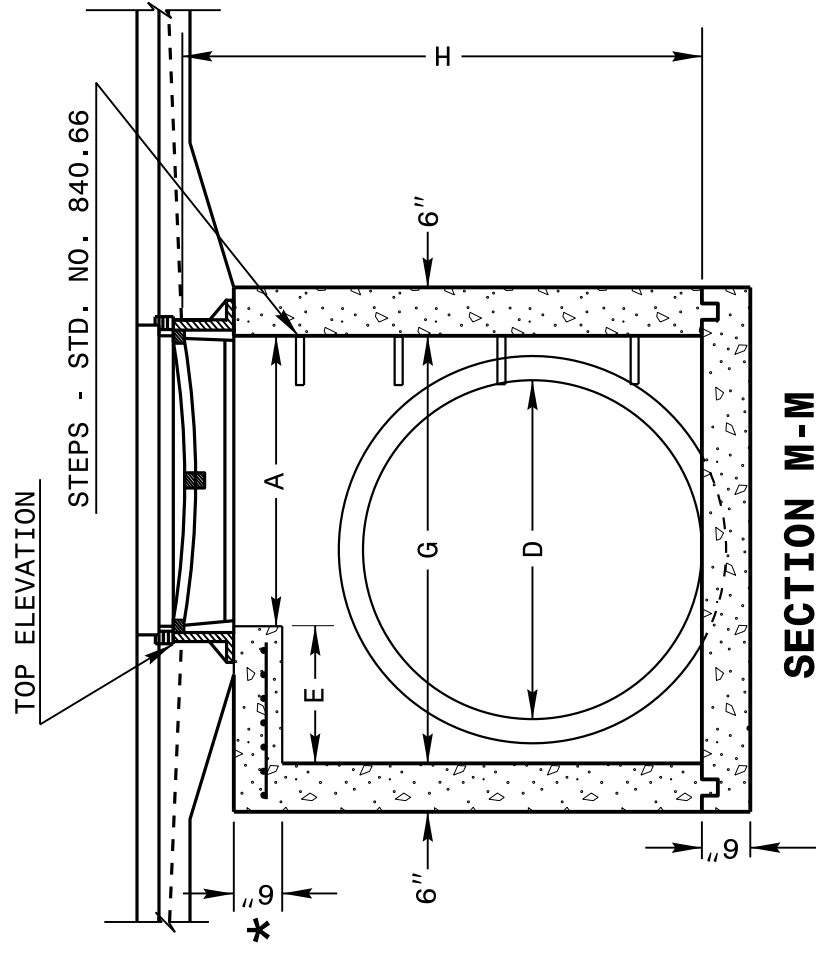
- USE CLASS "B" CONCRETE THROUGHOUT.
- PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
- OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
- USE FORMS FOR THE CONSTRUCTION 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.
- FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
- 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



SECTION M-M



ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
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12" THRU 84" PIPE

SHEET 1 OF 2

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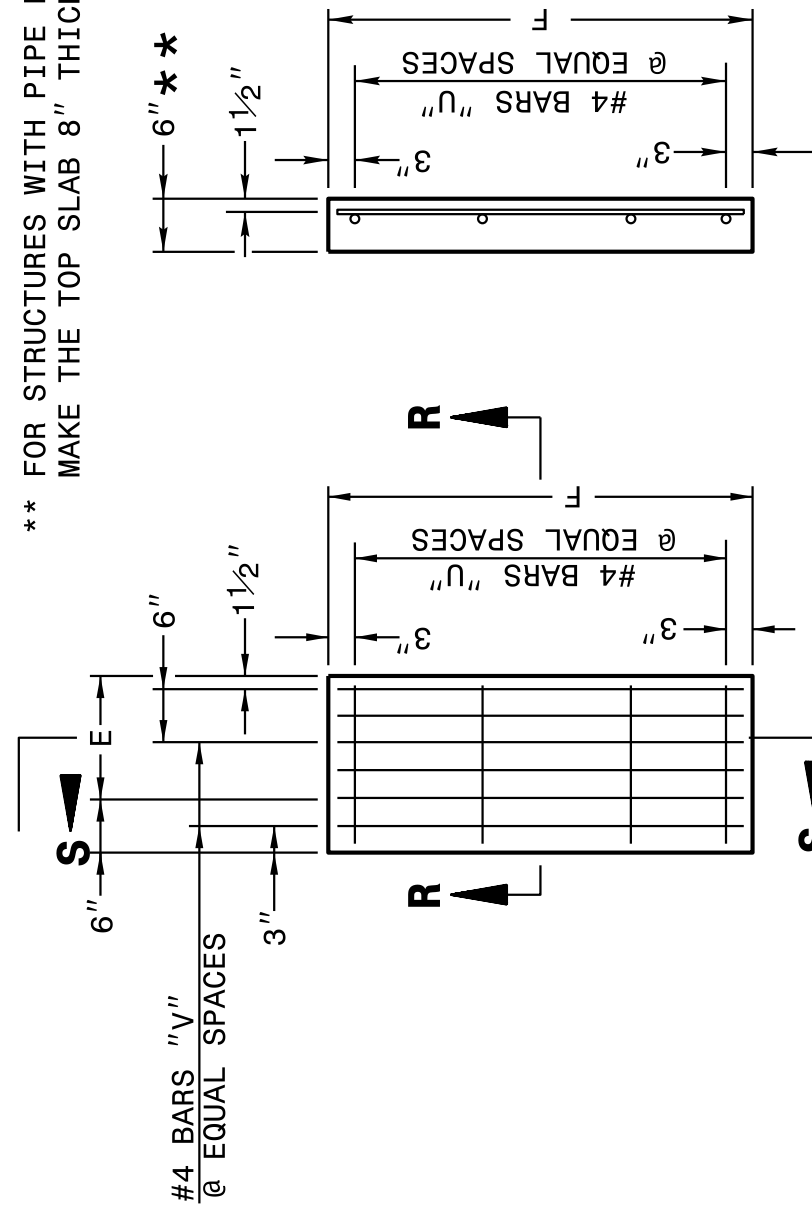
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ENGLISH DETAIL DRAWING FOR
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SHEET 2 OF 2

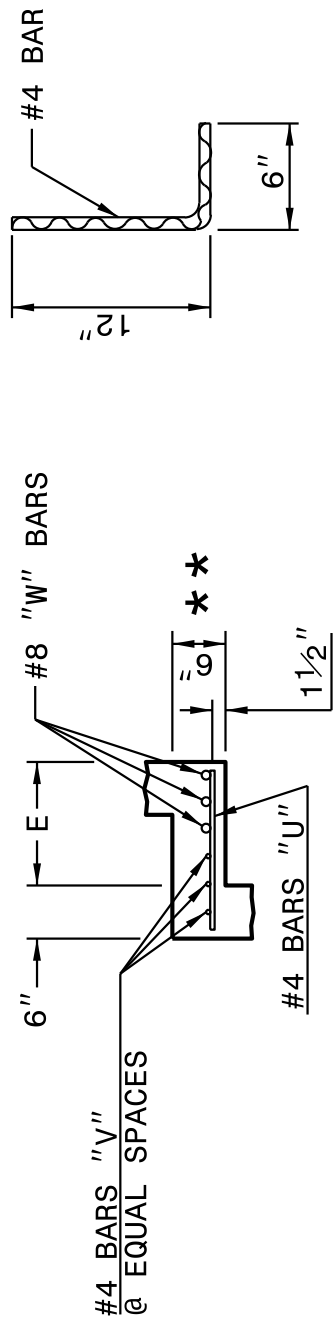
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** FOR STRUCTURES WITH PIPE LARGER THAN 54",
MAKE THE TOP SLAB 8" THICK.



PLAN OF TOP SLAB

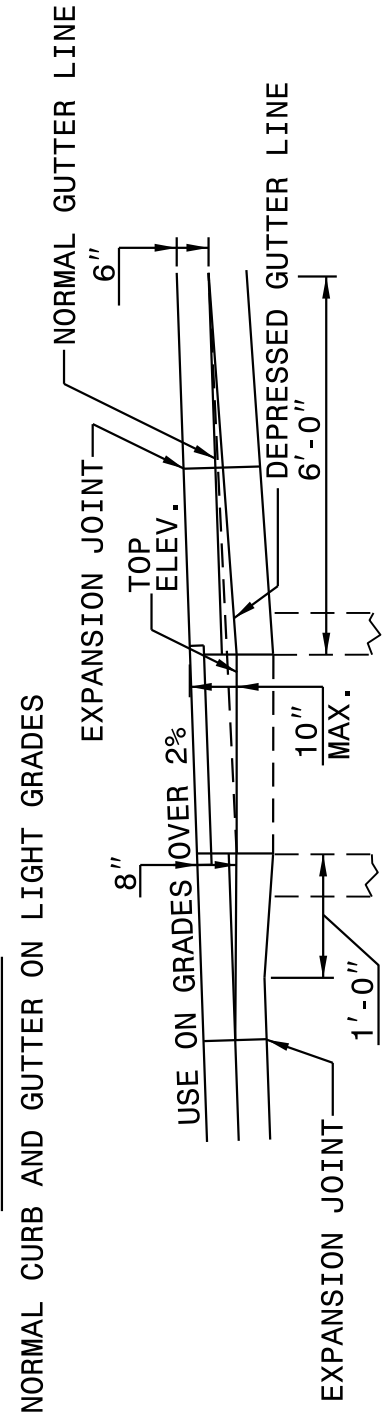
SECTION S-S



SECTION R-R

DOWEL

ELEVATION

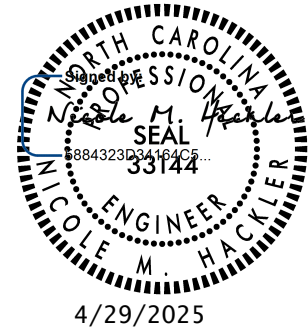


ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

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



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

SEE PLATE FOR TITLE

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