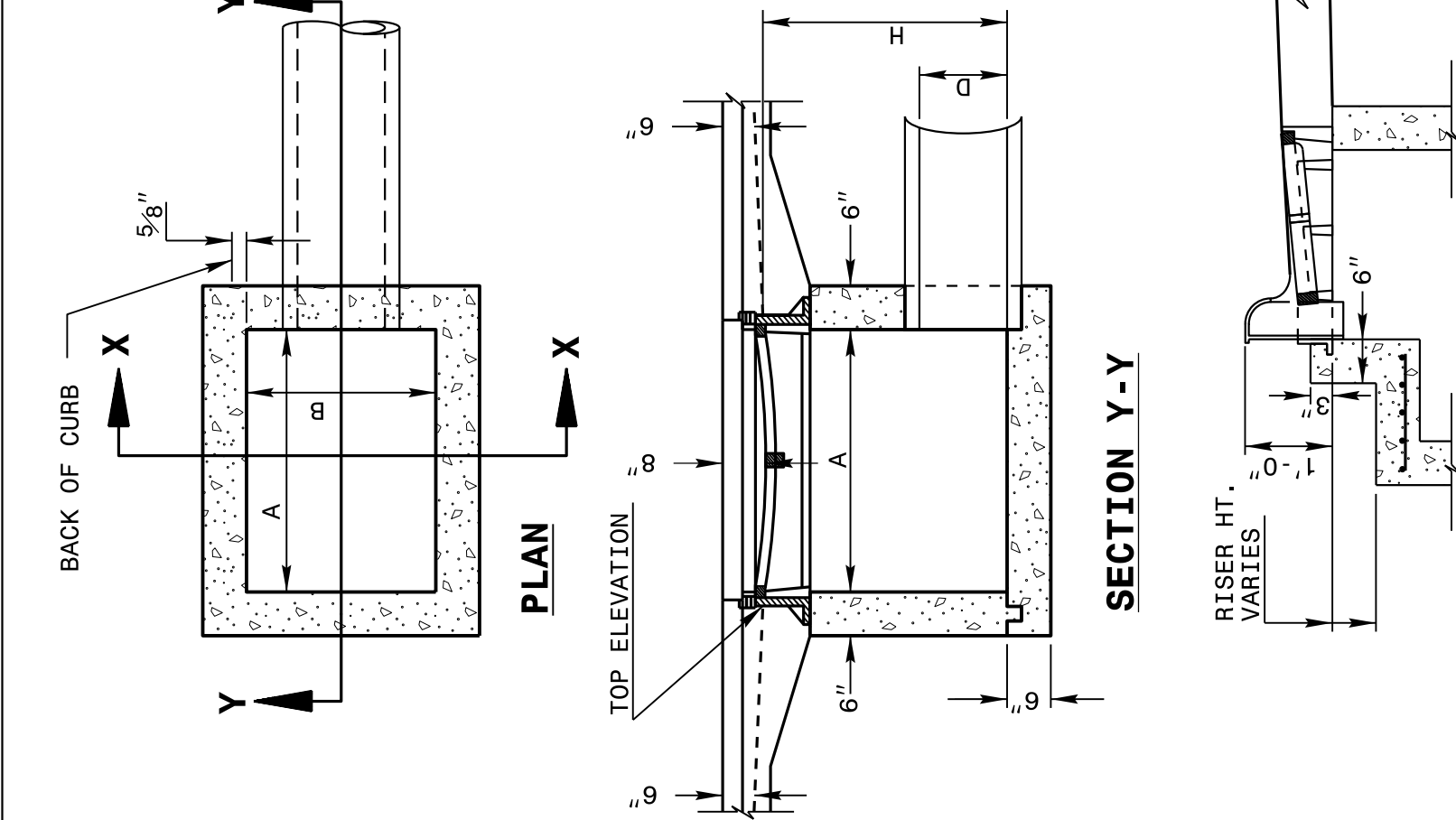


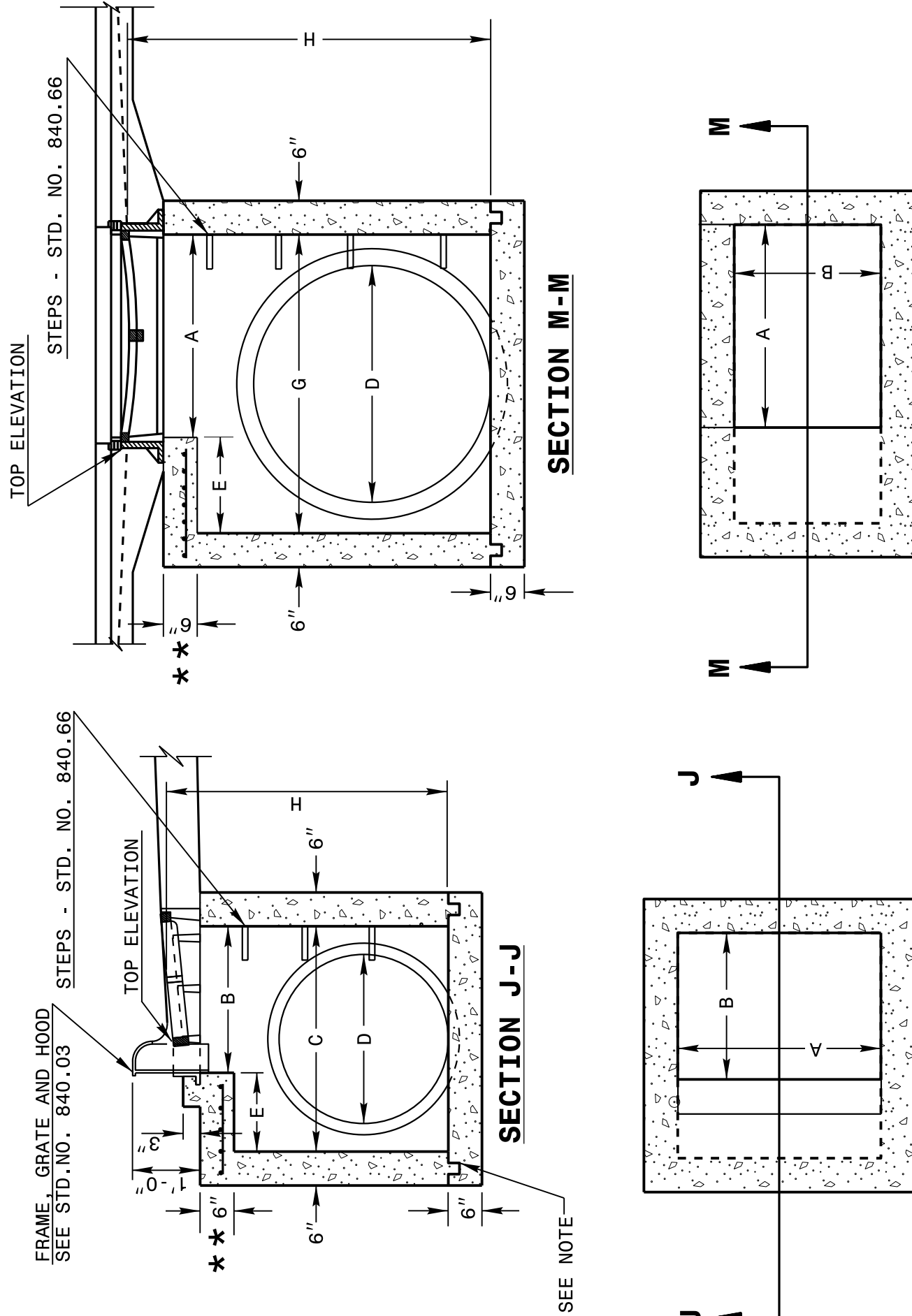
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RALEIGH, N.C.

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.



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

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

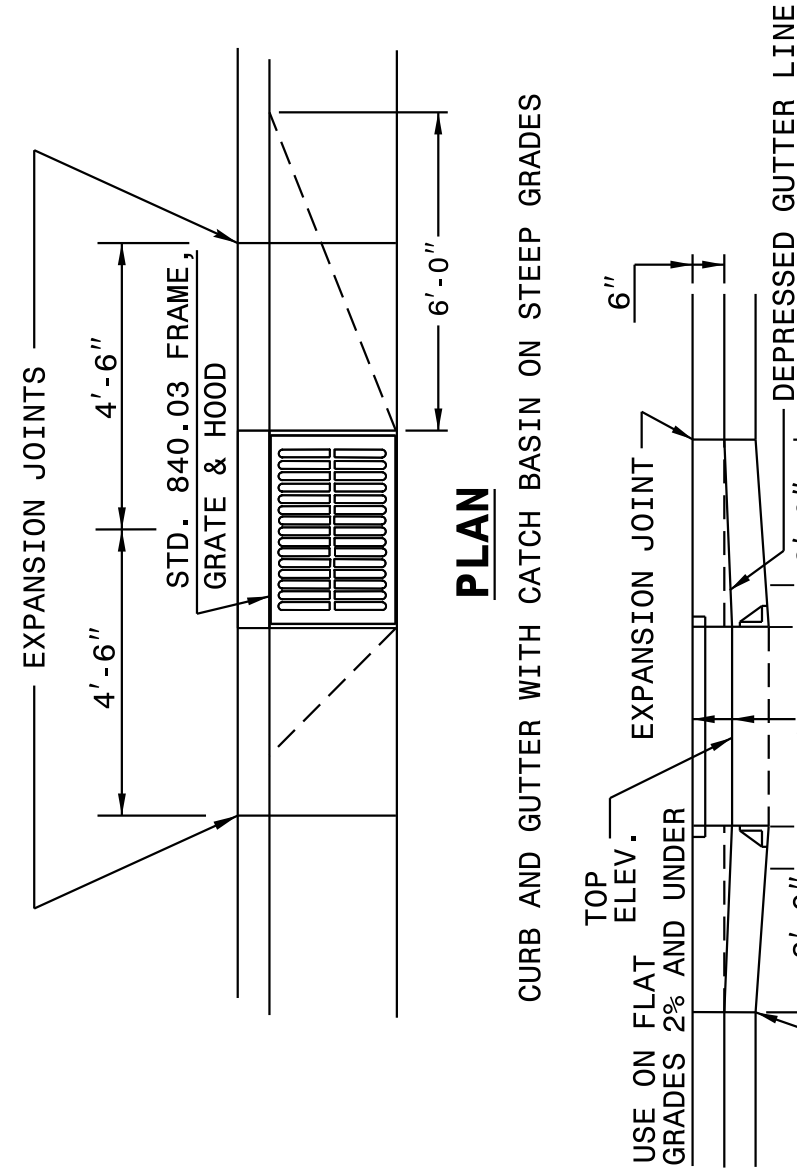


DETAIL SHOWING METHOD
OF RISER CONSTRUCTION

SHEET 1 OF 2

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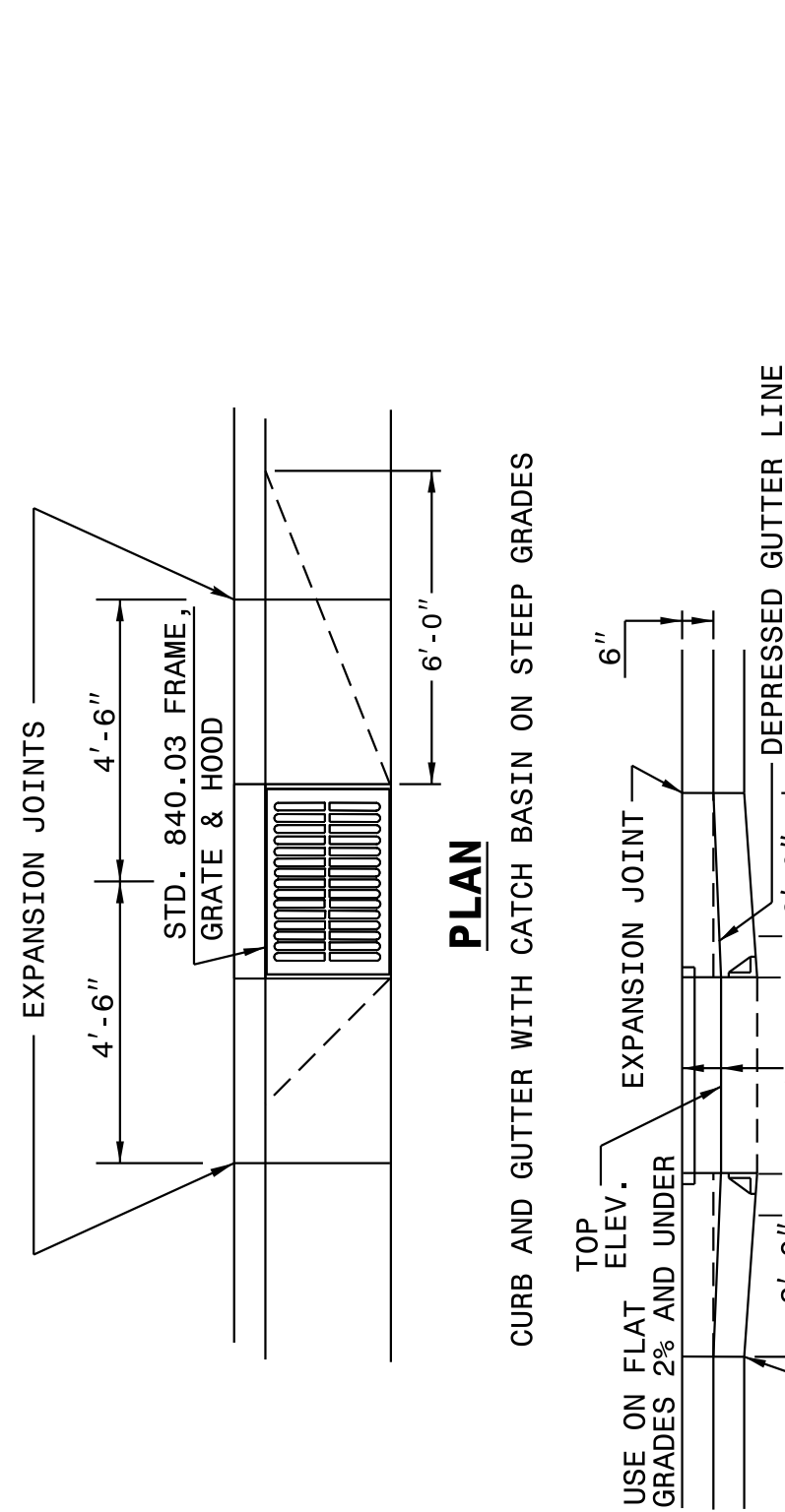
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** FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.

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12" THRU 84" PIPE

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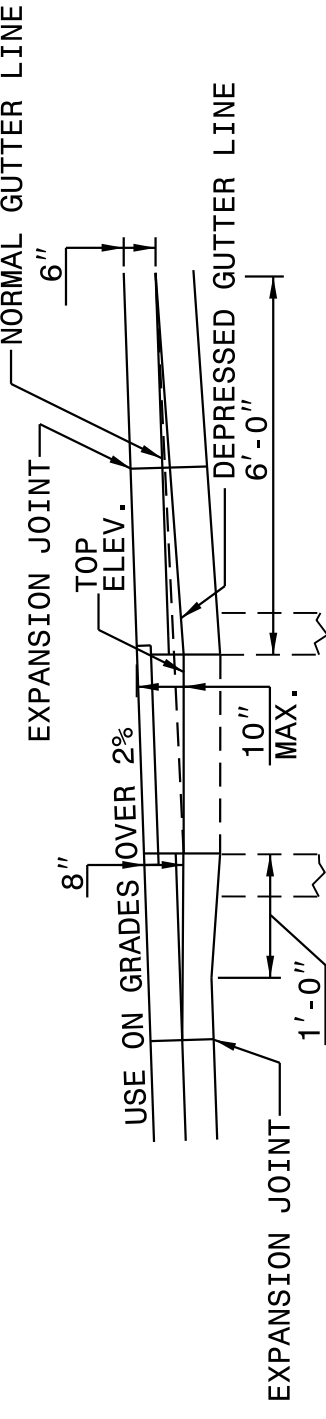
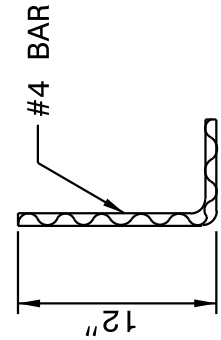


PLAN OF TOP SLAB

SECTION S-S

ELEVATION

NORMAL CURB AND GUTTER ON LIGHT GRADES



DOWEL

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	TOP SLAB	BOTTOM SLAB	TOT. CONC. FOR MINIMUM HEIGHT, H	ONE PIPE
	A	B	C	G	E	F	H	C.M.	R.C.
12"	3'-0"	2'-2"	--	--	2'-0"	--	--	0.235	0.015
15"	3'-0"	2'-2"	--	--	2'-3"	--	--	0.235	0.036
18"	3'-0"	2'-2"	--	--	2'-6"	--	--	0.235	0.049
24"	3'-0"	2'-2"	--	--	3'-1"	--	--	0.235	0.085
30"	3'-0"	2'-2"	3'-4"	3'-10"	1'-2"	4'-4"	4	0.123	0.127
36"	3'-0"	2'-2"	3'-10"	3'-10"	1'-8"	4'-10"	4	0.161	0.178
42"	3'-0"	2'-2"	4'-5"	4'-5"	2'-2"	5'-5"	5	0.200	0.243
48"	3'-0"	2'-2"	5'-0"	5'-0"	2'-10"	6'-0"	5	0.235	0.317
54"	3'-0"	2'-2"	5'-7"	5'-7"	3'-5"	6'-7"	6	0.289	0.401
60"	3'-0"	2'-2"	6'-3"	6'-3"	4'-1"	7'-3"	6	0.340	0.546
66"	3'-0"	2'-2"	6'-11"	6'-11"	4'-9"	7'-11"	7	0.391	0.655
72"	3'-0"	2'-2"	7'-6"	7'-6"	5'-3"	8'-6"	7	0.442	0.774
78"	3'-0"	2'-2"	8'-1"	8'-1"	5'-11"	9'-1"	8	0.493	0.893
84"	3'-0"	2'-2"	8'-9"	8'-9"	6'-7"	9'-9"	8	0.544	1.010

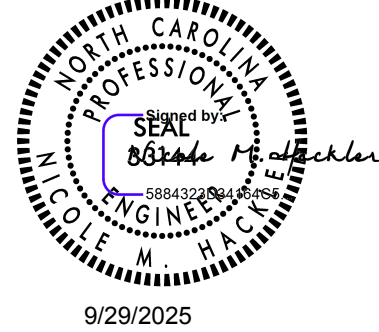
SHEET 2 OF 2

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

SEE PLATE FOR TITLE

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9/29/2025

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