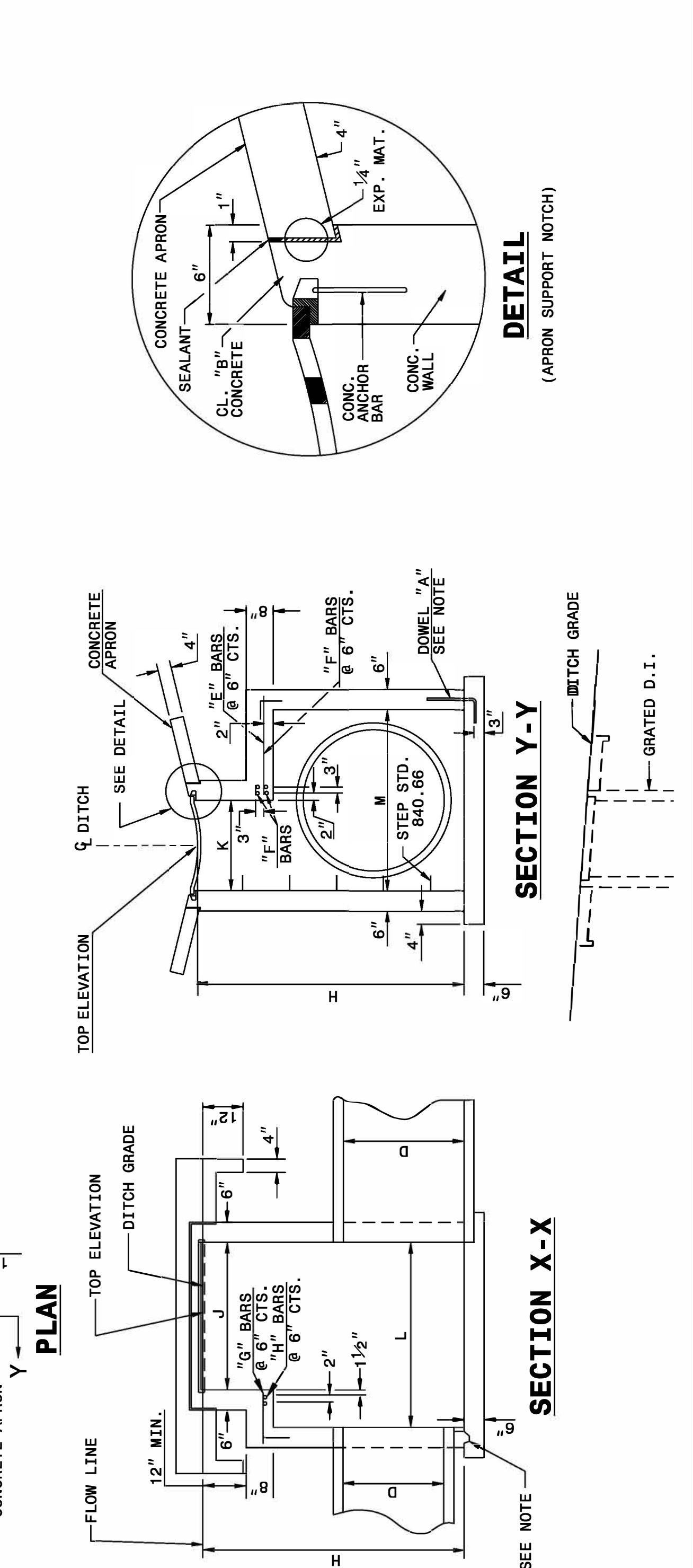
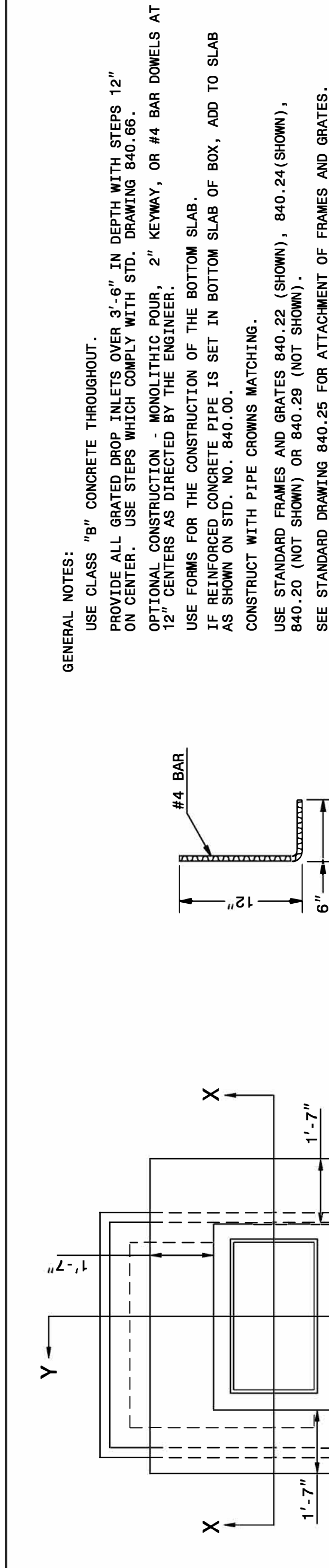


STATE OF
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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

SHEET 1 OF 2
840d17

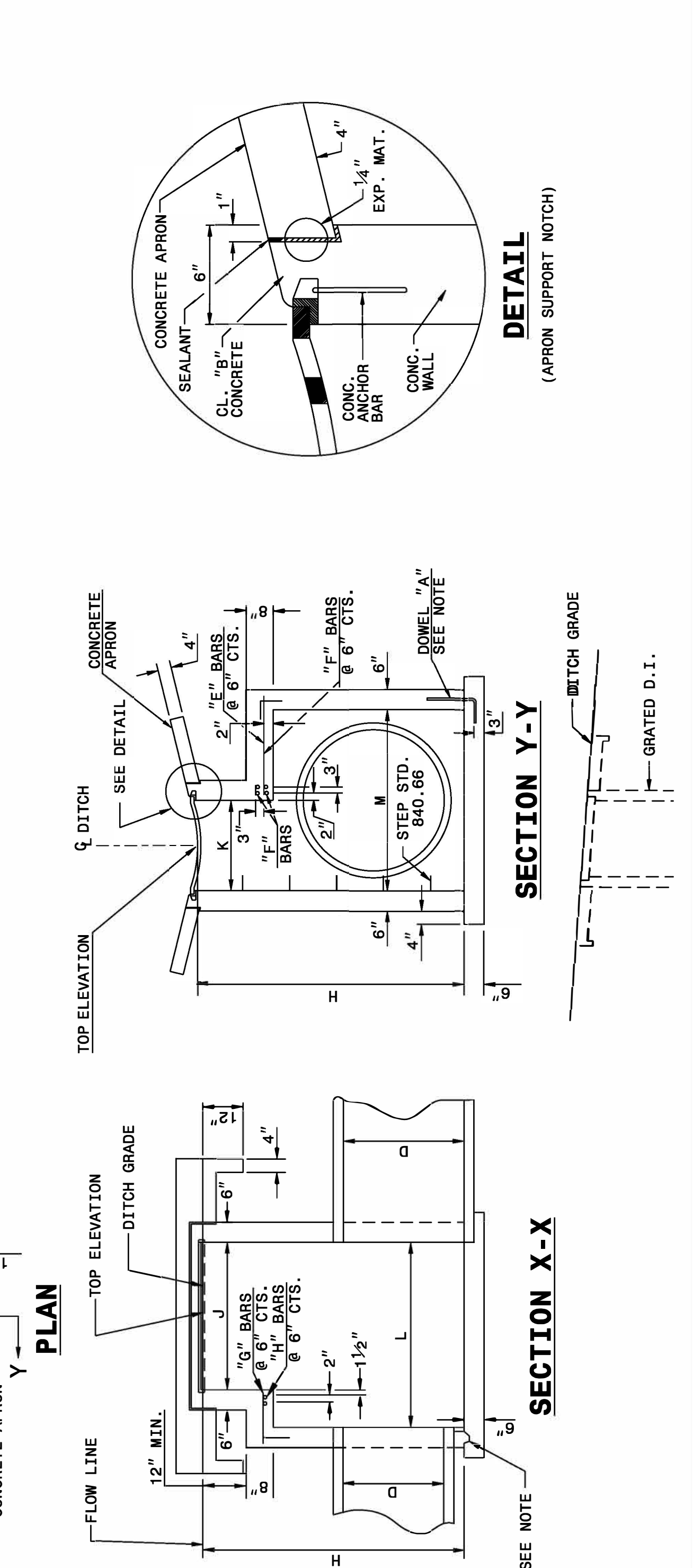


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MINIMUM DEPTH
12" THRU 72" PIPE

SHEET 1 OF 2
840d17

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL GRATED DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 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.
CONSTRUCT WITH PIPE CROWNS MATCHING.
USE STANDARD FRAMES AND GRATES 840.22 (SHOWN), 840.24 (SHOWN), 840.20 (NOT SHOWN) OR 840.28 (NOT SHOWN).
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

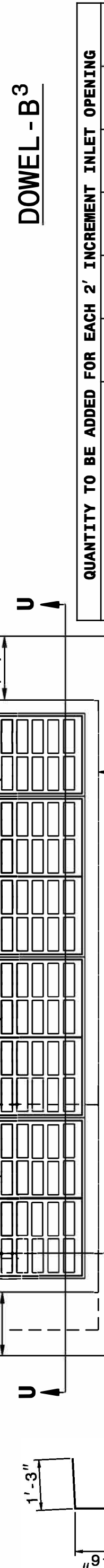
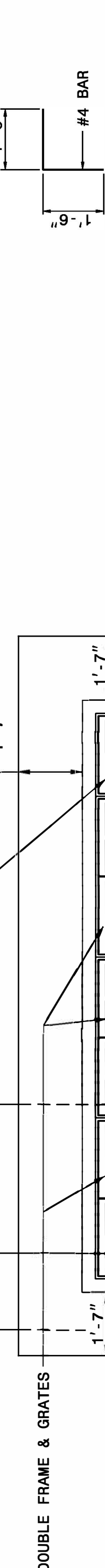
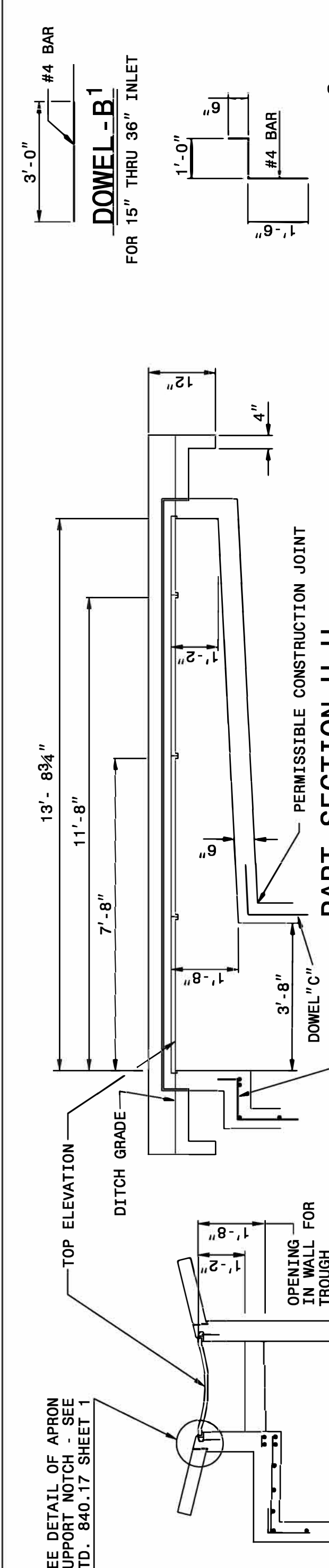


SECTION X-X
SECTION Y-Y
DETAIL
(APRON SUPPORT NOTCH)

STATE OF
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ENGLISH DETAIL DRAWING FOR
CONCRETE GRATED DROP INLET TYPE 'A'
MINIMUM DEPTH
12" THRU 72" PIPE

SHEET 2 OF 2
840d17



QUANTITY TO BE ADDED FOR EACH 2' INCREMENT INLET OPENING

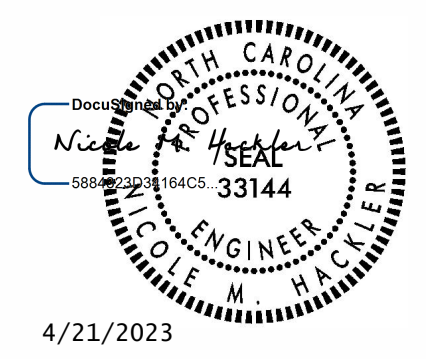
ADDITIONAL INLETS	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"
CONCRETE CU. YDS.	0.191	0.417	0.665	0.897	1.145	1.380
CONCRETE APRON CU. YDS.	0.074	0.148	0.222	0.296	0.370	0.444

PIPE	DIMENSIONS OF BOX AND PIPE		REINFORCING STEEL - NO. 4 BARS				TOTAL BOTTOM SLAB		CU YDS CONC. IN BOX		DEDUCTIONS				
	SPAN	WIDTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	H	PER	APRON	TOTAL	ONE	FOR	
D	J	K	L	M	H	G	F	E	FT	FT	FT	FT	C.S.	R.C.	
12"	3'-8"	2'-0"	3'-8"	2'-0"	2'-3"	—	—	—	0.362	0.926	0.247	0.395	1.683	0.015	0.024
15"	3'-8"	2'-0"	3'-8"	2'-0"	2'-5"	—	—	—	0.362	0.988	0.247	0.395	1.745	0.023	0.036
18"	4'-0"	2'-0"	4'-0"	2'-0"	2'-8"	—	—	—	0.444	1.050	0.278	0.444	1.807	0.033	0.049
24"	4'-0"	2'-0"	4'-0"	2'-0"	3'-3"	8	1'-5"	6	4'-9"	—	—	27	2.201	0.059	0.085
30"	4'-0"	2'-0"	4'-0"	2'-0"	3'-10"	8	2'-0"	7	4'-9"	—	—	33	2.541	0.082	0.127
36"	4'-0"	2'-0"	4'-0"	2'-0"	4'-4"	8	2'-5"	8	4'-11"	4	0'-9"	2	2.920	0.132	0.178
42"	4'-0"	2'-0"	4'-0"	2'-0"	5'-0"	10	3'-1"	9	5'-7"	3	1'-5"	3	3.677	0.180	0.243
48"	4'-0"	2'-0"	4'-0"	2'-0"	5'-6"	11	3'-7"	10	6'-1"	4	1'-11"	4	4.315	0.235	0.317
54"	4'-0"	2'-0"	4'-0"	2'-0"	6'-0"	12	4'-1"	11	6'-7"	5	2'-5"	5	5.072	0.287	0.401
60"	4'-0"	2'-0"	4'-0"	2'-0"	6'-7"	13	4'-9"	12	7'-3"	6	3'-1"	6	6.170	0.367	0.495
66"	4'-0"	2'-0"	4'-0"	2'-0"	7'-1"	14	5'-4"	14	7'-10"	7	3'-7"	7	6.901	0.444	0.599
72"	4'-0"	2'-0"	4'-0"	2'-0"	7'-8"	15	5'-11"	15	8'-5"	8	4'-3"	8	7.868	0.528	0.713

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

SEE TITLE BLOCK

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4/21/2023

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