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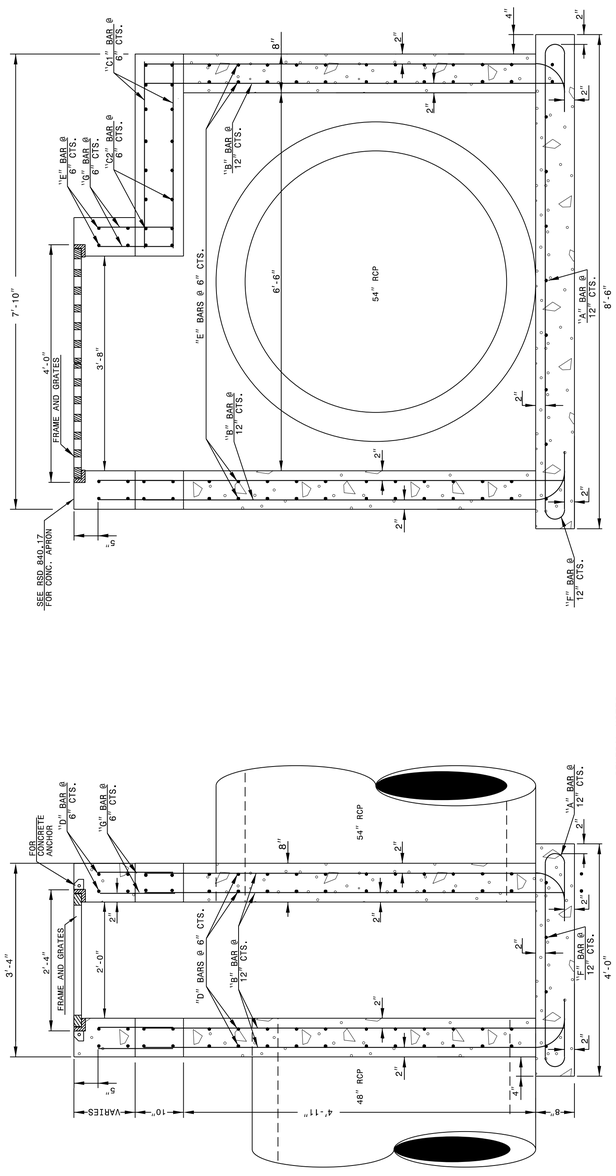
PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-18

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

ENGLISH DETAIL DRAWING FOR TRAFFIC BEARING GRATED INLET FOR PIPES UP TO 54" SHEET 1 OF 2 840D35



GENERAL NOTES:
-CONCRETE IN CLASS 'AA' CONCRETE
-FILLET WITH 1" CHAMFER ALL EXPOSED CONCRETE CORNERS 3".
-CHAMFER ALL EXPOSED CONCRETE EDGES 1".
-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
-IF PIPES ARE SET IN THE BASE, FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD. DWG. 840.00.
-PRECAST UNITS CONCRETE MAY BE USED IN LIEU CAST IN PLACE CONCRETE.
-REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
-PROVIDE DOWEL NUTS OVER 3.45" DEEP WITH STEPS AS DIRECTED BY STD. DWG. 840.66
-FRAME AND GRATES ARE SEPARATE CONTRACT ITEM.

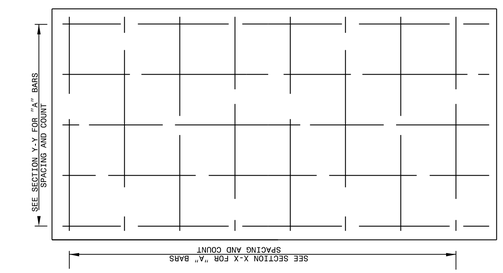
NOTES:
-HORIZONTAL (UP TO 10' MAX. IN BOTH DIRECTIONS) AND VERTICAL (UP TO 20' MAX.) DIMENSIONS MAY BE ADJUSTED AS THE FIELD CONDITIONS AND/OR ALTERNATE DESIGNS DICTATE.
-ALL ADJUSTMENTS ARE TO BE MADE AS DIRECTED BY THE ENGINEER.

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

ENGLISH DETAIL DRAWING FOR **TRAFFIC BEARING GRATED INLET** FOR PIPES UP TO 54" SHEET 1 OF 2 **840D35**

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

ENGLISH DETAIL DRAWING FOR TRAFFIC BEARING GRATED INLET FOR PIPES UP TO 54" SHEET 2 OF 2 840D35

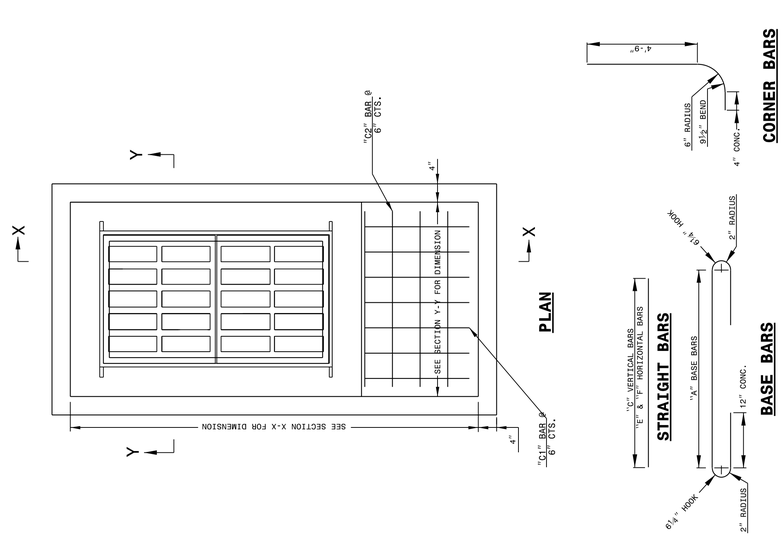


PLAN OF BASE

BILL OF MATERIALS

BAR	SIZE	LENGTH	QUANTITY	WEIGHT
A	#5	5'-0"	42	47
B	#5	7'-6"	104	780
C1	#5	3'-4"	9	32
C2	#5	3'-0"	6	19
D	#5	7'-6"	48	376
E	#5	3'-0"	48	151
F	#5	10'-0"	4	42
G	#5	1'-8"	104	181
REINF. STEEL (TOTAL WEIGHT LBS.)				1628
CONCRETE TOTAL (CU.YDS.) CLASS "AA"				5.1
NO DEDUCTIONS HAVE BEEN MADE TO ACCOMMODATE PIPES				

FOR EVERY 1 FOOT OF RISER USE 0.41 CU.YDS CONCRETE AND 390 LBS STEEL.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NORTH CAROLINA PROFESSIONAL SEAL 33144 ENGINEER NICOLE M. HACK
10/13/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

ENGLISH DETAIL DRAWING FOR **TRAFFIC BEARING GRATED INLET** FOR PIPES UP TO 54" SHEET 2 OF 2 **840D35**

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

SEE PLATE FOR TITLE

ORIGINAL BY:	K. KEMPF	DATE:	03-03-2015
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC.:	jhowerton/840d35 TBDI Up to 54in.dgn		

13-AUG-2018 09:00
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