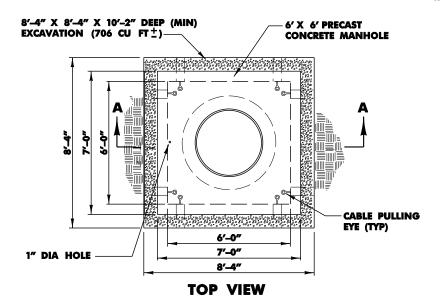
6' X 6' PRECAST MANHOLE CUSTOMER INSTALLATION

HS 20 - 44 LOADING MAXIMUM CABLE SIZE #1/0

STD 8.08.9



NOTES:

CONTACT ENGINEER IF SOIL MOISTURE / GROUND WATER IS ENCOUNTERED AT DEPTH OF LESS THAN 3'-0" BELOW GRADE.

TOP PORTION OF MANHOLE = 2.42 TONS BOTTOM PORTION OF MANHOLE = 8.75 TONS

DRIVE 58" X 10' GROUND ROD (0000002821) THRU 1" HOLE IN BOTTOM OF PRECAST MANHOLE PRIOR TO THE SETTING OF THE TOP OF MANHOLE. EXTEND GROUND ROD 6" ABOVE MANHOLE FLOOR.

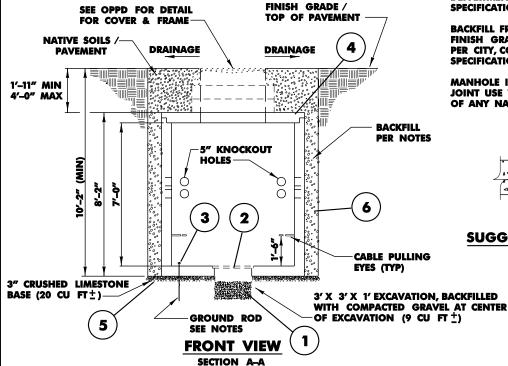
WATER BARRIER (MASTIC) PROVIDED BY MANHOLE MANUFACTURER MUST BE INSTALLED BETWEEN TOP AND BOTTOM PORTIONS.

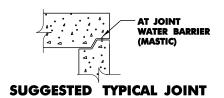
COLLARS SHALL BE SHIMMED & GROUTED ON MANHOLE ROOF TO ATTAIN REQUIRED SLOPE PER DIRECTION OF ENGINEER.

BACKFILL TO TOP OF MANHOLE WITH "FLOWABLE FILL" PER NEBRASKA DEPARTMENT OF ROADS (NDOR) SPECIFICATIONS.

BACKFILL FROM TOP OF MANHOLE TO FINISH GRADE WITH COMPACTED SOIL PER CITY, COUNTY OR STATE SPECIFICATIONS, WHICHEVER GOVERNS.

MANHOLE IS FOR OPPD'S EXCLUSIVE USE.
JOINT USE WITH CUSTOMER EQUIPMENT
OF ANY NATURE SHALL NOT BE ALLOWED.





BILL OF MATERIAL			
ITEM	DESCRIPTION REQ'D		
1	GRAVEL	1/3 CU YD	
2	STEEL GRATING, 2' X 2'	1	
3	GROUND ROD, 5/8" X 10"	1	
4	MANHOLE, 6' X 6'	1	
5	CRUSHED LIMESTONE	3/4 CU YD	
6	FLOWABLE BACKFILL	7 CU YDS	

FLOWABLE FILL (NDOR)		
MATERIAL	WEIGHT	
CEMENT	50 LBS	
FLY ASH	200 LBS	
WATER	420 LBS	
SAND	2700 LBS	
AEA	10 OZ/CY	

COMPRESSIVE STRENGTH (28 DAYS) 85-175 PSI AIR CONTENT FOR ALL MIXES WILL BE IN THE RANGE OF 10.0% TO 16.0%

Revised 11-21-02 By BED DESIGN ENTRY BY: BRANT DANGEL

ISSUED DATE