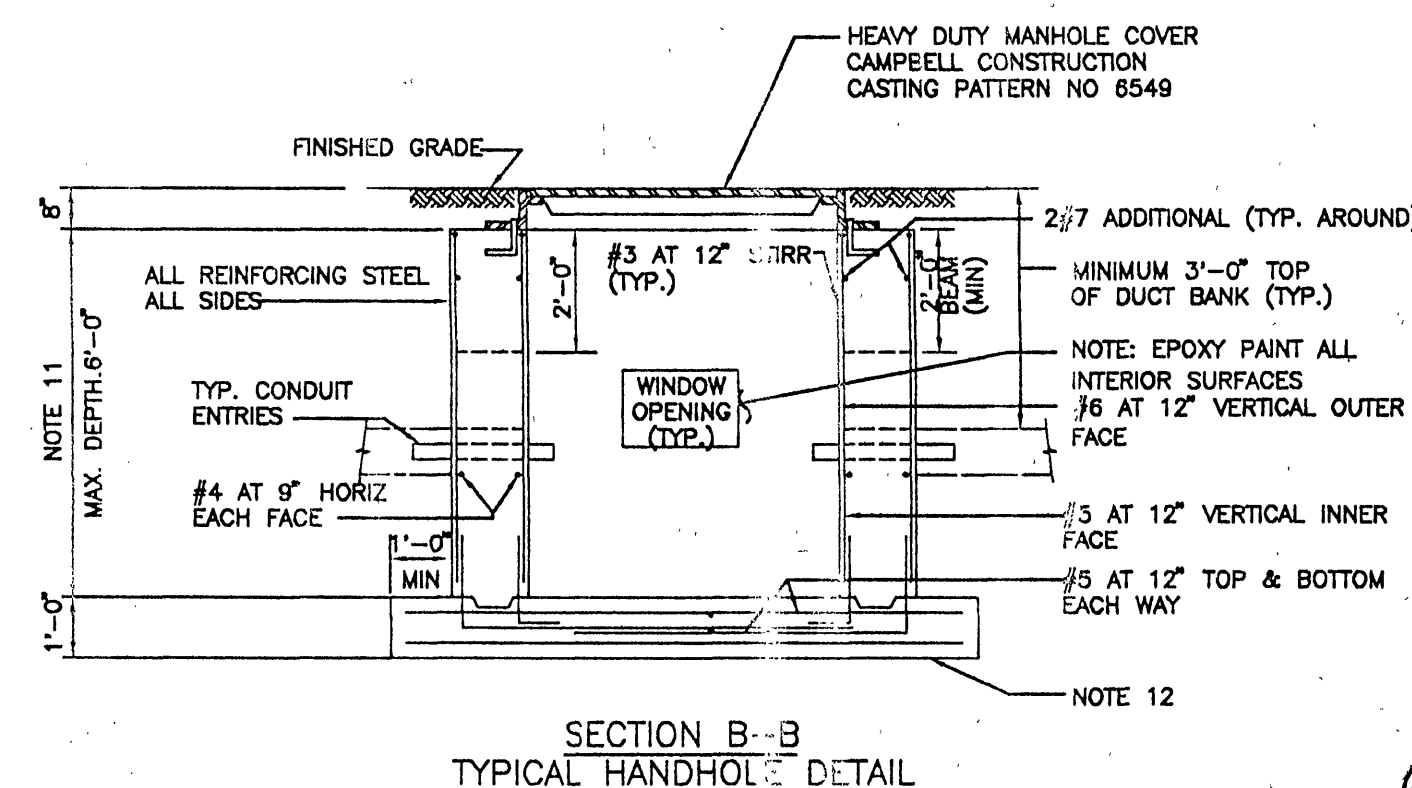
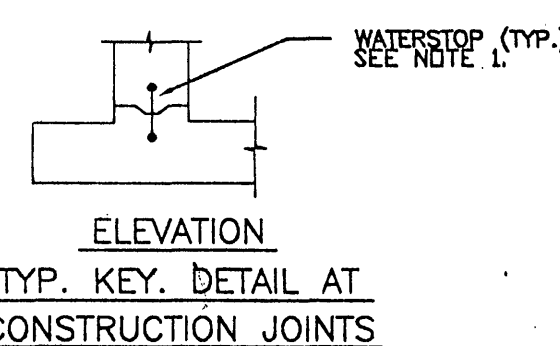
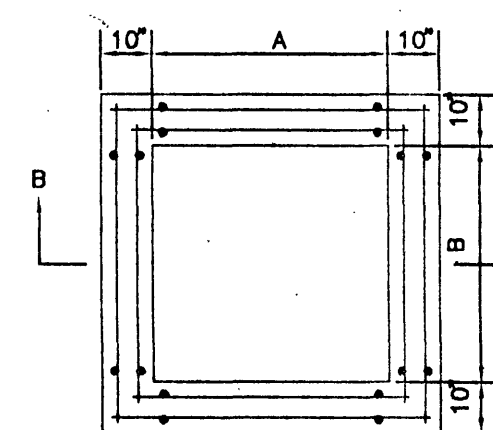
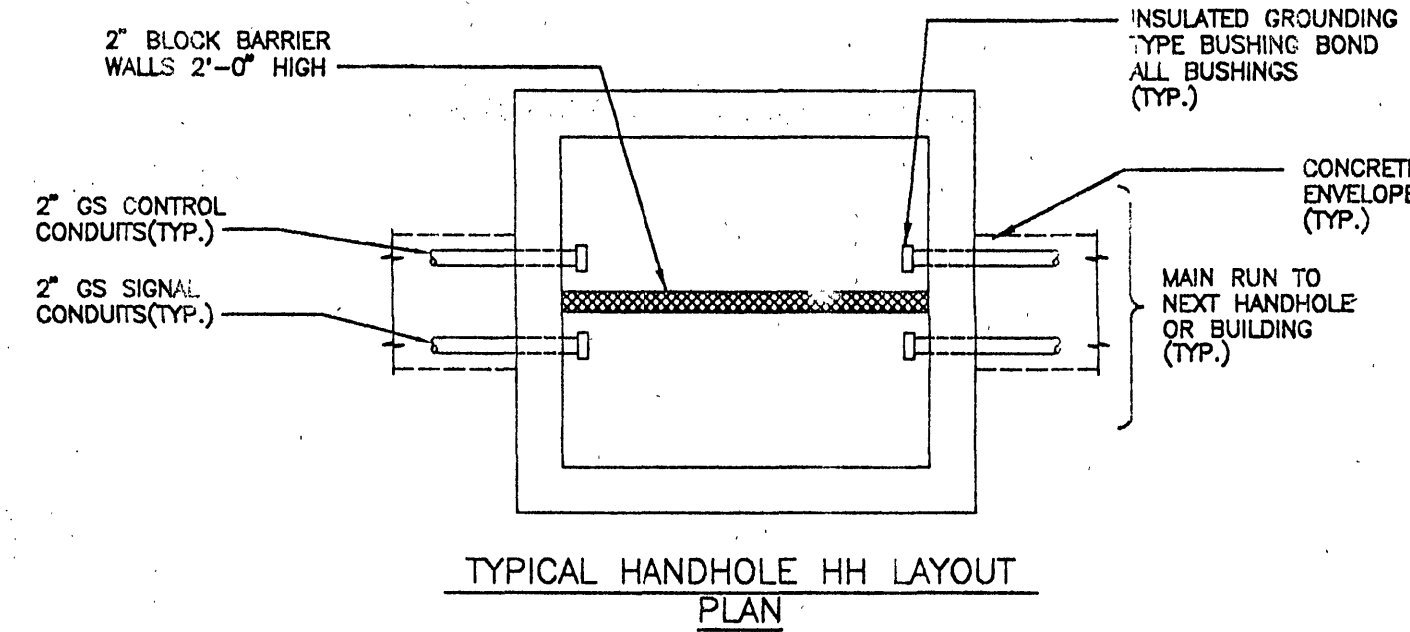
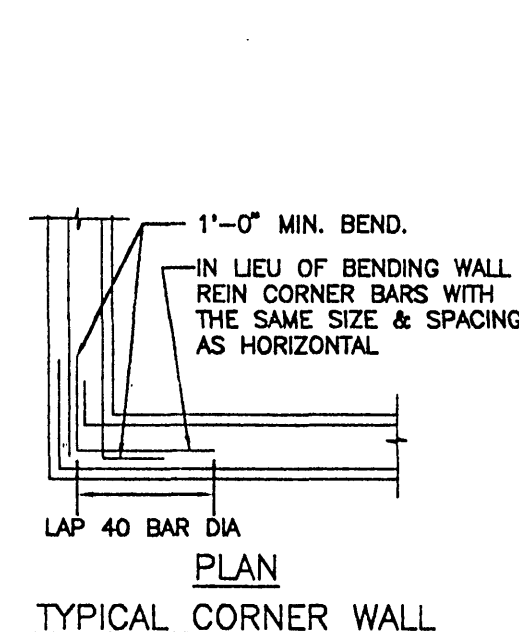


1. CONTRACTOR SHALL INCREASE SIZE OF MANHOLES IF REQUIRED BUT NOT LESS THAN AS SHOWN IN THE TABLE.
2. ALL CONCRETE STRUCTURES SHALL REST ON UNDISTURBED SOIL OF TWO TONS PER SQUARE FOOT MINIMUM BEARING CAPACITY.
3. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS AND RECOMMENDATIONS ACI-301-77 SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDING (FC-3000 PSI)
4. REINFORCING STEEL SHALL CONFORM TO ALL REQUIREMENTS FOR ASTM A-615 GRADE 60.
5. PLACE NO BACKFILL AGAINST FOUNDATIONS, POLE FOOTINGS AND MANHOLES UNTIL ALL CONCRETE HAS BEEN POURED AND CURED.
6. ALL STEEL SHALL CONFORM TO "CODE OF STANDARD PRACTICE FOR STEEL BUILDING OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION"
STEEL SHAPES SHALL CONFORM TO ASTM-A36 AND WELDING ELECTRODES TO ASTM-A233, E-60 SERIES.
7. WATERPROOFING FOR ALL STRUCTURAL WALLS AND SLABS BELOW GRADE SHALL BE PROVIDED AS REQUIRED BY THE SPECIFICATIONS.
8. ALL CABLES IN MANHOLES ARE TO BE ARC AND FIREPROOFED FOR THEIR ENTIRE EXPOSED LENGTH WITHIN THE MANHOLE.
9. MANHOLE WINDOW OPENING SIZES SHALL BE BASED ON DUCT BANK CONFIGURATIONS AS SHOWN ON DETAILLED SITE PLANS. THE LOCATION AND ELEVATION OF THE DUCT BANK ENTERING THE MANHOLE SHALL BE DETERMINED BY THE CONTRACTOR BASED ON ACTUAL FIELD CONDITIONS.
10. DIMENSION WILL VARY BASED ON ACTUAL DUCT BANK ELEVATION AND POINT OF PENETRATION INTO MANHOLE.
11. CONTRACTOR TO PROVIDE FLOTATION TYPE MANHOLES
12. AFTER INSTALLATION OF MANHOLES AND HANDHOLES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL WATER LEAKS THAT MAY OCCUR DUE TO INSTALLATION OF DUCT BANKS, WINDOW OPENINGS, AND WATER LEAKS AT CONSTRUCTION JOINTS.

ELECTRICAL MANHOLE & HANDHOLE SCHEDULE					
NO.	DIMENSIONS				REMARKS
	A	B	C	D	
HV-1	6	6	-	-	
HV-2	6	6	-	-	
HV-3	6	6	-	-	
HV-4	6	6	-	-	
LV-1	6	6	-	-	
I-1	3	3	-	-	
I-2	3	3	-	-	
I-3	3	3	-	-	
I-4	3	3	-	-	
I-5	3	3	-	-	
I-6	3	3	-	-	
I-7	3	3	-	-	



1'0"

B

1'0"

1'0"

1'0"

TYPICAL-DUCT BANK WINDOW-NOTE 9

4-#7 T. & B. 6'-0" LG.(TYP.)

12"SQ x 4"D SUMP PIT

PULLING-IN IRONS AS REQ'D

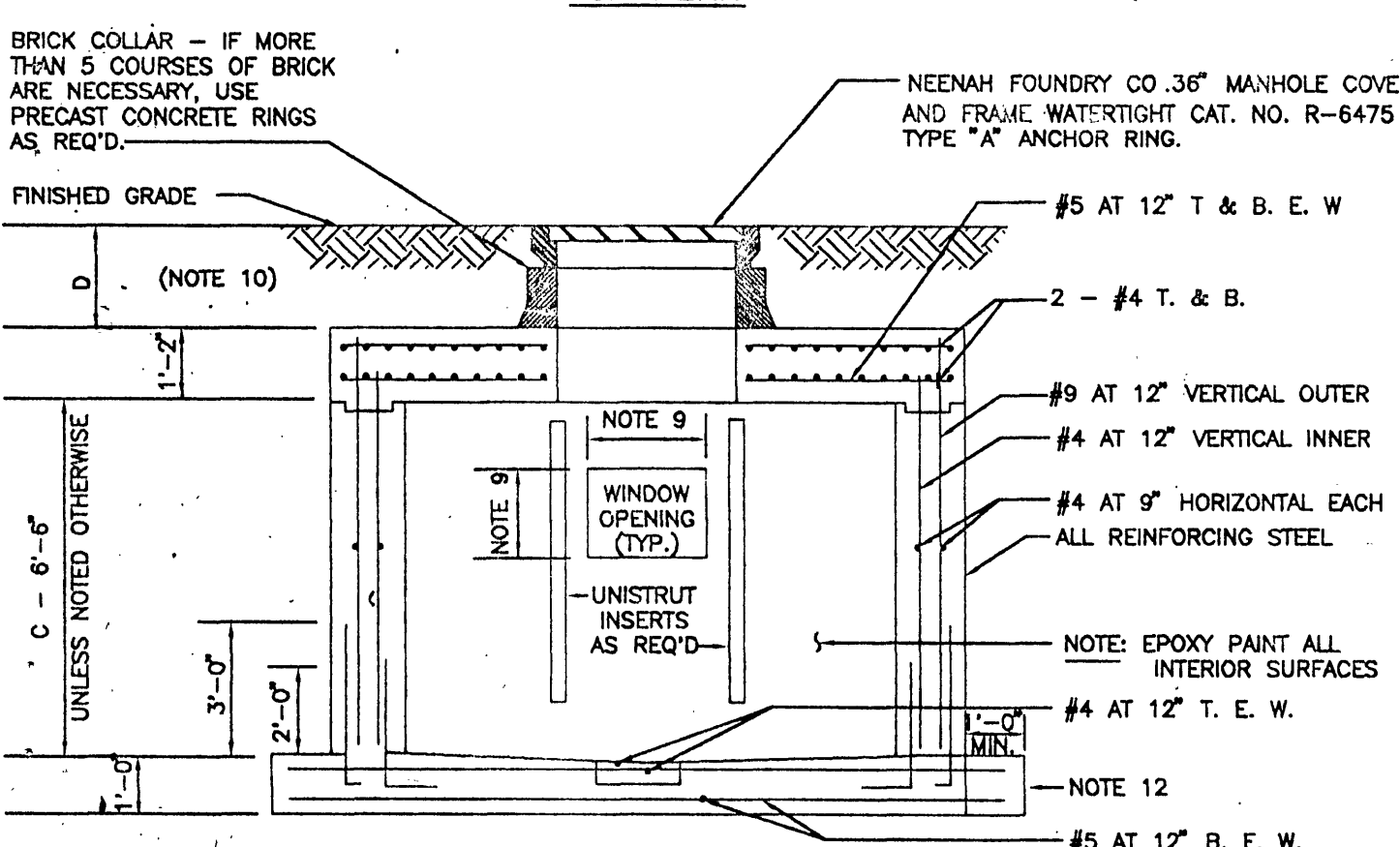
UNISTRUT CONCRETE INSERTS P3260 LOCATION AND TOTAL NUMBER AS REQ'D

MANHOLE OPENING

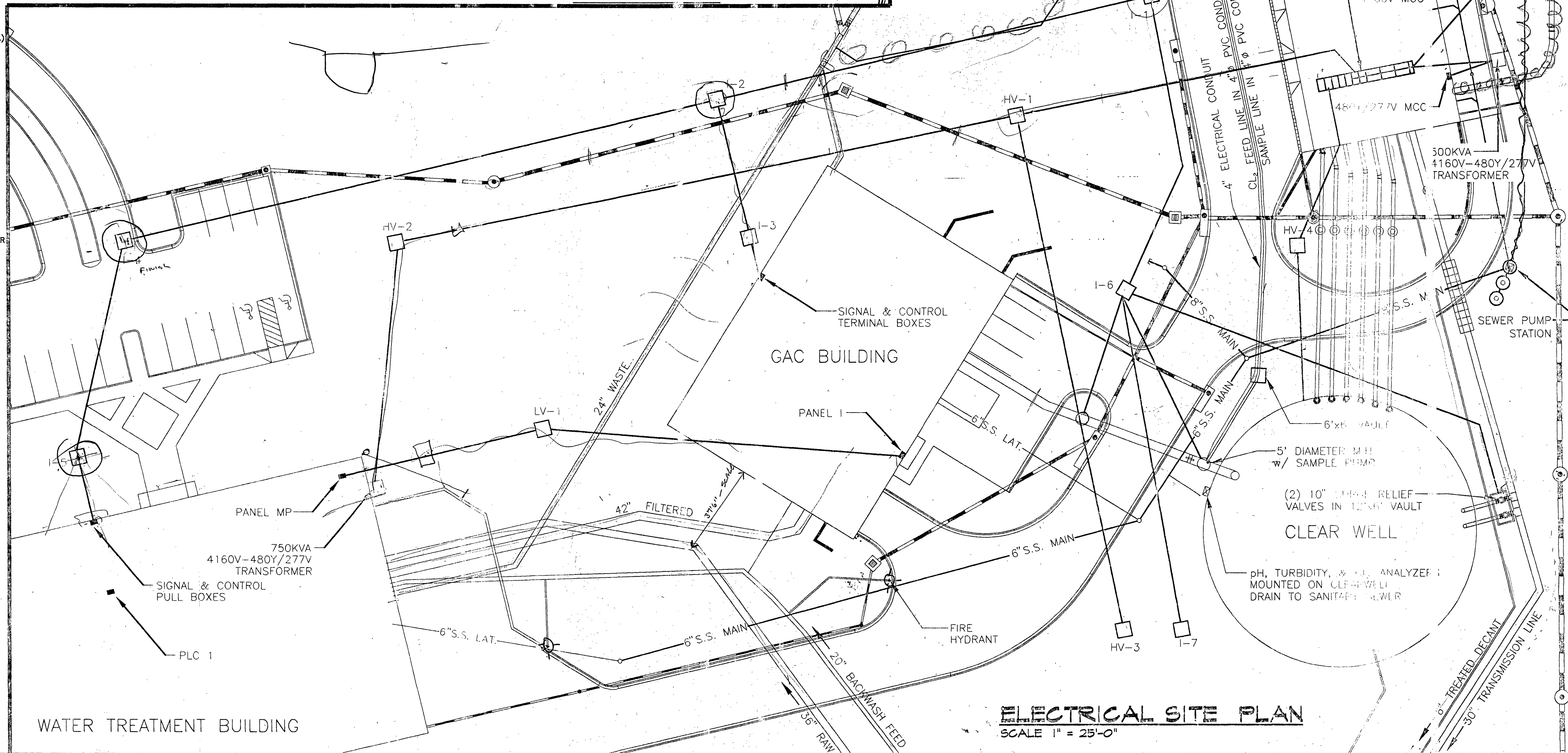
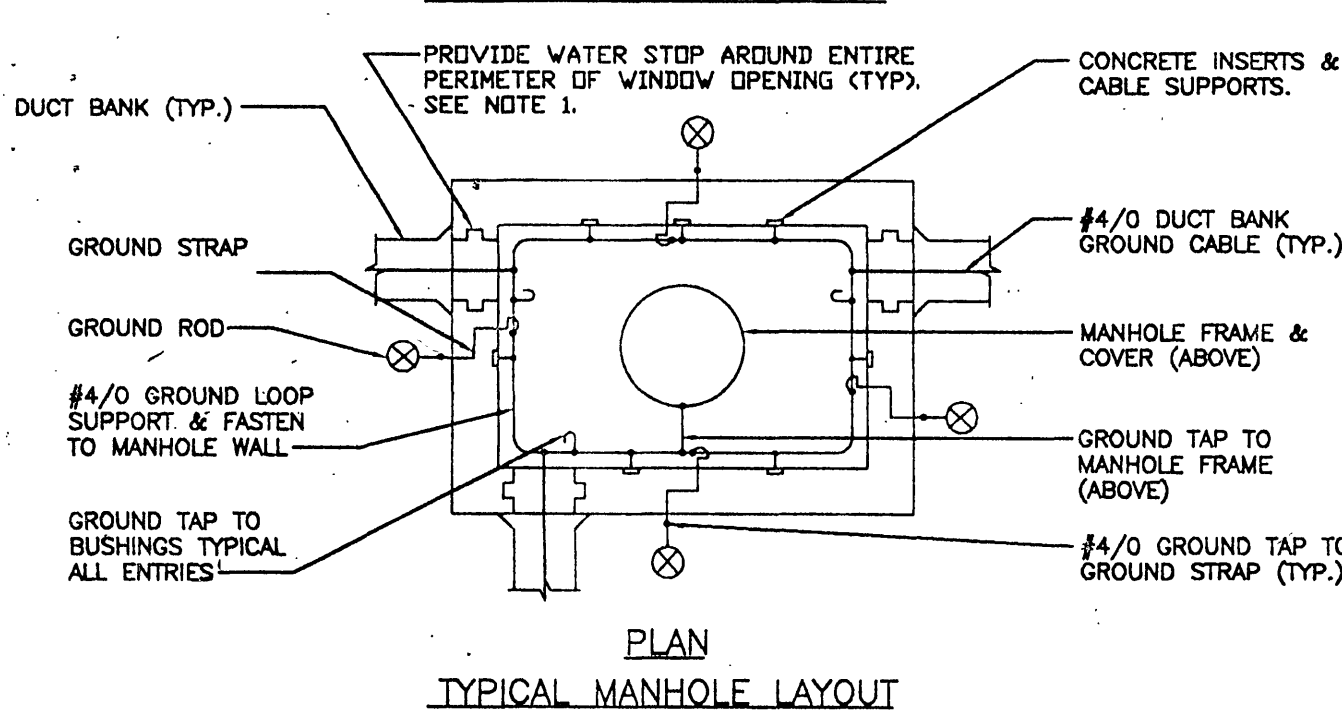
SLOPE MANHOLE FLOOR TO SUMP PIT

GROUND STRAP

TOP PLAN

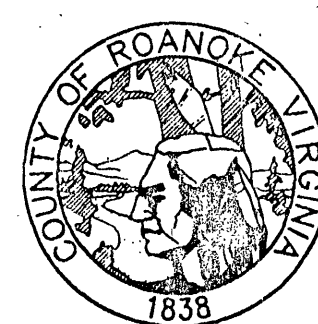


SECTION A-A
TYPICAL MANHOLE DETAIL

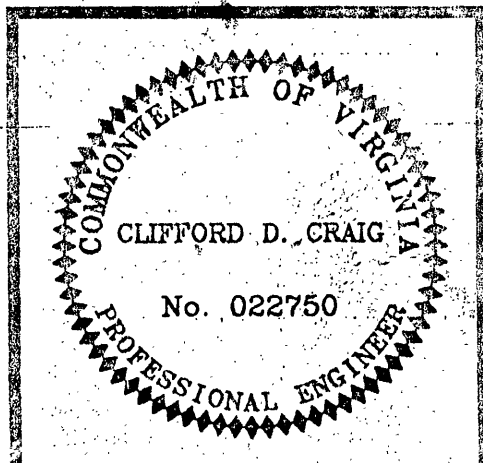
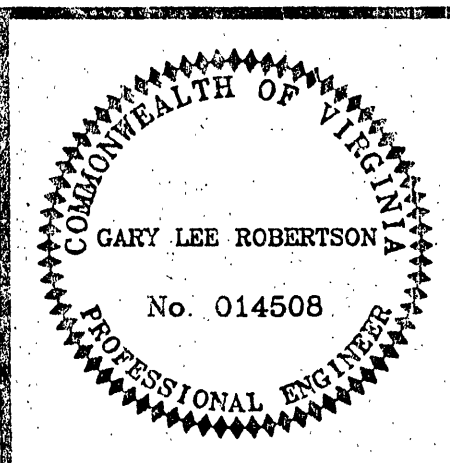


ELECTRICAL SITE PLAN

SCALE 1" = 25'-0"



ROANOKE COUNTY WATER TREATMENT FACILITY



ELECTRICAL SITE PLAN

DESIGN ENGINEER CLIFFORD D. CRAIG	COMMISSION NUMBER 1913
RCUD NUMBER WTF-1	DATE 9 SEPT. 1994

E6