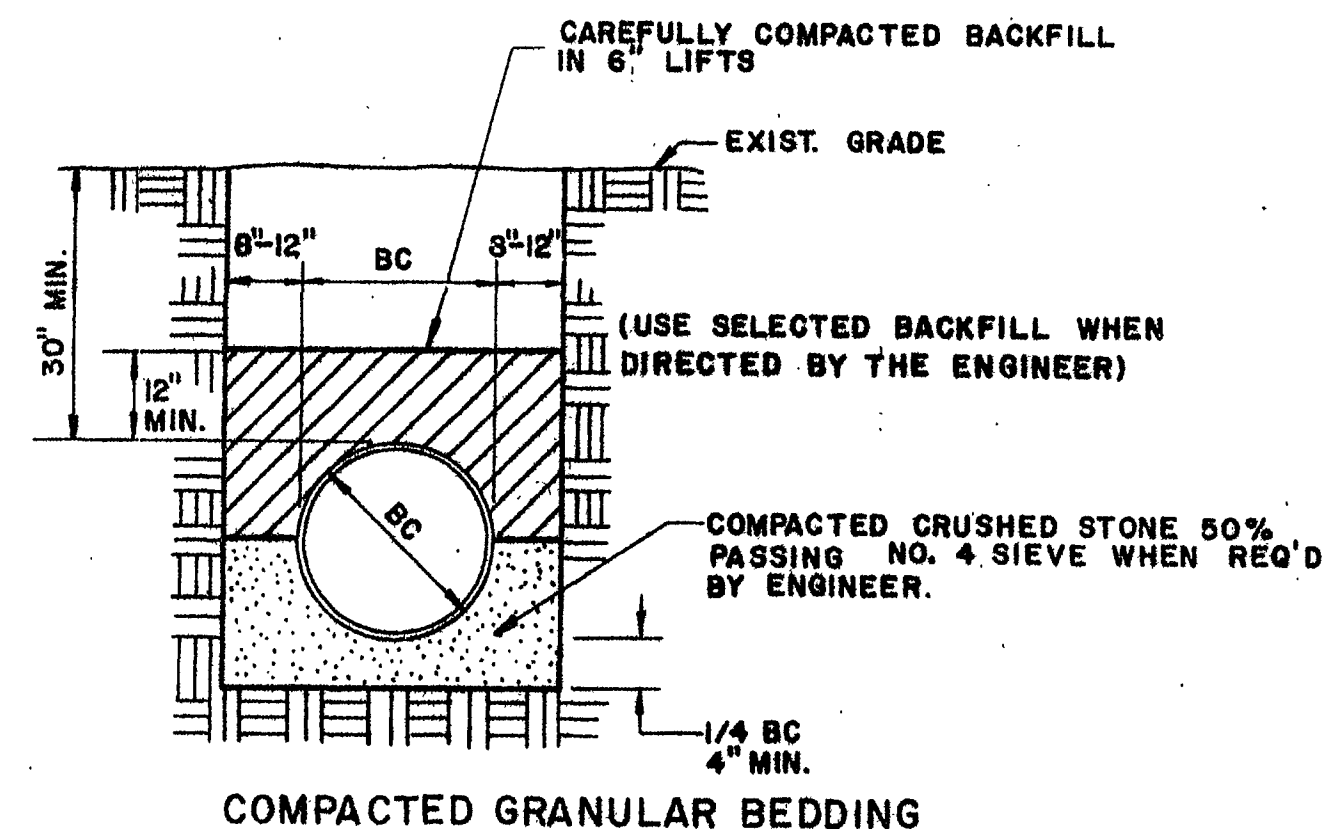
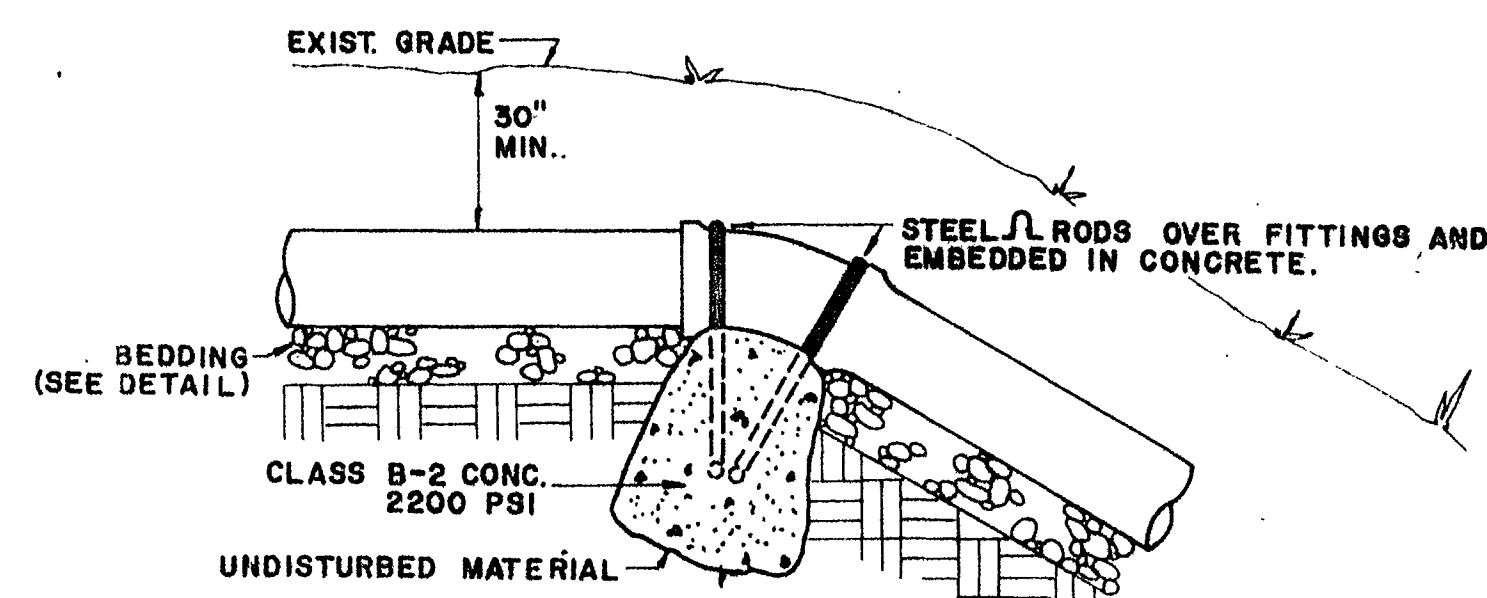




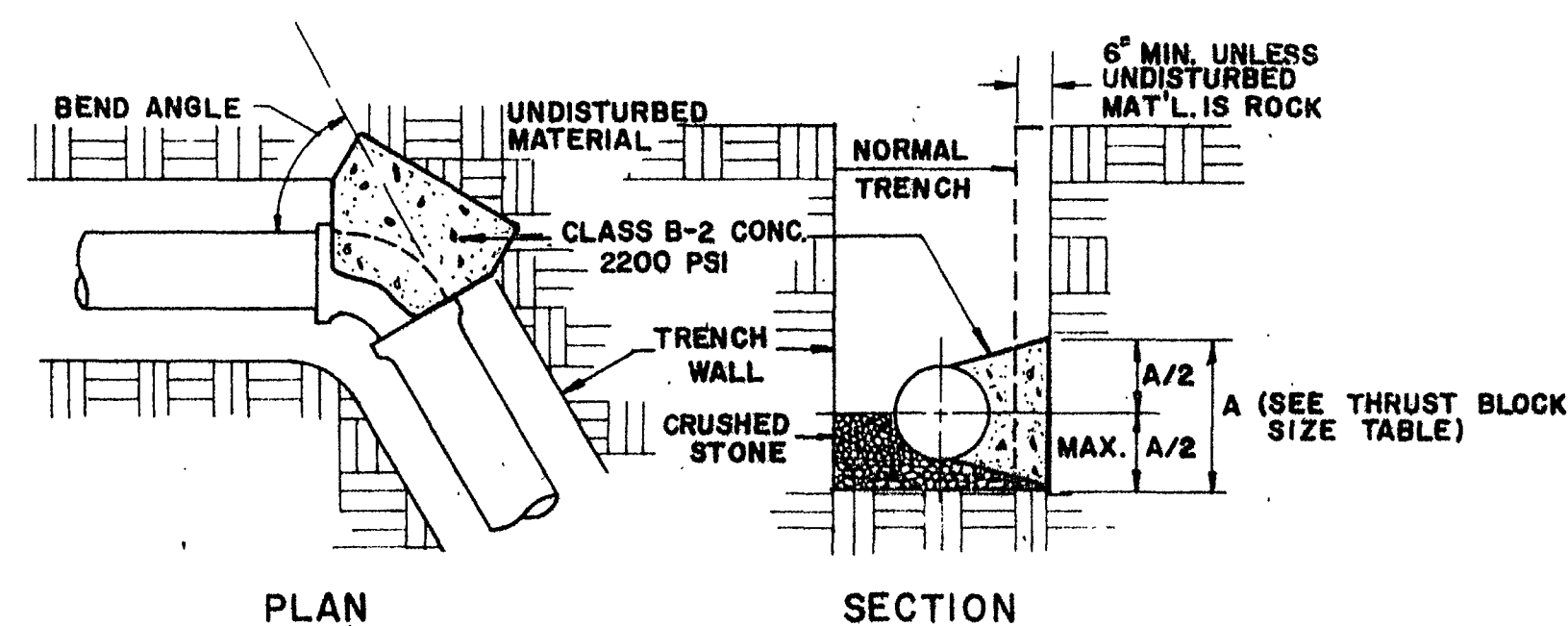
BEDDING DETAIL



FRUITS			
FITTING SIZE	ROD SIZE	NO. OF RODS	EMBEDMENT
4"-6"-8"	NO. 4	2	24"
10"-12"		"	"
FITTING SIZE	VOLUME OF THRUST BLOCK IN CUBIC YARDS		
	90°	45°	22 1/2°
4	0.25	0.15	0.1
6	0.5	0.35	0.2
8	0.9	0.65	0.5
10	1.4	1.0	0.85
12	2.0	1.4	1.0

1. KEEP CONC. CLEAR OF JOINT AND JOINT ACCESSORIES.
2. THRUST BLOCKS FOR VERTICAL UP BENDS SHALL BE THE SAME VOLUME AS FOR HORIZONTAL BENDS.

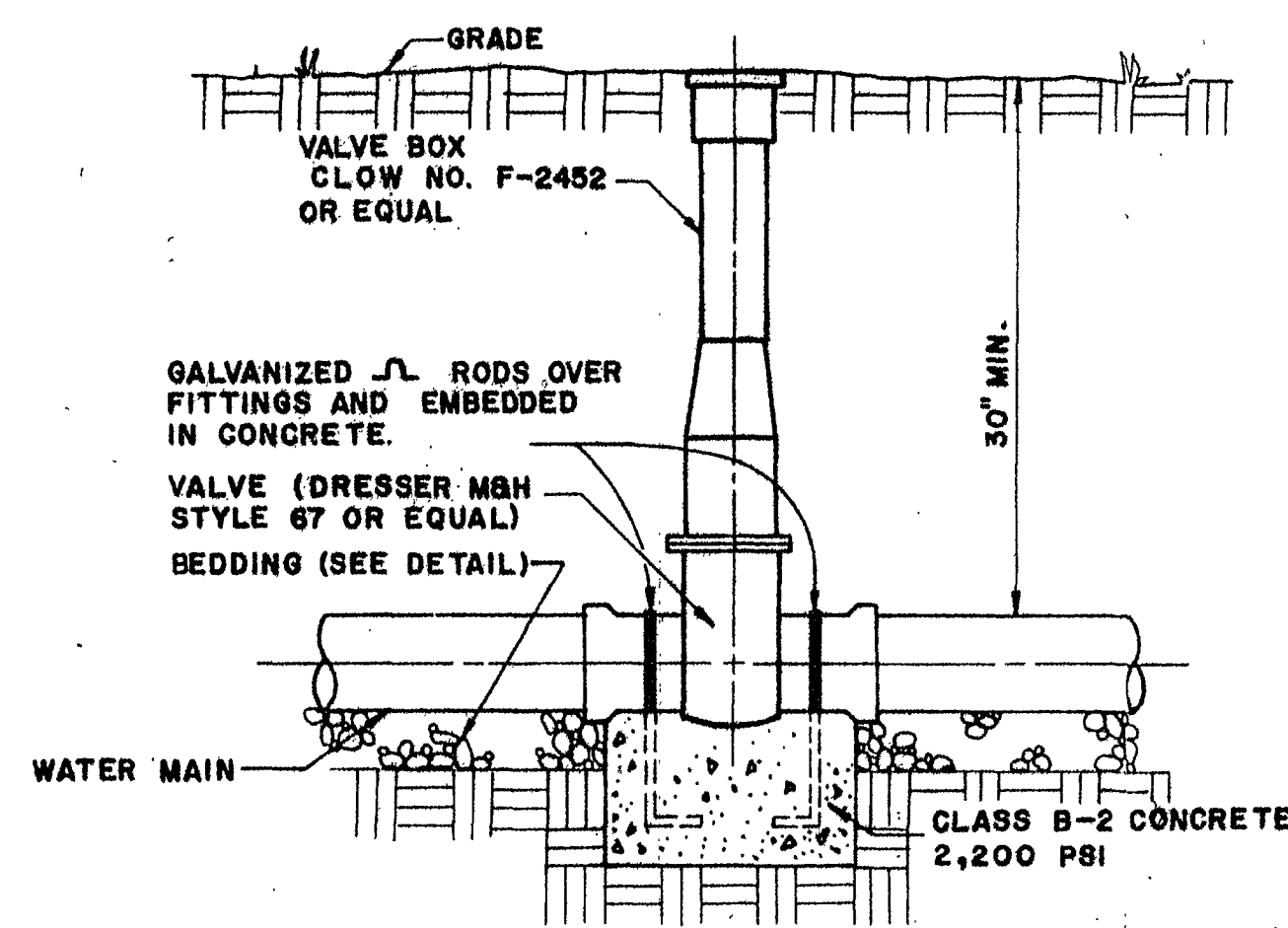
VERTICAL THRUST BLOCK DETAIL



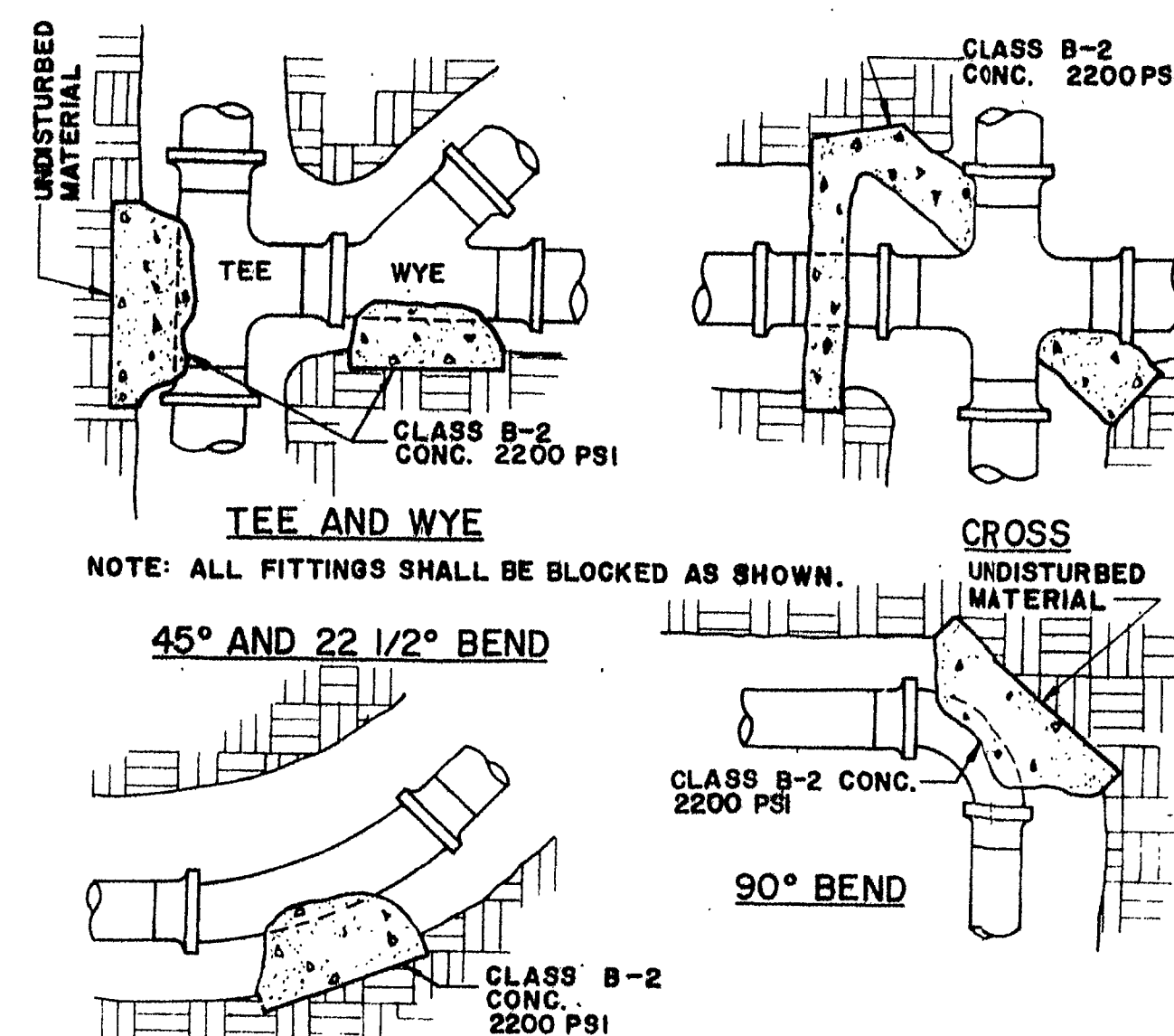
NOTES:

1. AREA OF THRUST BLOCK BASED ON 1500 P.S.F. LATERAL BEARING PRESSURE AND A TEST PRESSURE WITHIN PIPE OF 150 P.S.I., VELOCITY OF 10 F.P.S.
2. THRUST BLOCKS ARE REQUIRED AT ALL BENDS OF MORE THAN 10°.
3. BEARING SURFACE OF THRUST BLOCKS MUST BE NORMAL TO RESULTANT THRUST OF BEND AND BEAR ON SUITABLE UNDISTURBED MATERIAL.
4. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.

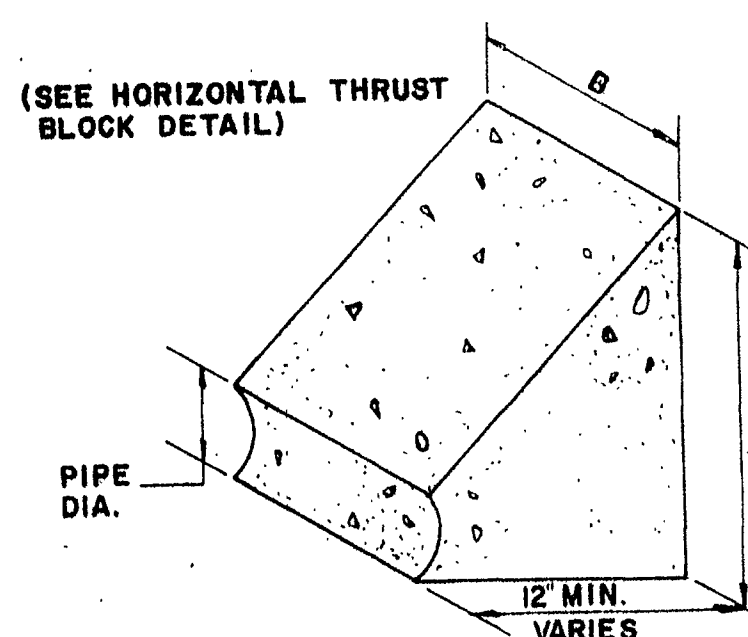
HORIZONTAL THRUST BLOCK DETAIL



TYPICAL VALVE INSTALLATION

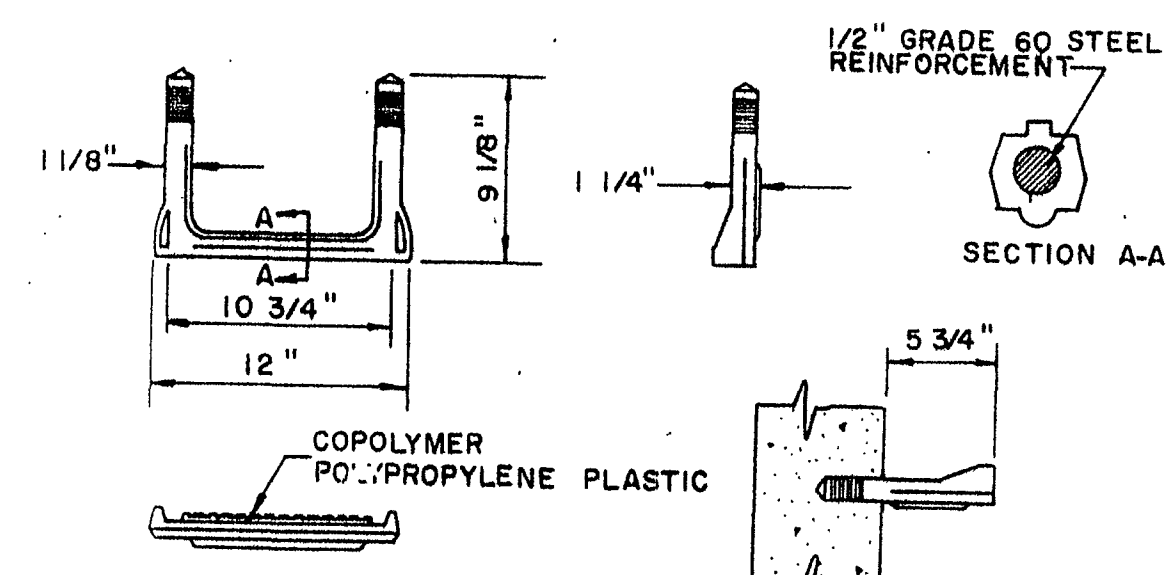


THRUST BLOCK DETAILS



PIPE DIAMETER	TEE, CROSS, 90°		45°, WYE		22 1/2°	
	A	B	A	B	A	B
4"	12"	12"	12"	12"	12"	12"
6"	15"	24"	18"	18"	18"	18"
8"	18"	30"	24"	24"	24"	24"
10"	24"	36"	30"	30"	30"	30"
12"	30"	42"	36"	36"	36"	36"

THRUST BLOCK SIZES



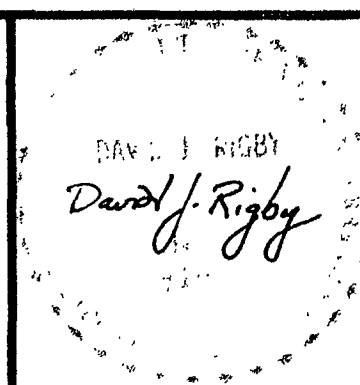
MANHOLE STEP DETAIL

"AS-BUILT"

Designed: DJR
 Drafted: CFA
 Checked: MPC
 Approved: DJR

Clean Water Engineers, Inc.
 Fincastle, Virginia

DETAILS
 TINKERVIEW WATER COMPANY
 BOTETOURT COUNTY, VIRGINIA



Sheet: 3 of 3
 Scale: NONE
 Date: APRIL, 1985
 Project: 8502

FOR 230045 KENNEDY - 10000 CONSTRUCTION