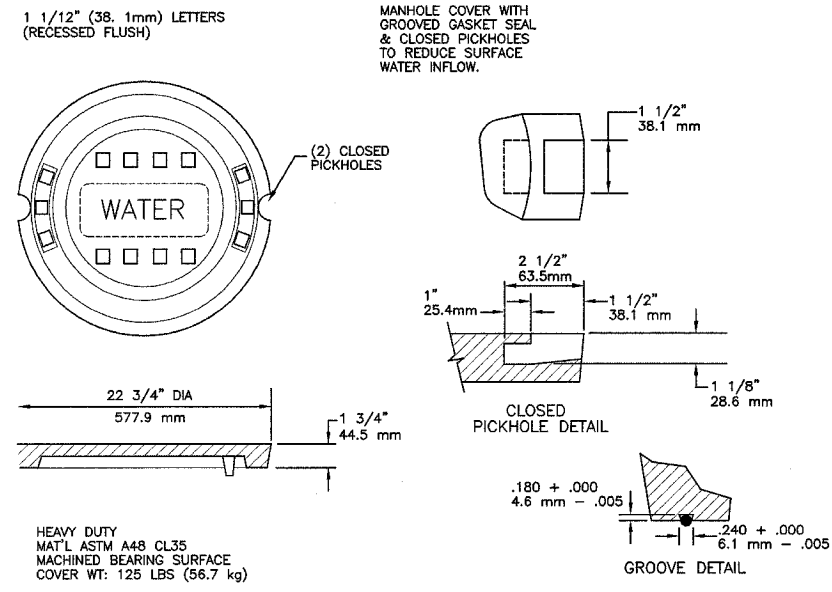


P. A. L. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2001-167R	COOK	1207	325
STA. 7+250		TO STA. 7+550		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



MANHOLE COVER
E.J.I.W. 1022Z3

HEAVY DUTY
MAT'L ASTM A48 CL35
MACHINED BEARING SURFACE
COVER WT: 125 LBS (56.7 kg)

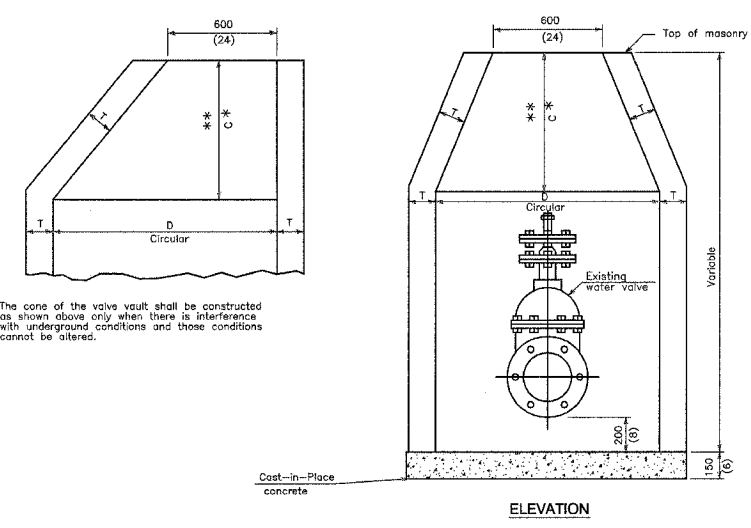
JOINT RESTRAINT TABLE - Unless additional pipe restraint is shown on the Plans, the restrained length measured from the fitting joint to the end of the last restrained joint pipe for pipe fittings shall equal or exceed those tabulated lengths - METERS

Pipe Size (mm)	FITTINGS				Dead Ends
	Tee * Branch	90 Elbow	45 Elbow	22-1/2 Elbow	
100	3	3	2	1	5
150	5	4	3	1	7
200	7	5	3	2	9
250	9	7	3	2	11
300	11	8	3	2	12
350	13	9	4	2	13
400	15	9	4	2	15
450	16	11	5	2	16
500	18	12	5	2	20
600	32	22	9	3	32
750	38	25	12	3	38
900	45	30	13	3	45

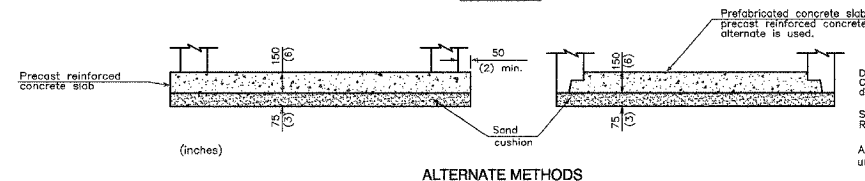
Test Pressure on sizes 500mm and smaller based on 100 psi.
Test Pressure on sizes 600mm and larger based on 150 psi.
Increase all lengths in Table by 75% for use on polyethylene wrapped pipe.
*One full length (5.5M) of pipe on both sides of branch to be restrained.

DUCTILE IRON JOINT RESTRAINT TABLE

NOTE:
FOR BIDDING PURPOSES ONLY
CONTRACTOR TO SUBMIT DESIGN
CALCULATIONS PRIOR TO CONSTRUCTION



ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
Precast Reinforced Concrete Section	1.2 m (4'-0")	750 (30)	100 (4)
	1.5 m (5'-0")	750 (30)	125 (5)
	2.1 m (7'-0")	1,115 m (3'-9")	200 (8)



VALVE VAULT TYPE A

*** GENERAL NOTES**
Dimension "C" for Precast Reinforced Concrete Section may vary from the dimension given to plus 150 mm (6").
See DETAIL 602601 for optional Precast Reinforced Concrete Flat Top Slab.
All dimensions are in millimeters unless otherwise shown.

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

James P. Prinz
9-7-05



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: VERT. N/A
HORIZ. N/A
DATE 2/3/05

DRAWN BY JM
CHECKED BY JSP