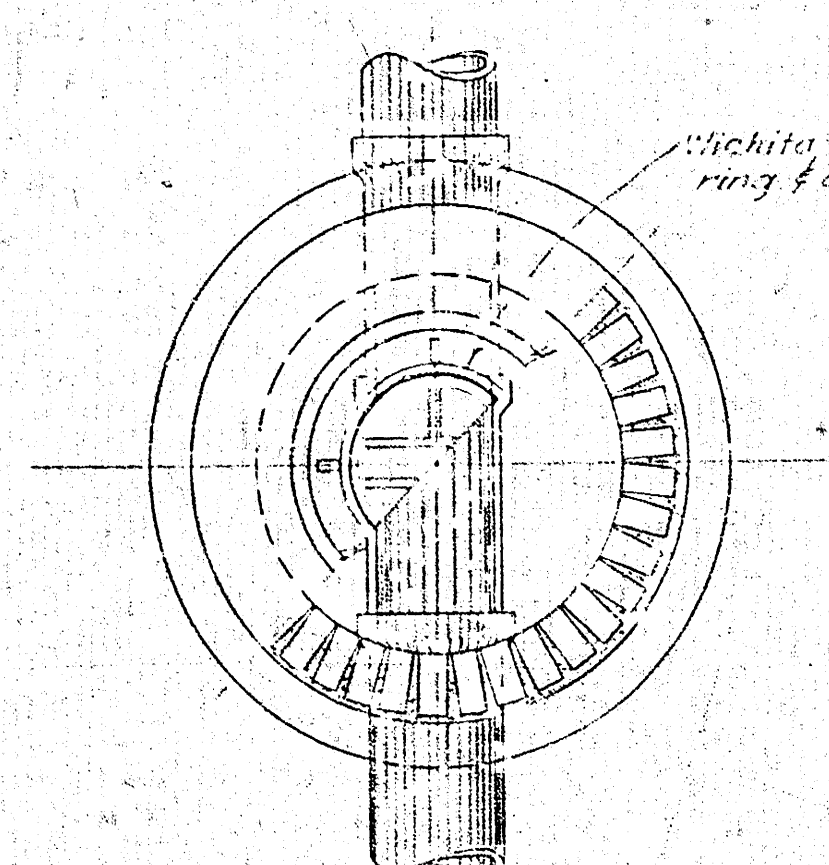
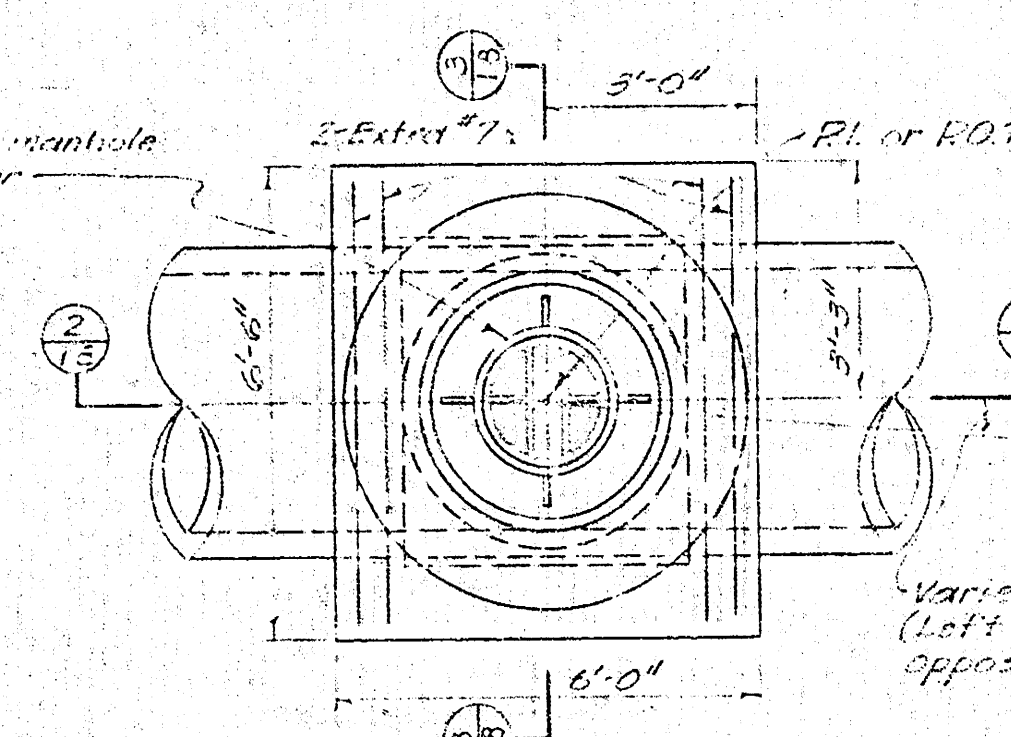
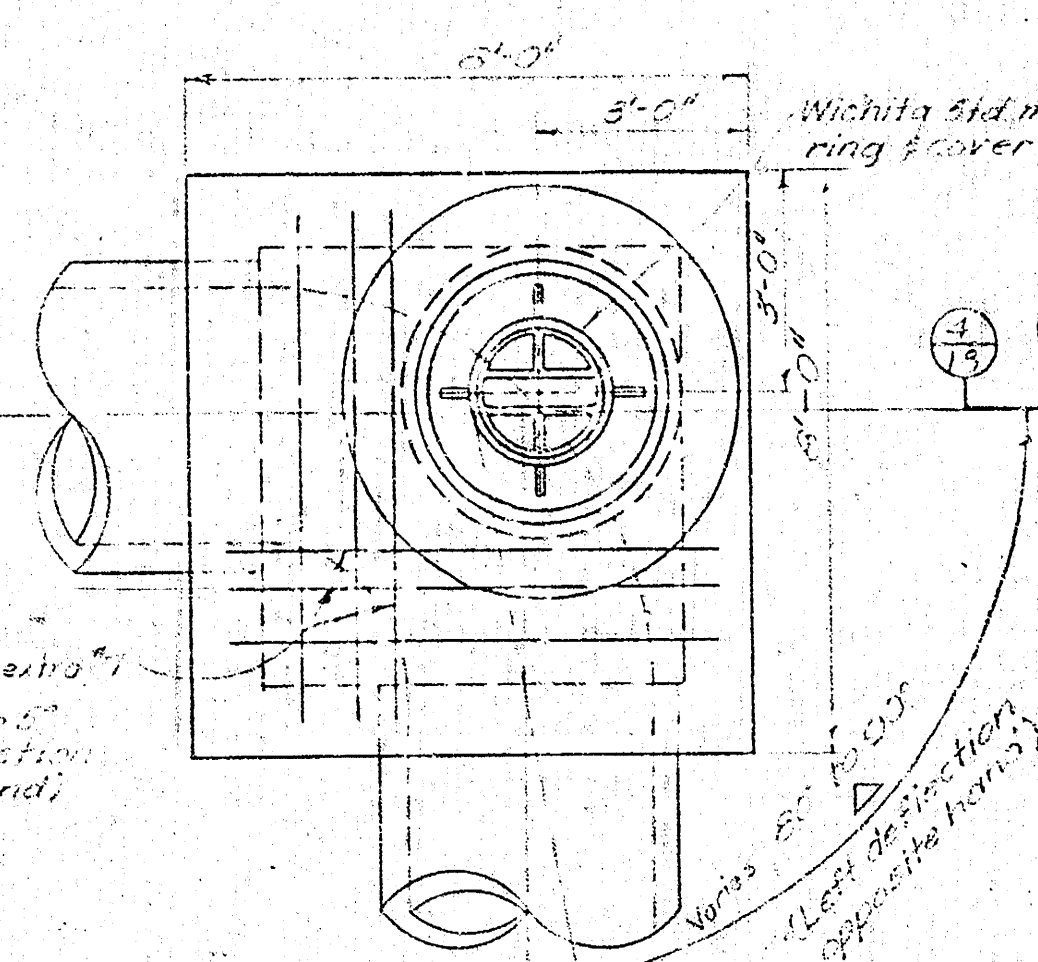




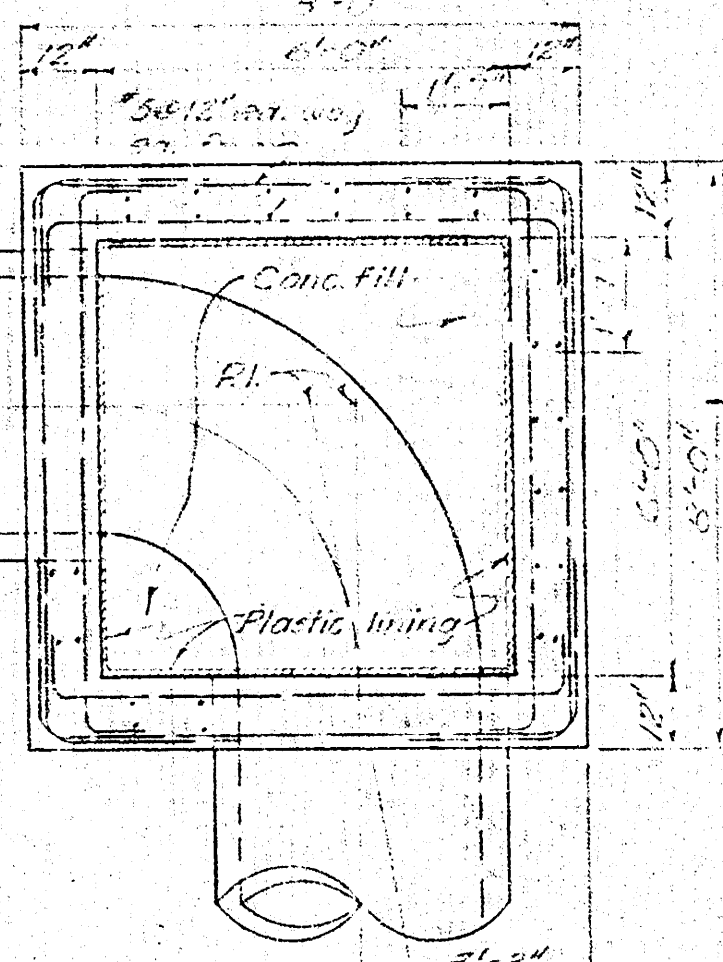
PLAN  
STANDARD BRICK MANHOLE  
No Scale



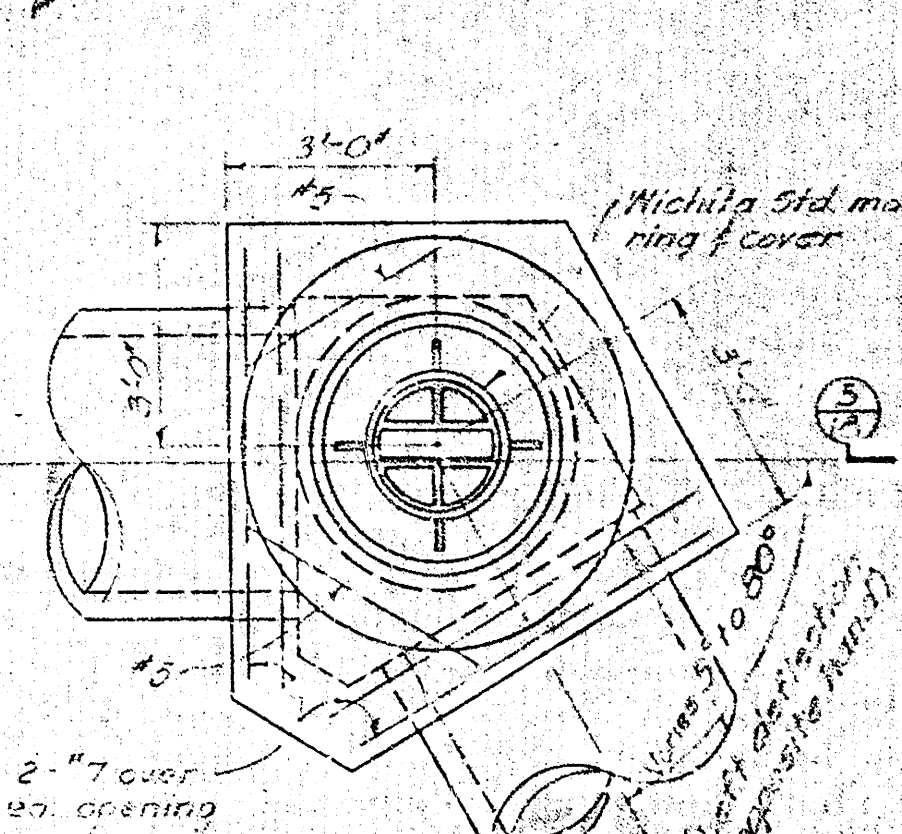
PLAN  
MANHOLE FOR 42" RCP  
0° to 5° DEFLECTION  
Scale: 3/8" = 1'-0"



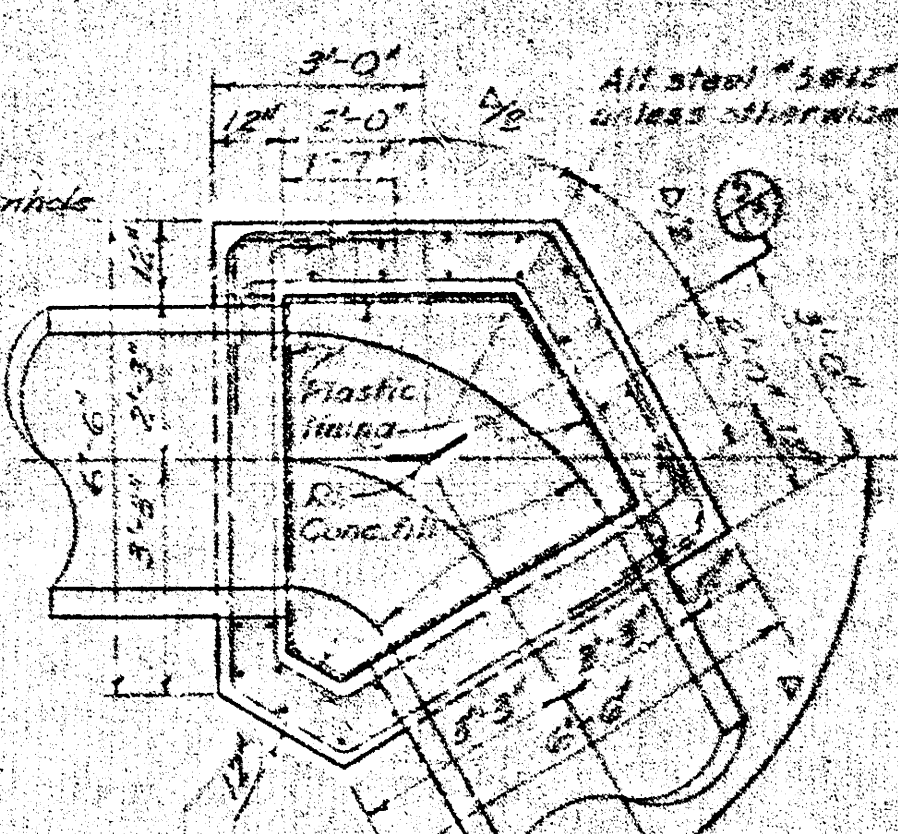
PLAN  
MANHOLE FOR 42" RCP  
80° to 90° DEFLECTION  
Scale: 3/8" = 1'-0"



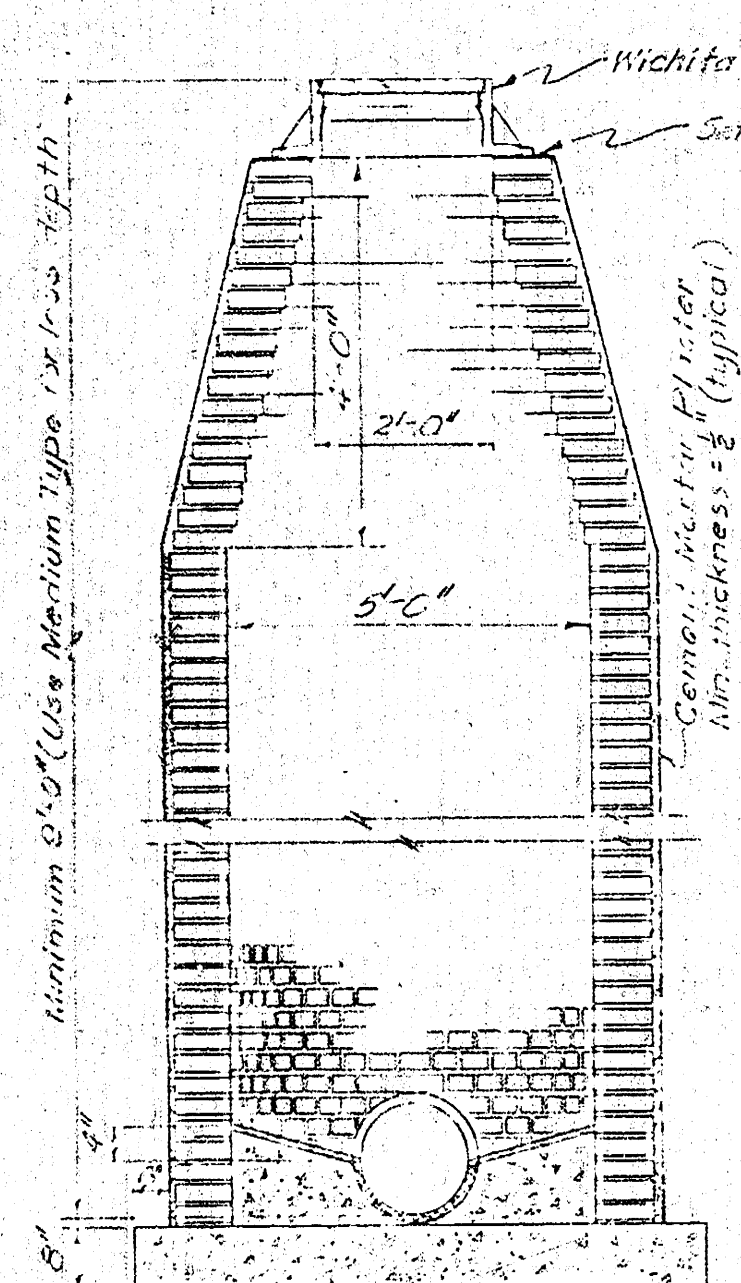
SECTIONAL PLAN  
MANHOLE FOR 42" RCP  
80° to 90° DEFLECTION  
Scale: 3/8" = 1'-0"



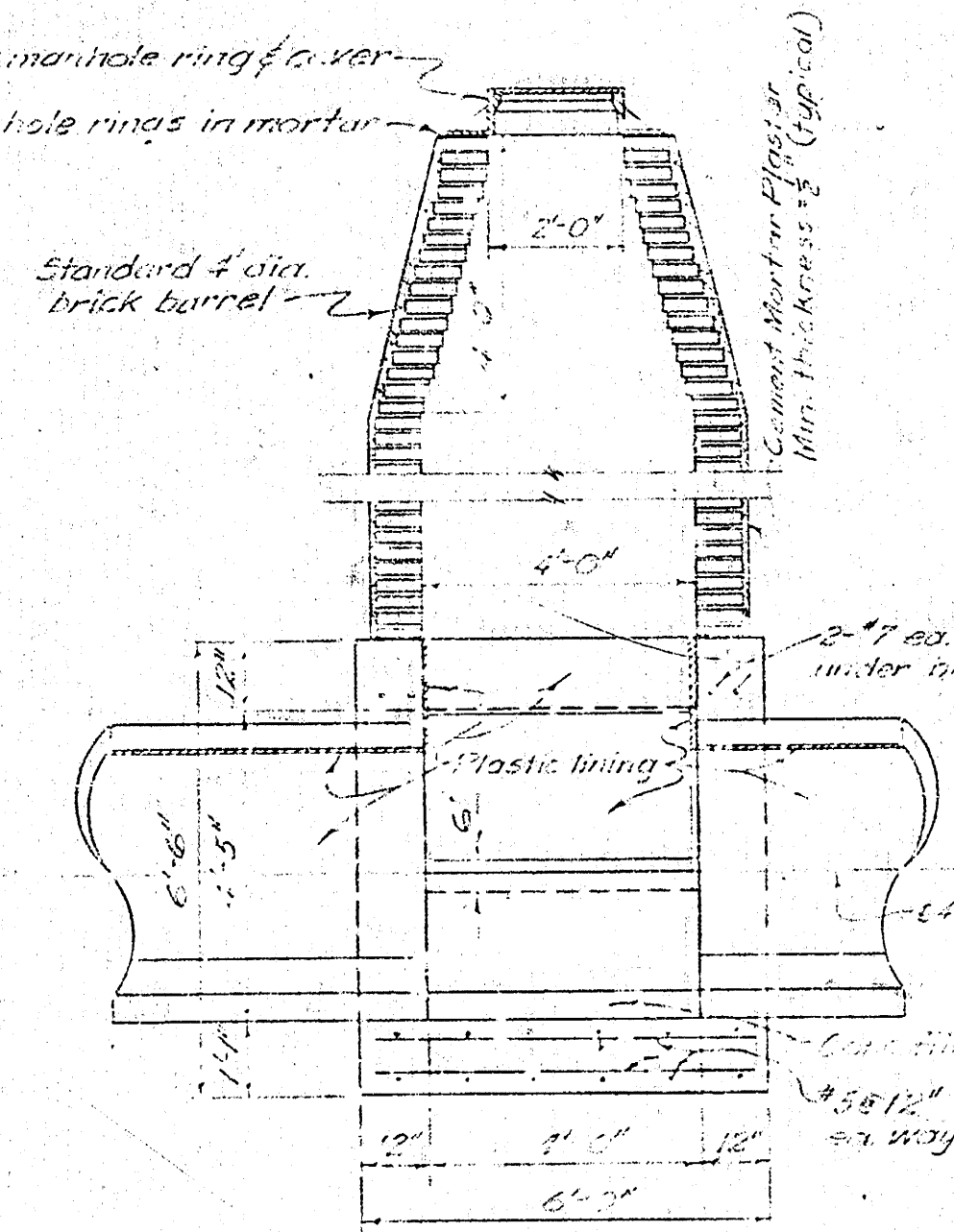
PLAN  
MANHOLE FOR 42" RCP  
5° to 60° DEFLECTION  
Scale: 3/8" = 1'-0"



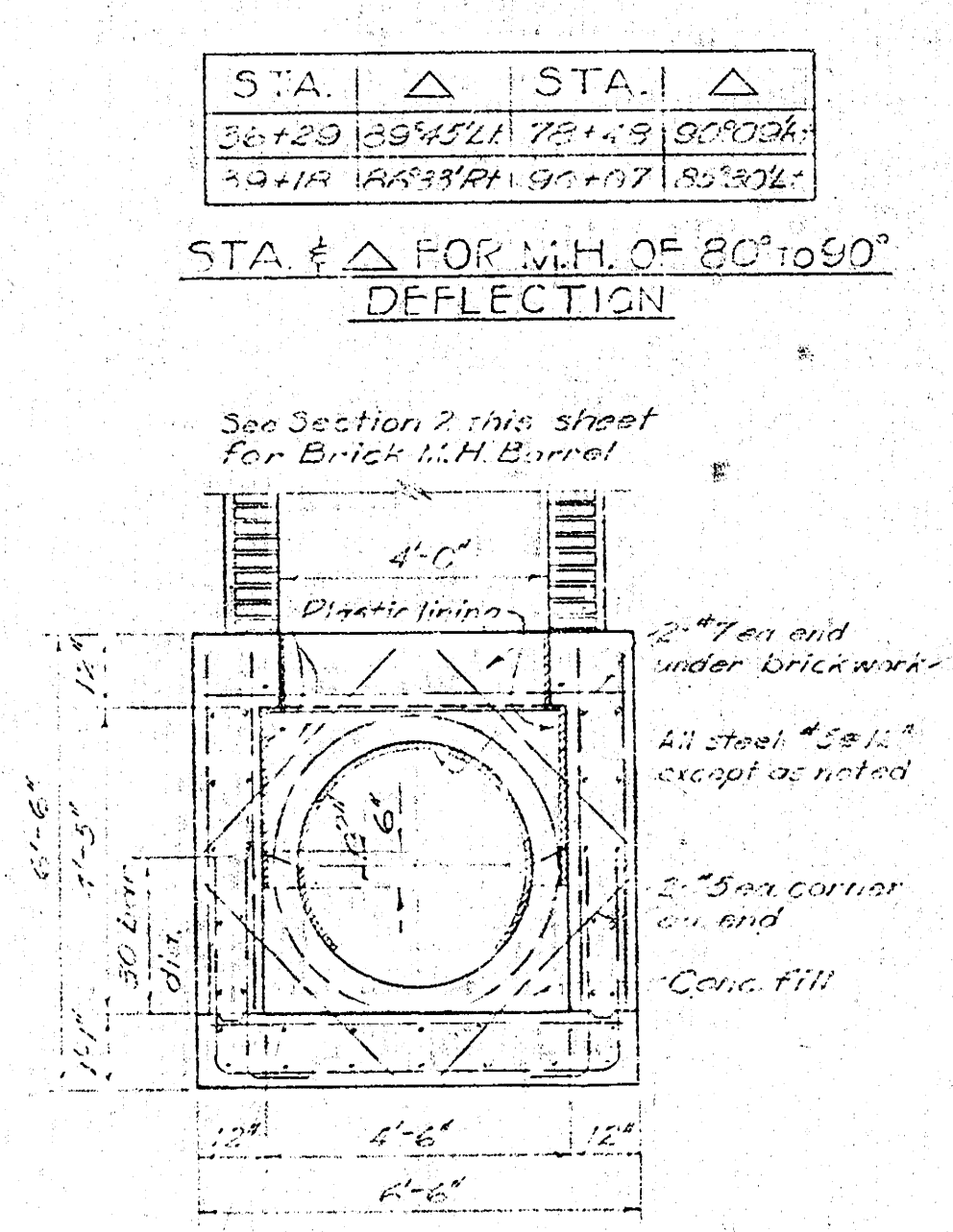
SECTIONAL PLAN  
MANHOLE FOR 42" RCP  
5° to 60° DEFLECTION  
Scale: 3/8" = 1'-0"



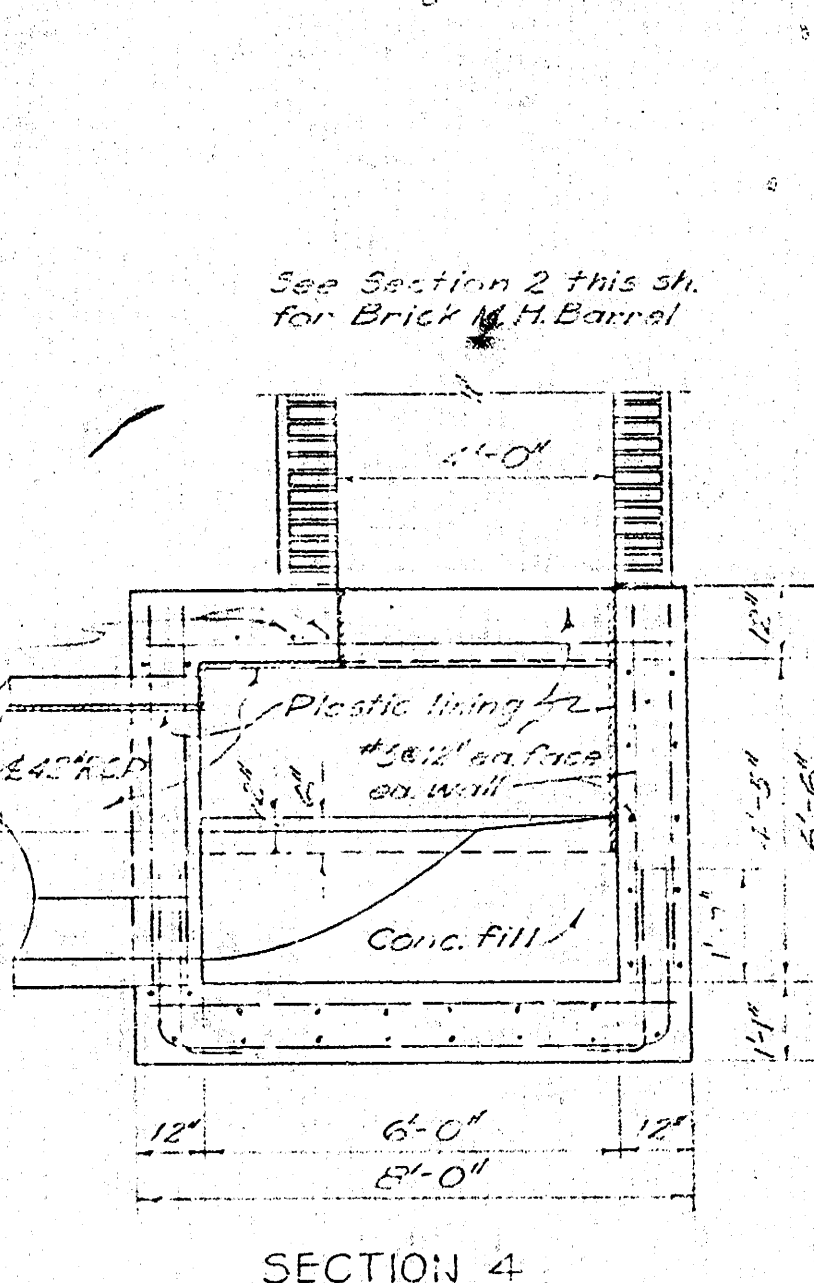
SECTION  
STANDARD BRICK MANHOLE  
No Scale



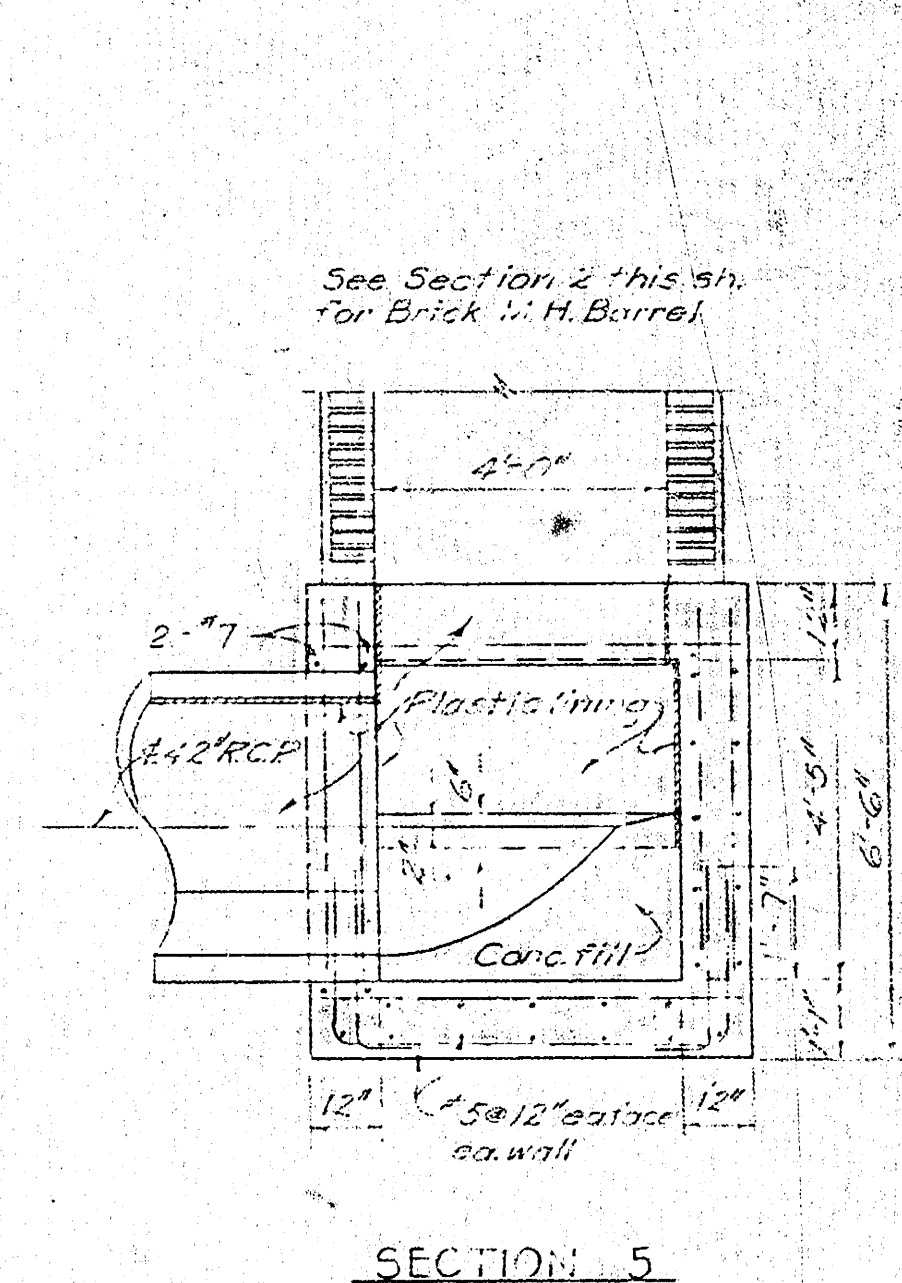
SECTION 2  
MANHOLE FOR 42" RCP  
0° to 5° DEFLECTION  
Scale: 3/8" = 1'-0"  
See This Sheet



SECTION 3  
MANHOLE FOR 42" RCP  
0° to 5° DEFLECTION  
Scale: 3/8" = 1'-0"  
See This Sheet



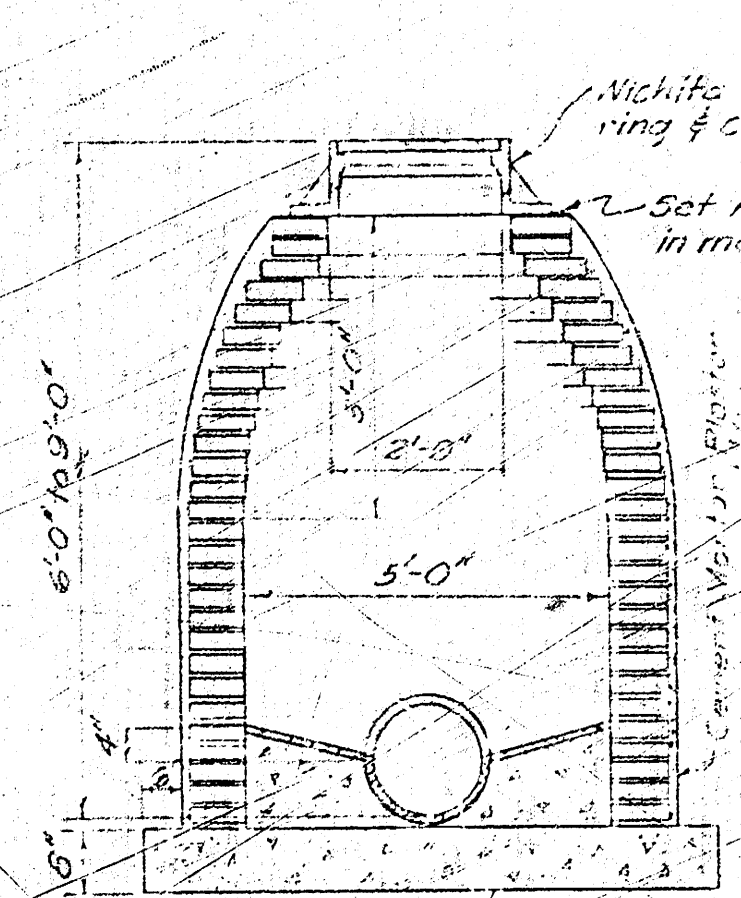
SECTION 4  
MANHOLE FOR 42" RCP  
80° to 90° DEFLECTION  
Scale: 3/8" = 1'-0"  
See This Sheet



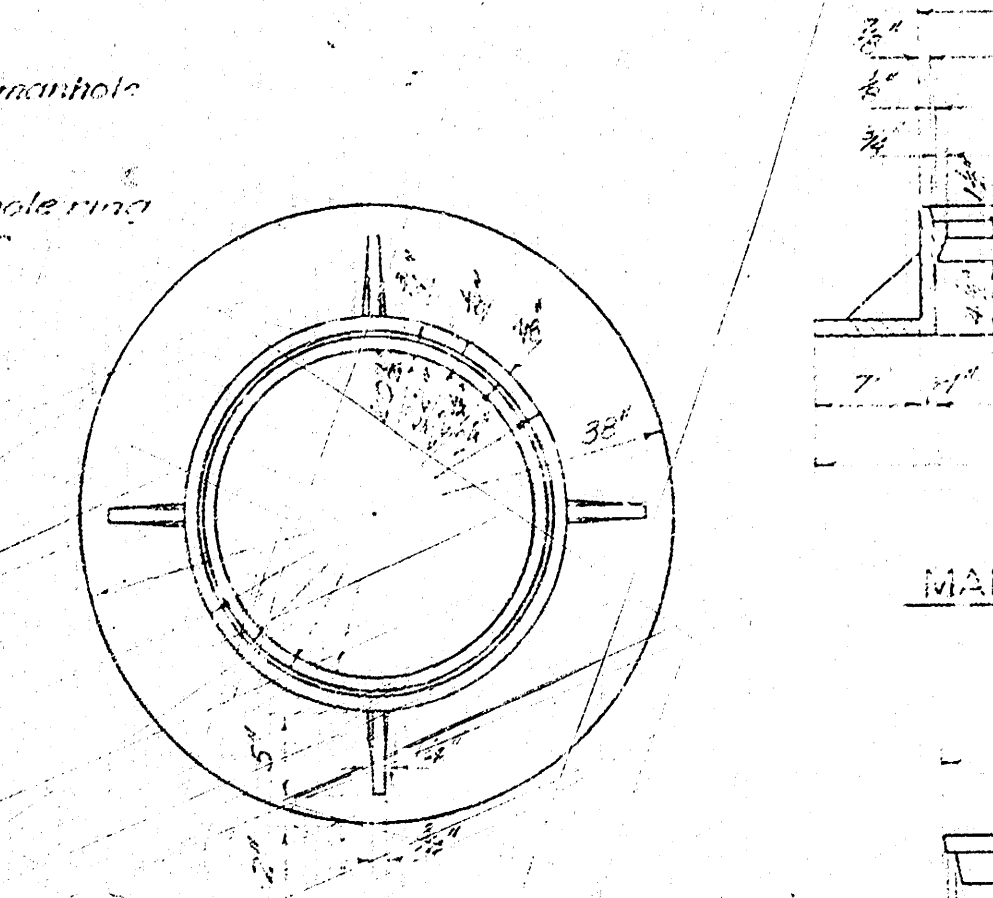
SECTION 5  
MANHOLE FOR 42" RCP  
5° to 60° DEFLECTION  
Scale: 3/8" = 1'-0"  
See This Sheet

| STA.  | Δ         | STA.   | Δ         | STA.   | Δ         |
|-------|-----------|--------|-----------|--------|-----------|
| 15+50 | 27°22'14" | 66+20  | 19°20'14" | 129+46 | 17°02'14" |
| 16+00 | 17°32'14" | 67+72  | 36°32'14" | 130+78 | 17°12'14" |
| 17+80 | 57°19'14" | 102+52 | 19°48'14" | 141+11 | 27°17'14" |
| 20+30 | 46°53'14" | 112+20 | 12°17'14" | 152+74 | 27°18'14" |
| 25+30 | 22°17'14" | 121+06 | 18°19'14" | 163+72 | 27°17'14" |
| 27+70 | 53°27'14" | 131+24 | 10°11'14" | 174+31 | 27°17'14" |
| 29+13 | 34°27'14" | 139+63 | 57°29'14" | 181+22 | 17°15'14" |
| 29+58 | 40°00'14" | 148+06 | 57°49'14" | 191+11 | 17°21'14" |
| 33+90 | 28°37'14" | 153+53 | 27°15'14" | 201+11 | 29°17'14" |

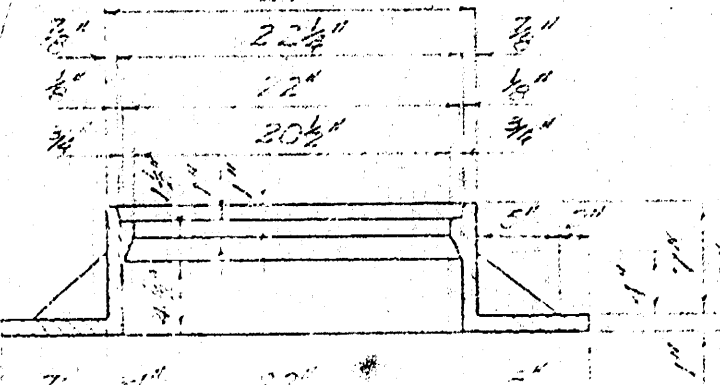
STA. Δ FOR M.H.'S IN 42" RCP  
5° to 60° DEFLECTION



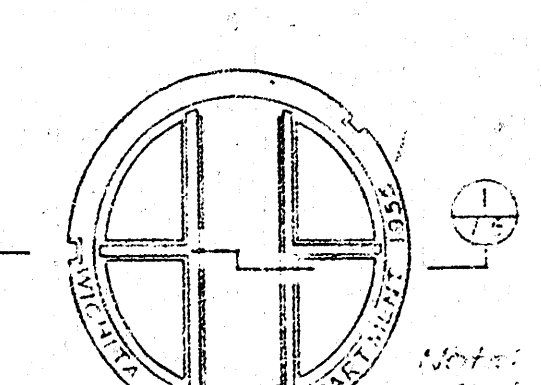
SECTION  
STANDARD BRICK MANHOLE  
FOR MEDIUM DEPTH  
No Scale



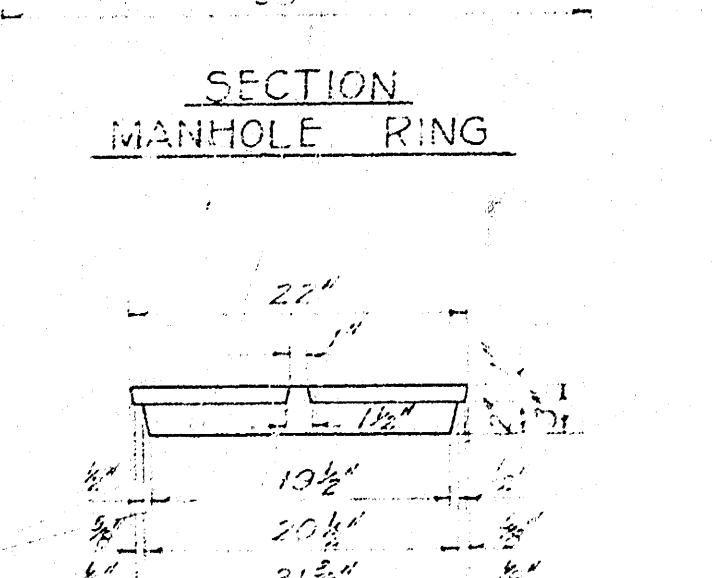
PLAN  
MANHOLE RING



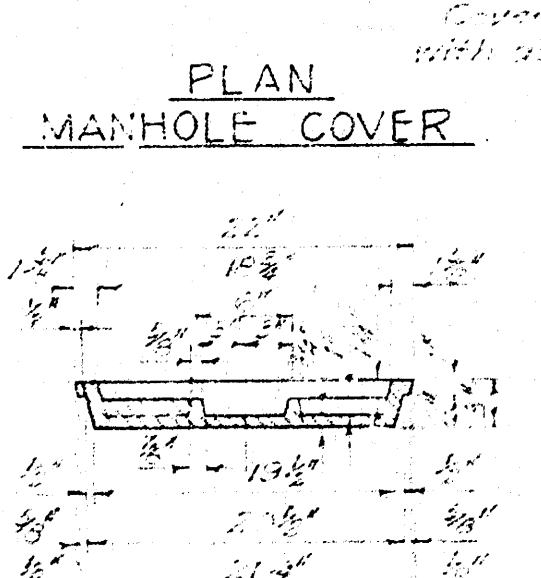
SECTION  
MANHOLE COVER



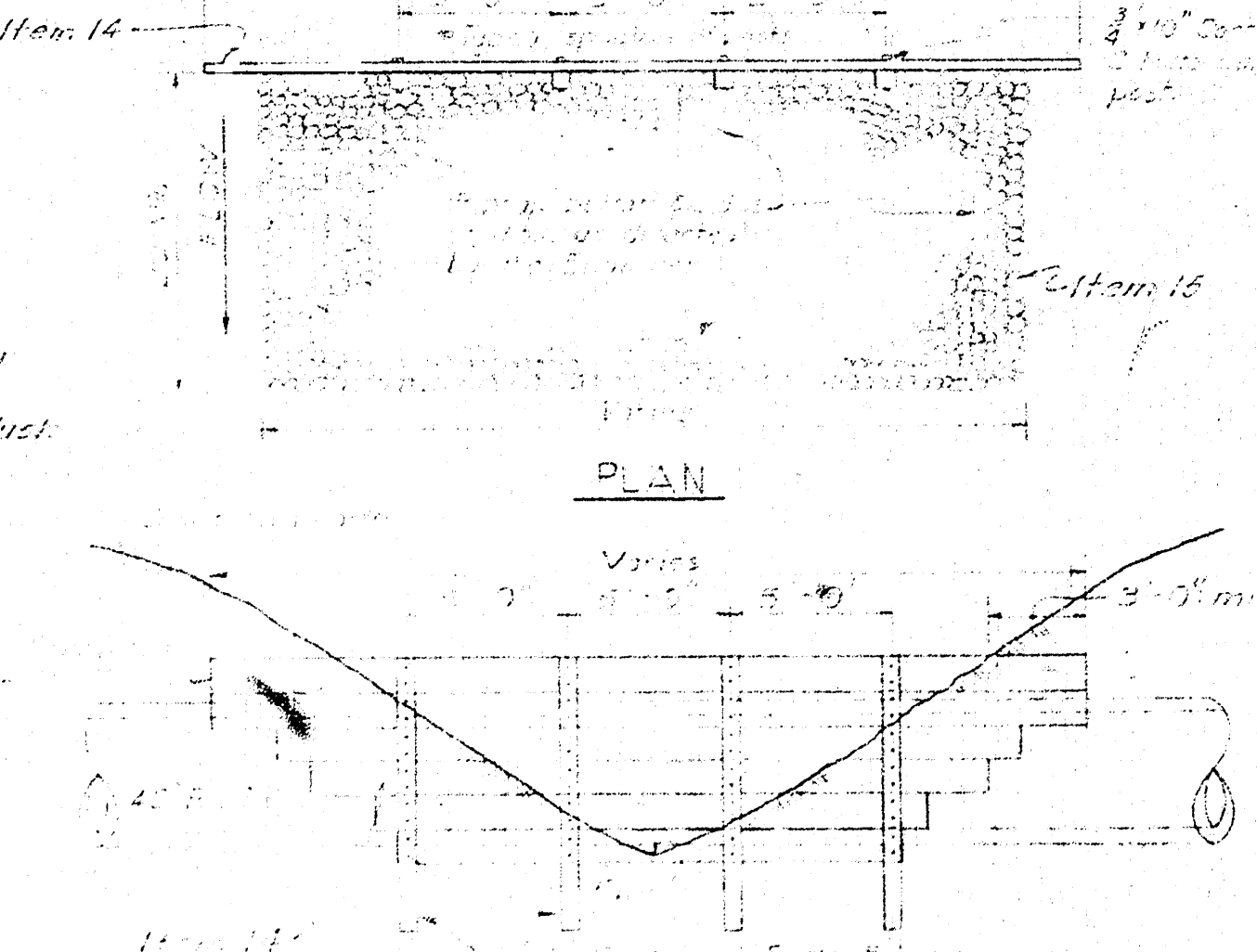
PLAN  
MANHOLE COVER



ELEVATION  
MANHOLE COVER



SECTION 1  
MANHOLE COVER  
DETAILS



TYPICAL DITCH CHECK AND RIPRAP

Notes:  
1. Pipe or trench on leading side of manhole shall be  
flushed with concrete to be shown in Plan. M.H. B. sp. 14 of 20.  
2. All manhole rings shall be set in mortar.  
3. The inside diameter of standard brick manholes shall be  
5'-0" for all pipe 30" and 36" in size. The inside diameter  
of the brick barrel on manholes for 42" diameter pipe  
shall be 4'-0".  
4. Reinforce each pipe opening with 4 extra #4 bars in  
each face, placed as shown in Part 2 of this sheet.  
5. Inside walls and floor of manhole structures to be  
lined with plastic lining as shown.  
6. No lining required in concrete tilt-inverts of  
manhole structures or brick barrels.

REVISED AS BUILT 6-24-57

WICHITA, KANSAS

ALTERING, REPAIRING, OR RECONSTRUCTING THE  
WAR INDUSTRIES SEWER

MISCELLANEOUS MANHOLE DETAILS  
AND DITCH CHECKS

BLACK & VEATCH

CONSULTING ENGINEERS, KANSAS CITY, MO.

DESIGNED BY: K.V.P. CHECKED BY: J.M.P.  
DATE: 10/1/57 DATE: 10/1/57

SHEET  
18 OF 20

