BOARDWALK

A MARK S. JORDAN DEVELOPMENT

NE 1/4 OF NE 1/4 - SEC 32, T7N, R2E

CITY OF RIDGELAND

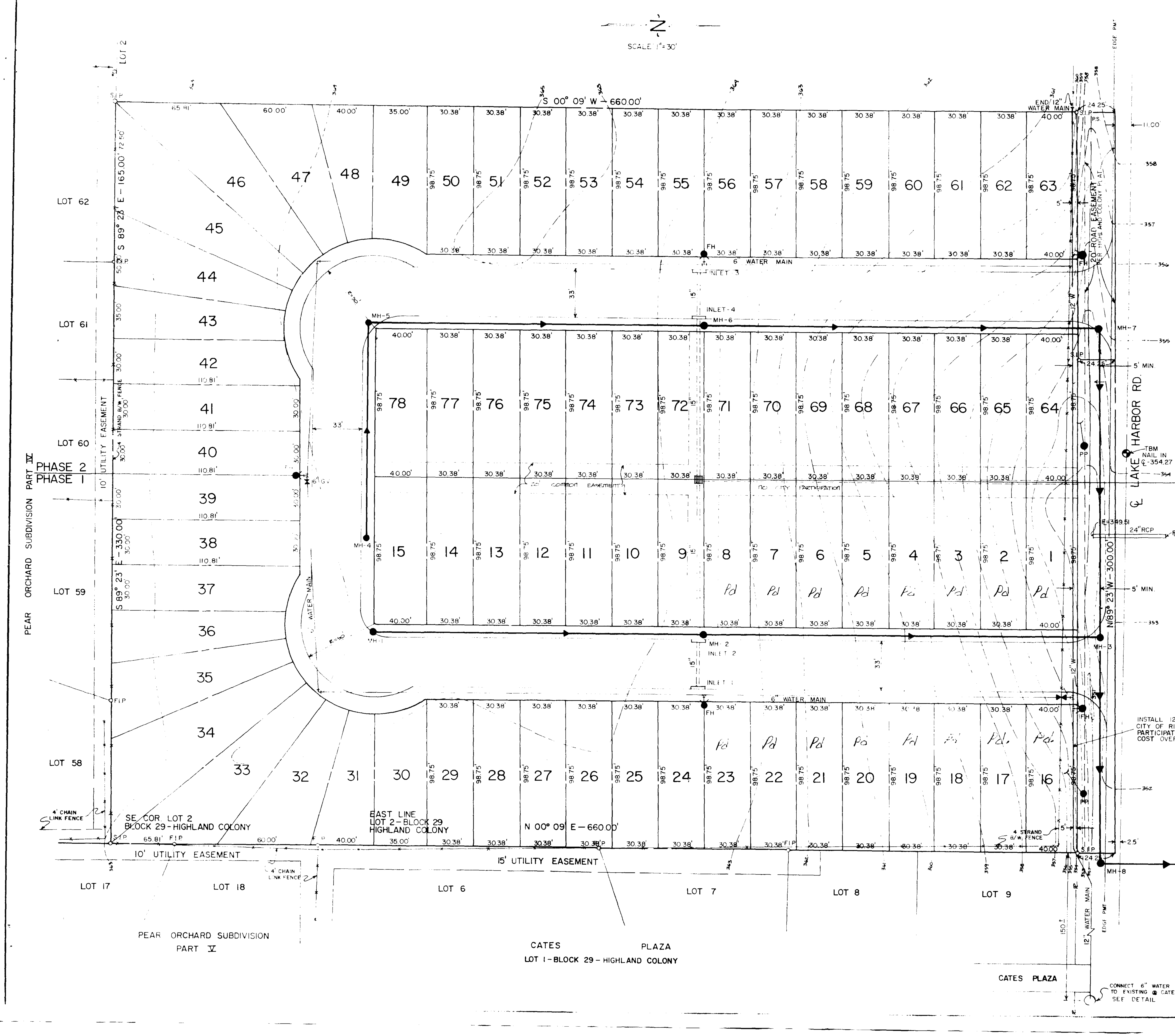
MADISON COUNTY, MISSISSIPPI

MAY, 1984

DESIGN BY: KARL P. LONG, CONSULTING ENGINEER

JACKSON, MISSISSIPPI

PWP-00208



EXISTING MH ON 8" SEWER MAIN AT PARK PLACE APARTMENTS TOP=349.68 FL=342.18

SEWER SPECIFICATIONS

1-All sewer mains ... strength Vitrified Clay Pipe (ASTM C-700) or ABS sewer pipe (ASTM D-2680).

2-Manholes to be precast concrete conforming to ASTM C-478.

3-Manhole castings to be Harper No. 1, MSPE Standard, or approved equal

4-Sewer mains to be tested for a maximum infiltration or exfiltration of 200 gpd per inch per mile of pipe, results to be furnished to the ENGINEER.

5-All sewer services to be marked at the property line with a 2" diameter creosote post or other acceptable marker.

6-Sewer bedding shall be Class C as described in ASTM C 12-74.

7-Manholes shall be waterprooted with an application of KOPPERS 300 M Coal Tar Epoxy or approved equal.

8-All sewers 24 inches or less will be laid with straight aligament between manholes and will be checked by either laser or lamping methods.

9-All backfill will be of suitable material, hand tamped to within one (1) foot of the top of the pipe, and otherwise placed in such a manner as not to disturb the alignment of the pipe

10-Sewer and water mains will have a minimum separation of ten (10) feet horizontally and 18 inches vertically with relation to each other.

11-Inlet and outlet to manholes will be constructed in such a manner that the connection will be flexible and not damage the sewer main in the event of manhole settlement.

WATER SPECIFICATIONS

1-Water mains are to be thoroughly flushed and sterilized in accordance with AWWA Standard C-601. Proof of two (2) satisfactory bacteriological tests from the Mississippi State Board of Health laboratory.

2-Water mains are to be pressure tested in accordance with AWWA Standard C-600-'', Section 4, results to be furnished to the ENGINEER.

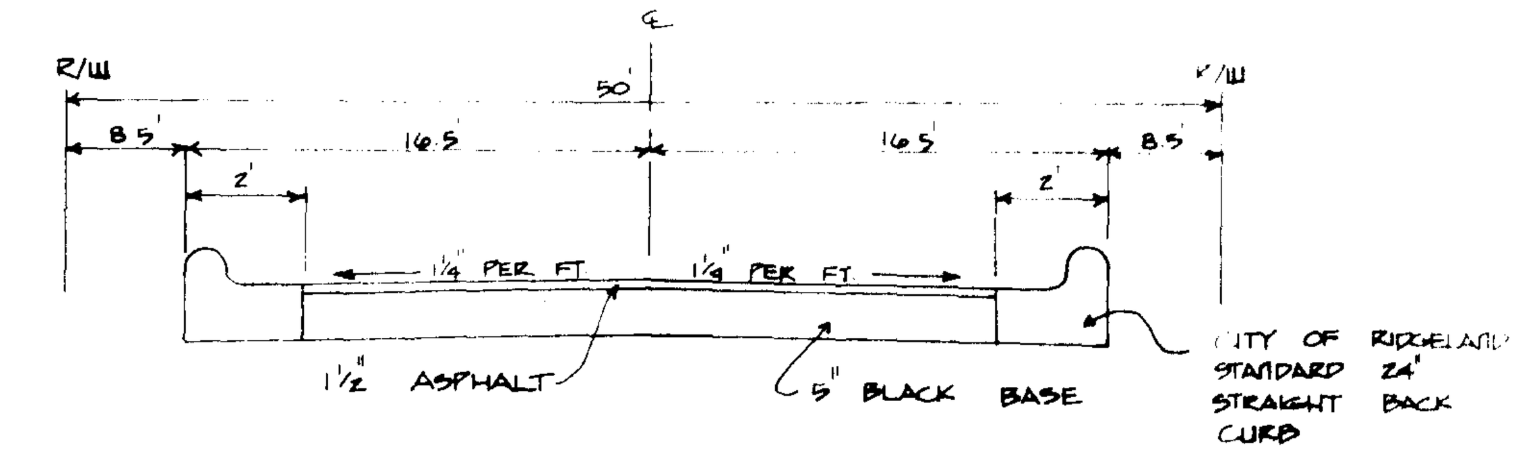
3-Water mains to be class 53 Ductile Iron, push on joints, NSF approved, with 36" minimum cover.

4-Fire Hydrants to be 3-way traffic model, Mueller A-423 or with NSF threads.

5-Gate valves to be standard AWWA with non-rising stems, iron bodies, bronze mounted and tested to 150 psi, Mueller or American.

6-All services shall include Mueller corporation stop at the main, Mueller Mark II curb stop, and minimum 3/4" polybutylene tubing.

WATER CONNECTION DETAIL
N.T.S.



TYPICAL SECTION
N.T.S.

REVISED 7/9/84 - 7/19/84
REVISED 6-19-84

BOARDWALK
LAKE HARBOR ROAD
RIDGELAND, MISSISSIPPI
A MARK S. JORDAN DEVELOPMENT

SITE PLAN

KARL P. LONG, CONSULTING ENGINEER

Designed By	Drawn By W.N.H.	Sheet 1 of
Scale 1"=30'	Date 5/84	

PLAN
SURVEYED
PLOTTED
NOTE BOOK
No.
BY
DATE
ACCURACY CHECKED
AS-BUILT CHECKED
R.O.W. CHECKED
STRUCTURE NOTATIONS CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
No.
DATE
BY
CHECKED
AS-BUILT CHECKED
STRUCTURE NOTATIONS CHECKED

SCALE: 1"=20' HORIZ.
1"=2' VERT.

K&E PLATE 1, PLAN-PROFILE
FREIFEL & ESSER CO
48 7004 MADE IN U.S.A.

BOARDWALK PLAN / PROFILE

DESIGN BY: KARL P. LONG, PE

DWG 2 OF ___
MAY, 1984

K&E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7004 MADE IN U.S.A.

BOARDWALK PLAN / PROFILE

DESIGN BY: KARL P LONG, PE

DWG 3 OF

MAY, 1984

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
No. ELEVATIONS CHECKED

PROFILE
PLOTTED
NOTE BOOK GRADES CHECKED
No. ELEVATIONS CHECKED

SCALE: 1"=20' HORIZ.
1"=2' VERT.

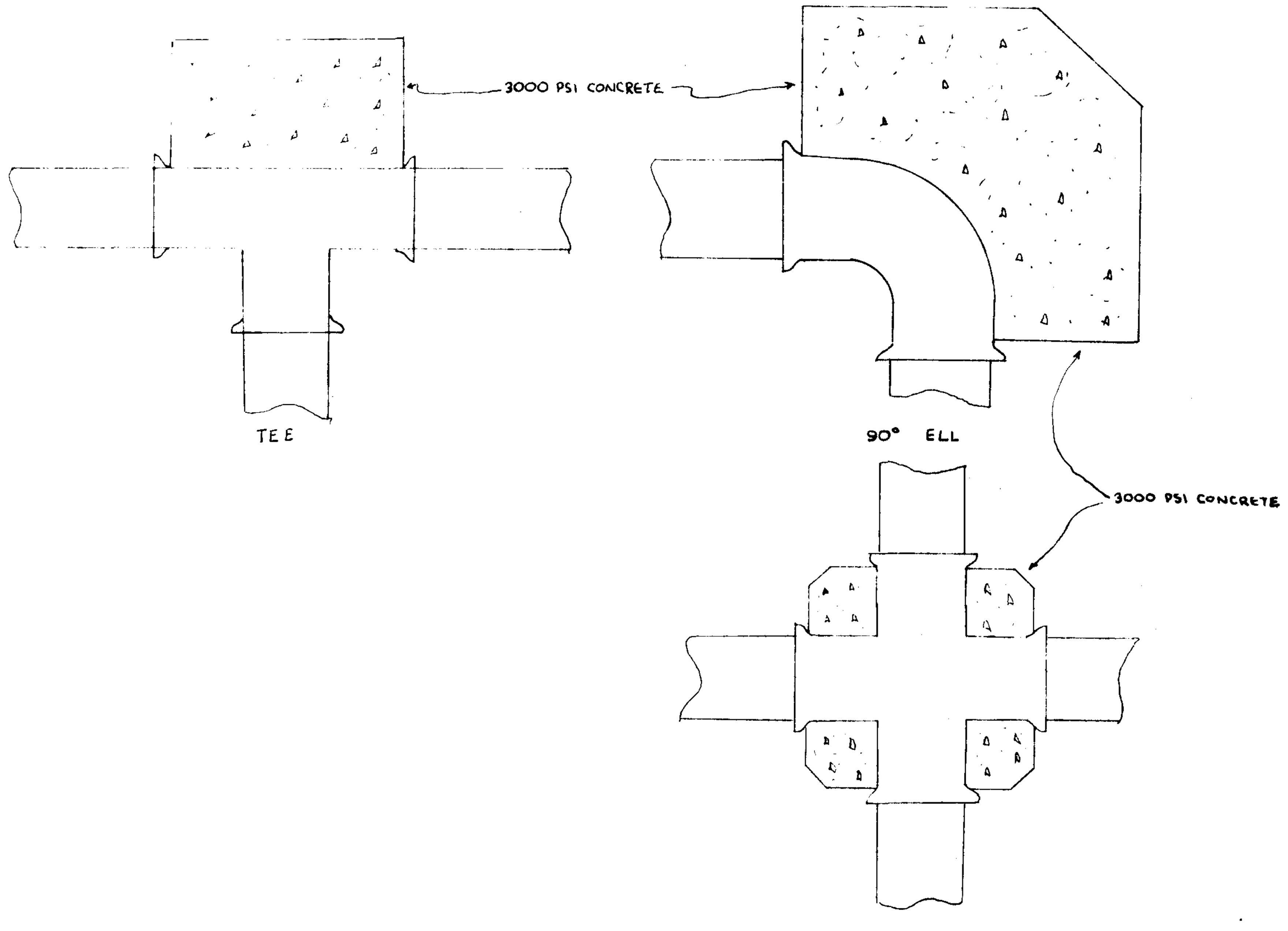
BOARDWALK

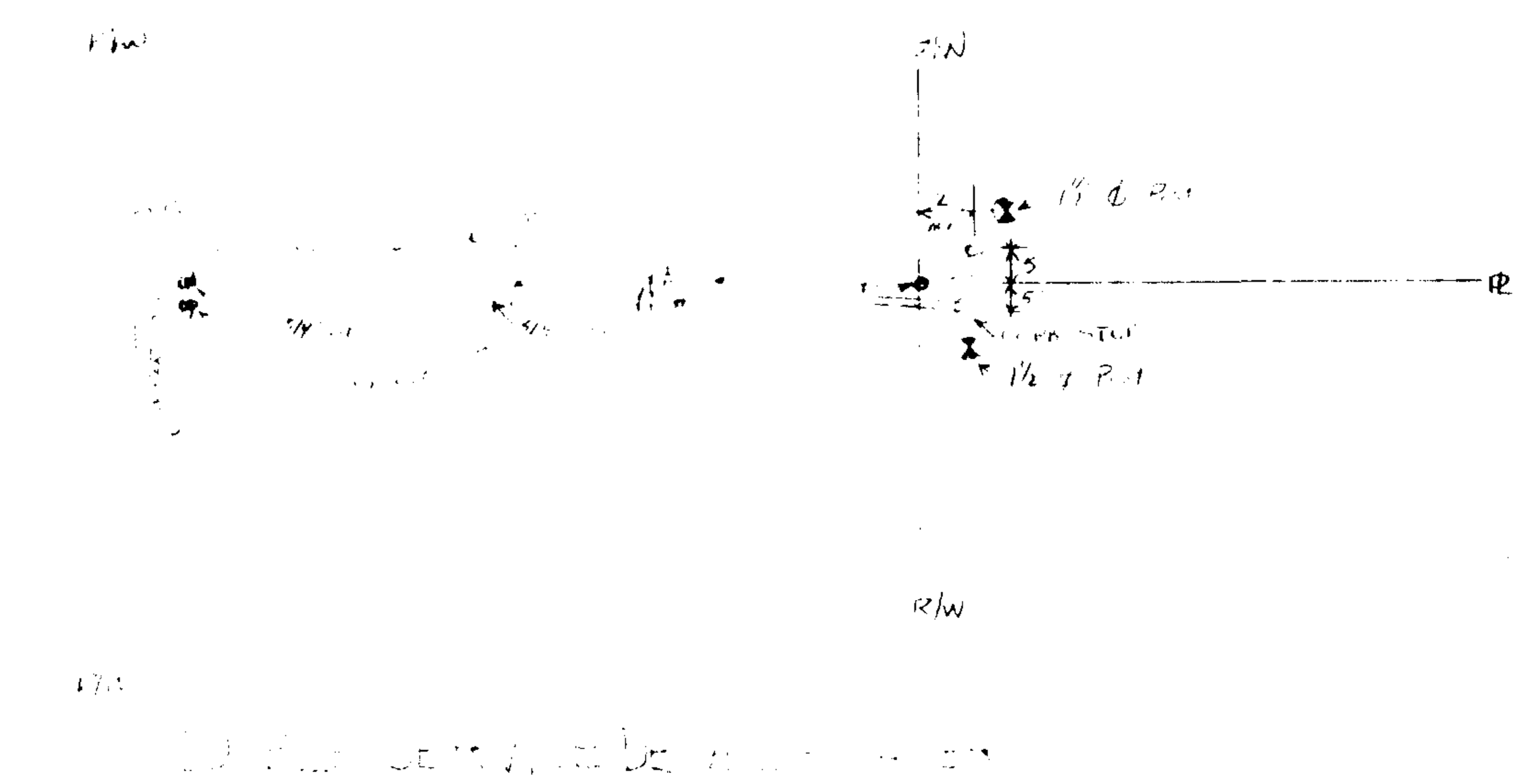
PLAN/PROFILE - SEWER OUTFALL
DESIGN BY: KARL P. LONG, PE

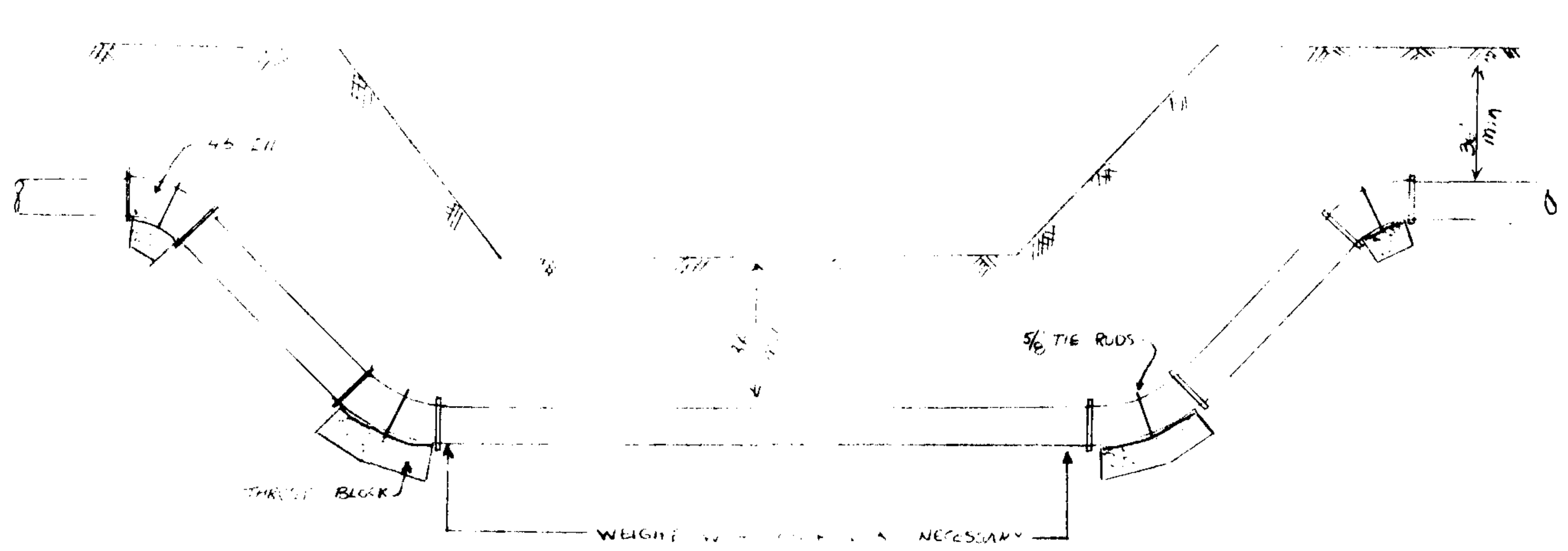
DWG 4 OF ___
MAY, 1984

PLATE 1, PLAN PROFILE

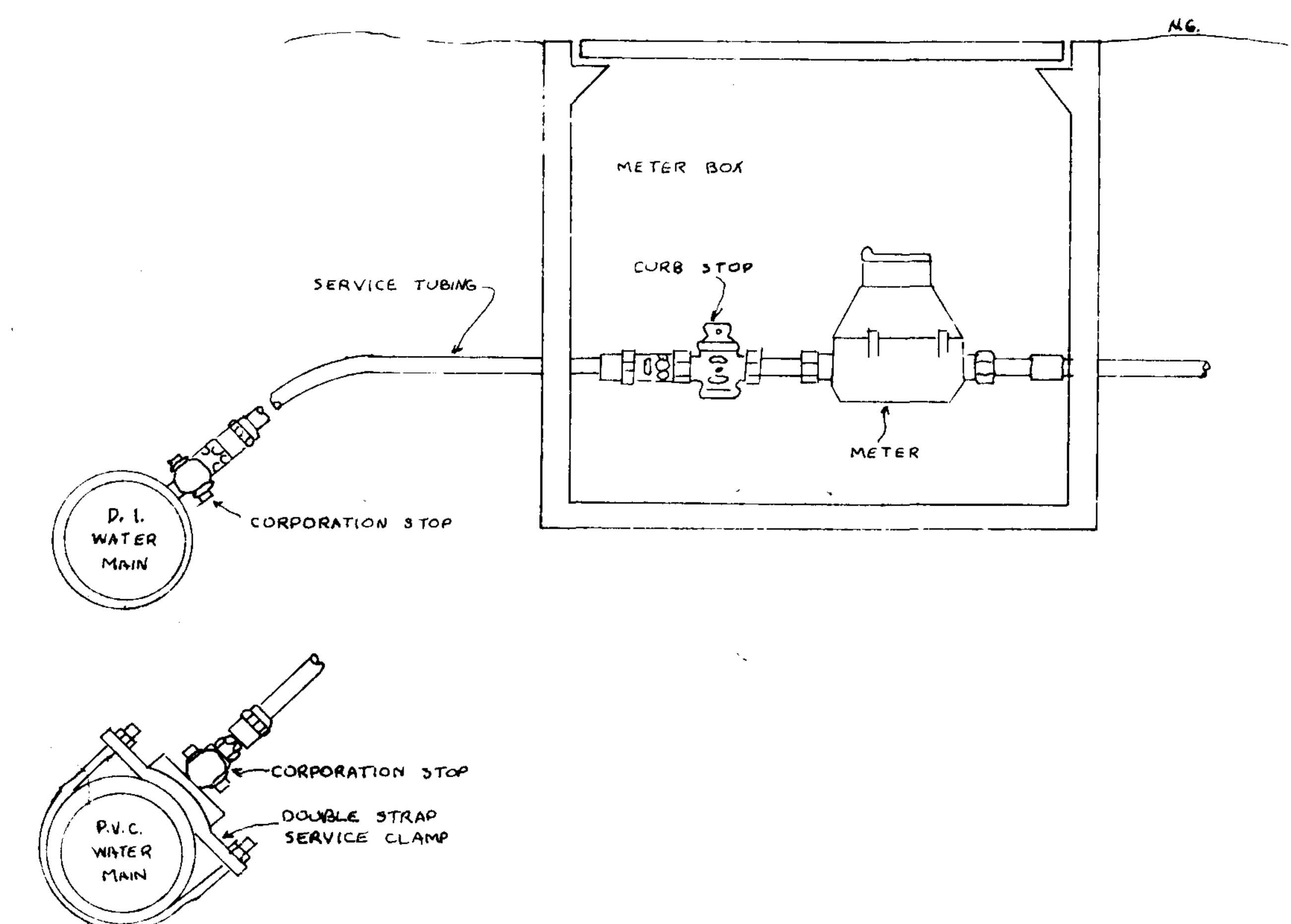
TYPICAL THRUST BLOCKS



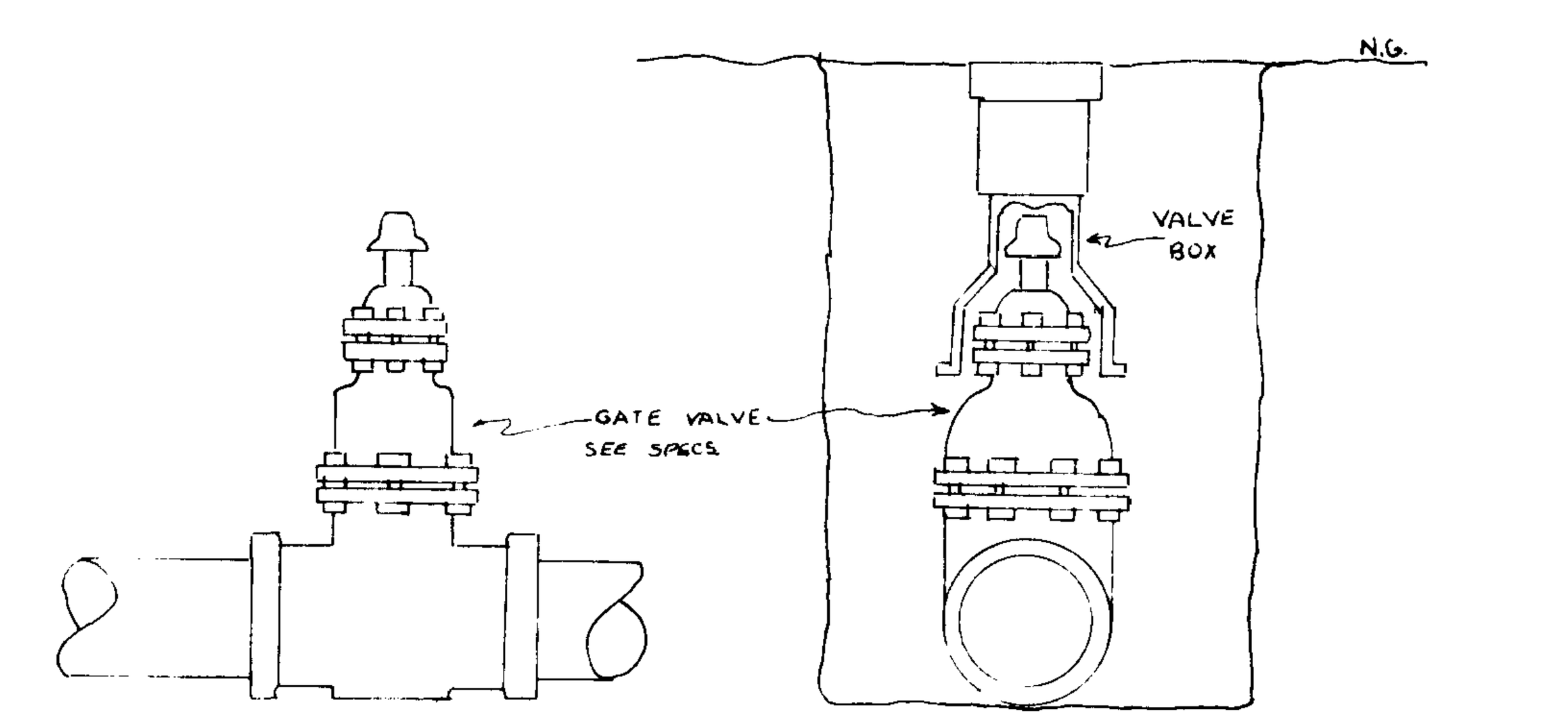




TYPICAL CREEK CROSSING

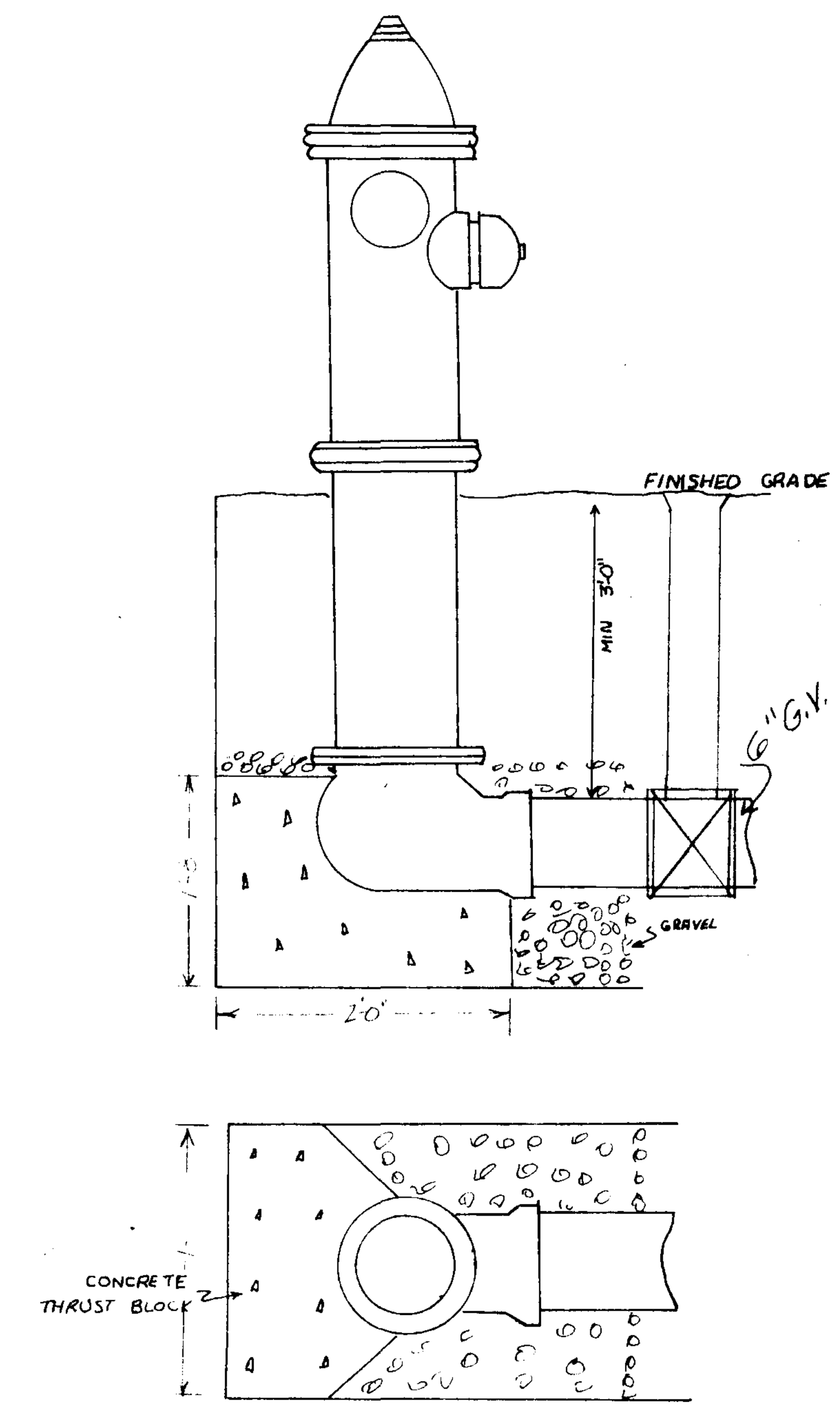


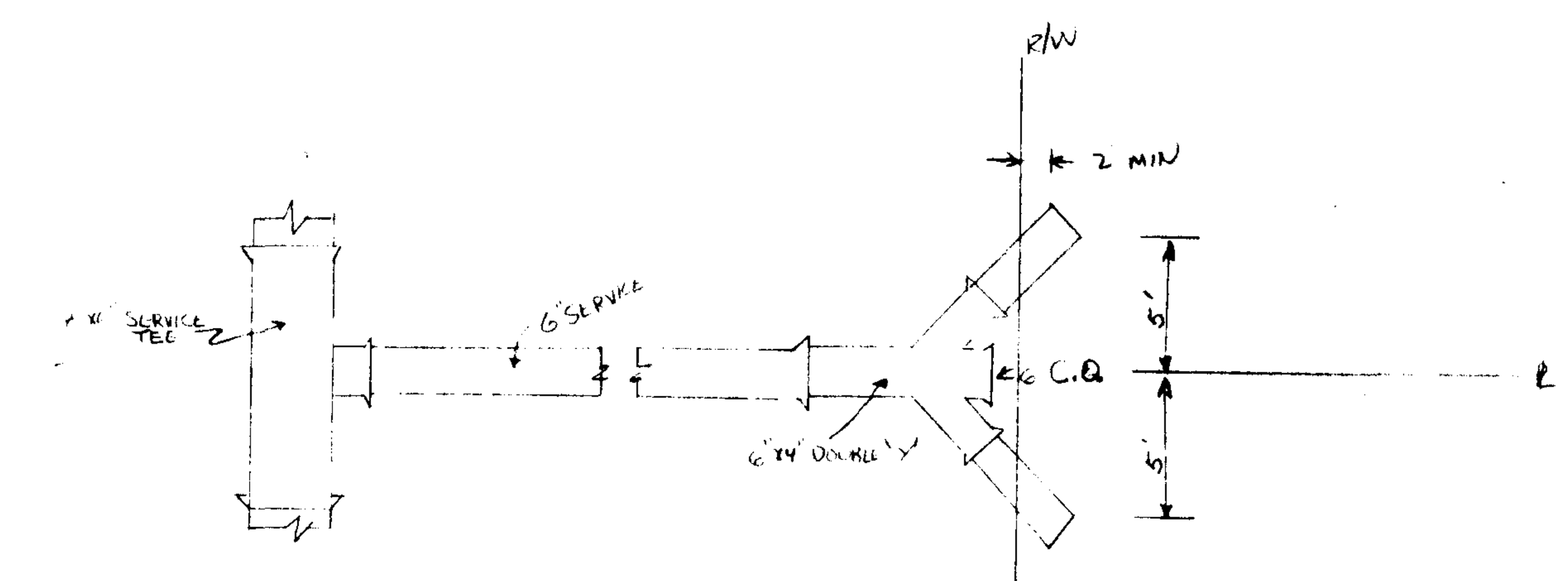
TYPICAL SERVICE ASSEMBLY



TYPICAL VALVE & BOX

FIRE HYDRANT DETAIL





DOUBLE SEWER SERVICE
N.T.S

No.	Revision	By	Date

STANDARD WATER DETAILS

CENTRAL MISSISSIPPI ENGINEERING

Designed By | Drawn By | Scale | Sheet of

SECTION BRICK MANHOLE WITH DROP CONNECTION
BRICK CEMENTED IN PLACE
STD SEWER PIPE OR C.I. SOIL PIPE AND FITTING
VARIABLE
1:2:4 MIX, CONCRETE
STANDARD M.H. CASTING
25"
NOTE: MH TO BE PLASTERED INSIDE & OUTSIDE. JOINTS NOT TO EXCEED 3/4"
4'-0" (5'MH)
2'-0" (4'MH)
4'-0" OR 5'-0"
SEE STEP DETAIL "A"
10"
INLET
OUTFALL
INLET
NOTE CONC GROUT FULL HEIGHT OF PIPE SLOPE TO CENTER
4 ϕ DEFORMED BARS 10" O.C. BOTH WAY
NOTE: 1:2:4 MIX CONC POURED IN PLACE, OR BRICK.
4 BRICK MIN
SECTION BRICK MANHOLE
BRICK CEMENTED IN PLACE
NOTE: STANDARD PRECAST CONC MH RISER SEC ARE IN 16, 32, & 48 LENGTHS.
CONC ENCASEMENT
8" POURED IN PLACE
6" PRECAST
SECTION OF PRECAST CONCRETE MANHOLE WITH DROP CONN.
STD MH CASTING
4" OR 6" ADJUSTING RING
24"
ECCENTRIC CONE SECTION
STEEL
NOTE: JOINTS TO BE PLASTERED INSIDE AND OUTSIDE
SEE STEP DETAIL "B"
RISER SECTION
48" OR 60"
CONC GROUT
NOTE 4 ϕ BARS 10" C.C. ON 48" MH. 4 ϕ 9" C.C. BOTH WAY 60" MH.
SECTION OF PRECAST CONCRETE MANHOLE
STD MH CASTING
24" MIN 48" MAX
10' MAX
STD MH CASTING
25"
12" MAX
ADJUSTING RING
24"
16"
4 DOWEL 18" C.C. AT JOINT
4'0" OR 5'0"
VARIABLE
10' MAX JOINTS
12" MIN
6'-0" MIN FOR 4' MANHOLE
7'-0" MIN FOR 5' MANHOLE
MONOLITHICALLY CAST-IN-PLACE MANHOLE
NOTE
BASE SHALL BE CAST MONOLITHALLY WITH THE REST OF THE MANHOLE. ALL CONC SHALL BE 3000 PSI (CLASS B)
MONOLITHICALLY PLACED 3000 PSI CONCRETE (CLASS B)
DETAIL "A"
RUBBER GASKET
BELL & SPIGOT
RUBBER GASKET
TONGUE & GROOVE
STOPPER REQ'D
PROP LINE
TYPICAL SERVICE LINE UNDER PAVED STREET.
1/8 BEND
WYE
NOTE TYPICAL SERVICE LINE ON UNDEVELOPED STREET
SEE DETAIL "A"
FLOW
TYPICAL SERVICE TO PROPERTY LINE
2" DIA HOLE REQ'D.
PLAN
WIRE HANDLE PRECAST CONC. RUBBER GASKET STOPPER
PROPERTY LINE
TYPICAL SERVICE LINE ON DEVELOPED OR UNDEVELOPED STREET
RUBBER GASKET
TYPICAL SERVICE TO PROPERTY LINE WITH MODIFIED TEE JOINT
DETAIL "E"
SLAB LIFT DETAIL
2 REQ'D. LIFT WILL BE INSTALLED WHEN REQ'D BY THE PROJECT SPEC'S.
TYPICAL SEC MODIFIED TEE JOINT
SEWER
TOP PLAN OF COVER
INVERT PLAN OF COVER
REINF RIBS
3/4 HOLE
STD. M.H. CASTING
2" HOLE
REINFORCING STEEL
SLAB TO BE SET IN GROUT
PIPE DIA.
FLAT SLAB MANHOLE TOP
TYPE "C" PIER 4" BLACK PIPE ALL PIPE TO BE PAINTED WITH RED LEAD & ALUMINUM
TYPE "A" PIER 2 1/2" BLACK PIPE
TYPE PIER DETAIL FOR SEWER DITCH CROSSING
BIT COATED
CAST IRON STEP DETAIL "B"
10"
STEP DETAIL "A"
SANITARY SEWER
STD NO.

SECTION OF PRECAST CONCRETE MANHOLE

DIA.	A	B	C	T	APPROX. CONE WEIGHT LBS.	APPROX RISER WGH LBS/FT
48"	38"	3 1/2"	5"	5"	2075	870
60"	36"	5"	9"	6"	3455	1250

DIMENSION AND WEIGHT TABLE

PIPE DIA.	W	D	T	EST. WT.
48"	5"	58"	6"	1,145 LBS.
54"	5 1/2"	65"	8"	1,990 LBS.
60"	6"	72"	8"	2,515 "
66"	6 1/2"	79"	8"	3,090 "
72"	7"	86"	8"	3,720 "
84"	[illegible]	100"	8"	5,140 "
96"	[illegible]	114"	8"	6,775 "
108	[illegible]	126"	8"	8,345 "