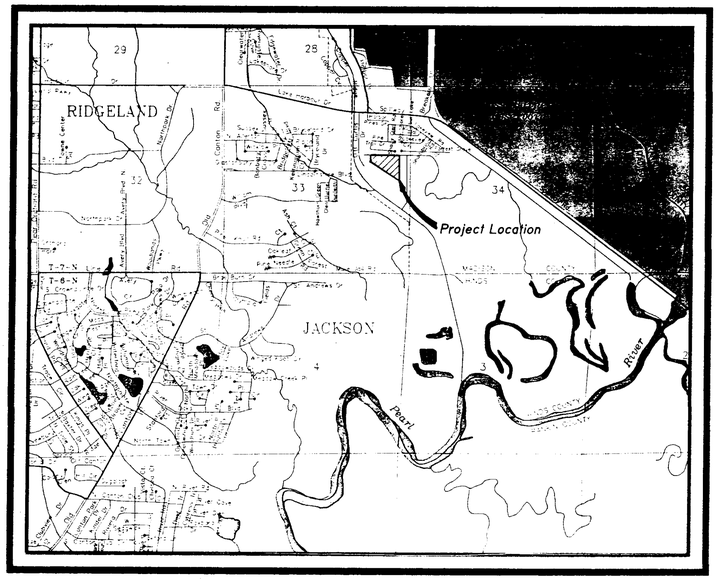
CONSTRUCTION PLANS FOR THE DEVELOPMENT OF

HARBOR VILLAGE, PART V

BY HOMEWOOD MANOR ENTERPRISES, INC.

MADISON COUNTY, MISSISSIPPI



VICINITY MAP

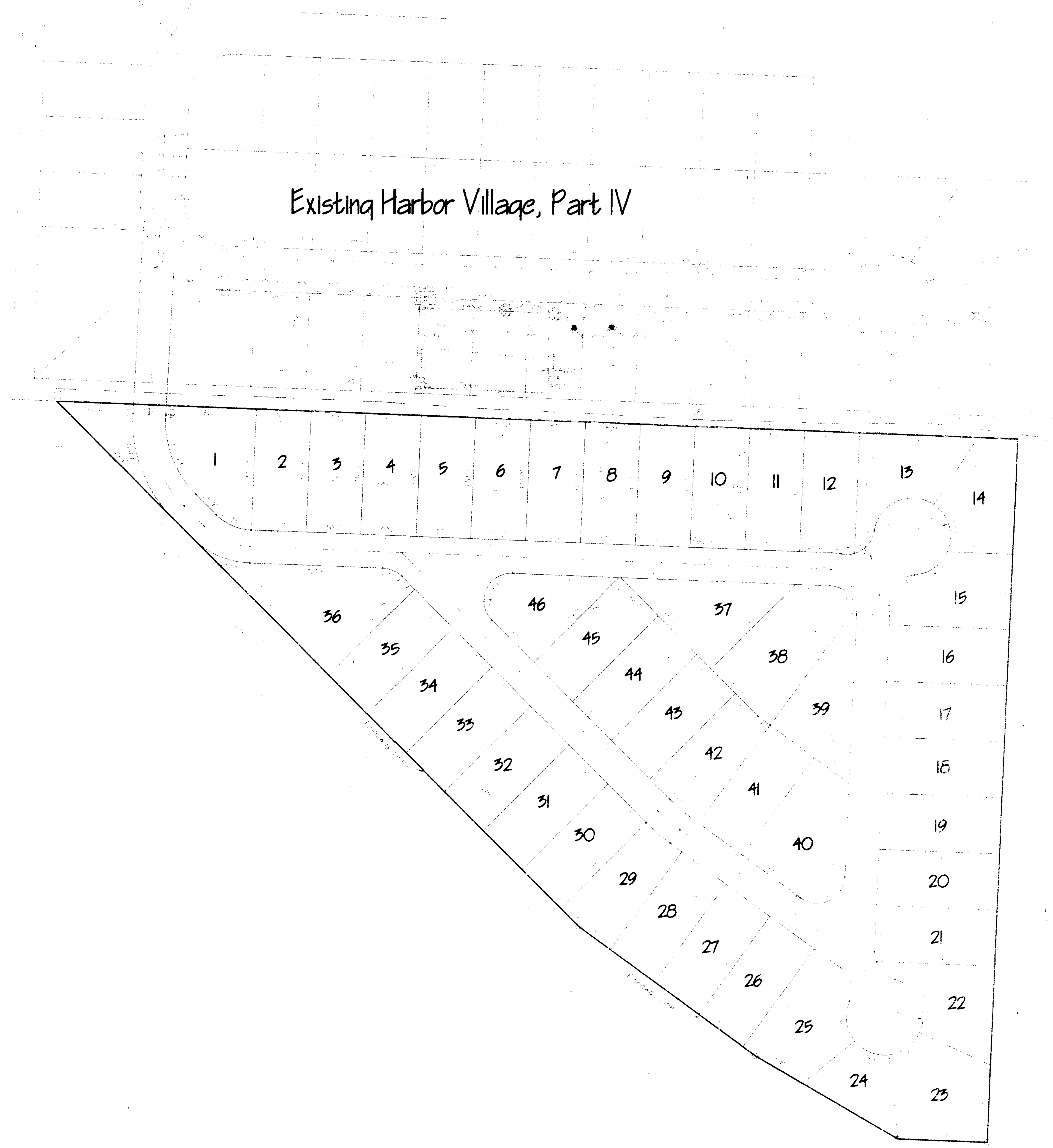
NOVEMBER, 1994

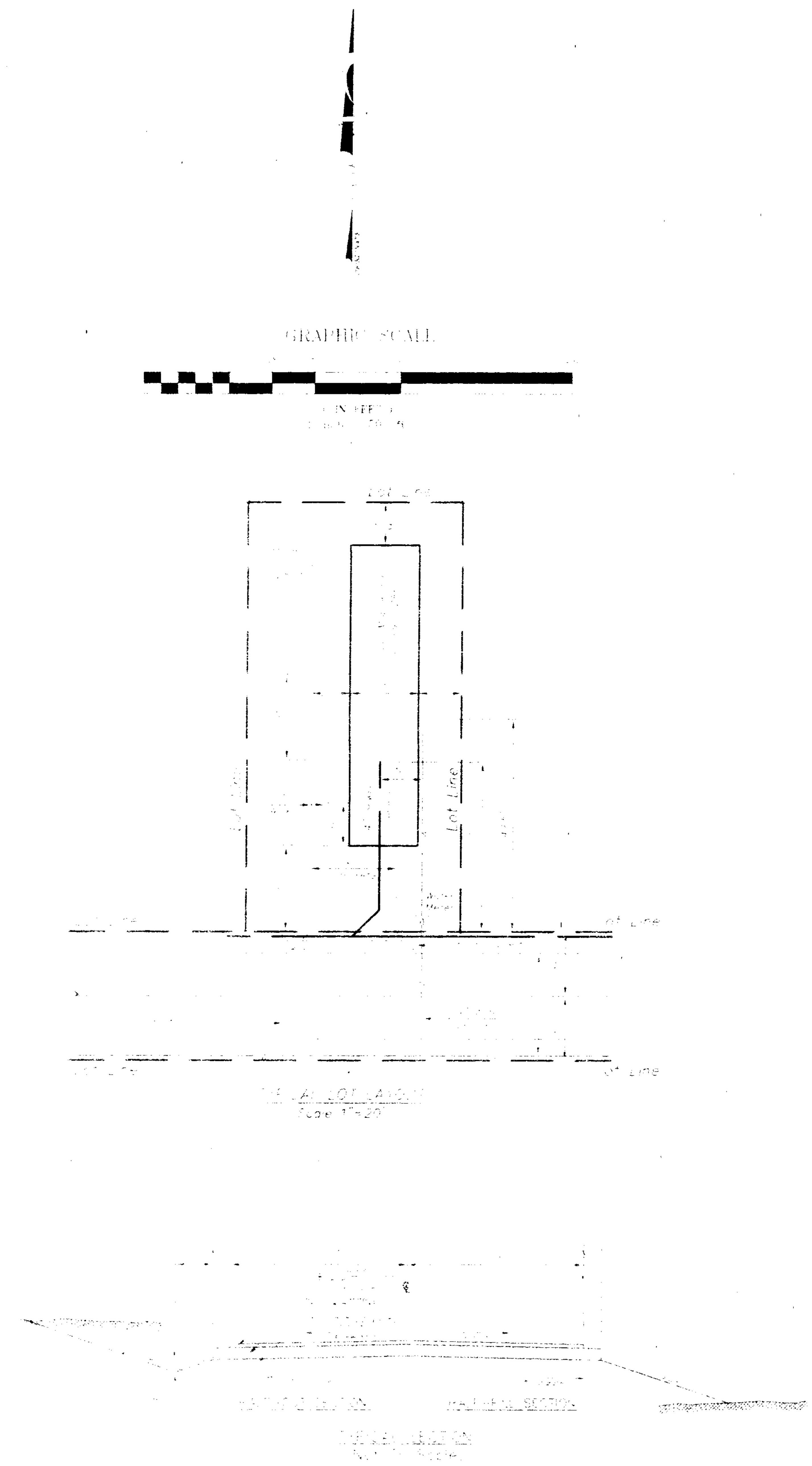
22 Dramler 9.94
Alright

NEEL-SCHAFFER, INC.
Engineers · Planners
Jackson, Mississippi

Date
CHARLES A. LOTT, JR., P.E.
Ms. License No. 9047

PWP-00817





FEMA
National Flood Insurance Program
Flood Insurance Rate Map
Community Panel Number 280228 0340 D
Flood Zone 'AE'
100 Year Flood Elevation 287.0

PREPARED FOR
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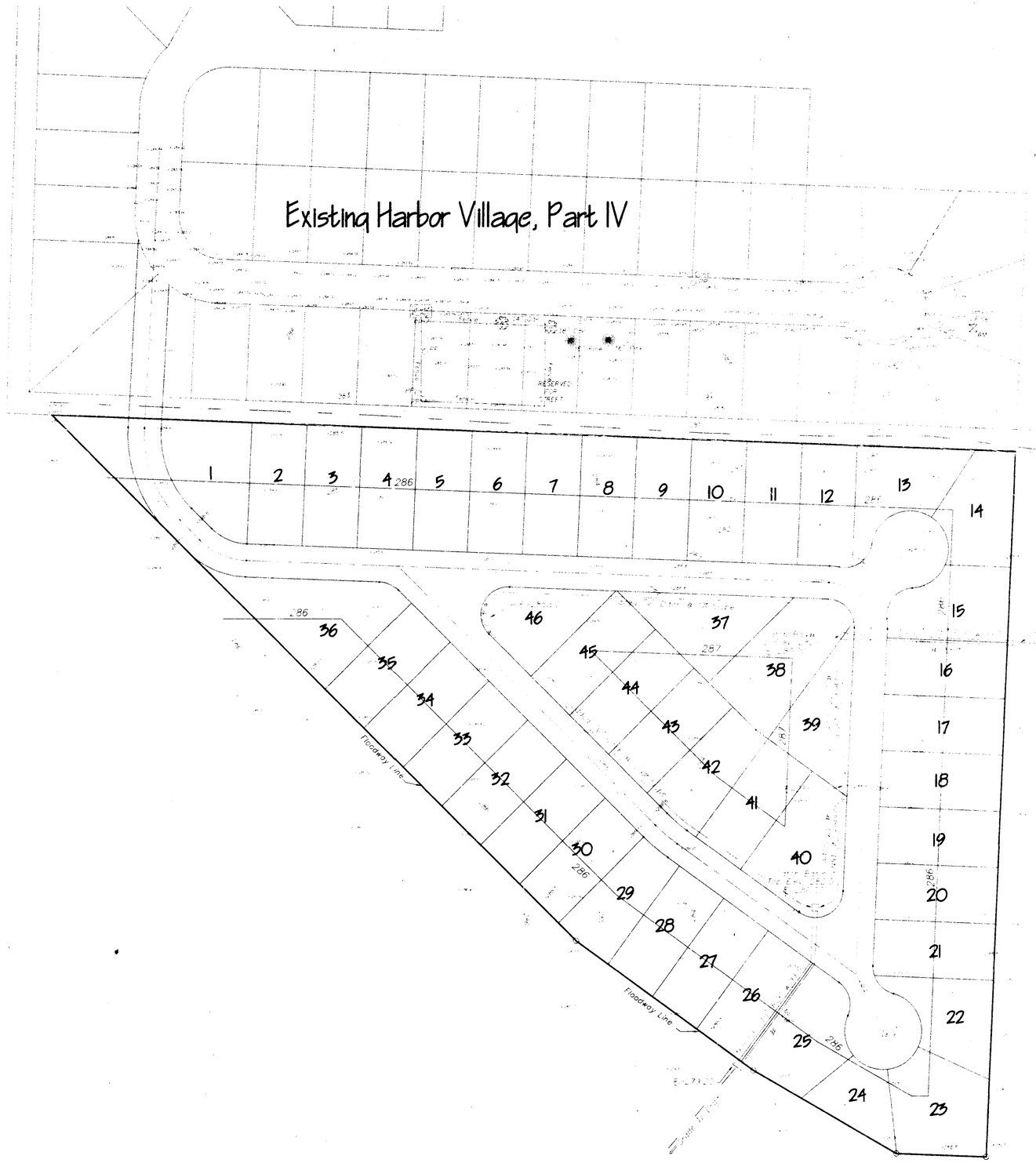
MADISON COUNTY, MISSISSIPPI

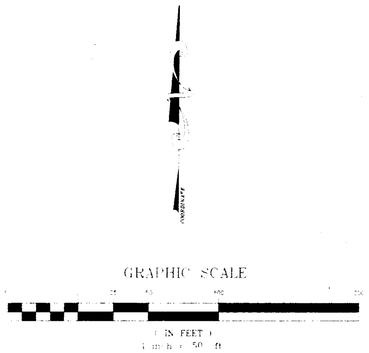
HARBOR VILLAGE, PART V
MADISON COUNTY, MISSISSIPPI

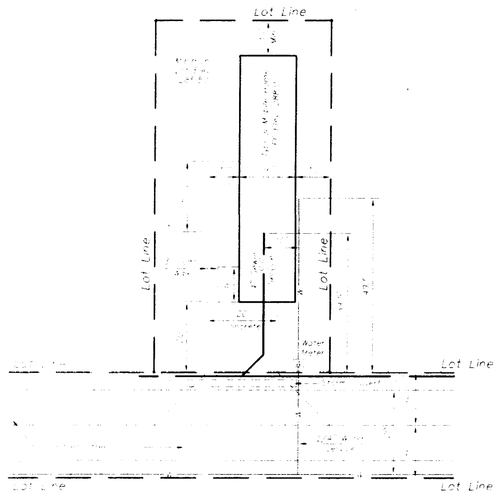
PRELIMINARY PLAT

NEEL-SCHAFFER, INC.
Engineers • Planners

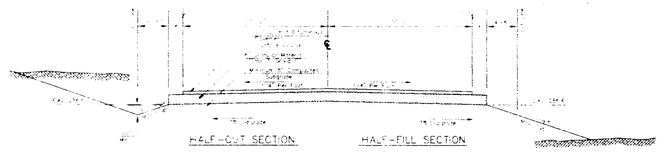
DRAWING NO
2 of 6







TYPICAL LOT LAYOUT
Scale 1"=20'



TYPICAL SECTION
(Not To Scale)

FEMA
National Flood Insurance Program
Flood Insurance Rate Map
Community Panel Number 280228 0340 D
Flood Zone 'AE'
100 Year Flood Elevation 287.0

11-11-94

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MADISON COUNTY, MISSISSIPPI

HARBOR VILLAGE, PART V
MADISON COUNTY, MISSISSIPPI

DRAINAGE SITE PLAN

DSGN	RWL
DRWN	EJG
CHKD	
SCALE	AS SHOWN

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Jackson, Mississippi

DRAWING NO.
3 OF 6
H3095-0

FEMA
National Flood Insurance Program
Flood Insurance Rate Map
Community Panel Number 280228 0340 D
Flood Zone 'AE'
100 Year Flood Elevation 287.0

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HARBOR VILLAGE, PART V
MADISON COUNTY, MISSISSIPPI

SEWER AND WATER SITE PLAN

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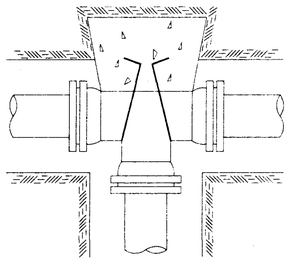
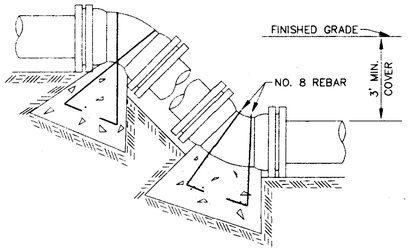
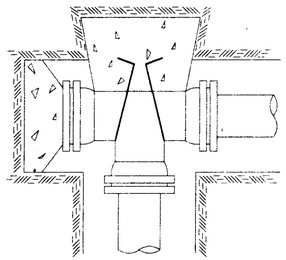
DRAWING NO. 4 of 6



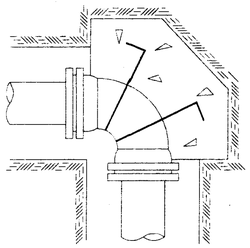
TEE



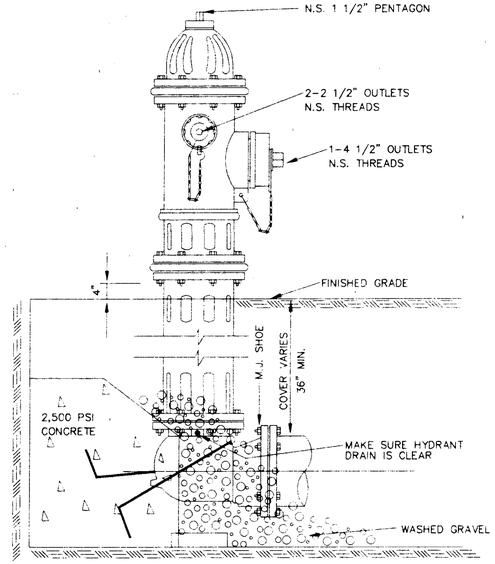
VERTICAL BENDS



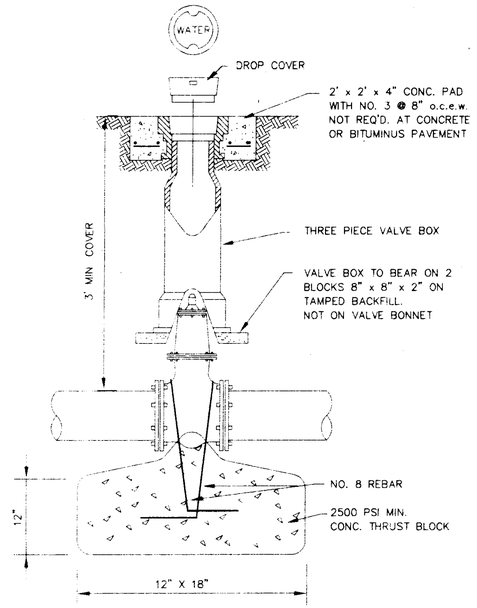
PLUGGED TEE



90° BEND

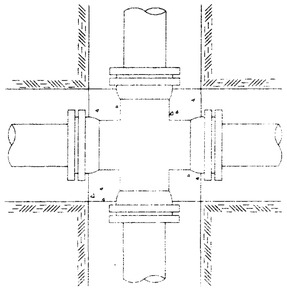


ELEVATION

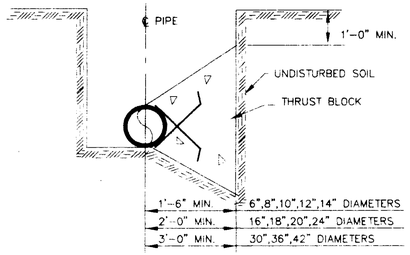


GATE VALVE DETAIL

N.T.S.



CROSS



TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

N.T.S.

NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

BEARING AREA IN SQ. FT.

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	2.5	3.0	2.0	2.0	2.0
8	4.0	6.0	3.0	2.0	2.0
10	6.0	9.0	5.0	2.5	2.0
12	9.0	11.0	6.0	3.5	2.0
14	12.0	18.0	9.0	5.0	2.5
16	16.0	22.5	12.0	6.0	3.0
18	20.0	28.0	15.0	8.0	4.0
20	24.5	34.0	19.0	10.0	5.0
24	35.0	49.0	27.0	14.0	7.0
30	54.0	76.0	41.0	21.0	10.0
36	77.0	108.0	59.0	30.0	15.0
42	104.0	146.0	79.0	40.0	20.0

NOTE:
ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100.

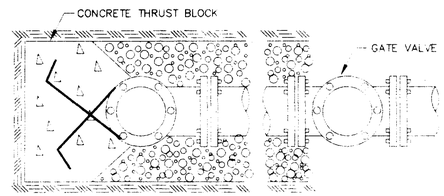
FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

VERTICAL BENDS

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	—	—	26.0(1.0)	14.0(.5)	7.0(.3)
8	—	—	45.0(1.7)	25.0(.9)	13.0(.5)
10	—	—	68.0(2.5)	37.0(1.4)	19.0(.7)
12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	—	—	370(13.7)	200(7.4)	102(3.8)
30	—	—	568(21.1)	308(11.4)	156(5.8)
36	—	—	814(30.1)	440(16.3)	225(8.3)
42	—	—	1100(40.7)	595(22.0)	303(11.2)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE:
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A.P=100 PSI AND A S.F.=1.5 . FOR DIFFERENT P, MULTIPLY VALUES BY P/100.

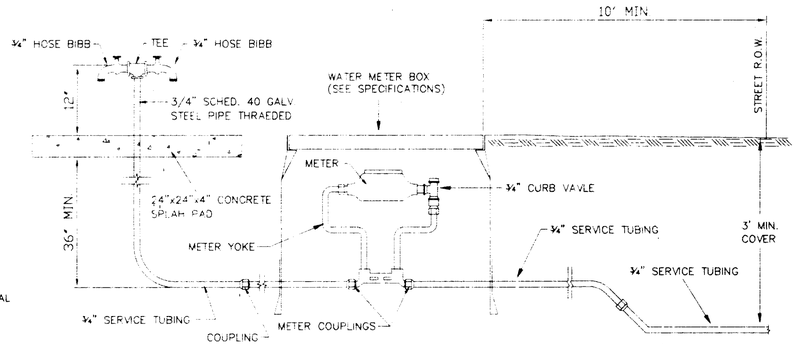


PLAN

TYPICAL FIRE HYDRANT INSTALLATION

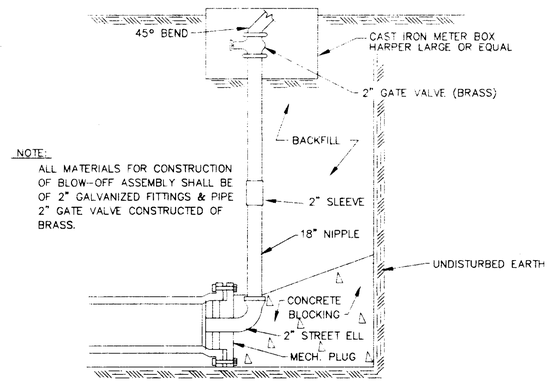
NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.

N.T.S.



TYPICAL 3/4" WATER SERVICE

N.T.S.



NOTE:
ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE 2" GATE VALVE CONSTRUCTED OF BRASS.

TYPICAL BLOW-OFF ASSEMBLY

N.T.S.

PREPARED FOR
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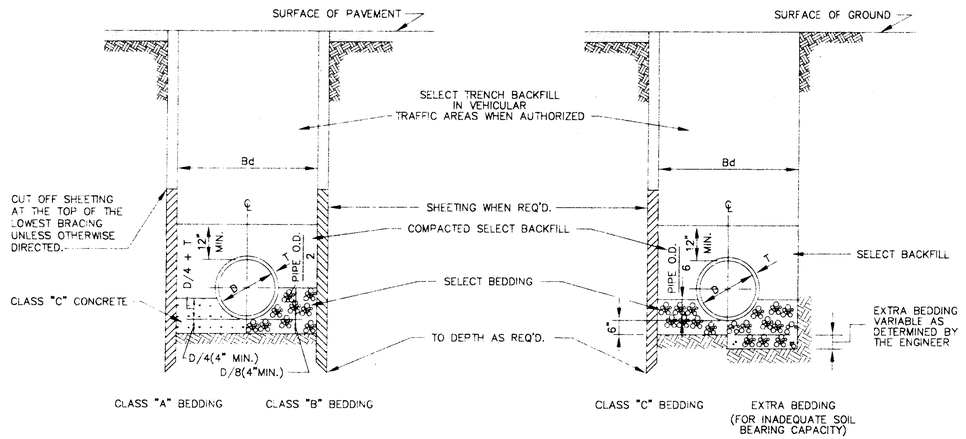
MADISON COUNTY, MISSISSIPPI

HARBOR VILLAGE, PART V
MADISON COUNTY, MISSISSIPPI

STANDARD WATER SERVICE AND FIRE HYDRANT DETAILS

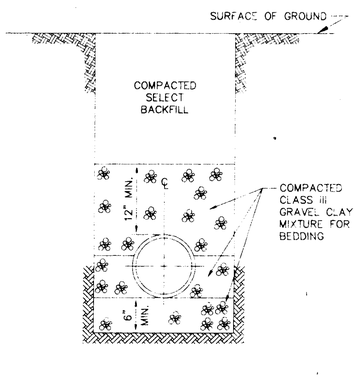
DSGN D.B.	NEEL-SCHAFFER, INC. Engineers • Planners JACKSON, MISSISSIPPI	DRAWING NO. 5 OF 6
DRWN J.S.R.		
CHKD C.L.		
SCALE AS SHOWN	1-1305-01	



BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE

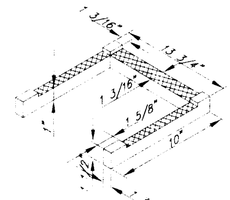
TYPICAL TRENCH DETAILS

N.T.S.

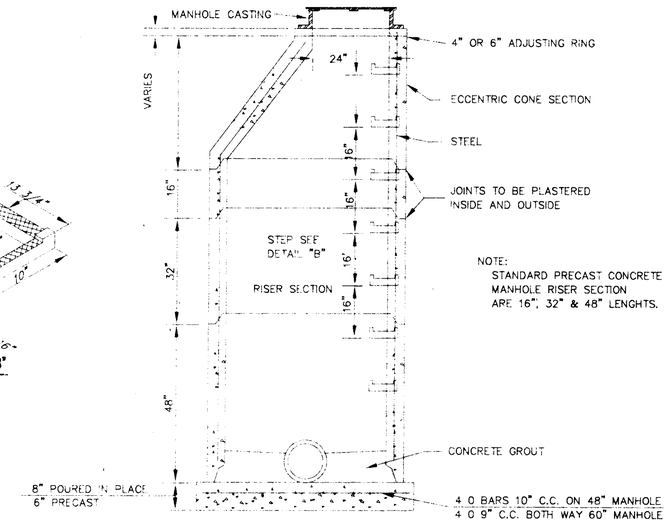


BEDDING FOR PVC PIPE

N.T.S.

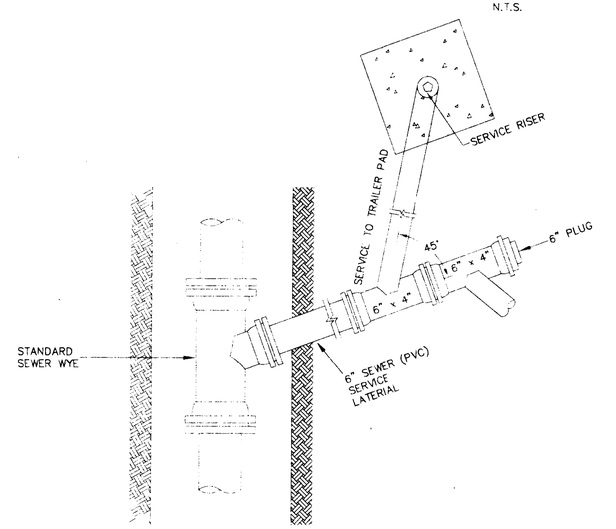


DETAIL 'B'



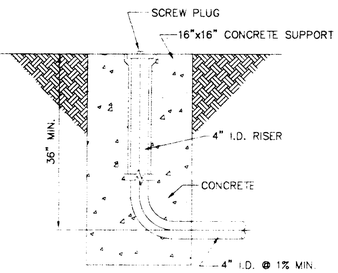
SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



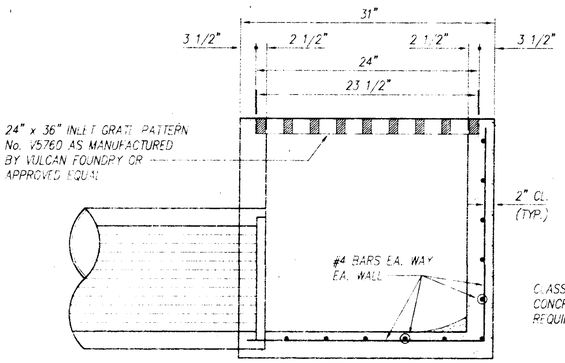
SEWER SERVICE CONNECTION (SIMILAR FOR SINGLE SERVICE CONNECTION)

N.T.S.



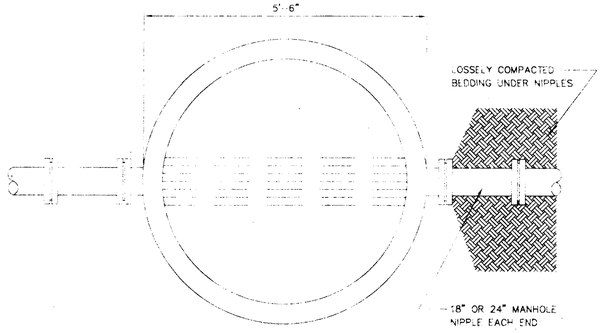
SERVICE RISER DETAIL

N.T.S.



GRATE INLET DETAILS (UP TO AND INCLUDING 24" PIPE)

NO SCALE



NOTES:

1. DO NOT POUR ADDTIONAL CONCRETE ON OR BEYOND MANHOLE NIPPLE.
2. USE A MINIMUM OF 1 NIPPLE AT EACH ENTRANCE TO MANHOLE.
3. PIPE OPENING IN PRE-CAST CONCRETE UNITS SHALL BE EQUAL TO OUTSIDE DIAMETER OF PIPE PLUS 6" MAX.
4. DO NOT USE BRICK, BLOCK OR TIMBER TO SUPPORT PIPE OR NIPPLES OUTSIDE OF MANHOLE.

TYPICAL PIPE CONNECTION TO MANHOLE

N.T.S.

SANITARY SEWER NOTES:

1. MANHOLE INETRIOR TO BE COATED WITH 20 M.I. THICKNESS GLIDDEN TOP SERVICE BLACK BITMINOUS COATING (OR APPROVED EQUAL) APPLIED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS.
2. MAXIMUM PERMITTED INFILTRATION/EXFILTRATION IS 200 GALLONS PER INCH DIAMETER PER MILE PER DAY.
3. PIPE TO MANHOLE CONNECTIONS: CLAY SEWER PIPE – INSTALL PIPE TO PROVIDE PIPE JOINT WITHIN TWO FEET OF MANHOLE WALL, USE 2' NIPPLE IF NESSARY. PVC PIPE – INSTALL PREMOLDED FLEXIBLE MANHOLE JOINT SEAL DEVICE TO CONNECT PIPE TO MANHOLE WALL.
4. INSTALLATION OF SANITARY SEWER MAINS & SERVICES: WHEN A SEWER SERVICE LINE CROSSES ABOVE A WATER SUPPLY MAIN OR WITHIN 18" BELOW A WATER MAIN, OR WITHIN 10' ON EITHER SIDE, THE SEWER SERVICE OR MAIN SHALL BE 160 P.S.I. PVC WATER PIPE FOR A DISTANCE OF 10' EITHER SIDE OF THE WATER SUPPLY MAIN.

PREPARED FOR
HOMEWOOD MANOR ENTERPRISES, INC.
MADISON COUNTY, MISSISSIPPI

HARBOR VILLAGE, PART V
MADISON COUNTY, MISSISSIPPI

SANITARY SEWER, MANHOLE AND CATCH BASIN DETAILS

DSGN D.B.	NEEL-SCHAFFER, INC. Engineers • Planners	DRAWING NO
DRWN J.S.R.		6 of 6
CHKD C.L.		
SCALE AS SHOWN	1-1305-01	