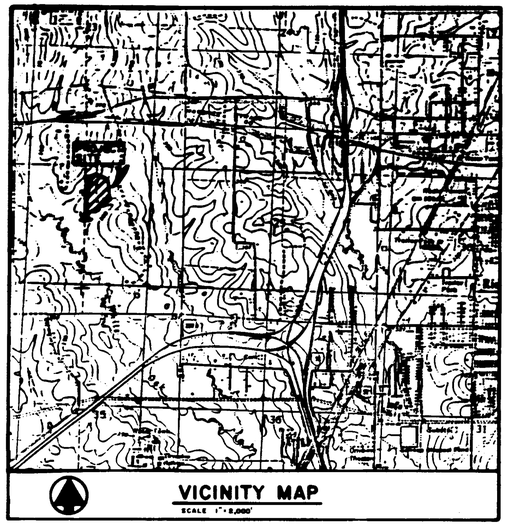
CONSTRUCTION PLANS

WESTFIELD OF DINSMOR

SITUATED IN THE NE1/4 OF SECTION 26,
T7N-R1E, MADISON COUNTY, MISSISSIPPI



INDEX OF DRAWINGS

SHT NO	DESCRIPTION
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7.	PLAN-PROFILE-WESTFIELD ROAD
8.	STANDARD SAN. SEWER DETAILS
9.	STANDARD WATER DETAILS

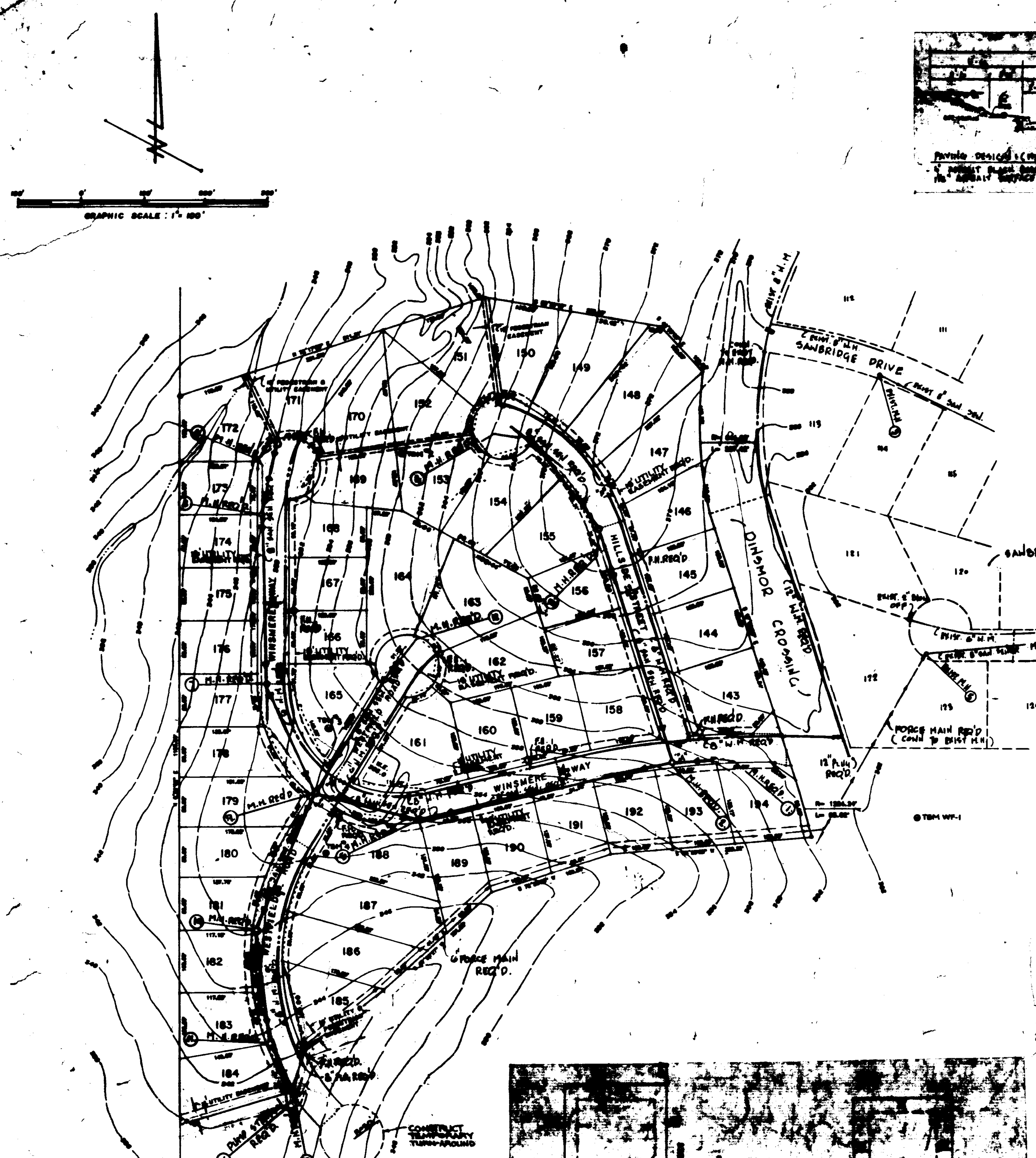
DEVELOPED BY: S.M.C.D.C. INC. GENERAL PARTNER
5 LAKELAND CIRCLE
JACKSON, MISSISSIPPI

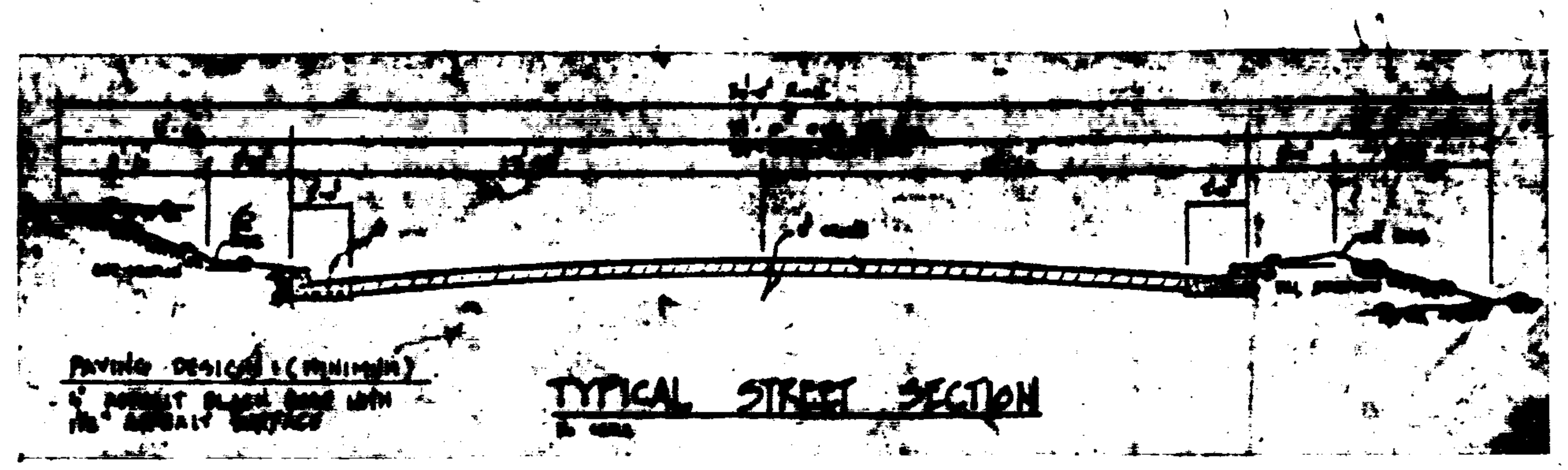
DESIGNED BY: CENTRAL MISSISSIPPI ENGINEERING, INC.
5 LAKELAND CIRCLE
JACKSON, MISSISSIPPI 39216

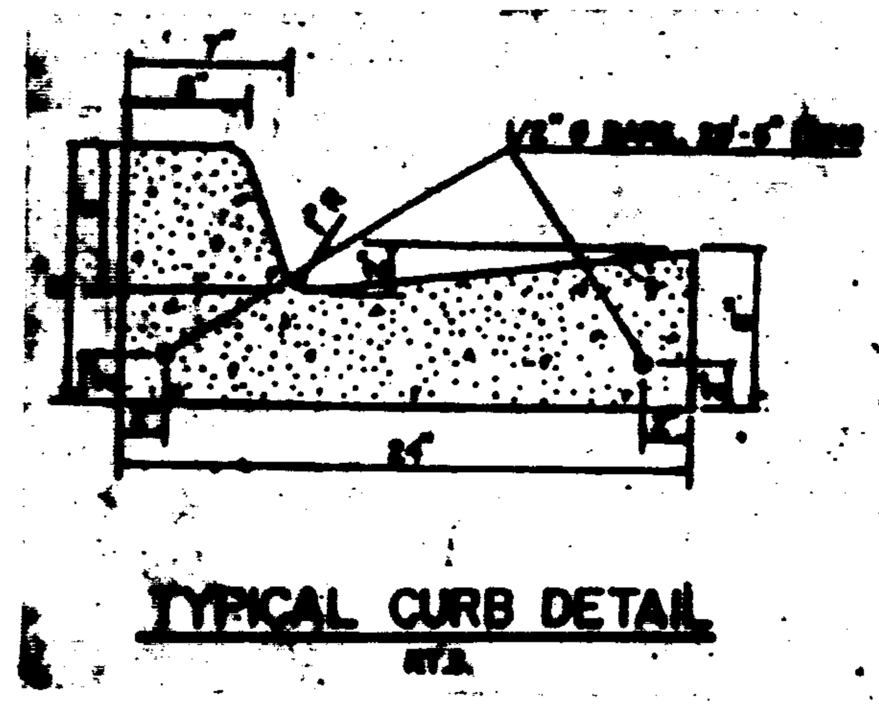
THIS DRAWING CORRECTED
AS BUILT
DATE
SIGNED

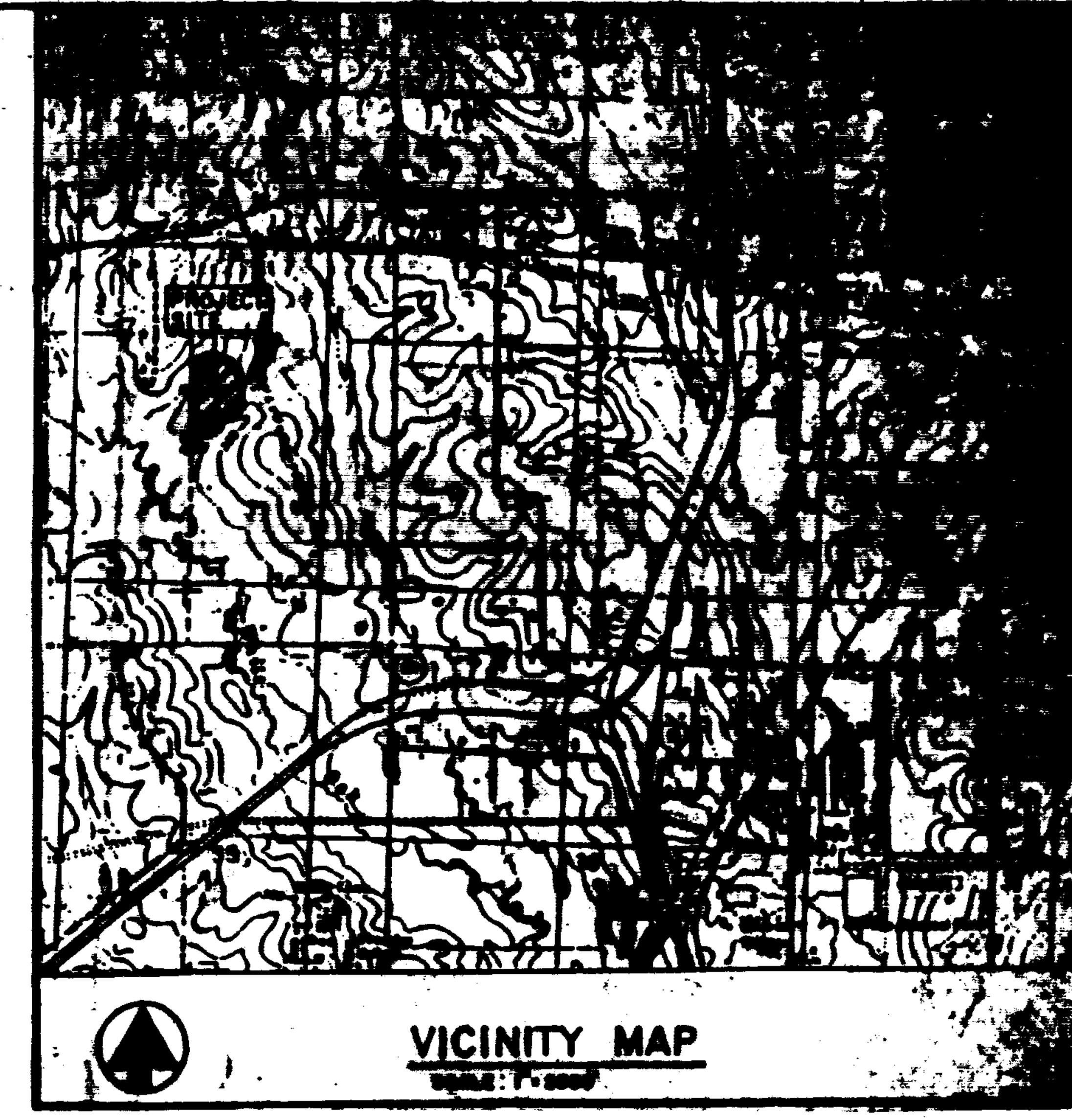
JANUARY, 1990

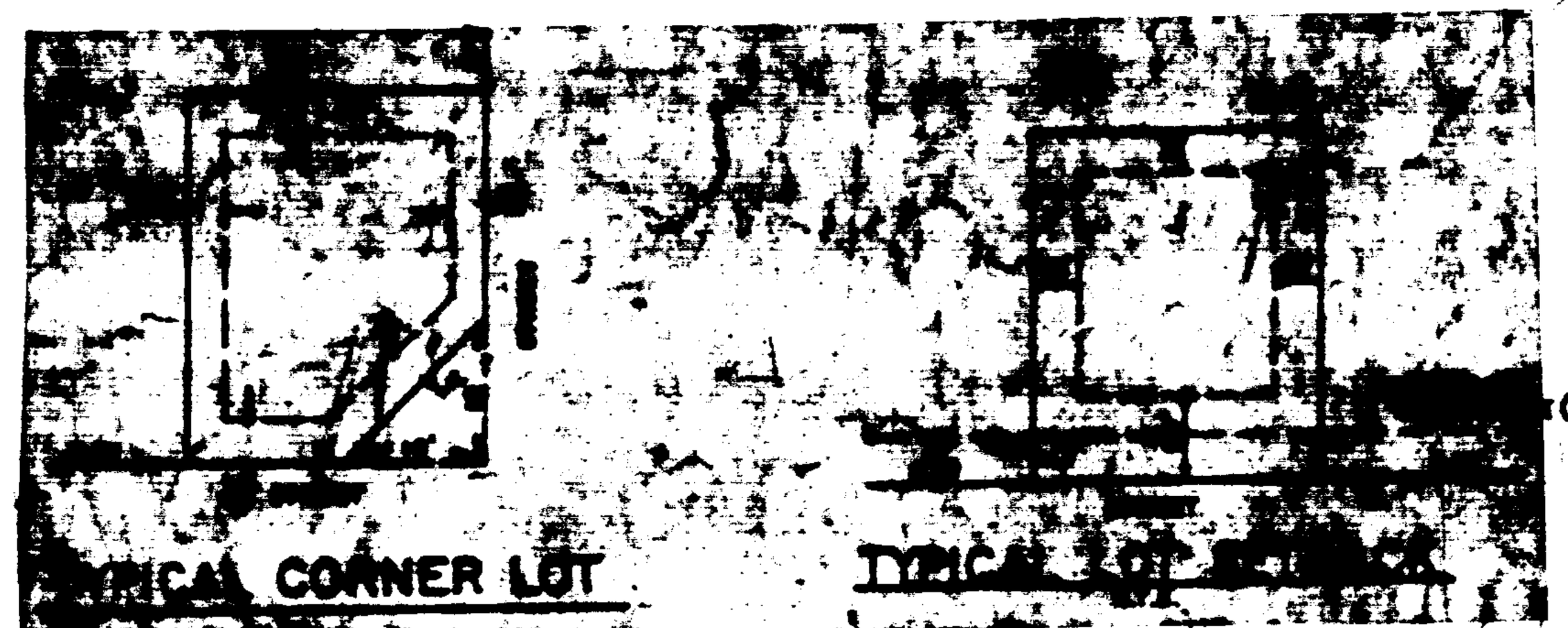
PWP00410











WESTFIELD OF DINSMOR
CURVE DATA

	CURVE "A"	℄	CURVE "B"
Δ =	14° 25' 19"	14° 25' 19"	14° 25' 19"
R =	1310.64'	1335.64'	1360.64'
T =	165.83'	168.99'	172.15'
L =	329.90'	336.19'	342.49'
CH =	329.03'	335.31'	341.58'
D =	4° 22' 18"	[illegible]° 17' [illegible]"	4° 12' 39"

	CURVE "C"	℄	CURVE "D"
Δ =	103° 30'	103° 30'	103° 30'
R =	225.00'	[illegible].00'	175.00'
T =	285.41'	253.70'	221.99'
L =	[illegible].44'	[illegible]1.30'	316.12'
CH =	[illegible].39'	314.13'	274.66'
D =	25° 27' 53"	[illegible]° 38' 52"	32° 44' 26"

	CURVE "E"	℄	CURVE "F"
Δ =	39° 00'	39° 00'	39° 00'
R =	287.39'	282.39'	307.39'
T =	[illegible]	100.00'	[illegible]
L =	[illegible]	192.22'	[illegible].22'
CH =	[illegible]	[illegible].53'	[illegible].22'
D =	2[illegible]° [illegible]' 37"	[illegible]° 17' 22"	[illegible]

[illegible]

GENERAL NOTES:

1. [illegible]
2. [illegible]
3. [illegible]
4. SURVEY IS A CLASS "B" SURVEY. CONTOURS TAKEN FROM AERIAL TOPOGRAPHIC SURVEY BY OTHERS. DATUM IS N.G.V.D.

TBM-WF-1 - ELEV.= 362.05 MSL
R.R. SPIKE IN P.P. APPROX. 170' EAST OF SE COR. OF LOT 154

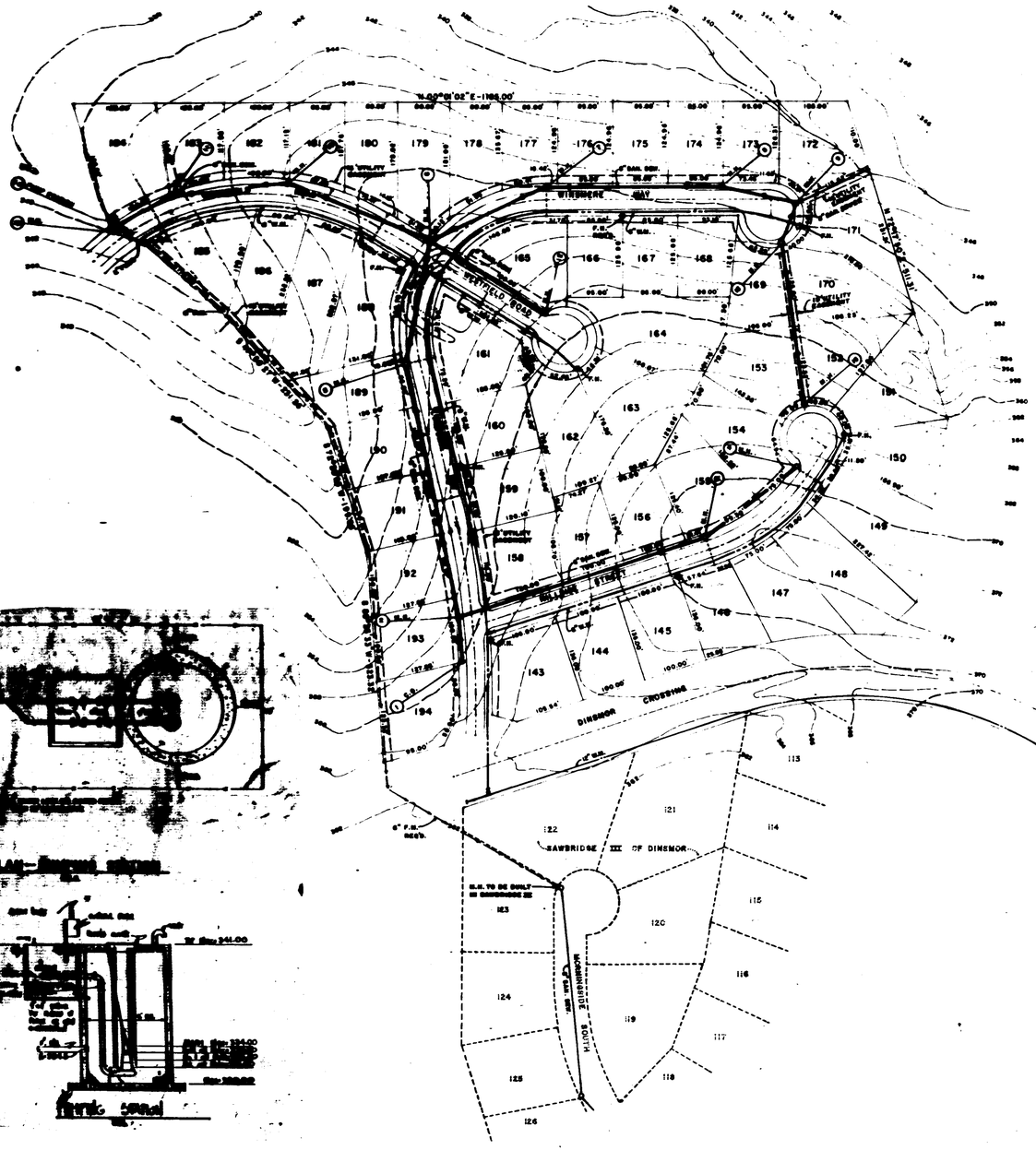
TBM #2 - ELEV.= 361.41 MSL
R.R. SPIKE IN 20" OAK NEAR NW COR. OF LOT 153

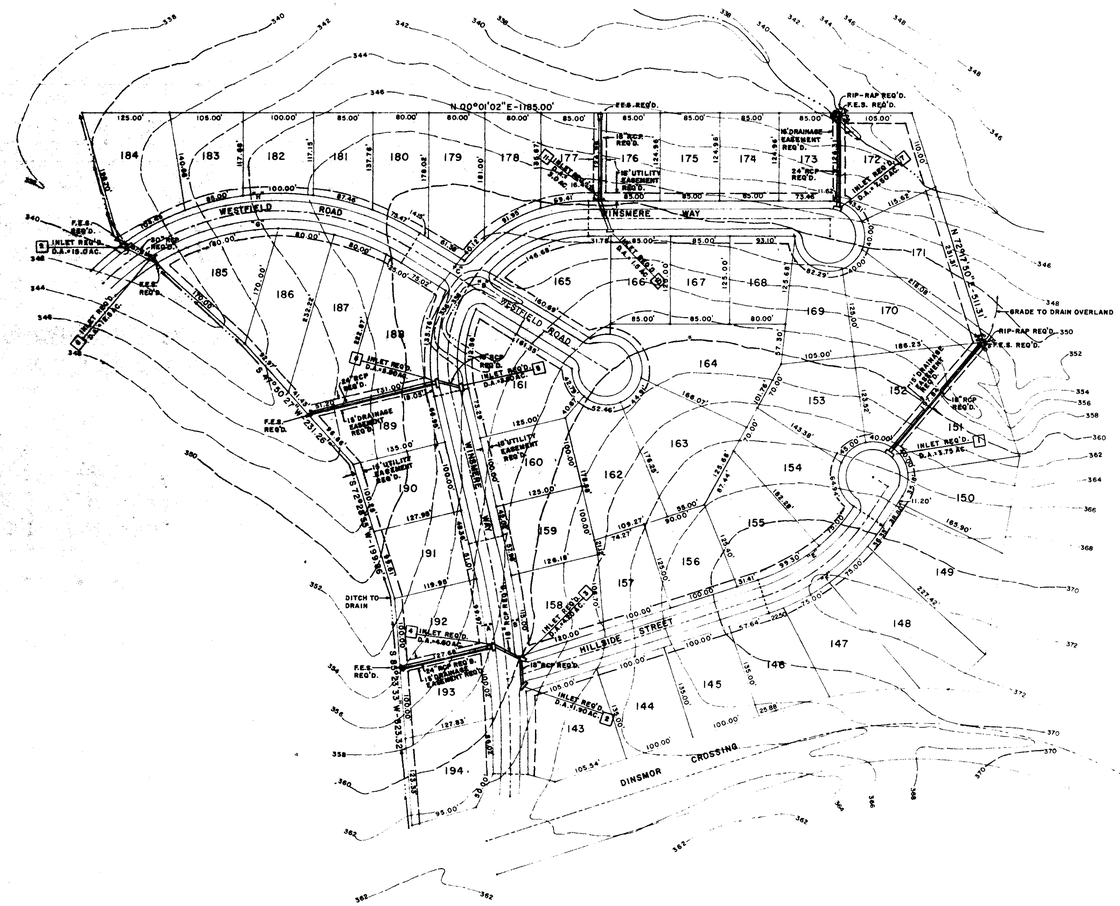
TBM #3 - ELEV.= 358.23 MSL
R.R. SPIKE IN 12" ELM NEAR SW COR. OF LOT 165

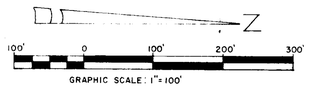
TBM #4 - ELEV.= 351.26 MSL
R.R. SPIKE IN 30" OAK NEAR SW COR. OF LOT 188

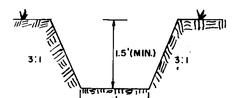
THIS DRAWING CORRECTED
AS BUILT
DATE ______
SIGNED ______

PRELIMINARY PLAT
WESTFIELD OF DINSMOR


N 89°08'02" E-1168.00'
WESTFIELD ACRES
SAWBRIDGE XXX OF DINSMOR
SAWBRIDGE SOUTH
DINSMOR CROSSING
6" P.V.C. SEWER
8" P.V.C. SEWER
8" DUCTILE IRON WATER LINE
EXISTING 8" WATER LINE
EXISTING 8" SEWER LINE
EXISTING 12" WATER LINE
EXISTING 6" WATER LINE
EXISTING 8" WATER LINE
EXISTING 6" SEWER LINE
EXISTING 8" SEWER LINE
EXISTING 12" SEWER LINE
EXISTING 6" GAS LINE
EXISTING 8" GAS LINE
EXISTING 12" GAS LINE
EXISTING 6" TELEPHONE LINE
EXISTING 8" TELEPHONE LINE
EXISTING 12" TELEPHONE LINE
EXISTING 6" ELECTRIC LINE
EXISTING 8" ELECTRIC LINE
EXISTING 12" ELECTRIC LINE
EXISTING 6" CABLE TV LINE
EXISTING 8" CABLE TV LINE
EXISTING 12" CABLE TV LINE
EXISTING 6" UTILITY LINE
EXISTING 8" UTILITY LINE
EXISTING 12" UTILITY LINE
EXISTING 6" FIRE LINE
EXISTING 8" FIRE LINE
EXISTING 12" FIRE LINE
EXISTING 6" IRRIGATION LINE
EXISTING 8" IRRIGATION LINE
EXISTING 12" IRRIGATION LINE
EXISTING 6" STORM SEWER
EXISTING 8" STORM SEWER
EXISTING 12" STORM SEWER
EXISTING 6" FORCE MAIN
EXISTING 8" FORCE MAIN
EXISTING 12" FORCE MAIN
EXISTING 6" CHILLED WATER LINE
EXISTING 8" CHILLED WATER LINE
EXISTING 12" CHILLED WATER LINE
EXISTING 6" HOT WATER LINE
EXISTING 8" HOT WATER LINE
EXISTING 12" HOT WATER LINE
EXISTING 6" STEAM LINE
EXISTING 8" STEAM LINE
EXISTING 12" STEAM LINE
EXISTING 6" CONDENSATE LINE
EXISTING 8" CONDENSATE LINE
EXISTING 12" CONDENSATE LINE
EXISTING 6" CHEMICAL LINE
EXISTING 8" CHEMICAL LINE
EXISTING 12" CHEMICAL LINE
EXISTING 6" COMPRESSED AIR LINE
EXISTING 8" COMPRESSED AIR LINE
EXISTING 12" COMPRESSED AIR LINE
EXISTING 6" VACUUM LINE
EXISTING 8" VACUUM LINE
EXISTING 12" VACUUM LINE
EXISTING 6" SLURRY LINE
EXISTING 8" SLURRY LINE
EXISTING 12" SLURRY LINE
EXISTING 6" OIL LINE
EXISTING 8" OIL LINE
EXISTING 12" OIL LINE
EXISTING 6" FUEL LINE
EXISTING 8" FUEL LINE
EXISTING 12" FUEL LINE
EXISTING 6" SANITARY SEWER
EXISTING 8" SANITARY SEWER
EXISTING 12" SANITARY SEWER
EXISTING 6" WATER LINE
EXISTING 8" WATER LINE
EXISTING 12" WAT







TYPICAL DITCH DETAIL
N.T.S.

WESTFIELD OF DINSMOR

STORM DRAINAGE COMPUTATIONS

RUNOFF: Q = CIA
C = 0.75
I = 0 INCHES/HOUR
A = DRAINAGE AREA

CAPACITY: Q = CnS 1/2 R 2/3
n = (1.49/n)* A R 2/3
A = SQFT
R = .25

NOTE: C is taken from Table 2 in the "Concrete Pipe Design Manual" published by the American Concrete Pipe Association.

INLET 1: D.A. = 2.75 AC — 18" @ 6.75%
Q = (.75)(C)(2.75) — Q = 91 (0.2178)
Q = 16.9 CFS — Q = 10.8 CFS
V = 11.2 FPS

INLET 2: D.A. = 1.90 AC — 18" @ 1.00%
Q = (.75)(C)(1.90) — Q = 91 (0.1056)
Q = 8.6 CFS — Q = 5.1 CFS
V = 6.2 FPS

INLET 3: D.A. = 2.30 + 1.90 + 4.20 AC — 18" @ 4.00%
Q = (.75)(C)(4.20) — Q = 91 (.1871)
Q = 18.5 CFS — Q = 10.3 CFS
V = 10.9 FPS

INLET 4: D.A. = .40 + 4.25 + 4.60 AC — 24" @ 1.54%
Q = (.75)(C)(6.00) — Q = 199 (.1225)
Q = 26.75 CFS — Q = 24.3 CFS
V = 7.8 FPS

INLET 5: D.A. = 3.50 AC — 18" @ 5.36%
Q = (.75)(C)(3.50) — Q = 93 (.1991)
Q = 16.8 CFS — Q = 10.4 CFS
V = 8.2 FPS

INLET 6: D.A. = 2.30 + 3.50 = 5.80 AC — 24" @ 2.50%
Q = (.75)(C)(5.80) — Q = 199 (0.1581)
Q = 26.1 CFS — Q = 31.5 CFS
V = 9.9 FPS

INLET 7: D.A. = 5.90 AC — 24" @ 2.56%
Q = (.75)(C)(5.90) — Q = 200(.1588)
Q = 22.5 CFS — Q = 31.7 CFS
V = 11.6 FPS

INLET 8: D.A. = 12.55 AC — 36" @ 2.56%
Q = (.75)(C)(12.55) — Q = 366 (.3414)
Q = 86.3 CFS — Q = 86.3 CFS
V = 11.4 FPS

INLET 10: D.A. = 1.55 AC — 18" @ 1.06%
Q = (.75)(C)(1.5) — Q = 91 (.1000)
Q = 8.75 CFS — Q = 5.1 CFS
V = 5.2 FPS

INLET 11: D.A. = 1.50 + 1.50 = 3.00 AC — 18" @ 2.50%
Q = (.75)(C)(3.0) — Q = 91 (.1581)
Q = 13.5 CFS — Q = 14.4 CFS
V = 8.1 FPS

WESTFIELD OF DINSMOR

BEFORE AND AFTER CONSTRUCTION DRAINAGE CALCULATIONS

Before Construction: (Pervious Area)
A = 20.6 Acres
I = 4.4 inches/hour
C = 0.6
Q = CIA,
= (0.6)(4.4)(20.6)
= 54.4 cfs

Total: Before Construction Runoff = 54.4 cfs

After Construction: (Pervious Area)
A = 16.3 Acres
I = 4.4 inches/ hour
C = 0.6
Q = CIA
= (0.6)(4.4)(3.5)
= 43.0 cfs

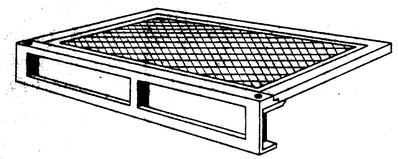
After Construction: (Impervious Area)
A = 43.0 Acres
I = 4.4 inches/hour
C = 0.9
Q = CIA
= (0.9)(4.4)(43.0)
= 17.0 cfs

Total: After Construction Runoff = 60.0 cfs

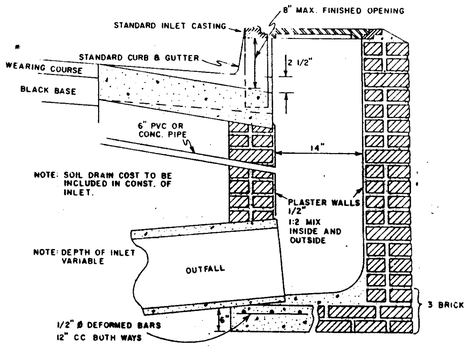
SUMMARY:

After Construction Runoff = 60.0 cfs
Before Construction Runoff = 54.4 cfs
Additional Runoff = 5.6 cfs

THIS DRAWING APPROVED AS BUILT
DATE 2/14/90
ISSUED BTH



STANDARD CURB INLET CASTING
(VULCAN RCB-7)



SECTION OF STANDARD CURB INLET

DRAINAGE PLAN
WESTFIELD OF DINSMOR

SITUATED IN THE NE 1/4 OF SECTION 26, T7N-R1E, MADISON COUNTY, MISSISSIPPI

DEVELOPED BY : S.M.C.D.C. INC. GENERAL PARTNER
5 LAKELAND CIRCLE JACKSON, MS

REV.-APRIL 9,1990
JANUARY 12,1990

CENTRAL MISSISSIPPI ENGINEERING
P.O. BOX 4506 JACKSON, MS 39296-4506 601-355-6439

TBM WF-1=342.05 MSL
R.R. SPIKE IN P.F. APPROX.
110' EAST OF SE COR.
OF LOT 194

5' UTILITY EASEMENT

F.E.S. E=352.30
18"-24" R.C.P. @ 1.50% REQ'D

15' DRAINAGE EASEMENT

CURB INLET D.A.=0.4 AC. E=348.30

WINSMERE WAY

"A"

400'-8" SAN. SEW. @ 1.46%

CURB INLET D.A.=0.4 AC. E=345.30

15' UTILITY EASEMENT

CURB INLET D.A.=0.4 AC. E=343.30

MH E=343.30

CURB INLET D.A.=0.4 AC. E=342.30

MH E=342.30

WESTFIELD ROAD

WESTFIELD ROAD (SOUTH)

1440'-8" SAN. SEW. @ 3.71%

1440'-8" SAN. SEW. @ 3.71%

WINSMERE WAY & WESTFIELD ROAD (SOUTH)

MH E=342.30

CURB INLET D.A.=0.4 AC. E=342.30

TBM#2-ELEV.=361.41 MSL
R.R. SPIKE IN 20" OAK NEAR
NW COR. OF LOT 153
CURVE "K"
CURVE "F"
Δ = 39° 00'
R = 257.39'
T = 91.16'
L = 175.20'
CH = 171.84'
D = 22° 15' 37"
39° 00'
282.39'
100.00'
192.22'
188.53'
20° 17' 22"
39° 00'
307.39'
108.85'
209.23'
205.22'
18° 38' 22"
RIP-RAP REQ'D.
F.E.S.
8" SAN. SEWER
15' UTILITY EASEMENT
15' DRAINAGE EASEMENT
200'-18" RCP @ 4.75%
CURB INLET
D.A.=3.75 AC.
E=342.50
F.H.
M.H.
M.H. REQ'D.
HILLSIDE STREET
WINSMERE WAY
15' DRAINAGE EASEMENT
0+00 HILLSIDE ST.=
1+66.20 WINSMERE WAY
CURB INLET
D.A.=1.5 AC.
E=356.40
10' UTILITY EASEMENT
TBM#3-ELEV.=358.23 MSL
R.R. SPIKE IN 12" ELM NEAR
SW COR. OF LOT 165
P.T.=0+44.10
RAD. PT.=2+31.12
10' UTILITY EASEMENT
WESTFIELD ROAD
0+00-WESTFIELD ROAD (NORTH)=
0+00-WESTFIELD ROAD (SOUTH)=
7+42.11-WINSMERE WAY
8" W.M.
PLAN·PROFILE-HILLSIDE STREET
SCALE: 1"=50' (HORZ.) / 1"=5' (VERT.)
PLAN·PROFILE-WESTFIELD ROAD
SCALE: 1"=50' (HORZ.) / 1"=5' (VERT.)
100' V.C.
N.G.
15'-8" SAN. SEW. @ 0.40%
210'-8" SAN. SEW. @ 5.40%
CURB INLET
M.H.
FINISH GRADE

THIS DRAWING CORRECTED AS BUILT

DATE ____________

SIGNED ____________

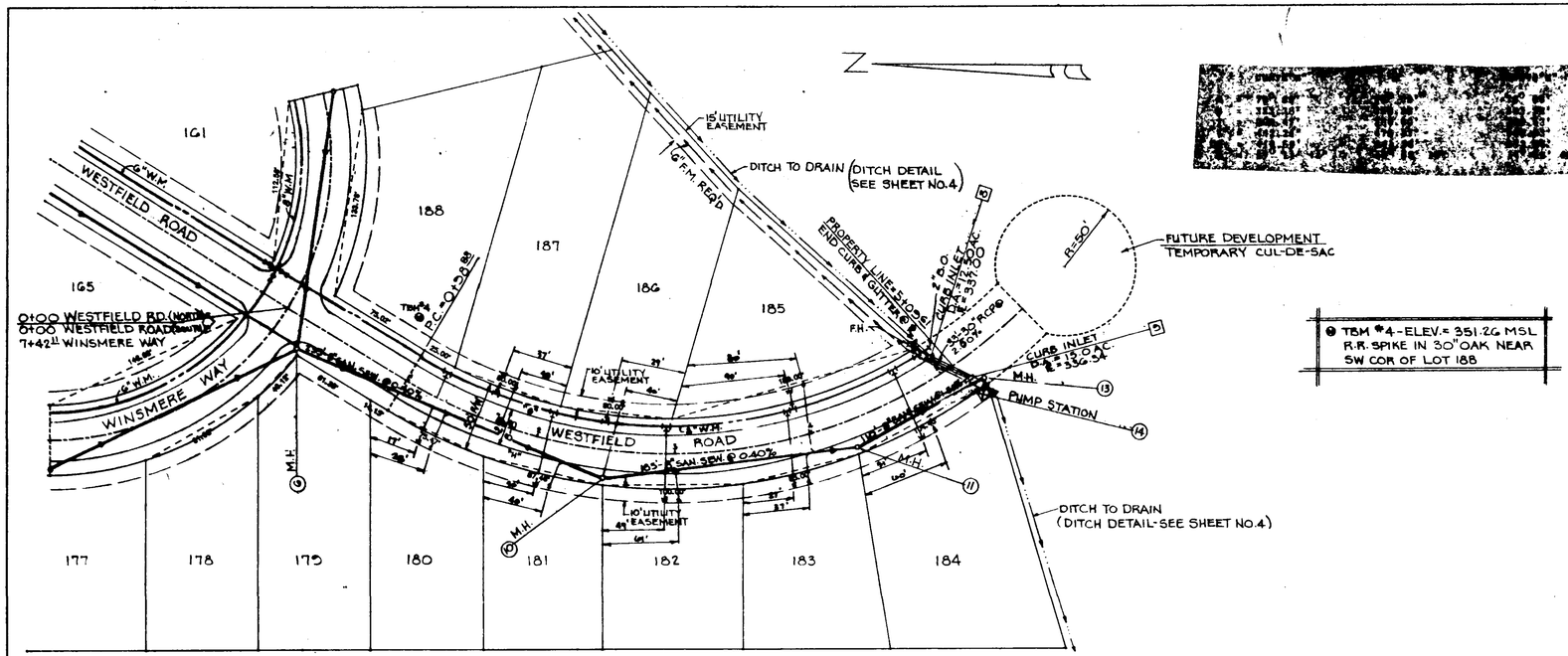
PLATE 1-SINGLE PLAN AND PROFILE

WESTFIELD OF DINSMOR-PLAN-PROFILE
HILLSIDE STREET, WESTFIELD ROAD

JANUARY 12, 1950,
REV. APRIL 5, 1950

PLAN · PROFILE - WESTFIELD ROAD

SCALE: 1"=50' (HORIZ.) / 1"=5' (VERT.)



● TBM #4 - ELEV.= 351.26 MSL
R.R. SPIKE IN 30" OAK NEAR SW COR OF LOT 188