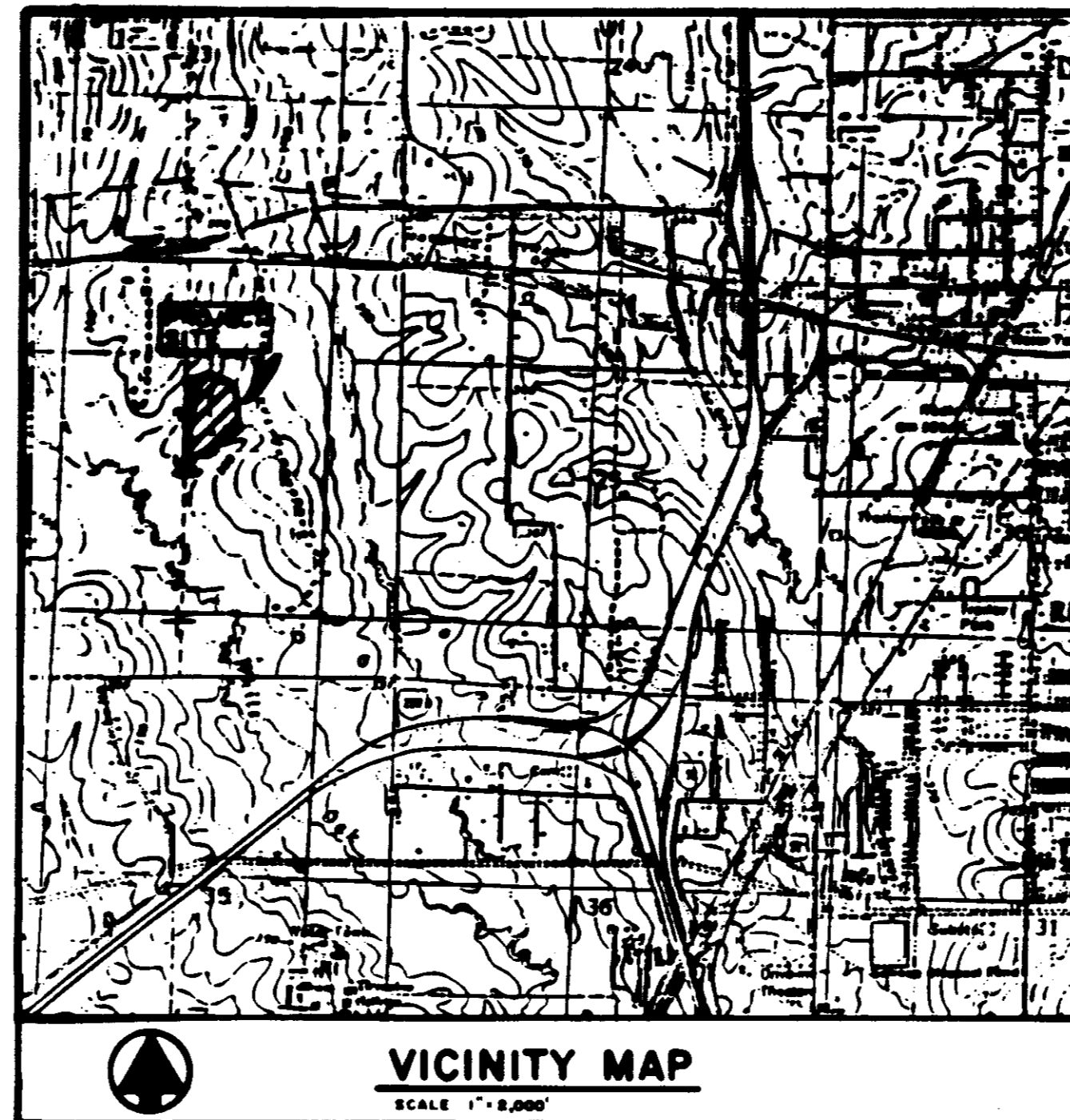


CONSTRUCTION PLANS
WESTFIELD OF DINSMOR
SITUATED IN THE NE 1/4 OF SECTION 26,
T7N-R1E, MADISON COUNTY, MISSISSIPPI



INDEX OF DRAWINGS

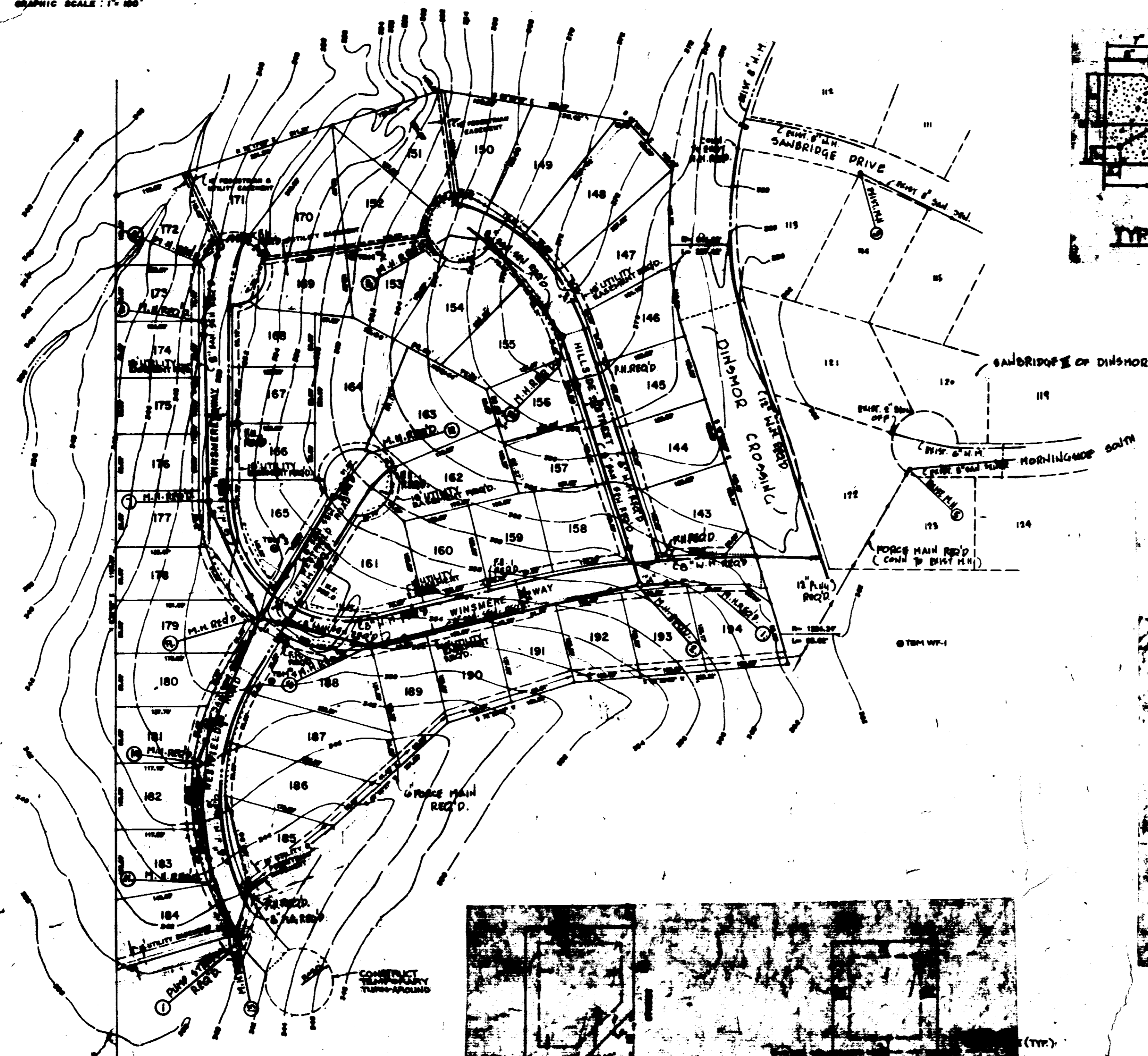
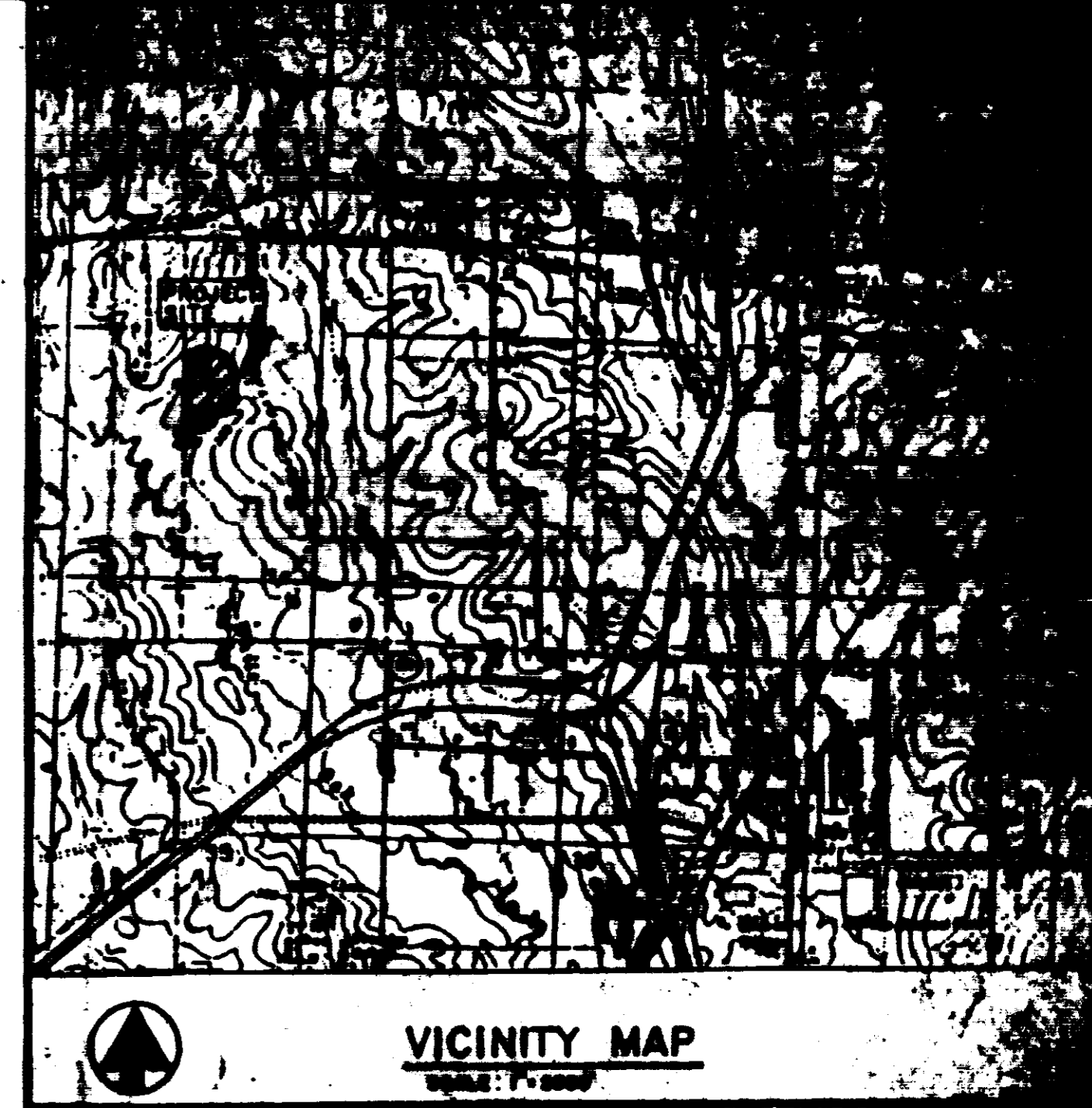
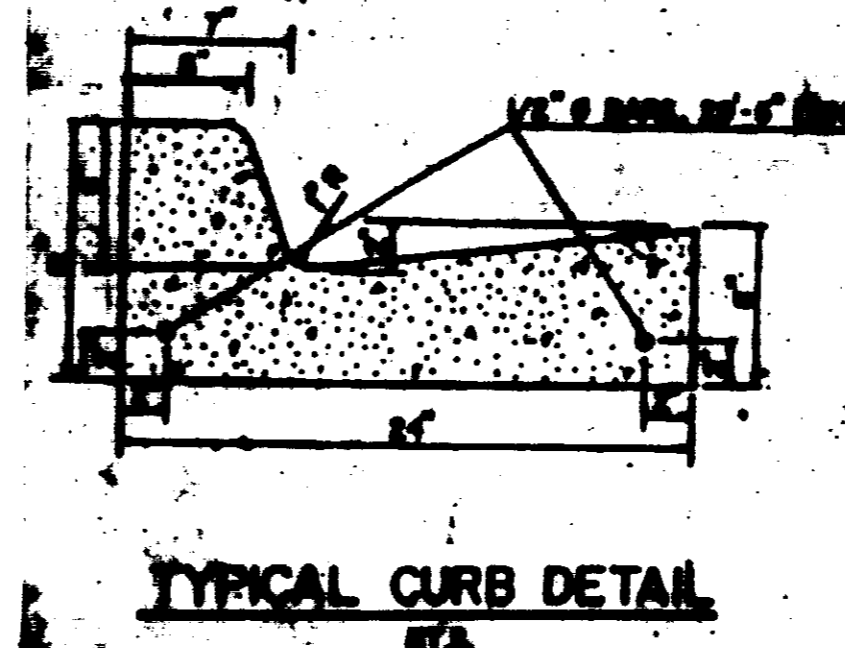
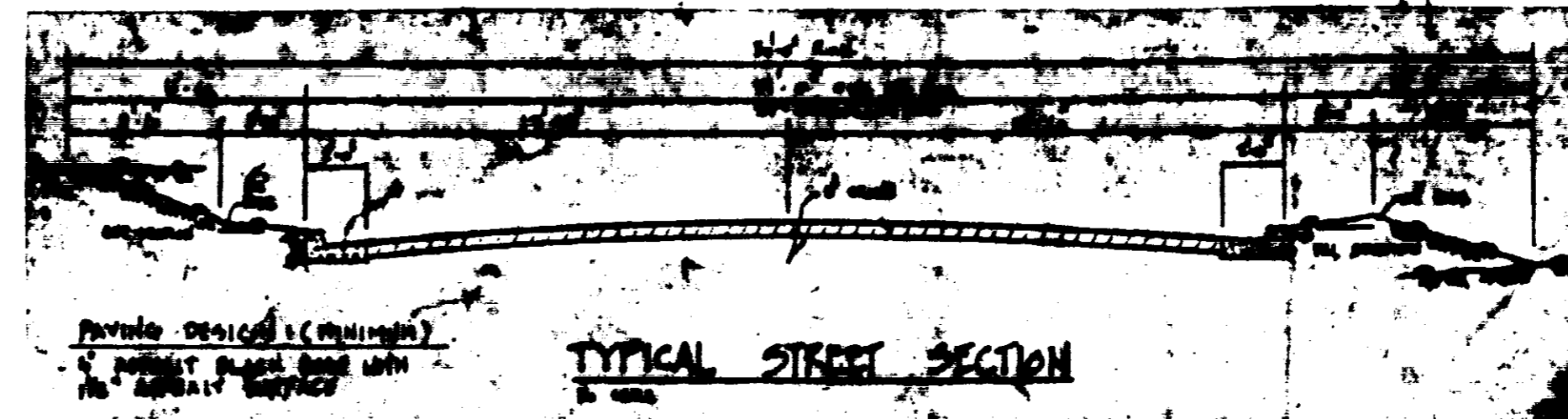
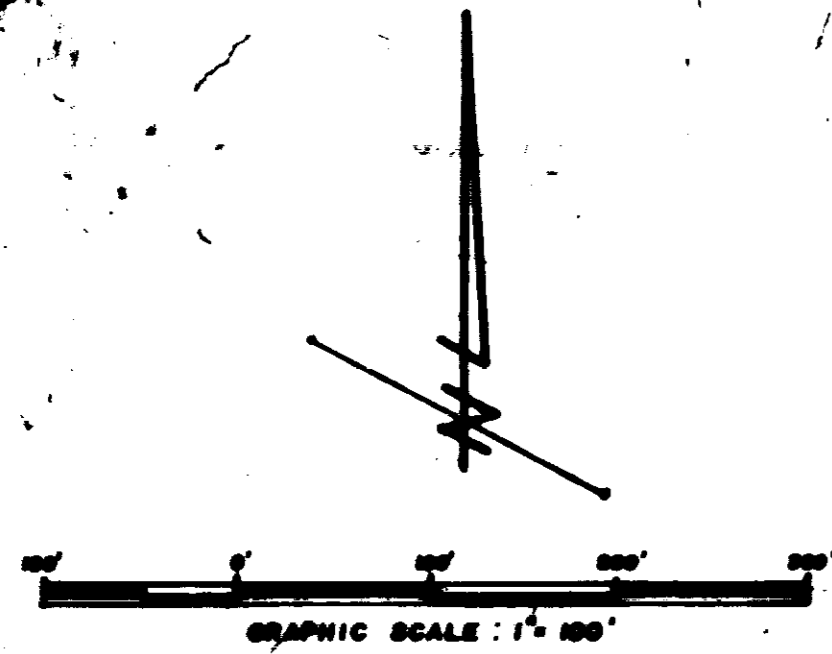
| <u>SMT NO</u> | <u>DESCRIPTION</u> |
|---------------|---|
| 1 | COVER SHEET |
| 2 | PRELIMINARY PLAT |
| 3 | UTILITY PLAN |
| 4 | DRAINAGE PLAN |
| 5 | PLAN - PROFILE - WINSMERE WAY |
| 6 | PLAN - PROFILE - HILLSIDE STREET / WINSMERE COURT |
| 7 | PLAN - PROFILE - WESTFIELD ROAD |
| 8 | STANDARD SAN. 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

PWP 00410



WESTFIELD OF DINSMOR
 CURVE DATA

| CURVE "A" | | CURVE "B" | |
|-----------|-------------|-------------|-------------|
| A | 14° 25' 19" | 14° 25' 19" | 14° 25' 19" |
| B | 1319.04' | 1326.04' | 1326.04' |
| T | 165.83' | 168.90' | 172.15' |
| Y | 329.93' | 326.19' | 348.49' |
| CS | 329.93' | 326.31' | 347.98' |
| CA | 4° 22' 18" | 4° 17' 33" | 4° 12' 39" |

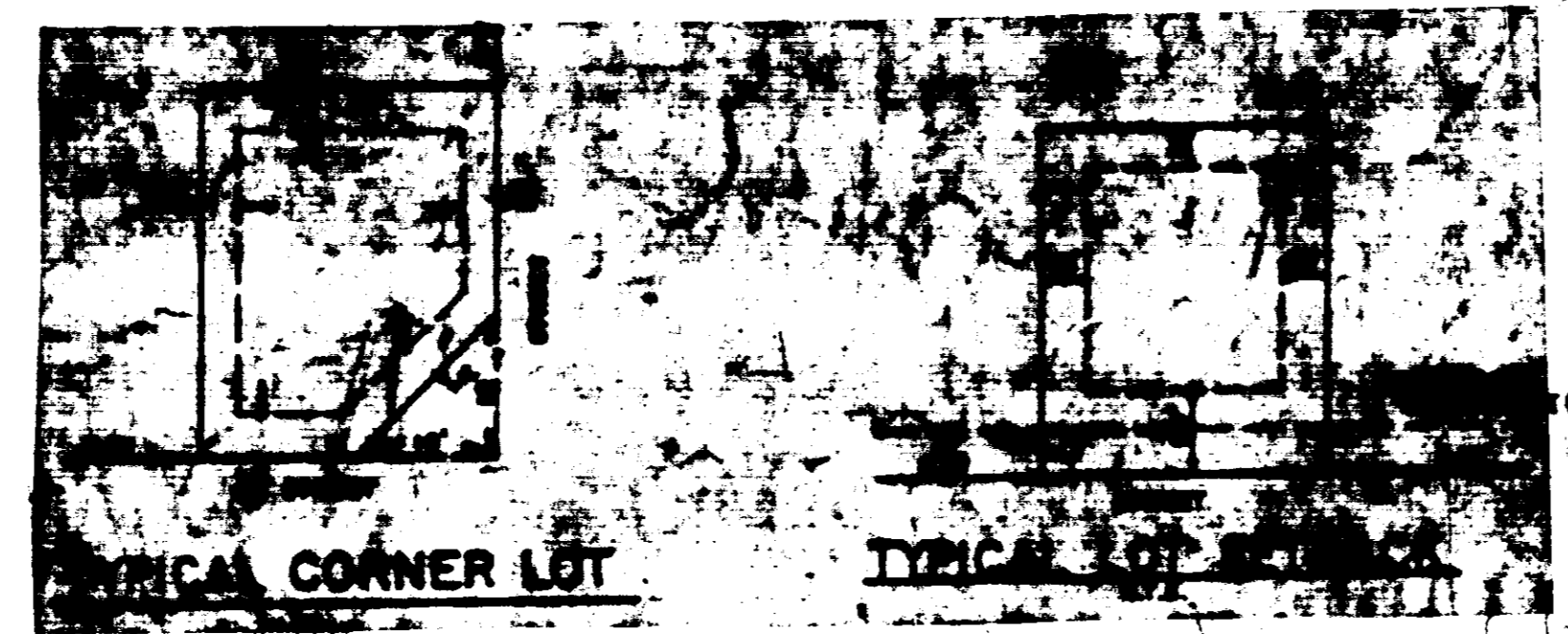
| CURVE "C" | | CURVE "D" | |
|-----------|-------------|-------------|-------------|
| A | 102° 30' | 102° 30' | 102° 30' |
| B | 825.00' | 800.00' | 175.00' |
| T | 200.44' | 205.70' | 211.90' |
| Y | 400.88' | 391.30' | 316.12' |
| CS | 400.88' | 314.13' | 274.00' |
| CA | 25° 27' 53" | 25° 30' 52" | 25° 44' 26" |

| CURVE "E" | | CURVE "F" | |
|-----------|-------------|-------------|-------------|
| A | 30° 30' | 30° 00' | 30° 00' |
| B | 207.39' | 202.30' | 207.39' |
| T | 99.18' | 100.00' | 100.00' |
| Y | 198.36' | 199.20' | 199.20' |
| CS | 198.36' | 199.20' | 199.20' |
| CA | 25° 18' 27" | 25° 17' 50" | 25° 17' 50" |

GENERAL NOTES:

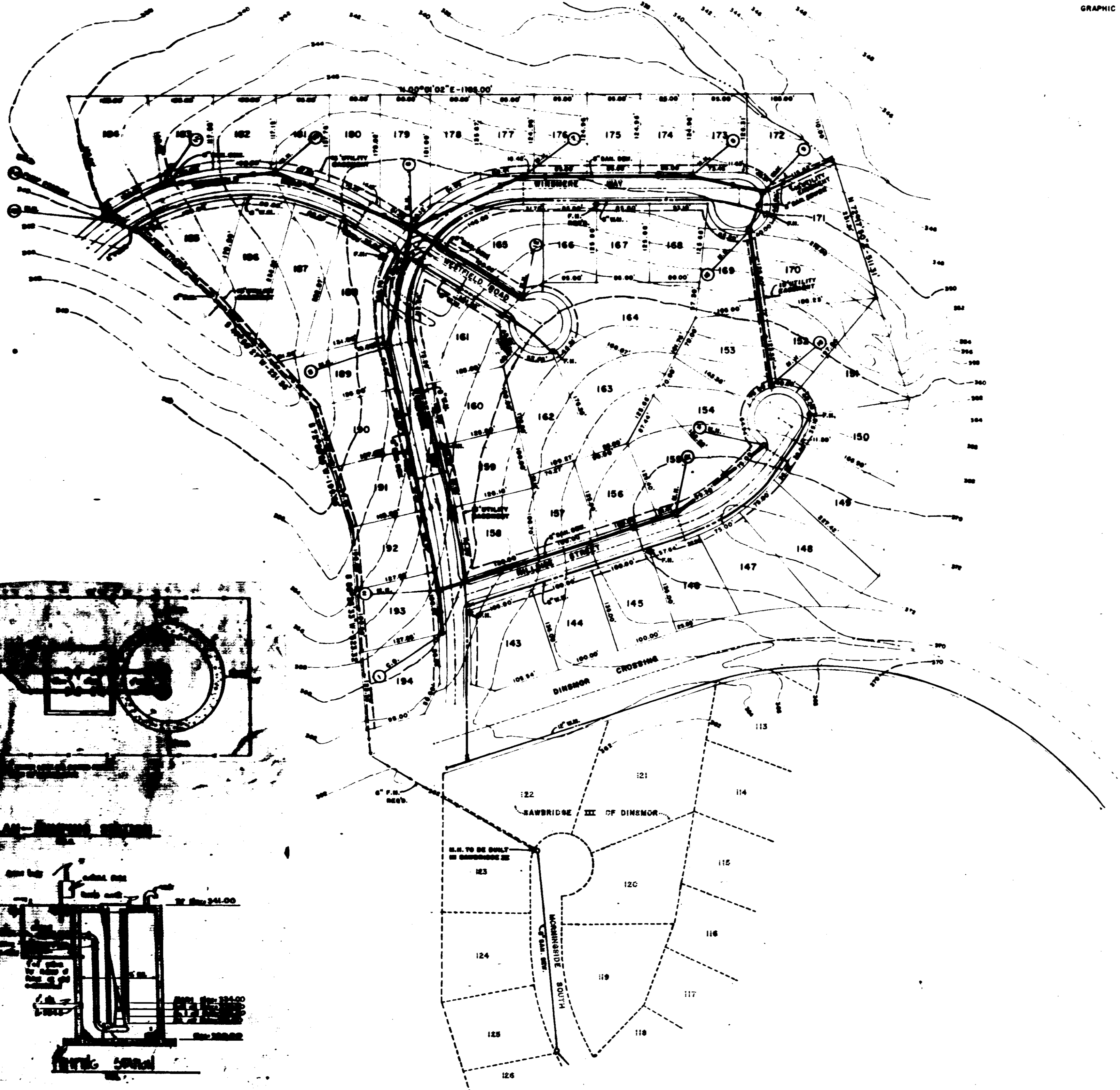
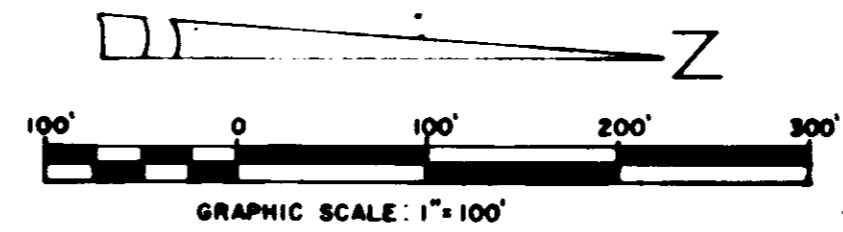
1. THE PROPERTY IS SHOWN IN 20' PLATS, WITH PLATS BEING CORRECTED TO 1900.
2. THE PROPERTY IS SHOWN IN 20' PLATS, WITH PLATS BEING CORRECTED TO 1900.
3. THE PROPERTY IS SHOWN IN 20' PLATS, WITH PLATS BEING CORRECTED TO 1900.
4. SURVEY IS A CLASS "B" SURVEY. CONTOURS TAKEN FROM AERIAL TOPOGRAPHIC SURVEY BY STUBBS, BATHEN & BAYNE.

- TBM #1 - ELEV.= 362.05 MSL
 R.R. SPIKE IN R.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.= 355.23 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



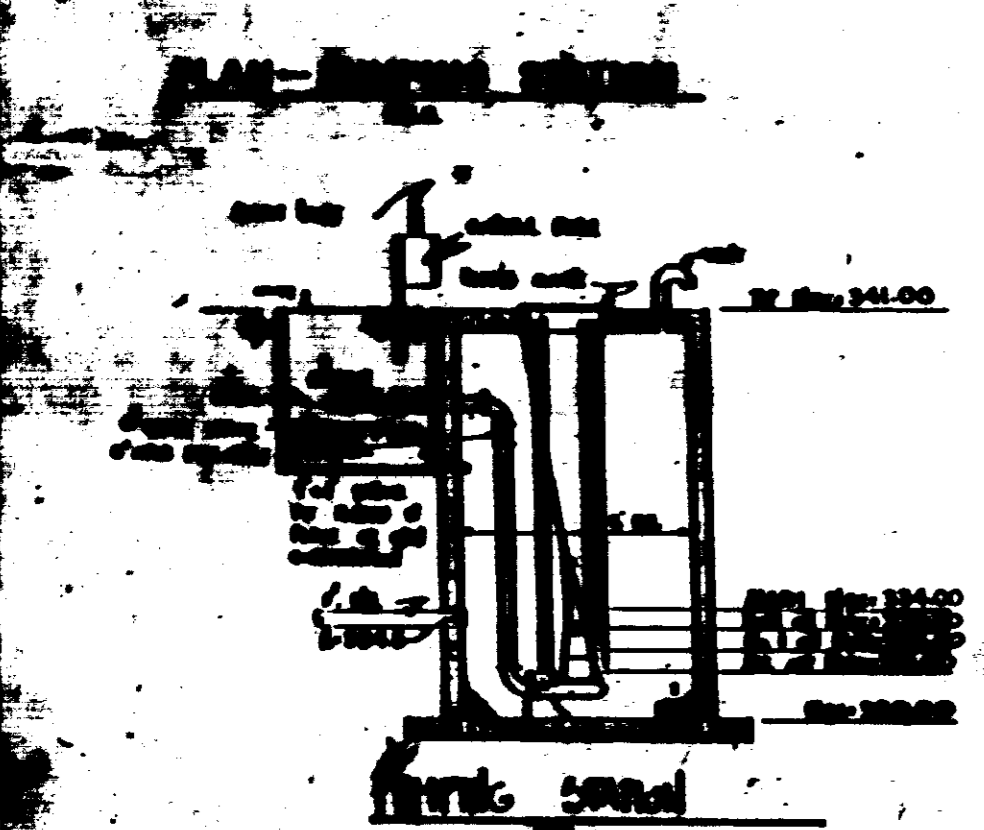
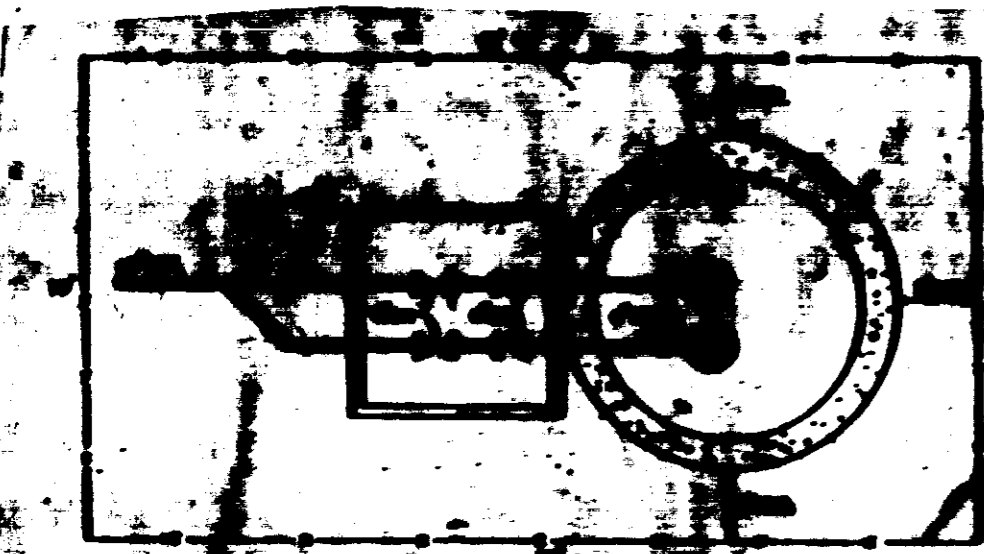
This DRAWING CORRECTED
 AS BUILT
 DATE _____
 ENGINEER _____

PRELIMINARY PLAT
 WESTFIELD OF DINSMOR



SEWER SPECIFICATIONS

- 1-All sewer main and services shall be Extra Strength Vitrified Clay Pipe (ASTM C-700), ABS sewer pipe (ASTM D-3050), or PVC sewer pipe (ASTM D 3024) EDR 35.
- 2-Manholes to be precast concrete conforming to ASTM C-478. All manholes shall be waterproofed and shall have watertight flexible connections at inlets and outlets.
- 3-Manhole castings to be Harper No. 1, NRP Standard, or approved equal.
- 4-Sewer mains to be tested by air per ASTM C 828, results to be furnished to the ENGINEER and the UTILITY. PVC sewer pipe to have a maximum of 5.0% deflection as determined by the pulling of a 55 mandrel after the pipe has been backfilled for at least 30 days.
- 5-All sewer services to be marked at the property line with a 2" diameter creosote post or other acceptable marker.
- 6-Bedding for sewer pipe shall be Class "C" in accordance with ASTM C-12 for rigid pipe and Class III in accordance with ASTM D 2321 for flexible pipe.
- 7-Manholes shall be waterproofed with an application of KOPPERS 300 N Coal Tar Epoxy or approved equal, inside and outside.
- 8-All sewer 24 inches or less will be laid with straight alignment between manholes and will be checked by either laser or leveling methods.
- 9-All backfill will be of suitable material, hand tamped to (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-Leakage tests shall include appropriate water or low pressure air testing. The leakage outward or inward (exfiltration or infiltration) shall not exceed 200 gallons per inch of pipe diameter per mile per day (9.19 m³/cm of pipe dia./day) for any section of the system. An exfiltration or infiltration test shall be performed with a minimum positive head of 2 feet (0.61 m). The air test, if used, shall, as a minimum conform to the test procedure described in ASTM C-828-76T, entitled "Testative Recommended Practice for Low-Pressure Air Test of Vitrified Clay Pipe Lines". The testing methods selected should take into consideration the range in ground water elevations projected and the situation during the test.
- 12-FORCE MAIN to be constructed of class 150 pvc, rubber ring push on joints, NSF approved with minimum 36" cover.
- 13-FORCE MAIN to be pressure tested in accordance with ANWA Standard C-600-77, Section 4, results to be furnished to the Engineer.



**WESTFIELD OF DINSMOR
MECHANICAL SPECIFICATIONS**

PUMPING STATION:

The pumping station will be capable of pumping 100 gpm at a 44 TDR. The pump will be duplex with slide rail assembly. Pumps shall be capable of passing 3 inch solids and shall be pedestal type with automatic level controls for rotating and simultaneous operation. Motors to be 5 HP single phase 230 V. Tungsten carbide seals are required.

PUMP STATION: 100 GPM @ 44 TDR; 5 HP SINGLE PHASE; 230 volt; 1760 RPM 7.56" IMP. DIA.
Hydrostatic 500M or approved equal

CONTROL PANEL:

The control panel shall have Dead Front NEMA 4 or NEMA 3-R with interior door, having all controls customarily used by operator; and shall contain the following:

- a. Two Run-Time meters, one for each pump
- b. Green run and amber failure lights
- c. 5-0-A switch for each pump
- d. 150 watt Condensation heater
- e. Seal Failure Sensor and Night in panel (red)
- f. Low/High voltage protection
- g. Phase failure and lightning protector.

Notes:

1. There shall be no junction box inside of wet well.
2. Three pump of 2 inch, minimum diameter conduit from the control panel for float switches, and one for each pump's wiring.
3. Valves shall be flanged, standard ANWA with non-rising stems, iron bodies, bronze mounted and tested to 500 psi, Mueller or American
4. Control wires to be sealed air-tight at panel and wet well.

**UTILITY PLAN
WESTFIELD OF DINSMOR**

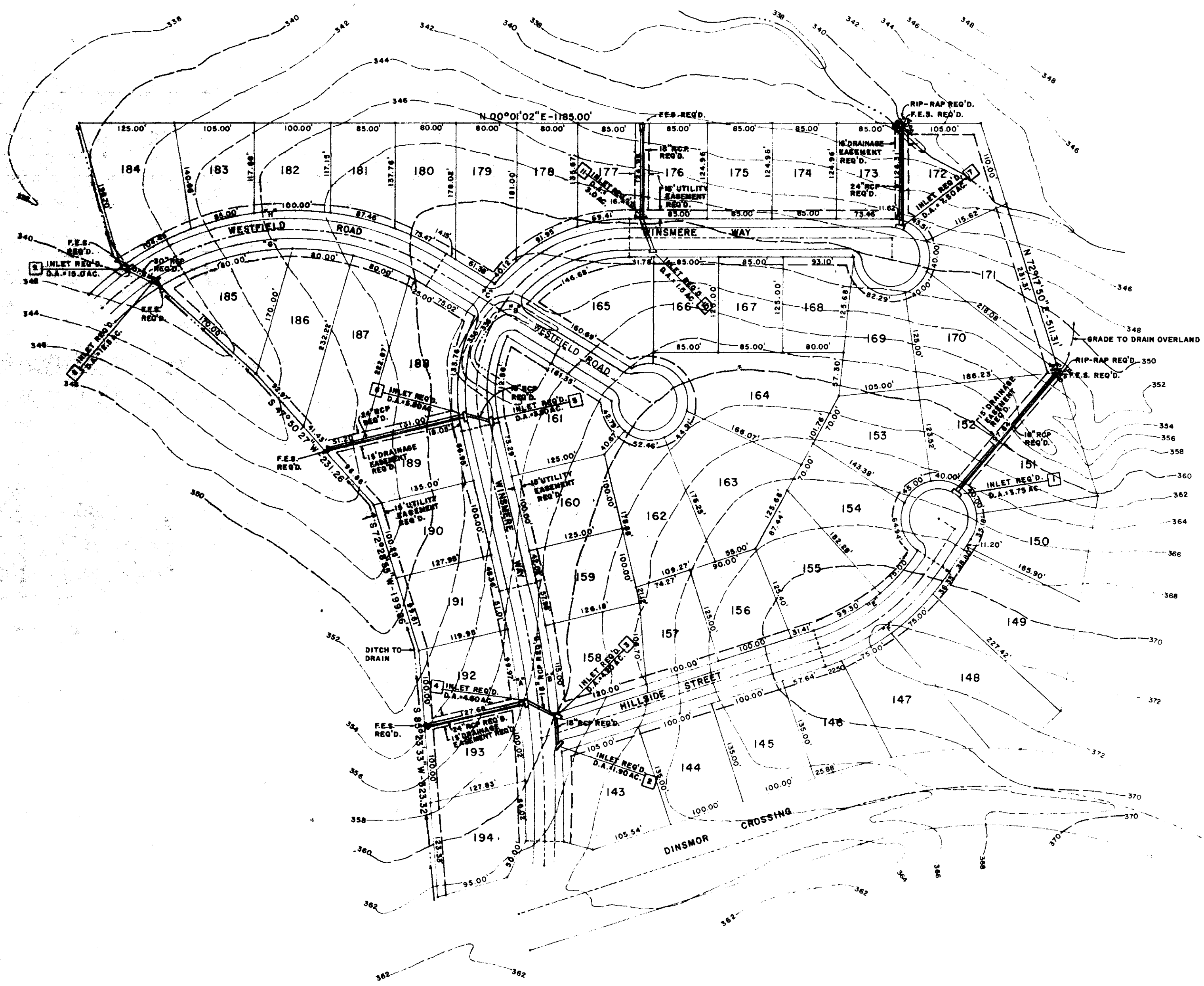
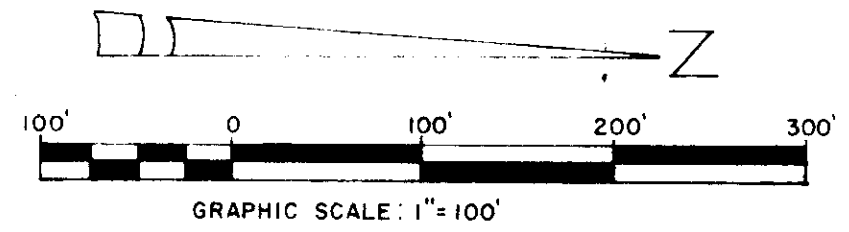
SITUATED IN THE NE 1/4 OF SECTION 26, 7TH-R1E, MADISON COUNTY, MISSISSIPPI

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 4305 JACKSON, MS 39204-4305 601-366-6139



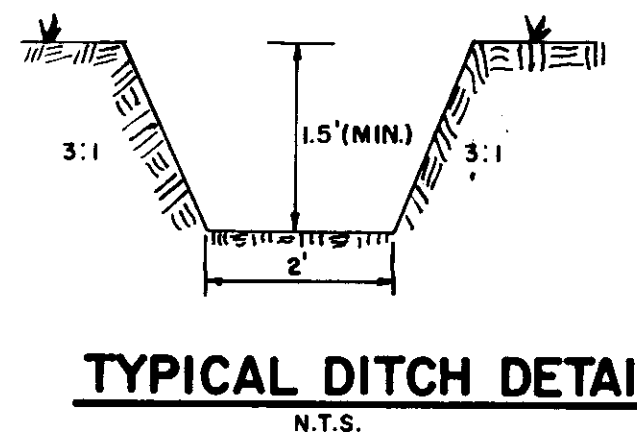
WESTFIELD OF DINSMOR
STORM DRAINAGE COMPUTATIONS

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

CAPACITY: $Q = CFS$
 $C = F(1.4876) A R^{2/3}$
 $n = 0.015$
 $R = 0.58$

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

| INLET | D.A. = AC | Q = (CFS) | V = FPS |
|----------|-----------------------|-----------|---------|
| INLET 1 | 2.78 AC | 18.0 | 11.5 |
| INLET 2 | 1.90 AC | 12.6 | 8.2 |
| INLET 3 | 2.30 + 1.90 = 4.20 AC | 28.2 | 18.9 |
| INLET 4 | 4.0 + 4.20 = 8.20 AC | 54.4 | 35.8 |
| INLET 5 | 3.50 AC | 23.5 | 15.5 |
| INLET 6 | 2.30 + 3.50 = 5.80 AC | 39.1 | 25.5 |
| INLET 7 | 0.90 AC | 6.0 | 4.0 |
| INLET 8 | 12.50 AC | 82.5 | 54.0 |
| INLET 10 | 1.50 AC | 10.0 | 6.5 |
| INLET 11 | 1.50 + 1.60 = 3.00 AC | 20.4 | 13.5 |



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
 $C = 0.6$
 $Q = CIA$
 $= (0.6)(4.4)(16.3)$
 $= 43.0$ 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 COMPUTED
 AS PART
 CASE 9/14/90
 BY BTH

DRAINAGE PLAN
WESTFIELD OF DINSMOR

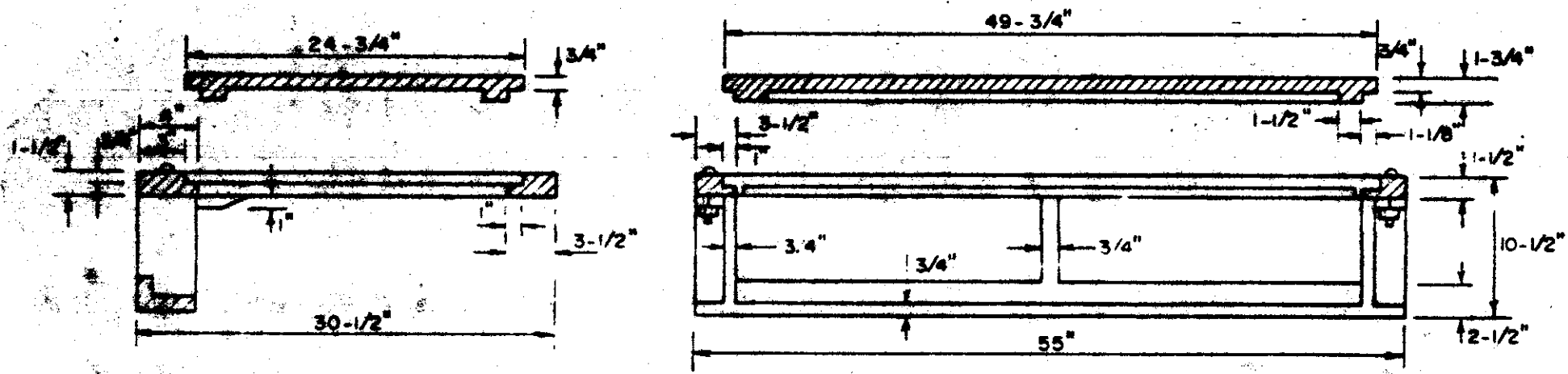
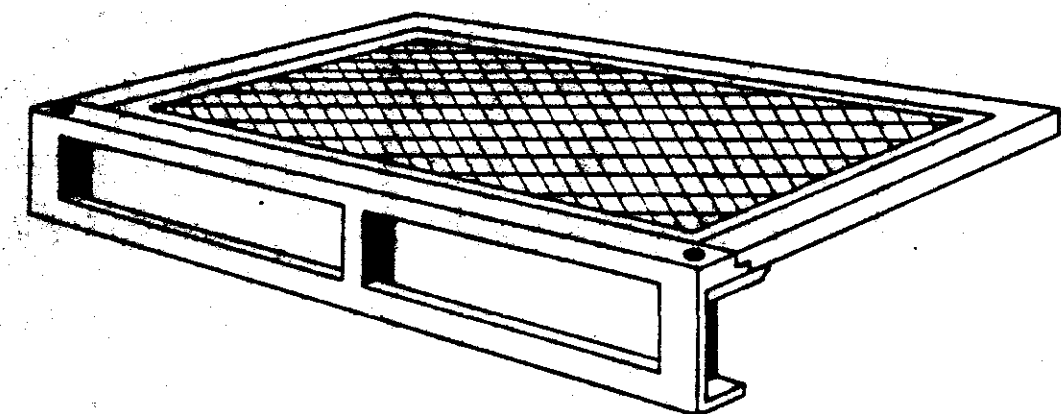
SITUATED IN THE NE 1/4 OF SECTION 26, T7N-R1E,
 MADISON COUNTY, MISSISSIPPI

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

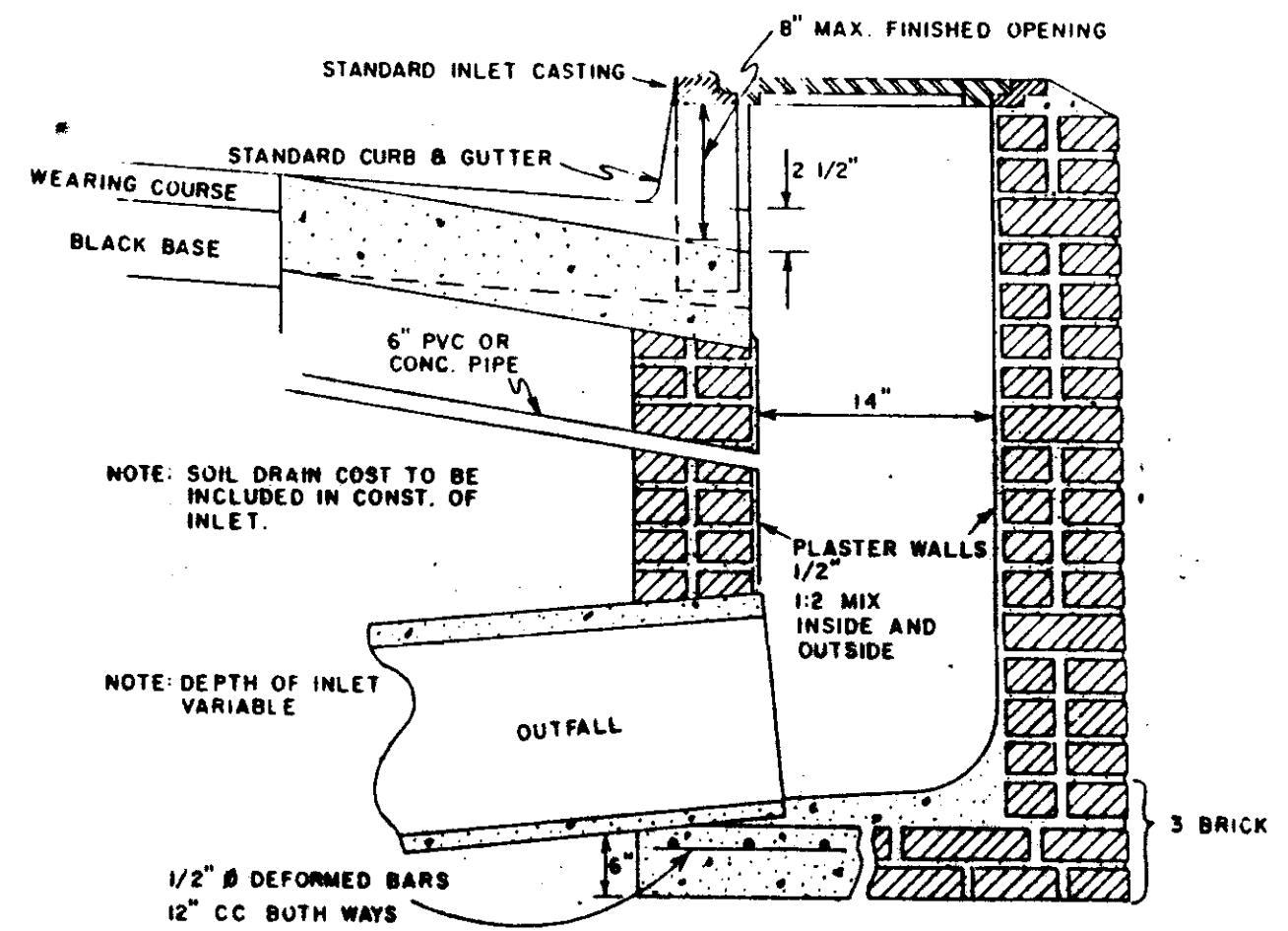
REV. APRIL 9, 1990
 JANUARY 12, 1990

CENTRAL MISSISSIPPI ENGINEERING

P.O. BOX 4506 JACKSON, MS 39206-4506 601-365-6439



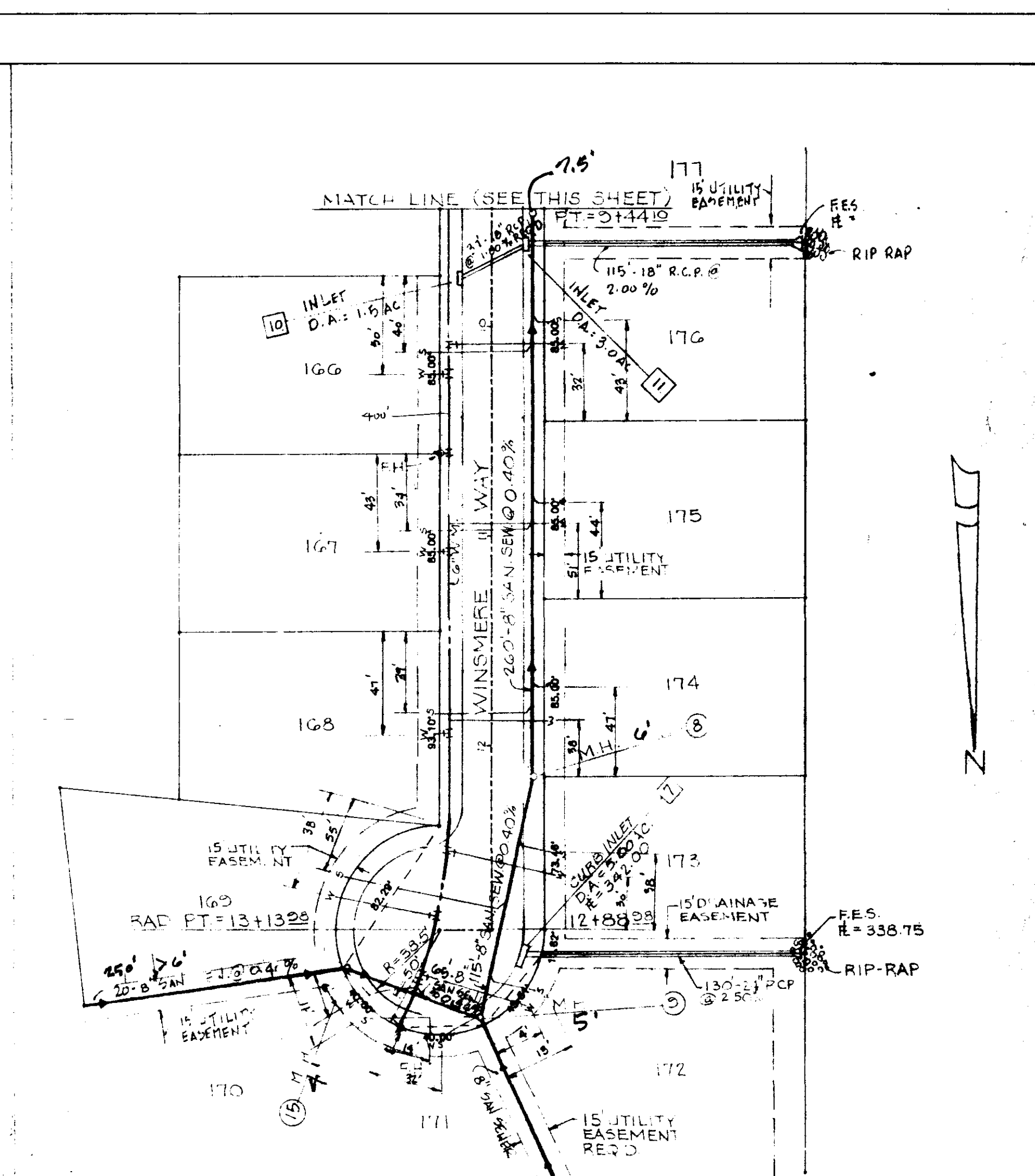
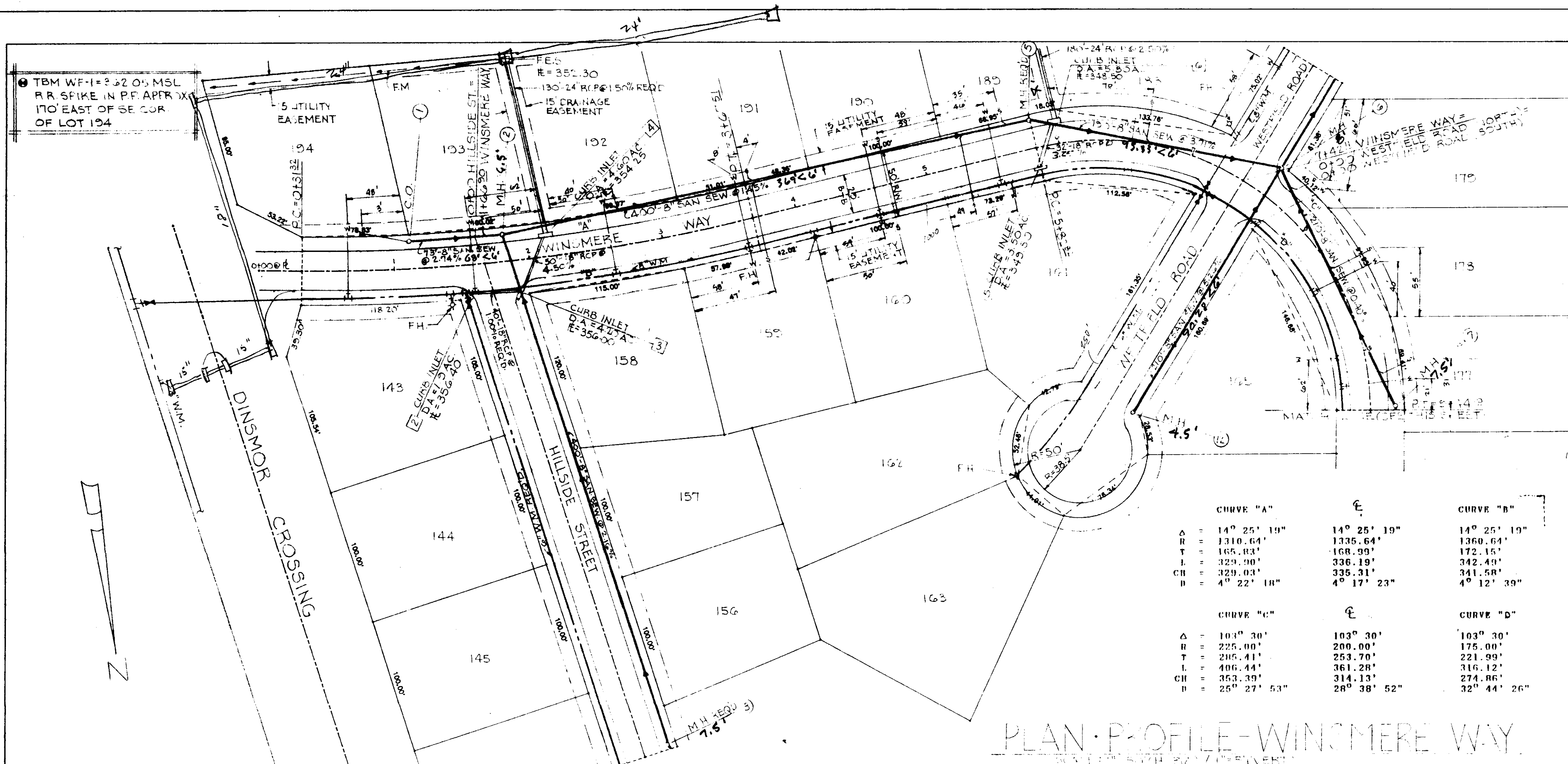
STANDARD CURB INLET CASTING
 (VULCAN RCB-7)



SECTION OF STANDARD CURB INLET

PLAN
 SURVED
 NOTED
 NOTE BOOK
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED
 No.

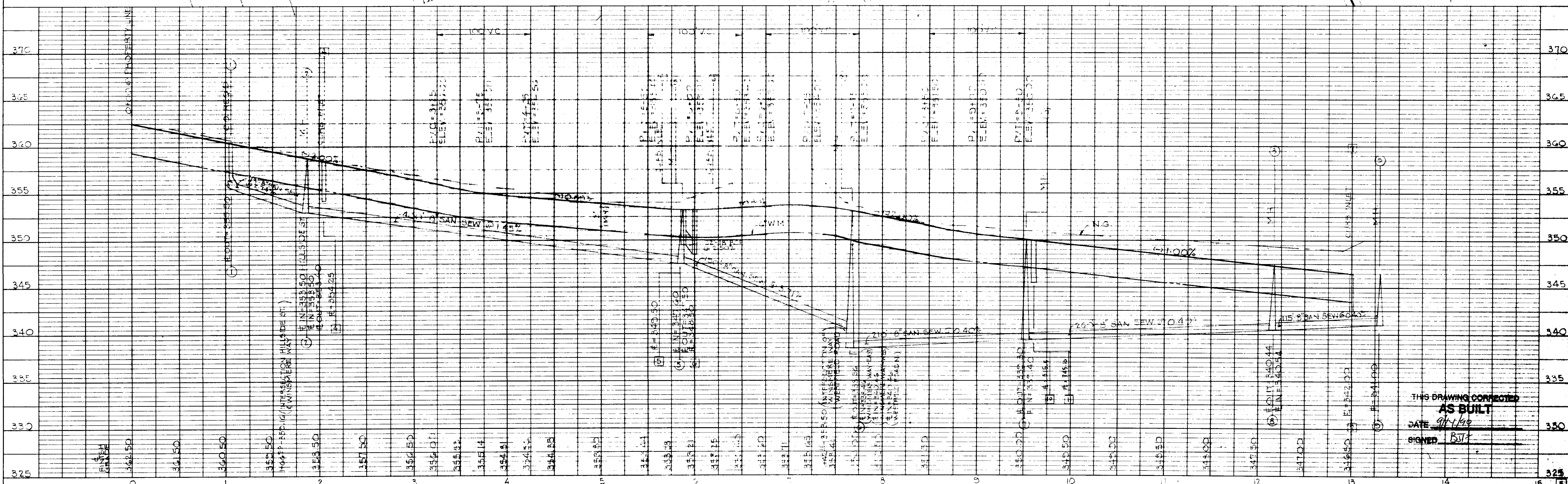
PROFILE
 SURVED
 NOTED
 NOTE BOOK
 GRADES CHECKED
 STRUCTURE NOTATIONS CHECKED
 No.



| CURVE "A" | | CURVE "B" | |
|-----------|-------------|-------------|-------------|
| Δ | 14° 25' 19" | 14° 25' 19" | 14° 25' 19" |
| R | 1310.64' | 1335.64' | 1360.64' |
| T | 165.81' | 168.99' | 172.15' |
| L | 329.90' | 336.19' | 342.49' |
| CH | 329.03' | 335.31' | 341.58' |
| B | 4° 22' 18" | 4° 17' 23" | 4° 12' 39" |

| CURVE "C" | | CURVE "D" | |
|-----------|-------------|-------------|-------------|
| Δ | 103° 30' | 103° 30' | 103° 30' |
| R | 225.00' | 200.00' | 175.00' |
| T | 205.41' | 253.70' | 221.99' |
| L | 405.44' | 361.28' | 316.12' |
| CH | 353.39' | 314.13' | 274.86' |
| B | 25° 27' 53" | 28° 38' 52" | 32° 44' 26" |

PLAN - PROFILE - WINMERE WAY

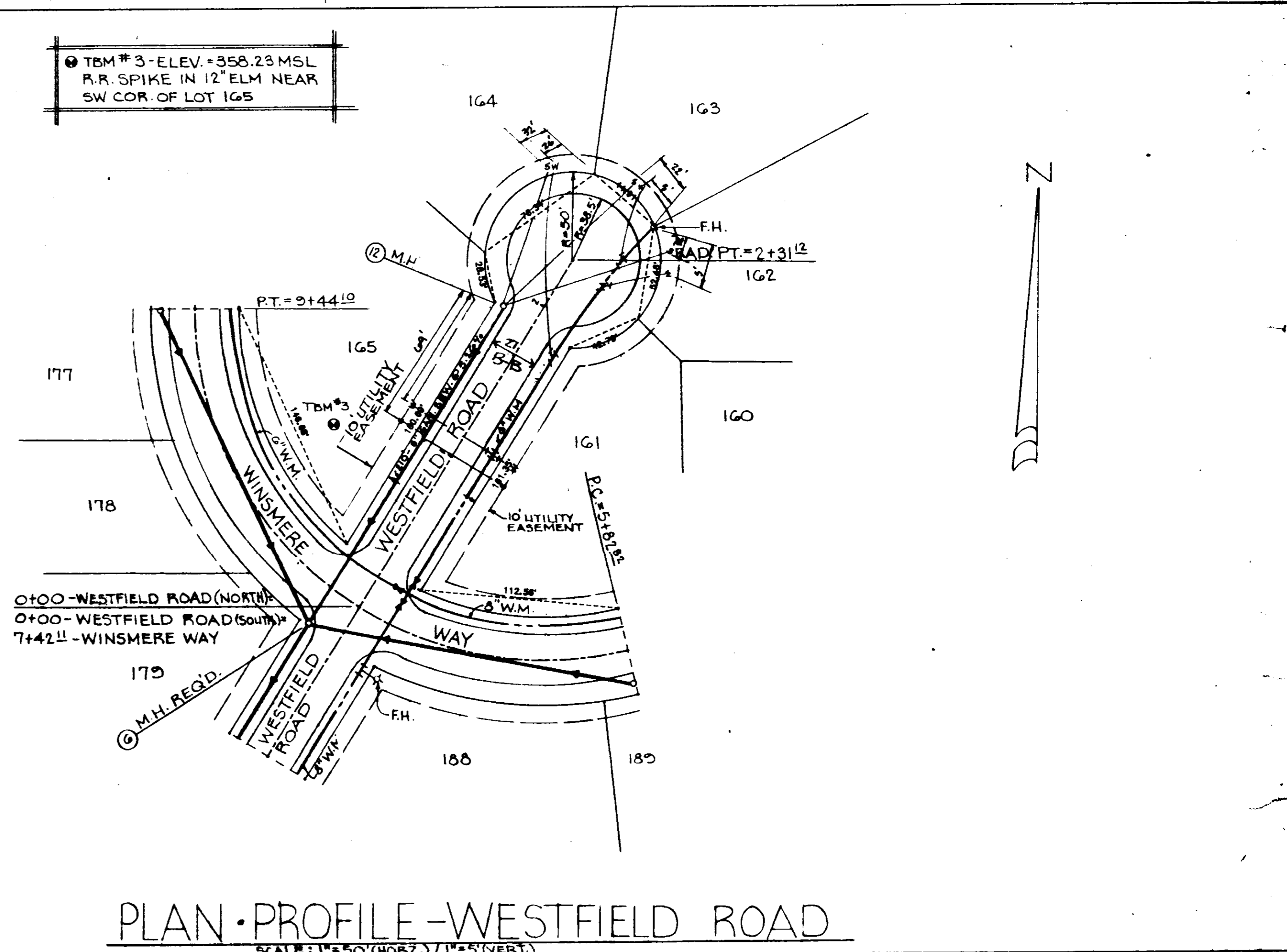
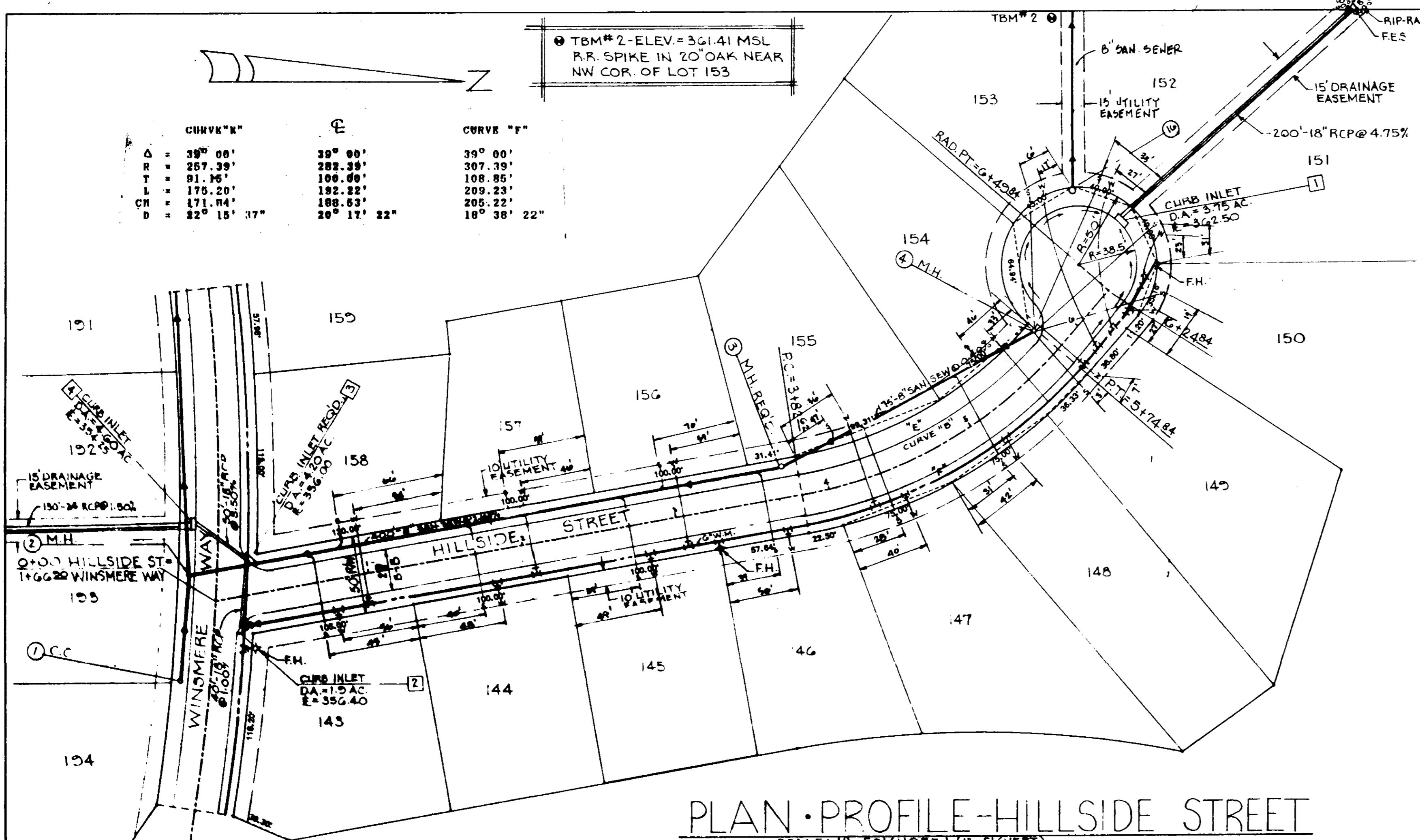


THIS DRAWING CORRECTED
AS BUILT
 DATE 9/1/98
 SIGNED BJT

| CURVE "K" | E | CURVE "F" |
|-----------------|-------------|-------------|
| Δ = 39° 00' | 39° 00' | 39° 00' |
| R = 267.39' | 267.39' | 307.39' |
| T = 81.16' | 100.00' | 108.85' |
| L = 176.20' | 182.22' | 209.23' |
| CH = 171.04' | 188.63' | 208.22' |
| D = 82° 15' 17" | 26° 17' 22" | 18° 38' 22" |

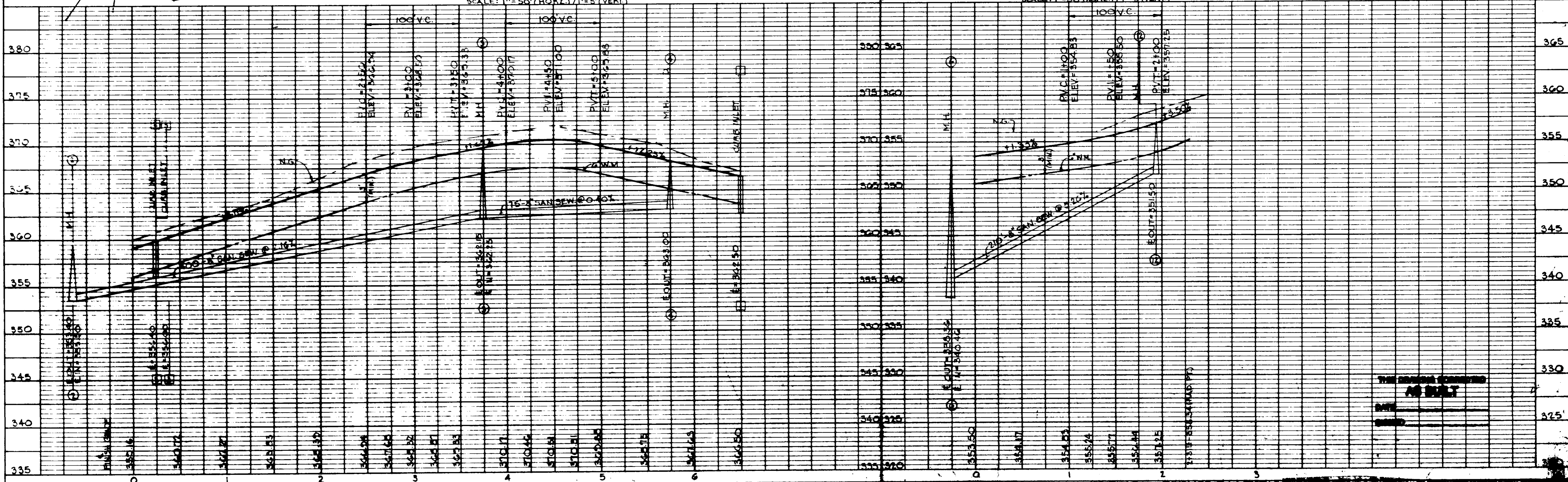
TBM #2 - ELEV. = 361.41 MSL
R.R. SPIKE IN 20' OAK NEAR
NW COR. OF LOT 153

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



PLAN - PROFILE - HILLSIDE STREET
SCALE: 1" = 50' (HORIZ.) / 1" = 5' (VERT.)

PLAN - PROFILE - WESTFIELD ROAD
SCALE: 1" = 50' (HORIZ.) / 1" = 5' (VERT.)



PLAN
NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. SEE SPECIFICATIONS FOR DETAILS.
3. REFER TO SHEET NO. 100 FOR ADJACENT AREAS.

PROFILE
NOTES:
1. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
2. SEE SPECIFICATIONS FOR DETAILS.
3. REFER TO SHEET NO. 100 FOR ADJACENT AREAS.

WESTFIELD OF DINSMOR - PLAN - PROFILE
HILLSIDE STREET, WESTFIELD ROAD
JANUARY 12, 1950.
REV. APRIL 9, 1950

THE DESIGN SHOWN
AS BUILT

