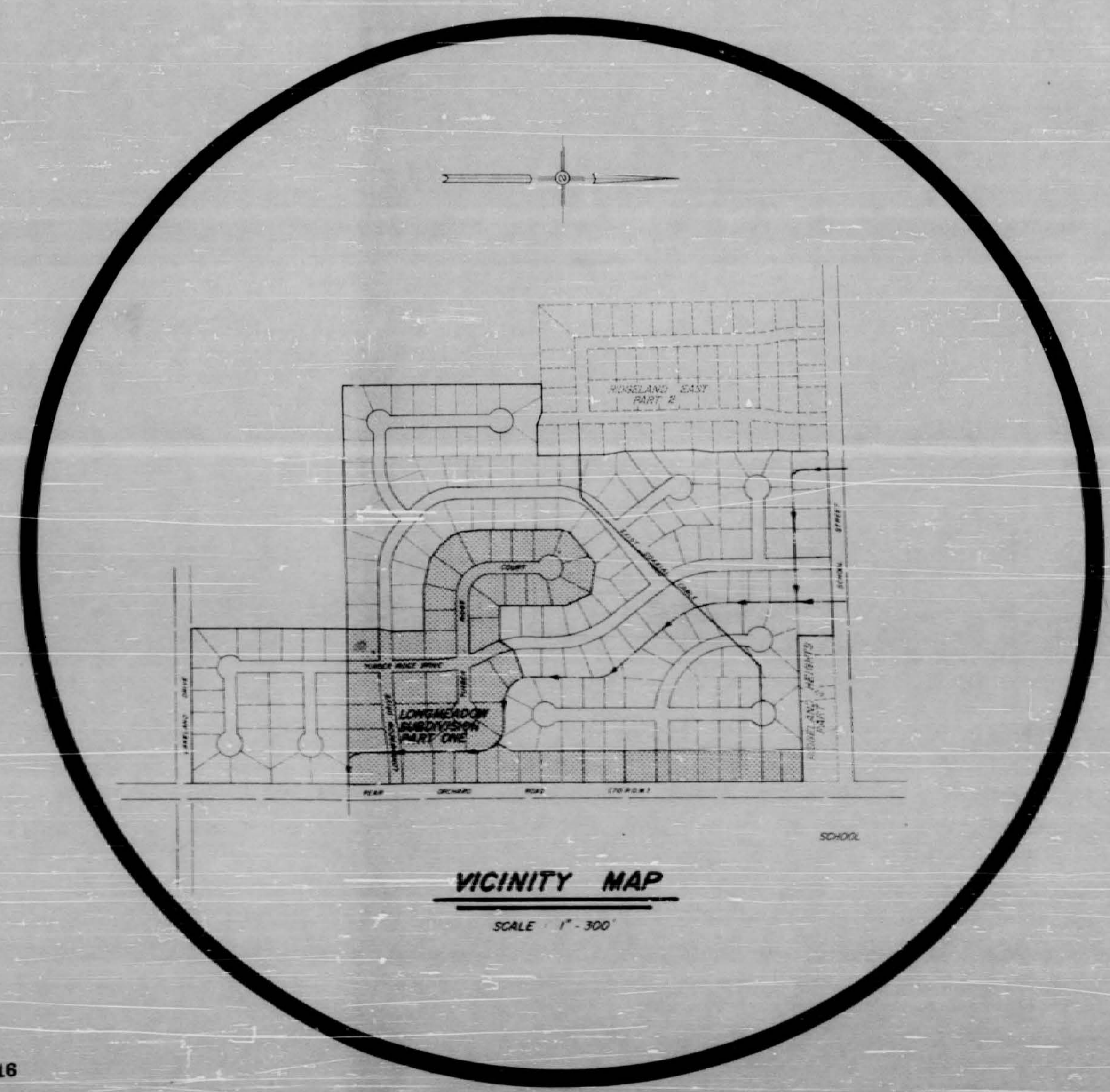


# LONGMEADOW SUBDIVISION PART ONE

**BAILEY & BAILEY, INC.  
OWNER & DEVELOPER**



CONTENTS

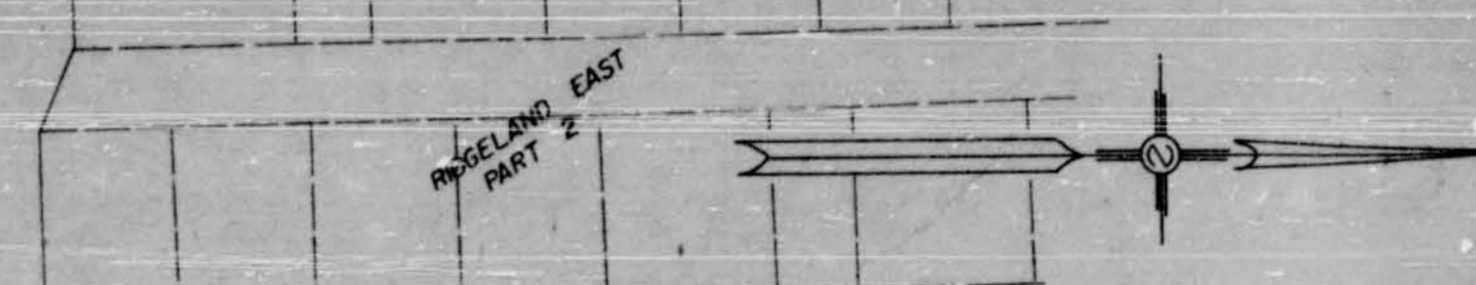
SHEET	DESCRIPTION
1	FRONT SHEET
2	LOT LAYOUT & DRAINAGE
3	WATER & SEWER LAYOUT
4-14	PLAN & PROFILE SHEETS
15	PUMP STATION PLAN & DETAIL SHEET
16	CONSTRUCTION DETAILS FOR WATER DISTRIBUTION SYSTEM
17	CONSTRUCTION DETAILS FOR SEWER APPURTENANCES
18	STANDARD STORM SEWER APPURTENANCES

APPROVED 6/30/76  
*David A. Mitchell*  
BOARD OF ENVIRONMENTAL HEALTH  
MISSISSIPPI STATE BOARD OF HEALTH

**LESTER ENGINEERING CO.  
JACKSON, MISS.**

H 016

2879 SHT NO 1 OF 18  
JOB NO 75-252



**ε CURVE DATA**

① Δ=8°45' LT. D=3.81759° T=15.00' L=225.54' R=1503.15' PC=0+57.68 PT=1+56.68 PRC=2+67.23	② Δ=8°45' RT D=3.81759° T=15.00' L=225.54' R=1503.15' PC=2+67.23 PT=3+82.23 PRC=4+96.76	③ Δ=26°45' LT D=13.623364° T=100.00' L=196.35' R=420.57' PC=2+10.00 PT=3+10.00 PRC=4+06.35	④ Δ=26°45' RT D=13.623364° T=100.00' L=196.35' R=420.57' PC=3+10.00 PT=4+06.35 PRC=6+02.70
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**DITCH CURVE DATA (ε)**

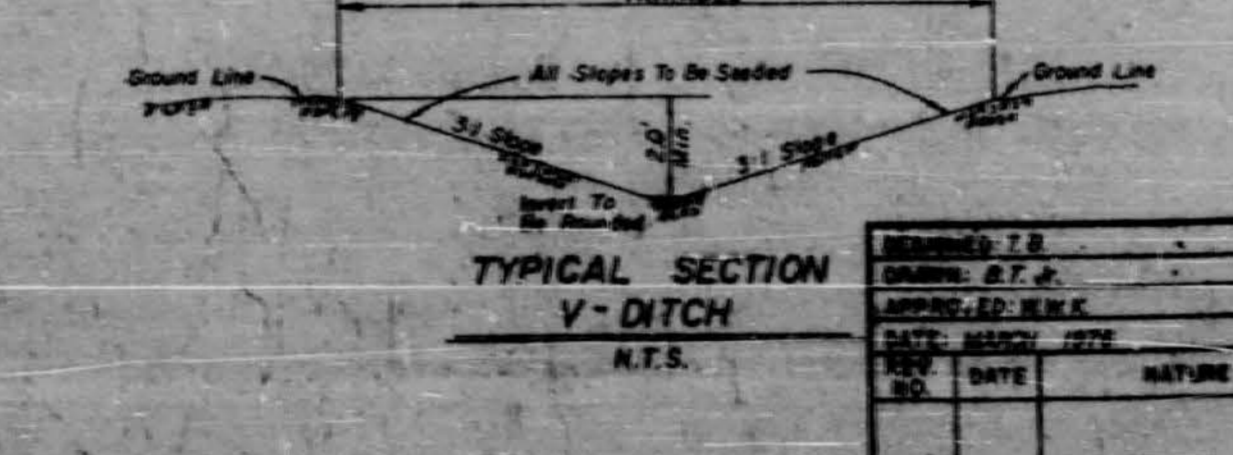
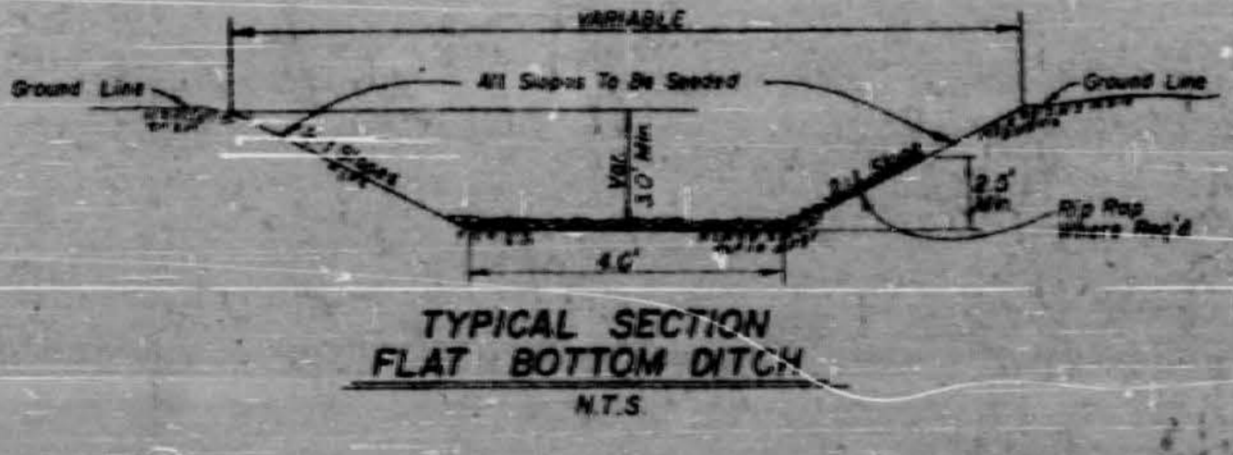
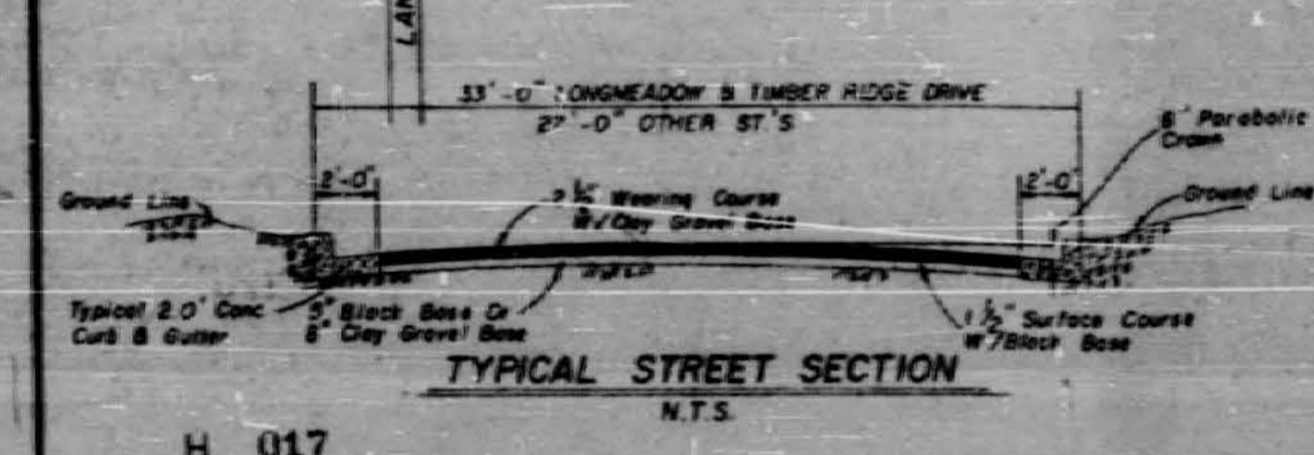
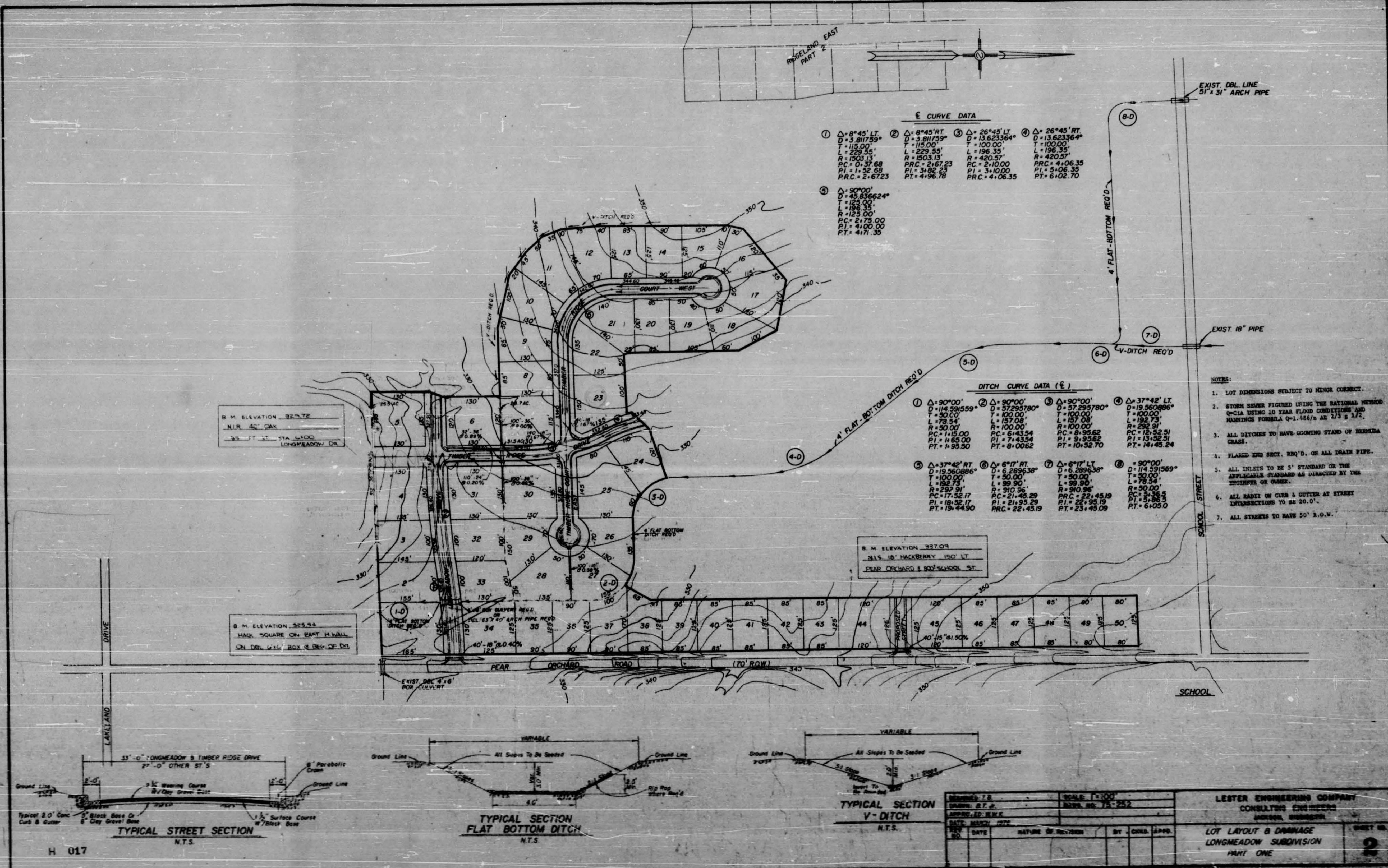
① Δ=90°00' D=114.59659° T=70.00' L=78.54' R=90.00' PC=1+15.00 PT=1+45.00 PRC=1+95.50	② Δ=90°00' D=57.293780° T=100.00' L=87.08' R=100.00' PC=6+43.34 PT=7+43.34 PRC=8+45.19	③ Δ=90°00' D=57.293780° T=100.00' L=87.08' R=100.00' PC=8+35.62 PT=9+35.62 PRC=10+52.70	④ Δ=37°45' LT D=19.56086° T=100.00' L=192.73' R=236.91' PC=13+52.51 PT=14+52.51 PRC=14+43.24
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- NOTES:**
1. LOT DIMENSIONS SUBJECT TO MINOR CORRECT.
  2. STORM SEWER PLOTTED USING THE NATIONAL METHOD Q-CIA USING 10 YEAR FLOOD CONDITIONS AND MANNING FORMULA (C=148) AS 1/2 S L/T.
  3. ALL DITCHES TO HAVE GRASSING STAND OF BERBERIS GRASS.
  4. PLACED 200' SECT. 800'S. ON ALL DRAIN PIPE.
  5. ALL INLETS TO BE 5' STANDARD OR THE APPLICABLE STANDARD AS DICTATED BY THE INSPECTOR OR OWNER.
  6. ALL RABBIT OR CURB & GUTTER AT STREET INTERSECTIONS TO BE 20.0'.
  7. ALL STREETS TO HAVE 50' R.O.W.

B.M. ELEVATION 325.72  
N.I.R. 42' OAK  
35' ST. ST. STA. 1100  
LONGMEADOW DR.

B.M. ELEVATION 323.01  
315' IN. HACKBERRY 150' LT.  
PEAR ORCHARD & 800' SCHOON ST.

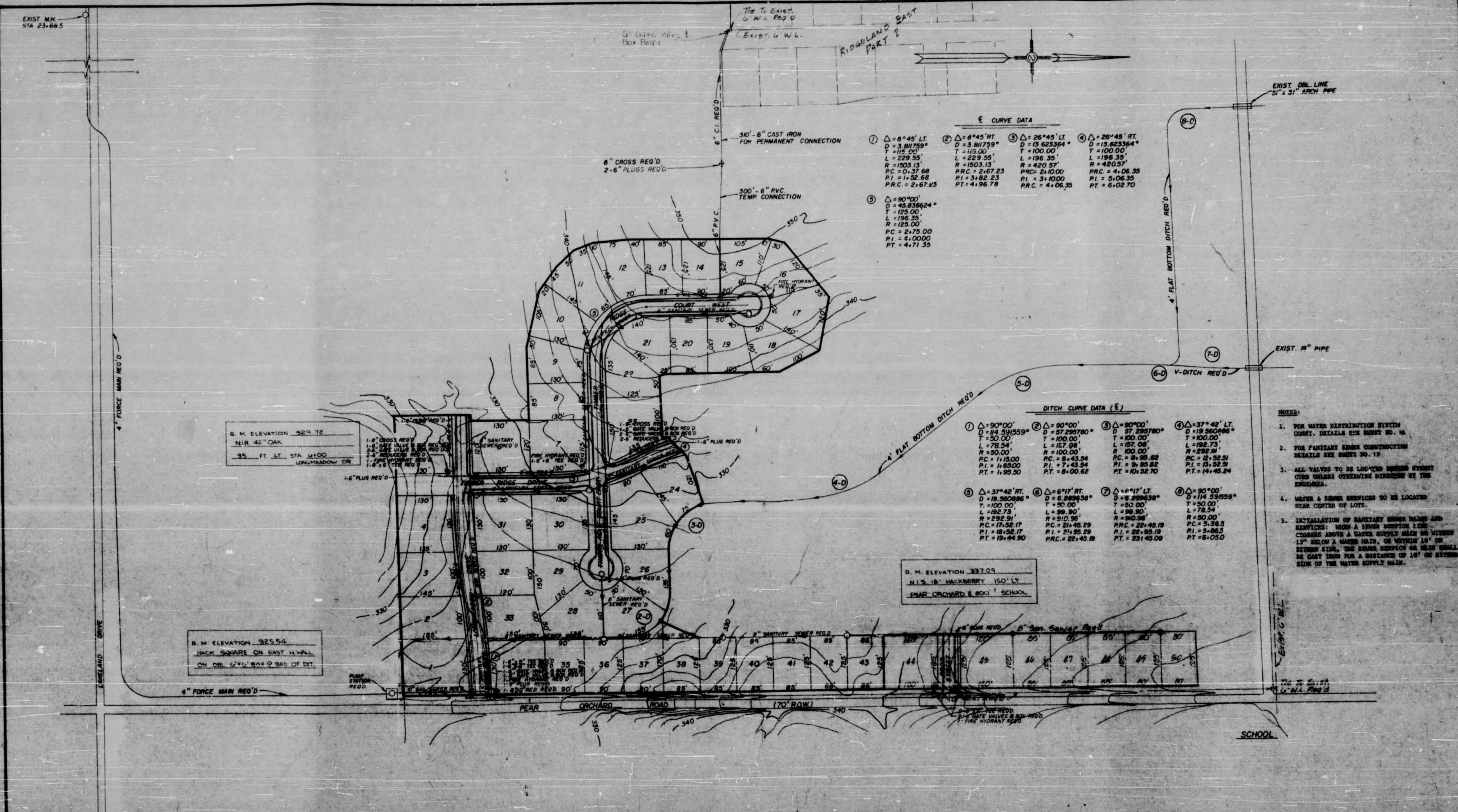
B.M. ELEVATION 325.24  
MARK SQUARE ON EAST H.WALL  
ON DEL. W. 1/4' BOX 4. DEL. OF DEL.



DESIGNED BY LESTER ENGINEERING COMPANY	SCALE 1"=100'	DATE MAY 1954	BY J. C. HARRIS	SHEET NO. 1
CHECKED BY LESTER ENGINEERING COMPANY	DATE MAY 1954	NATURE OF REVISION	DATE	
PROJECT LOT LAYOUT & DRAINAGE LONGMEADOW SUBDIVISION PART ONE				

H 017

SHEET NO. 1 OF 12  
MAY 1954



**Curve Data**

① $\Delta = 8^{\circ}45'11''$ D = 3.81729' T = 115.00' L = 229.55' R = 1503.13' PC = 11.32.68 PT = 11.52.68 PCC = 247.23	② $\Delta = 4^{\circ}45'11''$ D = 3.81729' T = 115.00' L = 229.55' R = 1503.13' PC = 11.32.68 PT = 11.52.68 PCC = 247.23	③ $\Delta = 26^{\circ}45'11''$ D = 13.623364' T = 100.00' L = 196.35' R = 420.57' PC = 31.02.23 PT = 31.02.23 PCC = 41.06.35	④ $\Delta = 26^{\circ}45'11''$ D = 13.623364' T = 100.00' L = 196.35' R = 420.57' PC = 31.02.23 PT = 31.02.23 PCC = 41.06.35
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**Ditch Curve Data (E)**

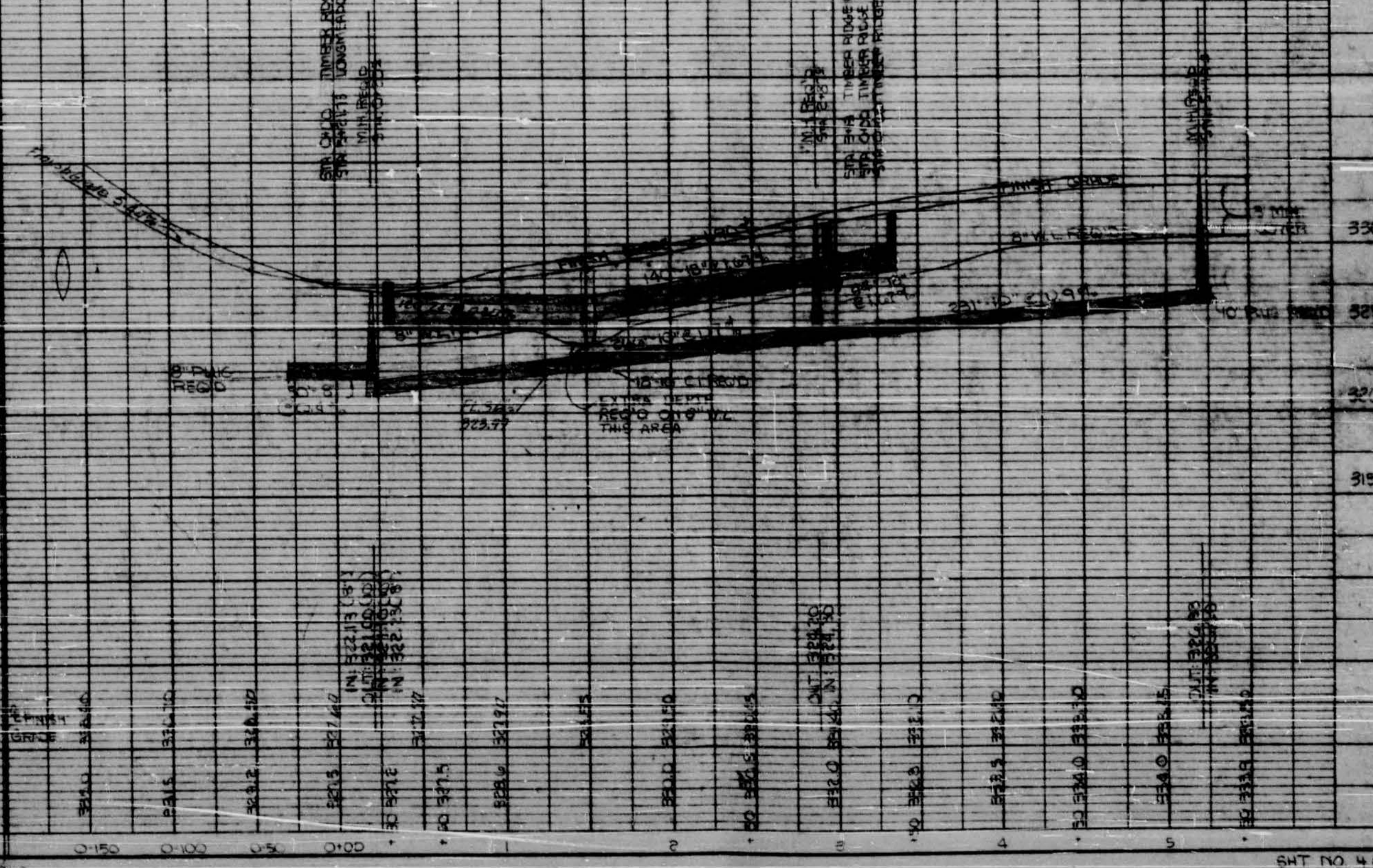
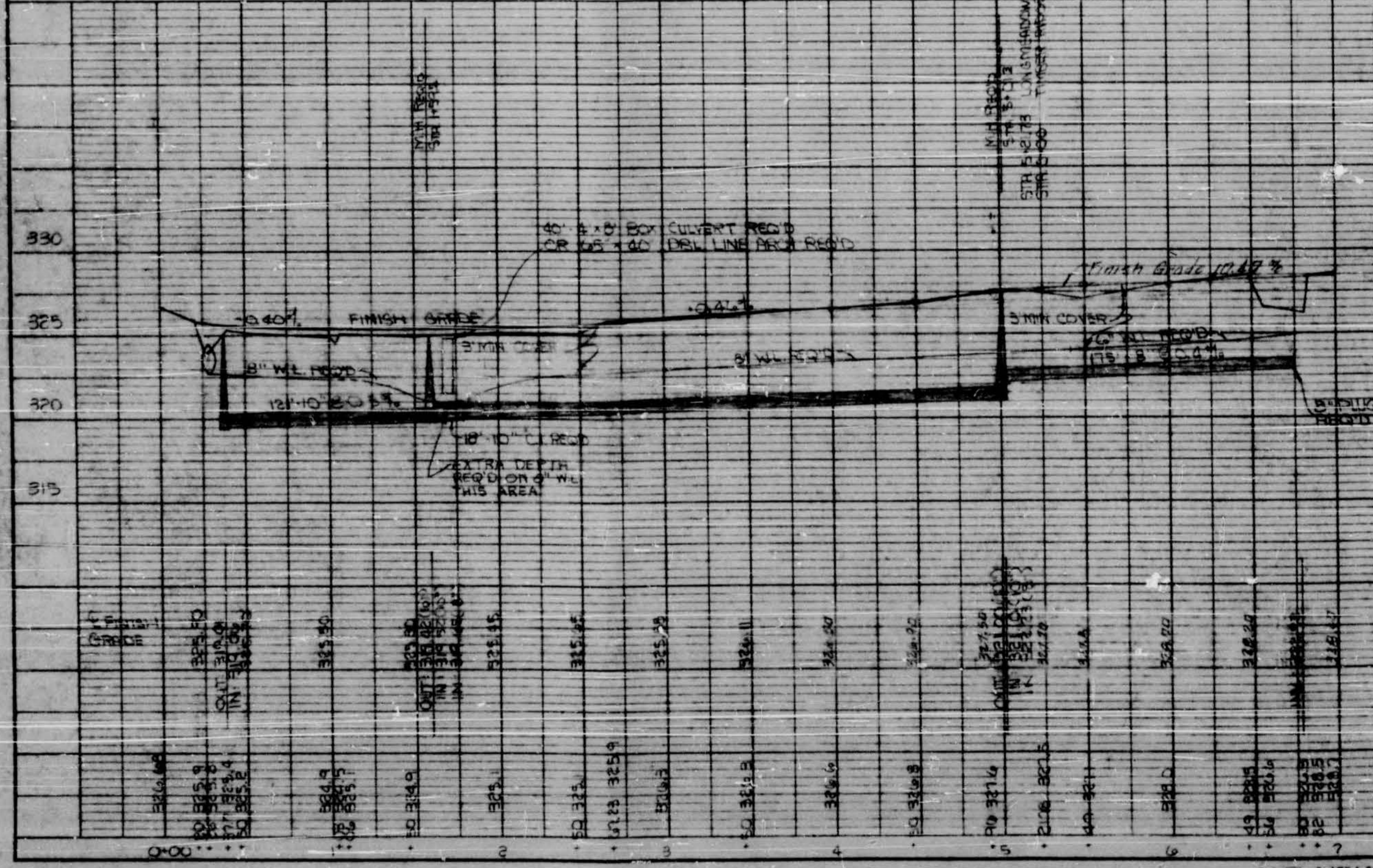
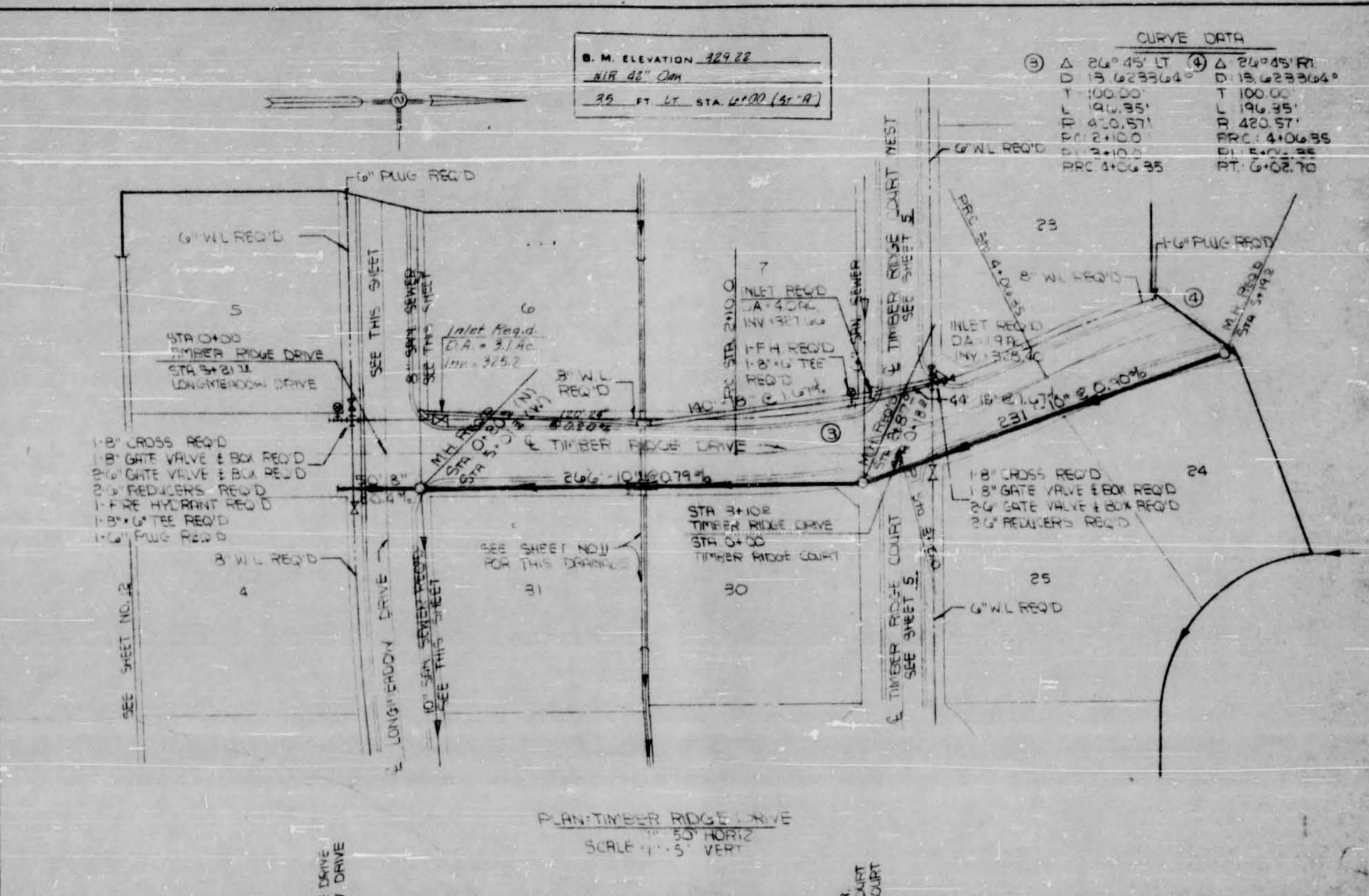
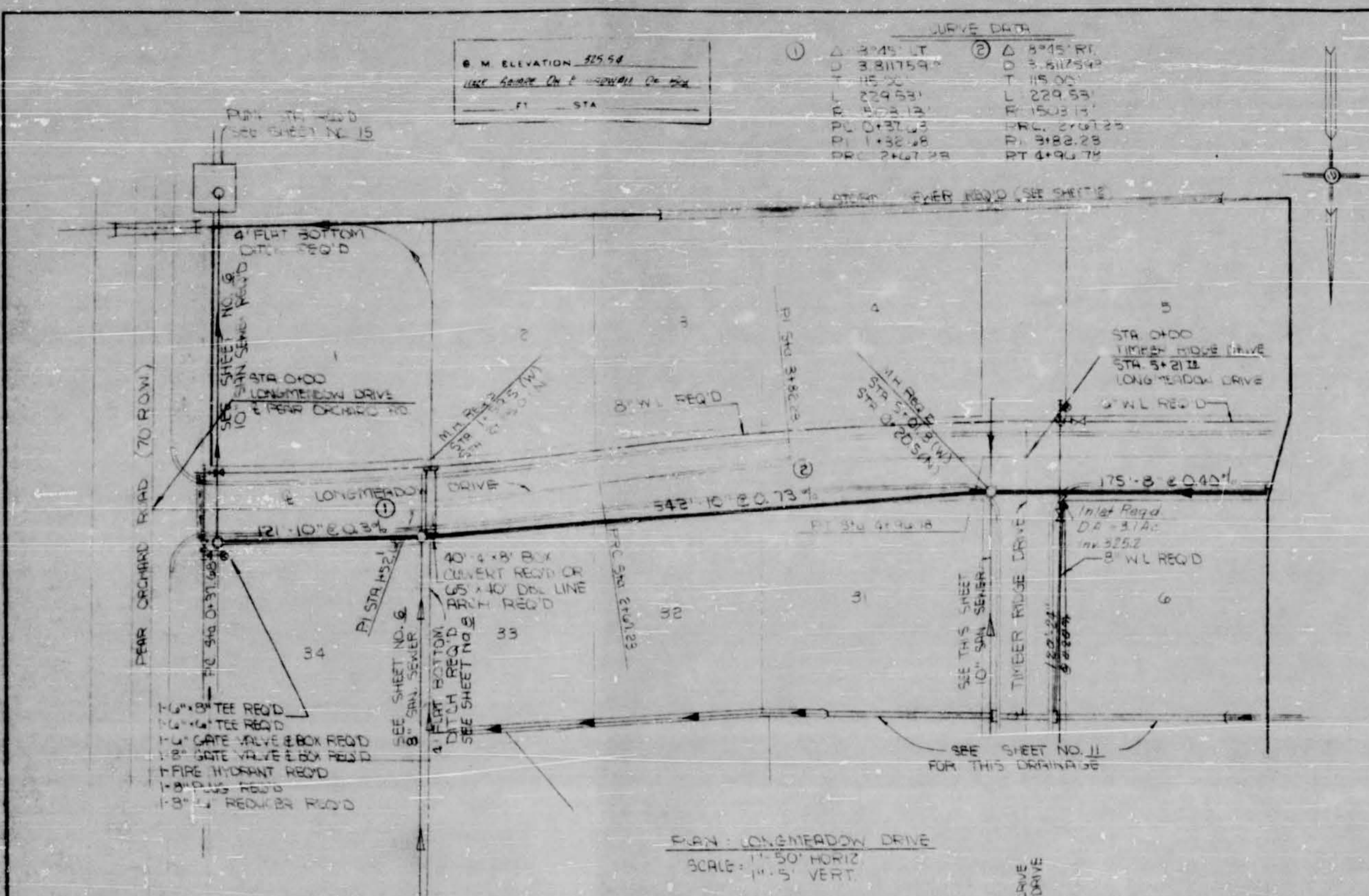
① $\Delta = 90^{\circ}00'$ D = 118.250559' T = 100.00' L = 78.54' R = 90.00' PC = 11.15.00 PT = 11.55.30	② $\Delta = 90^{\circ}00'$ D = 27.229780' T = 100.00' L = 107.04' R = 100.00' PC = 9.43.34 PT = 9.43.34	③ $\Delta = 90^{\circ}00'$ D = 27.229780' T = 100.00' L = 107.04' R = 100.00' PC = 9.43.34 PT = 9.43.34	④ $\Delta = 37^{\circ}42'11''$ D = 118.250559' T = 100.00' L = 78.54' R = 90.00' PC = 11.15.00 PT = 11.55.30
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- NOTES:**
- FOR WATER DISTRIBUTION SYSTEM CONST. DETAILS SEE SHEET 80-14
  - FOR SANITARY SEWER CONSTRUCTION DETAILS SEE SHEET 80-17
  - ALL VALVES TO BE LOCATED WHERE STREET CURB WALKS CROSSWISE BETWEEN THE ENDPIERS.
  - WATER & SEWER SERVICES TO BE LOCATED NEAR CENTER OF LOTS.
  - INSTALLATION OF SANITARY SEWER MAINS AND SERVICES: WHEN A SEWER SERVICE LINE CROSSES ABOVE A WATER SUPPLY MAIN OR UNDER 12" BELOW A WATER MAIN, OR WITHIN 12" OF EITHER SIDE, THE SEWER SERVICE OR MAIN SHALL BE CAST IRON FOR A DISTANCE OF 10' ON EITHER SIDE OF THE WATER SUPPLY MAIN.

H 018

DESIGNED BY CHECKED BY APPROVED BY	SCALE: 1"=100' TOTAL NO. SHEETS	LESTER ENGINEERING COMPANY CONSULTING ENGINEERS INCORPORATED
DATE WORK DONE BY	NATURE OF REVIEW BY	DATE APPROVED BY
WATER & SEWER LAYOUT LONGMEADOW SUBDIVISION PART ONE		SHEET NO. <b>3</b>

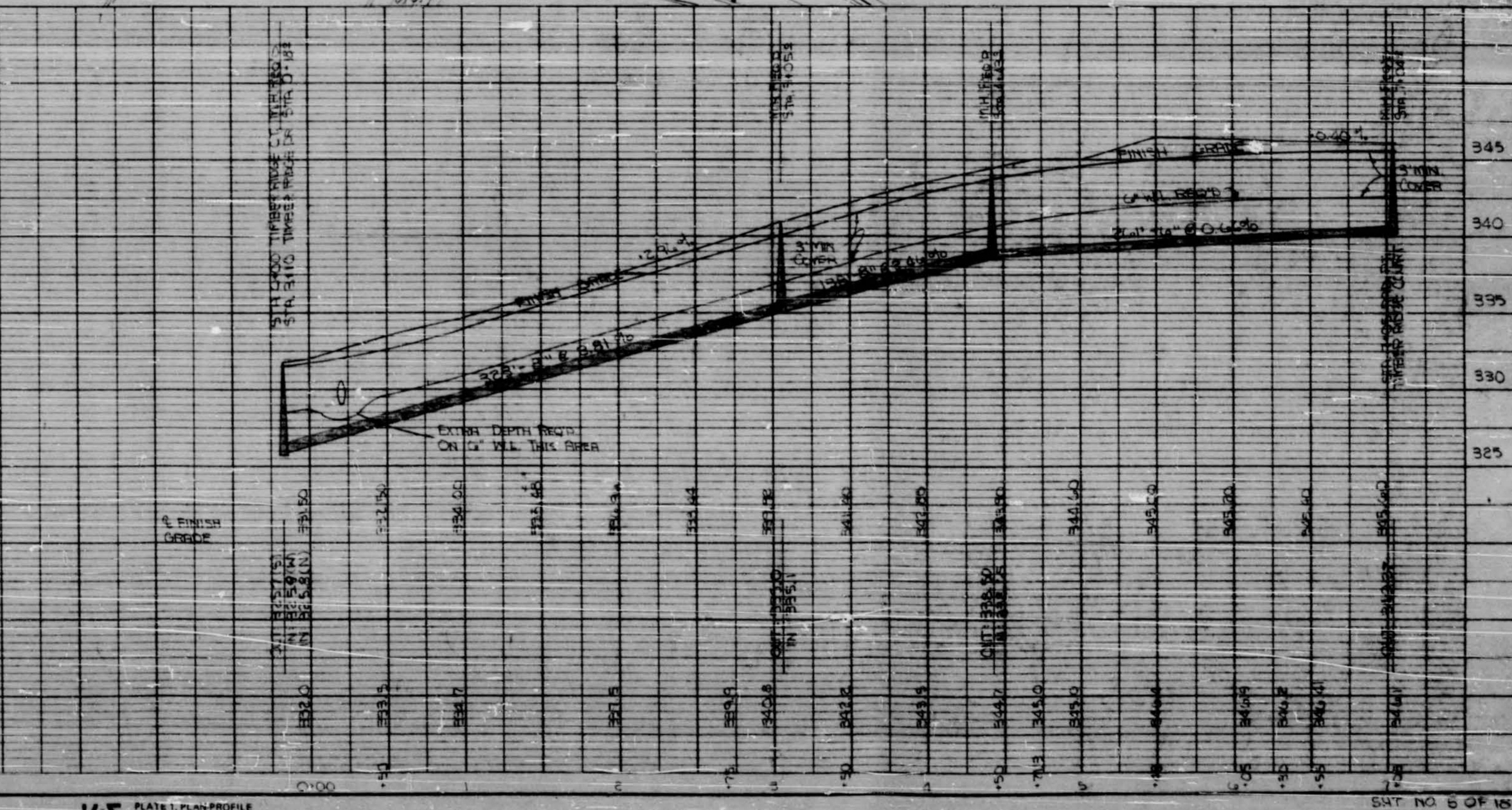
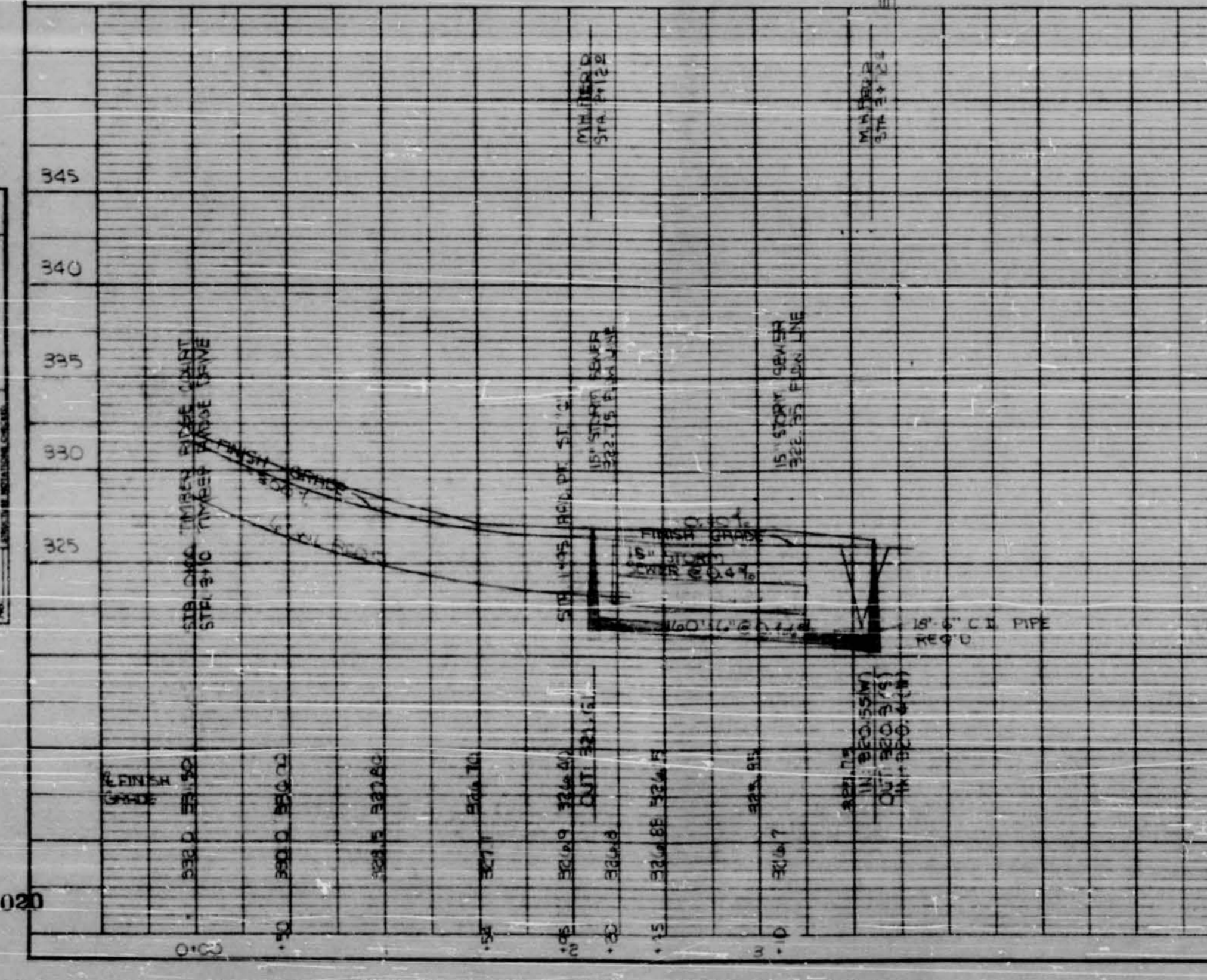
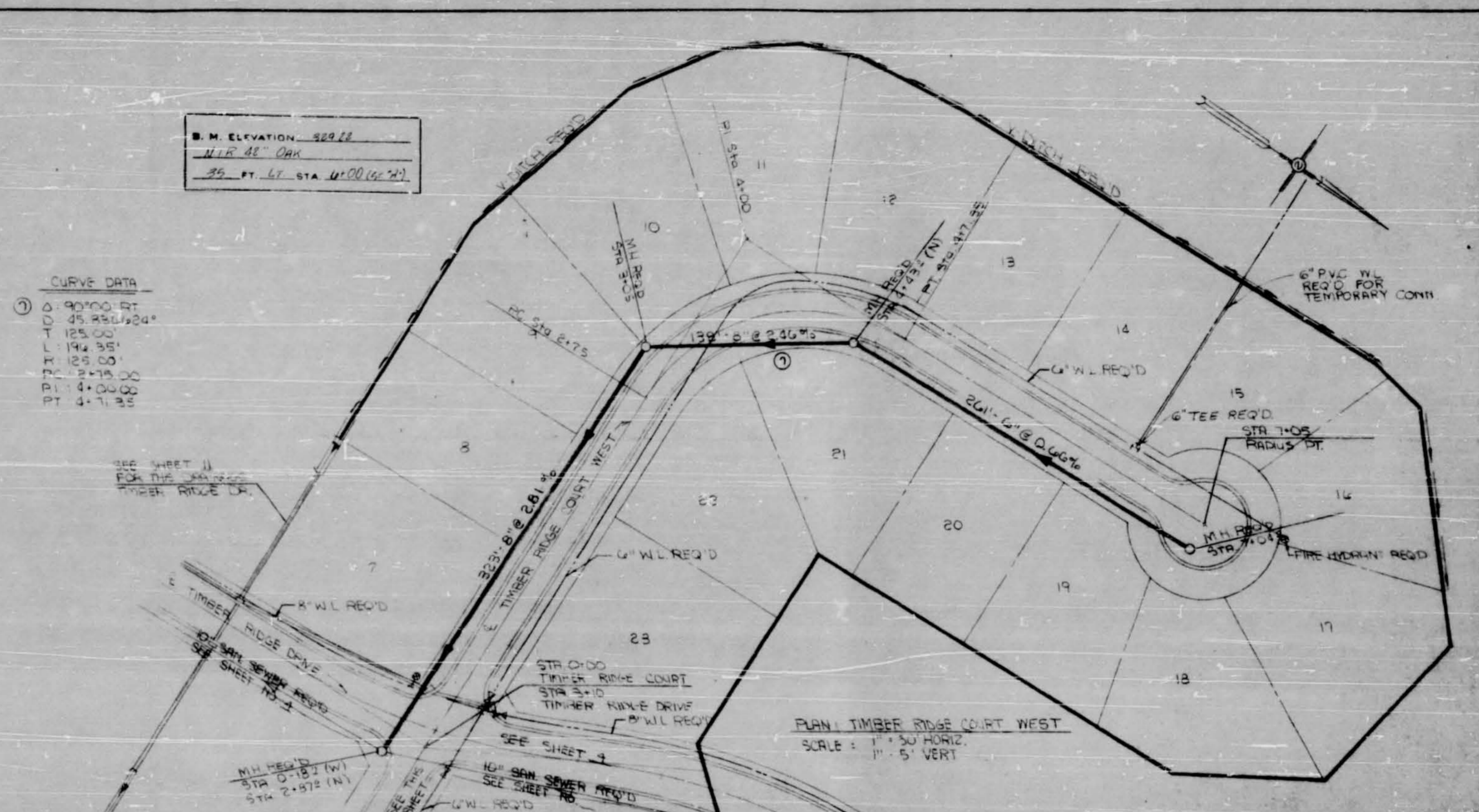
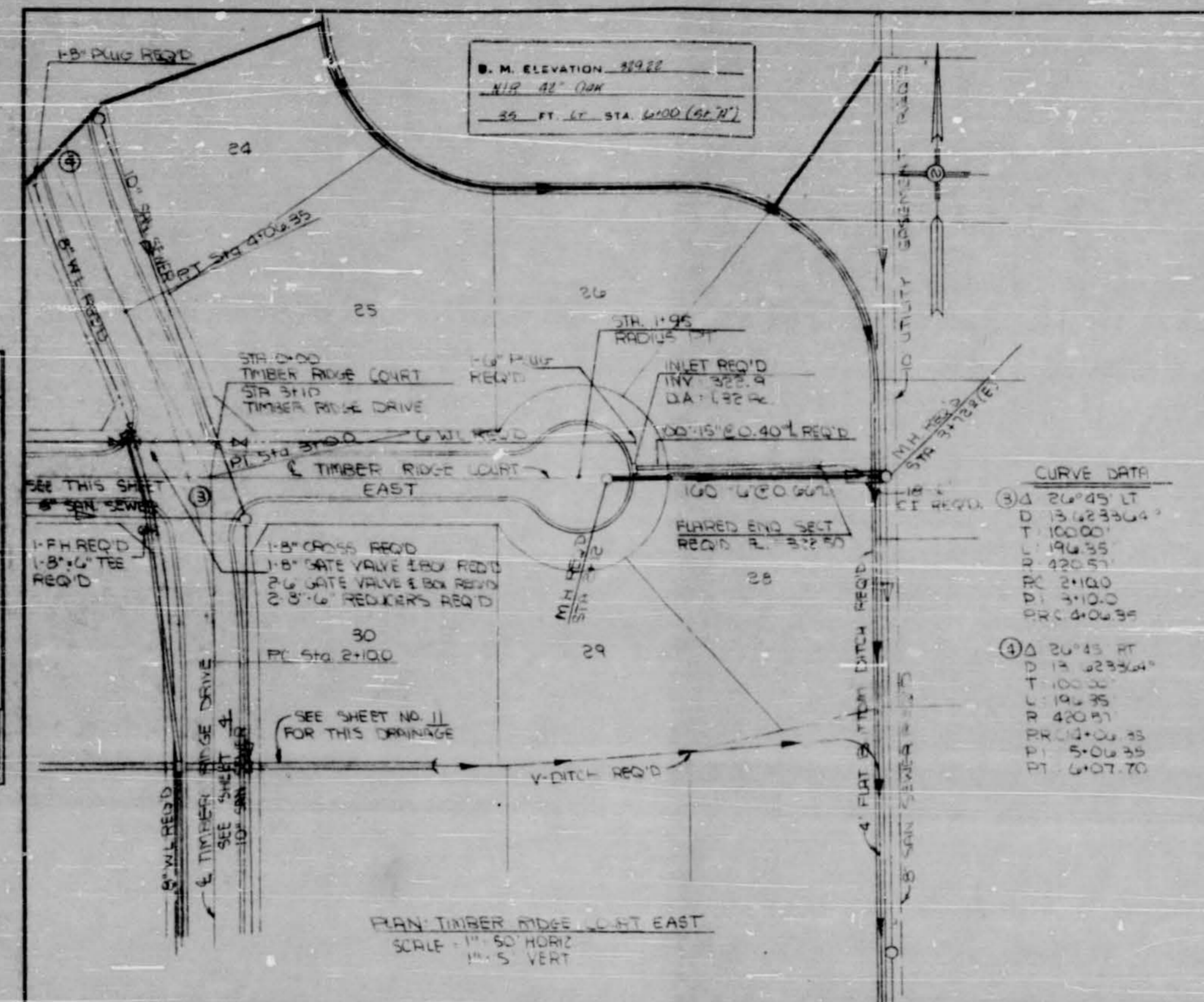
SEE SHEET 80-14  
JOB NO. 75-250



H 018

PLATE 1, PLAN PROFILE  
 SHEET 1 OF 2

SHT NO. 1 OF 2



K&E PLATE 1 PLAN PROFILE  
 HENRI & WESLEY  
 704 W. 11th St. S.

SHT NO 6 OF 16  
 25-67 ON P.C.  
 7-55

PLAN	NO. 1
DATE	
BY	
CHECKED	
APPROVED	

PROFILE	NO. 1
DATE	
BY	
CHECKED	
APPROVED	

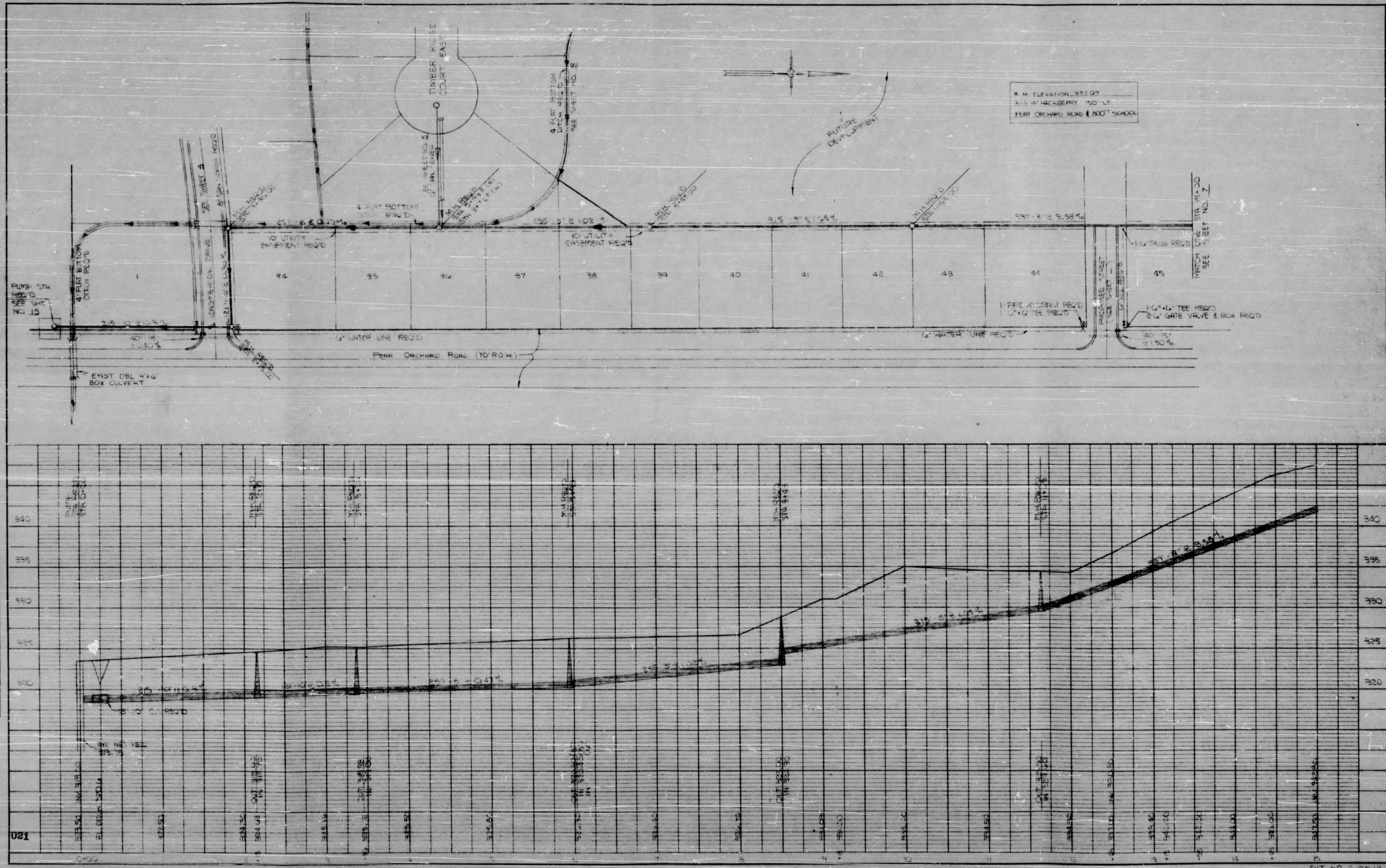
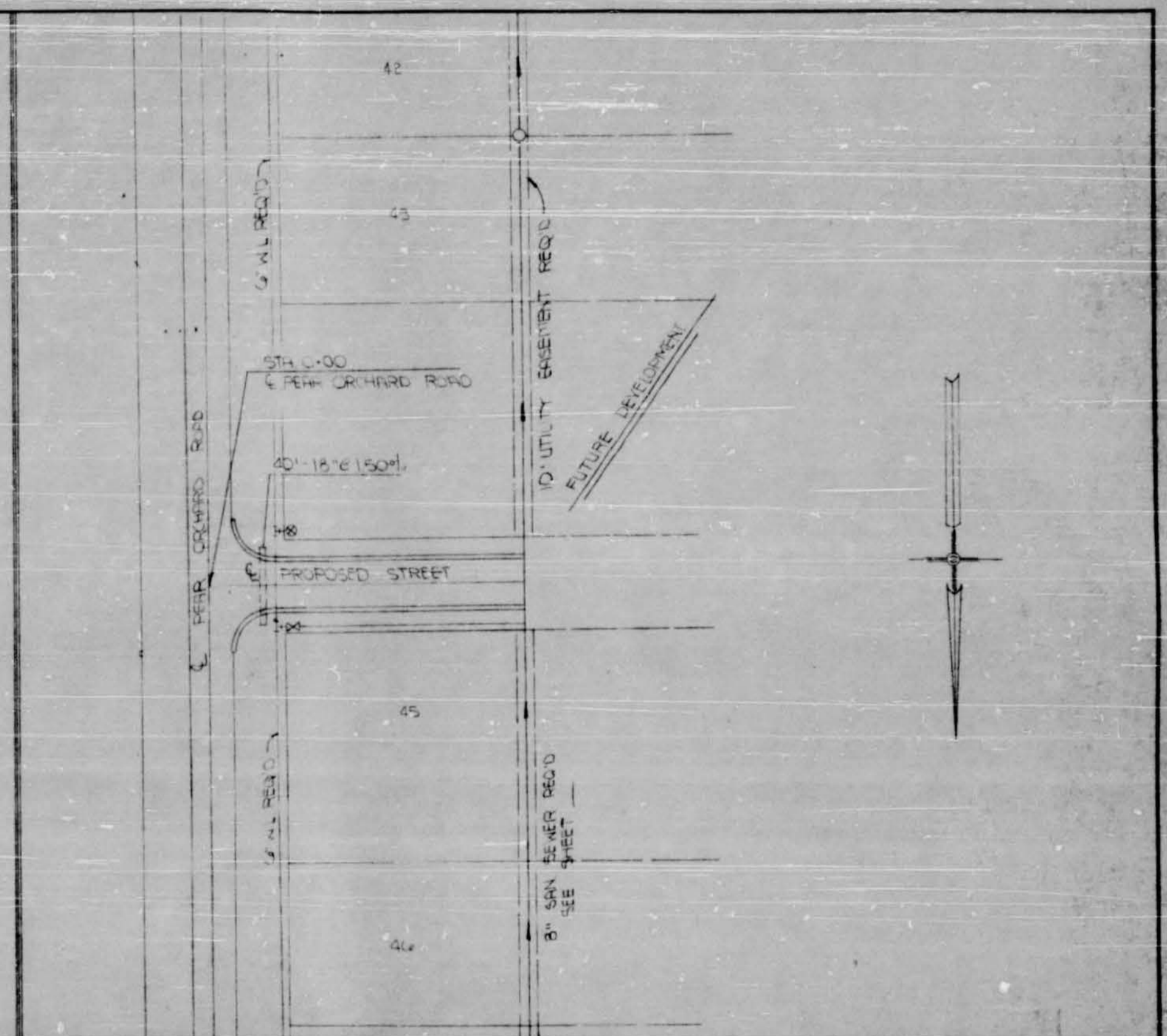
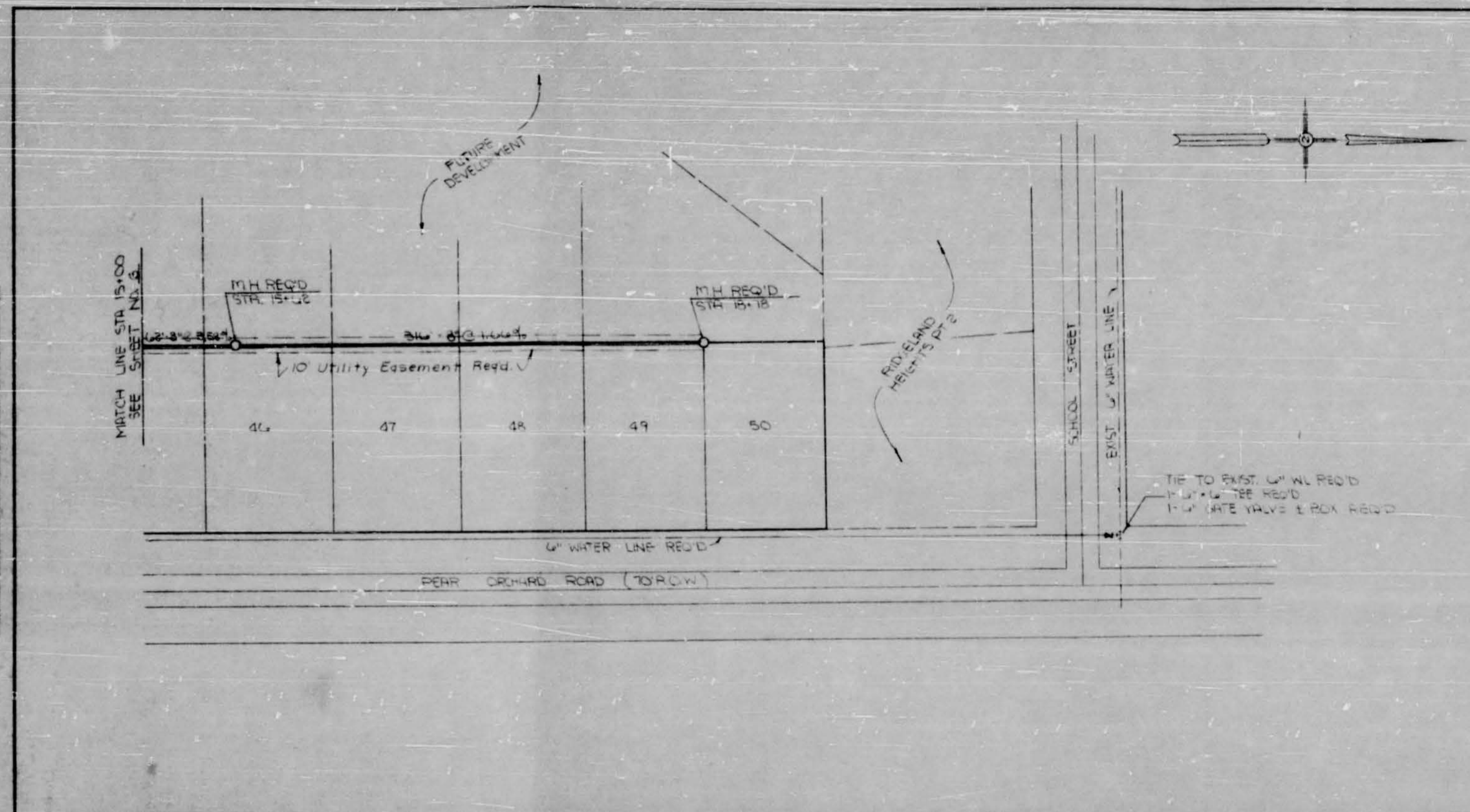


PLATE 1 PLAN PROFILE  
 48 7004 MADE IN U.S.A.

DATE NO. 1 OF 14  
 JOB NO. 14-202

DATE	
SCALE	
PROJECT	
CLIENT	
DESIGNER	
CHECKER	
APPROVER	
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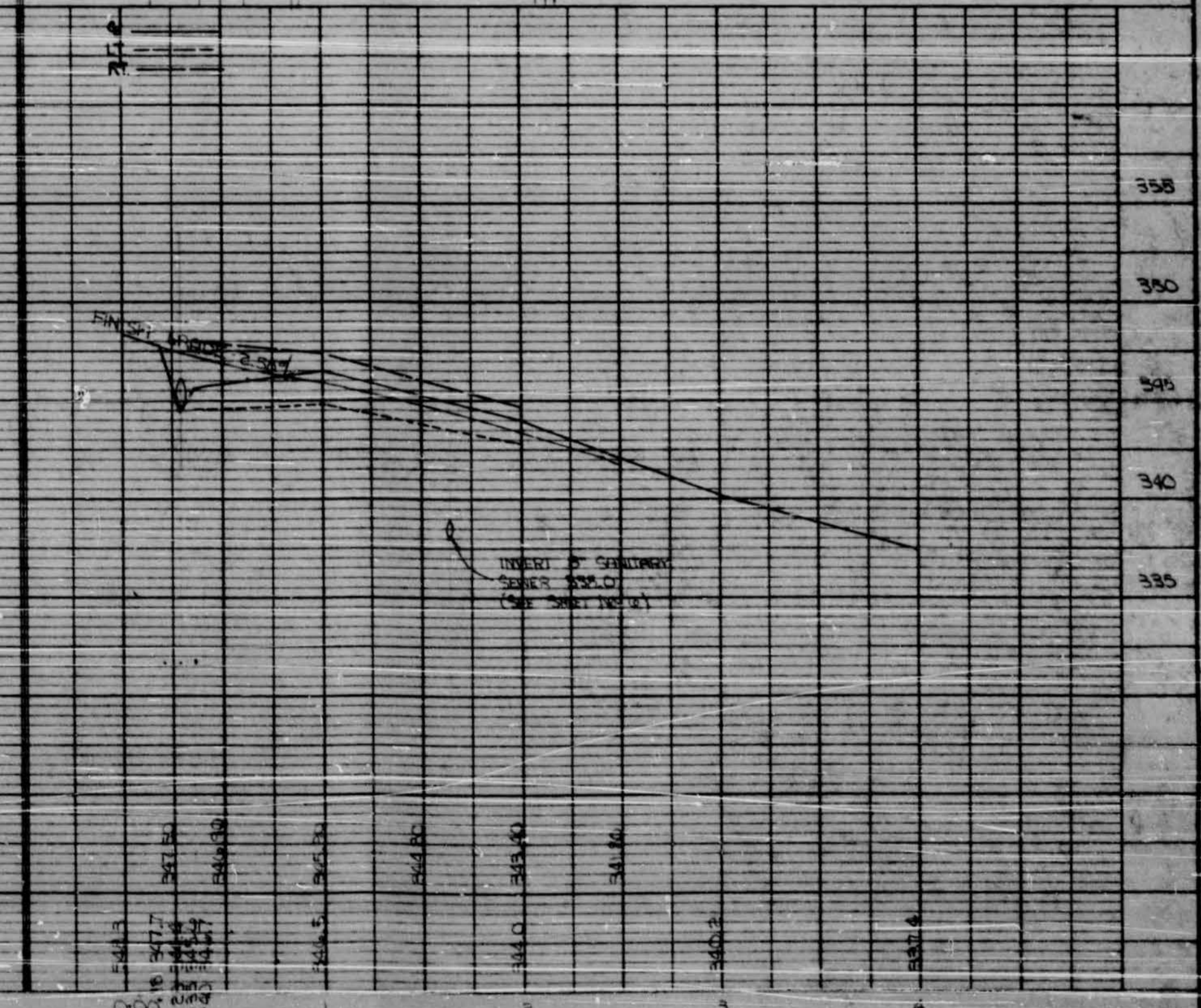
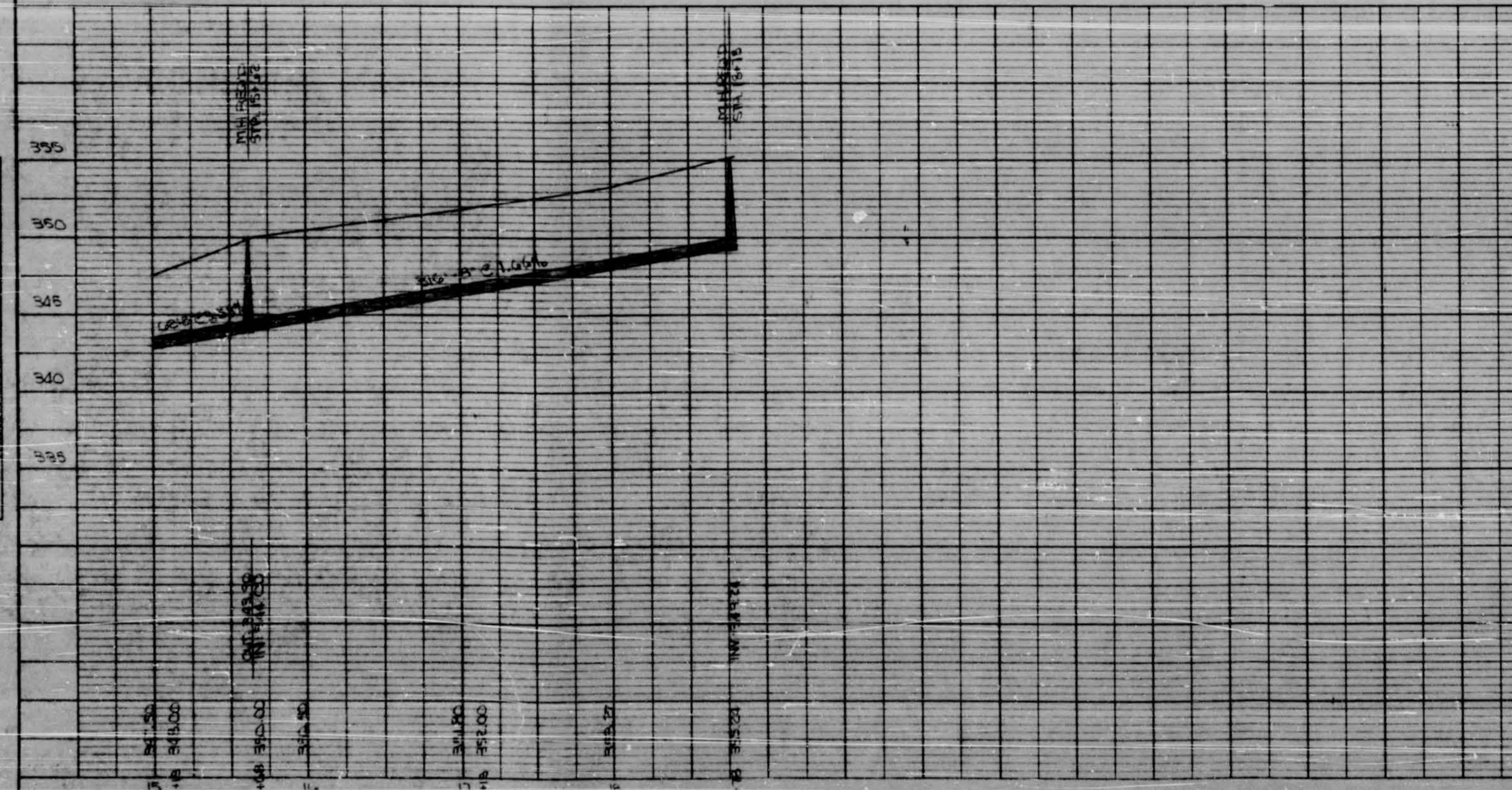
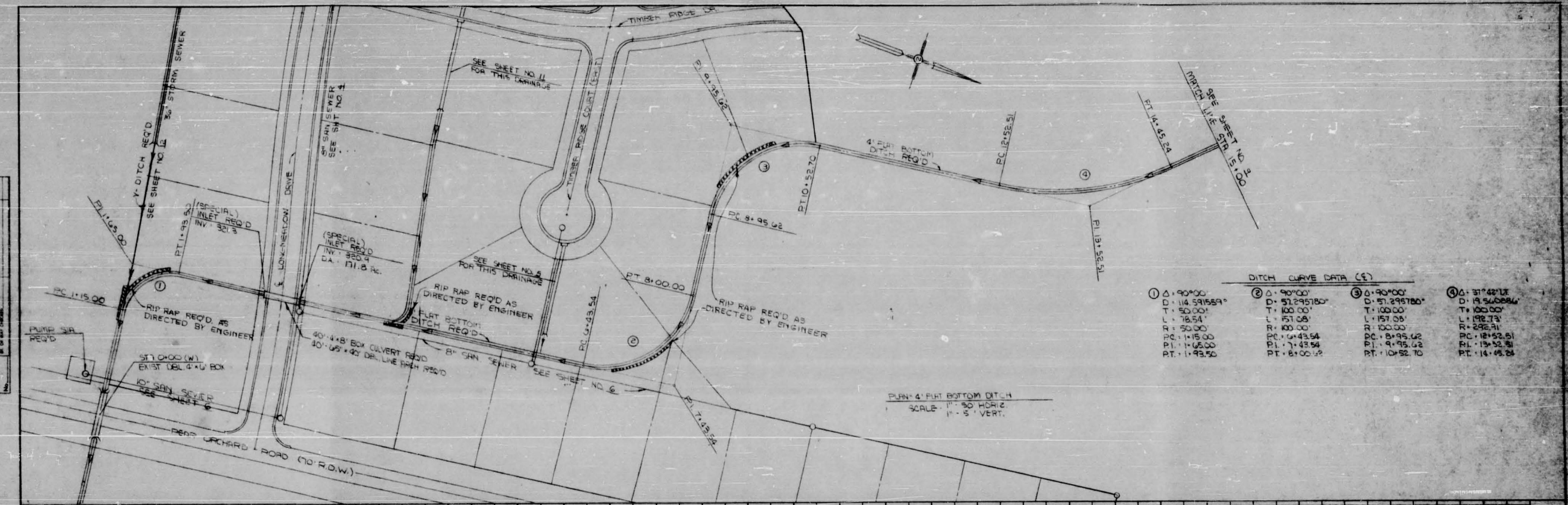


PLATE 1, PLAN PROFILE  
 K&E ENGINEERING CO.  
 7004 W. 10th St.

SHT. NO. 7 OF 18  
 JOB NO. 75-282

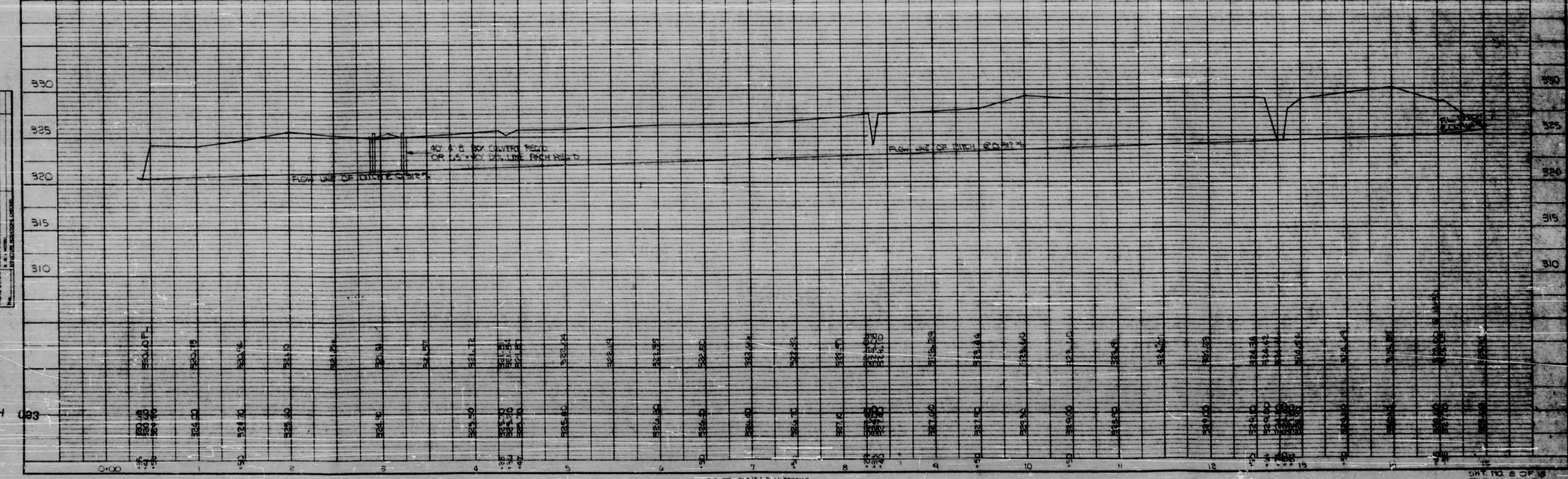
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APPROVED	
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REVISIONS	

DATE	
BY	
CHECKED	
APPROVED	
NOTED	
REVISIONS	



DITCH CURVE DATA (ft)

① Δ: 90°00' D: 114.591589' T: 80.00' L: 78.54' R: 50.00' PC: 1+15.00 PT: 1+93.50	② Δ: 90°00' D: 81.245780' T: 80.00' L: 51.08' R: 80.00' PC: 6+43.54 PT: 7+23.54	③ Δ: 90°00' D: 51.298780' T: 100.00' L: 151.08' R: 100.00' PC: 8+95.42 PT: 9+95.42	④ Δ: 37°42'12" D: 18.540884' T: 100.00' L: 198.73' R: 158.21' PC: 13+52.51 PT: 14+49.24
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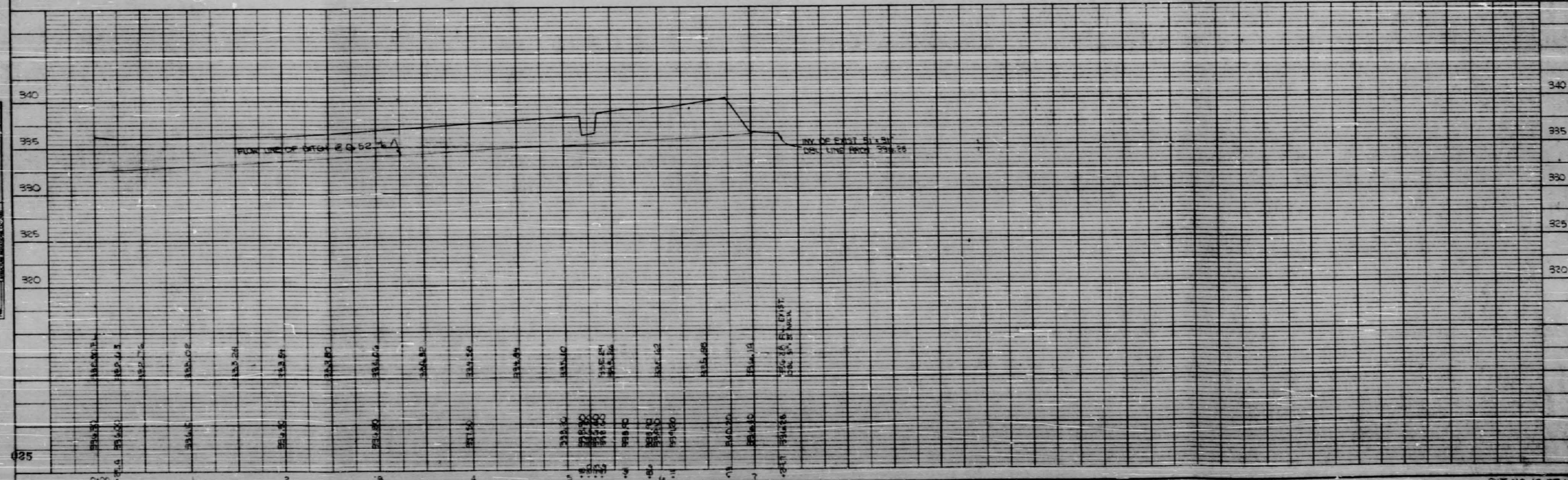
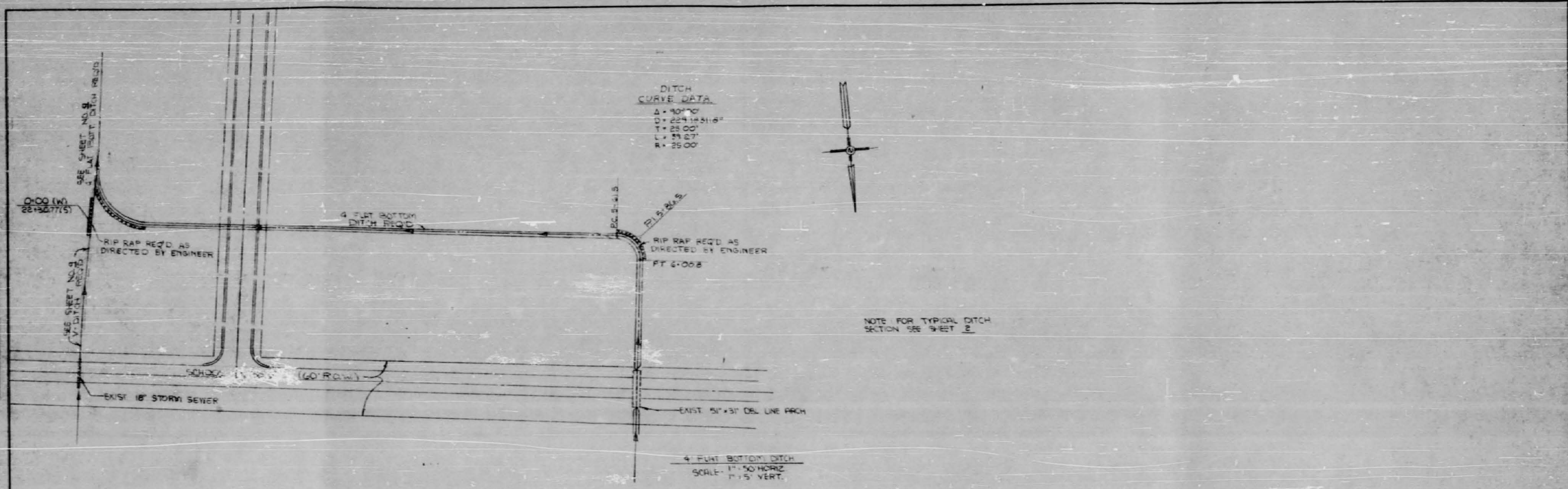


K&E PLATE - PLAN PROFILE  
 22 1/2" x 34" (1:1)  
 MADE IN U.S.A.

SHEET NO. 8 OF 18  
 JOB NO. 75-252





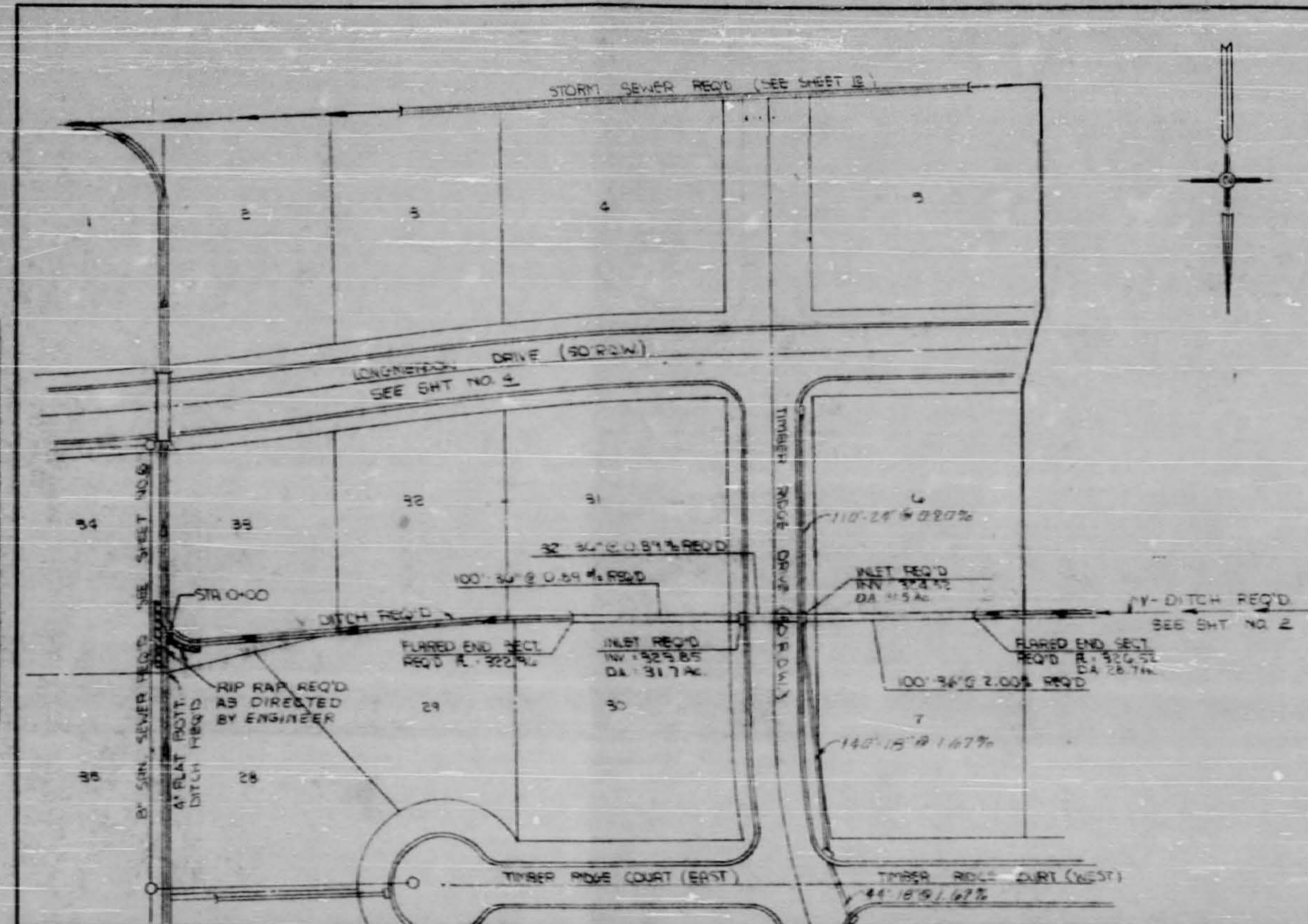


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SHEET NO.	
TOTAL SHEETS	

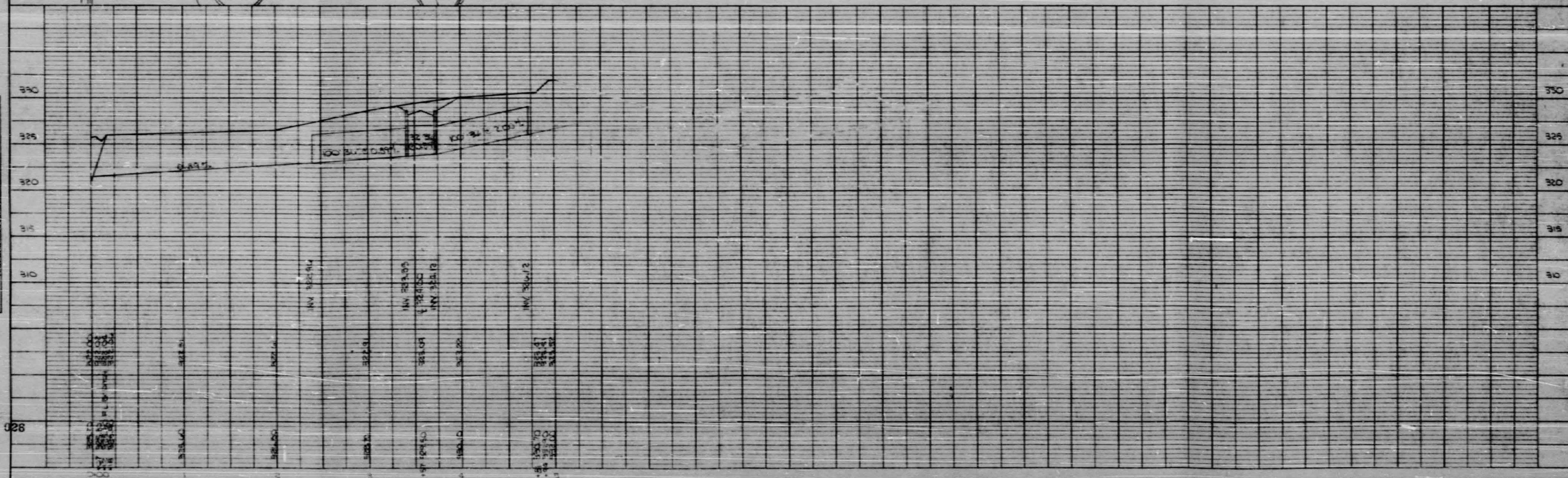
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CHECKED	
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PROJECT	
SHEET NO.	
TOTAL SHEETS	

PLATE 1, PLAN PROFILE  
NO. 1 & 2 OF 11

SHT NO. 10 OF 18  
JOB NO. 75-252



PLAN - STORM SEWER CROSSING AT  
 STA. 1+55 TIMBER RIDGE DR  
 SCALE: 1" = 20' HORIZ.  
 1" = 5' VERT.

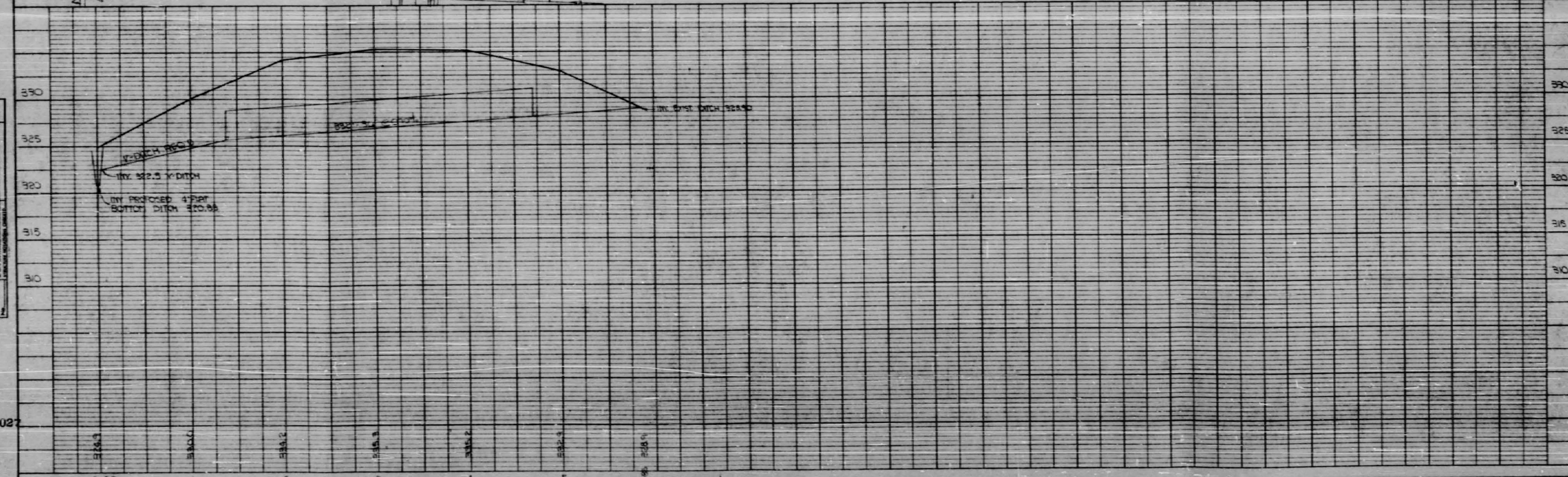
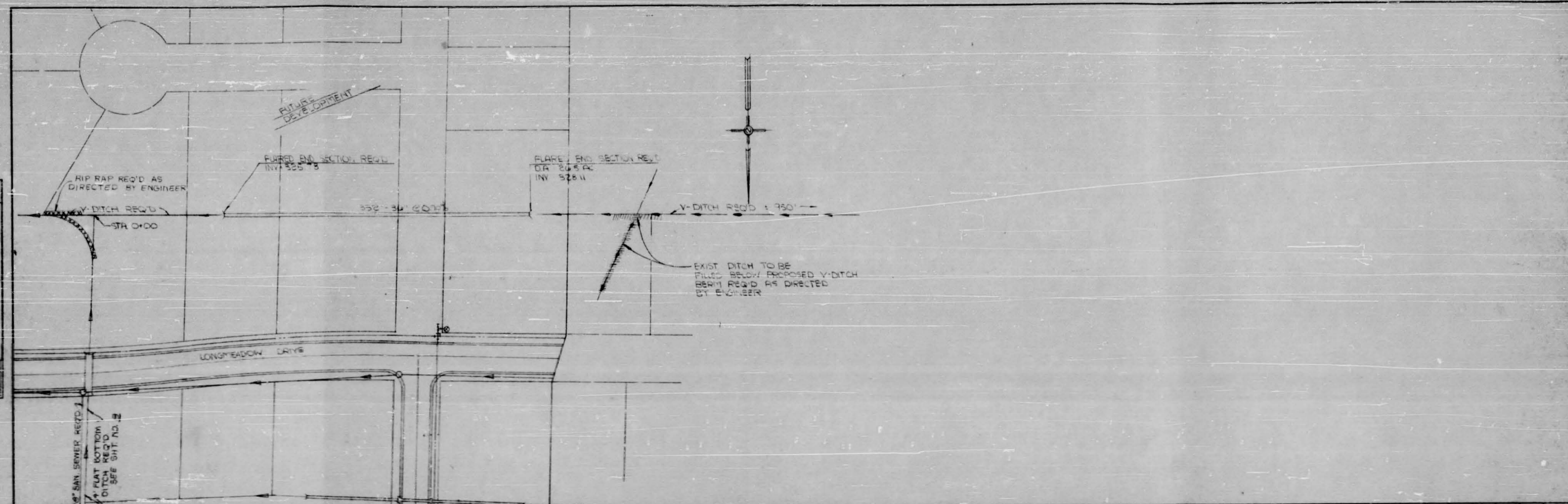


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PROFILE

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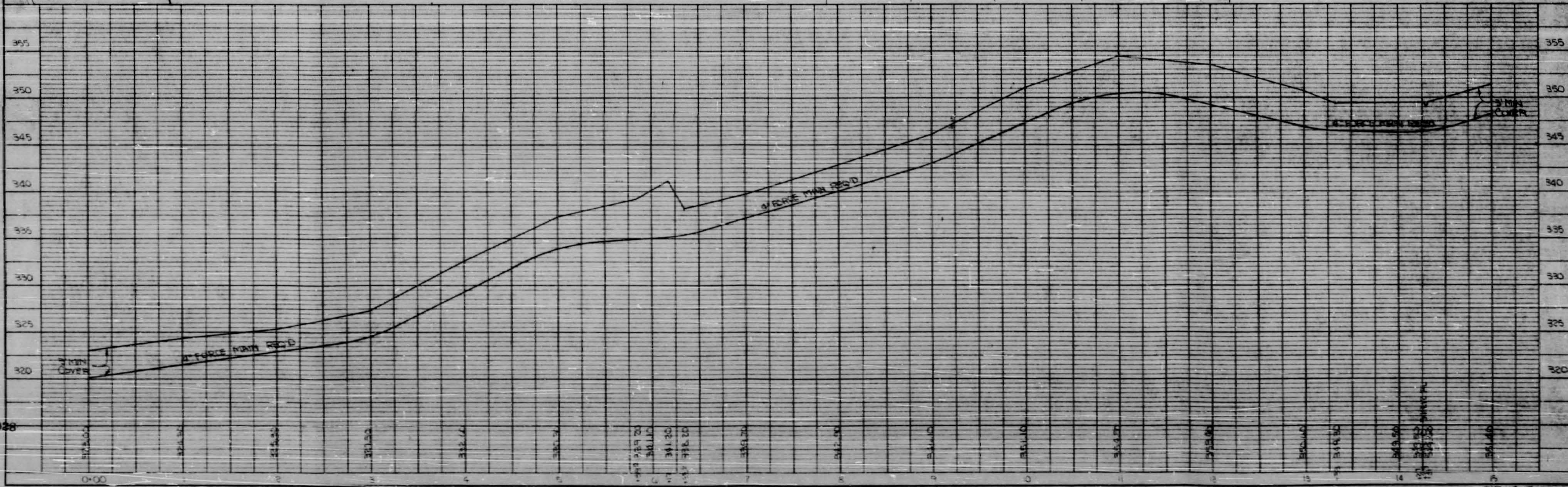
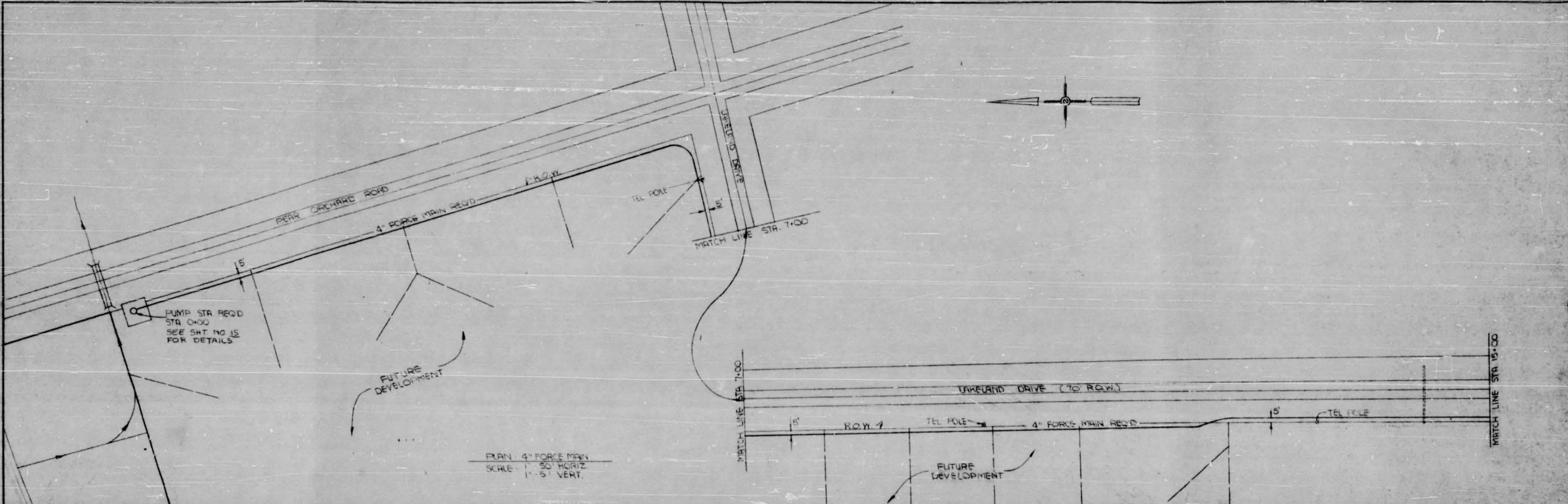


K&E PLATE 1, PLAN PROFILE  
 1990

SHEET NO. 12 OF 18  
 JOB NO. 12-250

PLAN	DATE
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SCALE	
BY	
CHECKED	
APPROVED	

PROFILE	DATE
PROJECT	NO.
SCALE	
BY	
CHECKED	
APPROVED	

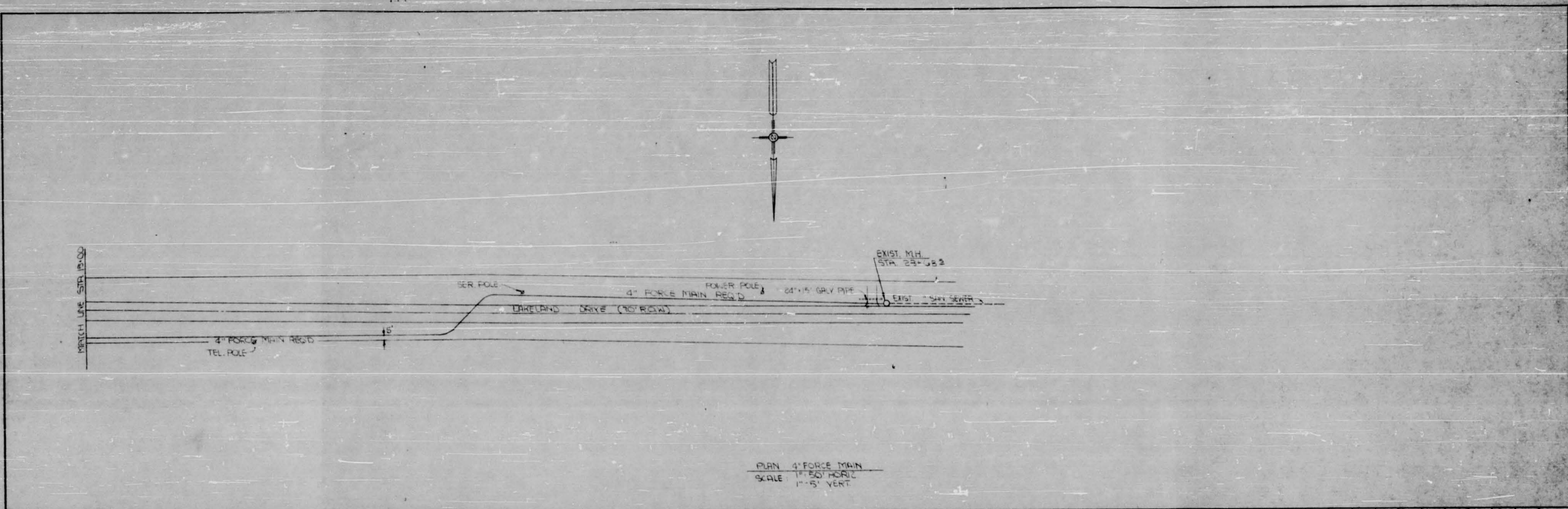


K&E PLATE 1 PLAN/PROFILE  
NO. 1 2008 02  
48 7004 MADE IN U.S.A.

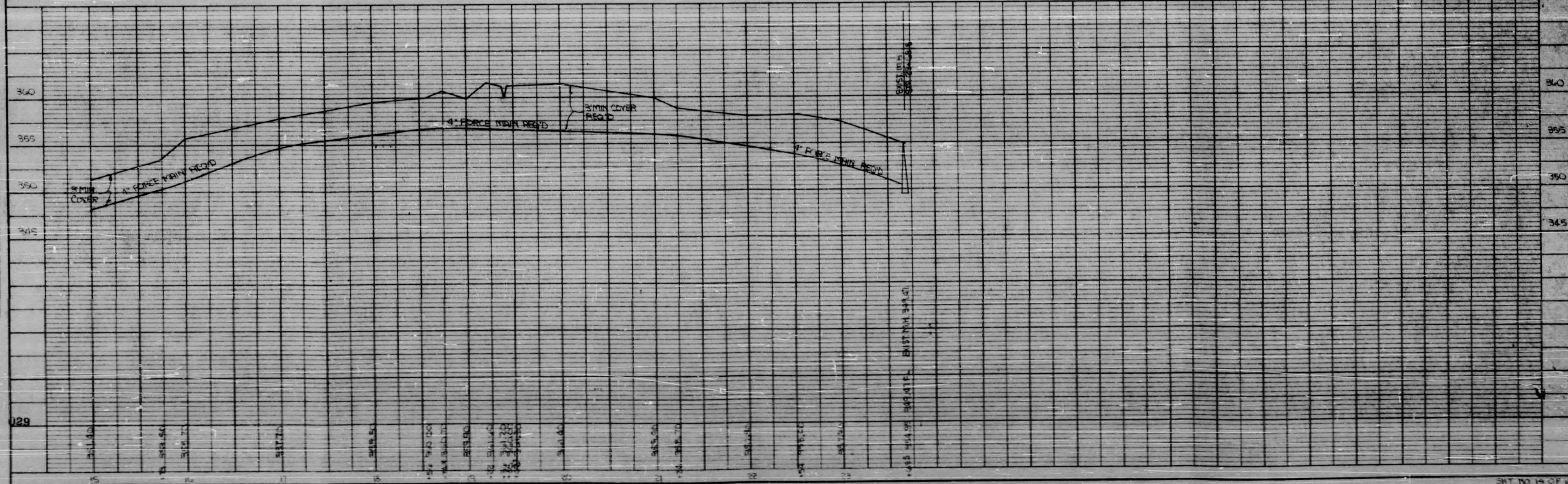
SHT NO 14 OF 16  
JOB NO 75 252

DATE	
BY	
CHECKED BY	
SCALE	
PROJECT	
NO.	

DATE	
BY	
CHECKED BY	
SCALE	
PROJECT	
NO.	

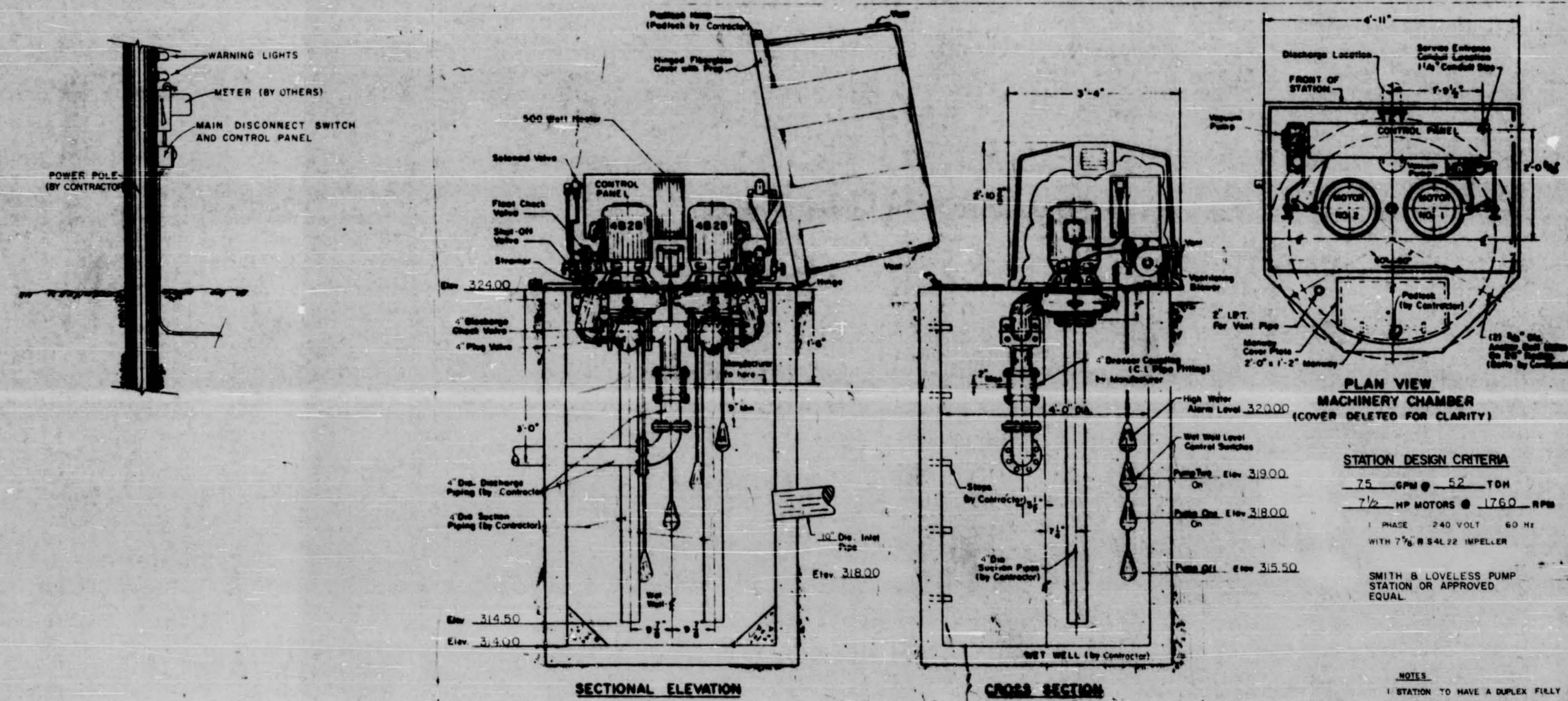


PLAN 4" FORCE MAIN  
SCALE 1"=50' HORIZ  
1"=5' VERT



K&E PLATE L PLAN/PROFILE  
K&E ENGINEERS & ARCHITECTS  
2000 W. 10TH ST. SUITE 100  
DENVER, CO 80202

SHEET NO. 14 OF 15  
JOB NO. 78-026



**STATION DESIGN CRITERIA**  
 75 GPM @ 52 TDH  
 7 1/2 HP MOTORS @ 1725 RPM  
 PHASE 240 VOLT 60 HZ  
 WITH 7/8" B S&L 22 IMPELLER  
 SMITH & LOVELESS PUMP  
 STATION OR APPROVED  
 EQUAL

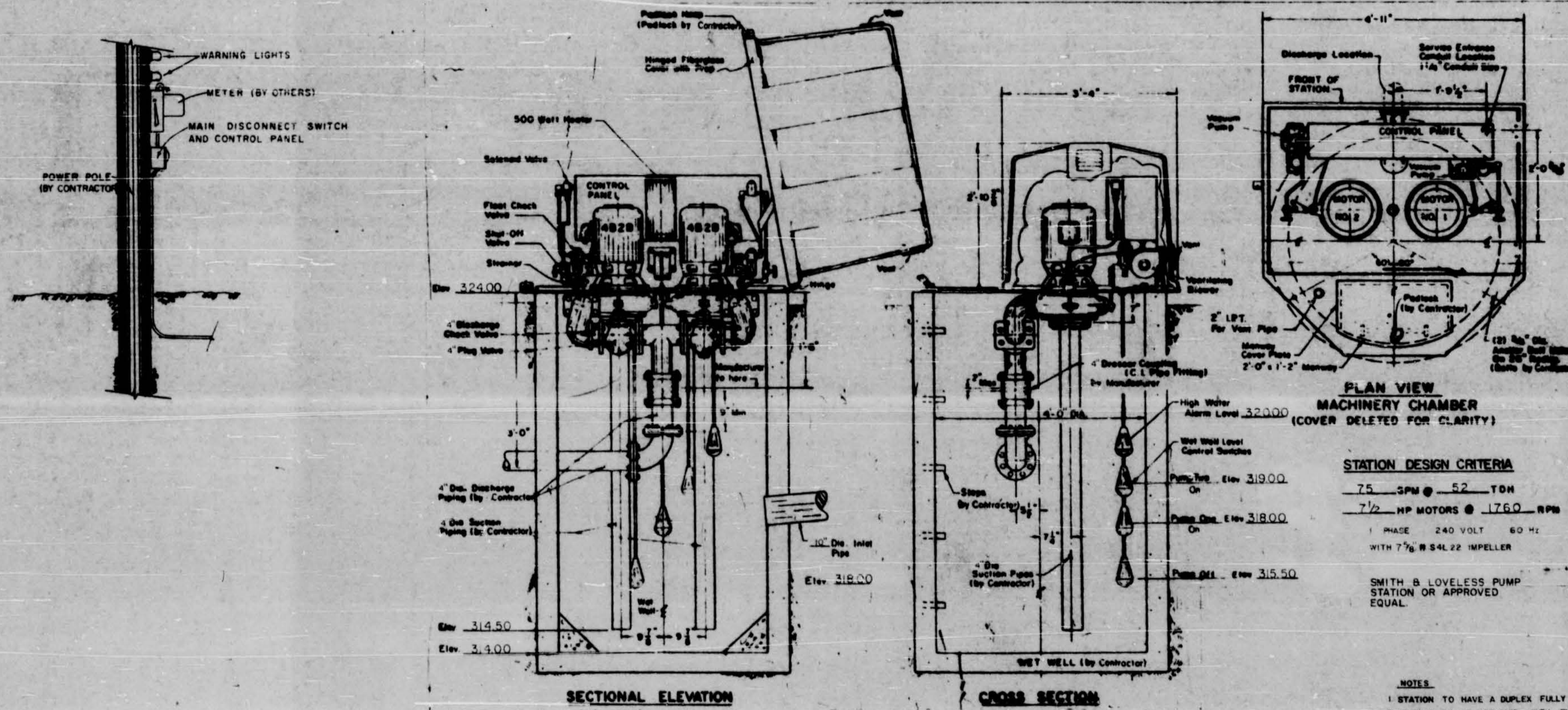
- NOTES:**
1. STATION TO HAVE A DUPLEX FULLY AUTOMATIC ALTERNATING CONTROL SYSTEM
  2. STATION TO BE PROVIDED WITH THE FOLLOWING ADDITIONAL FEATURES:
    - (a) HIGH WATER ALARM SENSOR
    - (b) RED ALARM LIGHT
    - (c) GREEN "POWER ON" LIGHT
    - (d) TWO (2) ELAPSED TIME METERS

NOTE: PREFABRICATED PUMP STATION  
 N.T.S.

H 930

DESIGNED	SCALE: NONE	LESTER ENGINEERING COMPANY CONSULTING ENGINEERS JACKSON, MISSISSIPPI				
DRAWN	REVISED: 7-52					
APPROVED:		PREFABRICATED PUMPING STATION PLAN AND DETAILS				
DATE: 11-9-73						
REV. NO.	DATE	NATURE OF REVISION	BY	CHKD	APPD	SHEET NO. <b>15</b>

SHEET NO. 15 OF 18  
 OR NO. 75-202



**STATION DESIGN CRITERIA**  
 7.5 GPM @ 52 TDH  
 7/8" HP MOTORS @ 1760 RPM  
 1 PHASE 240 VOLT 60 Hz  
 WITH 7/8" B.S. 42 IMPELLER  
 SMITH & LOVELESS PUMP  
 STATION OR APPROVED  
 EQUAL

- NOTES:**
1. STATION TO HAVE A DUPLEX FULLY AUTOMATIC ALTERNATING CONTROL SYSTEM.
  2. STATION TO BE PROVIDED WITH THE FOLLOWING ADDITIONAL FEATURES:
    - (a) HIGH WATER ALARM SENSOR.
    - (b) RED ALARM LIGHT.
    - (c) GREEN "POWER ON" LIGHT.
    - (d) TWO (2) ELAPSED TIME METERS.

NOTE: PREFABRICATED PUMP STATION  
 N.T.S.

DESIGNED	SCALE	NONE
DRAWN	SHEET NO.	15
APPROVED	DATE	10-23
REV. NO.	NATURE OF REVISION	BY
		CHKD
		APPRD

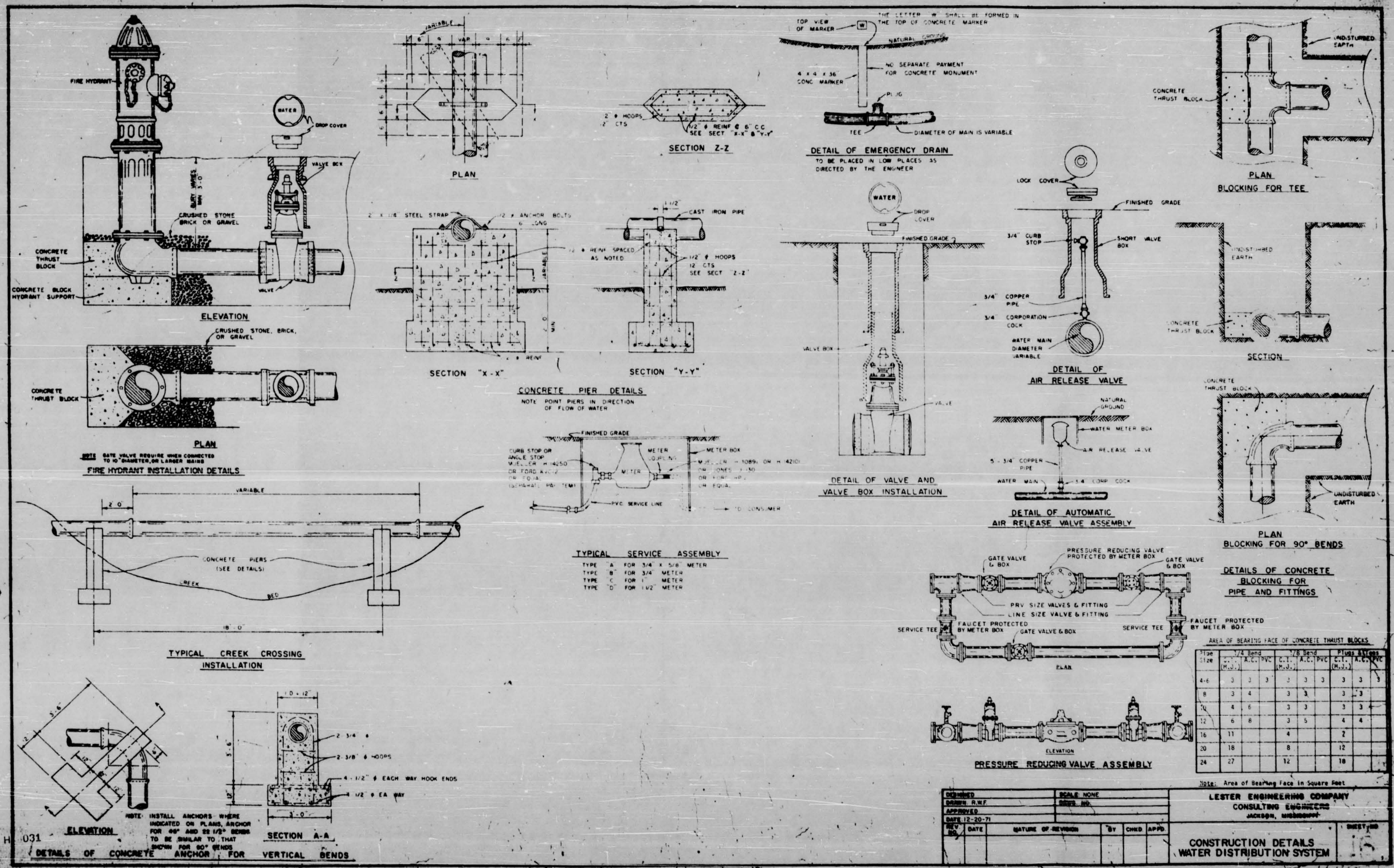
**LESTER ENGINEERING COMPANY**  
 CONSULTING ENGINEERS  
 JACON, MISSOURI

PREFABRICATED PUMPING STATION  
 PLAN AND DETAILS

SHEET NO.  
**15**

SHIT NO. 15 OF 18  
 10-23-52





**CONCRETE PIER DETAILS**  
NOTE: POINT PIERS IN DIRECTION OF FLOW OF WATER

**TYPICAL SERVICE ASSEMBLY**  
TYPE A FOR 3/4" x 5/8" METER  
TYPE B FOR 3/4" METER  
TYPE C FOR 1" METER  
TYPE D FOR 1 1/2" METER

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS

PIPE SIZE (IN.)	1/2 Bend	3/4 Bend	1/8 Bend	PIERS (IN.)
1 1/2	3	3	3	3
2	3	3	3	3
3	3	3	3	3
4	3	3	3	3
6	4	3	3	3
8	4	3	3	3
12	6	3	3	4
16	11	4	3	2
20	18	8	3	12
24	27	12	3	18

SCALE NONE

DESIGNED BY: [ ]

APPROVED BY: [ ]

DATE: 12-20-71

REVISION: [ ]

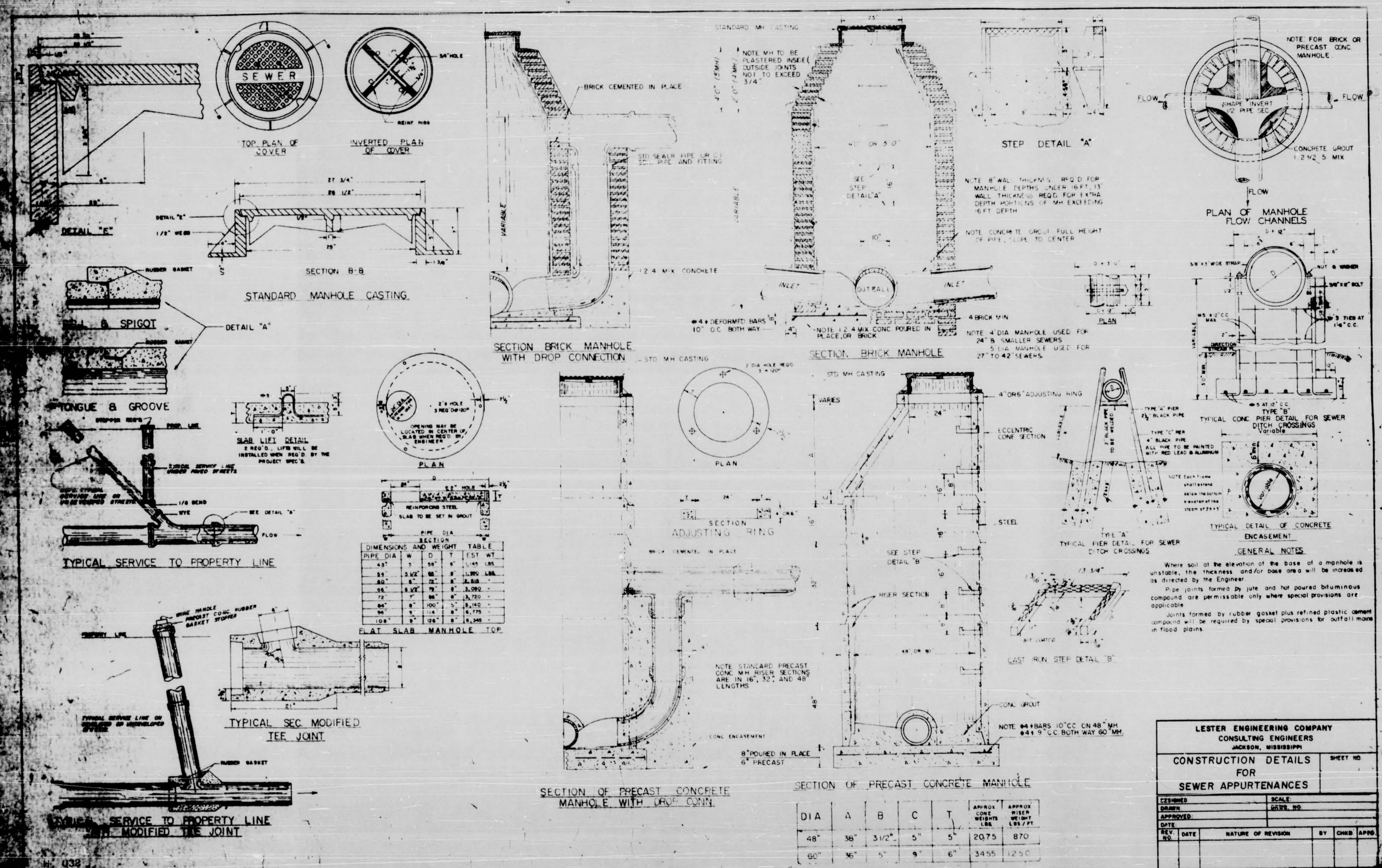
BY: [ ]

CHKD: [ ]

APPD: [ ]

LESTER ENGINEERING COMPANY  
CONSULTING ENGINEERS  
JACKSON, MISSISSIPPI

CONSTRUCTION DETAILS  
WATER DISTRIBUTION SYSTEM



**DIMENSIONS AND WEIGHT TABLE**

PIPE DIA	SECTION	W	D	T	TEST WT
36"	1	36"	48"	5"	1,440 LBS.
48"	1	48"	60"	5"	2,075 LBS.
60"	1	60"	72"	5"	2,710 LBS.
36"	2	36"	48"	5"	1,440 LBS.
48"	2	48"	60"	5"	2,075 LBS.
60"	2	60"	72"	5"	2,710 LBS.
36"	3	36"	48"	5"	1,440 LBS.
48"	3	48"	60"	5"	2,075 LBS.
60"	3	60"	72"	5"	2,710 LBS.

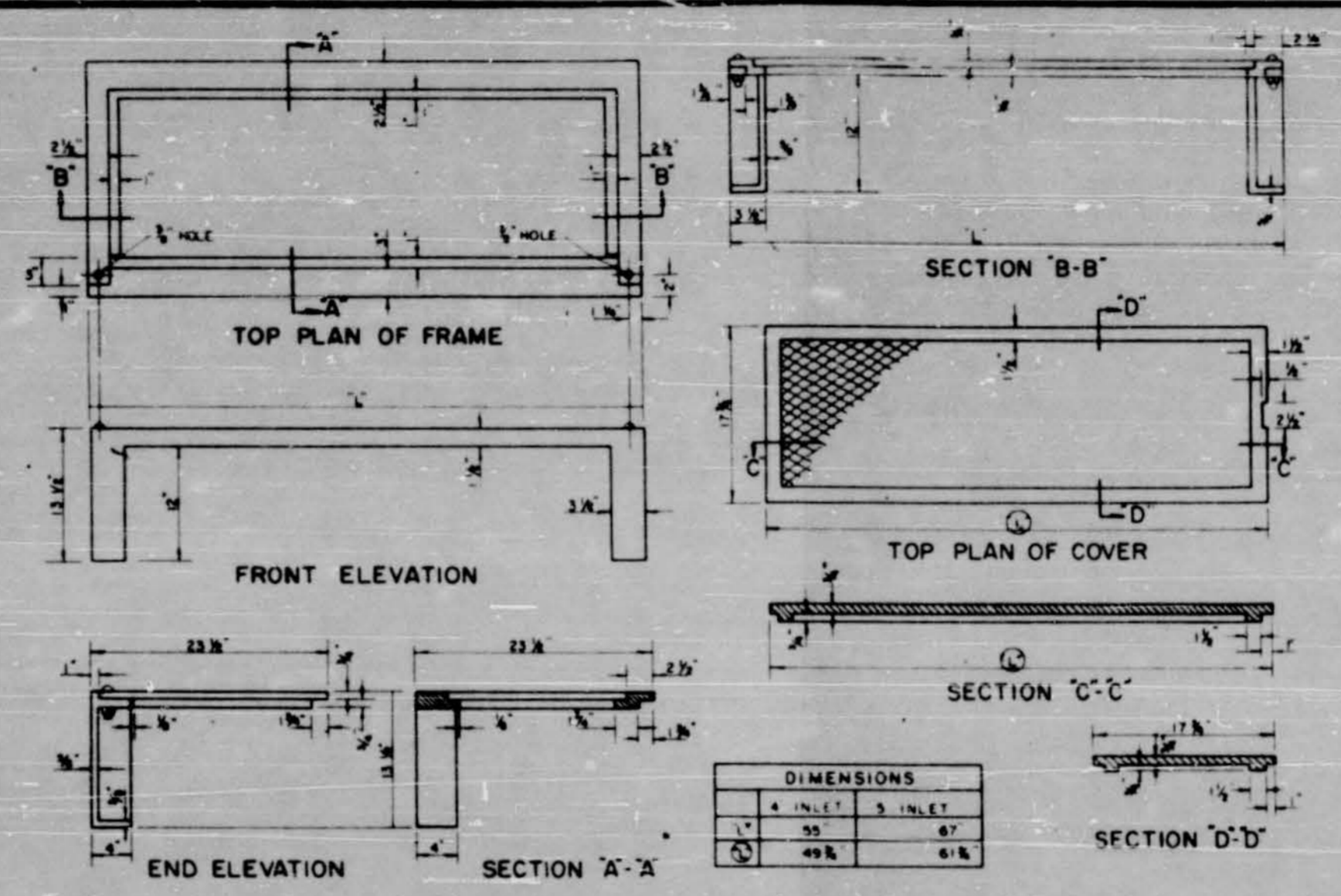
**LESTER ENGINEERING COMPANY**  
 CONSULTING ENGINEERS  
 JACKSON, MISSISSIPPI

**CONSTRUCTION DETAILS**  
 FOR  
**SEWER APPURTENANCES**

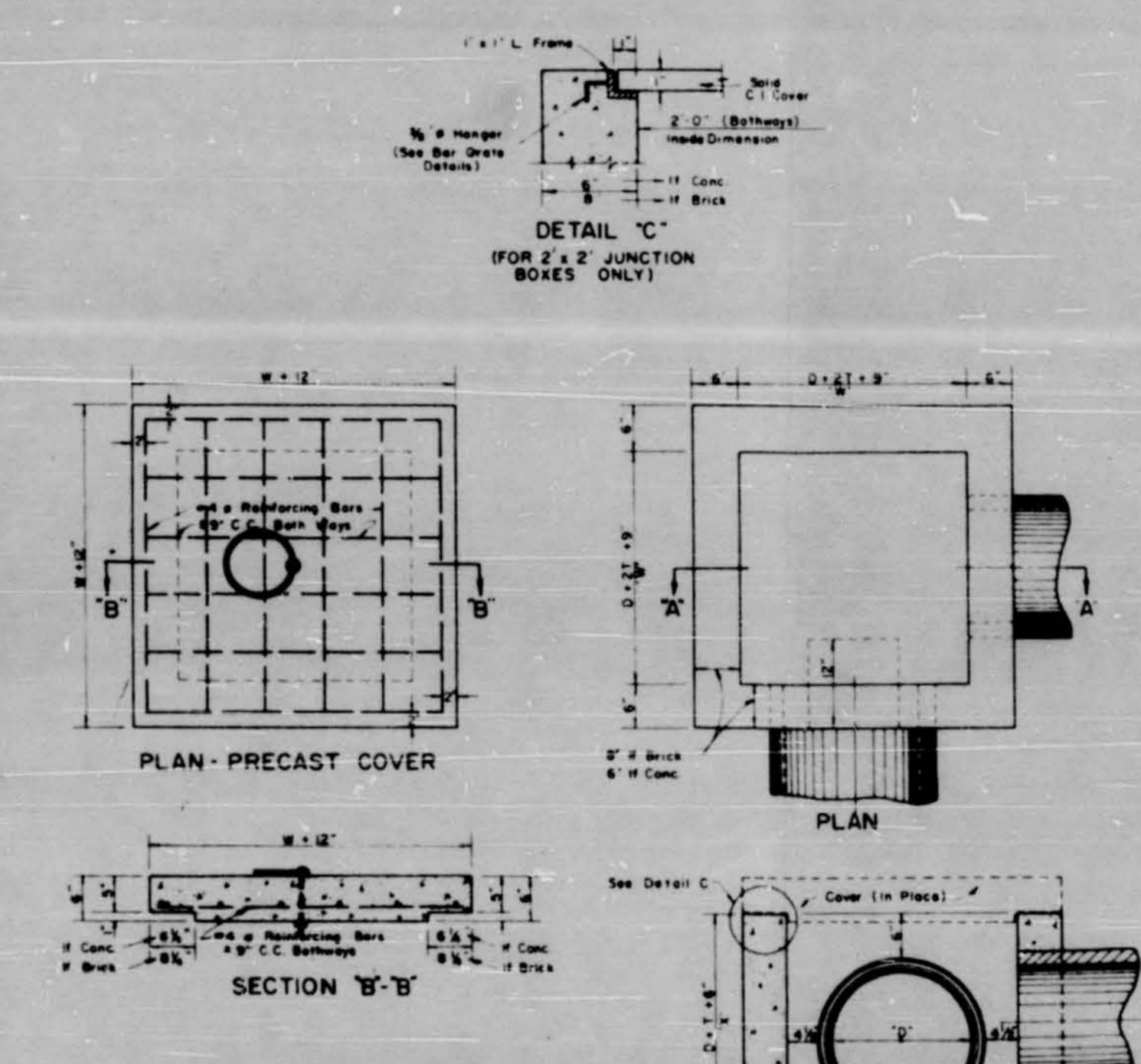
SHEET NO. \_\_\_\_\_

DESIGNED	SCALE				
DRAWN	DRAWING NO.				
APPROVED					
DATE					
REV. NO.	DATE	NATURE OF REVISION	BY	CHKD	APPR.

DIA	A	B	C	T	APPROX. CONC. WEIGHTS LBS.	APPROX. RIBBED WEIGHT LBS. FT.
48"	36"	3 1/2"	5"	5"	2075	870
60"	48"	5"	9"	6"	3455	1250

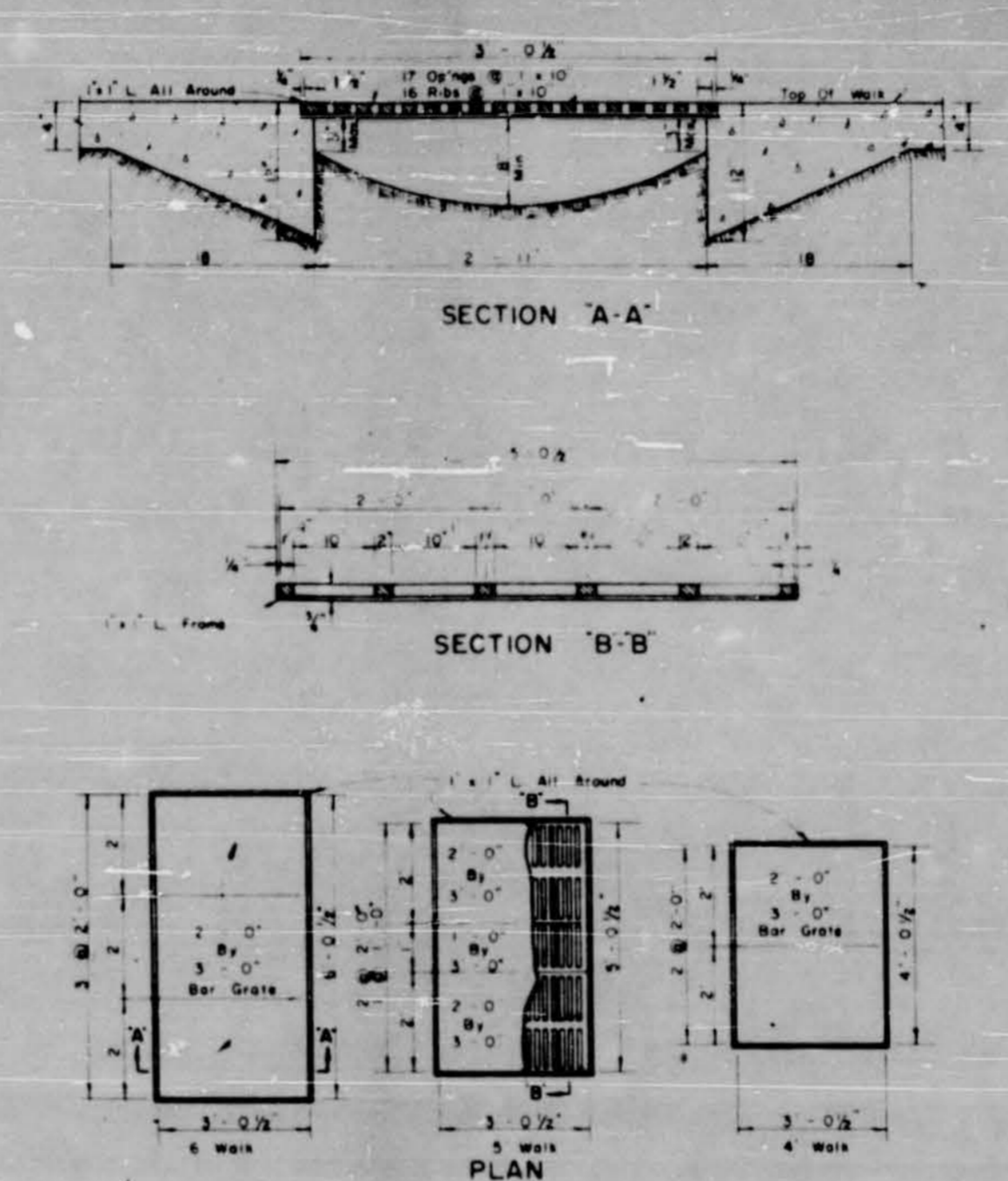


**CURB INLET CASTING DETAILS**  
(NON-TRAFFIC)

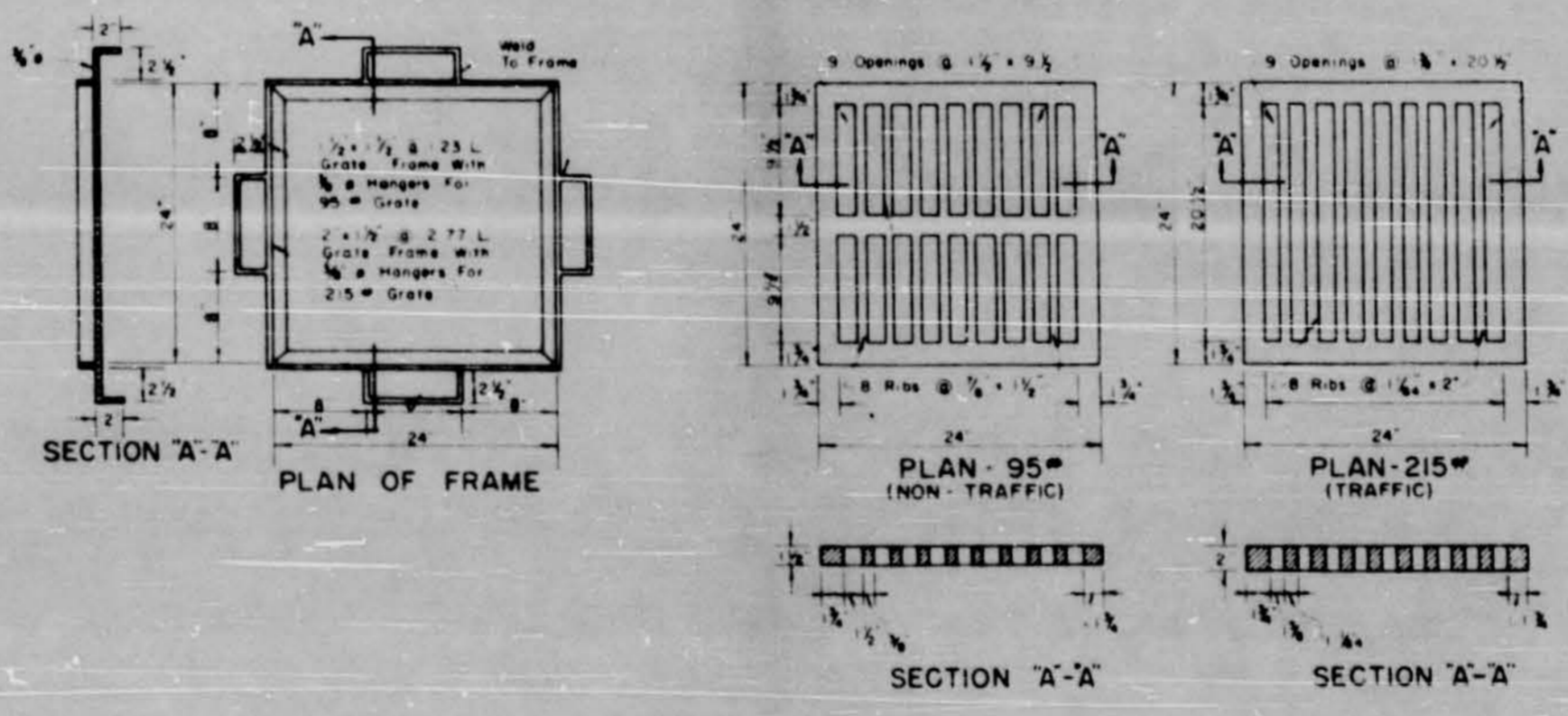


CONCRETE JUNCTION BOX		DIMENSIONS		QUANTITIES	
TYPE	SIZE	INLET	OUTLET	PER BOX	PER 100' OF BOX
1	18" x 18"	12"	12"	1.00	1.00
2	24" x 24"	18"	18"	1.00	1.00
3	30" x 30"	24"	24"	1.00	1.00
4	36" x 36"	30"	30"	1.00	1.00
5	42" x 42"	36"	36"	1.00	1.00
6	48" x 48"	42"	42"	1.00	1.00
7	54" x 54"	48"	48"	1.00	1.00
8	60" x 60"	54"	54"	1.00	1.00
9	66" x 66"	60"	60"	1.00	1.00
10	72" x 72"	66"	66"	1.00	1.00

**JUNCTION BOX DETAILS**

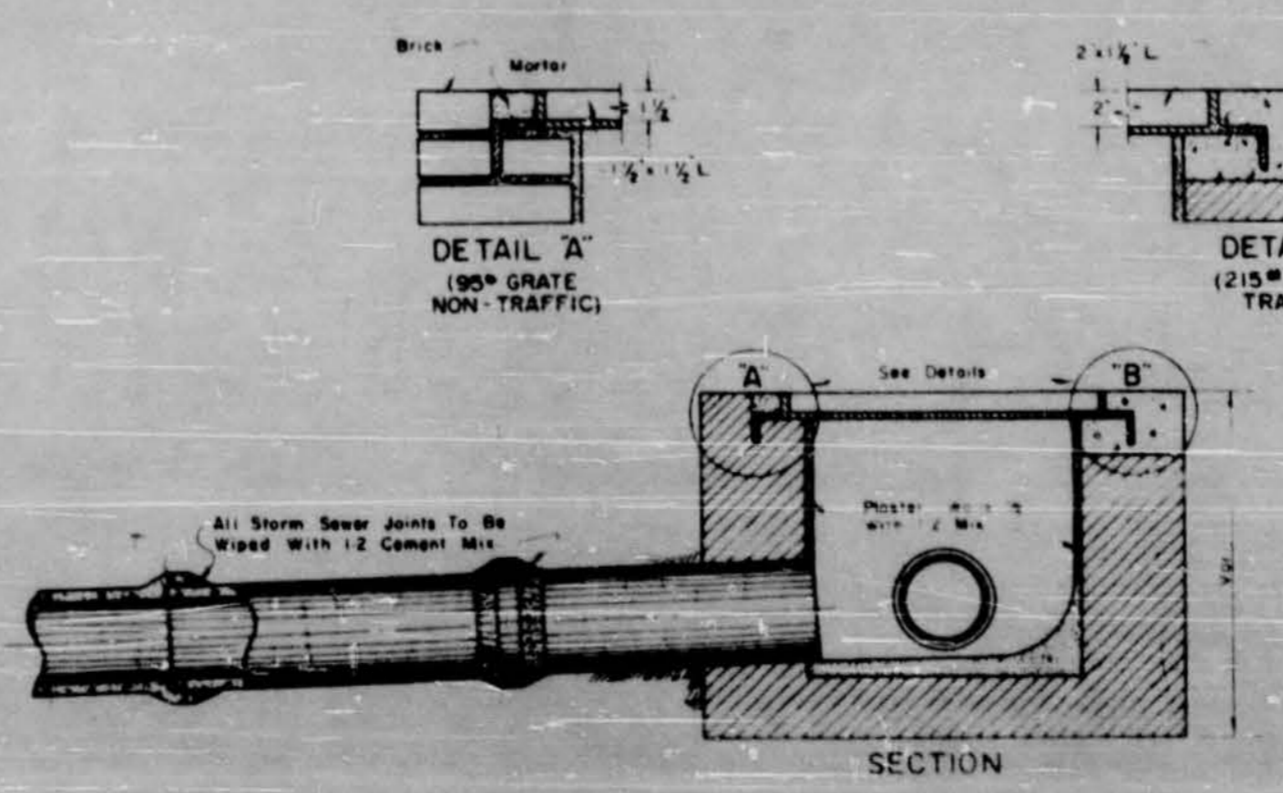


**WALK GRATING DETAILS**  
(NON-TRAFFIC)

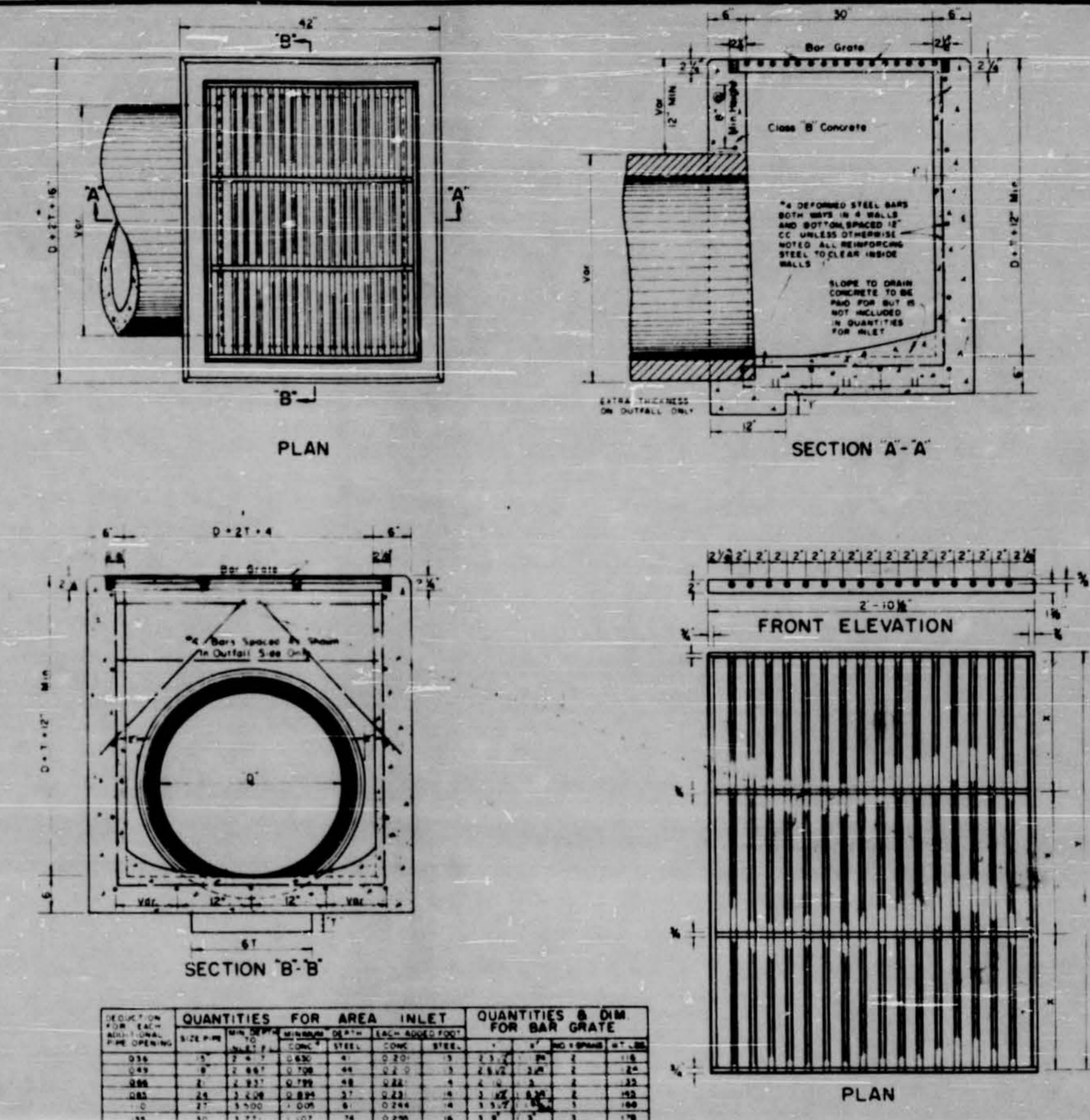


QUANTITIES FOR AREA INLET		QUANTITIES & DIM FOR MAN GRATE	
TYPE	SIZE	INLET	MAN GRATE
1	18" x 18"	1.00	1.00
2	24" x 24"	1.00	1.00
3	30" x 30"	1.00	1.00
4	36" x 36"	1.00	1.00
5	42" x 42"	1.00	1.00
6	48" x 48"	1.00	1.00
7	54" x 54"	1.00	1.00
8	60" x 60"	1.00	1.00
9	66" x 66"	1.00	1.00
10	72" x 72"	1.00	1.00

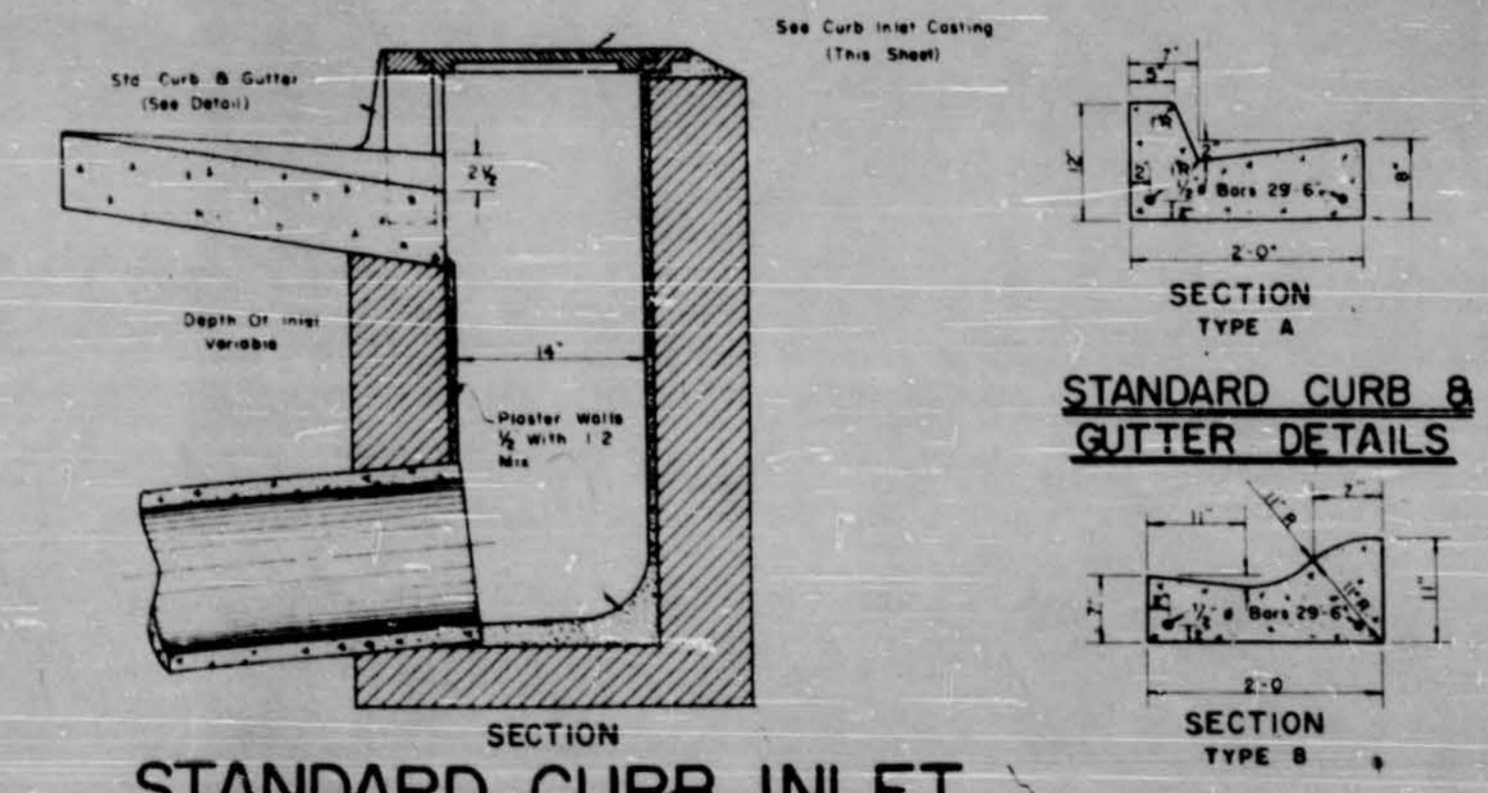
**AREA INLET DETAILS**  
(NON-TRAFFIC)



**GRATE INLET & COVER DETAILS**



**STANDARD CURB INLET**



**STANDARD CURB & GUTTER DETAILS**

DESIGNED BY <b>ROBERT T. B.</b>	SCALE NONE	LESTER ENGINEERING COMPANY CONSULTING ENGINEERS JACKSON, MISSISSIPPI
APPROVED	DRAWN BY	
DATE	NATURE OF REVISION	STANDARD STORM SEWER APPURTENANCES
REV. NO.	BY	

H 033

SHEET NO.