

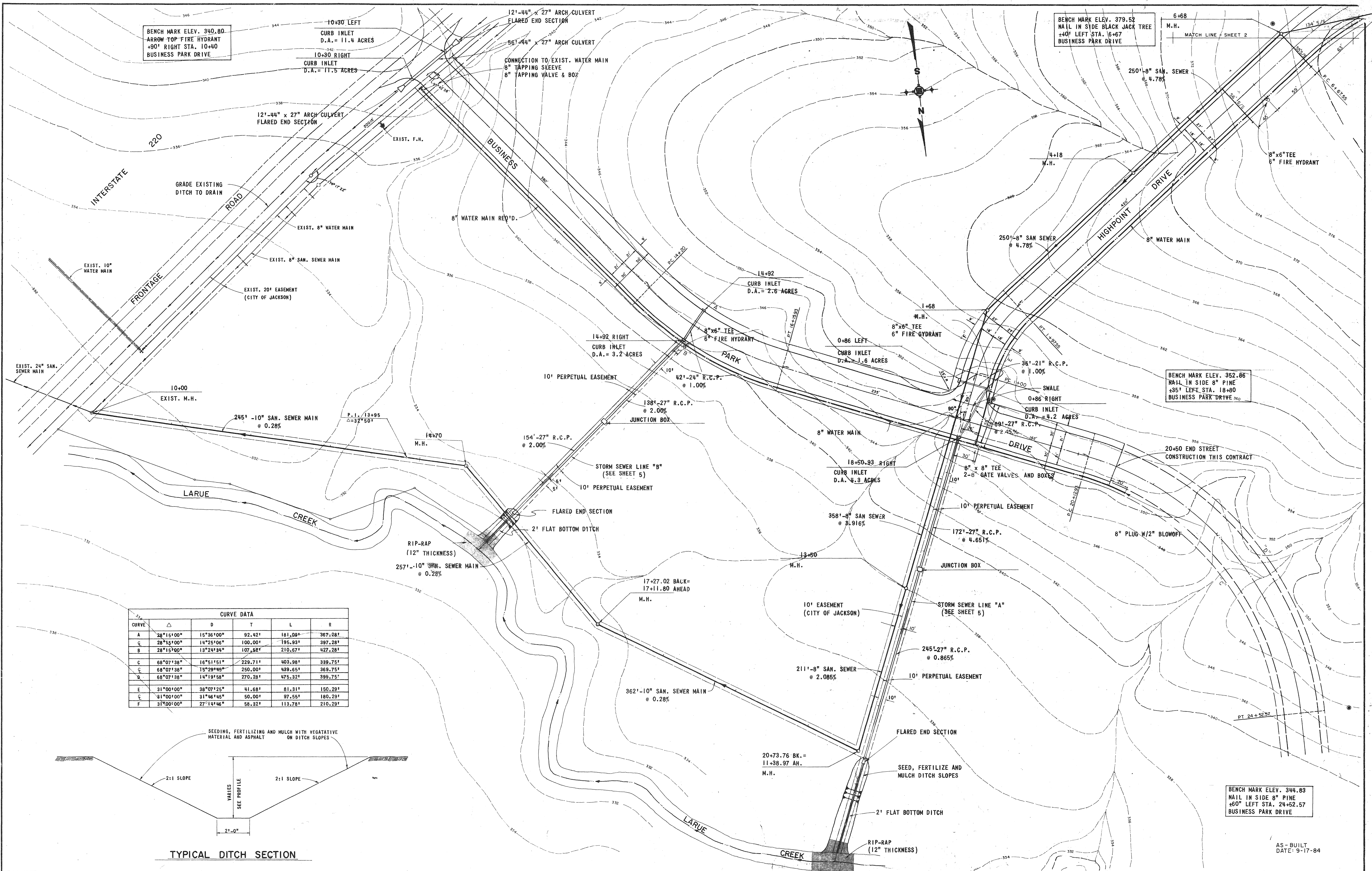
**PHASE 2**  
**TIMMS PROPERTY DEVELOPMENT**

**MADISON COUNTY, MISSISSIPPI**

AS - BUILT  
DATE: 9-17-84

QM-1612 (S)





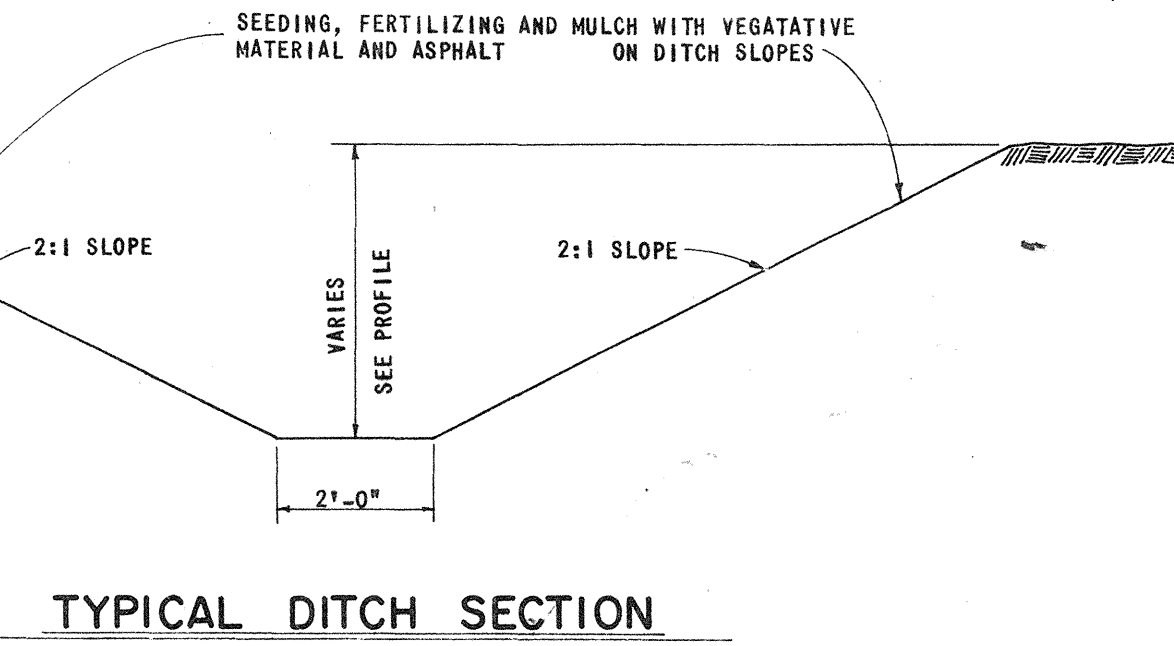
BENCH MARK ELEV. 340.80  
 ARROW TOP FIRE HYDRANT  
 +90' RIGHT STA. 10+40  
 BUSINESS PARK DRIVE

BENCH MARK ELEV. 379.52  
 NAIL IN SIDE BLACK JACK TREE  
 +40' LEFT STA. 6+67  
 BUSINESS PARK DRIVE

BENCH MARK ELEV. 352.86  
 NAIL IN SIDE 8" PINE  
 +35' LEFT STA. 18+80  
 BUSINESS PARK DRIVE

BENCH MARK ELEV. 344.83  
 NAIL IN SIDE 8" PINE  
 +60' LEFT STA. 24+52.57  
 BUSINESS PARK DRIVE

CURVE DATA					
CURVE	Δ	D	T	L	R
A	28°15'00"	15°36'00"	92.421	181.00'	387.281
B	28°15'00"	14°25'06"	100.00'	195.93'	397.281
C	28°15'00"	13°24'34"	107.52'	210.67'	427.281
D	68°07'38"	16°51'51"	229.71'	403.98'	399.75'
E	68°07'38"	15°29'46"	250.00'	439.65'	369.75'
F	68°07'38"	14°19'58"	270.28'	475.32'	399.75'
G	31°00'00"	38°07'25"	41.68'	81.31'	150.29'
H	31°00'00"	31°46'45"	50.00'	97.55'	180.29'
I	31°00'00"	27°14'46"	58.32'	113.78'	210.29'



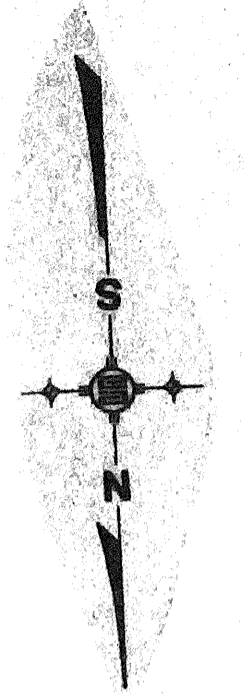
DESIGNED D.B.		DATE 4-19-82				<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI				PROJECT LAYOUT		PROJECT NO	
DRAWN B.C.B.		SCALE 1" = 50'								CHECKED J.L.J.		JOB NO. 8124	
NO.		DATE		NATURE		BY		APP'D.		REVISIONS			

AS-BUILT  
 DATE: 9-17-84

BM-1612 (5)

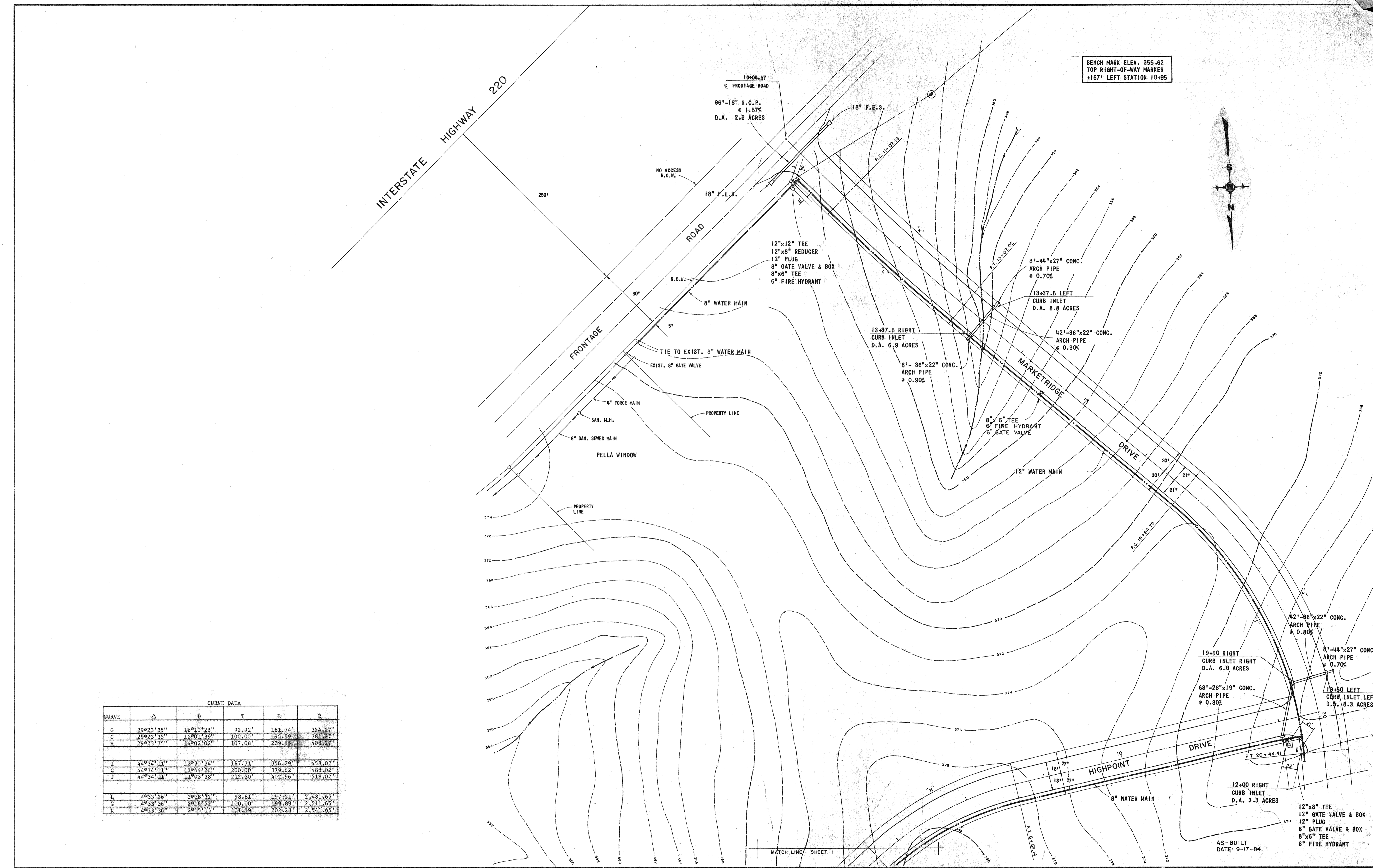
INTERSTATE HIGHWAY 220

BENCH MARK ELEV. 355.62  
TOP RIGHT-OF-WAY MARKER  
±167' LEFT STATION 10+95



CURVE DATA

CURVE	Δ	D	T	L	R
G	29°23'35"	16°10'22"	92.92'	181.74'	354.27'
C	29°23'35"	15°01'39"	100.00'	195.59'	381.27'
H	29°23'35"	14°02'02"	107.08'	209.45'	408.27'
I	44°34'11"	12°30'34"	187.71'	356.29'	458.02'
C	44°34'11"	11°44'26"	200.00'	379.62'	488.02'
J	44°34'11"	11°03'38"	212.30'	402.96'	518.02'
L	4°33'36"	2°18'52"	98.81'	197.51'	2,481.65'
C	4°33'36"	2°16'52"	100.00'	199.89'	2,511.65'
K	4°33'36"	2°15'15"	101.19'	202.28'	2,541.65'



MATCH LINE - SHEET 1

AS-BUILT DATE: 9-17-84

DESIGNED	DATE	4-20-84
DRAWN	O. B.	SCALE
CHECKED	J. L. J.	JOB NO.
NO.	DATE	NATURE
		REVISIONS

STATE OF MISSISSIPPI  
REGISTERED PROFESSIONAL ENGINEER  
NO. 4001

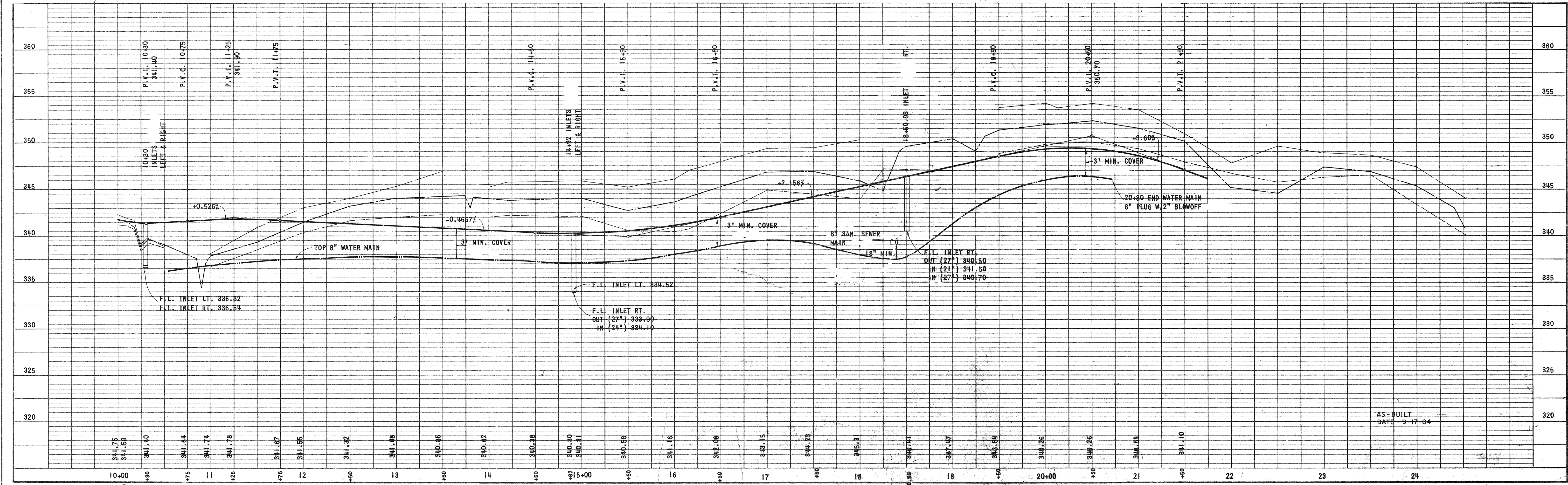
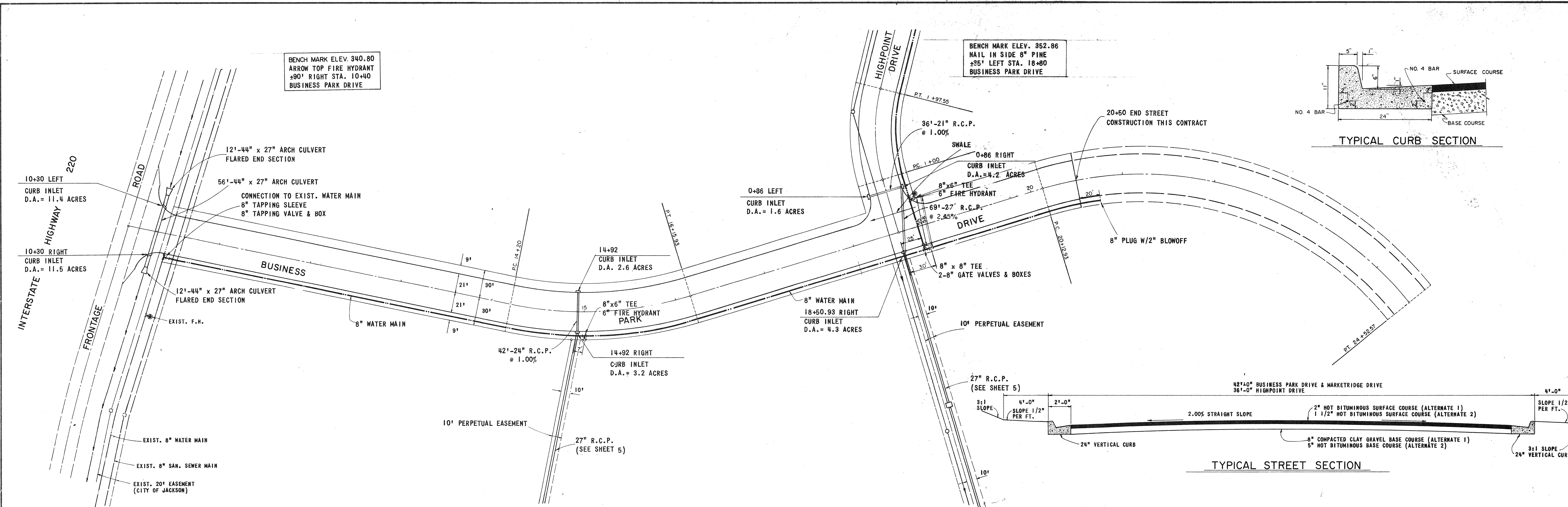
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI

STATE OF MISSISSIPPI  
REGISTERED PROFESSIONAL ENGINEER  
NO. 2222

PROJECT LAYOUT  
PHASE 2  
TIMMS PROPERTY DEVELOPMENT

PROJECT NO	
CONTRACT	
SHEET	2

9-11-1612 (5)

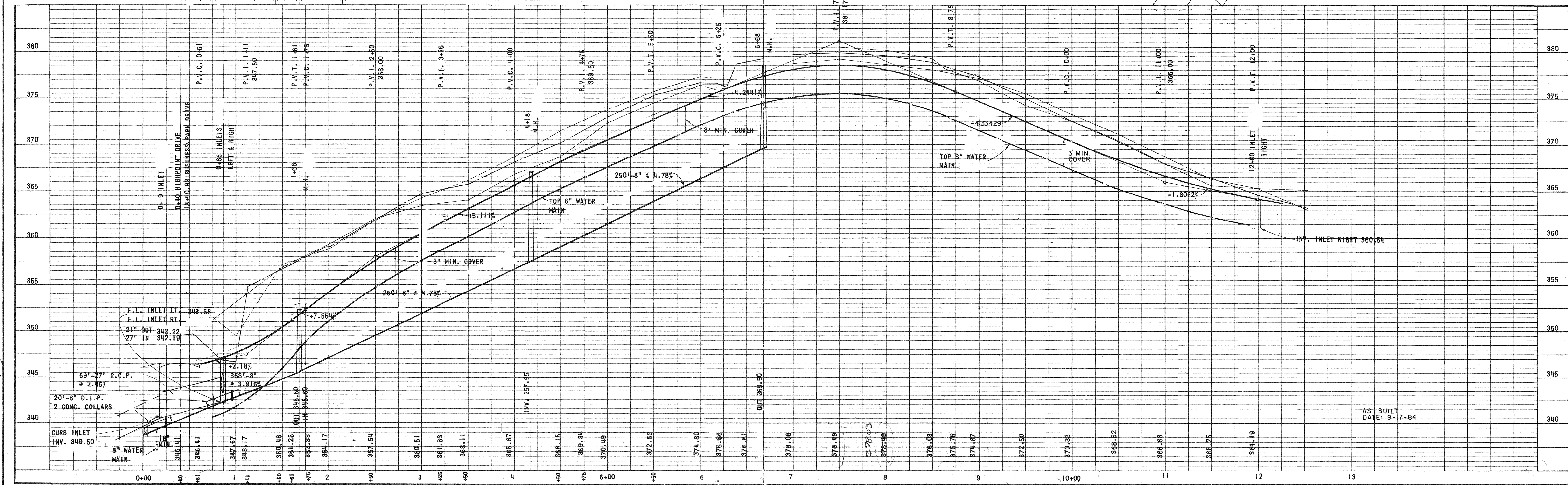
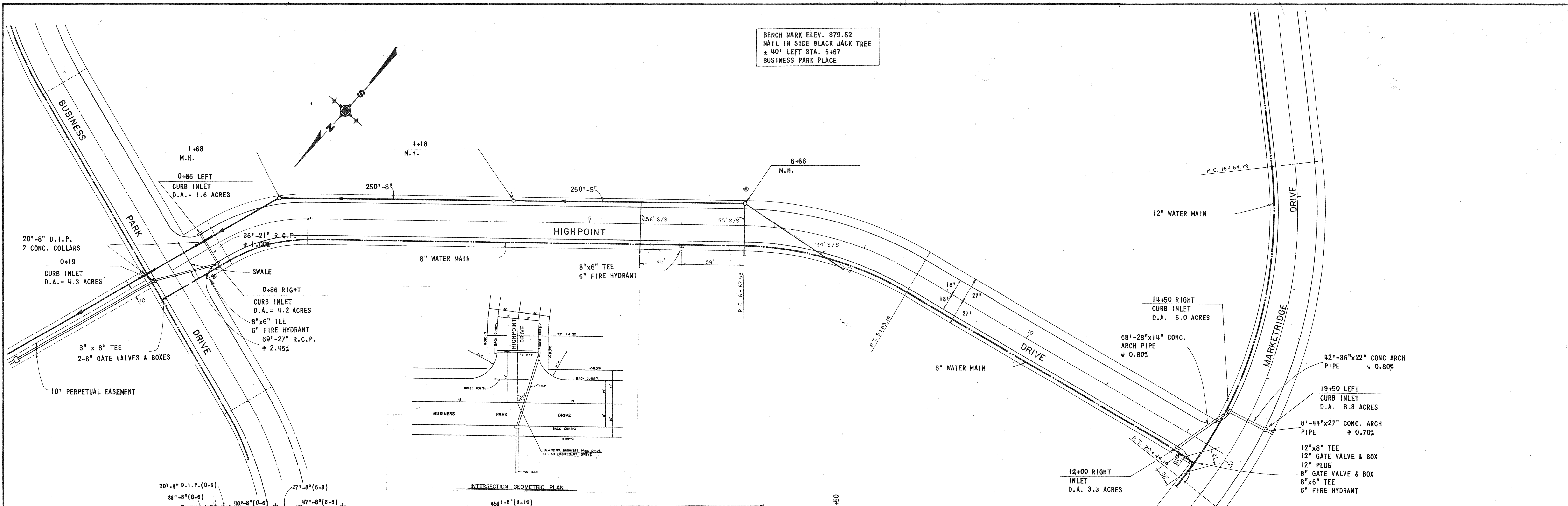


	DESIGNED D.B.	DATE 4-19-82		UNDERWOOD DEVELOPMENT COMPANY				PLAN PROFILE BUSINESS PARK DRIVE	PROJECT NO.
	DRAWN B.C.B.	SCALE 1" = 50'		ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS				PHASE 2	TIMMS PROPERTY DEVELOPMENT
NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED J.L.J.	JOB NO. 8124	AS-BUILT DATE 9-17-84		3

Lickover, Sheet B, Page 10-23

9-17-84

BENCH MARK ELEV. 379.52  
 NAIL IN SIDE BLACK JACK TREE  
 ± 40' LEFT STA. 6+67  
 BUSINESS PARK PLACE



Lakeover Book 8, Pg. 24-25

NO.	DATE	NATURE	BY	APP'D.
1	4-19-84	EXTEND HIGHPOINT DRIVE	DB	

DESIGNED DB	DATE 4-19-84
DRAWN BCB	SCALE 1" = 50'
CHECKED JLJ	JOB NO. 8124

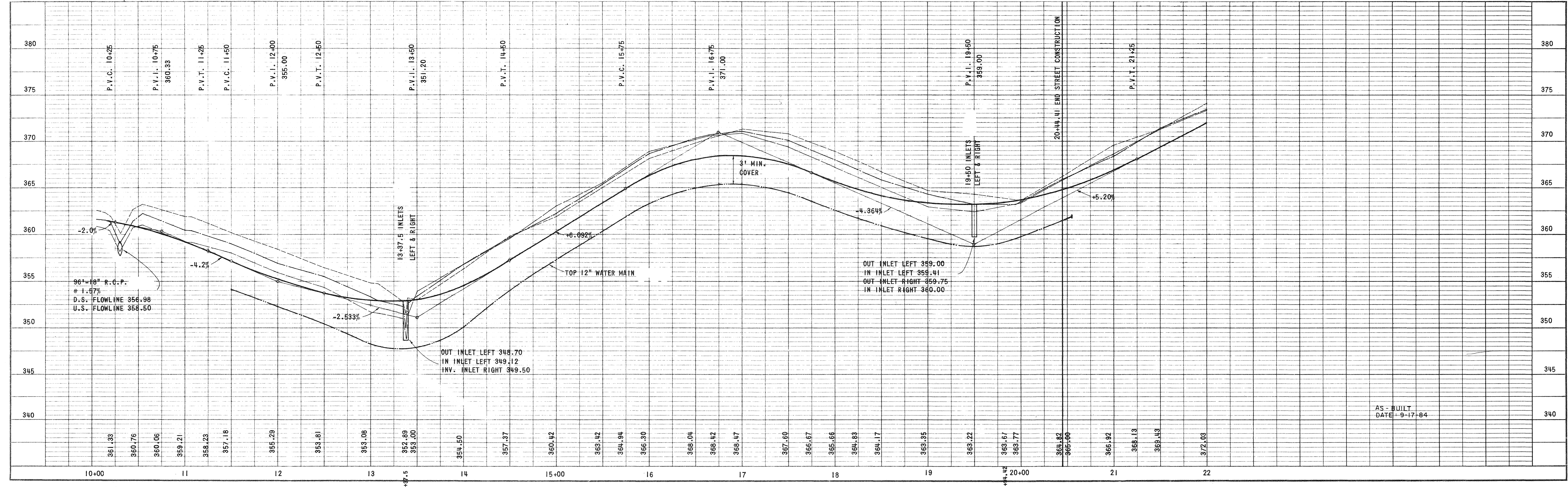
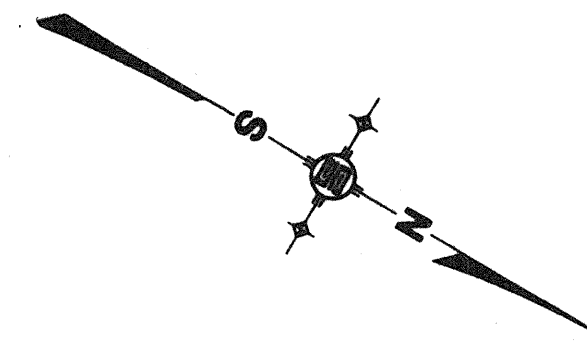
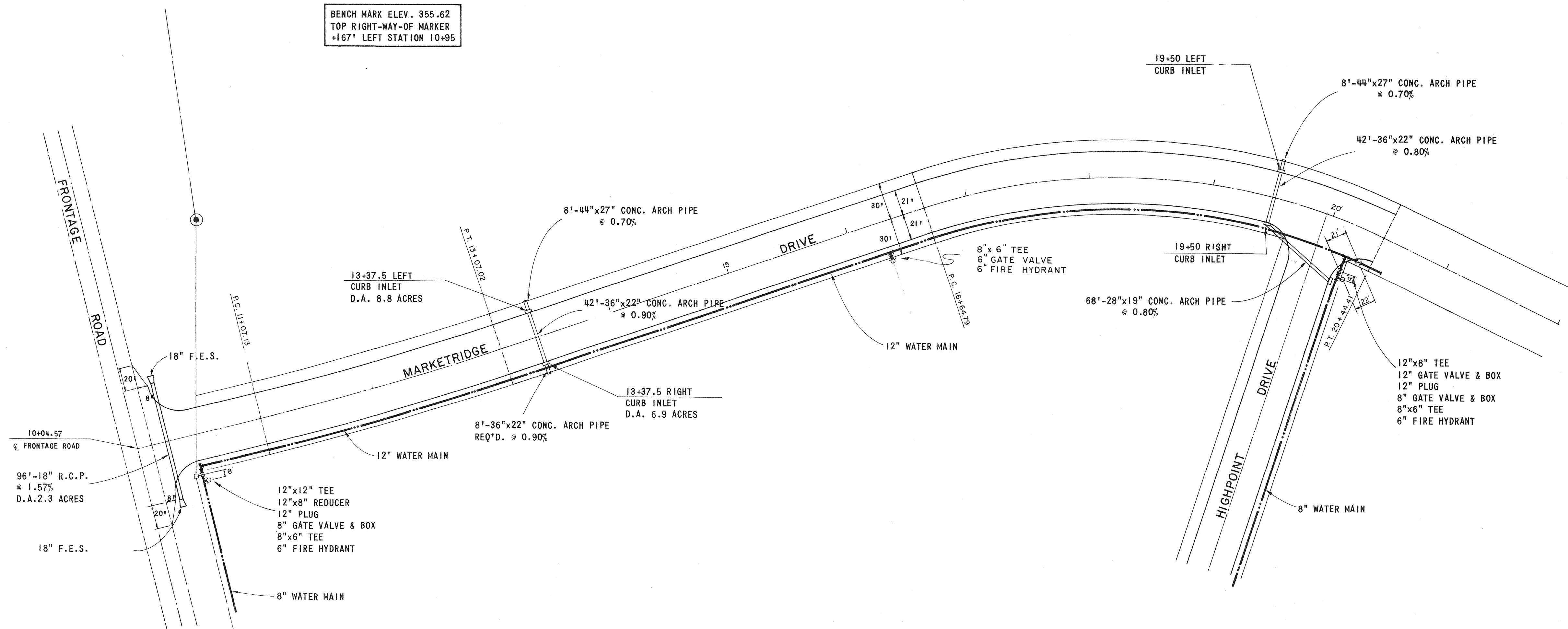
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI

PLAN PROFILE HIGHPOINT DRIVE		PROJECT NO.
PHASE 2 TIMMS PROPERTY DEVELOPMENT		CONTRACT SHEET 4

B.M. 1612 (31)

LAKEOVER BOOK 8 PAGE 18-19 (STA 13+07.02 TO STA. 22+00)  
LAKEOVER BOOK 9 PAGE 19 (STA. 10+04.57 TO STA. 13+07.02)

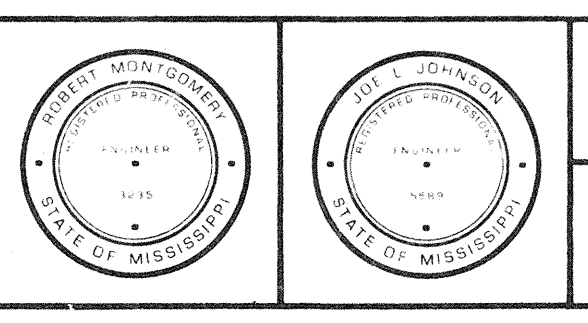
LAKEOVER BOOK 8 PAGE 50-56 (STA 13+07.02 TO STA. 22+00)  
LAKEOVER BOOK 9 PAGE 20-21 (STA. 10+04.57 TO STA. 13+07.02)



NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED	JOB NO.
					J.L.J.	8124

DESIGNED DATE 4-19-84  
DRAWN SCALE 1"=50'  
D.B.  
CHECKED J.L.J.  
JOB NO. 8124

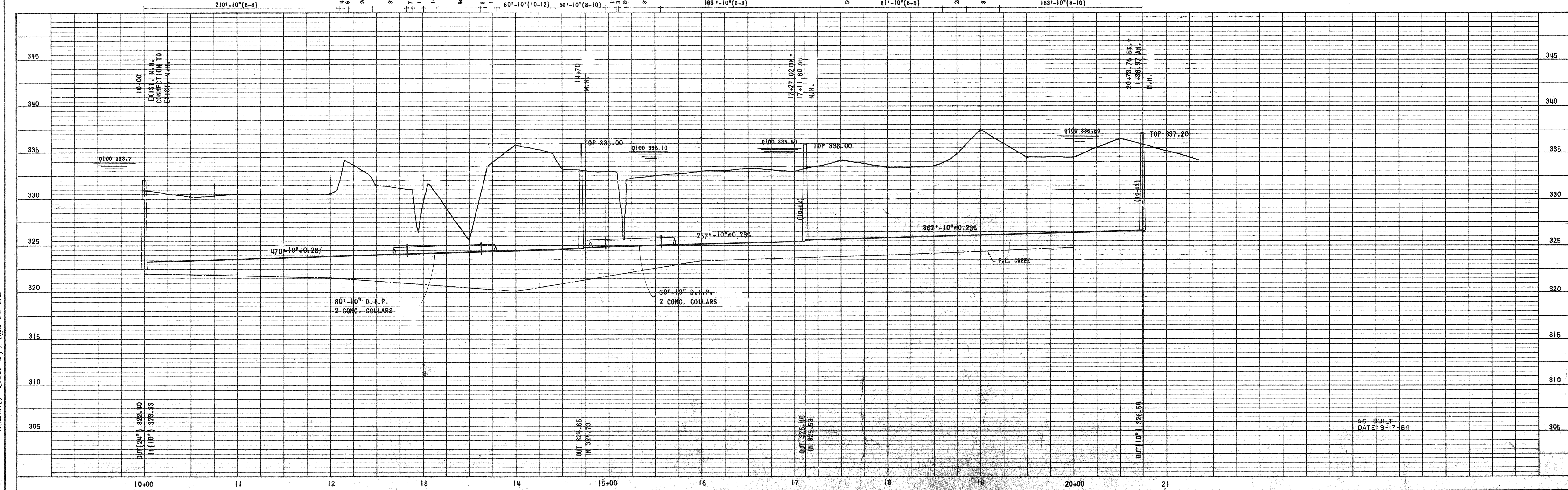
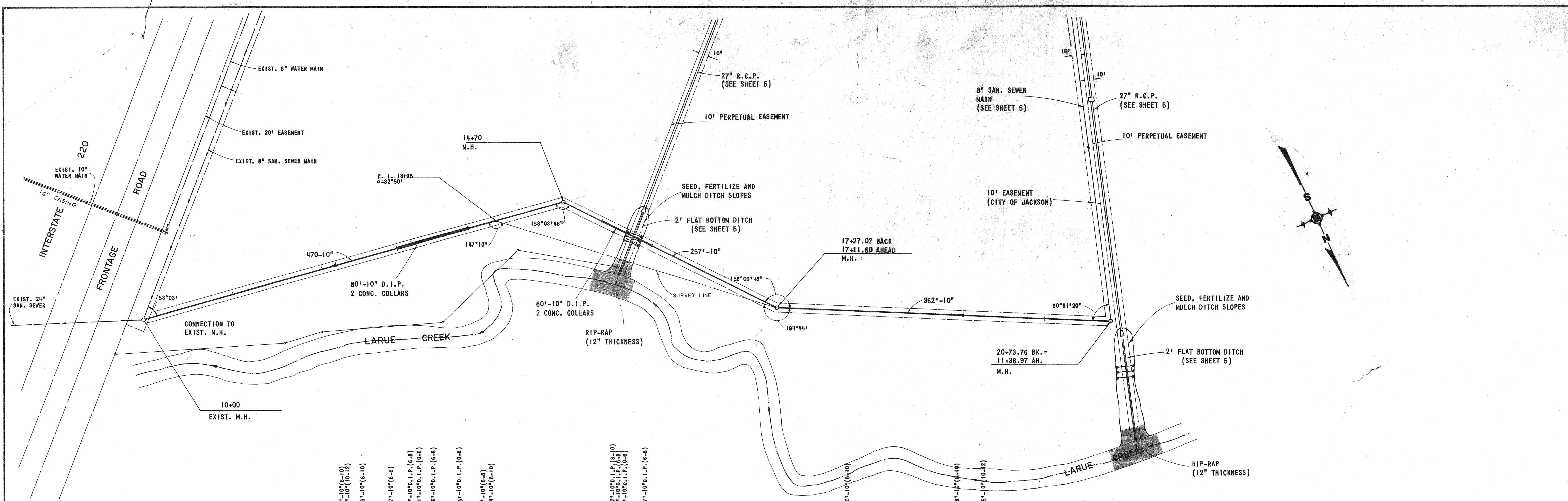
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI



**PLAN & PROFILE**  
**MARKETRIDGE DRIVE**  
**PHASE 2**  
**TIMMS PROPERTY DEVELOPMENT**

PROJECT NO.	
CONTRACT	SHEET
	<b>5</b>

DM-1612 (5)

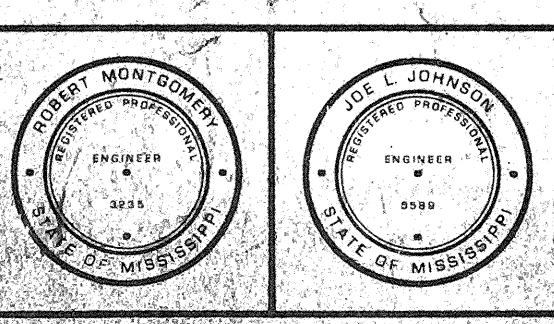


Takeover Book 8, Page 26-30

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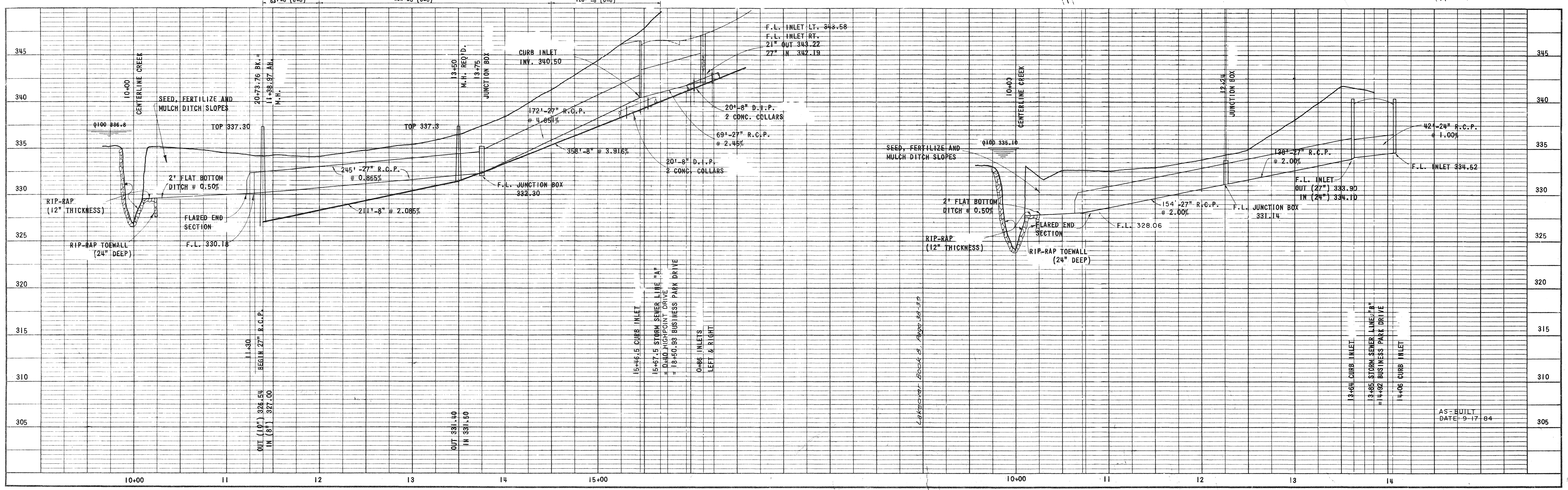
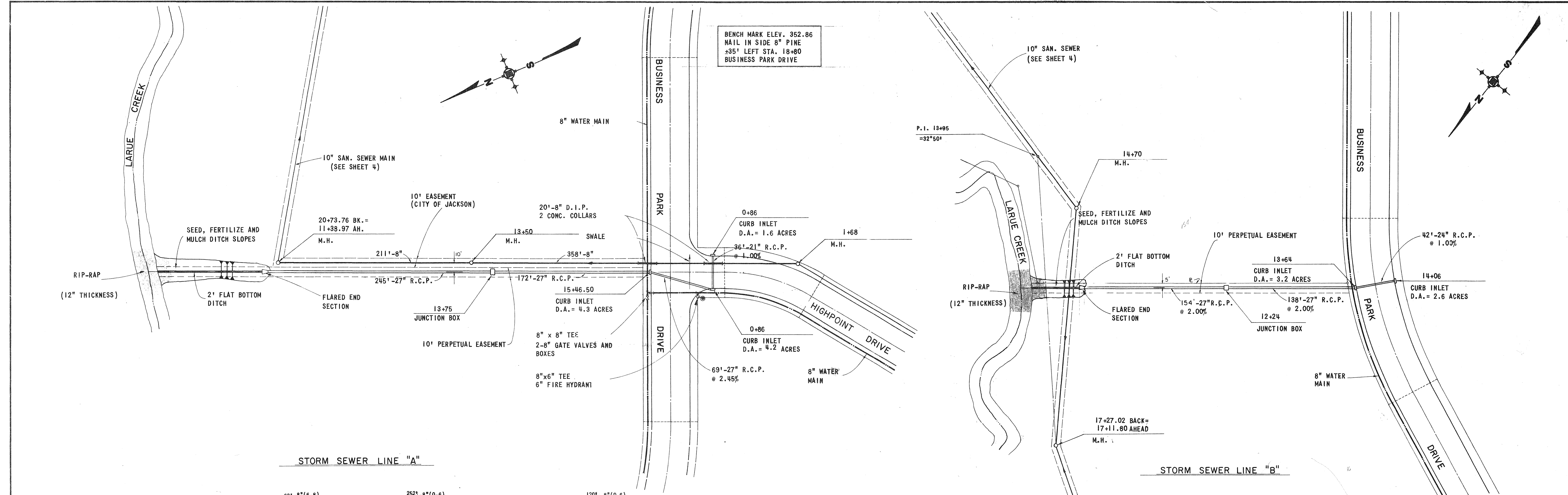
DESIGNED D.B.	DATE 4-19-82
DRAWN B.C.B.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 8124

**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



PLAN PROFILE 10" SANITARY SEWER MAIN		PROJECT NO.
PHASE 2		CONTRACT
TIMM'S PROPERTY DEVELOPMENT		SHEET 6

8-17-14 12:51



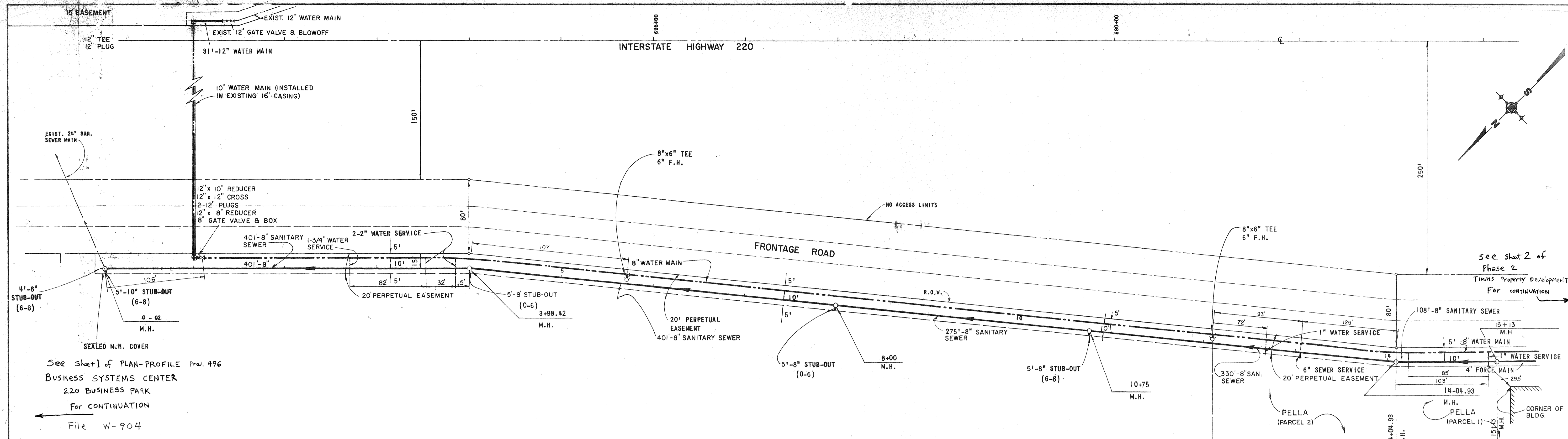
<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI				<b>PLAN PROFILE</b> <b>PHASE 2</b> <b>TIMM'S PROPERTY DEVELOPMENT</b>	PROJECT NO. CONTRACT SHEET <b>7</b>
NO. DATE REVISIONS	NATURE BY APP'D.	DESIGNED D.B. DRAWN C.C.B. CHECKED J.L.J.	DATE 4-19-82 SCALE 1" = 50' JOB NO. 8124		

Lakeover Book 8, Page 36-37

Lakeover Book 8, Page 36-37

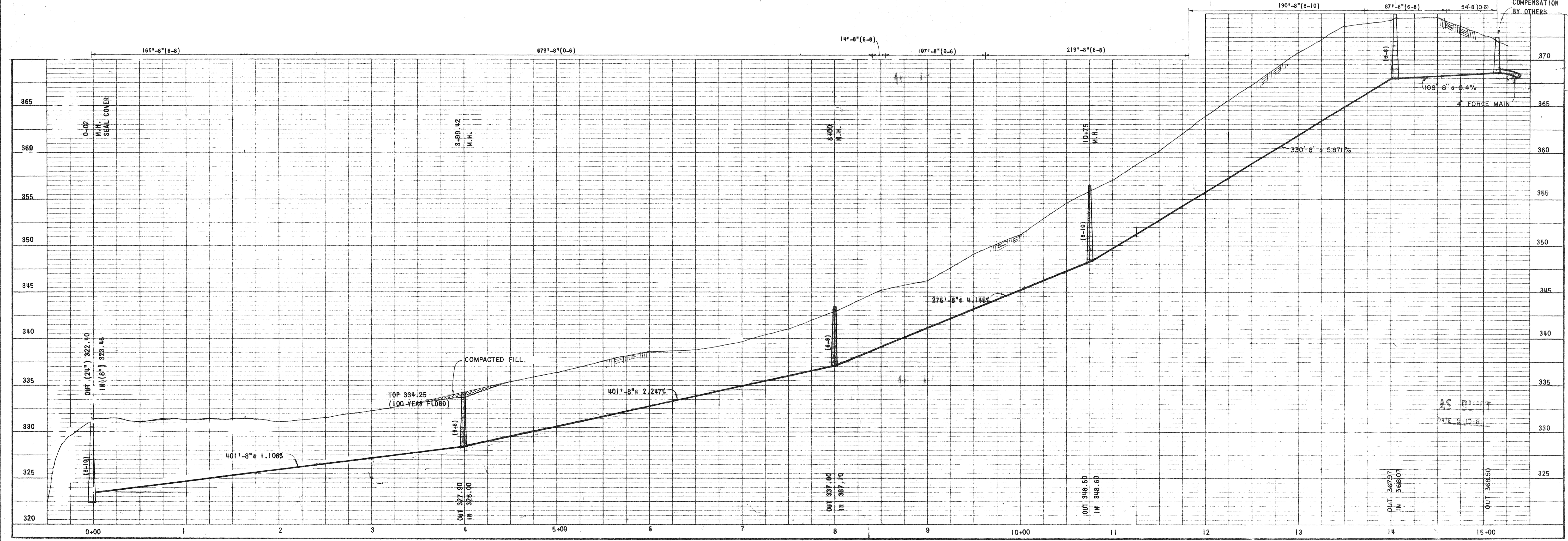
Q.M. - 10.12.15





See sheet 1 of PLAN-PROFILE Proj. 496  
 BUSINESS SYSTEMS CENTER  
 220 BUSINESS PARK  
 For CONTINUATION  
 File W-904

see sheet 2 of  
 Phase 2  
 TIMM'S PROPERTY DEVELOPMENT  
 For CONTINUATION



Sheet B, Part 1-B

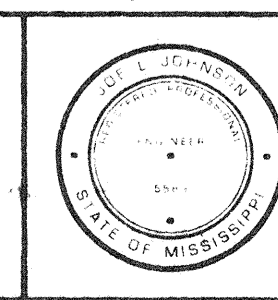
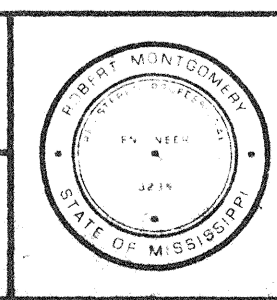
Sheet B, Part 1-B

NO.	DATE	NATURE	BY	APP'D.

DESIGNED D.B.	DATE 6-12-81
DRAWN B.C.B.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 8104



**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



**PLAN & PROFILE**  
**STA. 0-33.47 TO STA. 14+04.93**  
**TIMM'S PROPERTY**  
**SAN. SEWER & WATER IMPROVEMENTS**

PROJECT NO.	
CONTRACT	
SHEET	1

RM-1610 (5)

L&K Assoc. Inc. 11/21/86

L&K Assoc. Inc. 11/21/86

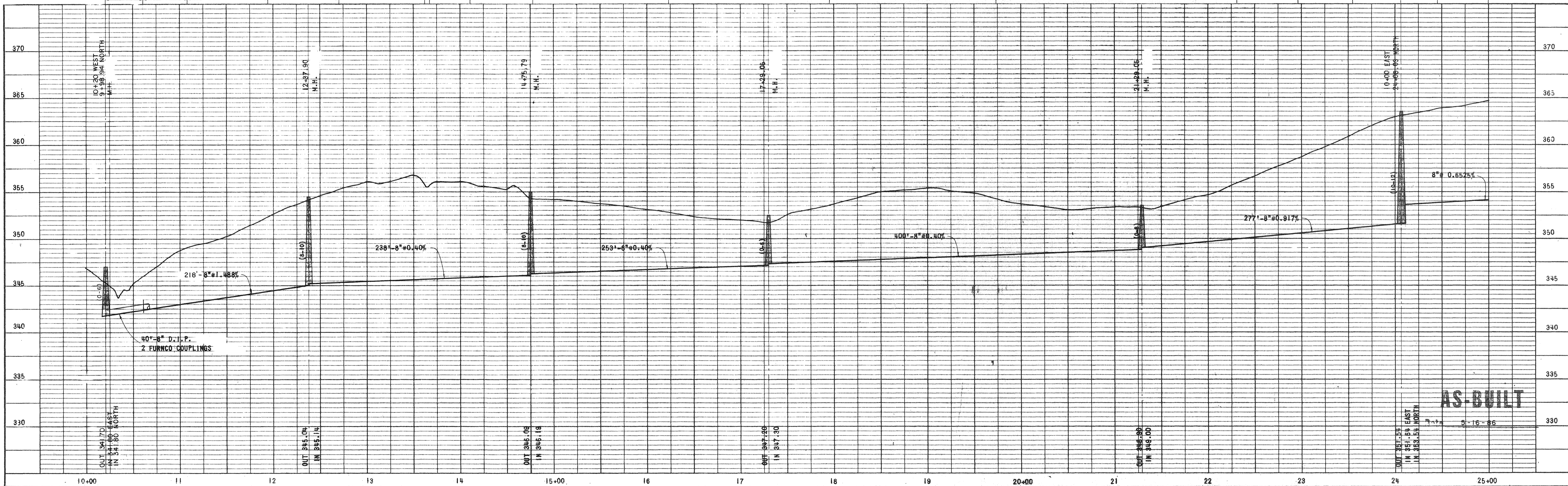
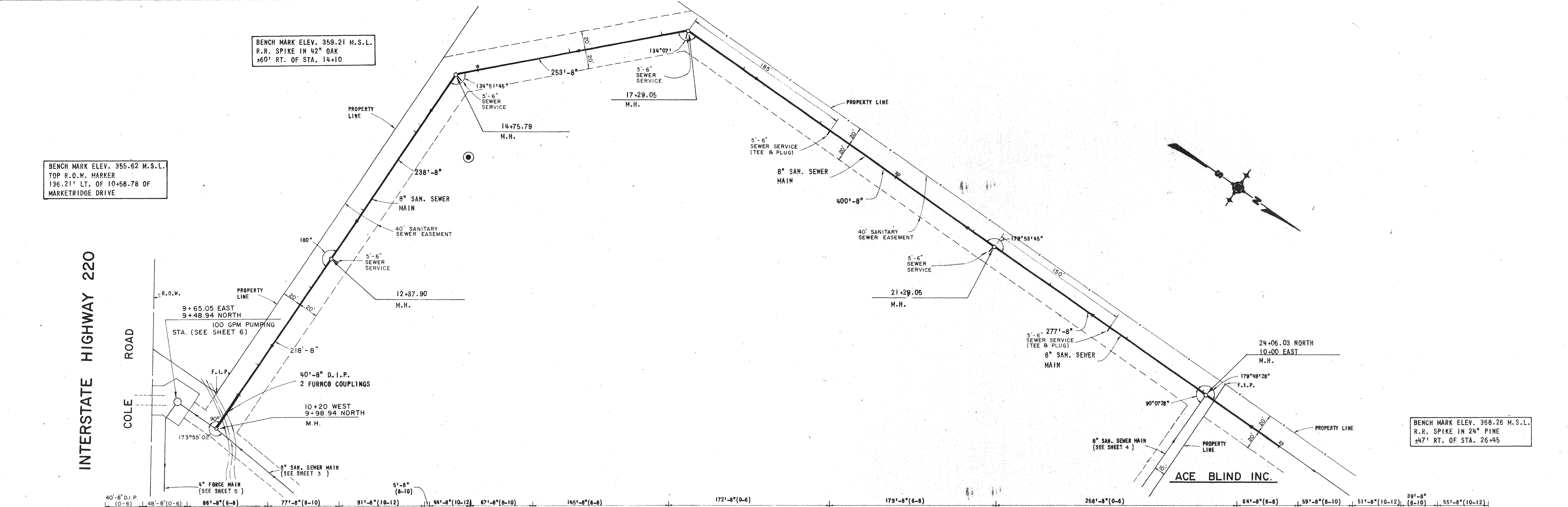
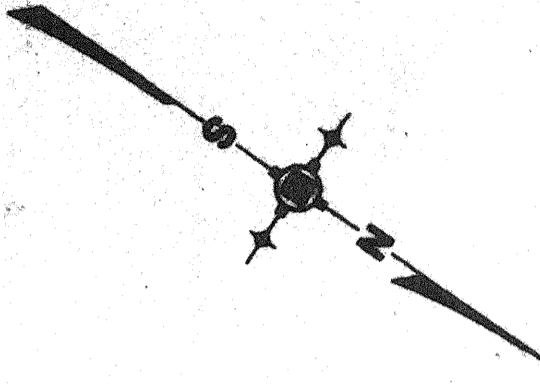
BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
136.21' LT. OF 10+58.78 OF  
MARKETTRIDGE DRIVE

BENCH MARK ELEV. 359.21 M.S.L.  
R.R. SPIKE IN 42" OAK  
±60' RT. OF STA. 14+10

BENCH MARK ELEV. 368.26 M.S.L.  
R.R. SPIKE IN 24" PINE  
±47' RT. OF STA. 26+45

INTERSTATE HIGHWAY 220

COLE ROAD



**AS-BUILT**

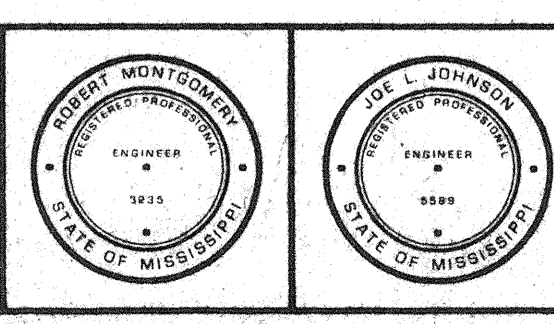
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REVISIONS				

DESIGNED	J.L.J.	DATE	1-20-86
DRAWN	M.C.	SCALE	1" = 50'
CHECKED	J.L.J.	JOB NO.	7200.9

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**

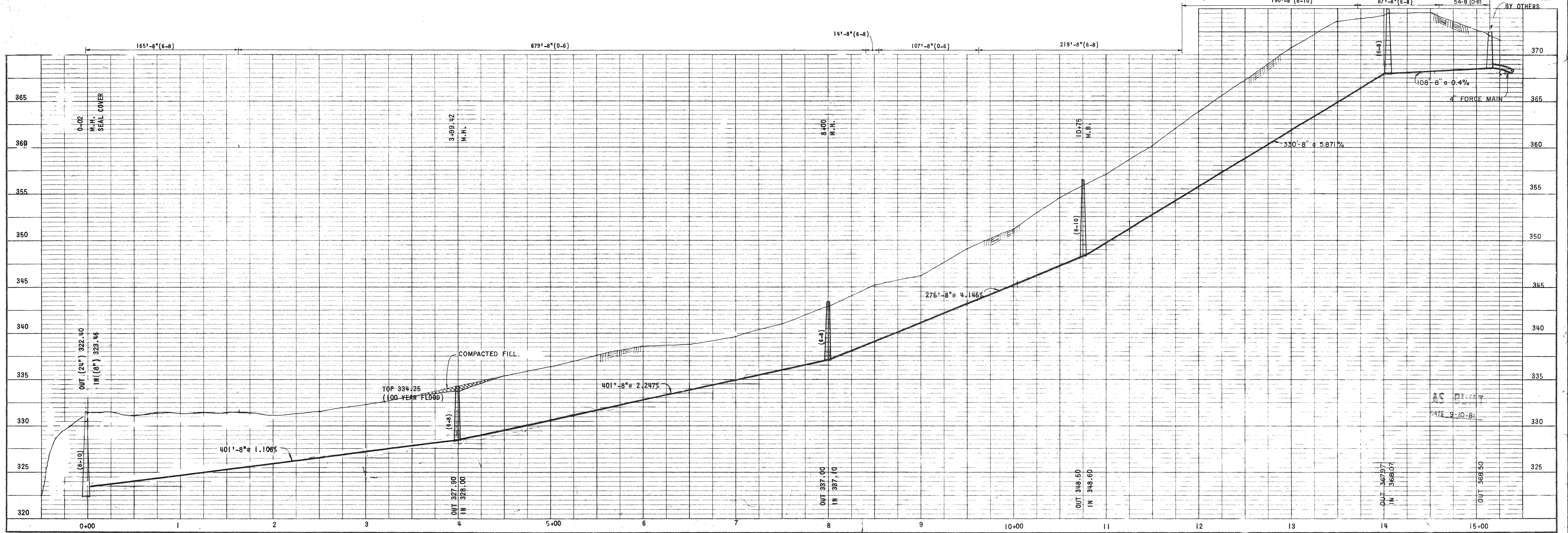
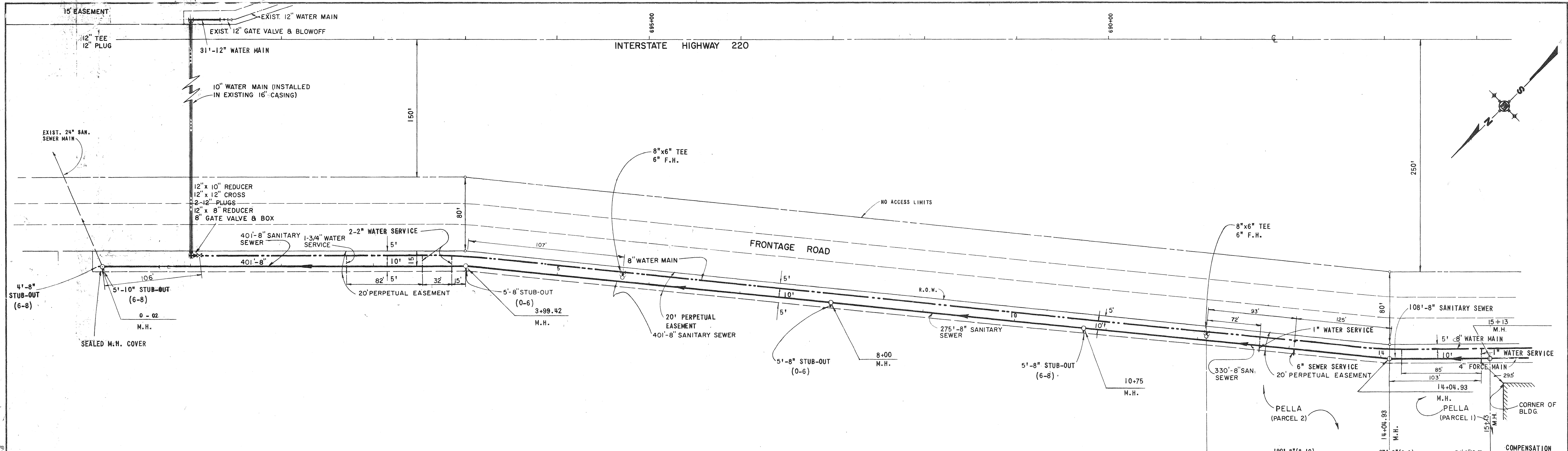
JAC / SON / PEARL, MISSISSIPPI



PLAN - PROFILE	
SANITARY SEWER EXTENSIONS 220 BUSINESS PARK	

PROJECT NO.	520
CONTRACT	
SHEET	2

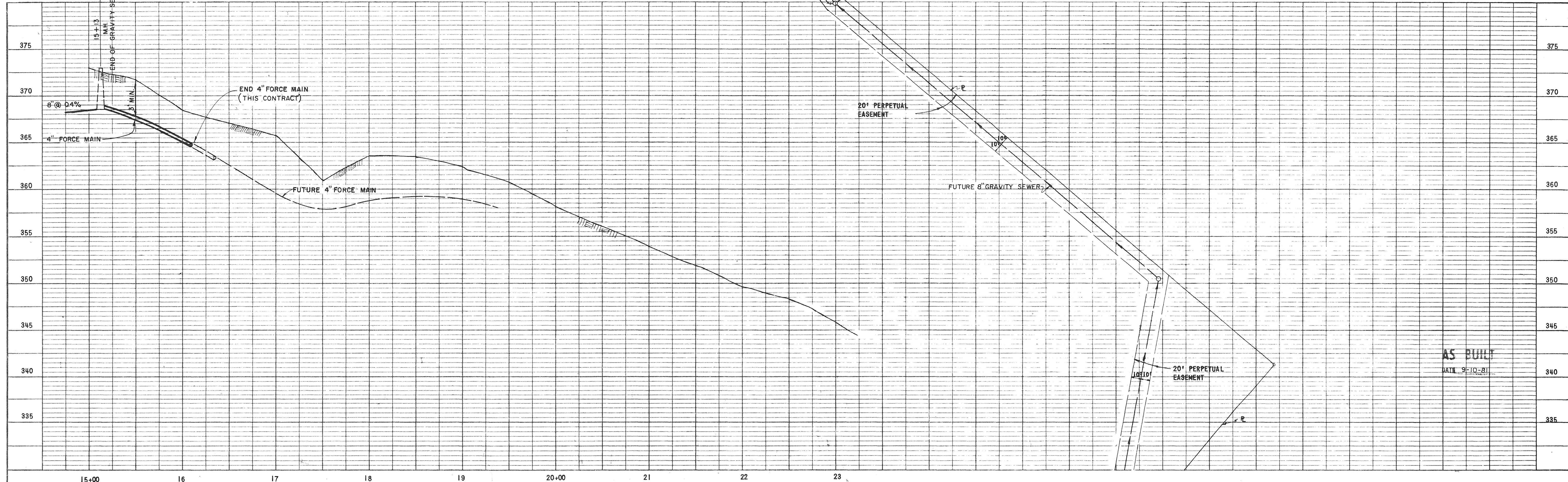
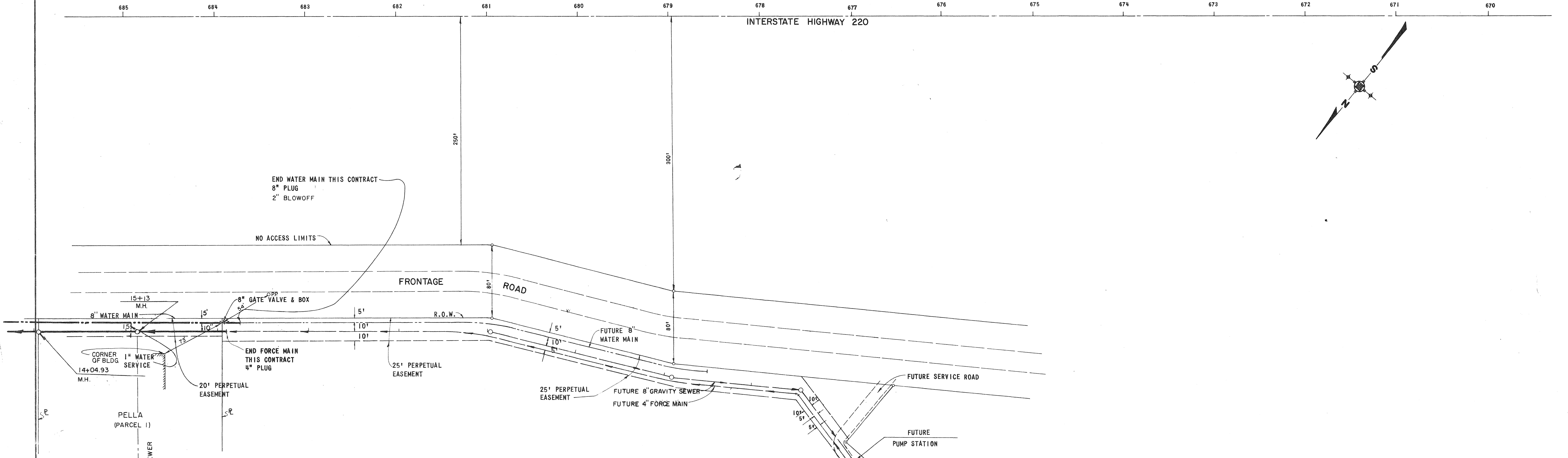
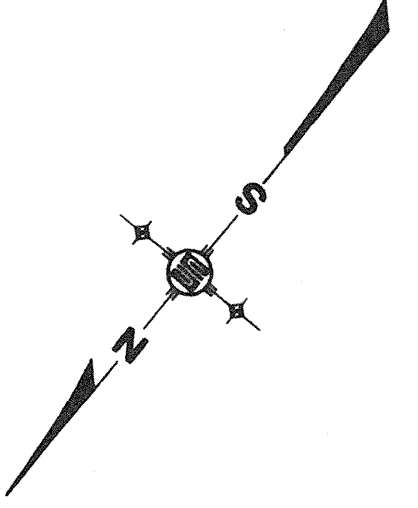
SM-1610 (5)



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		NO.	DATE	NATURE	BY	APP'D.														
<b>AS PROJECT</b> DATE 9-10-81																				

QM-1410 (5)

INTERSTATE HIGHWAY 220



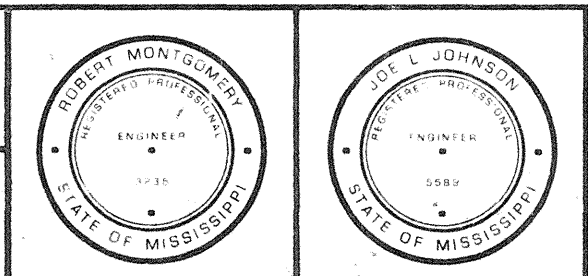
AS BUILT  
DATE 9-10-81

NO.	DATE	NATURE REVISIONS	BY	APP'D.
1	7-1-81	ADD 2" BLOWOFF	R.C.	J.L.J.

DESIGNED D.B.	DATE 6-12-81
DRAWN B.C.B.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 8104

**UNDERWOOD DEVELOPMENT COMPANY**

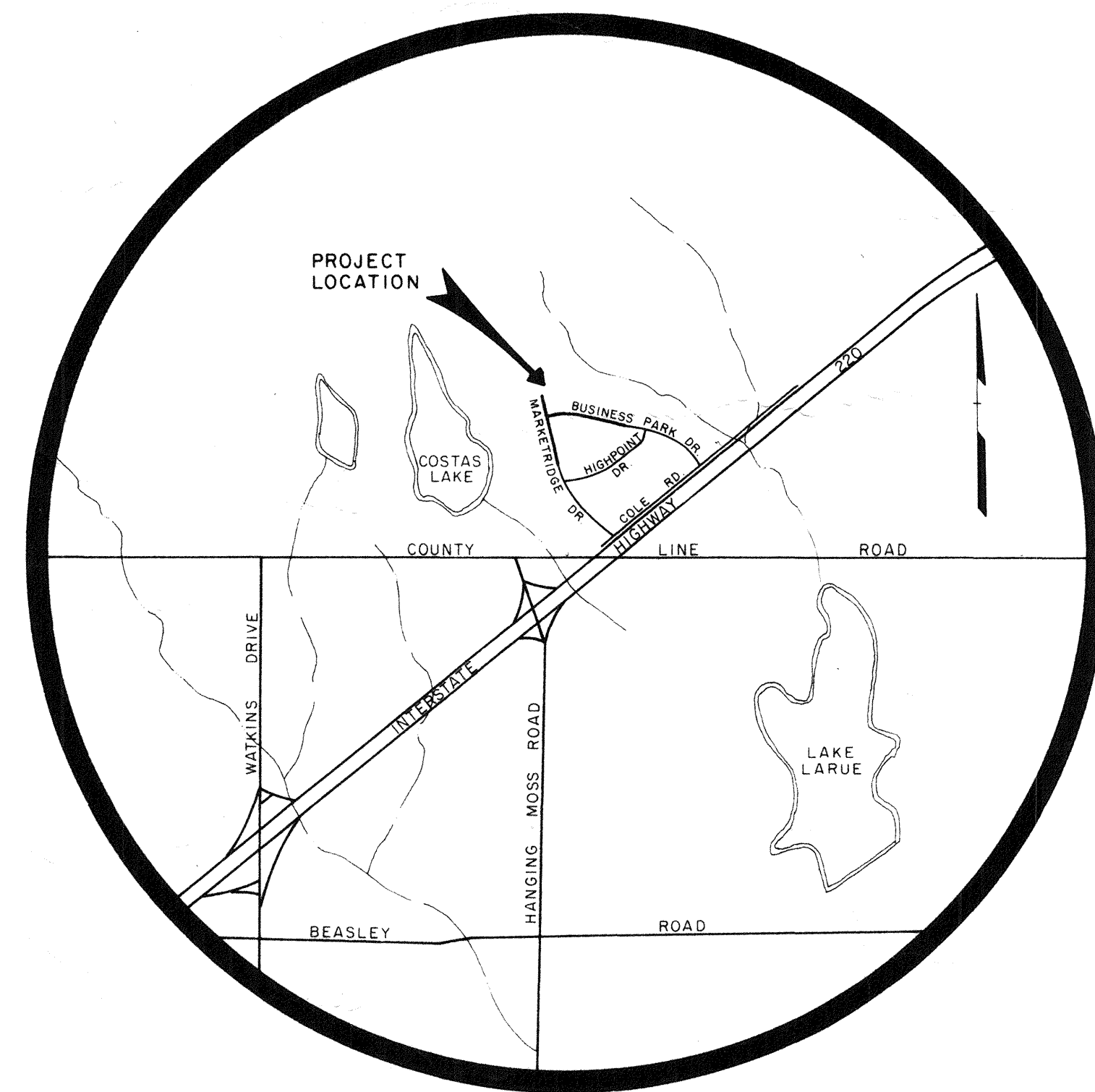
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI



PLAN & PROFILE  
FUTURE EXTENSIONS  
TIMM'S PROPERTY  
SAN. SEWER & WATER IMPROVEMENTS

PROJECT NO.	
CONTRACT	SHEET
	2

Q.M.-14.10 (5)



# 220 BUSINESS PARK OF LAKEOVER

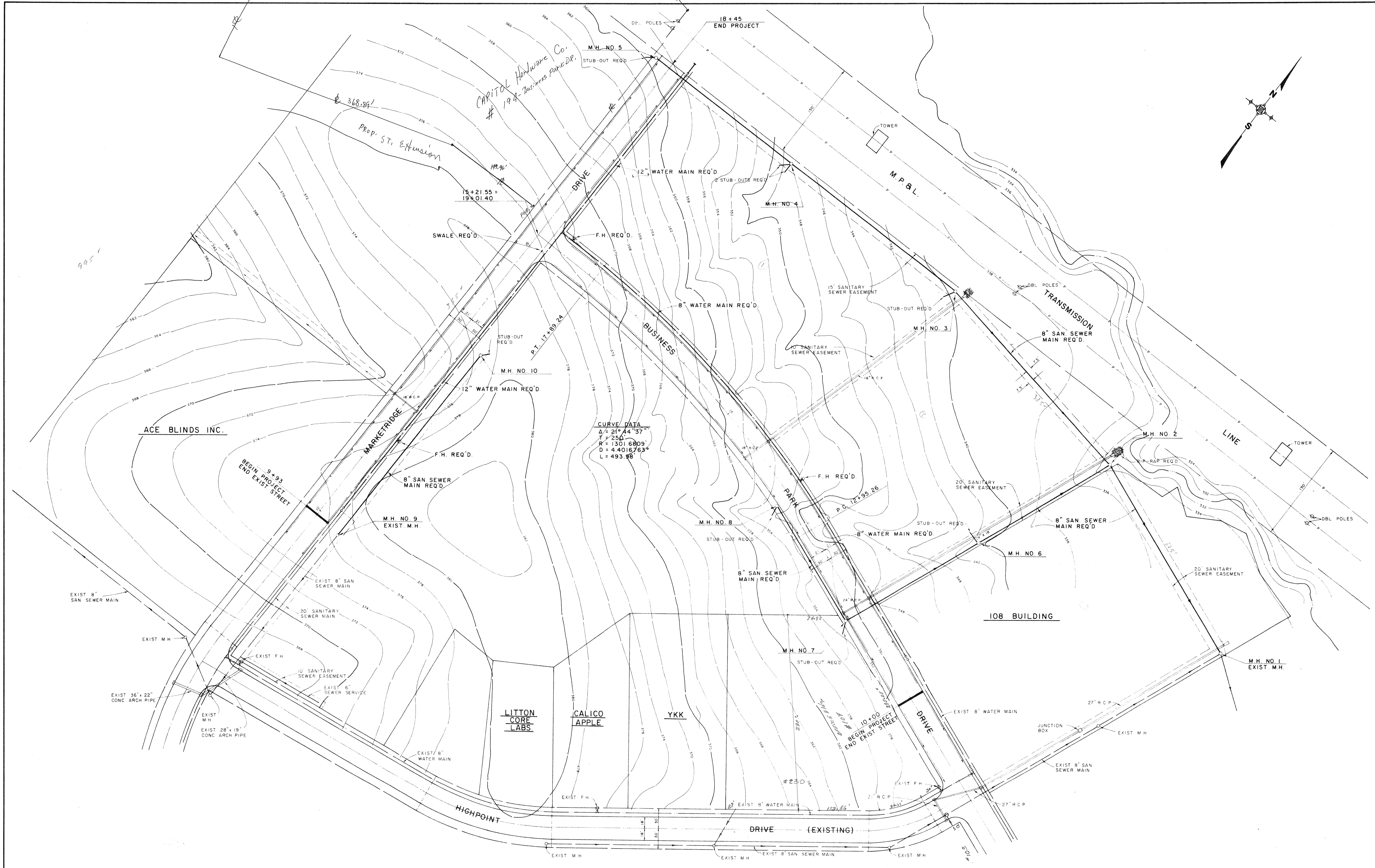
## PART 2

MADISON COUNTY, MISSISSIPPI

**APPROVED**  
 JUL 8 0 1987  
 PUBLIC WORKS  
 CITY OF JACKSON

QM

Q1614 (S)

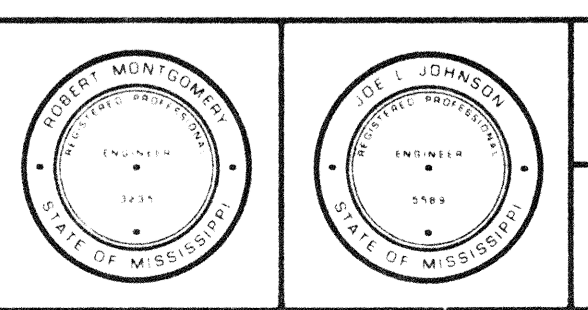


NO.	DATE	NATURE	BY	APP'D

DESIGNED J.L.J.	DATE 5-11-87
DRAWN M.C.	SCALE 1" = 60'
CHECKED J.L.J.	JOB NO. 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI

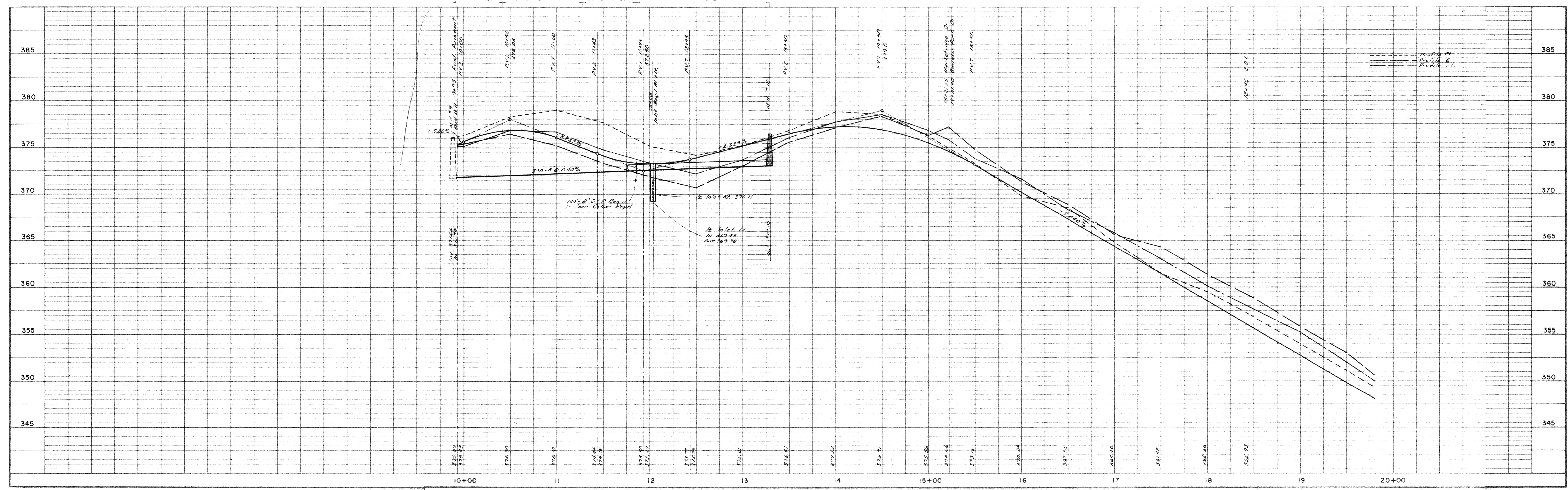
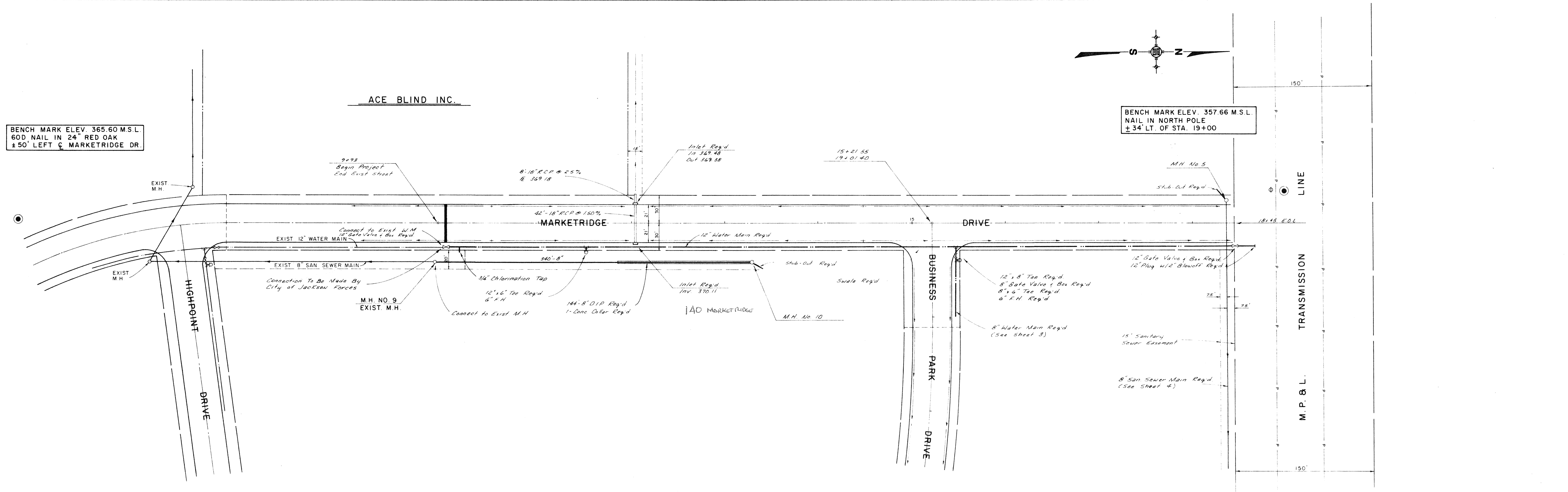


PROJECT LAYOUT	
220 BUSINESS PARK OF LAKEOVER PART 2	

PROJECT NO <b>544</b>
CONTRACT SHEET <b>1</b>

01614 CSI

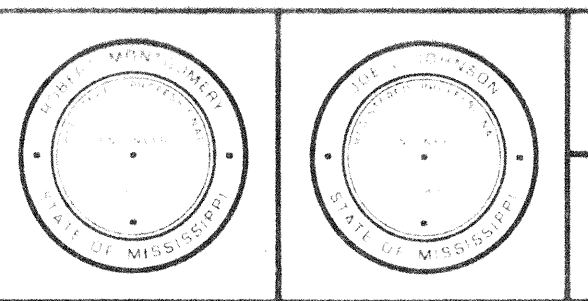
Lakeover Book 12, Page 11



NO	DATE	NATURE	BY	APP'D.
REVISIONS				

DESIGNED J. L. J.	DATE 4-23-87
DRAWN M. C.	SCALE 1" = 50'
CHECKED J. L. J.	JOB NO 72009

**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



PLAN PROFILE  
 MARKETRIDGE DRIVE  
 PART 2

PROJECT NO. <b>544</b>
CONTRACT SHEET <b>2</b>

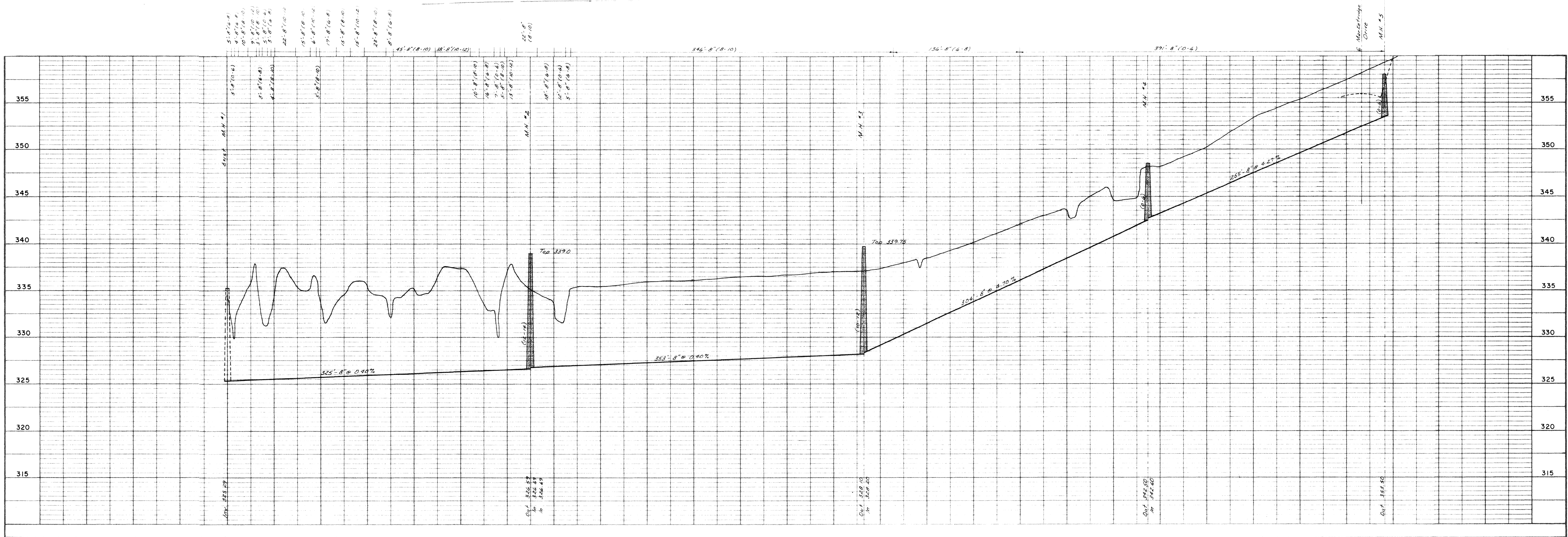
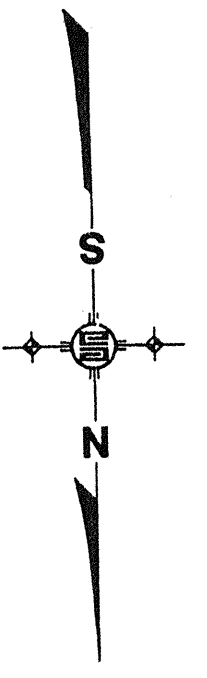
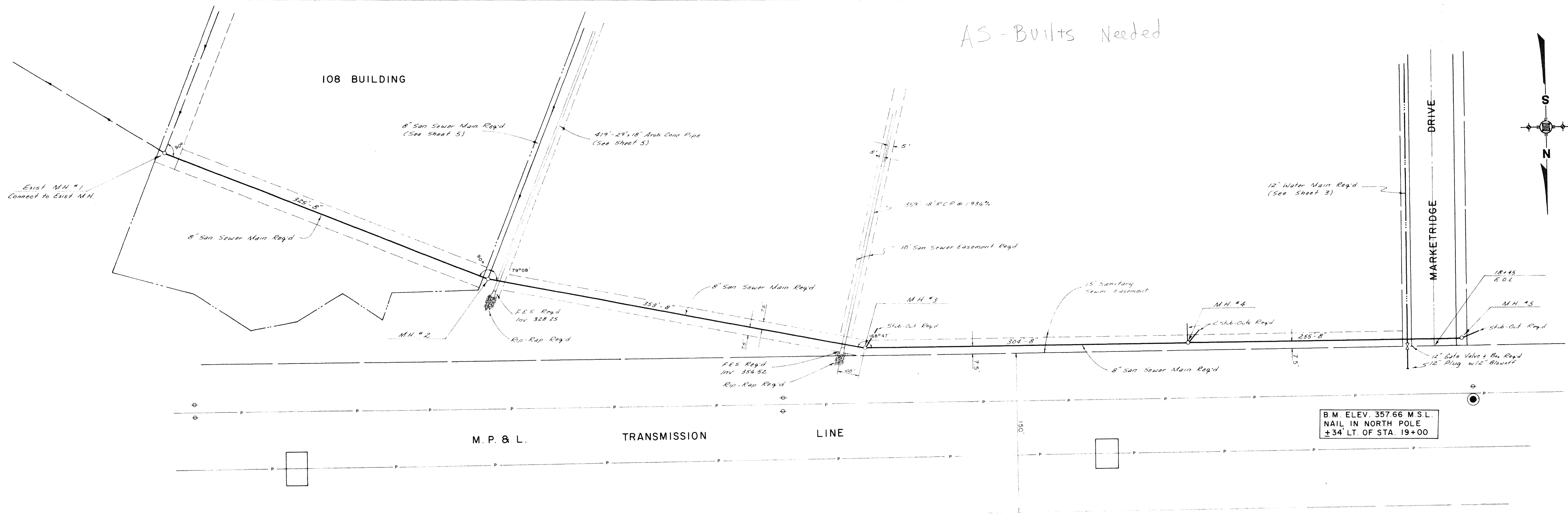
Q 16 14 (5)





Lakeover, Book 13, Page 47  
Lakeover, Book 13, Page 48-49

Lakeover, Book 13, Page 48-49, (48-50)

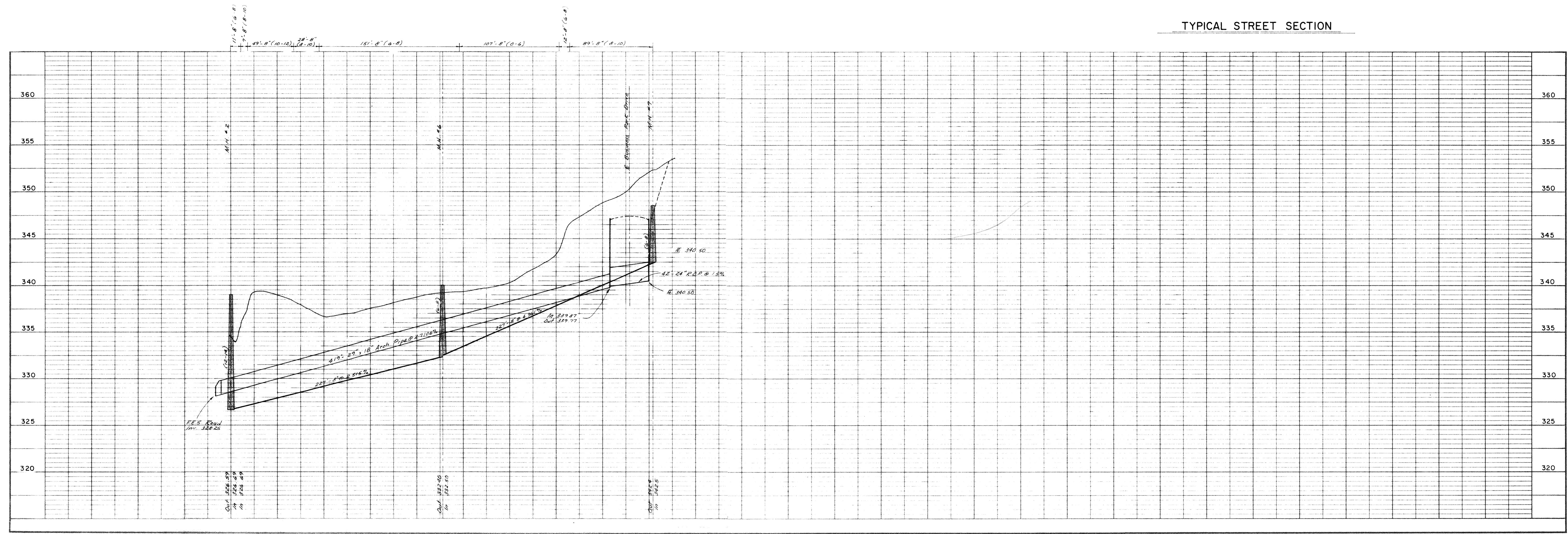
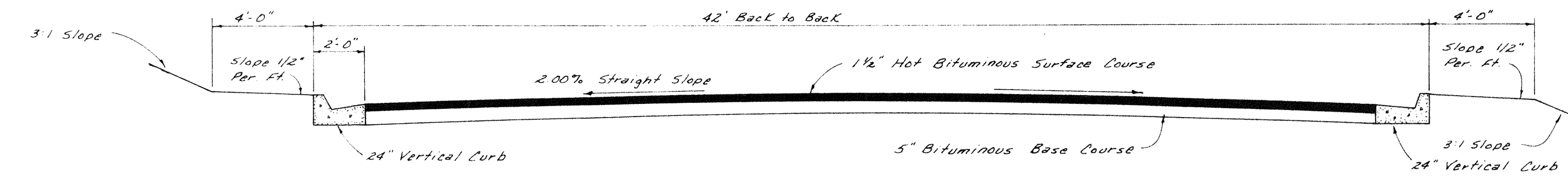
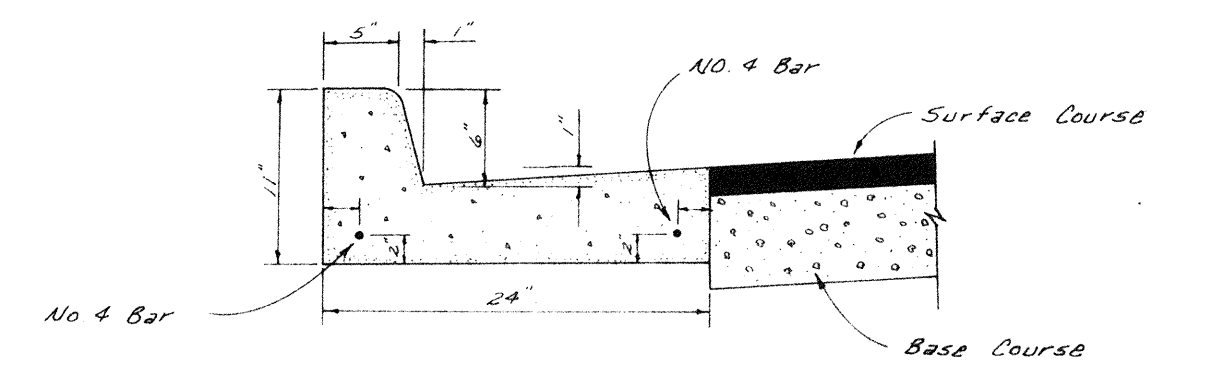
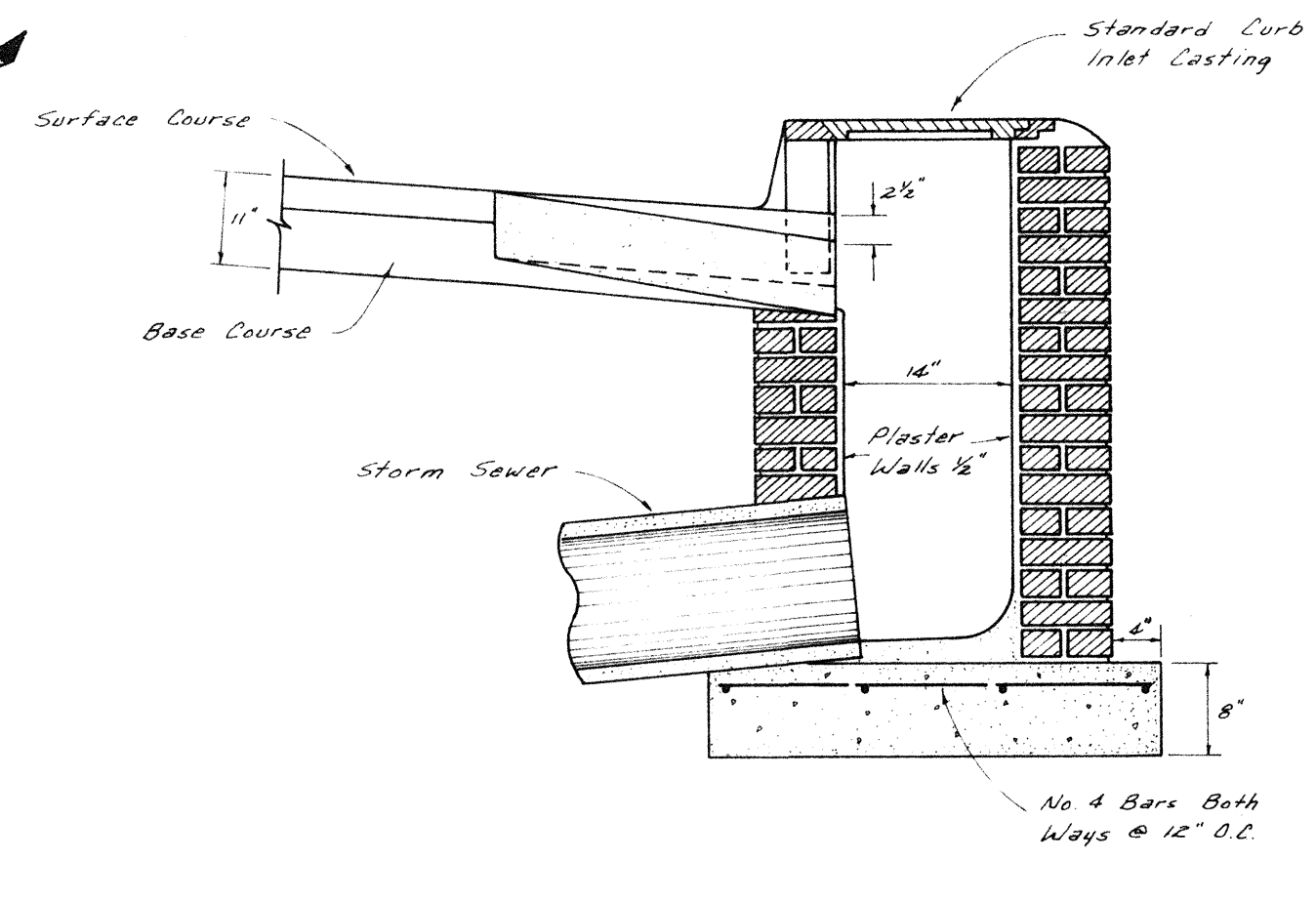
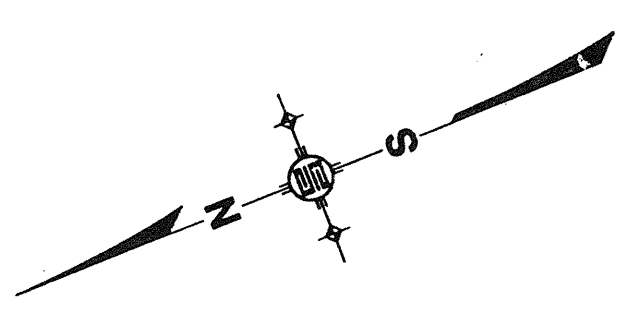
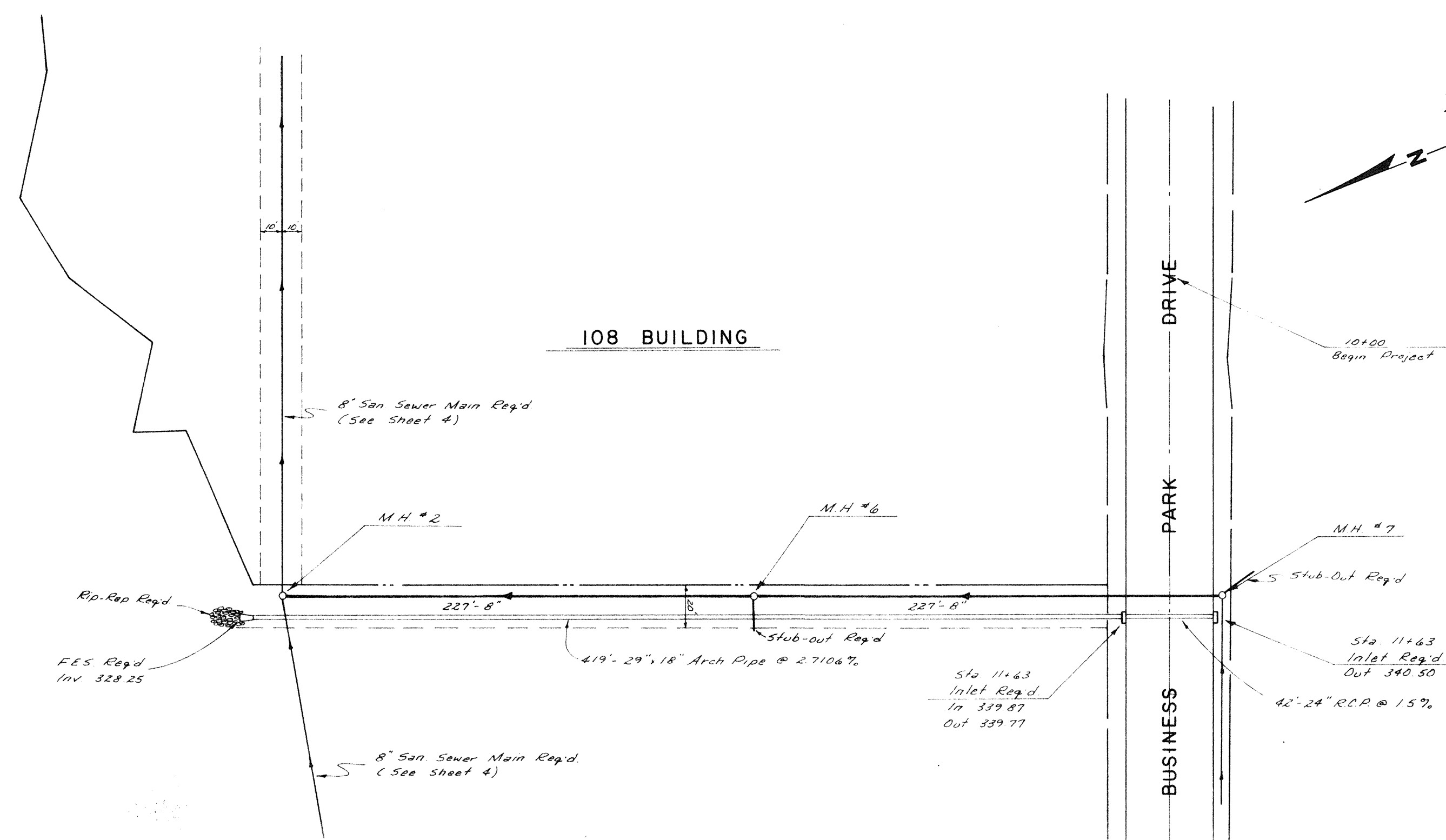


DESIGNED J.L.J.		DATE 6-18-87								PROJECT NO. 544	
DRAWN M.C.		SCALE 1" = 50'								CONTRACT	
NO.		DATE		NATURE OF REVISIONS		BY		APP'D		CHECKED J.L.J.	
										JOB NO. 7200.9	
<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI											
<b>PLAN PROFILE</b> <b>SANITARY SEWER MAIN</b> <b>PART 2</b>										220 BUSINESS PARK OF LAKEOVER JACKSON, MISSISSIPPI	

9/16/14 (5)

Letover Book 12, Page 38-40

Letover Book 13, Page 14-22

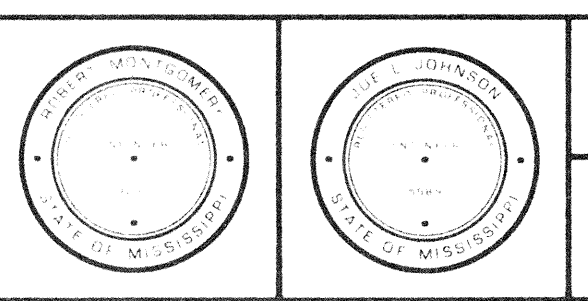


NO.	DATE	NATURE	BY	APP'D.

DESIGNED J.L.J.	DATE 6-18-87
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI

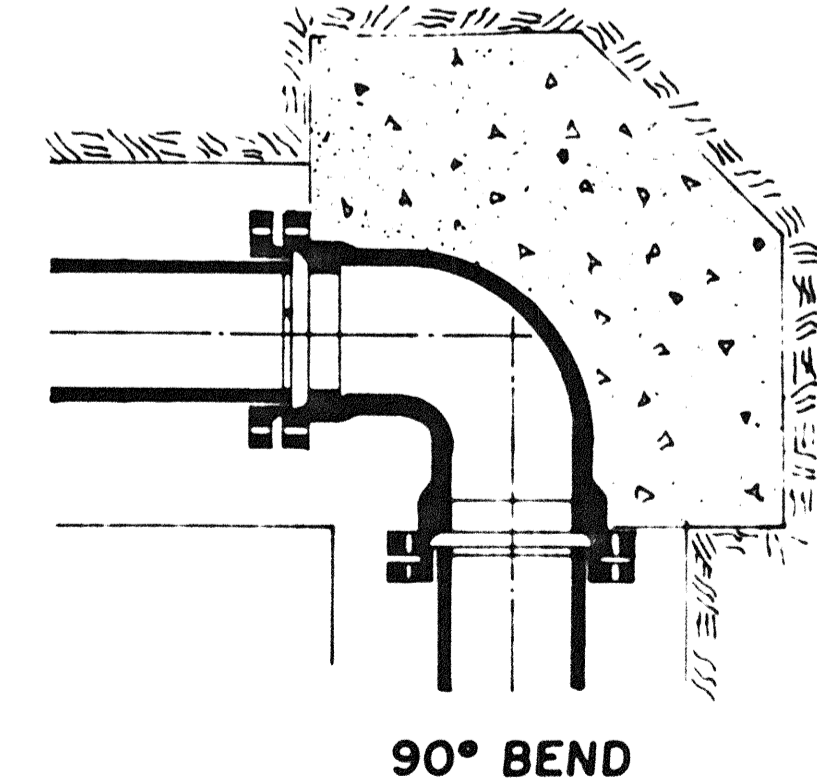
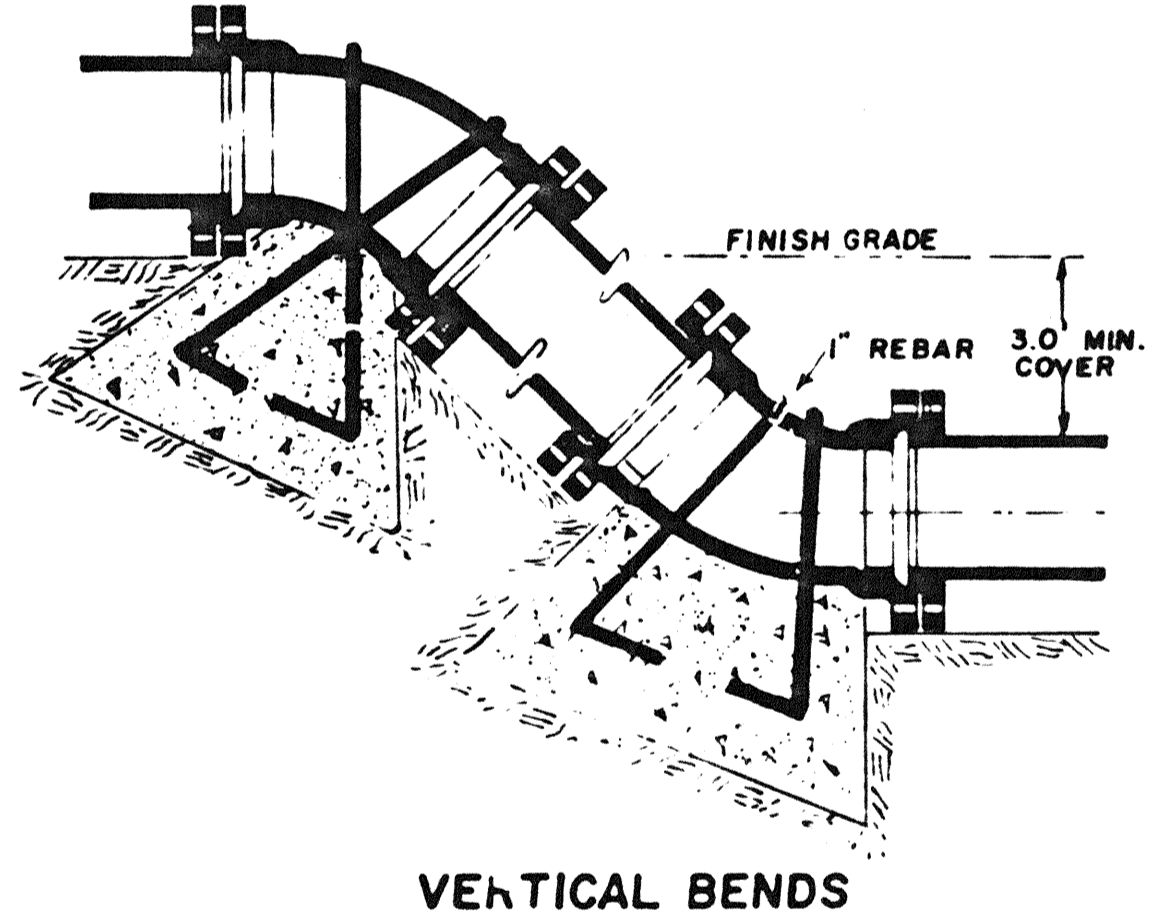
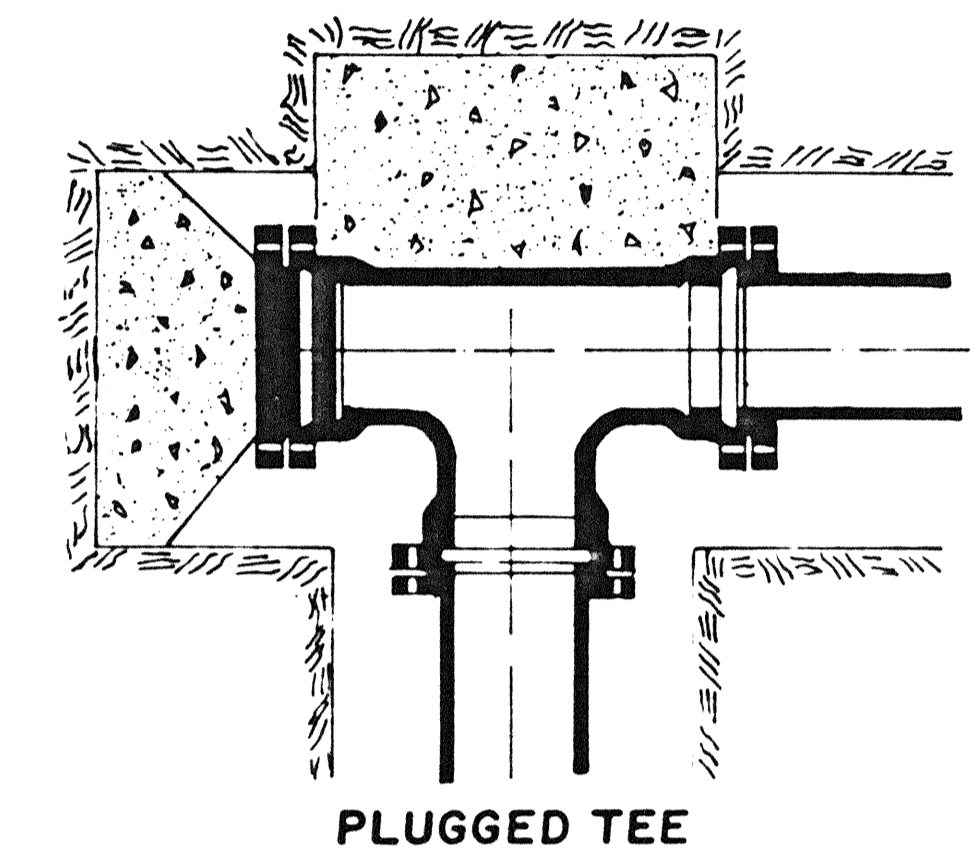
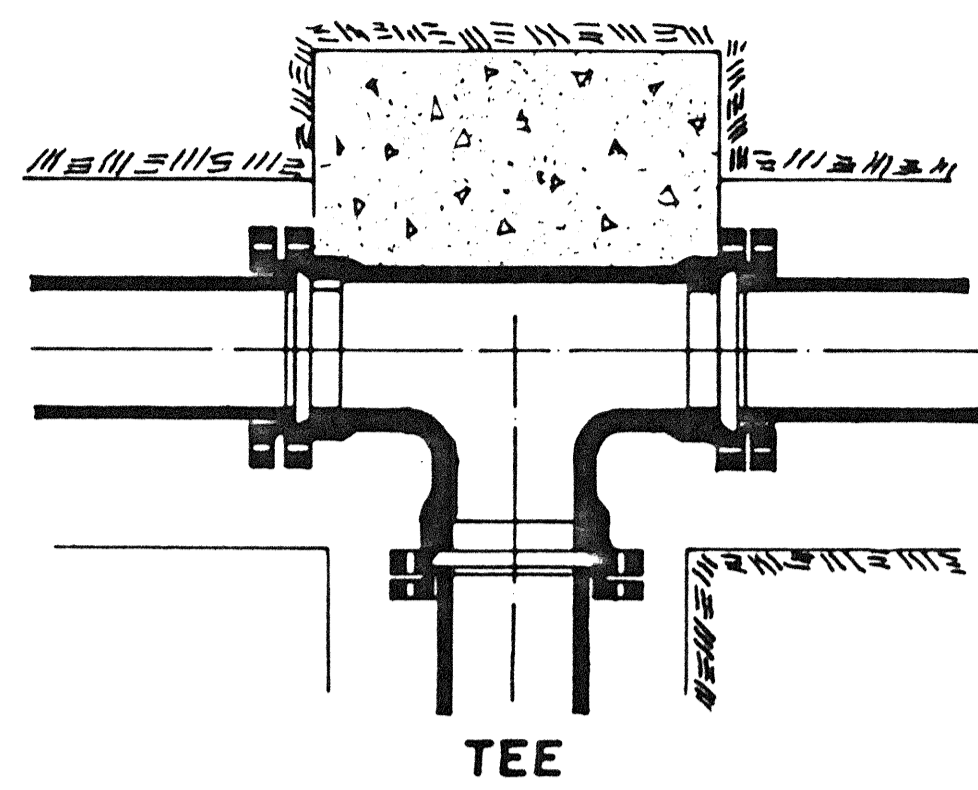


**PLAN PROFILE  
SANITARY SEWER MAIN  
PART 2**

PROJECT NO. <b>544</b>
CONTRACT SHEET <b>5</b>

Q 16 14 (5)

**TYPICAL BLOCKING ON WATER MAINS**



BEARING AREA IN SQ. FT.

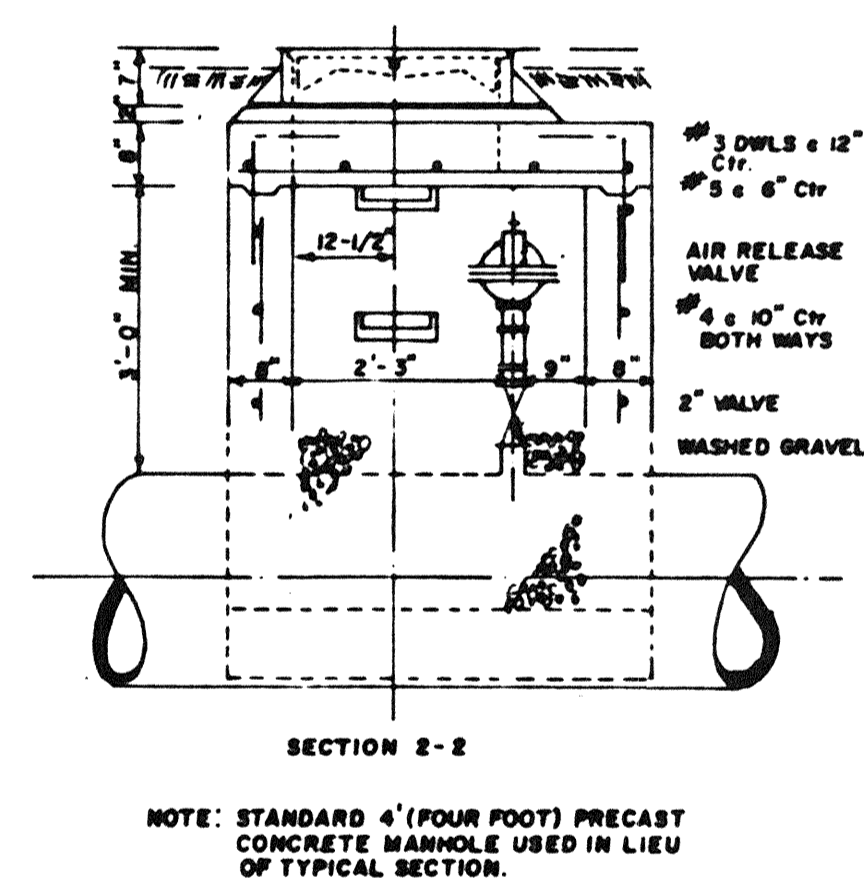
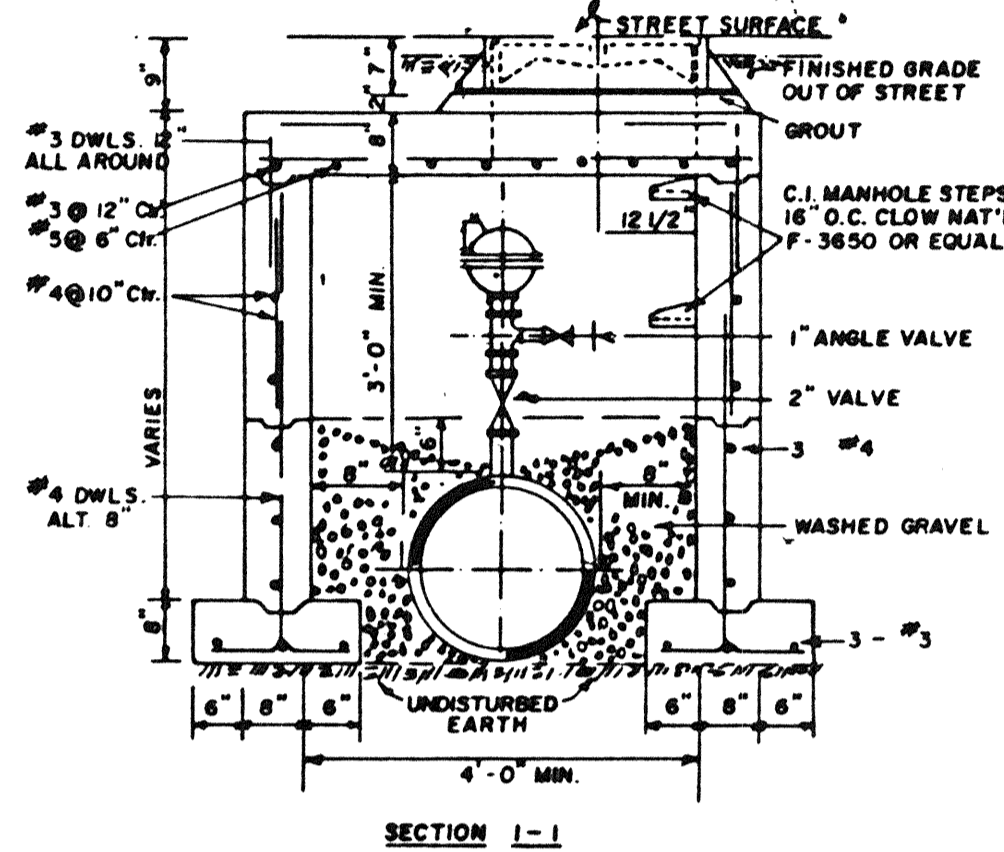
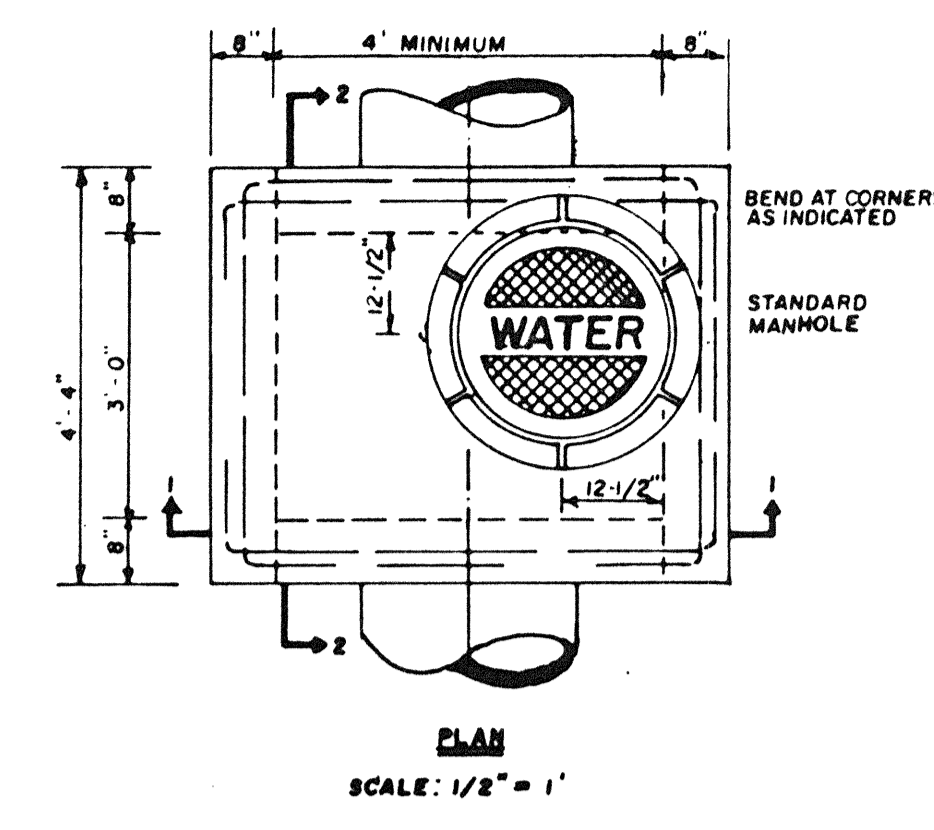
NOMINAL PIPE DIAMETER (IN.)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	6.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0

VERTICAL BENDS

NOMINAL PIPE DIAMETER (IN.)	4	6	8	12	16
4	6.0(22)	4.0(15)	4.0(15)		
6	14.0(52)	6.0(22)	4.0(15)		
8	27.0(1.0)	9.0(33)	6.0(22)		
12	68.0(2.5)	22.0(80)	9.0(33)		
16	90.0(3.3)	52.0(1.9)	18.0(67)		

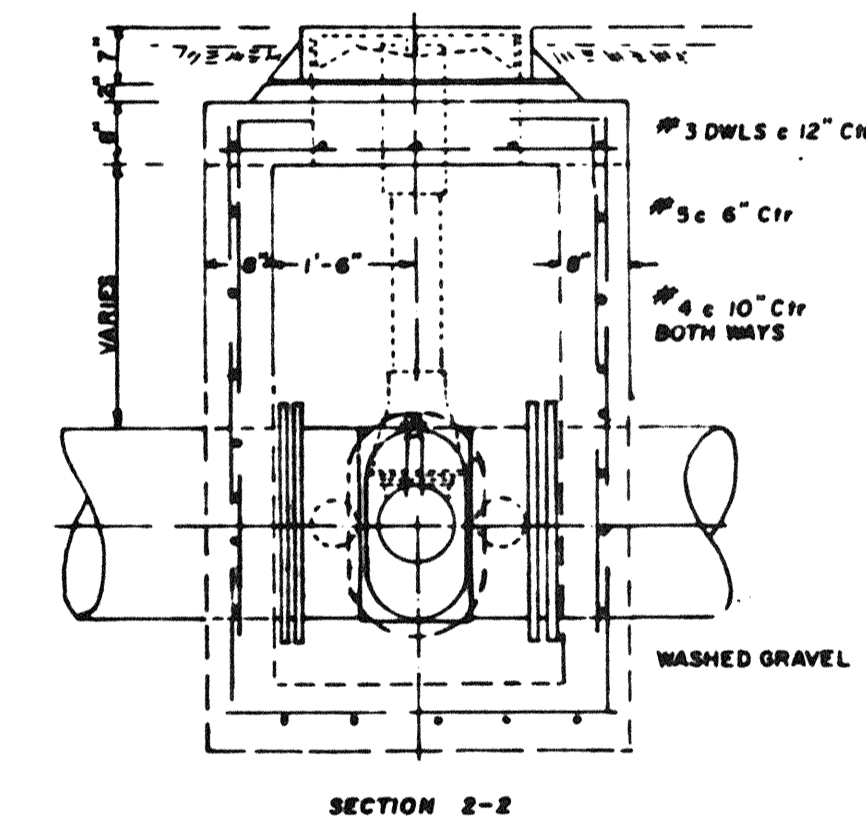
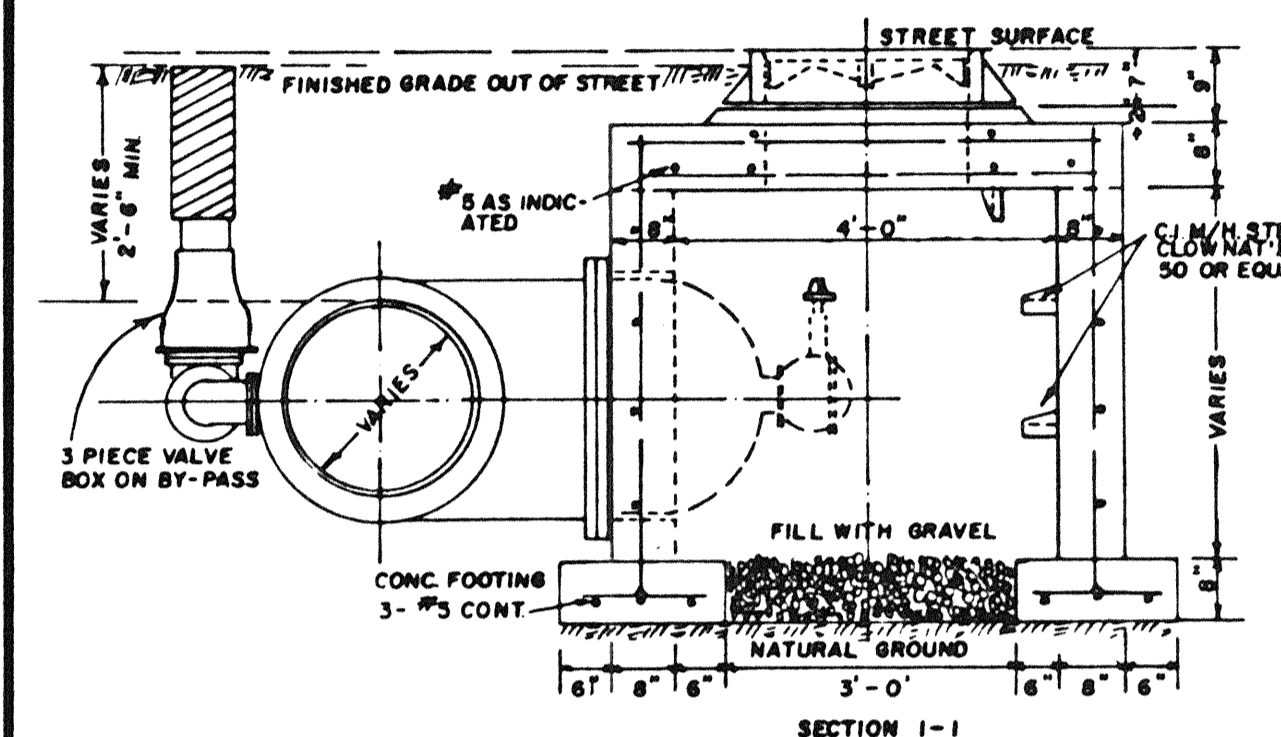
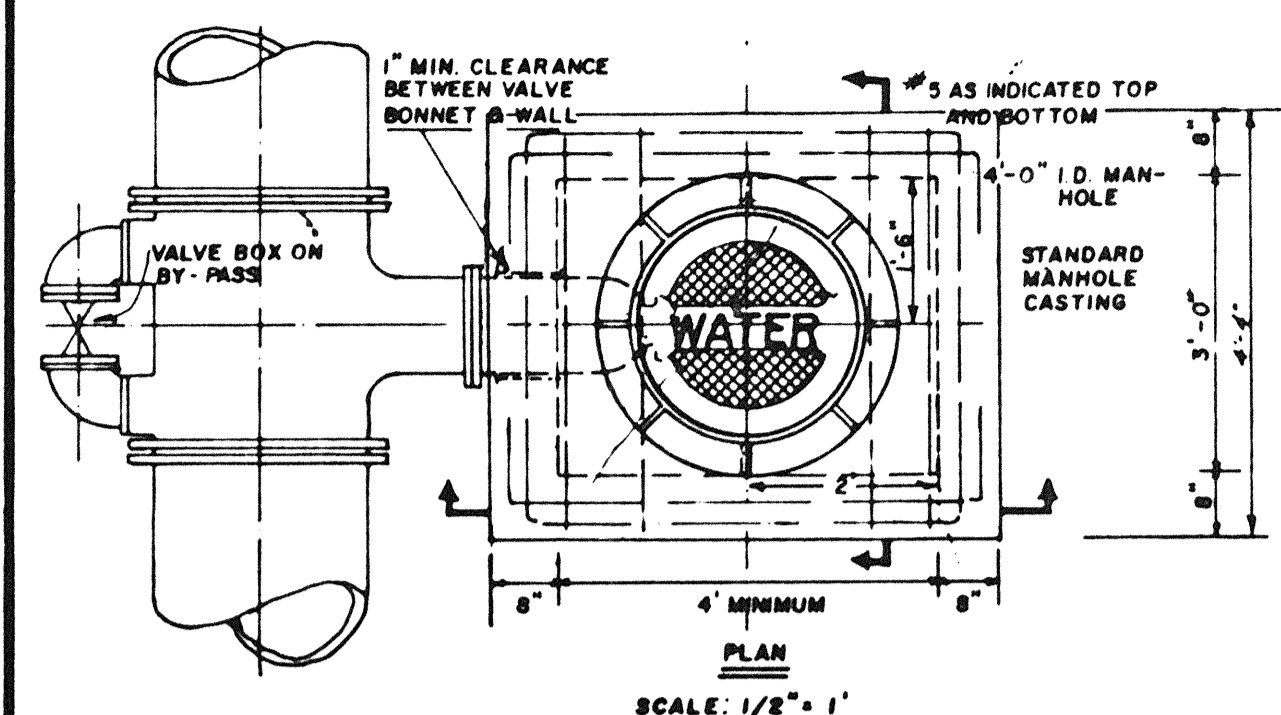
Volume of blocks including soil load CU.FT (CU. YDS.)

**TYPE-1 TYPICAL AIR RELEASE VALVE AND MANHOLE**



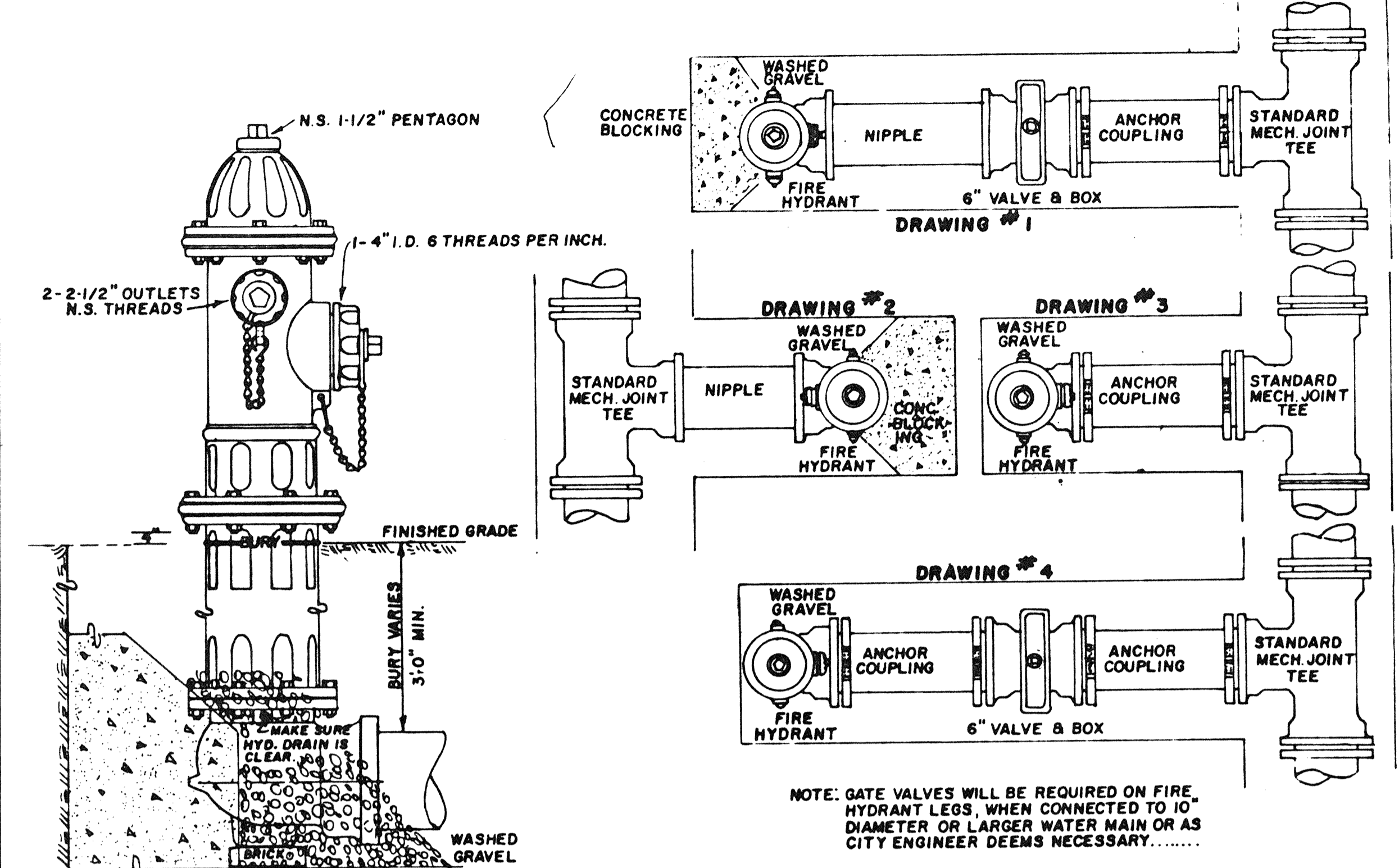
NOTE: STANDARD 4' (FOUR FOOT) PRECAST CONCRETE MANHOLE USED IN LIEU OF TYPICAL SECTION.

**TYPICAL VALVE MANHOLE**

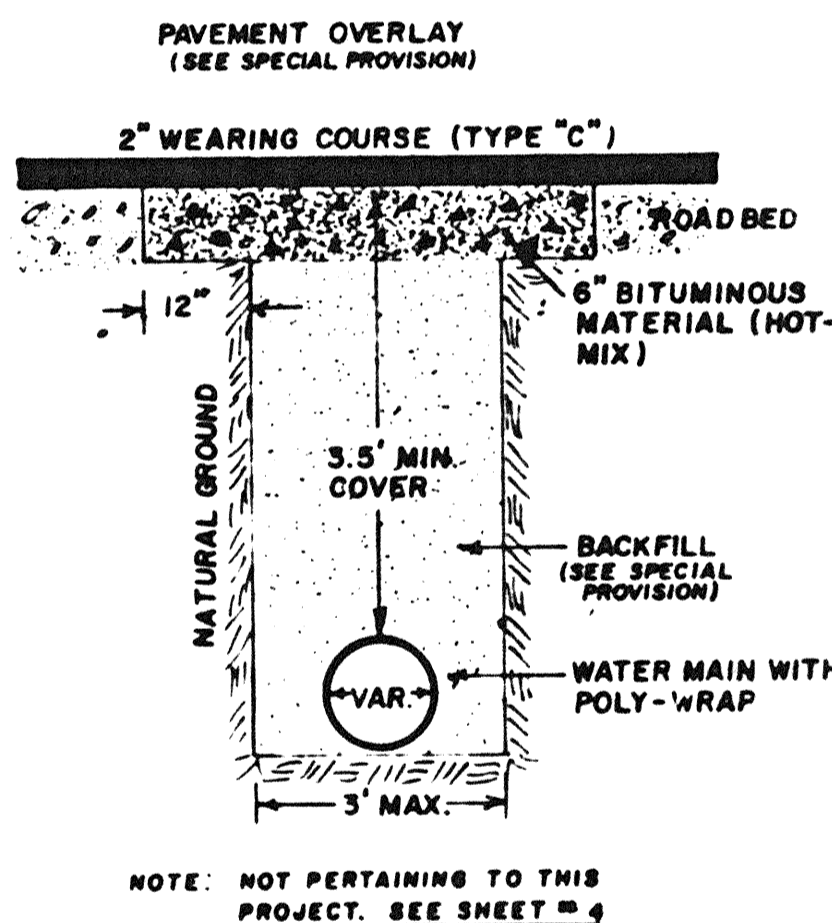
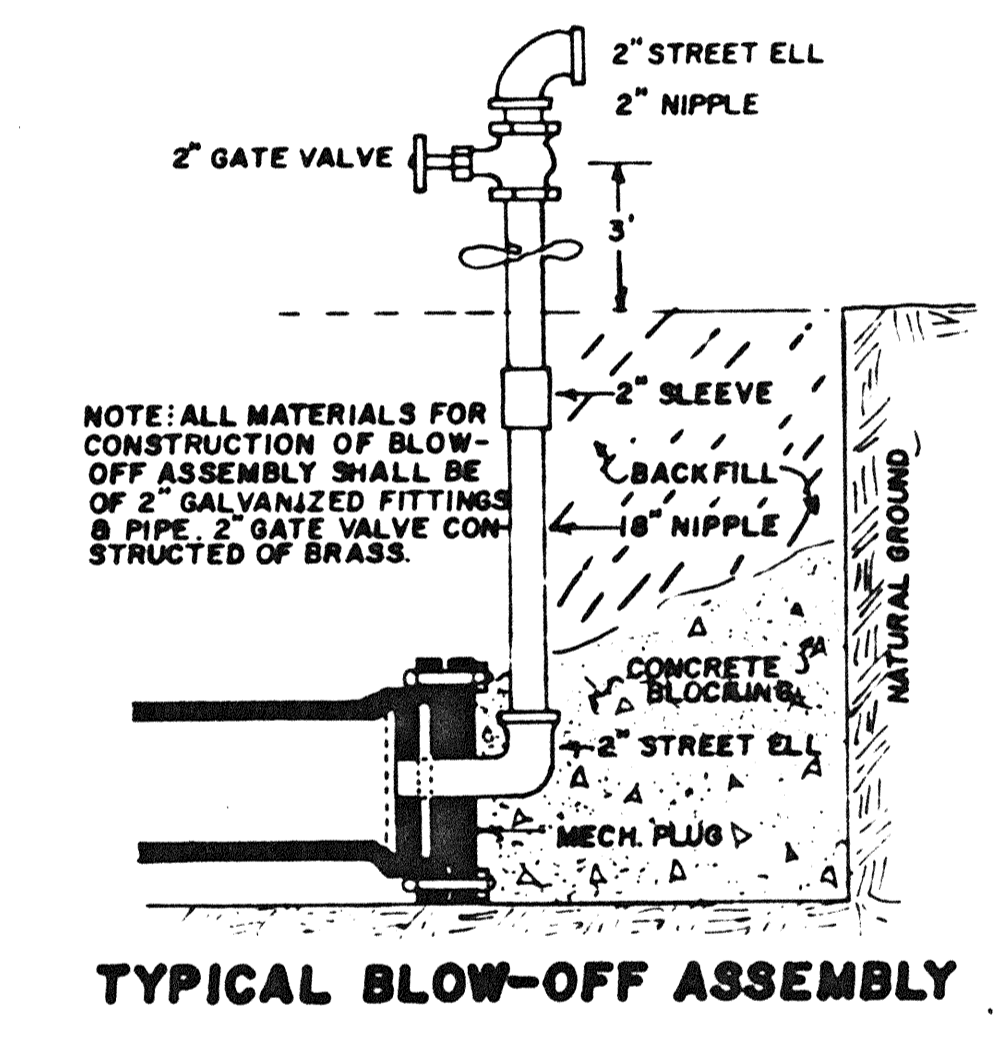


NOTE: STANDARD 4' (FOUR FOOT) PRECAST CONCRETE MANHOLE USED IN LIEU OF TYPICAL SECTION, MODIFIED FOR VALVE BONNET.

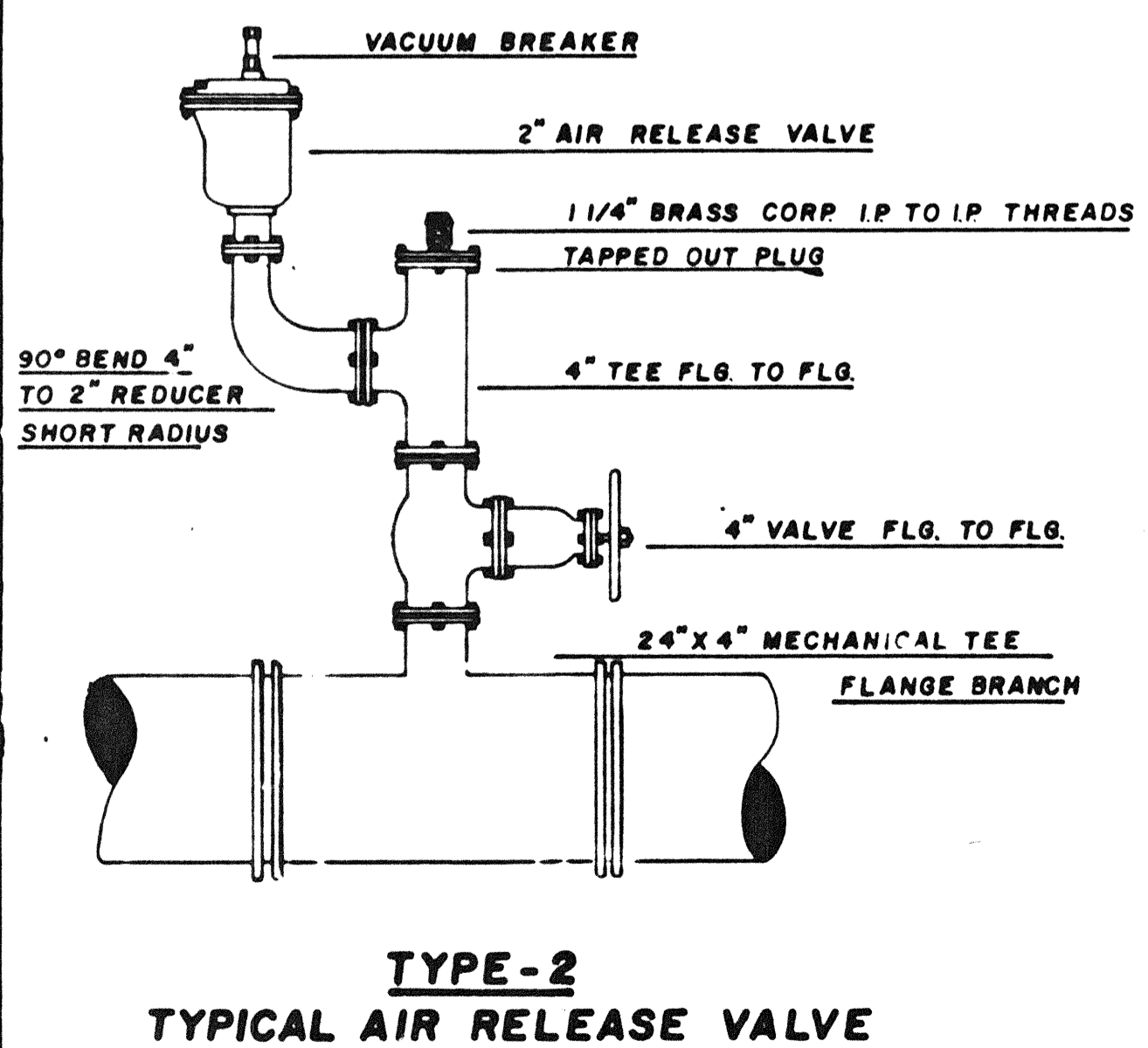
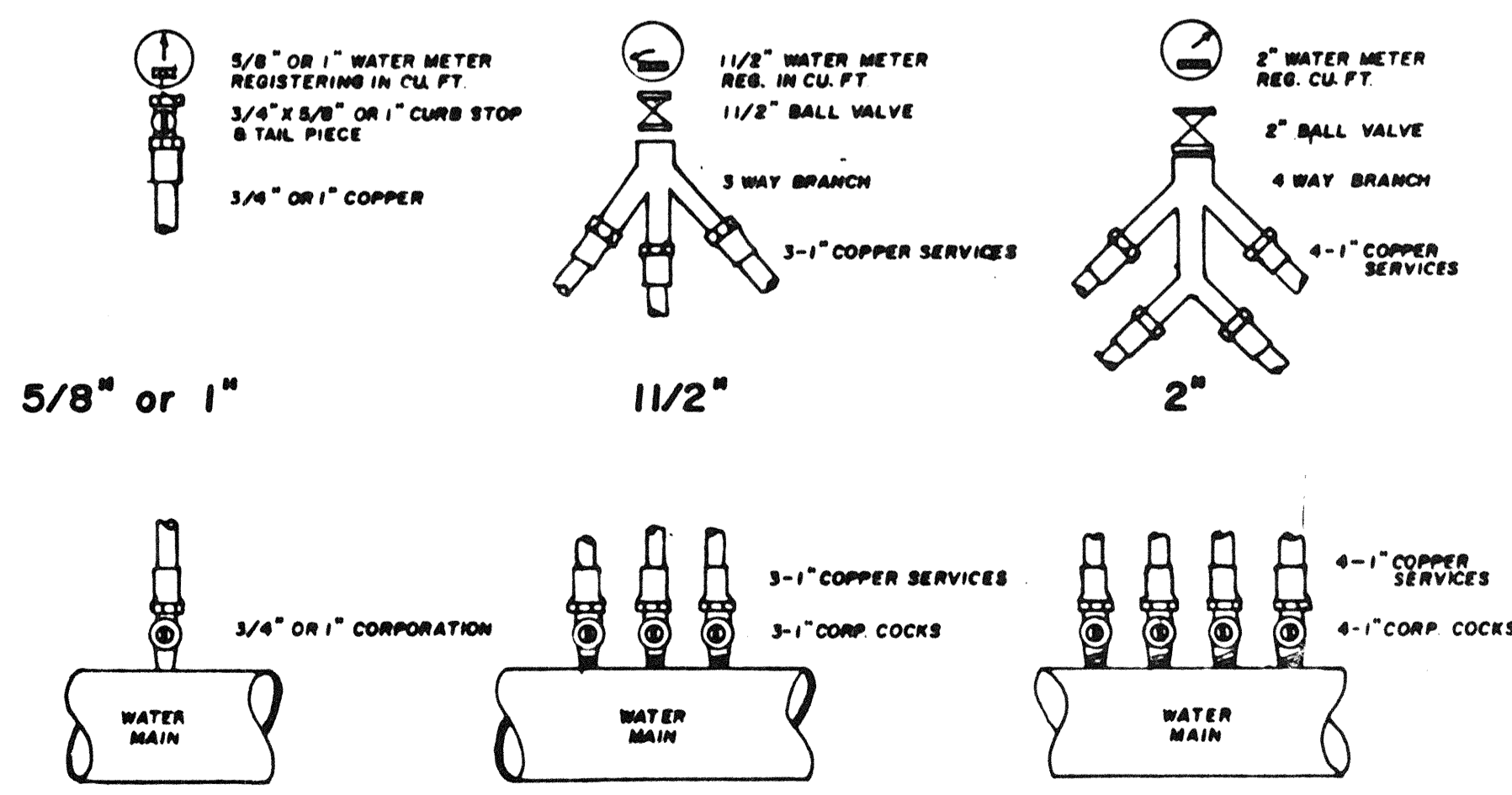
**TYPICAL FIRE HYDRANT INSTALLATION**



**TYPICAL STREET REPAIR**



**TYPICAL METER SERVICE**



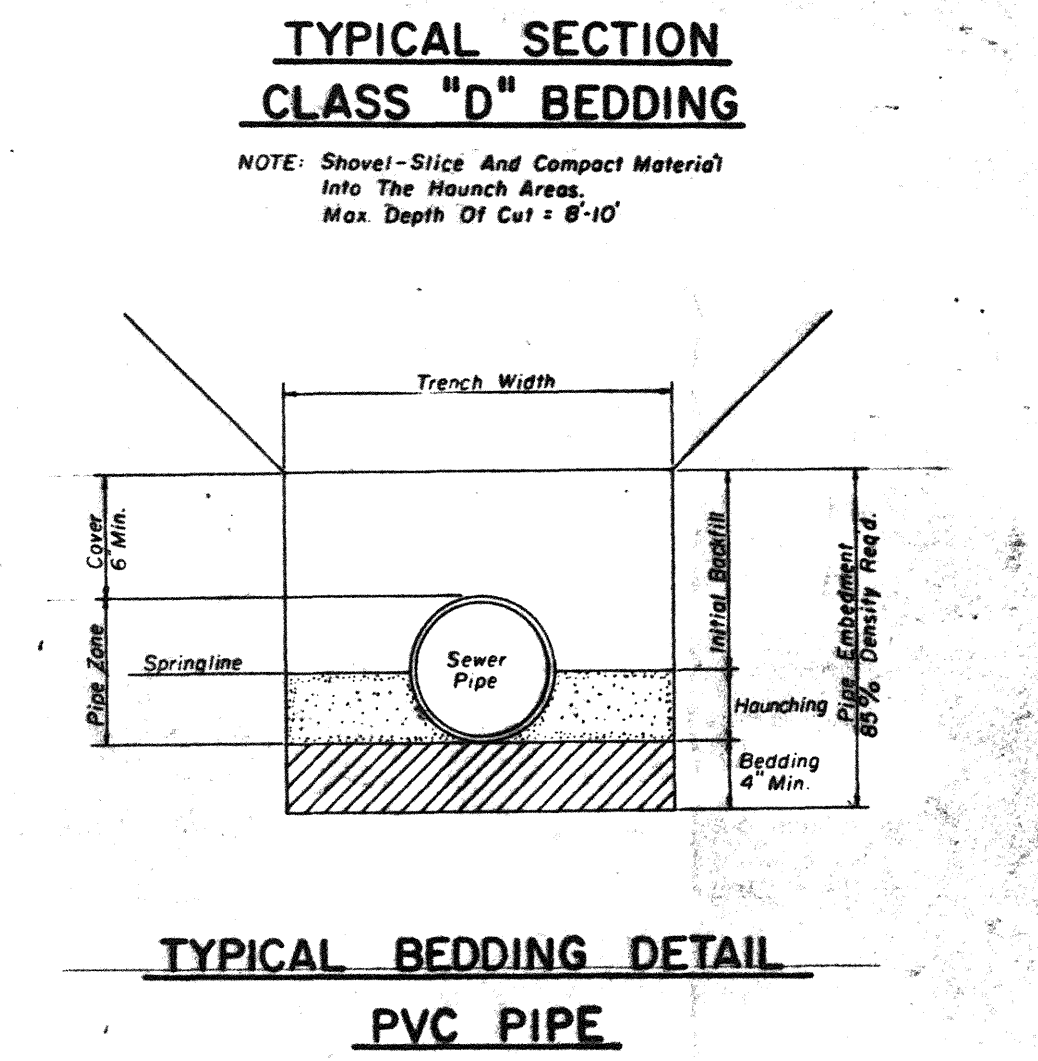
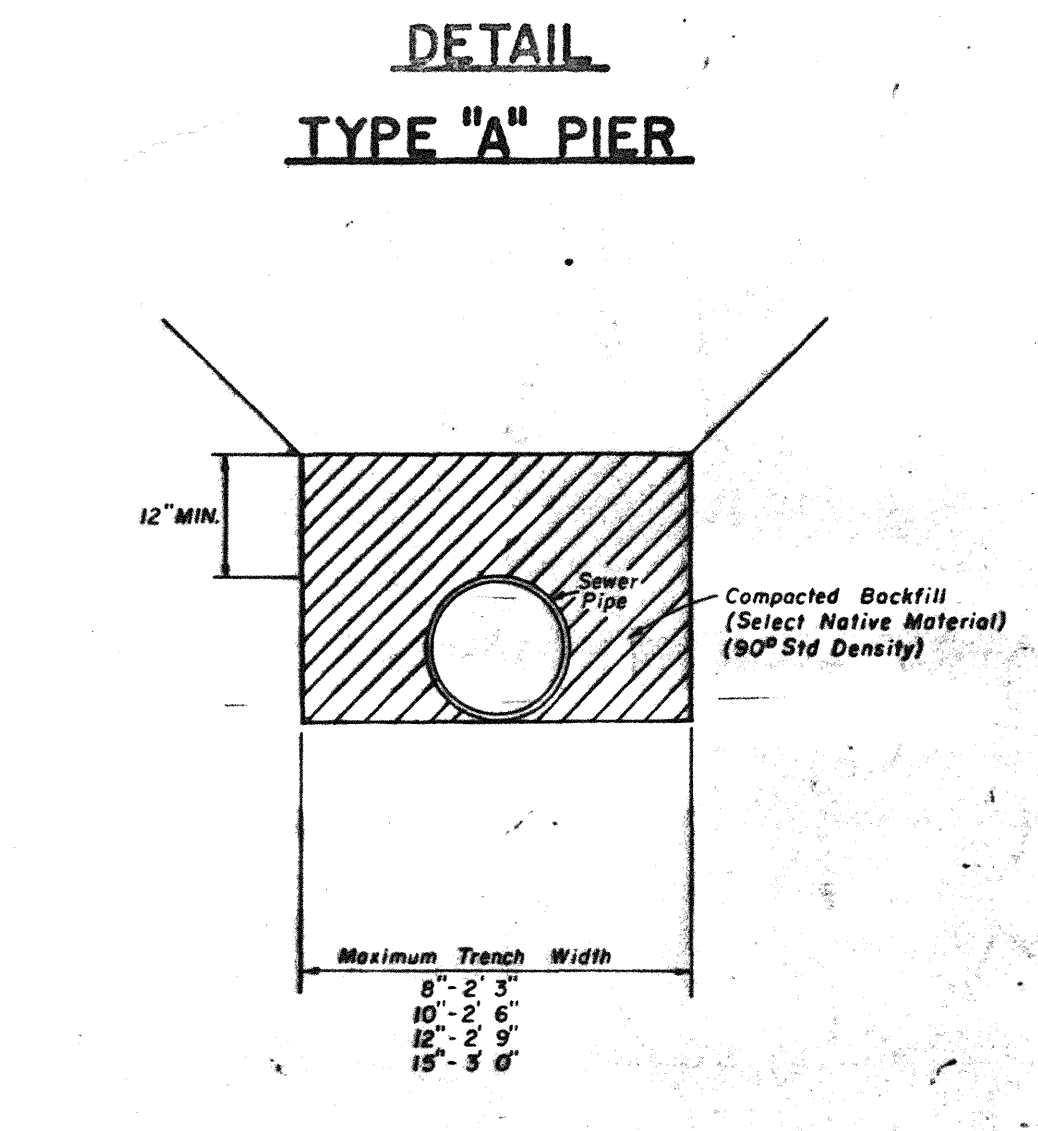
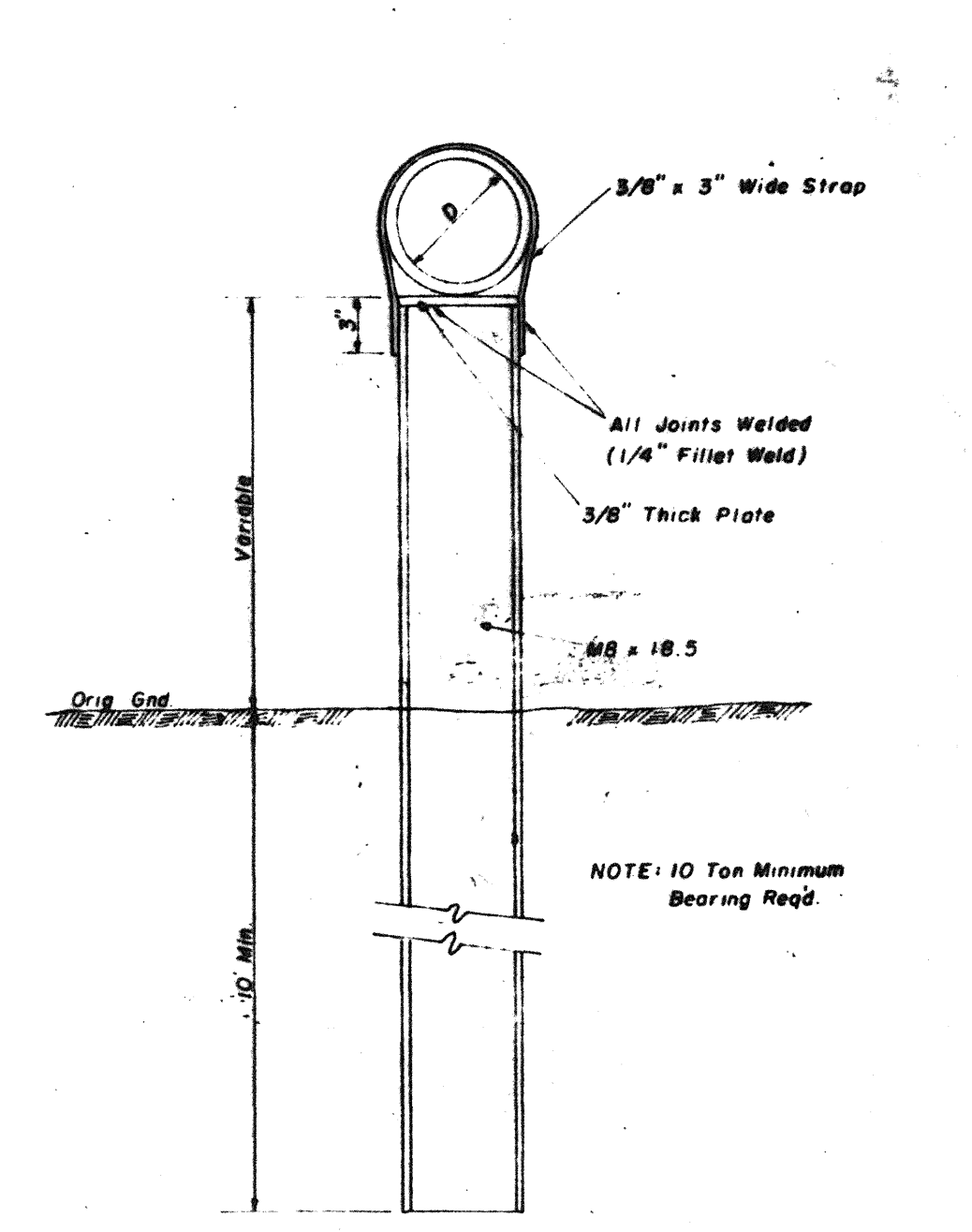
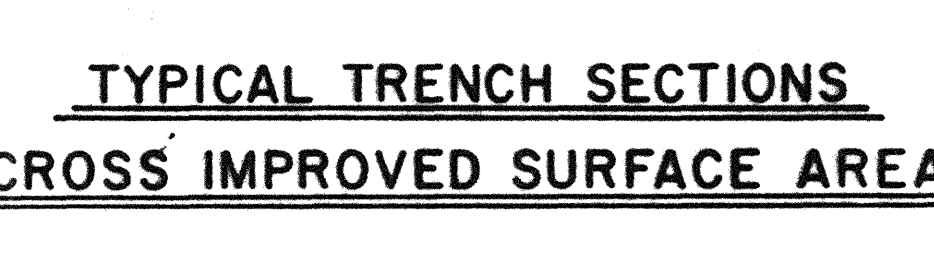
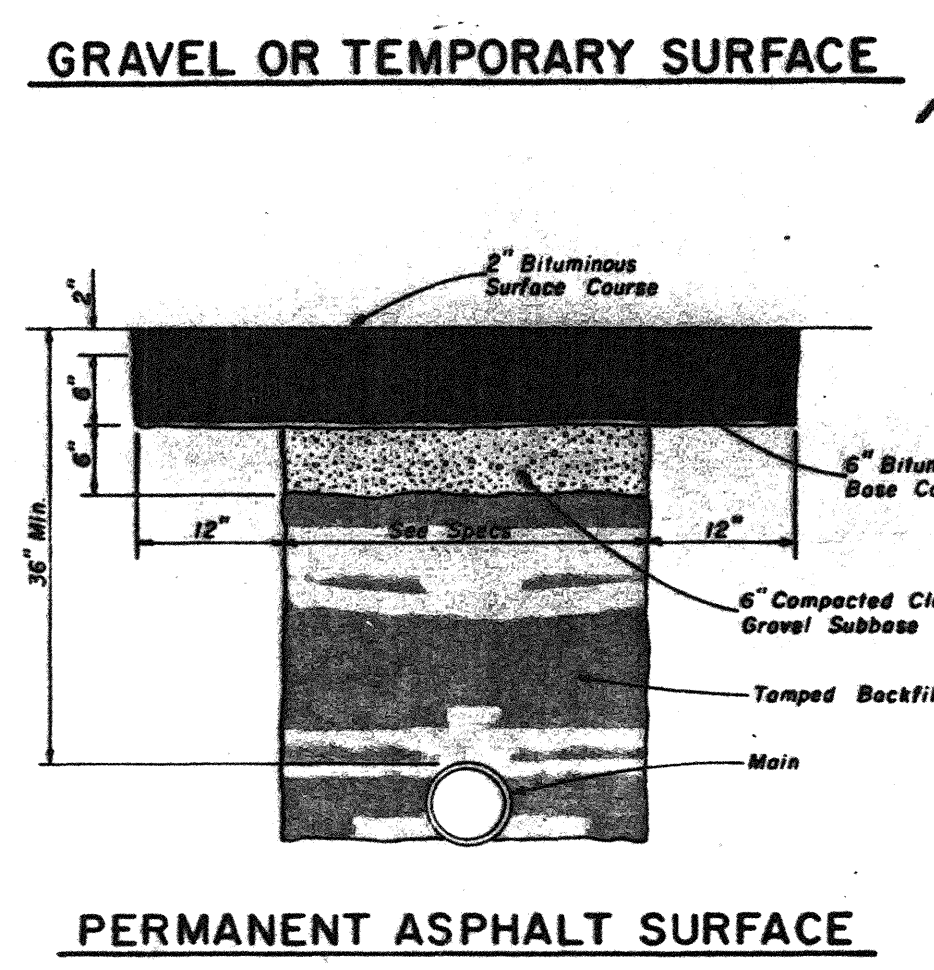
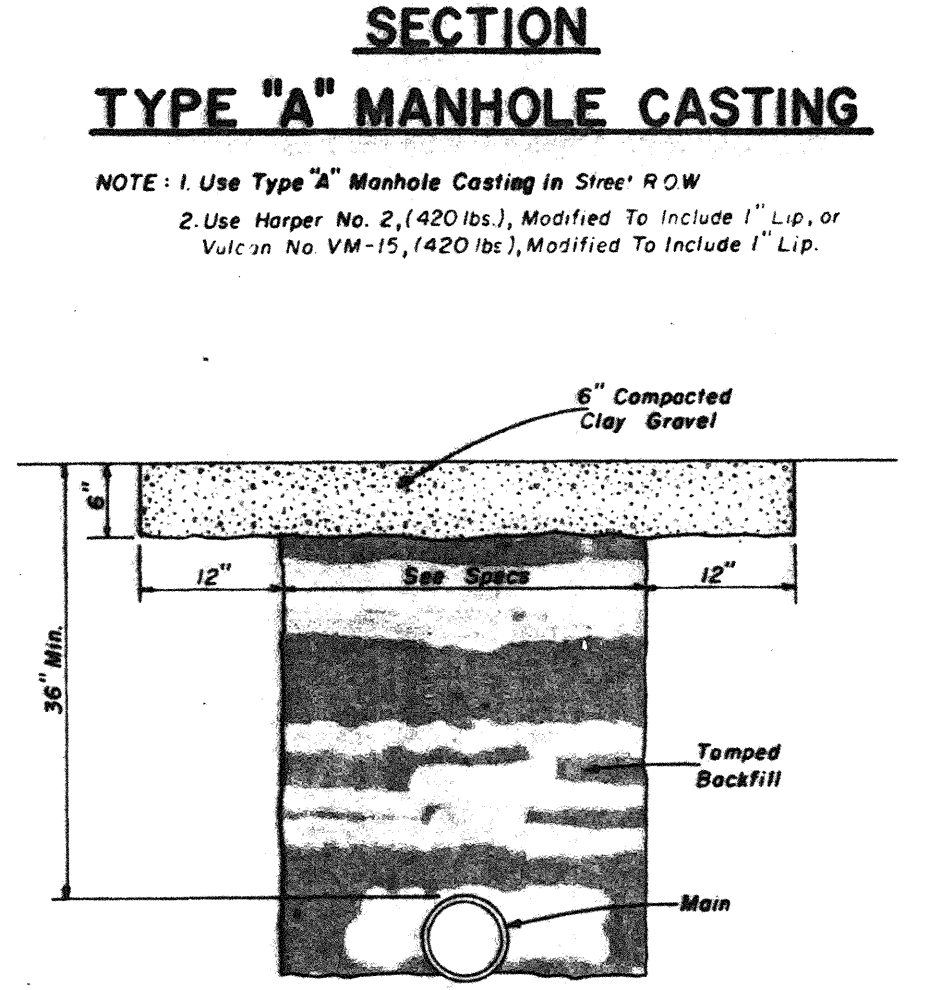
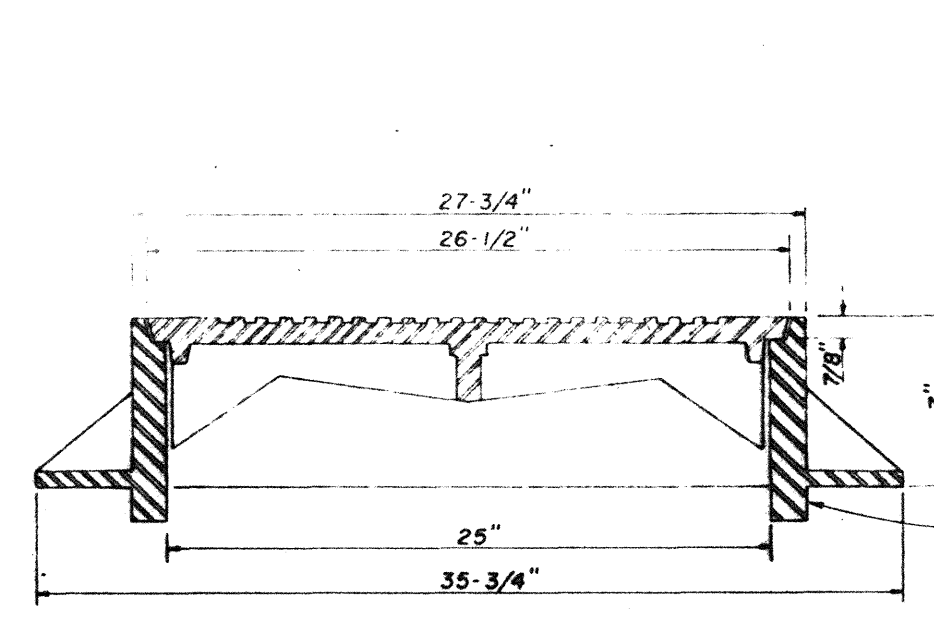
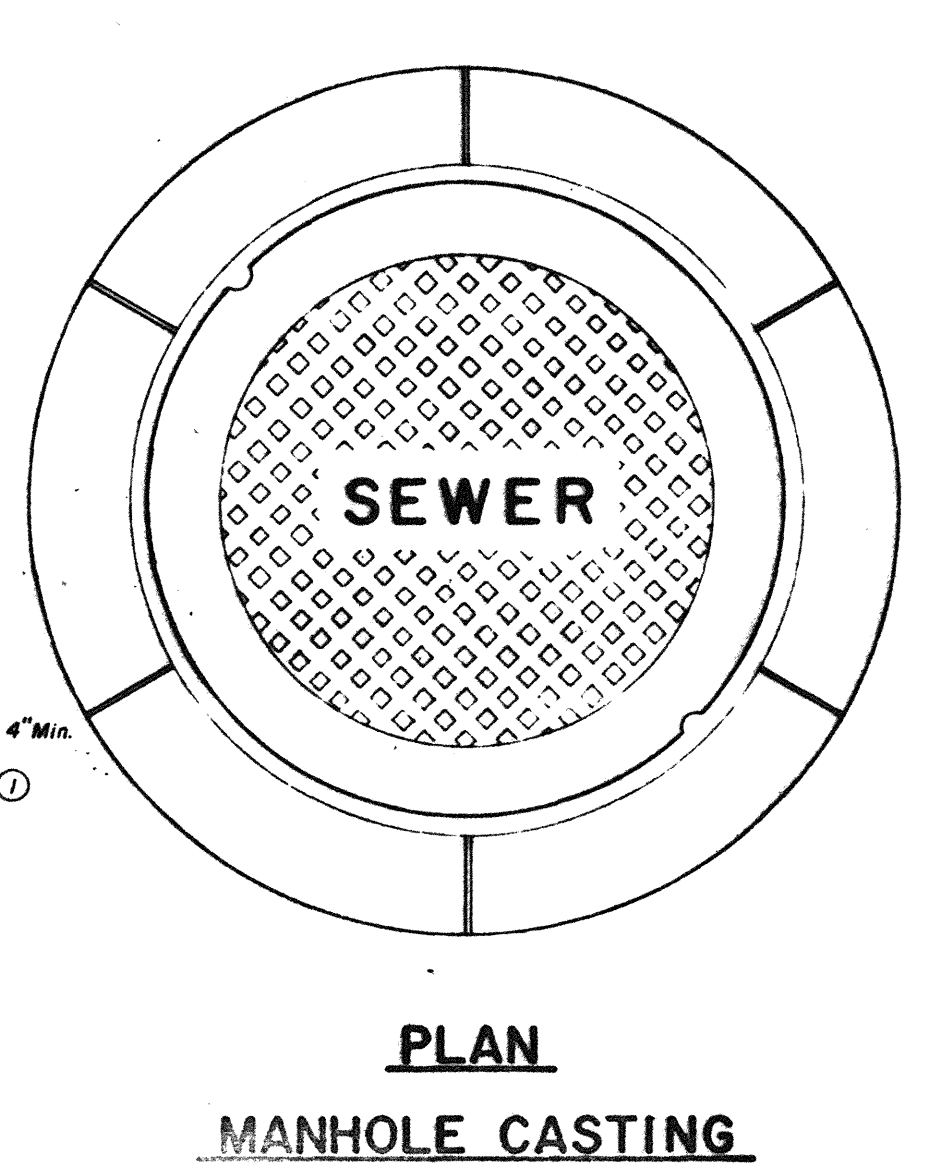
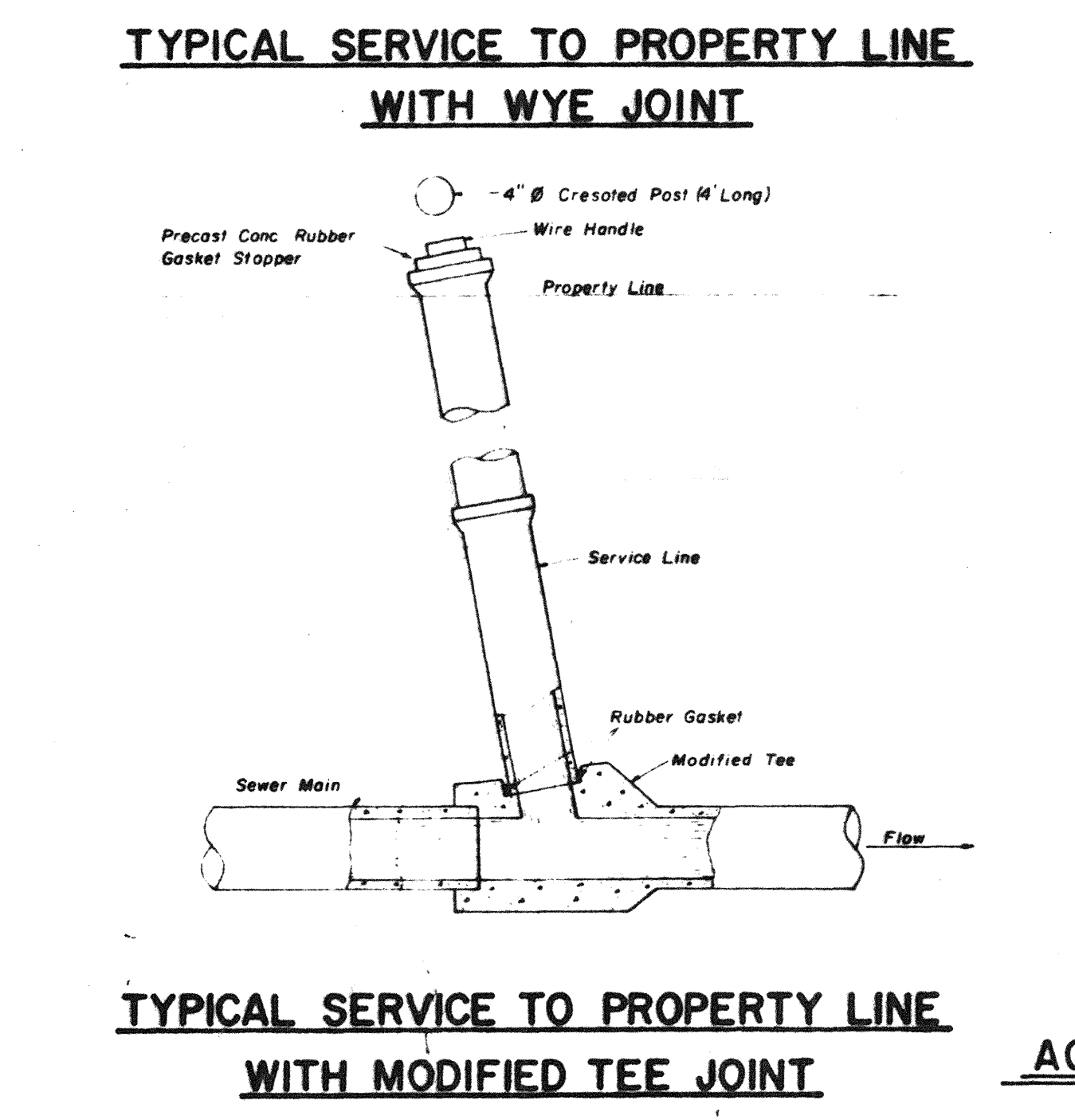
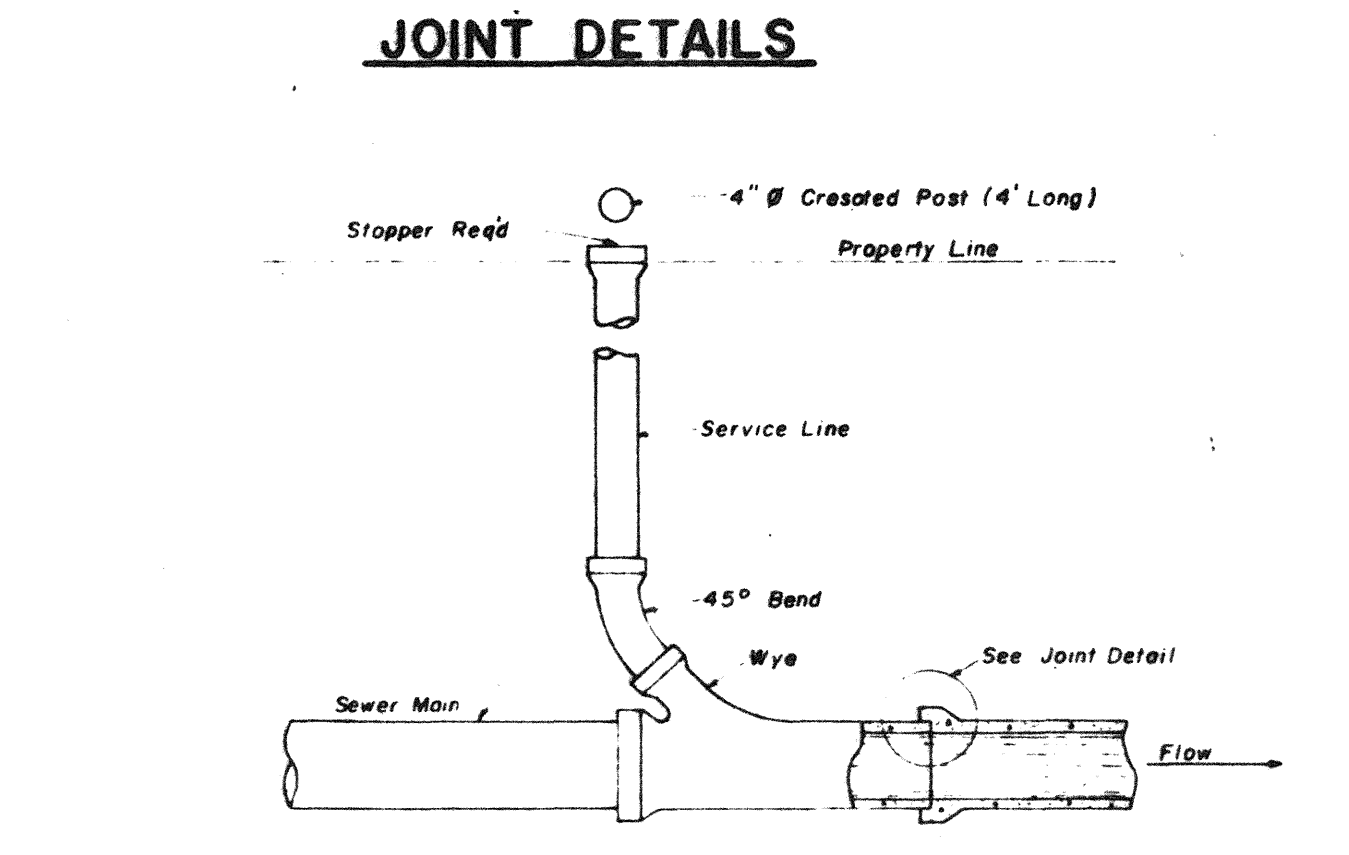
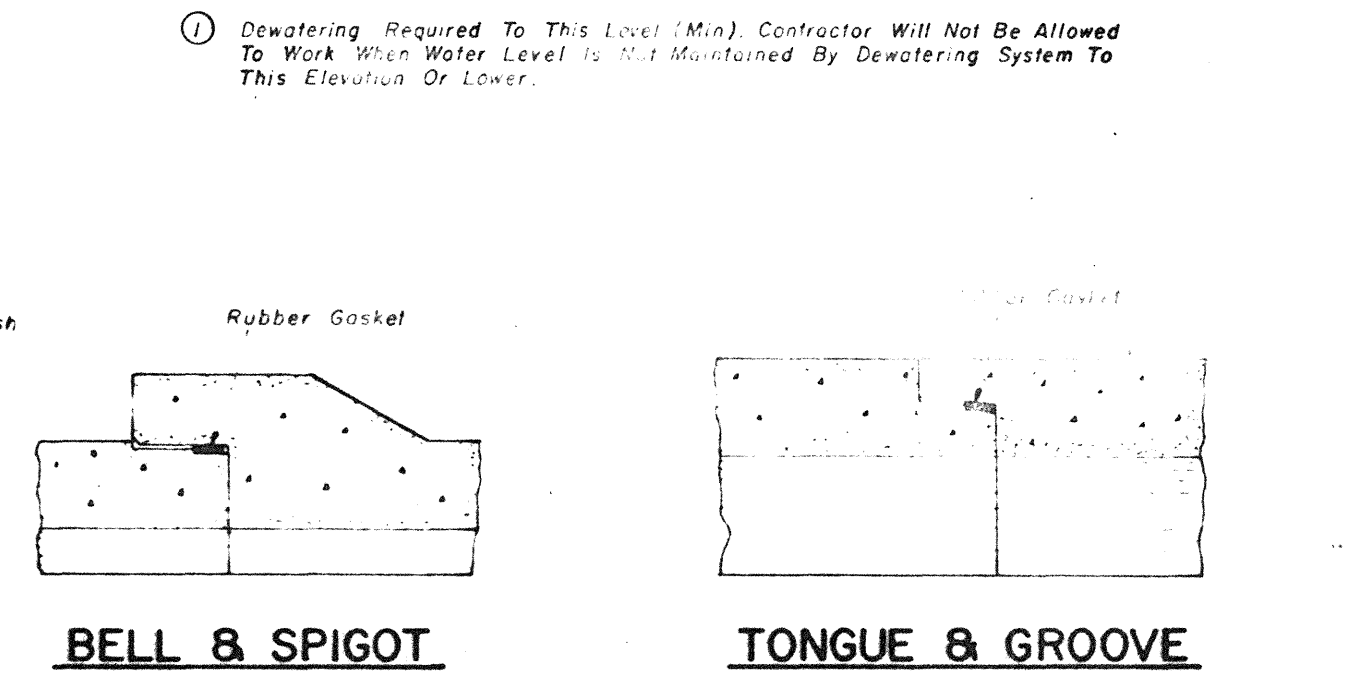
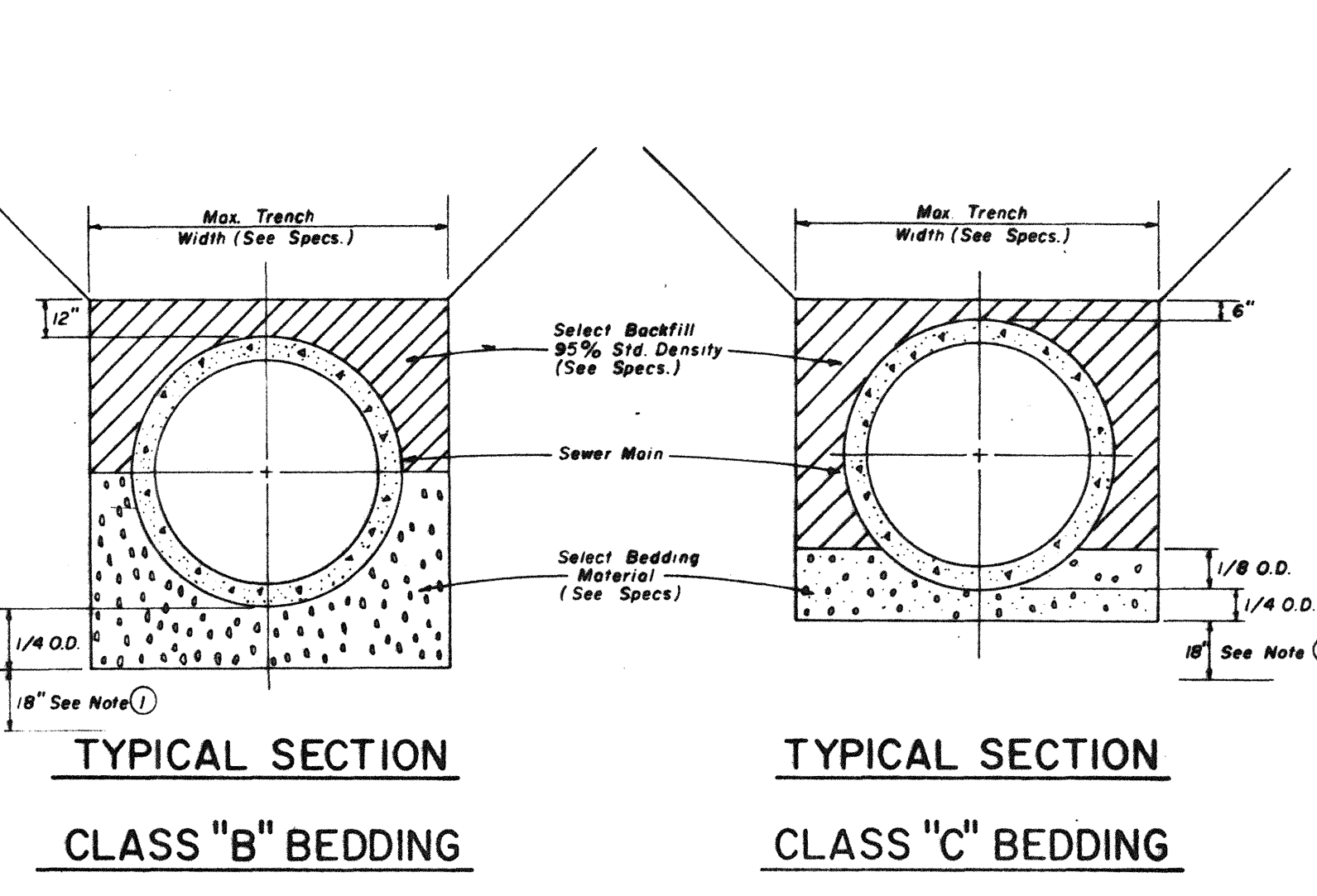
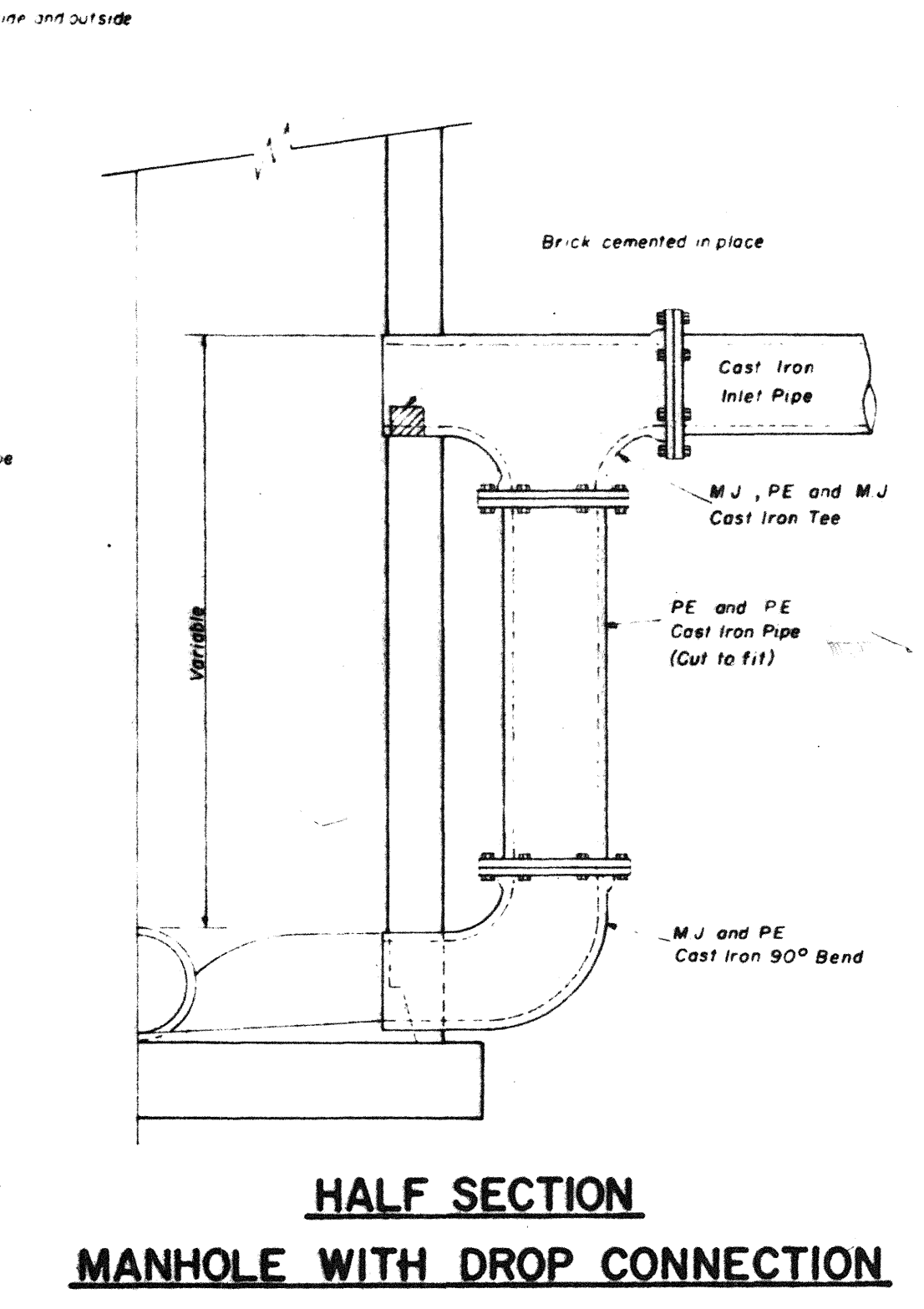
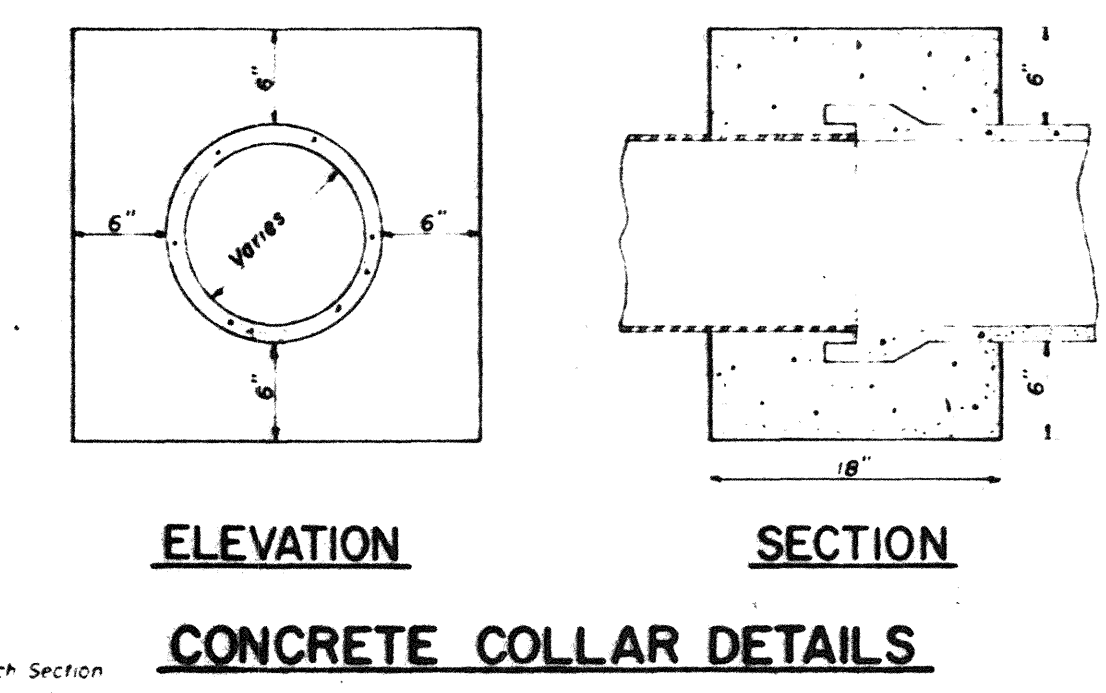
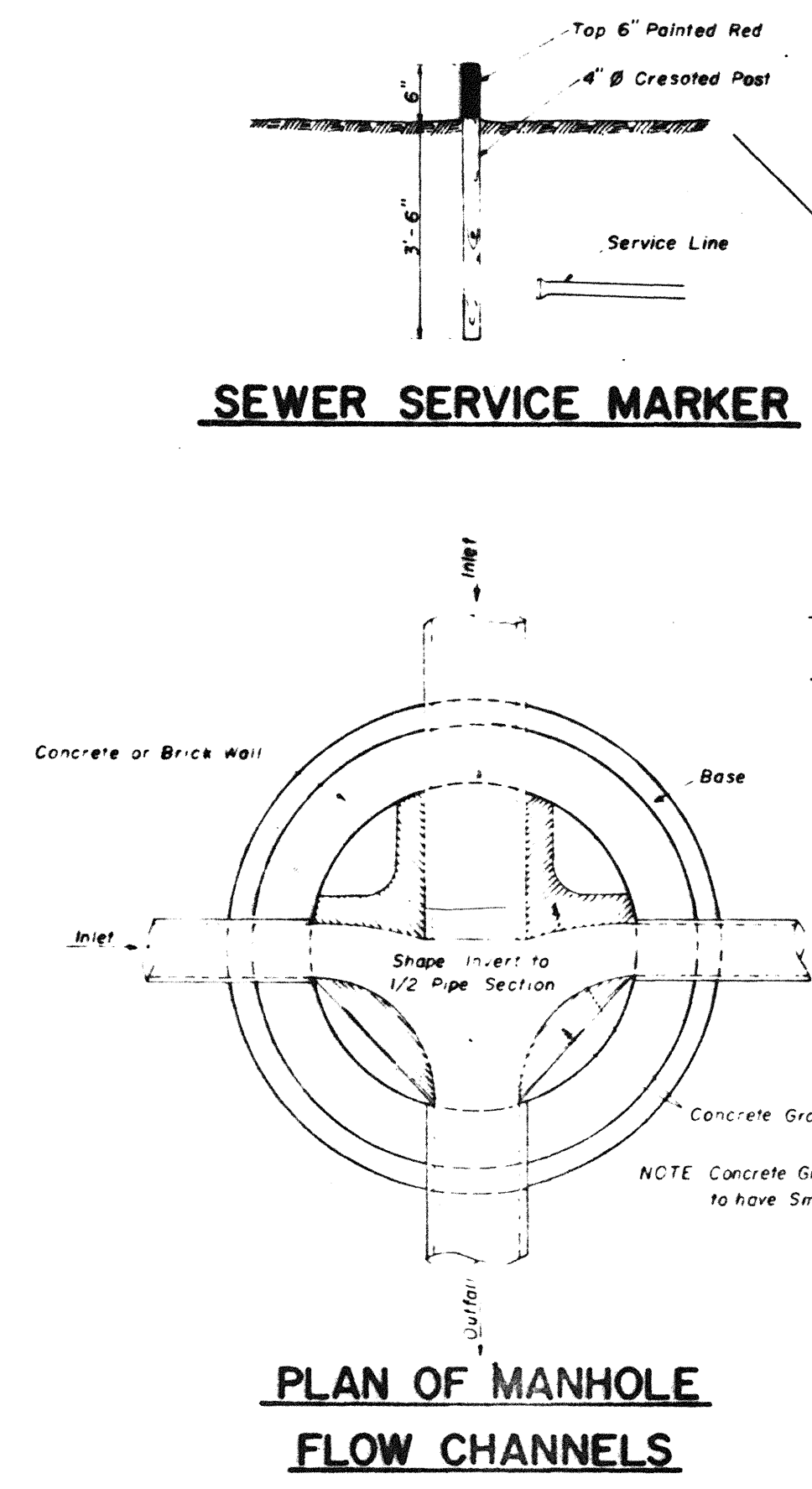
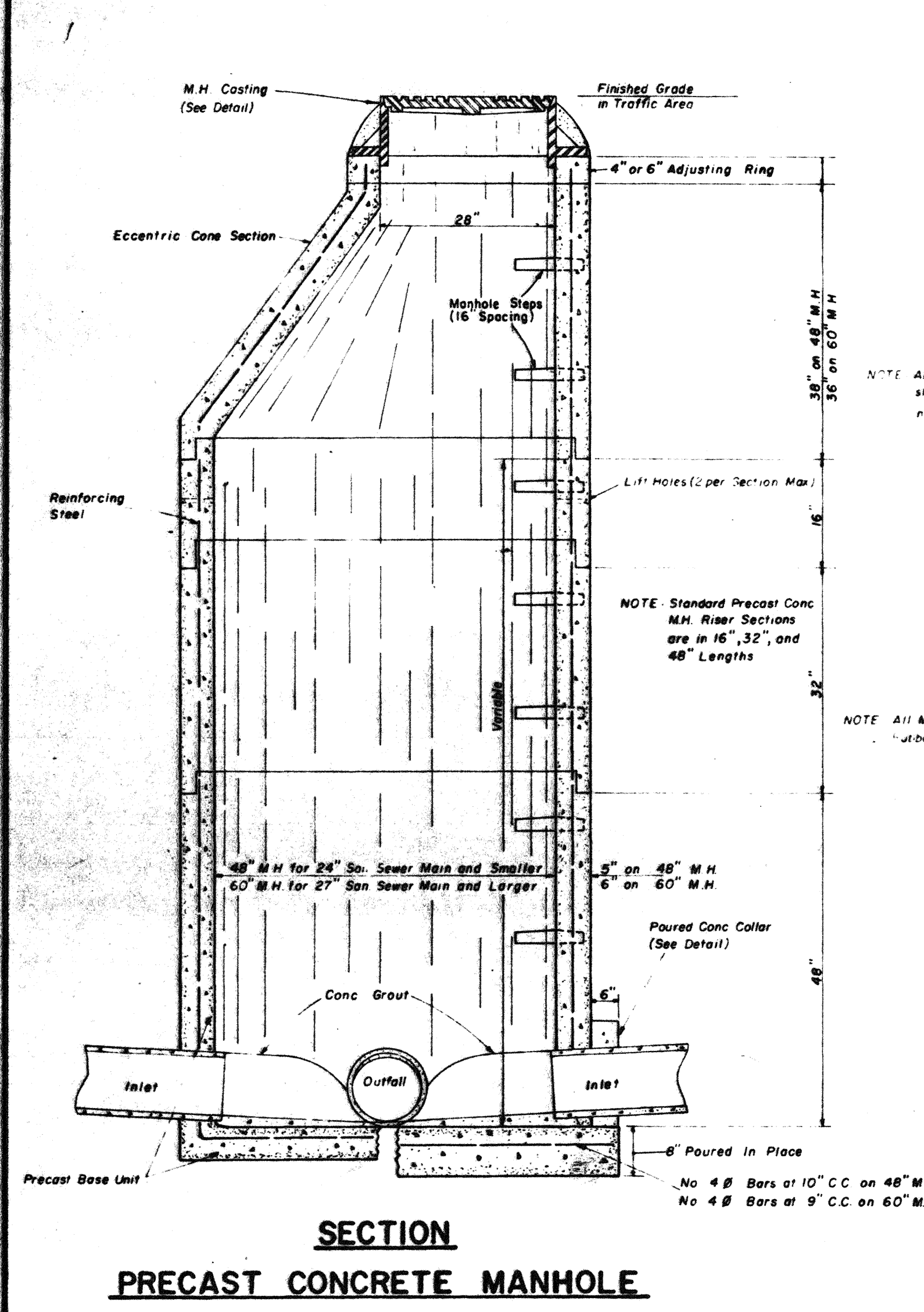
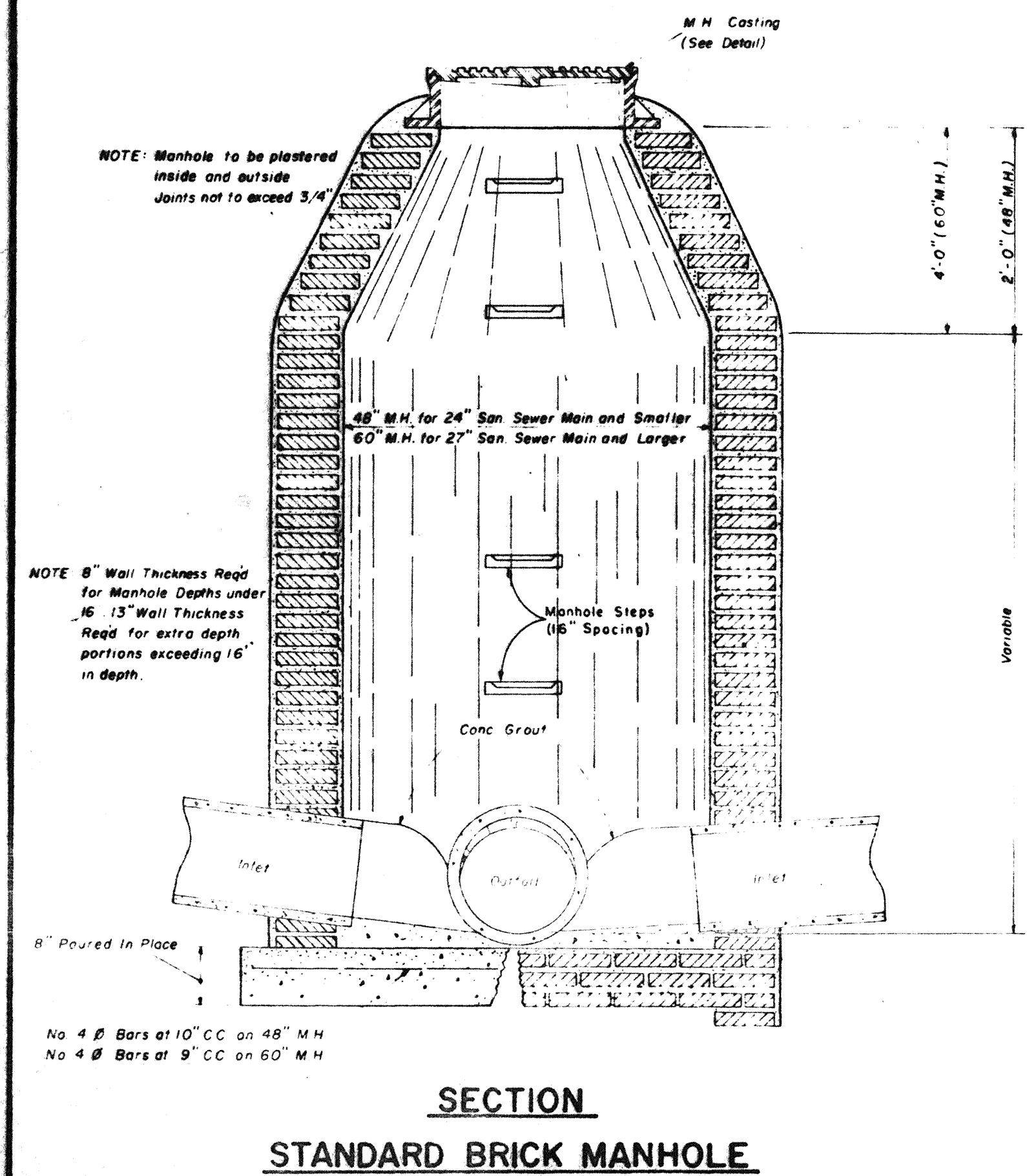
**CITY OF JACKSON**  
JACKSON, MS. 39205

**BUILDING A BEAUTIFUL AND BETTER JACKSON**

**STANDARD DETAIL**

DRAWN BY: <b>MICKEY</b>	PROJECT NUMBER	SHEET
DATE: <b>JULY 83</b>		<b>6</b>

91614 (51)



NO.	DATE	NATURE	BY	APP'D	CHECKED BY	FILE NO.
2	7-28-82	ADD PVC PIPE BEDDING DETAIL	M.C.	J.L.J.	J.L.J.	
1	4-23-81	ADD CLASS "D" BEDDING DETAIL	M.C.	J.L.J.	R.C.	

DESIGNED BY: J.L.J. DATE: 12-3-80

DRAWN BY: R.C. SCALE: AS SHOWN

CHECKED BY: J.L.J. FILE NO.:

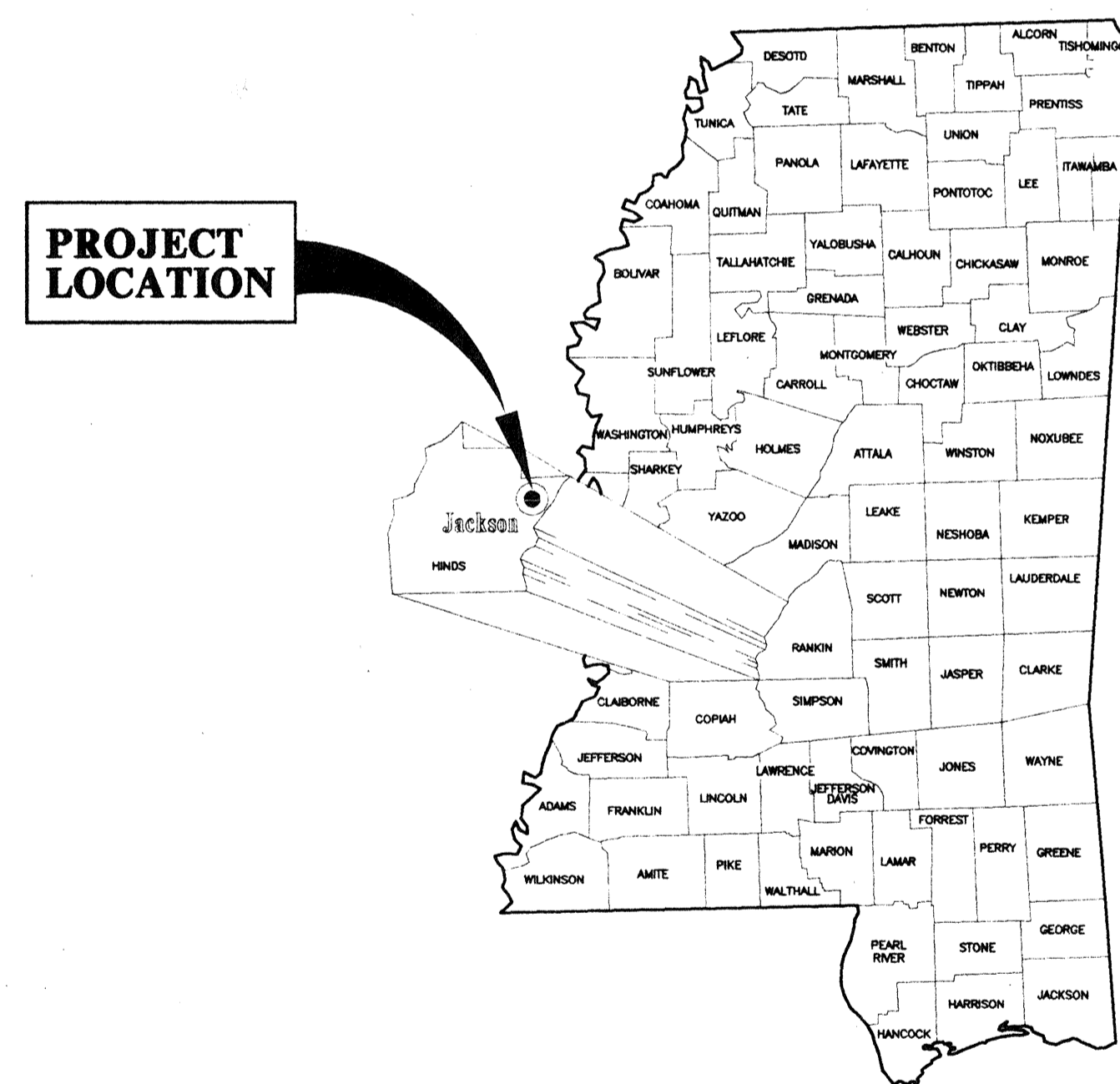
**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON, MISSISSIPPI

PROJECT NO. SEWER STANDARD CONSTRUCTION DETAILS SHEET S-1

81614(5)

CONSTRUCTION PLANS  
FOR  
**COLE ROAD SEWER  
EXTENSION**  
CITY PROJECT NO. 310.5  
CONTRACT NO. 2



VICINITY MAP

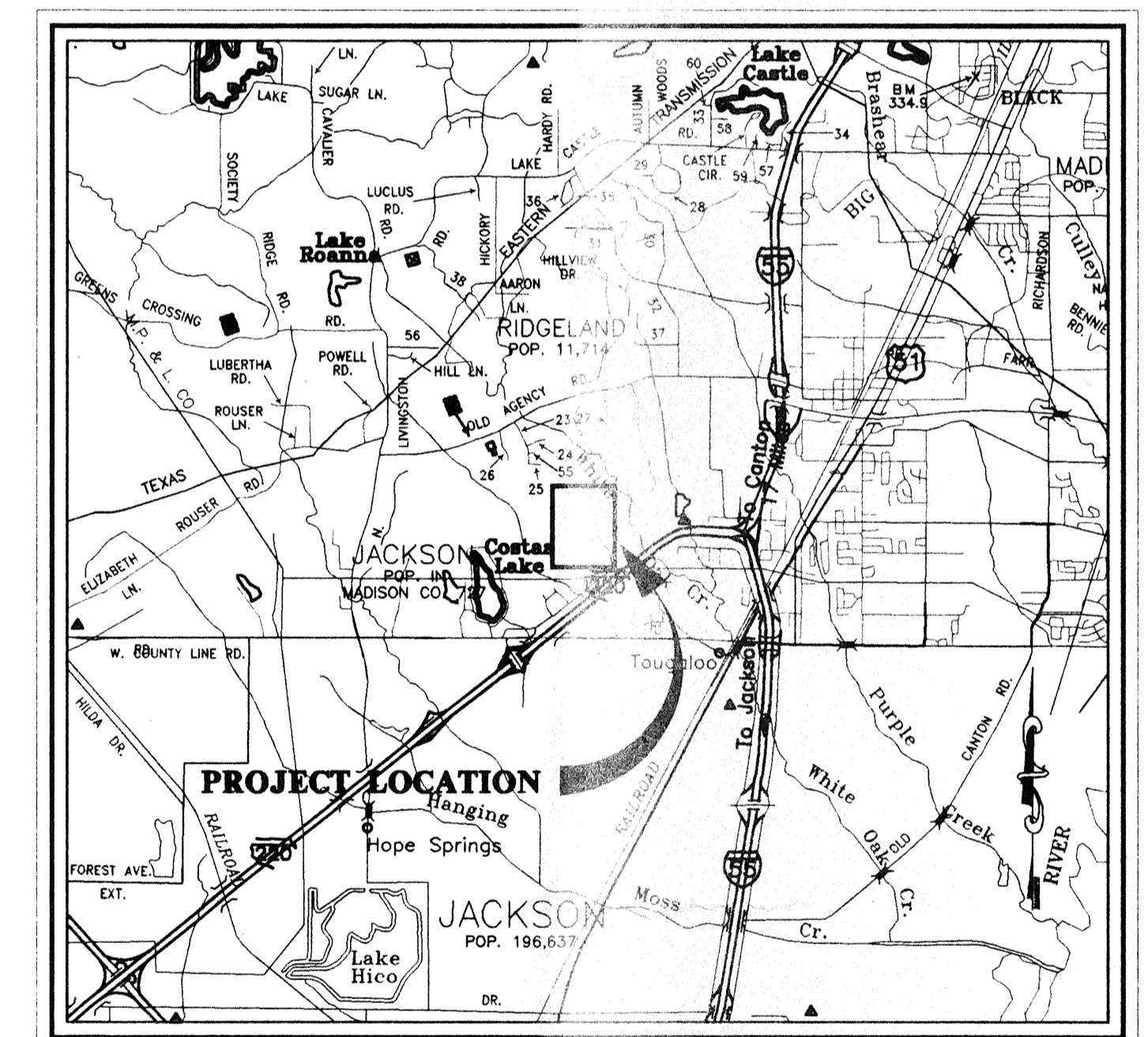


MAYOR:  
KANE DITTO

COUNCIL:  
DENT ANGLIN, WARD 1  
LOUIS E. ARMSTRONG\*, WARD 2  
KENNETH I. STOKES, WARD 3  
CREDELL CALHOUN, WARD 4  
E C FOSTER, WARD 5  
MARCIA WEAVER\*\*, WARD 6  
MARGARET CAROL BARRETT, WARD 7

\* PRESIDENT    \*\* VICE-PRESIDENT

PUBLIC WORKS DIRECTOR:  
GERALD E. BEARD



LOCATION MAP  
SCALE: 1"=2000'



RHONDA CREEL VARNER, P.E.  
MS LICENSE NO. 10744

*Cole Road San. Sew.  
Madison County*

**GENERAL NOTES**

1. CONSTRUCTION SHALL BE IN COMPLETE ACCORDANCE WITH THE CITY OF JACKSON STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, PAVEMENTS, SEWERS AND WATER DISTRIBUTION SYSTEM.
2. THE SANITARY SEWER SHALL BE INSTALLED AT THE GENERAL LOCATIONS SHOWN ON THE PLANS WITH A MINIMUM 10 FOOT HORIZONTAL CLEARANCE BETWEEN EXISTING WATER MAINS. AT LOCATIONS WHERE THE WATER AND SEWER LINES MUST CROSS EACH OTHER, THERE SHALL BE AN 18 INCH MINIMUM CLEARANCE WITH THE WATER LINE CROSSING OVER THE SEWER LINE. IF THESE SEPARATIONS CANNOT BE MET, THE SEWER LINE SHALL BE CONSTRUCTED TO THE CITY OF JACKSON SPECIFICATIONS FOR WATER DISTRIBUTION MAINS.
3. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY.
4. CONTRACTOR SHALL CONTACT MS ONE-CALL SYSTEMS, INC. (601) 362-4374 TO HAVE ALL UTILITIES LOCATED AND MARKED ON THE GROUND BEFORE ANY EXCAVATION IS BEGUN. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF JACKSON.
5. ALL AREAS EXCEPT STREETS AND DRIVEWAYS DISTURBED BY CONSTRUCTION SHALL BE FERTILIZED AND SEEDED UPON COMPLETION OF WORK. STREETS AND DRIVEWAYS DISTURBED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED USING THE SAME TYPE MATERIALS USED IN ORIGINAL CONSTRUCTION.
6. PROPER SIGNAGE AND MANPOWER SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION TO MAINTAIN SAFE TRAFFIC FLOW THROUGH AND AROUND CONSTRUCTION ZONES.

**LEGEND**

- · · · · · PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT
- CENTER LINE
- EDGE OF PAVEMENT
- BACK OF CURB
- 304 --- EXISTING CONTOUR
- ====○==== PROPOSED SANITARY SEWER & MANHOLE
- ====□==== EXISTING STORM SEWER & CATCH BASIN
- SS --- EXISTING SANITARY SEWER
- W --- EXISTING WATER LINE
- EXISTING FENCE
- ▨ EXISTING BUILDING
- W EXISTING WATER VALVE
- ⋈ EXISTING FIRE HYDRANT
- T EXISTING TEE

**INDEX TO DRAWINGS**

- 1 COVER SHEET
- 2 GENERAL NOTES AND INDEX TO DRAWINGS
- 3 SITE PLAN
- 4 PLAN AND PROFILE SANITARY SEWER STA. 10+00 - STA. 24+50
- 5 PLAN AND PROFILE SANITARY SEWER STA. 24+50 - STA. 39+50
- 6 PLAN AND PROFILE SANITARY SEWER STA. 39+50 - STA. 49+24.09
- 7 MISCELLANEOUS DETAILS

COLE-207 Mon Feb 27 14:36:03 1995 R. David Bates - STERLING CONSULTANTS, INC.

<b>COLE ROAD SEWER EXTENSION CITY PROJECT NO. 310.5</b>			
<b>GENERAL NOTES AND INDEX TO DRAWINGS</b>			
<b>CITY OF JACKSON MADISON COUNTY, MISSISSIPPI</b>			
DESIGN: R.C.V.	DATE: 2/1/95		DRAWING NO.
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CHECK: R.C.V.	DATE: 2/1/95		OF 7
SCALE: AS SHOWN			

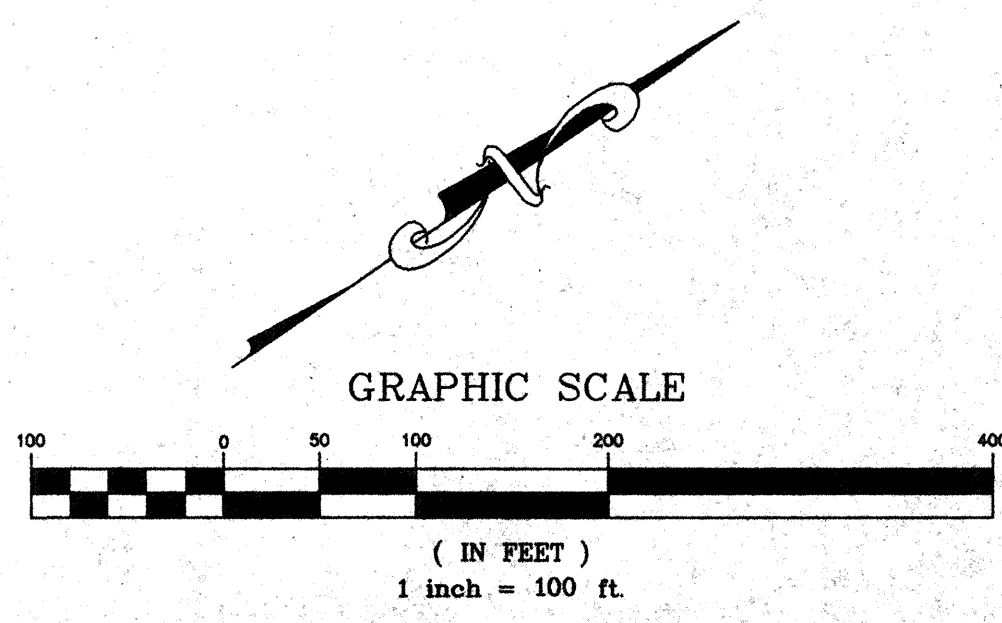
REVISION	BY	DATE



6 OF 7

5 OF 7

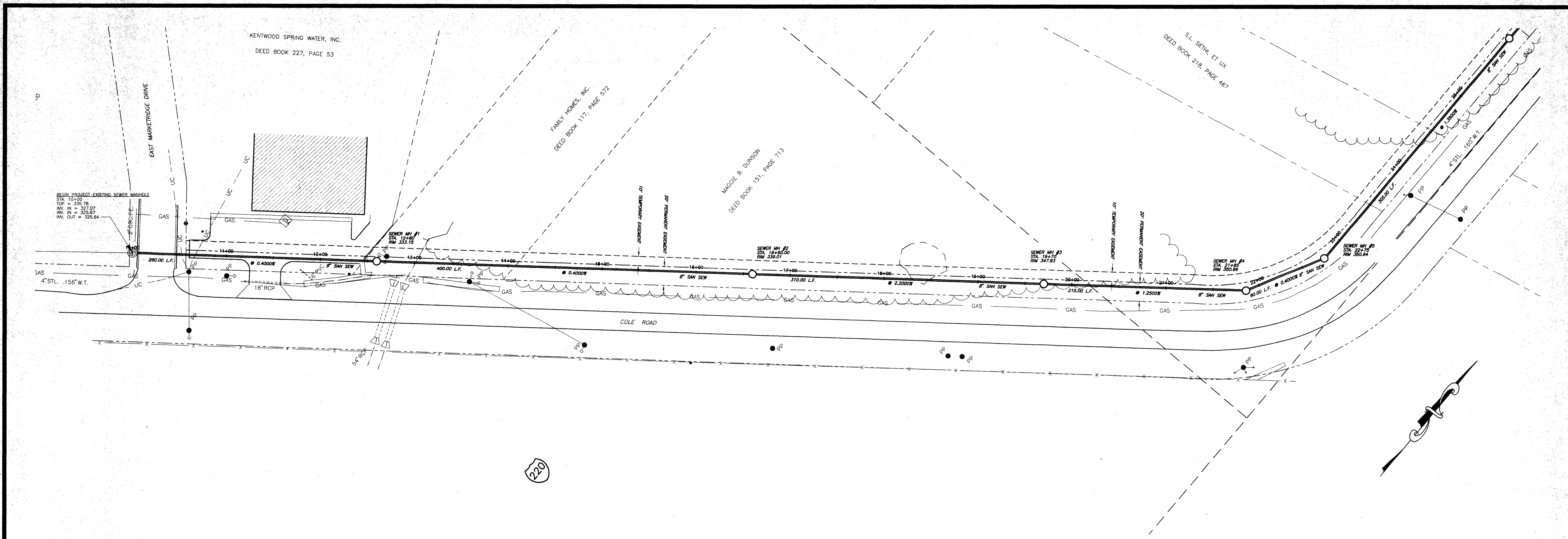
4 of 7



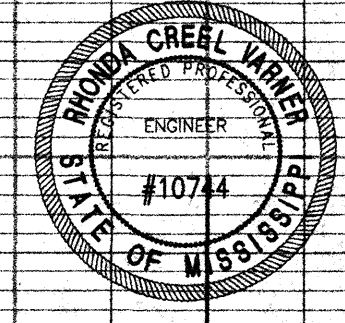
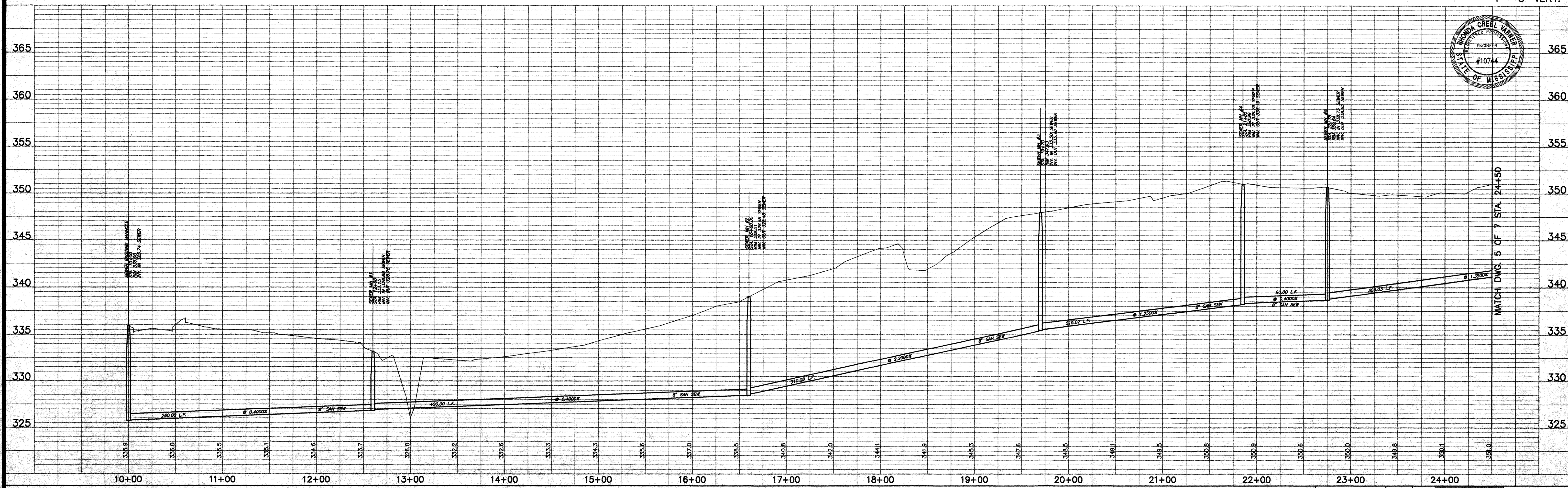
<b>COLE ROAD SEWER EXTENSION CITY PROJECT NO. 310.5</b>			
<b>SITE PLAN</b>			
<b>CITY OF JACKSON MADISON COUNTY, MISSISSIPPI</b>			
DESIGN: R.C.V.	DATE: 1/99		DRAWING NO. <b>3 OF 7</b>
DRWN: R.D.B.	DATE: 1/99		
CHKD: DATE:			
SCALE: 1"=100'			

C:\VOLUME\PROJECT\Map\Map\_1\_08\_26\_47\_1998 - R. David Bates - STERLING CONSULTANTS, INC.

REVISION	BY	DATE



SCALE 1"=50' HORIZ.  
1"= 5' VERT.



COLE ROAD SEWER  
EXTENSION  
CITY PROJECT NO. 310.5

PLAN AND PROFILE - SANITARY SEWER  
STA. 10+00 - STA. 24+50

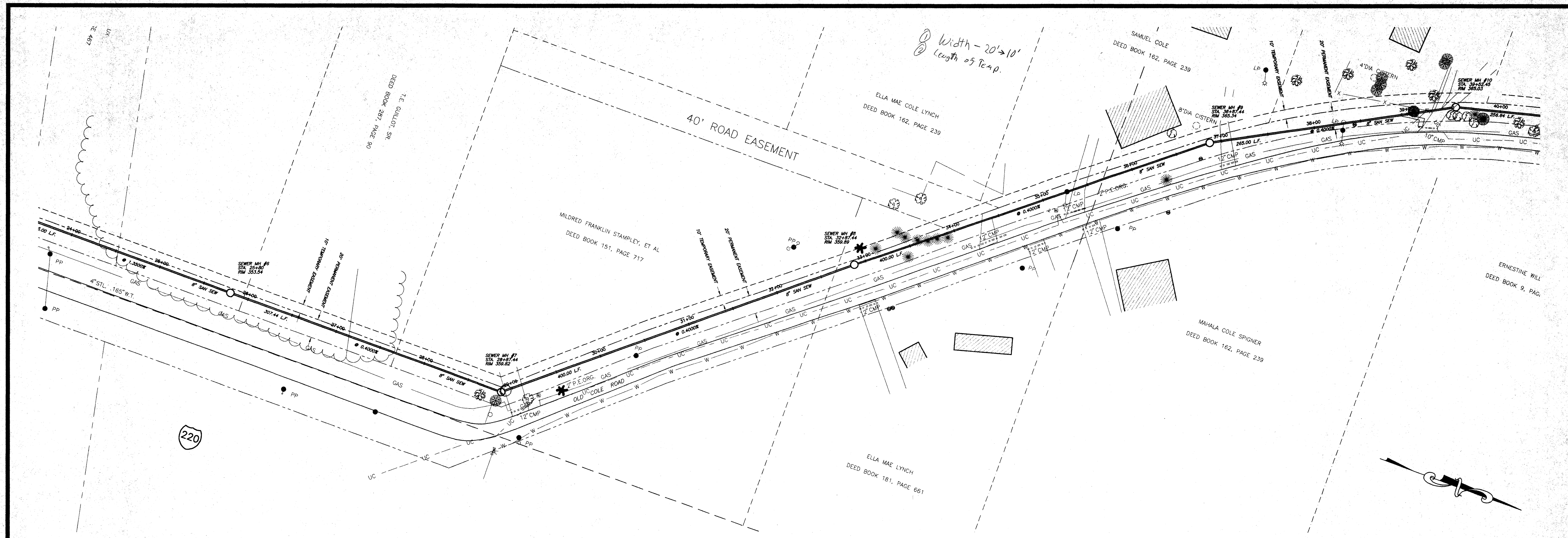
Prepared For:  
CITY OF JACKSON  
HINDS COUNTY, MISSISSIPPI

Designed By:	R.C.V.	DATE:	01/95
Drawn By:	R.P.D.	DATE:	01/95
Checked By:	R.C.V.	DATE:	01/95
Scale:	1"=50' HORIZ.	1"=5' VERT.	

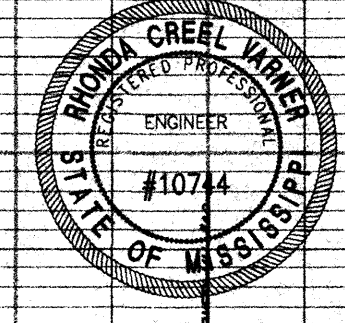
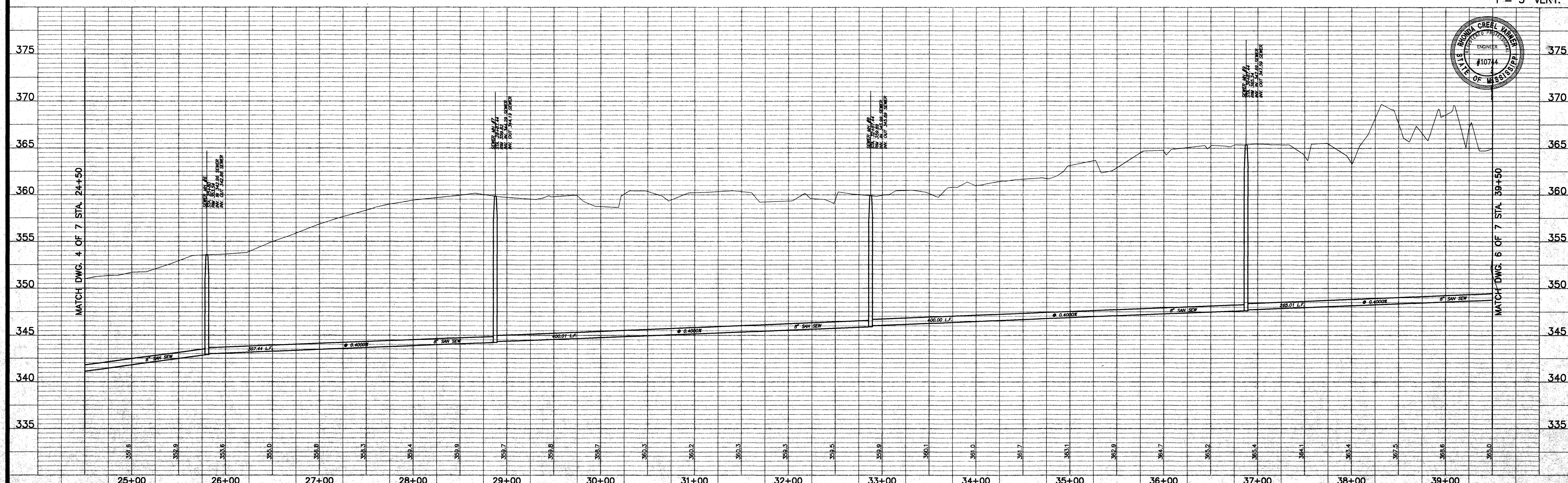
Drawing No.  
4 of 7

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SCALE 1"=50' HORIZ.  
1"= 5' VERT.



COLE ROAD SEWER  
EXTENSION  
CITY PROJECT NO. 310.5

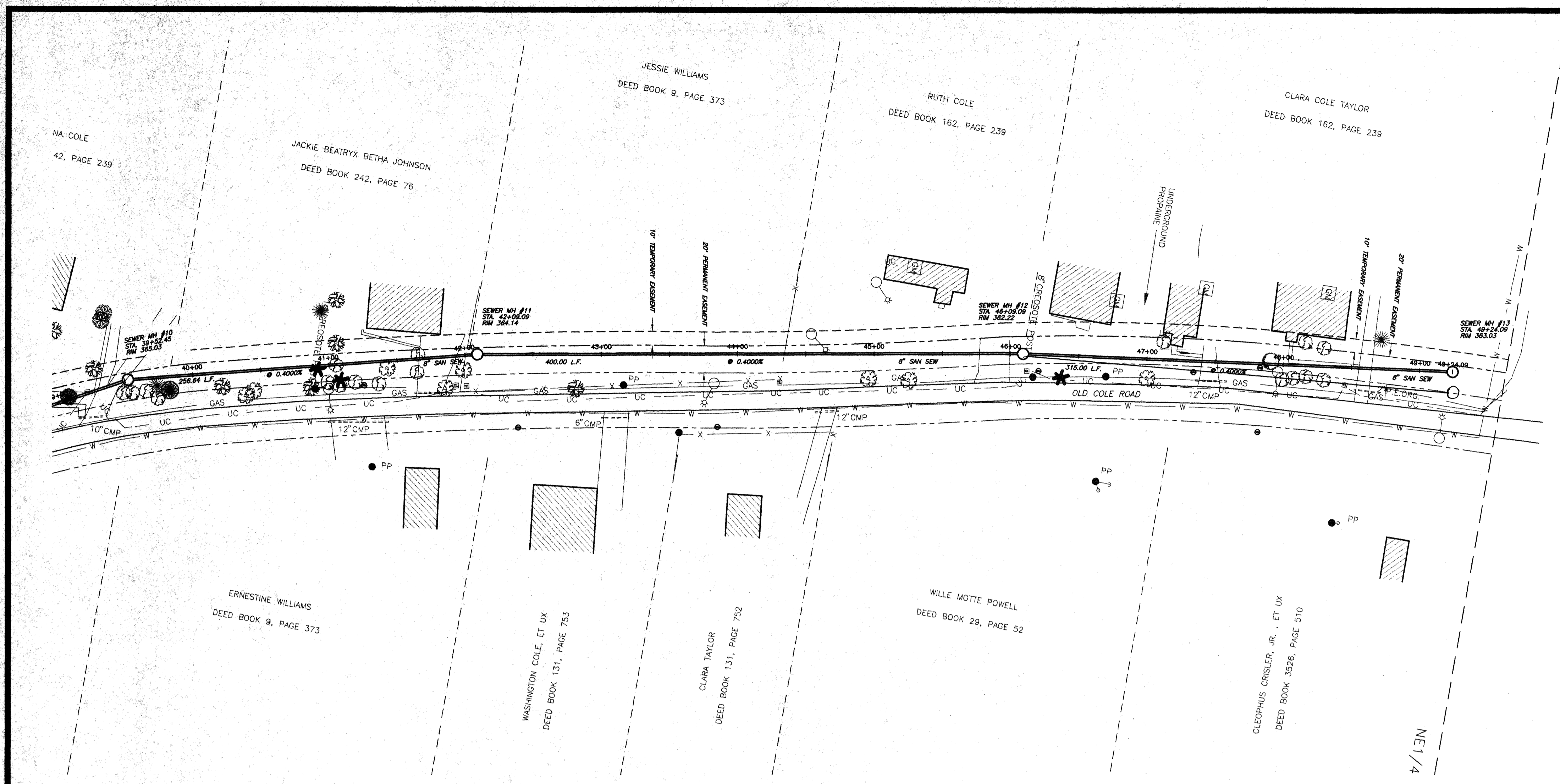
PLAN AND PROFILE - SANITARY SEWER  
STA. 24+50 - STA. 39+50

Prepared For:  
CITY OF JACKSON  
HINDS COUNTY, MISSISSIPPI

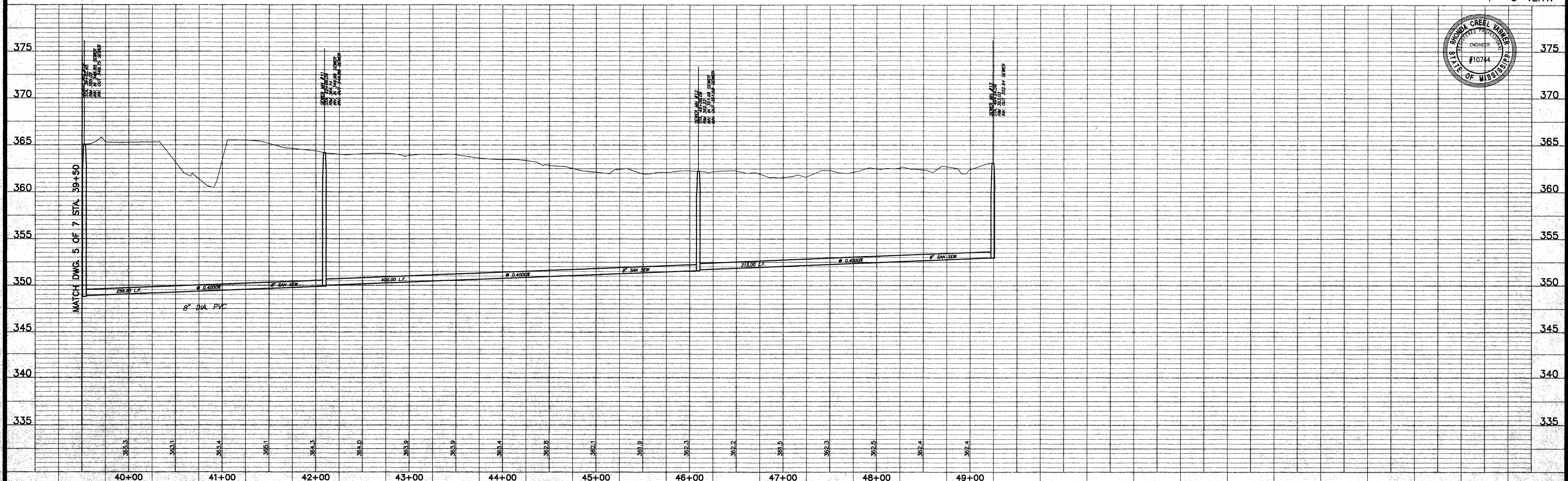
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Drawn By:	RDP	DATE:	01/15
Checked By:	RCV	DATE:	01/15
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Drawing No.  
5 of 7

EX-310.5 (REV.) Tue Feb 28 15:06:02 1995 R. David Bates - STERLING CONSULTANTS, INC.



SCALE 1"=50' HORIZ.  
1"= 5' VERT.



COLE ROAD SEWER  
EXTENSION  
CITY PROJECT NO. 3105

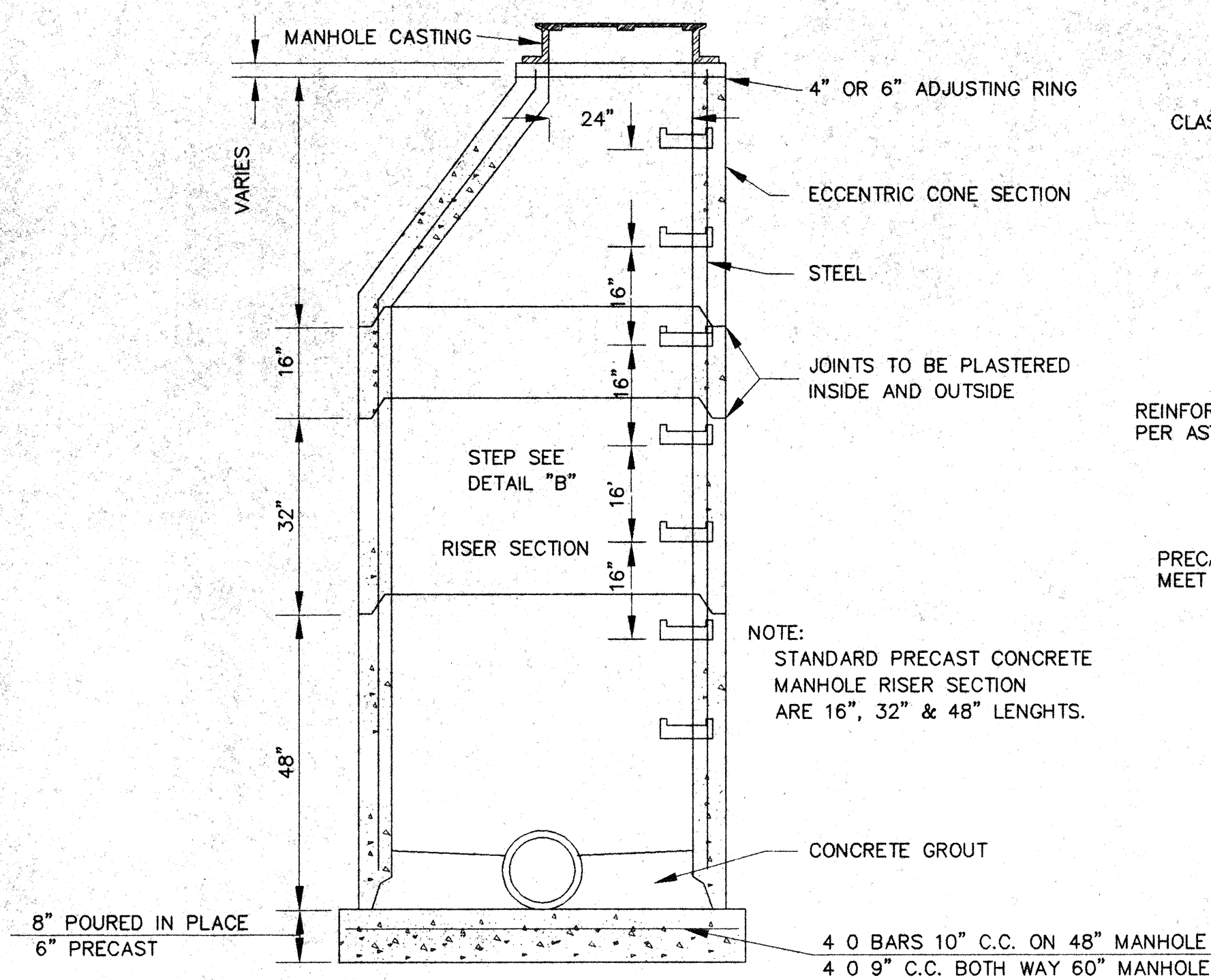
PLAN AND PROFILE - SANITARY SEWER  
STA. 39+50 - STA. 49+24.09

Prepared For:  
CITY OF JACKSON  
HINDS COUNTY, MISSISSIPPI

Designed By:	RCV	DATE:	01/98
Drawn By:	RDP	DATE:	01/98
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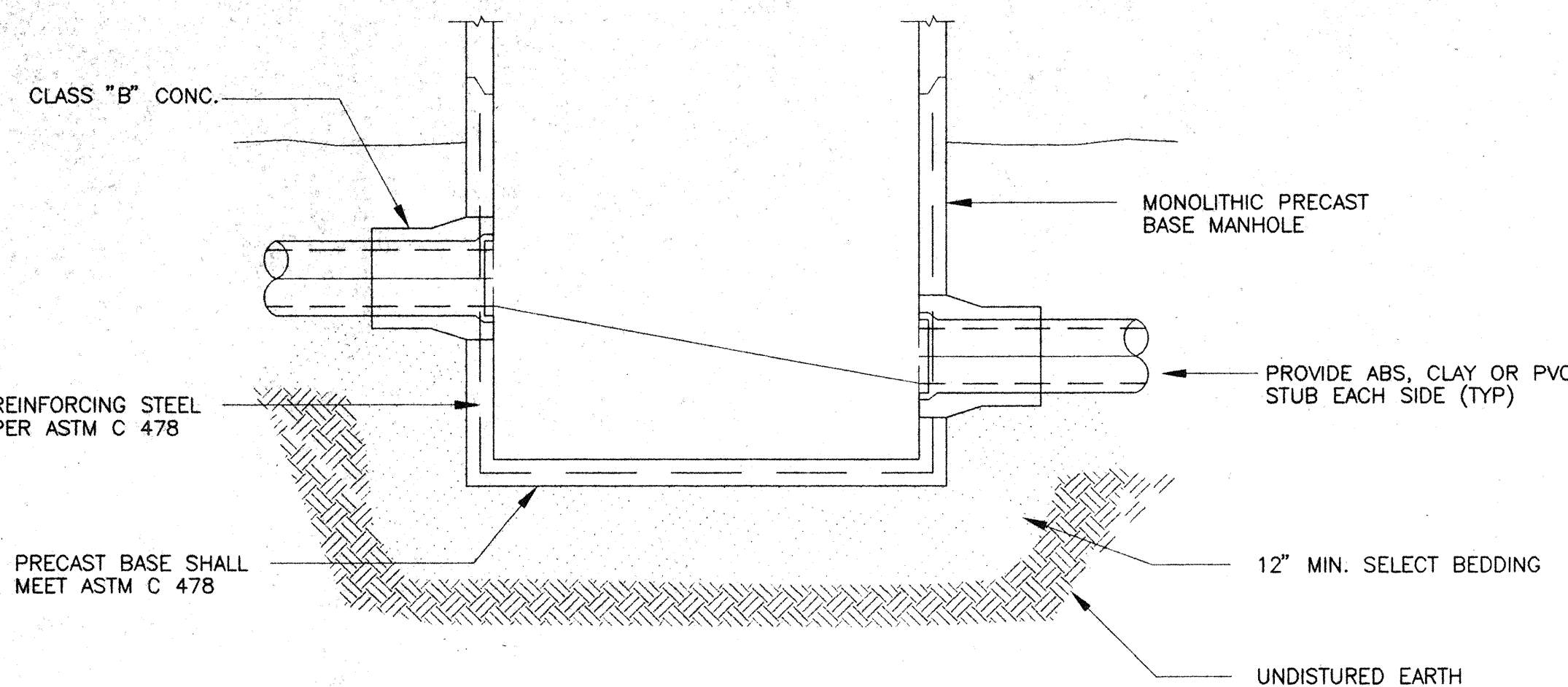
Drawing No.  
6 of 7

C:\JULY\PROJ\TUE FEB 28 15 11 10 1995 R. DAVID BATES - STERLING CONSULTANTS, INC



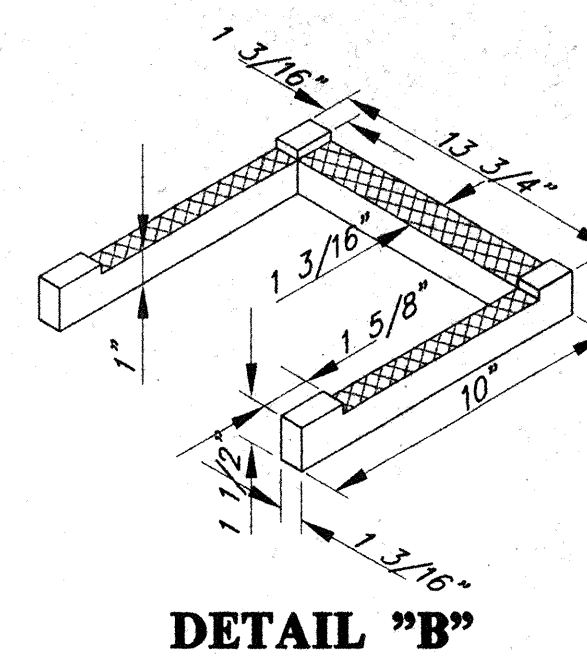
**SECTION OF PRECAST CONCRETE MANHOLE**

N.T.S.

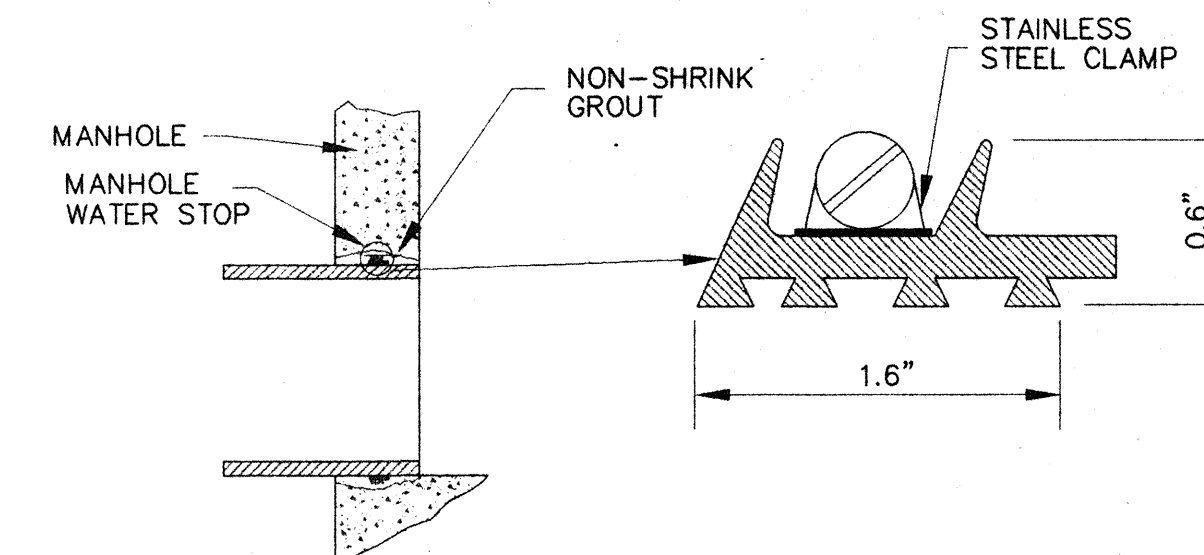


**TYPICAL DETAILS FOR ABS, CLAY OR PVC PIPE  
MONOLITHIC PRECAST BASE MANHOLE**

N.T.S.

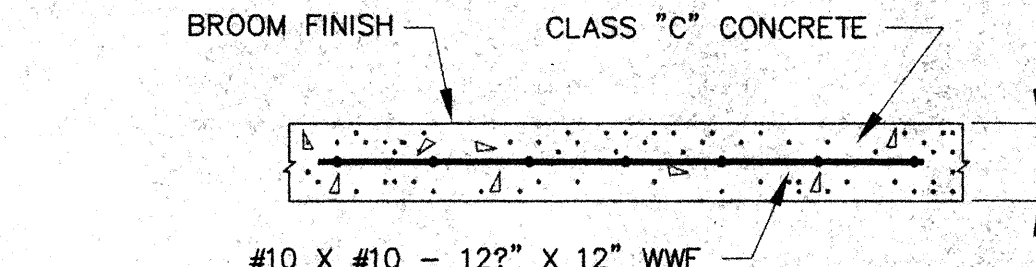


**DETAIL "B"**

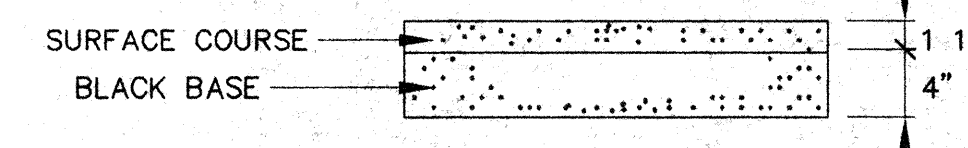


**TYPICAL MANHOLE WATER STOP  
FOR ABS, CLAY OR PVC PIPE**

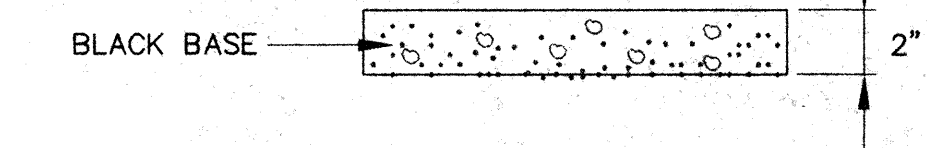
EXISTING AND "STRADDLE" MANHOLES  
N.T.S.



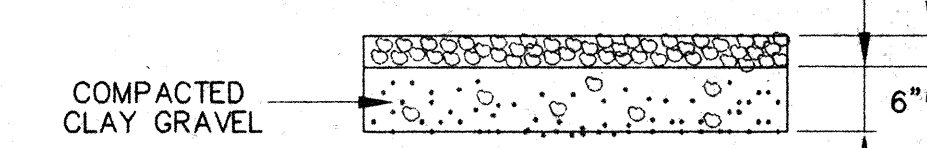
**TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR**



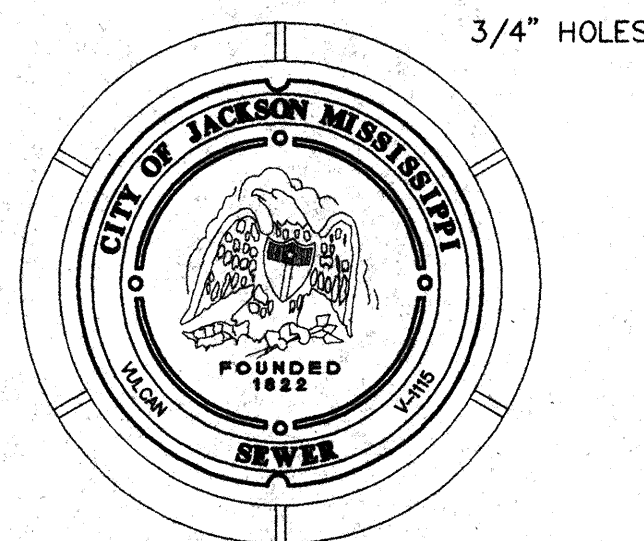
**TYPICAL ASPHALT STREET REPAIR**



**TYPICAL ASPHALT DRIVEWAY REPAIR**

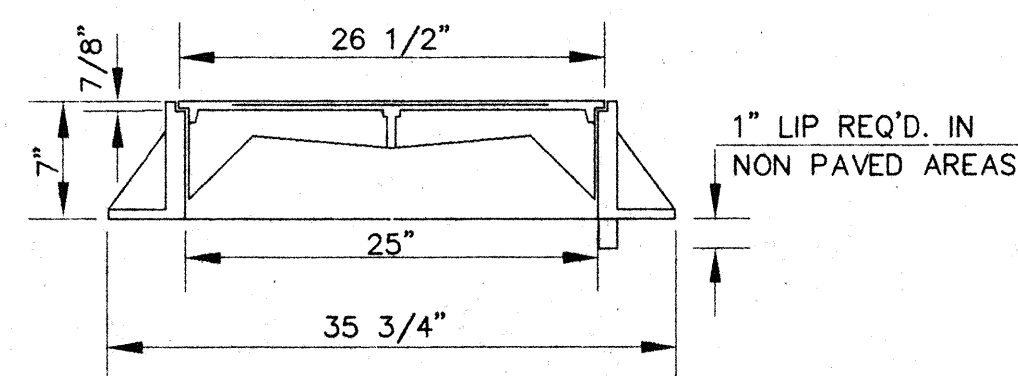


**TYPICAL GRAVEL DRIVEWAY REPAIR**



**TOP PLAN OF COVER**

3/4" HOLES

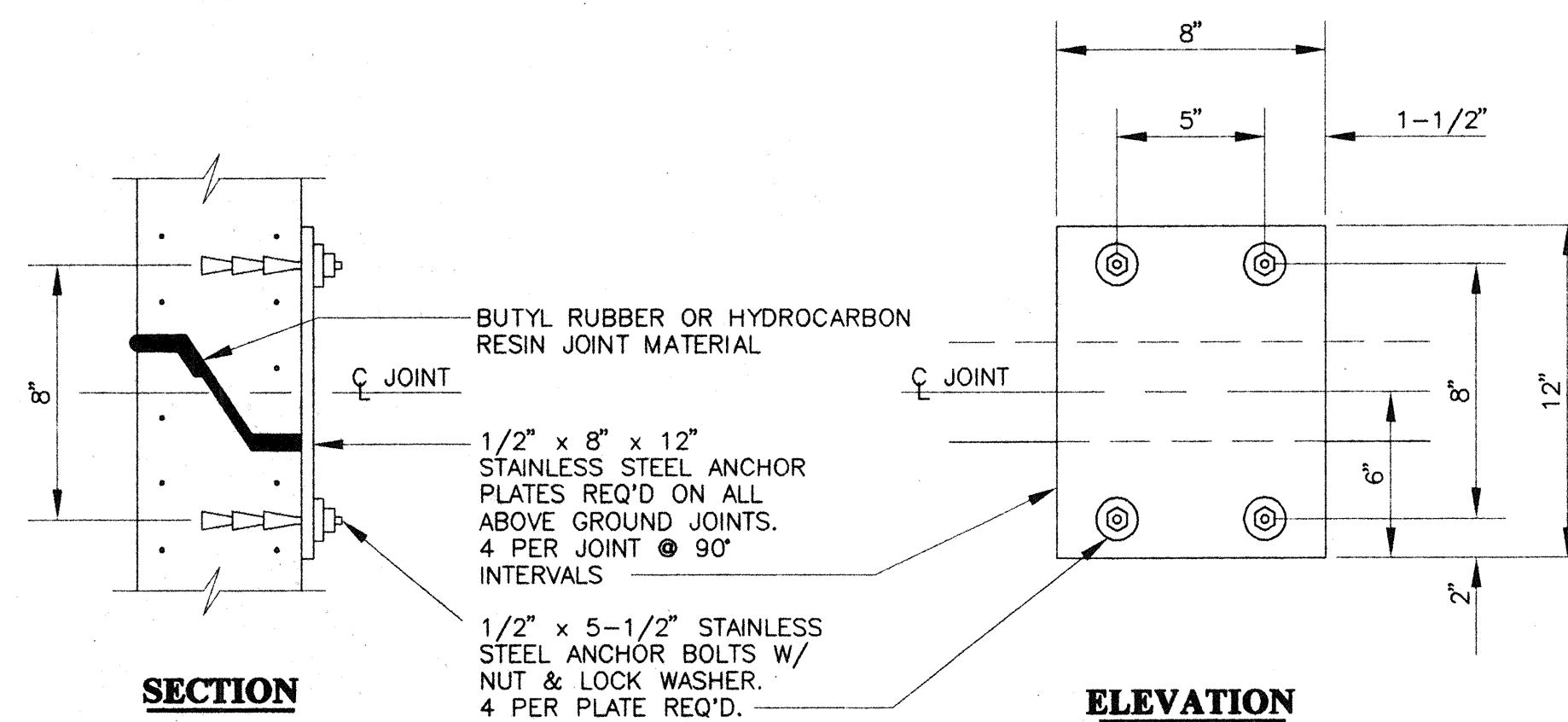


**SECTION**

FRAME & COVER WEIGHT 420 LBS.

**STANDARD MANHOLE FRAME AND COVER**

N.T.S.

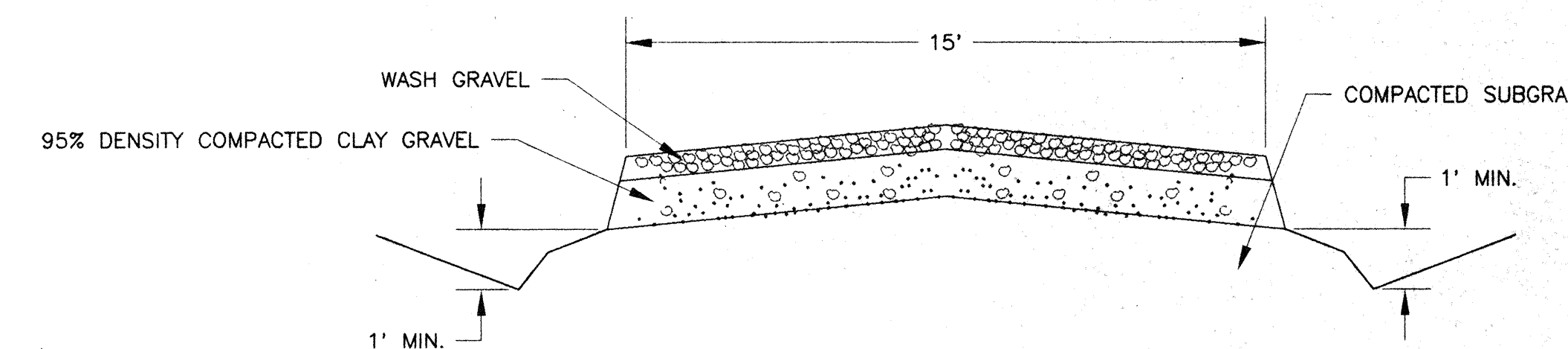


**SECTION**

**ELEVATION**

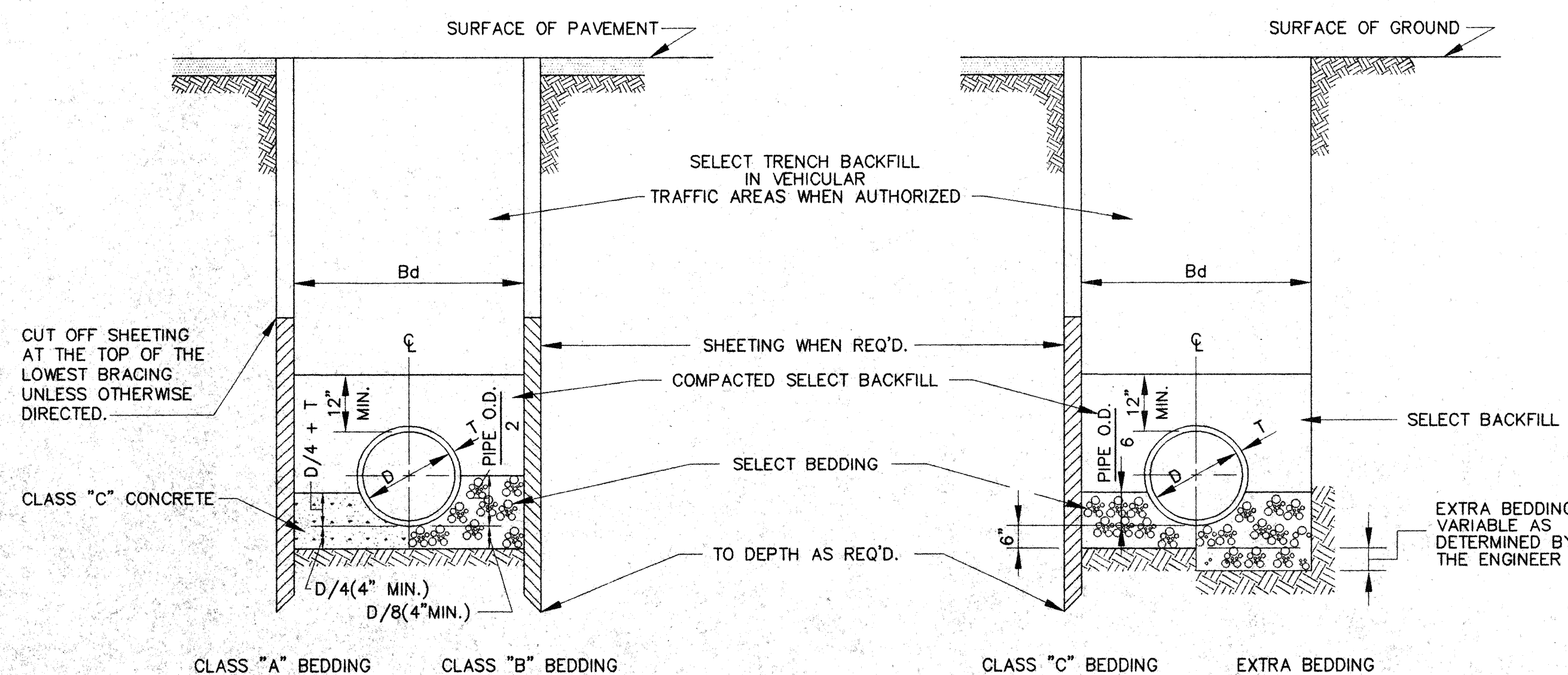
**TYPICAL PRECAST CONCRETE  
MANHOLE JOINT DETAIL**

N.T.S.



**TYPICAL ACCESS DRIVE SECTION**

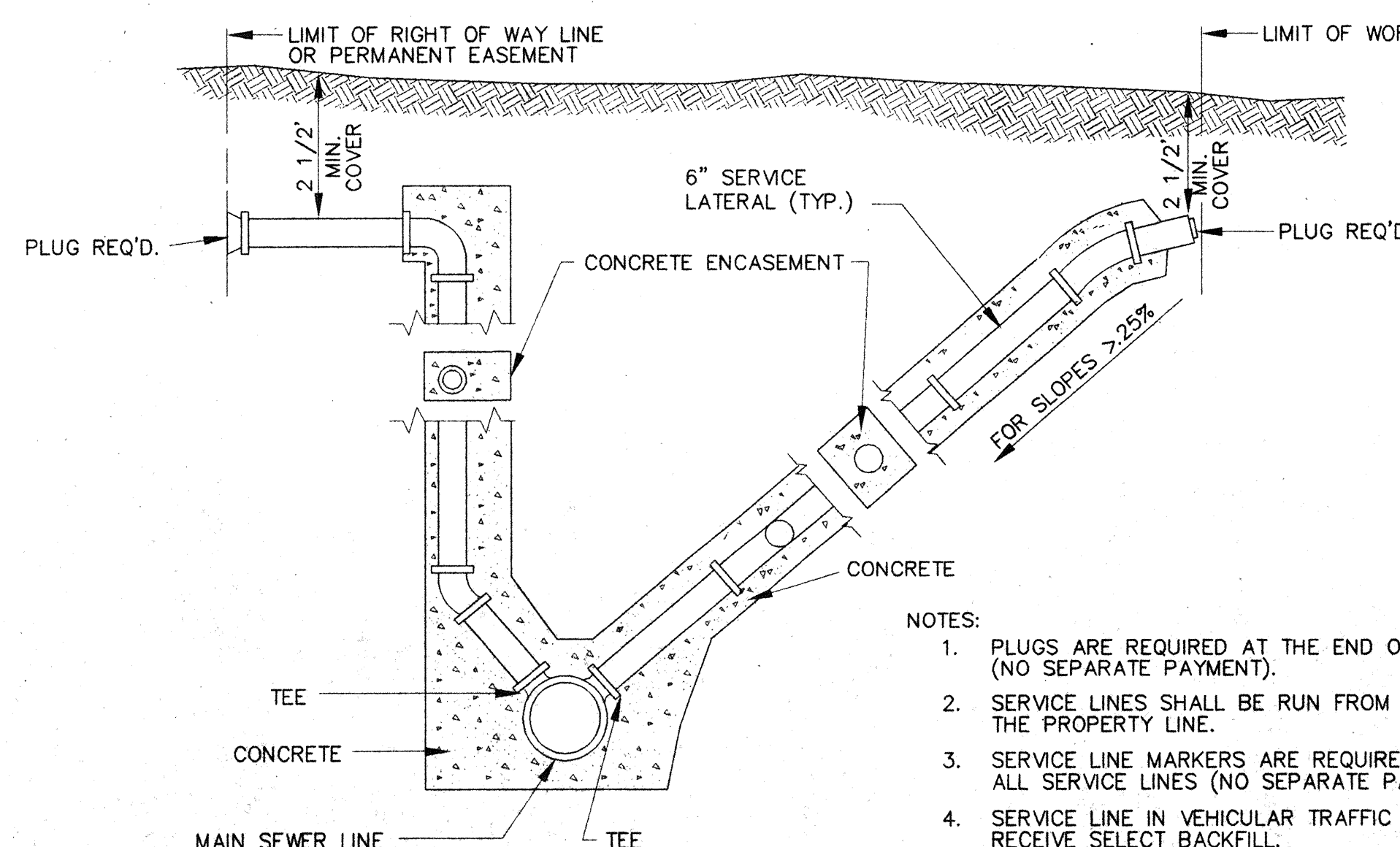
N.T.S.



CLASS "B" BEDDING REQUIRED FOR ABS PIPE.  
CLASS "C" BEDDING REQUIRED FOR DUCTILE IRON,  
CONCRETE & VITRIFIED CLAY PIPE.

**TYPICAL TRENCH DETAILS**

N.T.S.

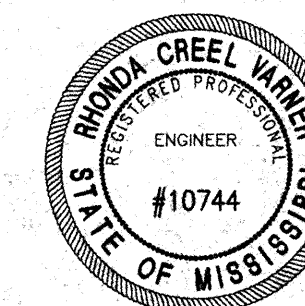


**SERVICE CONNECTION FOR DEEP SEWER**

N.T.S.

NOTES:

1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
2. SERVICE LINES SHALL BE RUN FROM THE SEWER LINES TO THE PROPERTY LINE.
3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL RECEIVE SELECT BACKFILL.
5. WHEN MINIMUM COVER CAN NOT BE OBTAINED DUCTILE IRON PIPE SHALL BE REQUIRED.



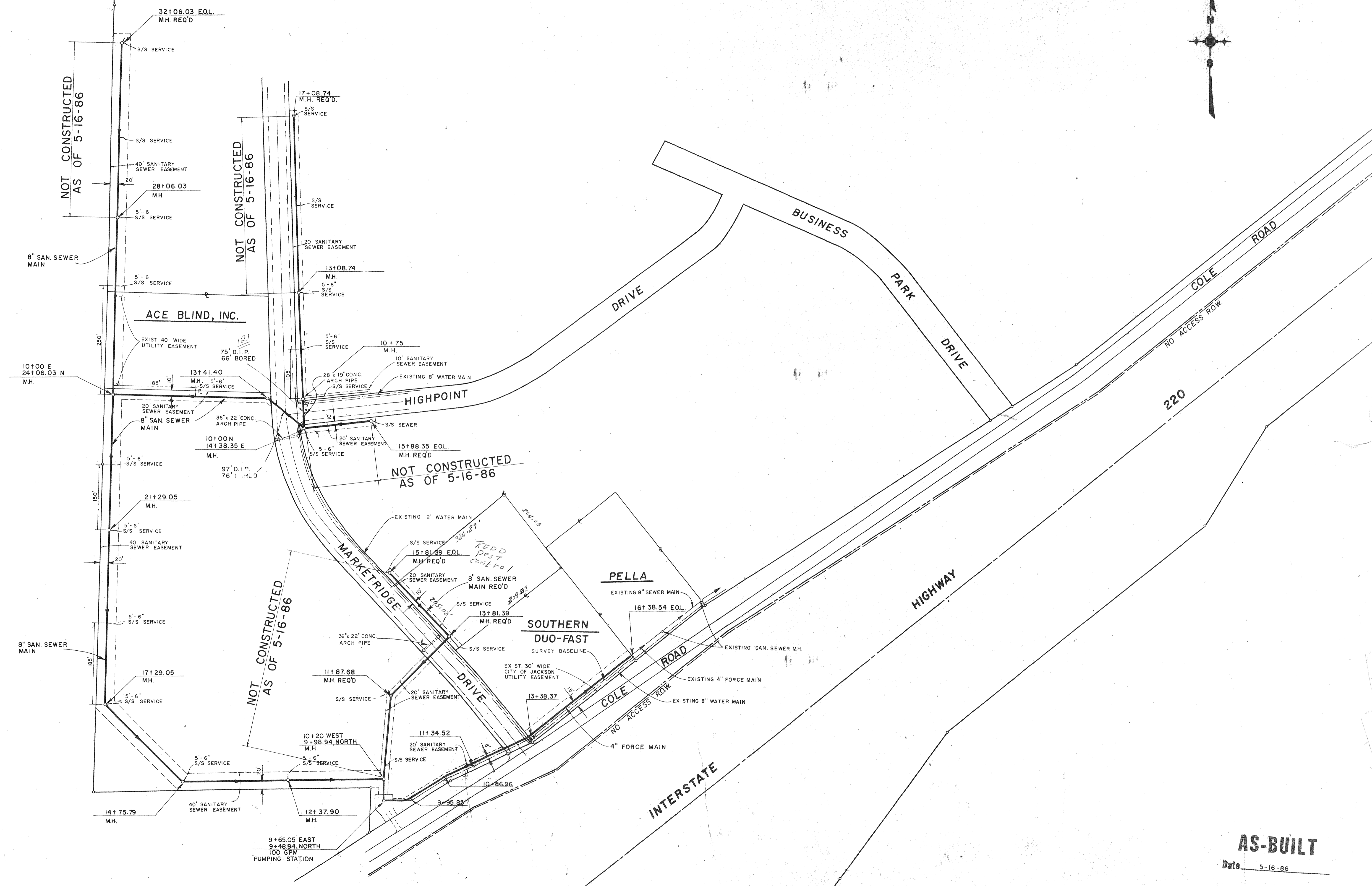
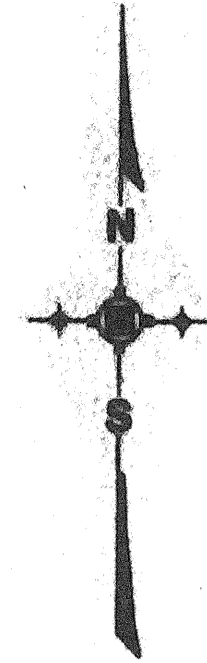
**COLE ROAD SEWER EXTENSION  
CITY PROJECT NO. 310.5**

**MISCELLANEOUS DETAILS**

**CITY OF JACKSON  
MADISON COUNTY, MISSISSIPPI**

DESIGN: R.V.	DATE: 01/28		DRAWING NO.
DRAWN: R.D.B.	DATE: 01/28		7 OF 7
CHECKED: R.V.	DATE: 01/28		
SCALE: AS SHOWN			

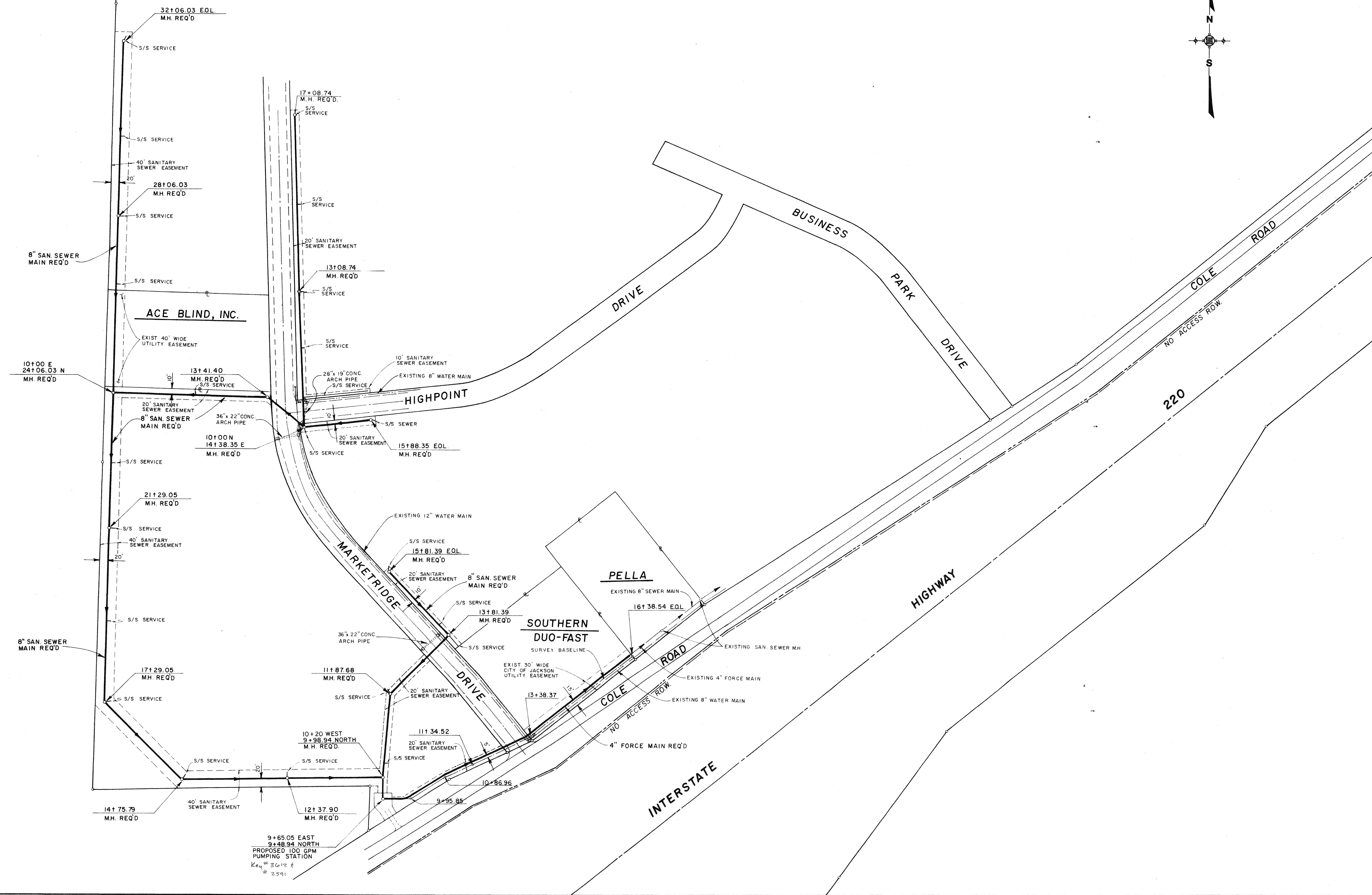
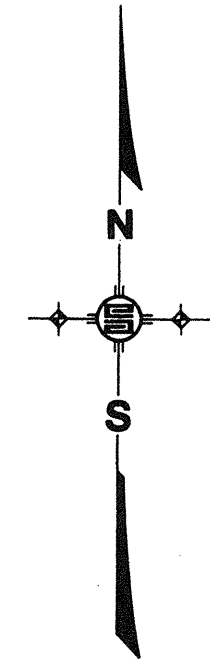




**AS-BUILT**

Date 5-16-86

DESIGNED J.L.J.		DATE 1-20-86				<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI				PROJECT LAYOUT		PROJECT NO 520	
DRAWN J.E.M.		SCALE 1" = 100'								CONTRACT		SHEET 1	
NO. DATE		NATURE REVISIONS		BY APP'D.		CHECKED J.L.J.		JOB NO. 7200.9		SANITARY SEWER EXTENSIONS 220 BUSINESS PARK		Date 8-11-13 (5)	

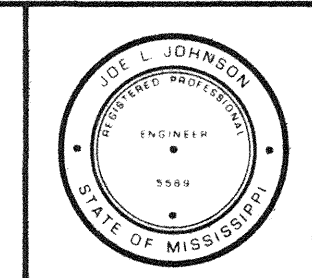
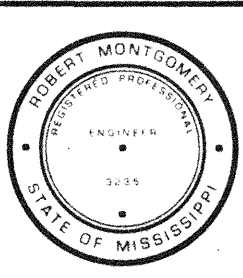


NO.	DATE	NATURE	BY	APP'D
		REVISIONS		

DESIGNED	DATE
J.L.J.	1-20-86
DRAWN	SCALE
J.E.M.	1" = 100'
CHECKED	JOB NO.
J.L.J.	7200.9



**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



**PROJECT LAYOUT**  
**SANITARY SEWER EXTENSIONS**  
**220 BUSINESS PARK**

PROJECT NO	520
CONTRACT	SHEET
	1

8/11-1613 (5)

Letover Book 11, Page 41-42

Letover Book 11, Page 41-43

BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
136.21' LT. OF 10+58.78 OF  
MARKET RIDGE DRIVE

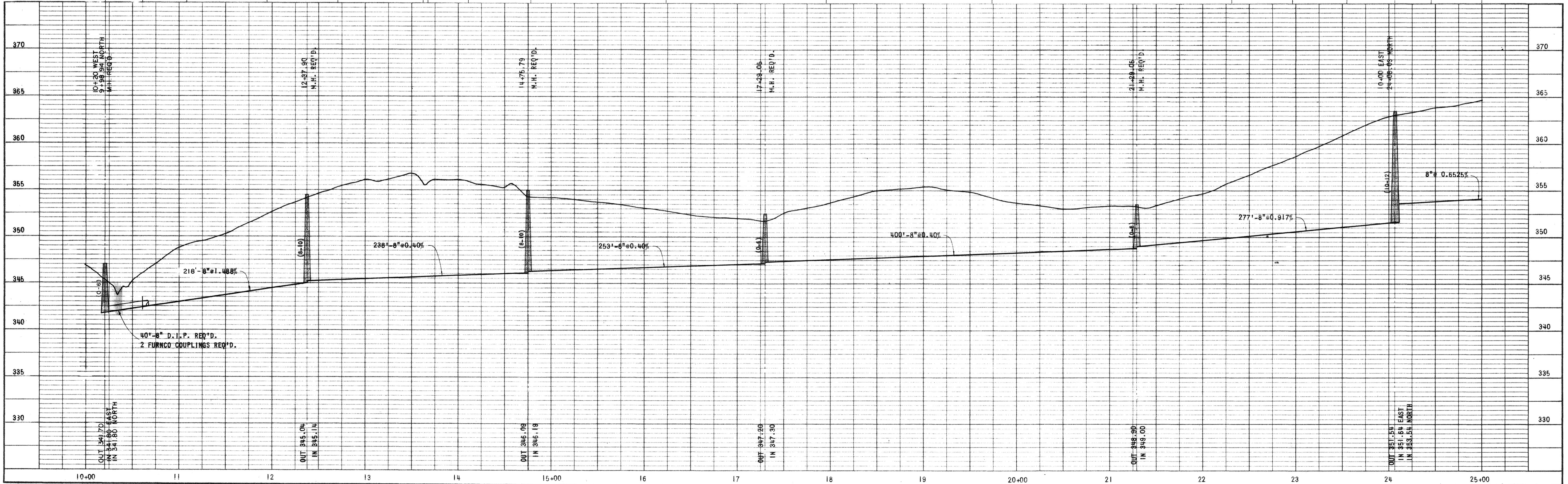
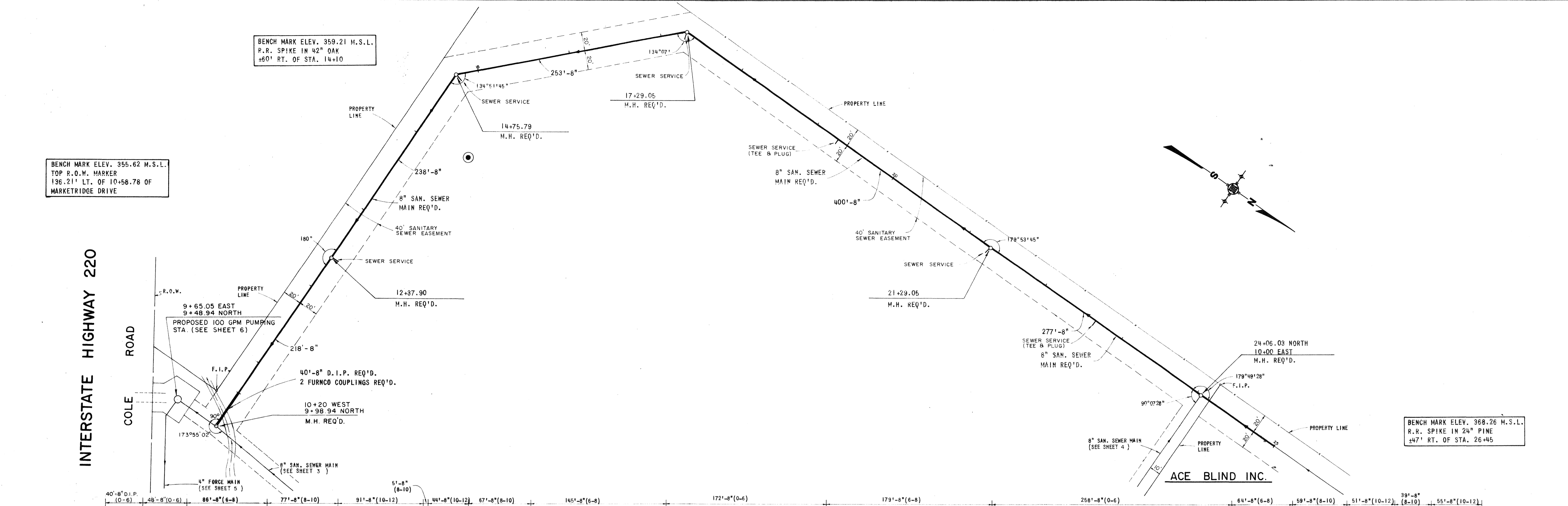
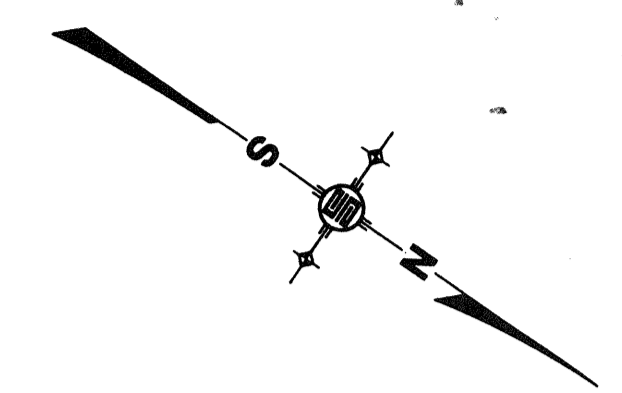
BENCH MARK ELEV. 359.21 M.S.L.  
P.R. SPIKE IN 4" OAK  
460' RT. OF STA. 14+10

BENCH MARK ELEV. 368.26 M.S.L.  
R.R. SPIKE IN 2" PINE  
447' RT. OF STA. 26+45

INTERSTATE HIGHWAY 220

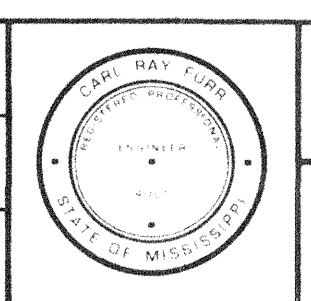
COLE ROAD

ACE BLIND INC.

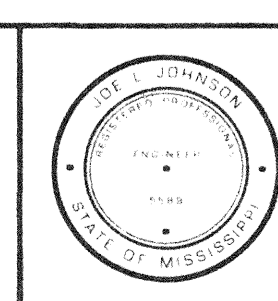
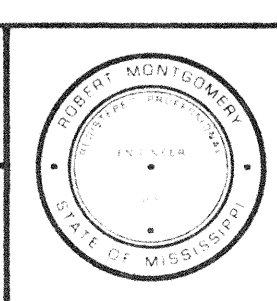


NO.	DATE	NATURE	BY	APP'D.

DESIGNED	DATE
J.L.J.	1-20-86
DRAWN	SCALE
M.C.	1" = 50'
CHECKED	JOB NO.
J.L.J.	7200 9



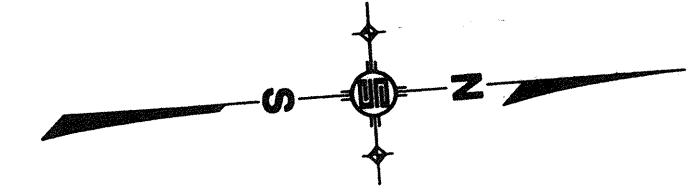
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



**PLAN - PROFILE**  
**SANITARY SEWER EXTENSIONS**  
**220 BUSINESS PARK**

PROJECT NO.	520
CONTRACT	
SHEET	2

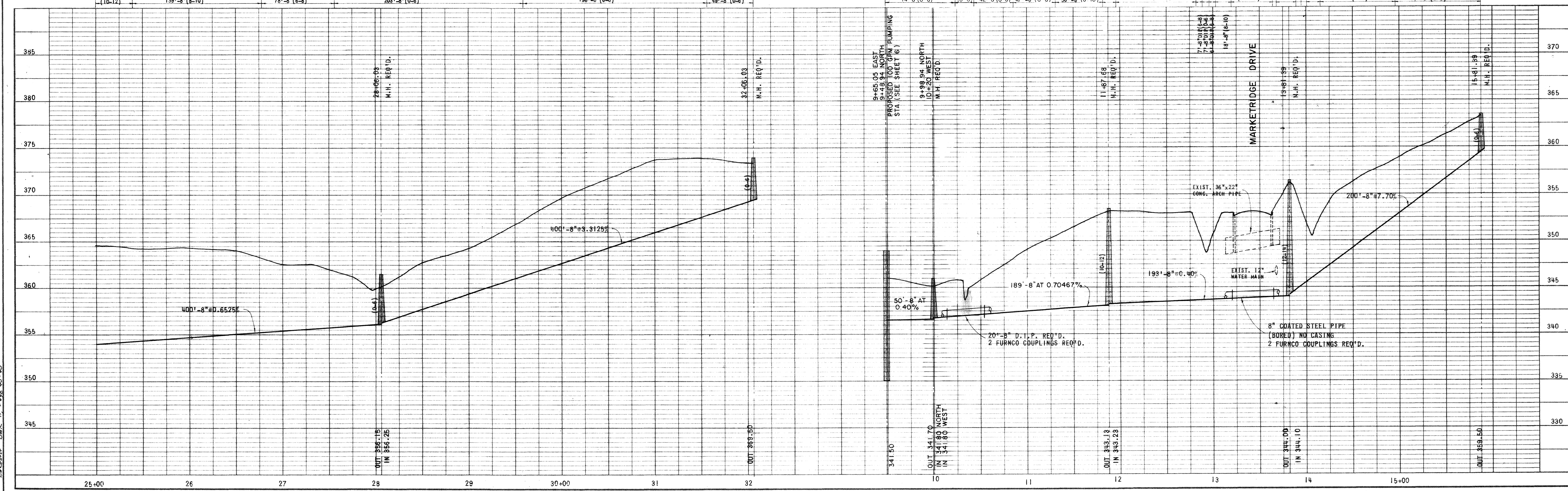
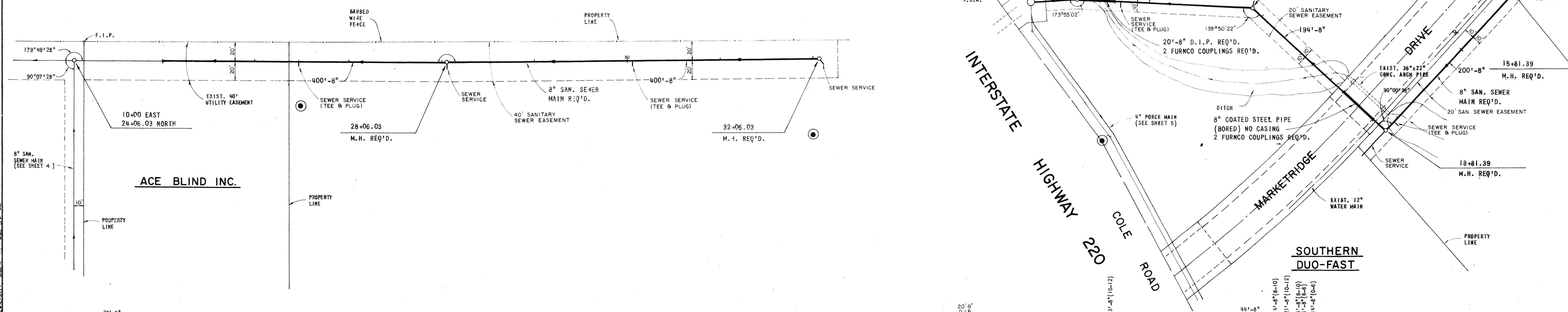
9m-1613's



BENCH MARK ELEV. 368.26 M.S.L.  
R.R. SPIKE 1" 2 1/4" OAK  
±47' RT. OF STA. 26+45

BENCH MARK ELEV. 376.07 M.S.L.  
R.R. SPIKE 1" 1 3/4" OAK  
±82' RT. OF STA. 32+00

BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
136.21' LT. OF STA. 10+58.78  
MARKETRDGE DRIVE



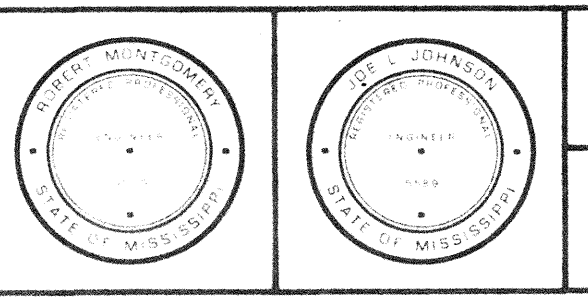
L&L Assoc. Inc. 11/28/86

Page 49-20  
L&L Assoc. Inc. 11/28/86

NO.	DATE	NATURE	BY	APP'D.	CHECKED	JOB NO.
		REVISIONS			J.L.J.	7200.9

DESIGNED J.L.J.	DATE 1-20-86
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON/PEARL, MISSISSIPPI



PLAN - PROFILE

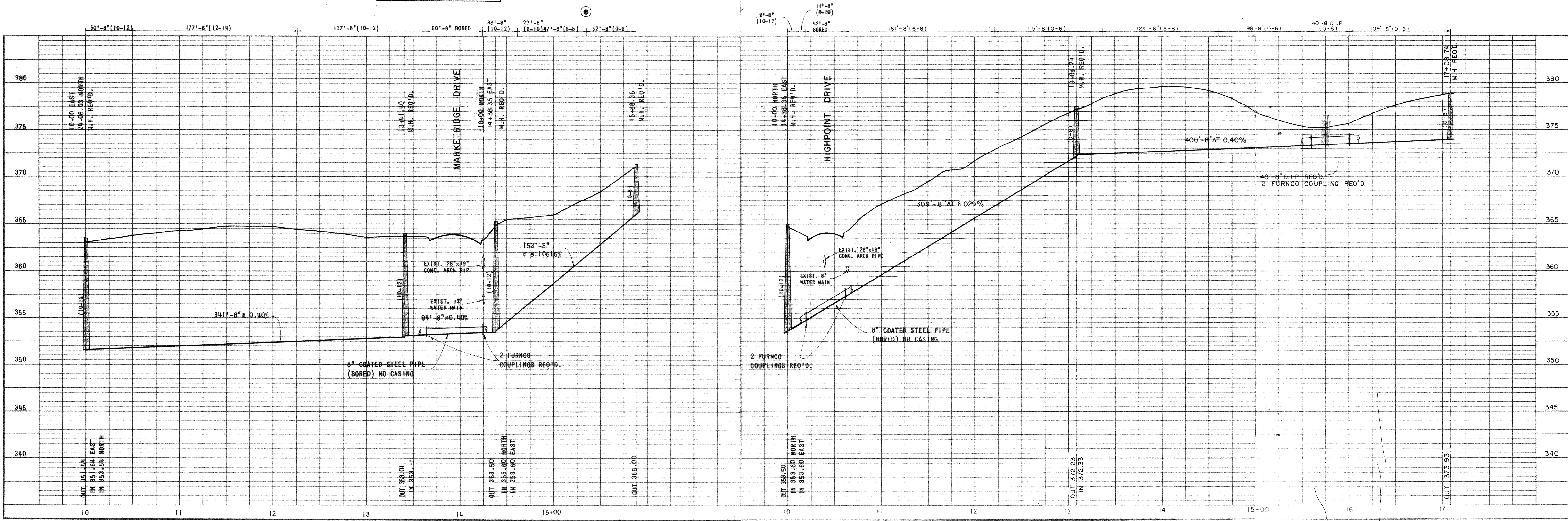
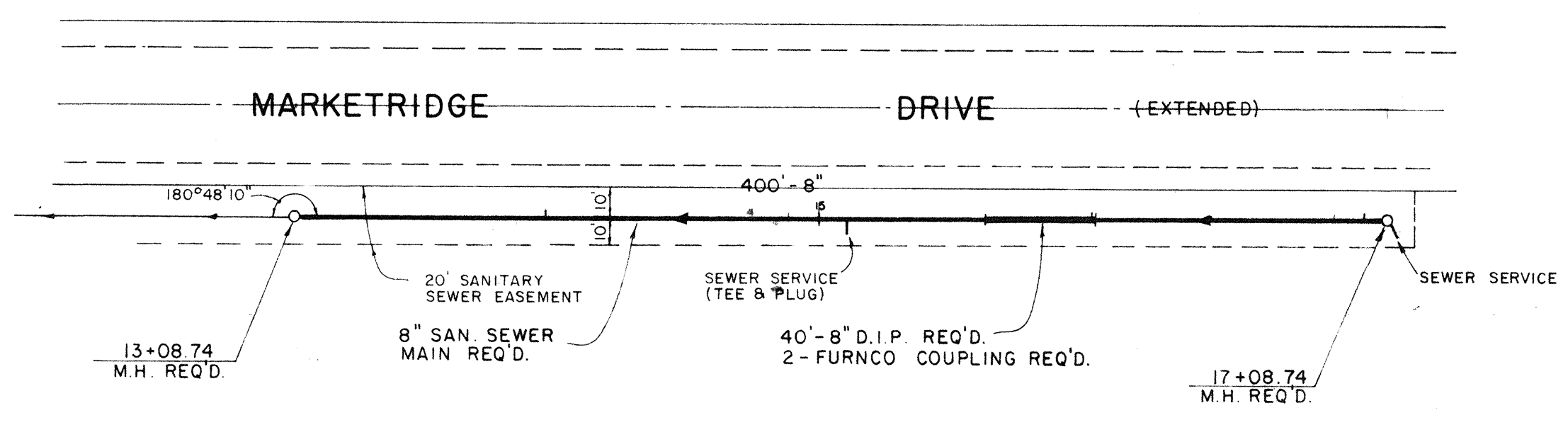
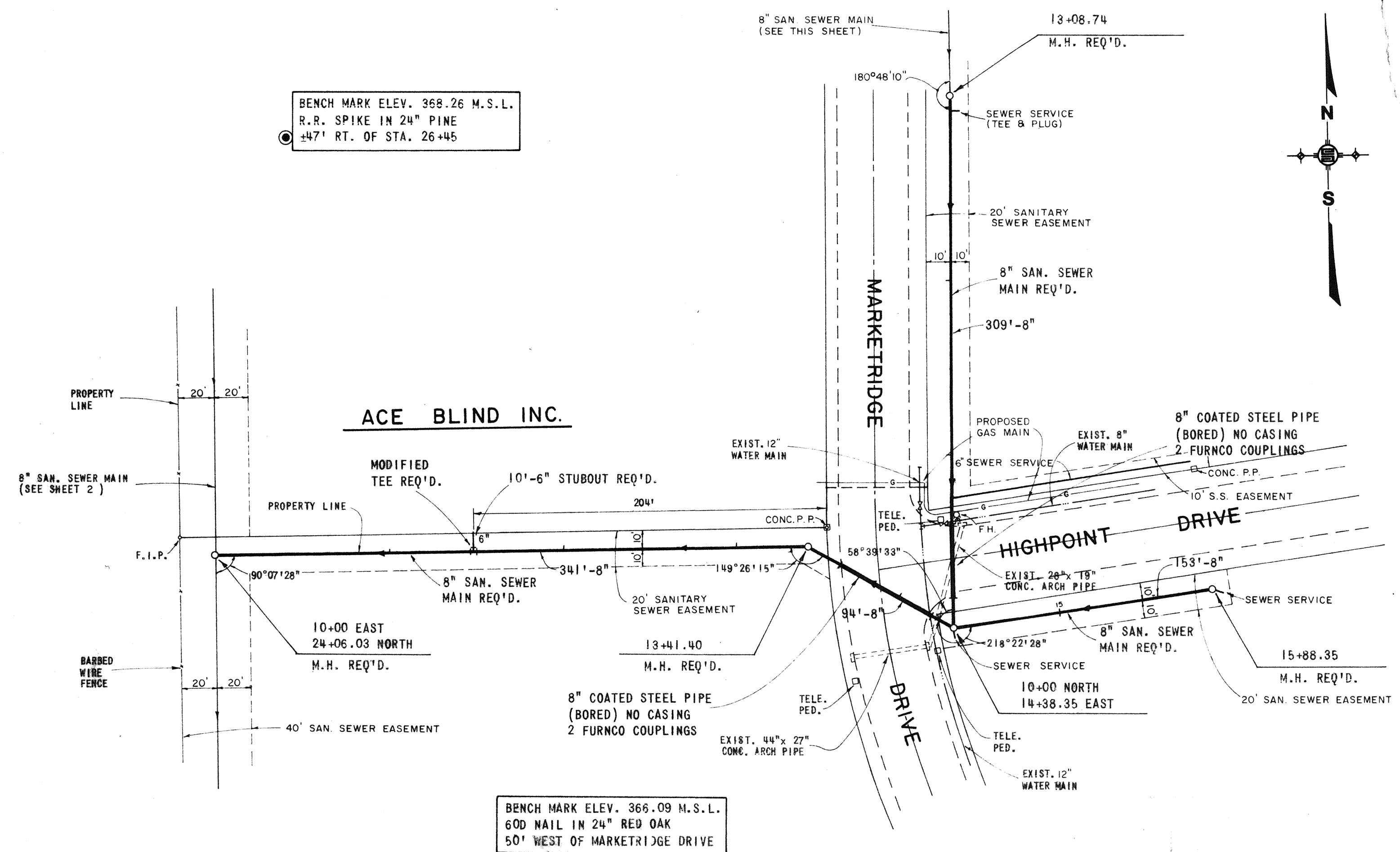
**SANITARY SEWER EXTENSIONS  
220 BUSINESS PARK**

PROJECT NO. <b>520</b>
CONTRACT SHEET <b>3</b>



Latterer Book 11, Page 46-47

Latterer Book 11, Page 46-47 (16)

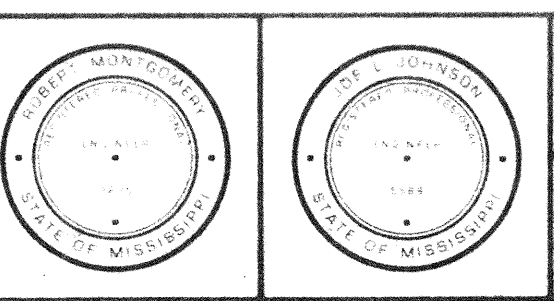


NO.	DATE	NATURE	BY	APP'D.

DESIGNED J.L.J.	DATE 1-20-86
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI



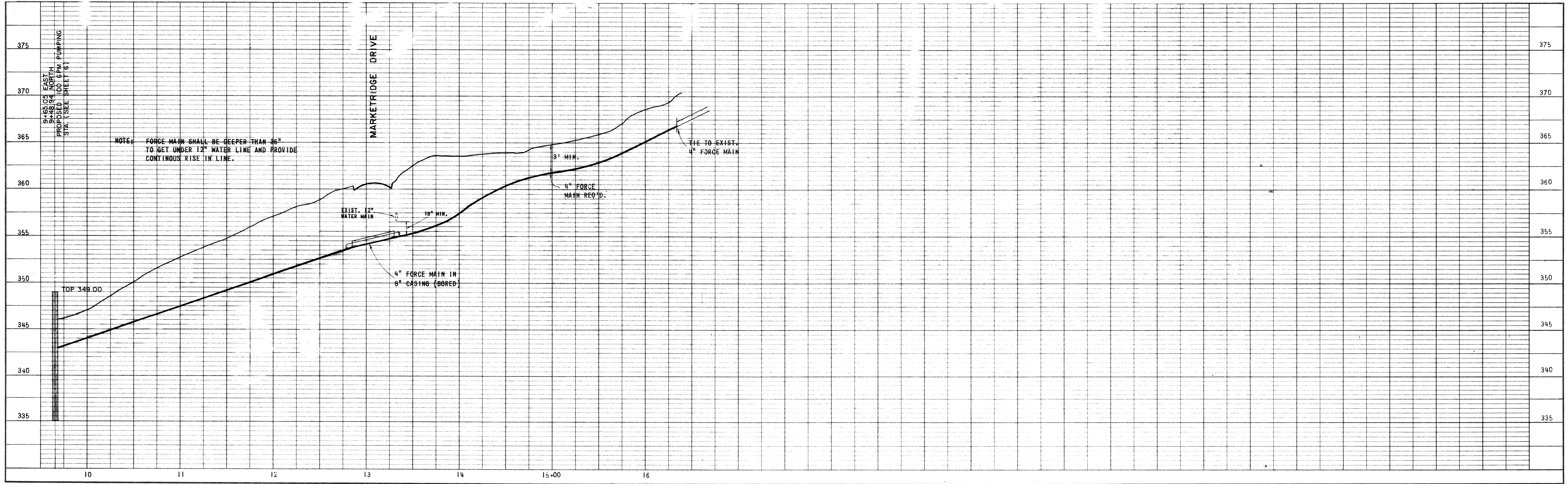
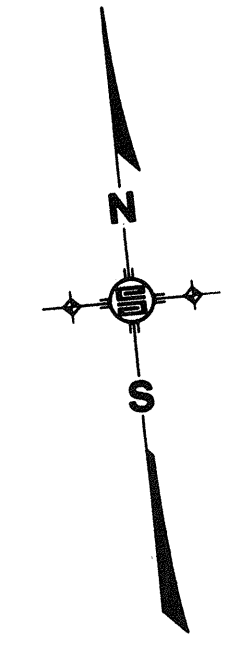
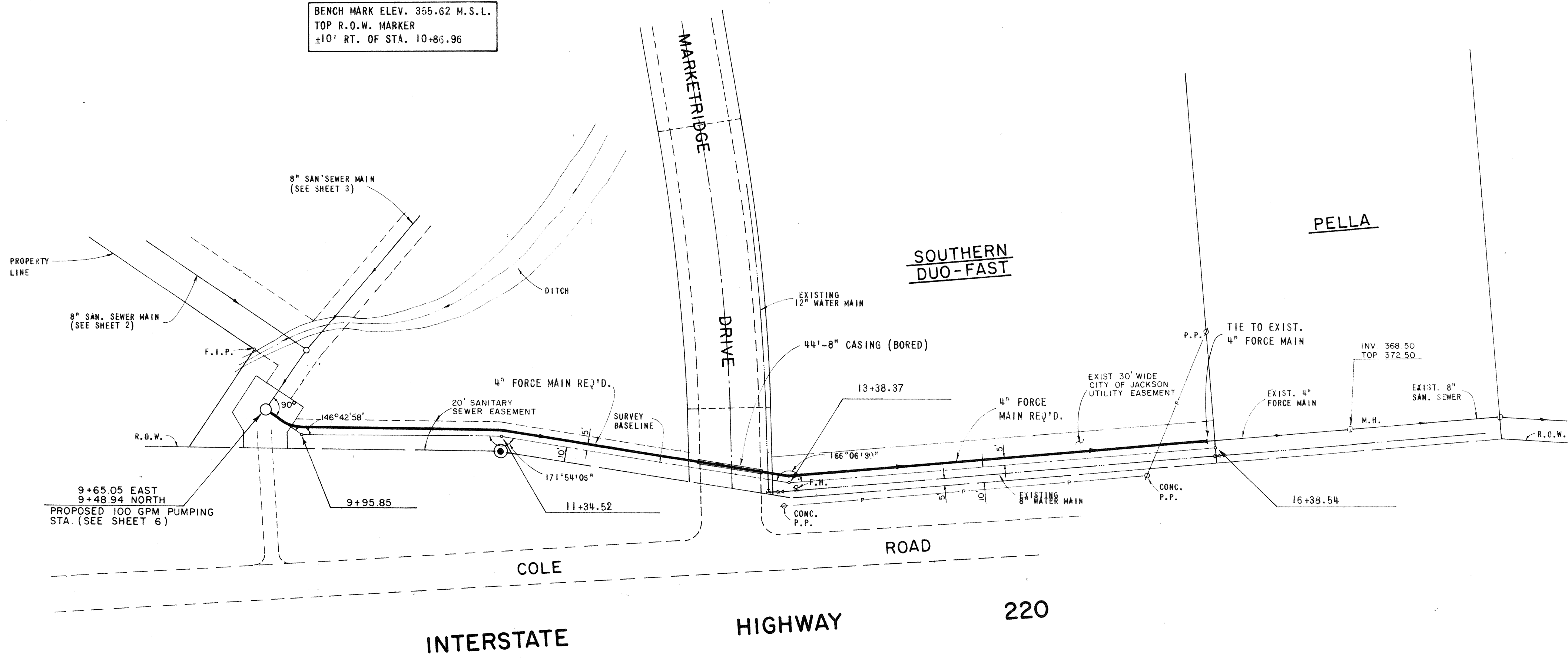
**PLAN - PROFILE**

**SANITARY SEWER EXTENSIONS**  
220 BUSINESS PARK

PROJECT NO. <b>520</b>
CONTRACT SHEET <b>4</b>

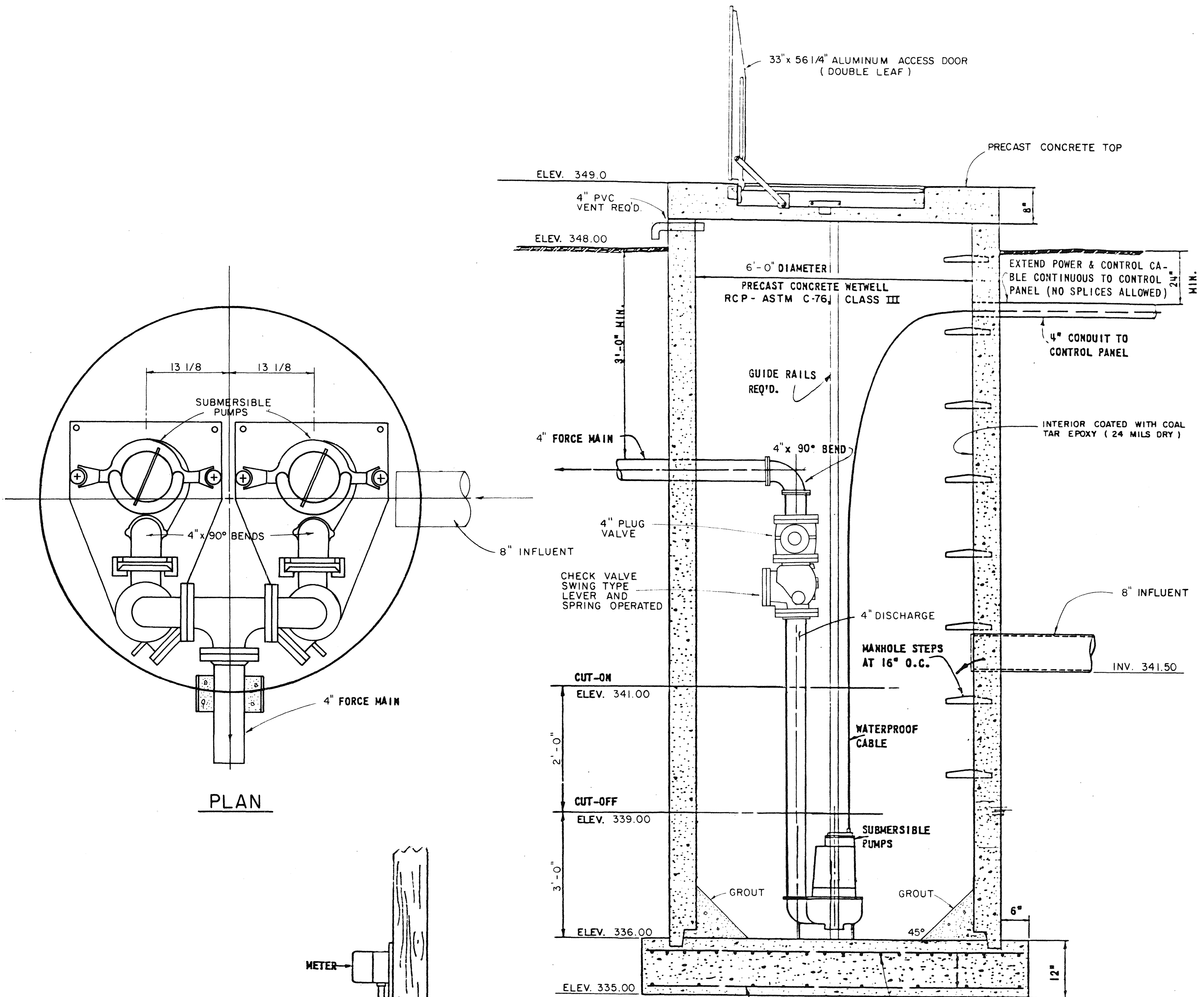
CM-1613 (51)

BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
±10' RT. OF STA. 10+85.96



Calaveras Book 1 Page 51-52  
 Calaveras Book 1 Page 51-52

				DESIGNED J.L.J.	DATE 1-20-86		<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI				PLAN - PROFILE		PROJECT NO. 520
				DRAWN M.C.	SCALE 1" = 50'						SANITARY SEWER EXTENSIONS 220 BUSINESS PARK		CONTRACT
NO.	DATE	NATURE REVISIONS	BY	APP'D	CHECKED J.L.J.	JOB NO. 7200.9							



PLAN

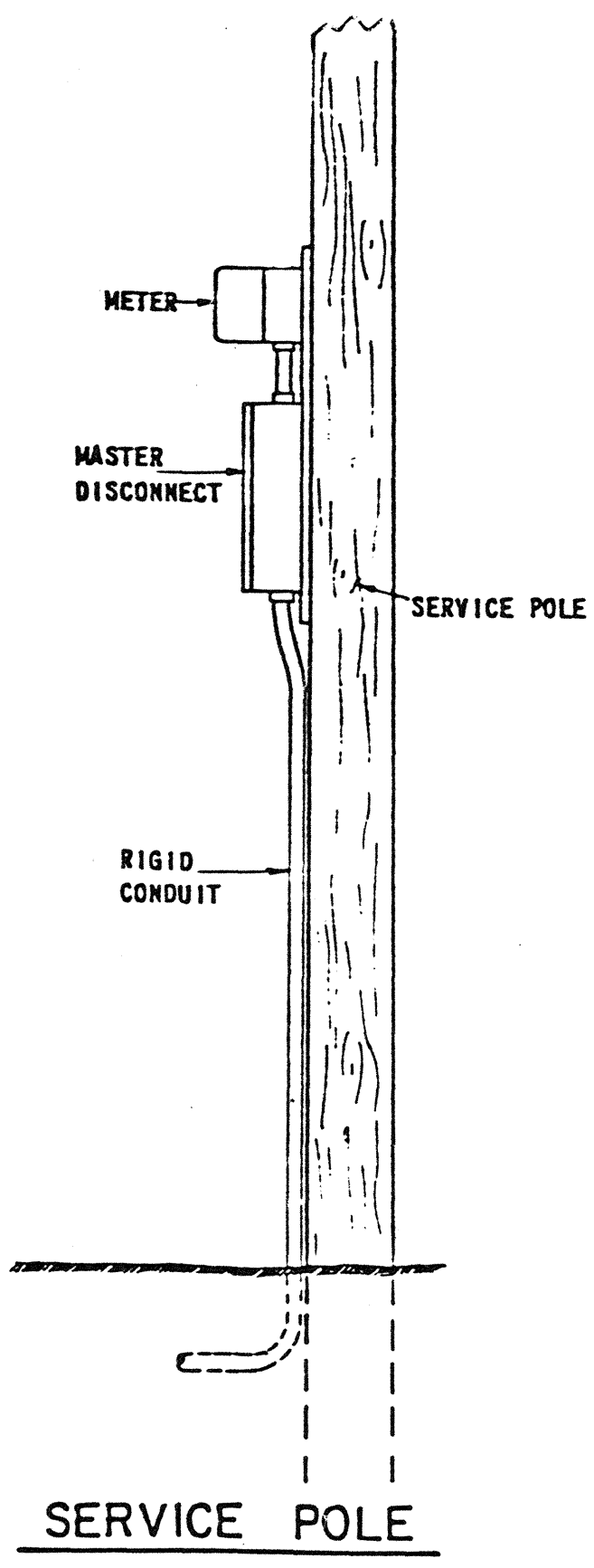
ELEVATION

DESIGN DATA

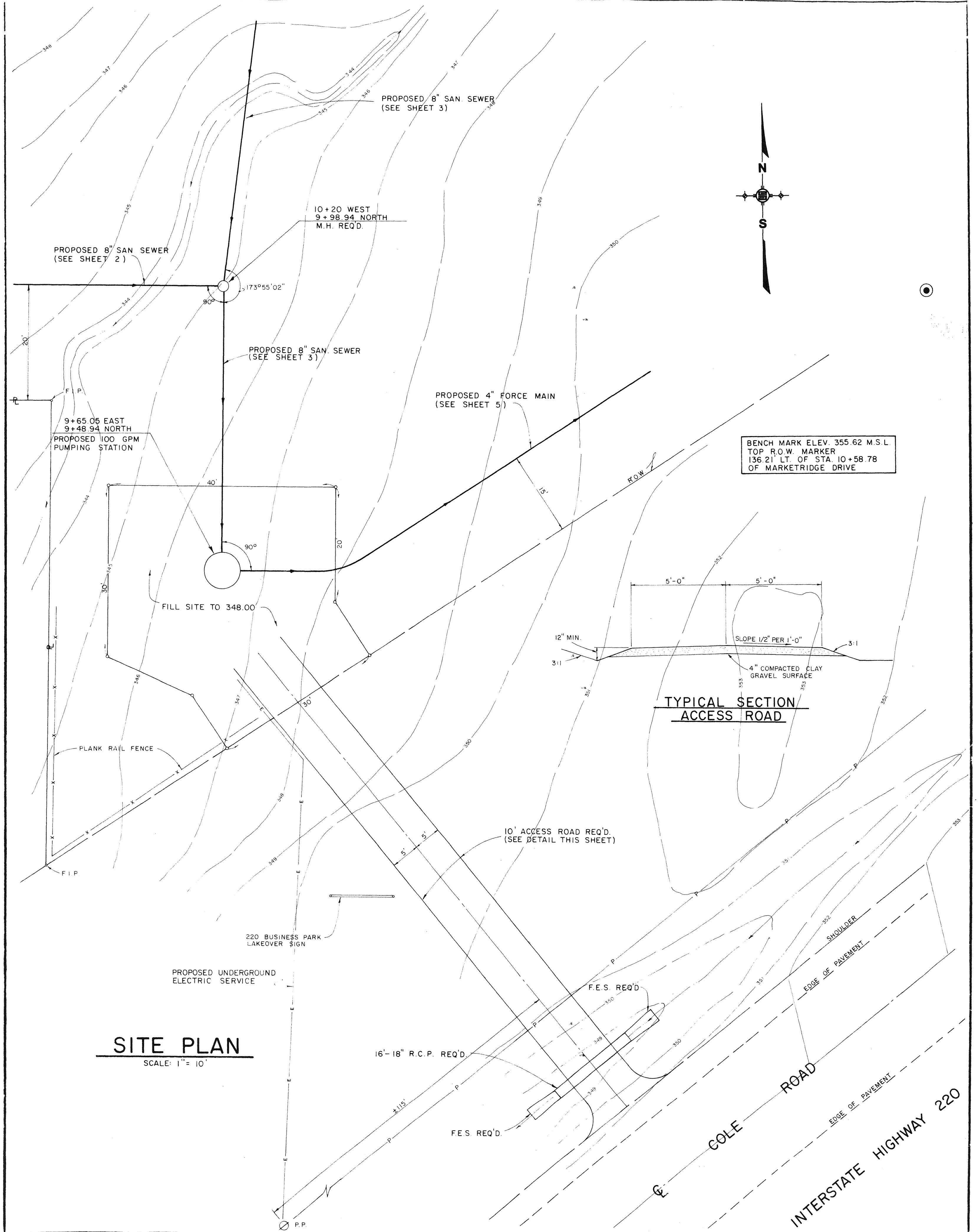
PUMPS: 2 - 4" DISCHARGE SUBMERSIBLE PUMPS (2 1/2" SOLIDS)  
 RATING: 100 G.P.M. AT 36' TOTAL DYNAMIC HEAD  
 HORSEPOWER: MAX. 3 (NON-OVERLOADING ON PUMP CURVE)  
 MOTOR SPEED: 1750 RPM MAX.  
 IMPELLER: 6 1/4" DIA.  
 POWER REQUIREMENTS: 1 PHASE, 60 CYCLE, 230 VOLTS  
 CONTROLS: MERCURY TUBE SWITCHES  
 750 L.F. 4" FORCE MAIN

NOTES:

1. A MASTER DISCONNECT SWITCH SHALL BE FURNISHED.
2. CONTROL PANEL SHALL BE NEMA-3R, WITH CIRCUIT BREAKERS, MAGNETIC STARTER, HAND-OFF AUTO SWITCHES, RUN LIGHT FOR EACH PUMP AND A RELAY ALTERNATING CIRCUIT.
3. FURNISH A FLASHING ALARM LIGHT ON CONTROL PANEL.
4. PUMPS SHALL BE FURNISHED WITH DOUBLE SEALS AND A SEAL FAILURE LIGHT IN THE CONTROL PANEL.
5. SERVICE POLE, WEATHERHEAD, METER BASE, MASTER DISCONNECT, AND RIGID CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



SERVICE POLE



SITE PLAN

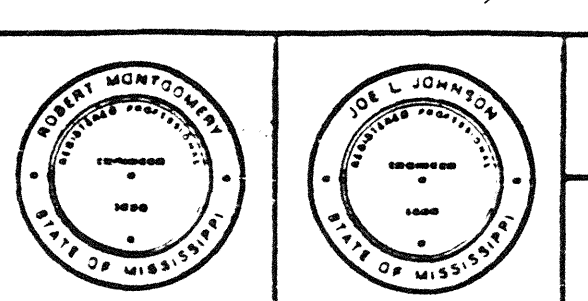
SCALE: 1" = 10'

TYPICAL SECTION ACCESS ROAD

NO.	DATE	NATURE	BY	APP'D.	CHECKED	JOB NO.
		REVISIONS				7200.9

DESIGNED	DATE
J.L.J.	1-20-86
DRAWN	SCALE
M.C.	
CHECKED	JOB NO.
	7200.9

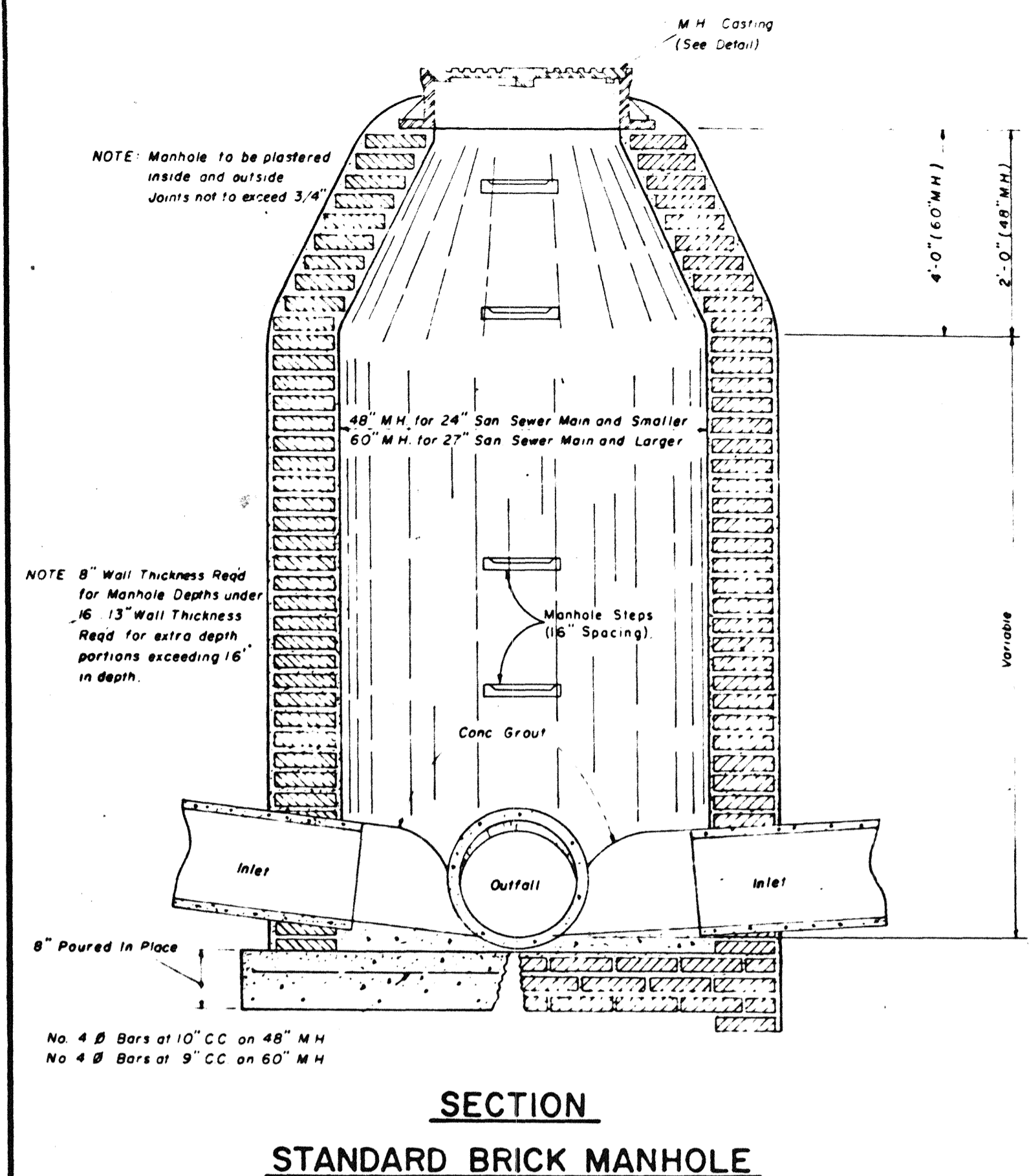
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI



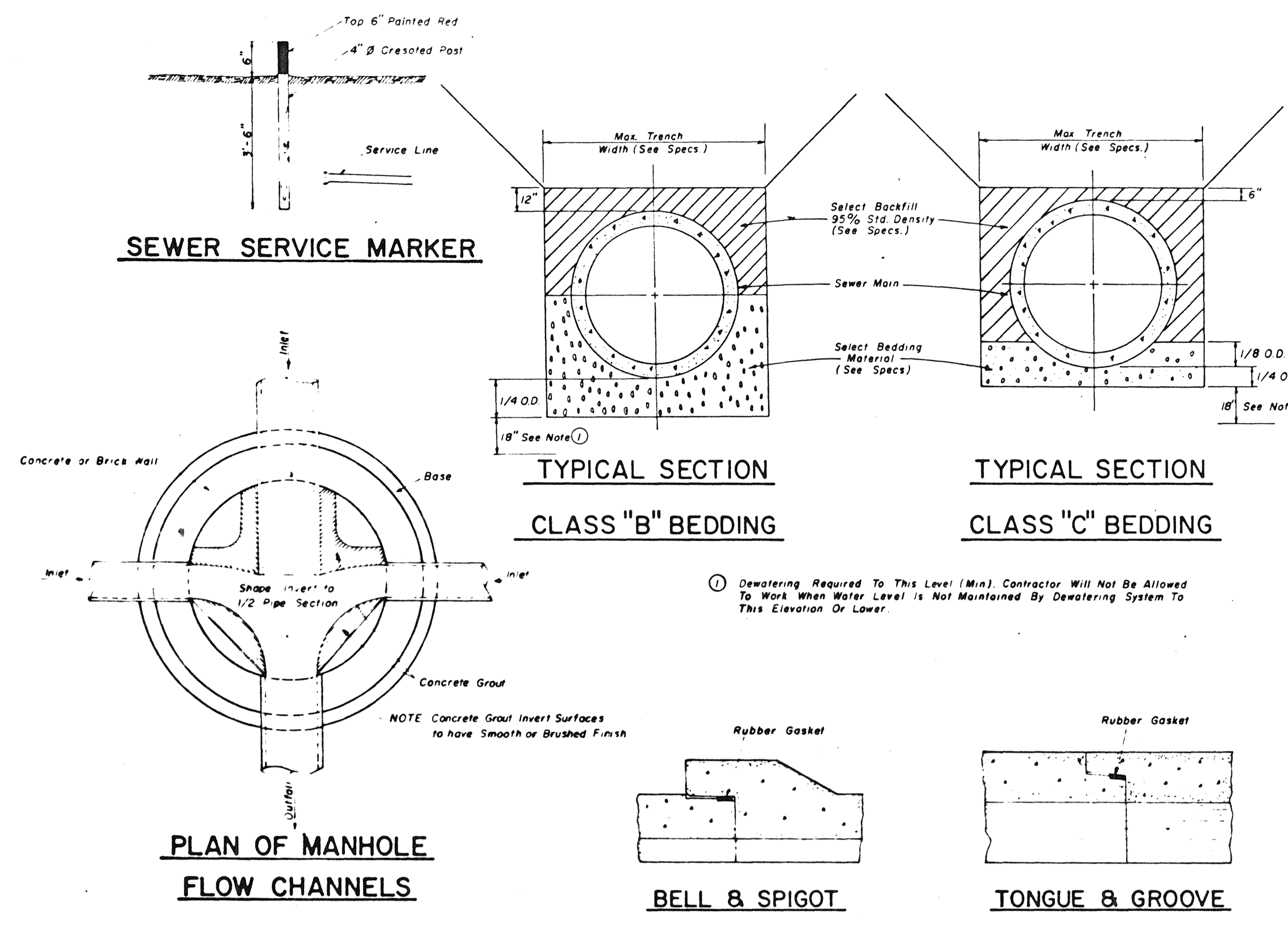
**PUMPING STATION DETAILS**  
**SANITARY SEWER EXTENSIONS**  
 220 BUSINESS PARK

PROJECT NO	520
CONTRACT	
SHEET	6

8-11-13 (31)



**SECTION  
STANDARD BRICK MANHOLE**



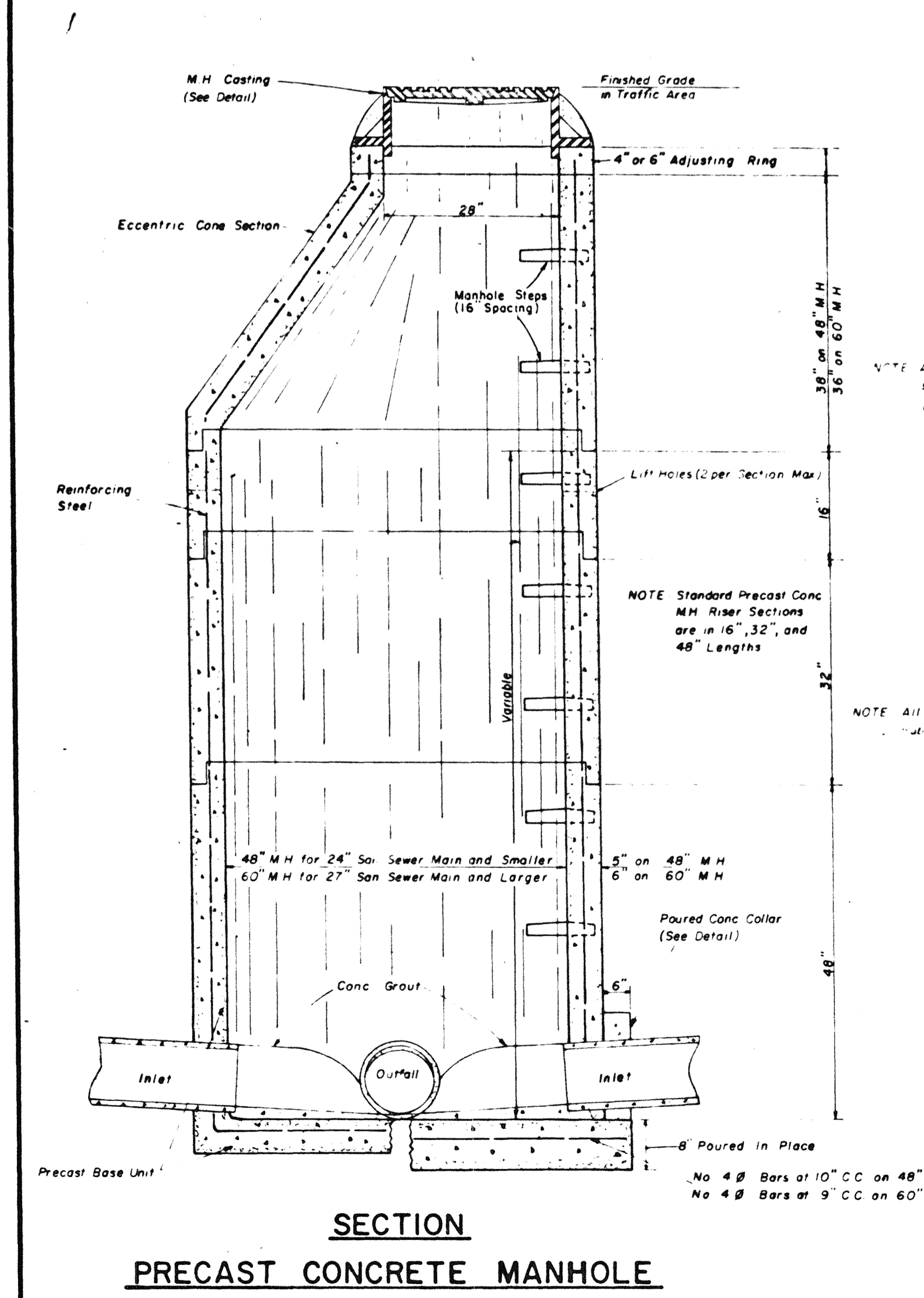
**SEWER SERVICE MARKER**

**TYPICAL SECTION  
CLASS "B" BEDDING**

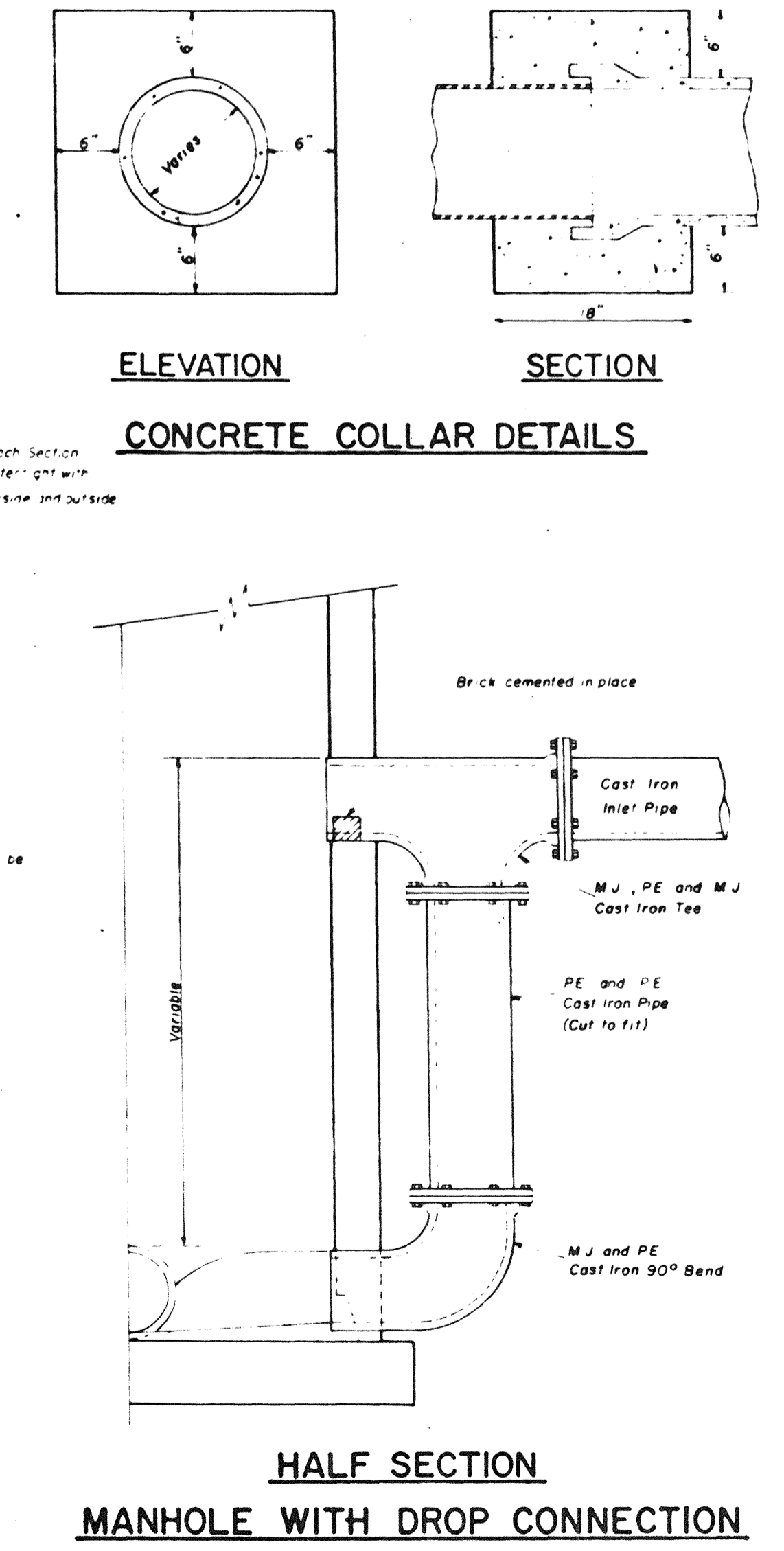
**TYPICAL SECTION  
CLASS "C" BEDDING**

**PLAN OF MANHOLE  
FLOW CHANNELS**

**JOINT DETAILS**

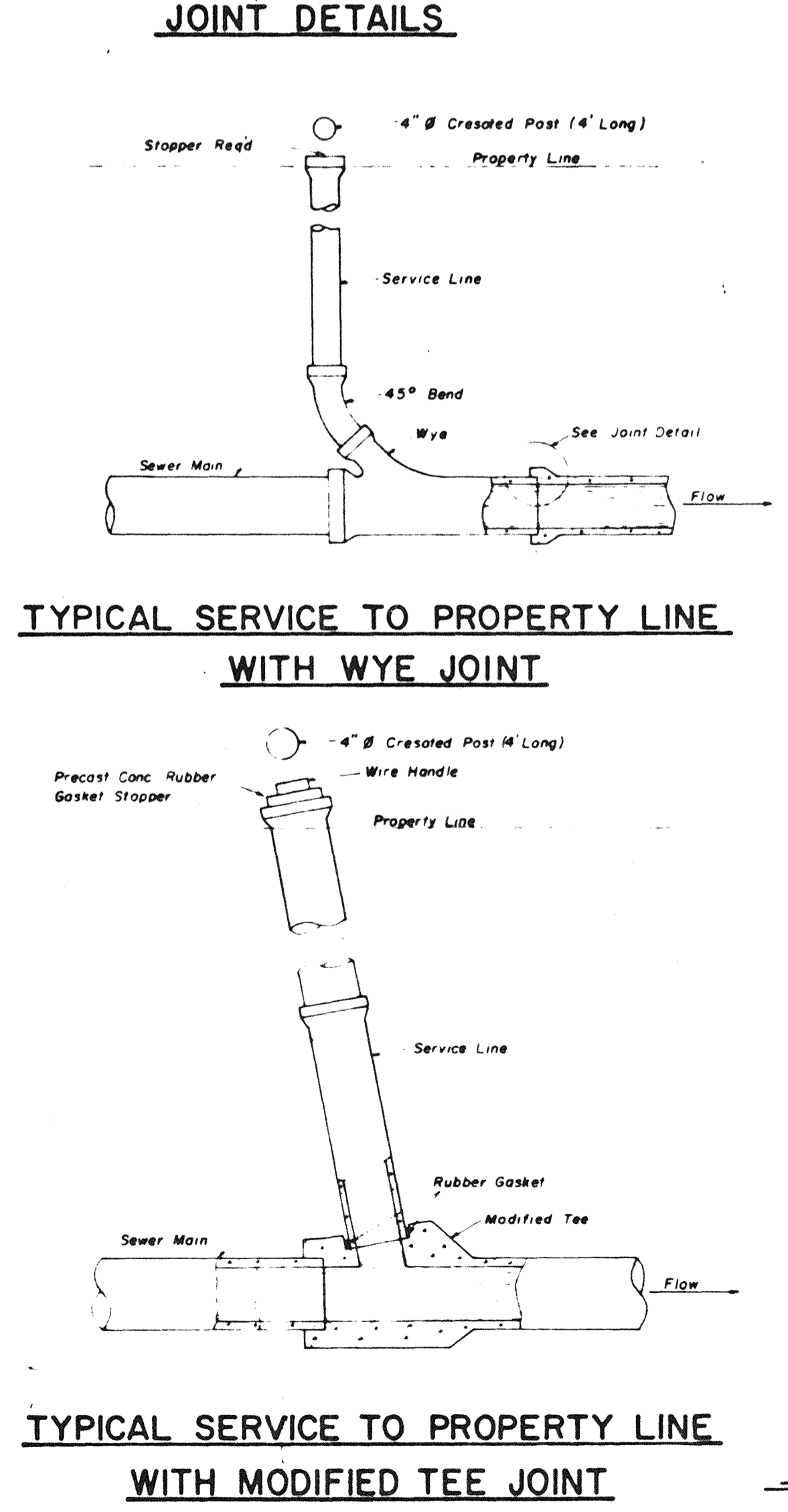


**SECTION  
PRECAST CONCRETE MANHOLE**



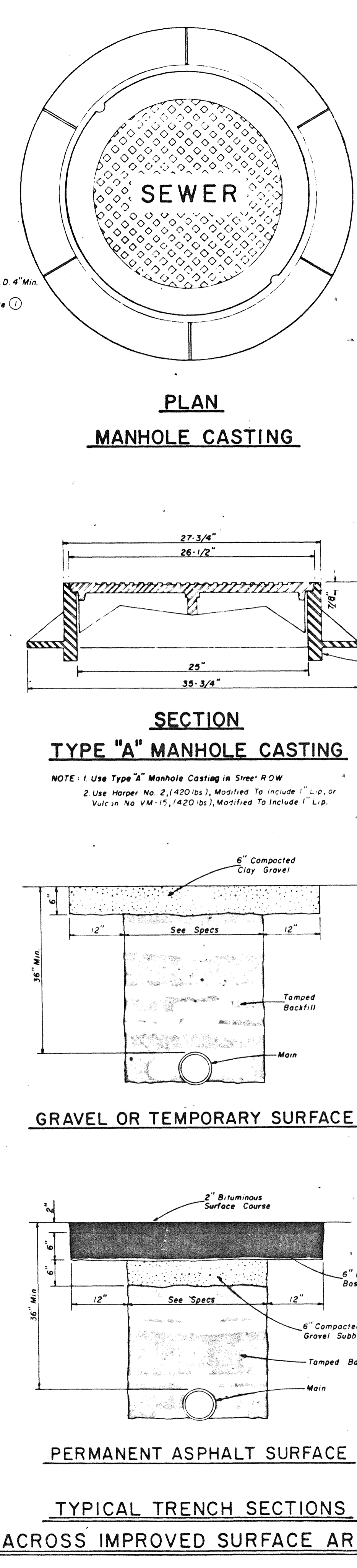
**ELEVATION  
SECTION  
CONCRETE COLLAR DETAILS**

**HALF SECTION  
MANHOLE WITH DROP CONNECTION**



**TYPICAL SERVICE TO PROPERTY LINE  
WITH WYE JOINT**

**TYPICAL SERVICE TO PROPERTY LINE  
WITH MODIFIED TEE JOINT**



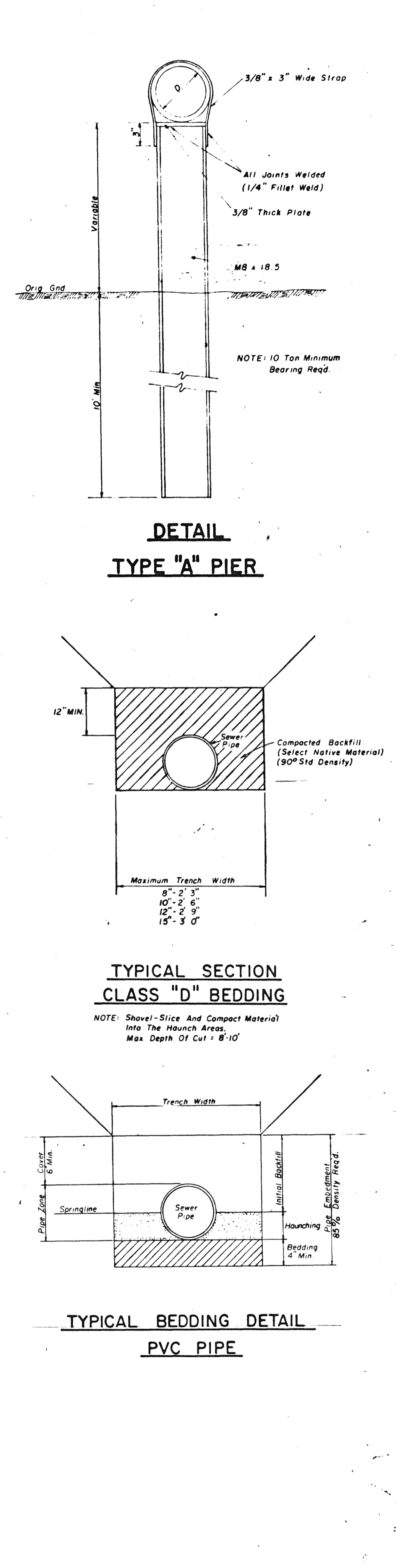
**PLAN  
MANHOLE CASTING**

**SECTION  
TYPE "A" MANHOLE CASTING**

**SECTION  
TYPE "A" MANHOLE CASTING**

**PERMANENT ASPHALT SURFACE**

**TYPICAL TRENCH SECTIONS  
ACROSS IMPROVED SURFACE AREAS**



**DETAIL  
TYPE "A" PIER**

**TYPICAL SECTION  
CLASS "D" BEDDING**

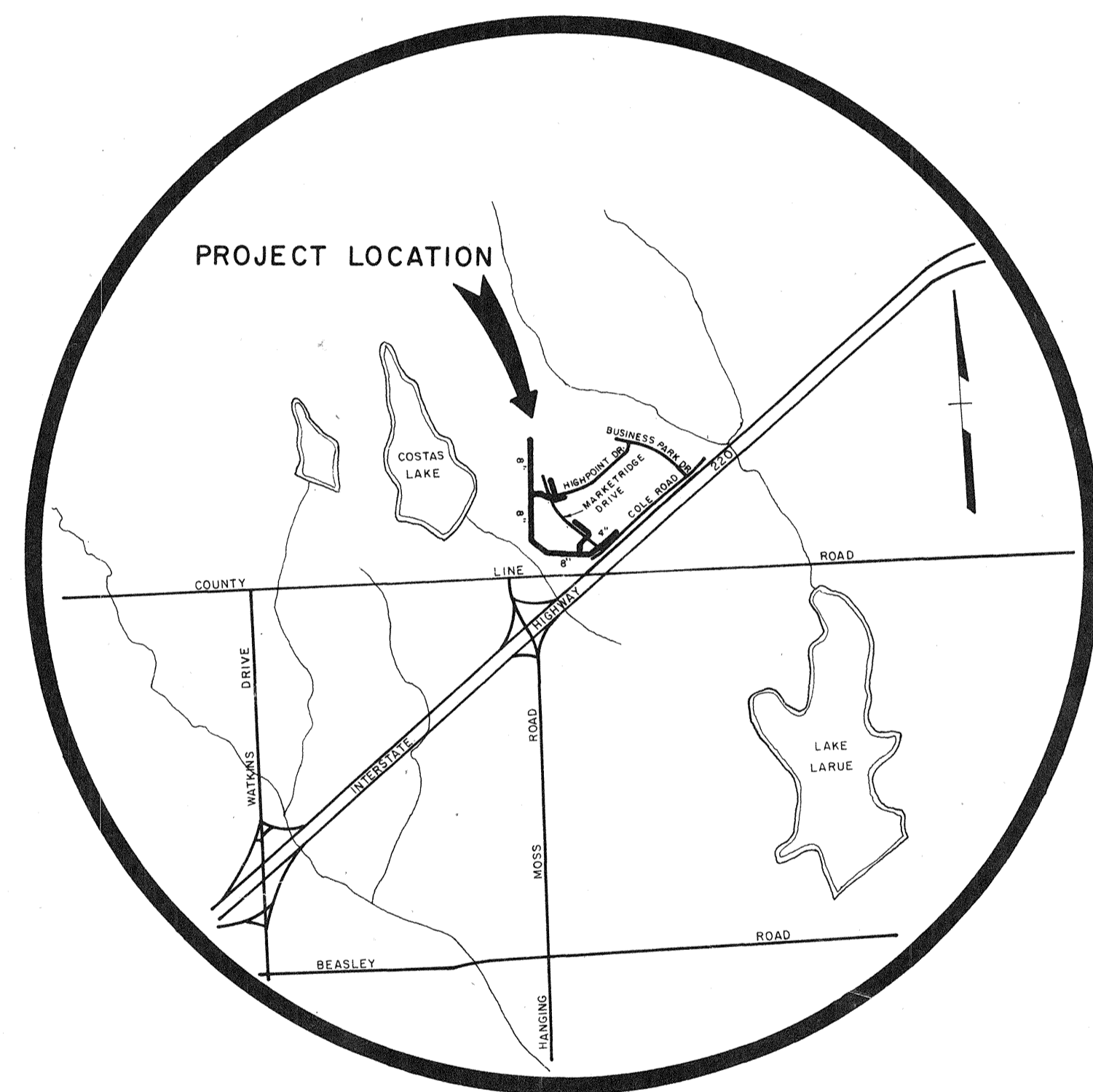
**TYPICAL BEDDING DETAIL  
PVC PIPE**

DESIGNED BY	J.L.J.	DATE	1-20-86
DRAWN BY	M.C. J.L.J.	SCALE	AS SHOWN
CHECKED BY	J.L.J.	FILE NO.	7200.9
NO.	DATE	NATURE	BY
2	7-28-82	ADD PVC PIPE BEDDING DETAIL	M.C. J.L.J.
1	4-23-81	ADD CLASS "D" BEDDING DETAIL	M.C. J.L.J.
REVISIONS			

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON, MISSISSIPPI

PROJECT NO. 520  
SEWER  
STANDARD CONSTRUCTION DETAILS  
SHEET S-1



SANITARY SEWER EXTENSIONS  
220 BUSINESS PARK

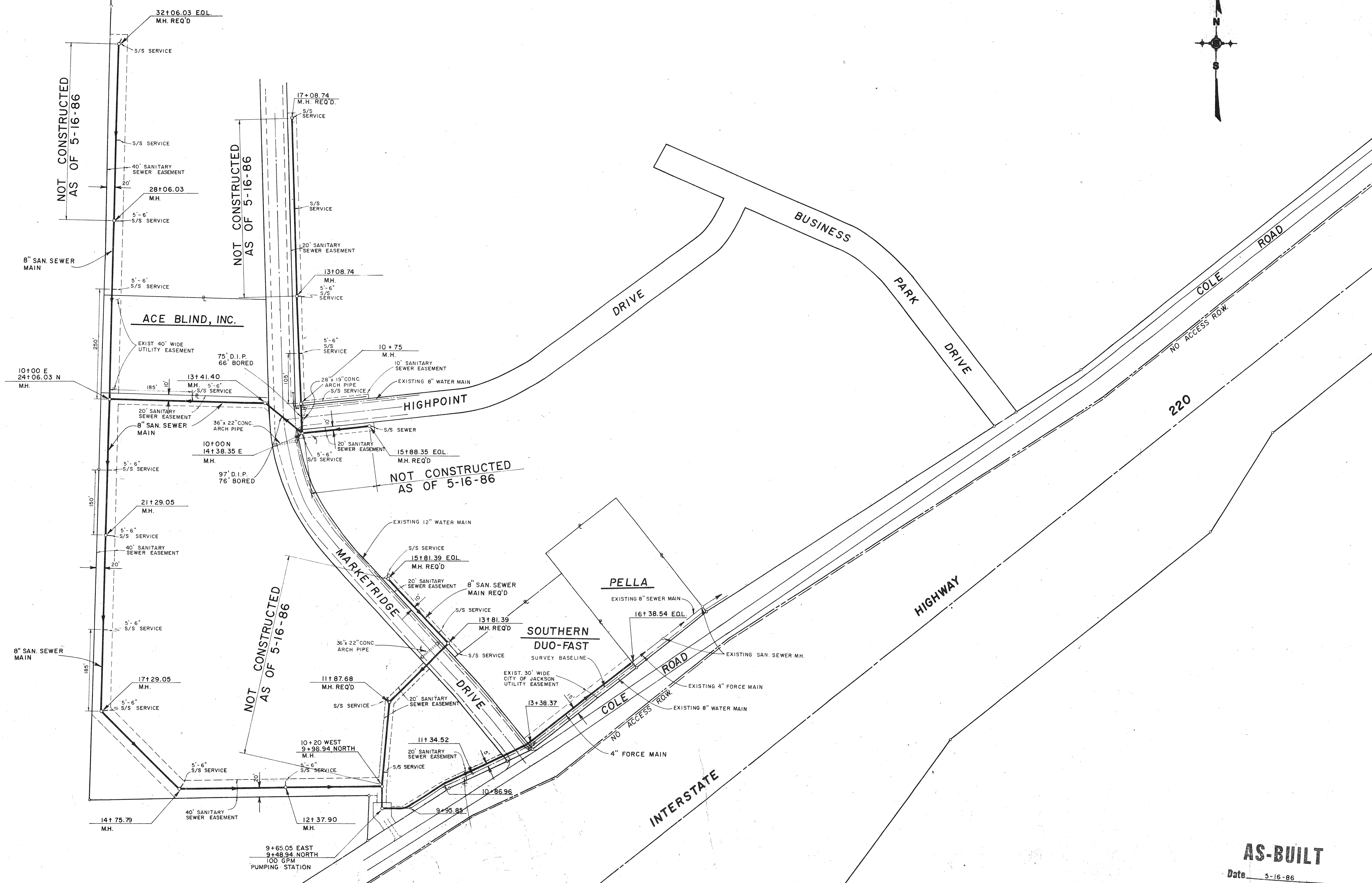
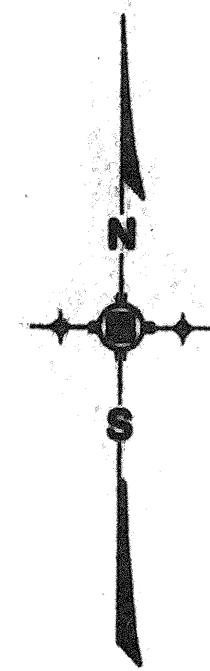
MADISON COUNTY, MISSISSIPPI

I HEREBY CERTIFY THAT A FINAL FIELD SURVEY WAS CONDUCTED AND THAT THESE "AS BUILT" PLANS RESULTED FROM SAID SURVEY AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT EACH IMPROVEMENT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH CITY SPECIFICATIONS.

*[Signature]*  
 JOE L. JOHNSON  
 REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR  
 STATE OF MISSISSIPPI

**AS-BUILT**

Date 5-16-86



**AS-BUILT**

Date 5-16-86

				DESIGNED J.L.J.	DATE 1-20-86		<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI			PROJECT LAYOUT		PROJECT NO 520		
				DRAWN J.E.M.	SCALE 1" = 100'					SANITARY SEWER EXTENSIONS 220 BUSINESS PARK		CONTRACT	SHEET 1	
NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED J.L.J.	JOB NO. 7200.9								

SM-1613 (5)

Leflower, East 11, Page 41-83

BENCH MARK ELEV. 359.21 M.S.L.  
R.R. SPIKE IN 42" OAK  
±60' RT. OF STA. 14+10

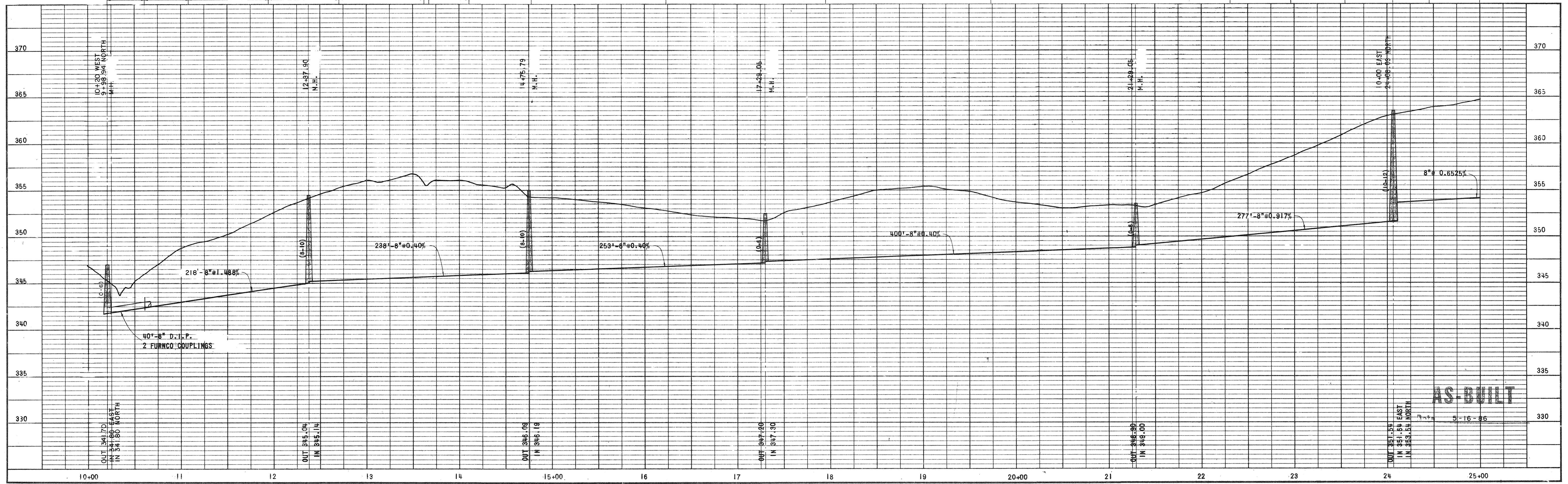
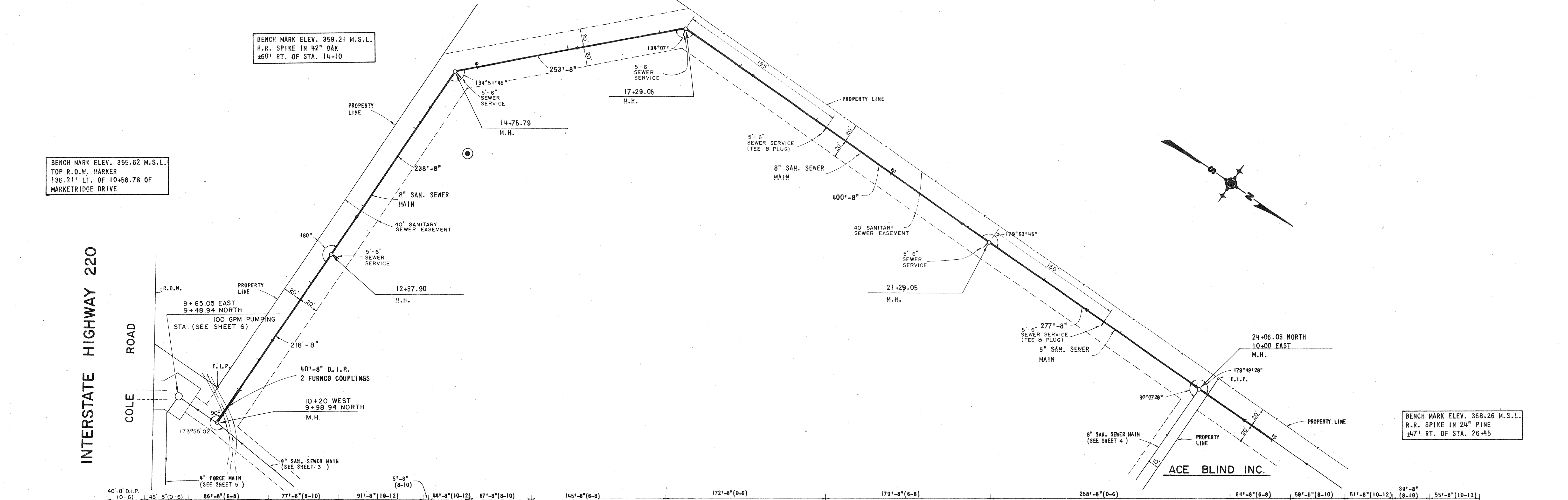
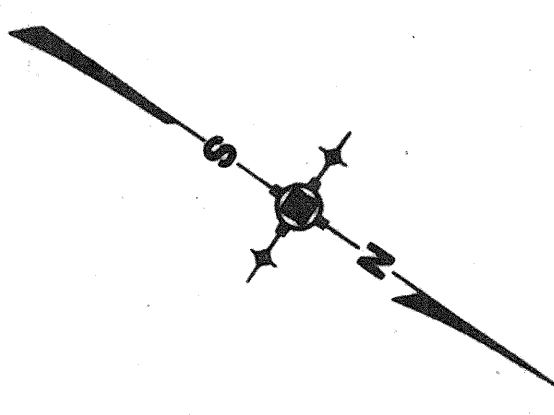
BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
136.21' LT. OF 10+56.78 OF  
MARKETTRIDGE DRIVE

BENCH MARK ELEV. 368.26 M.S.L.  
R.R. SPIKE IN 24" PINE  
±47' RT. OF STA. 26+45

INTERSTATE HIGHWAY 220

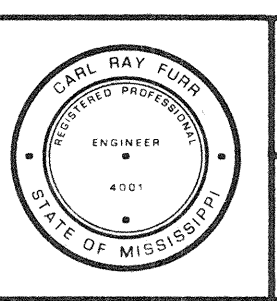
COLE ROAD

ACE BLIND INC.

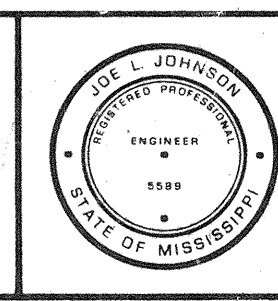


NO.	DATE	NATURE	BY	APP'D.	CHECKED	JOB NO.
		REVISIONS			J.L.J.	7200.9

DESIGNED	DATE
J.L.J.	1-20-86
DRAWN	SCALE
M.C.	1" = 50'



**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI

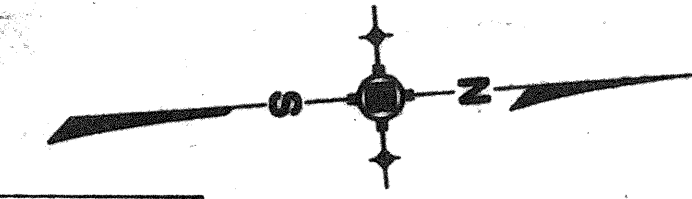
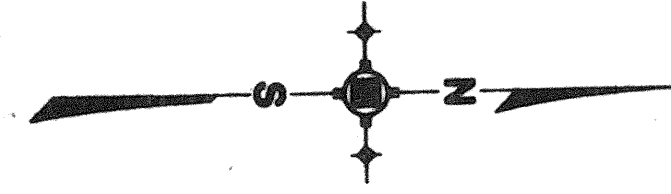


PLAN - PROFILE  
**SANITARY SEWER EXTENSIONS**  
220 BUSINESS PARK

PROJECT NO.	520
CONTRACT	
SHEET	2

**AS-BUILT**

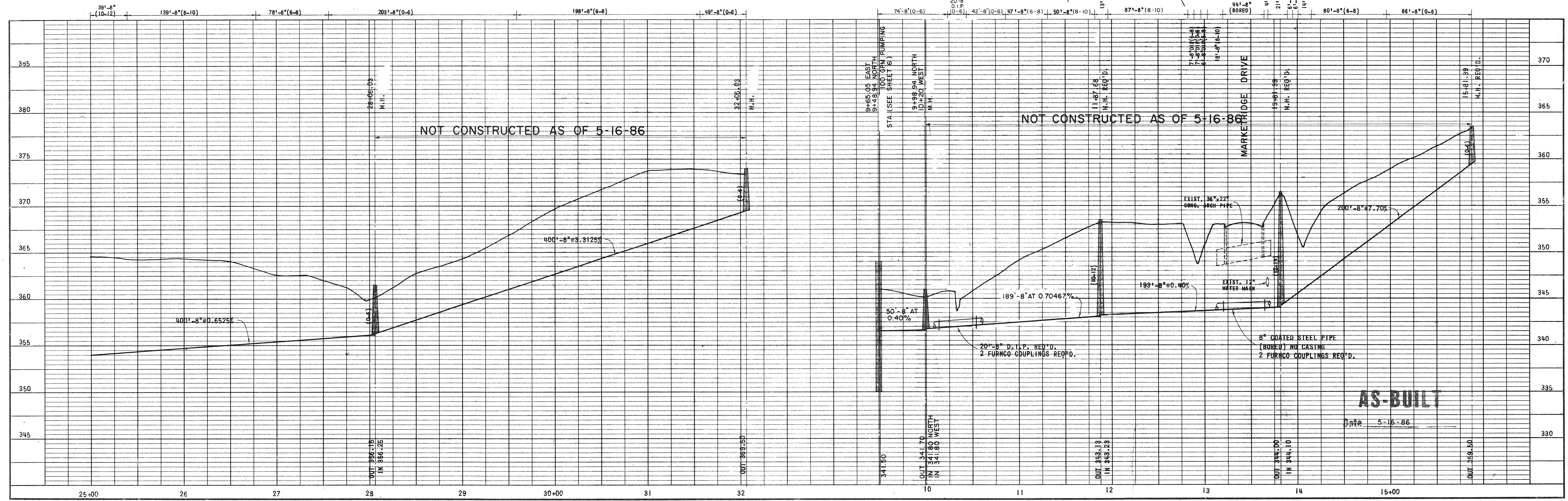
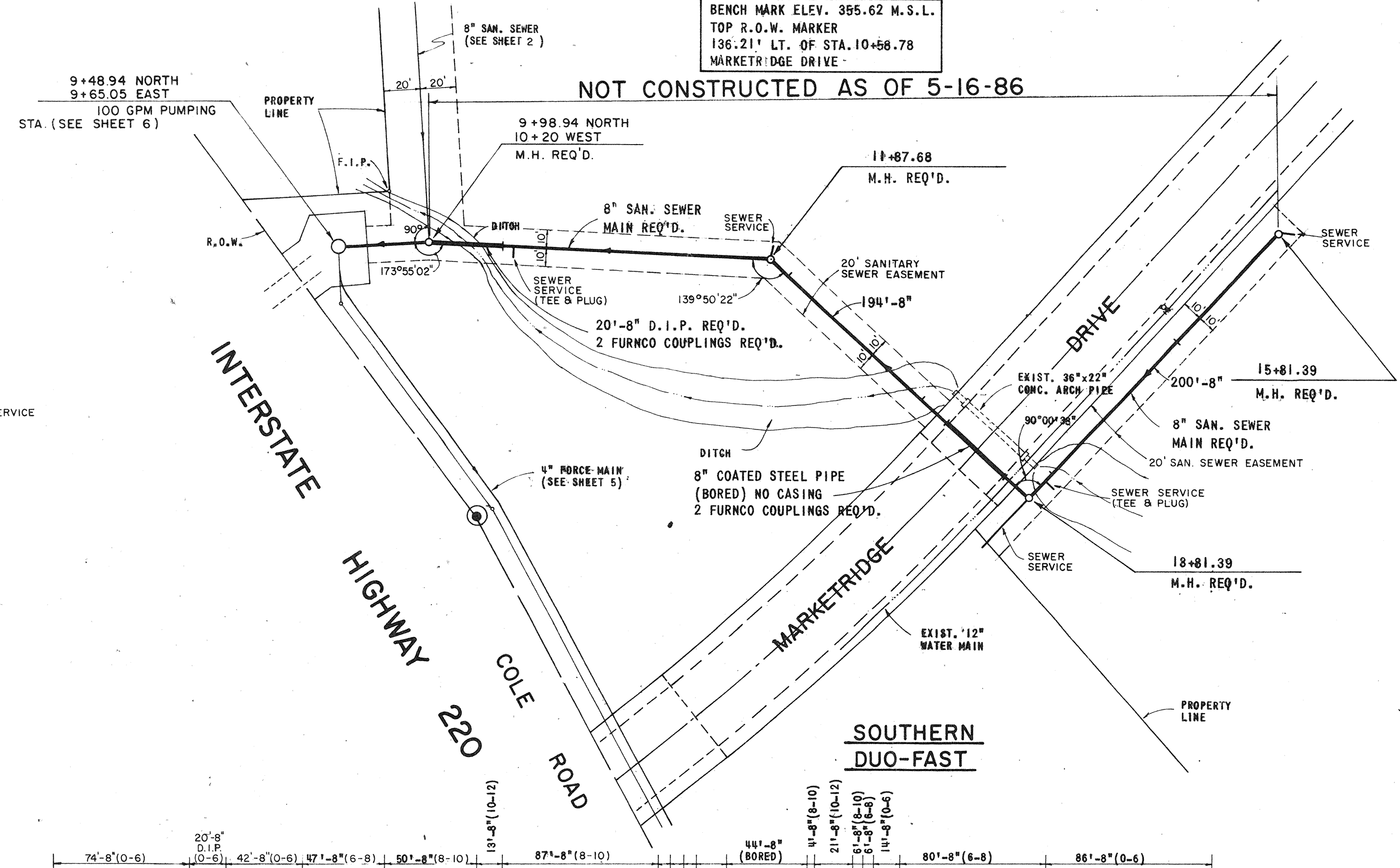
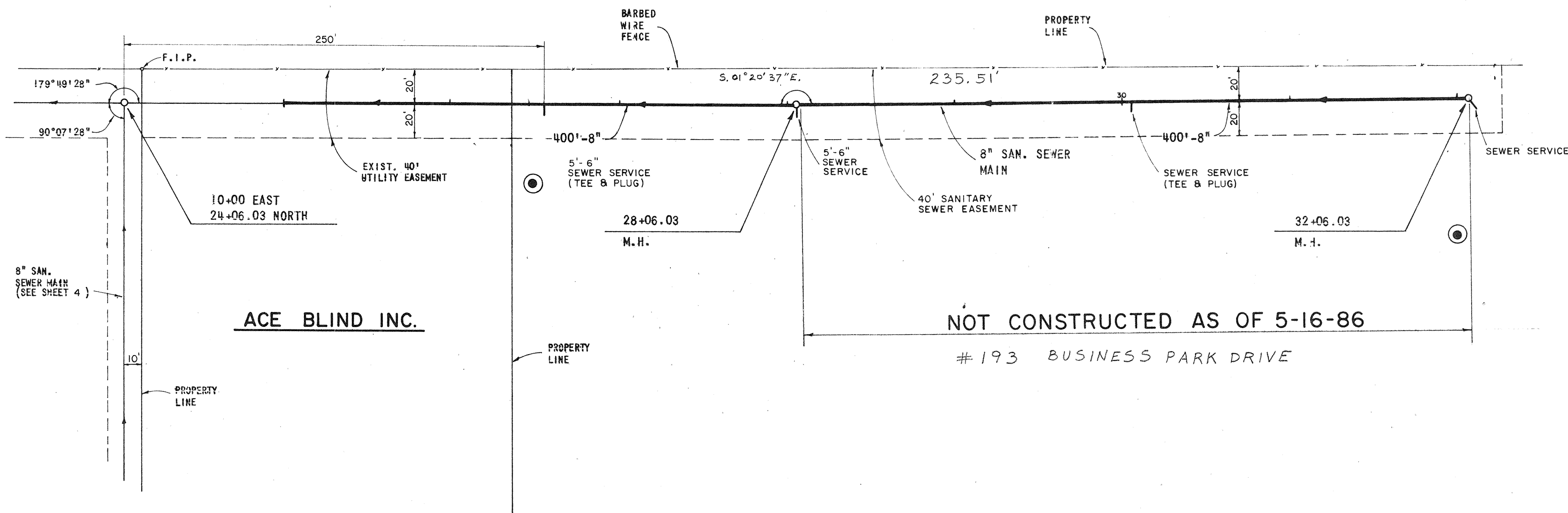
Q.M. 1613151



BENCH MARK ELEV. 368.26 M.S.L.  
R.R. SPIKE IN 2 1/4" OAK  
±47' RT. OF STA. 26+45

BENCH MARK ELEV. 376.07 M.S.L.  
R.R. SPIKE IN 1 1/2" OAK  
±82' RT. OF STA. 32+00

BENCH MARK ELEV. 365.62 M.S.L.  
TOP R.O.W. MARKER  
136.21' LT. OF STA. 10+58.78  
MARKETTRIDGE DRIVE



Letter Book U, Pgs. 44-45  
 Pgs. 49-50  
 Letter Book U, Pgs. 51-52

NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED	JOB NO.

DESIGNED J.L.J.	DATE 1-20-86
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI

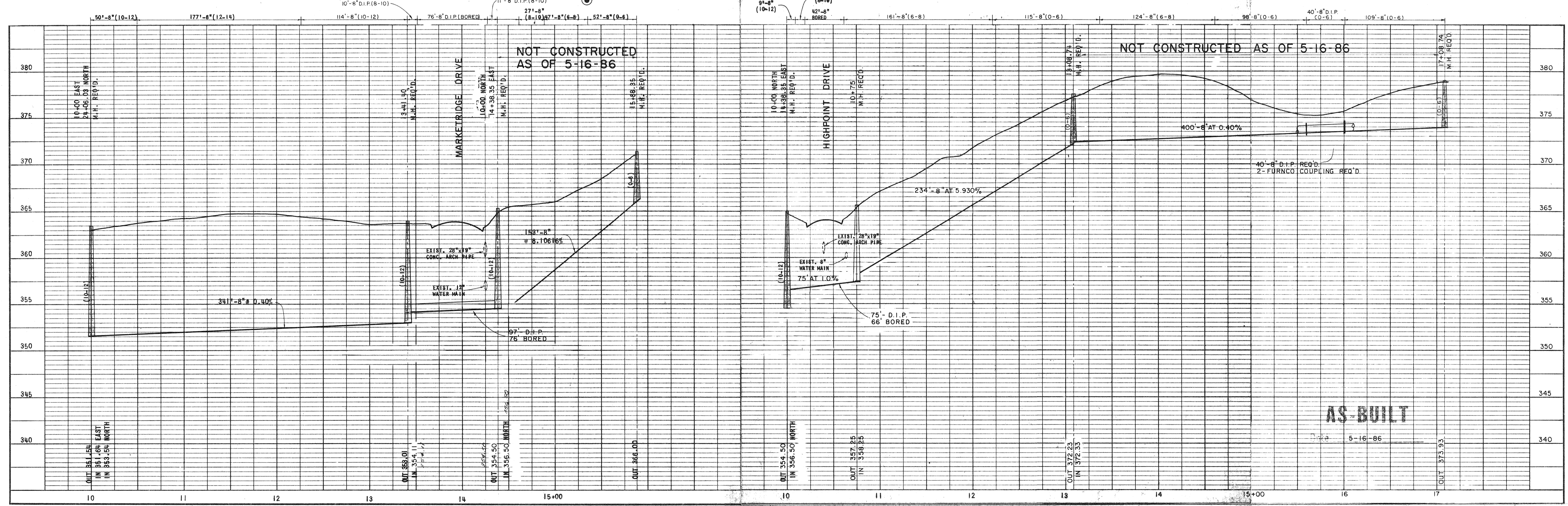
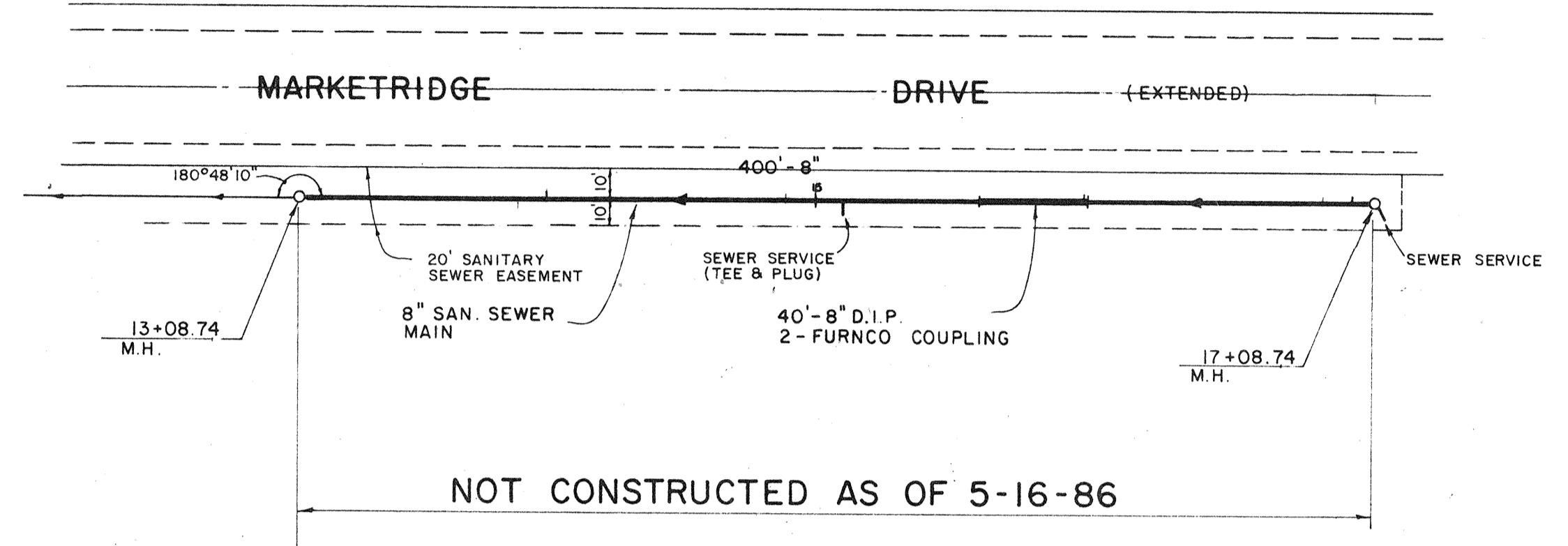
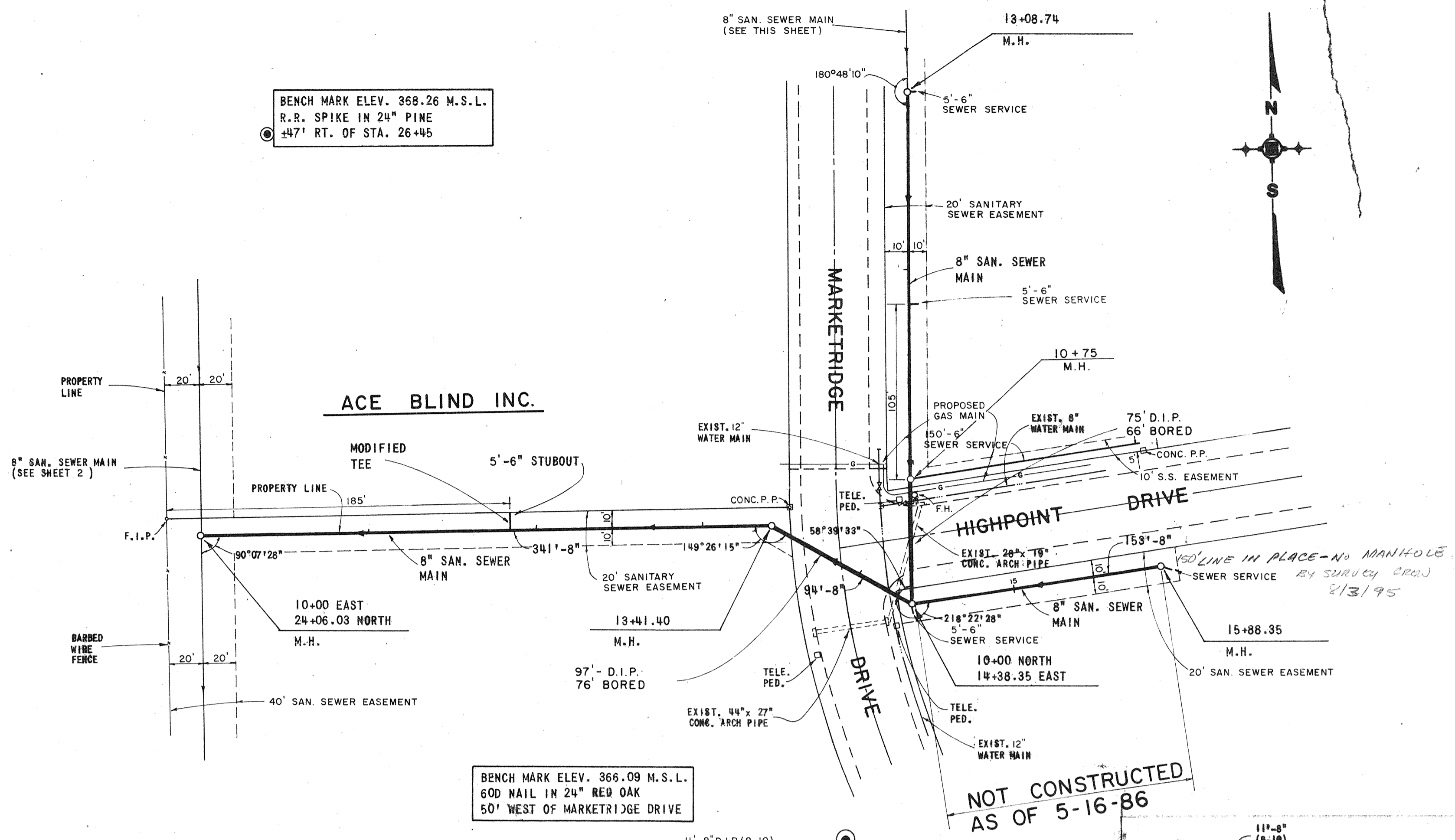
		<b>PLAN - PROFILE</b> <b>520</b>	PROJECT NO.
		<b>AS-BUILT</b> Date 5-16-86	CONTRACT
<b>SANITARY SEWER EXTENSIONS</b> <b>220 BUSINESS PARK</b>			SHEET
			3

9M-1613 (5)



Reference Book 11, Page 34-38

Reference Book 11, Page 44-47 (44)



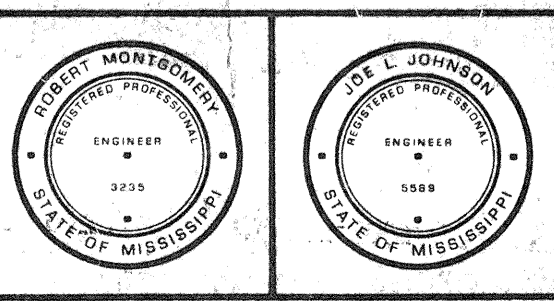
NO.	DATE	NATURE	BY	APP'D.	CHECKED	JOB NO.

DESIGNED J.L.J.	DATE 1-20-86
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 7200.9

**UNDERWOOD DEVELOPMENT COMPANY**

**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**

JACKSON / PEARL, MISSISSIPPI

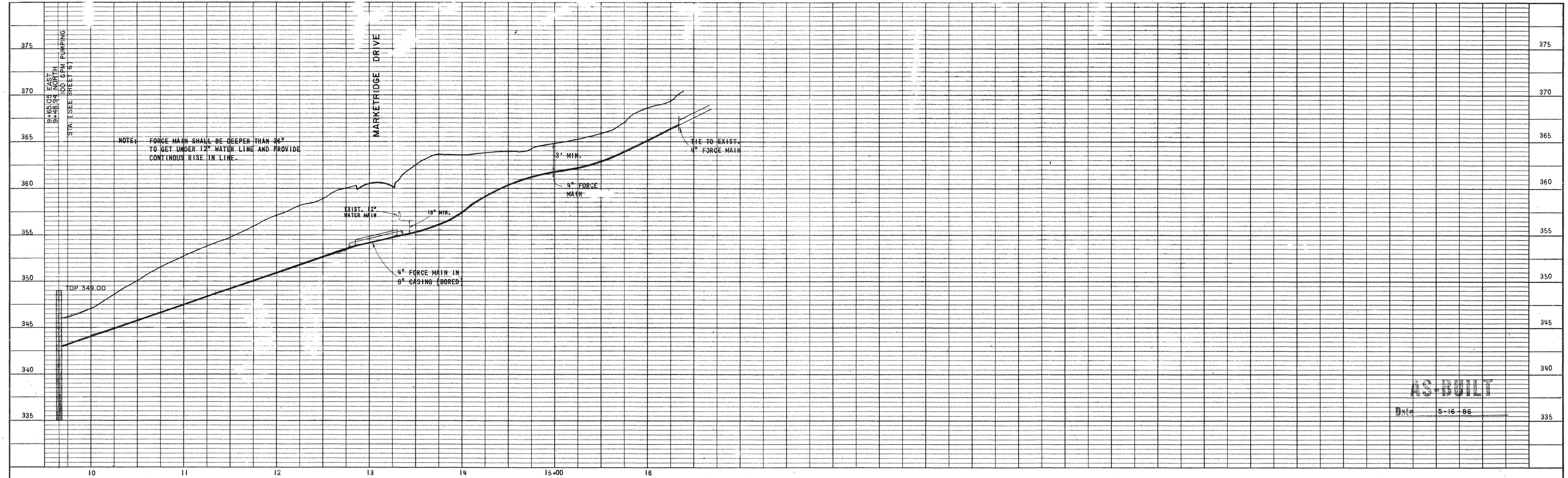
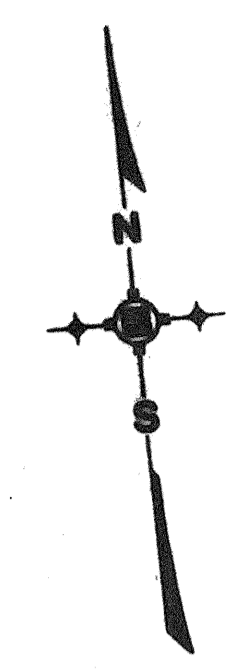
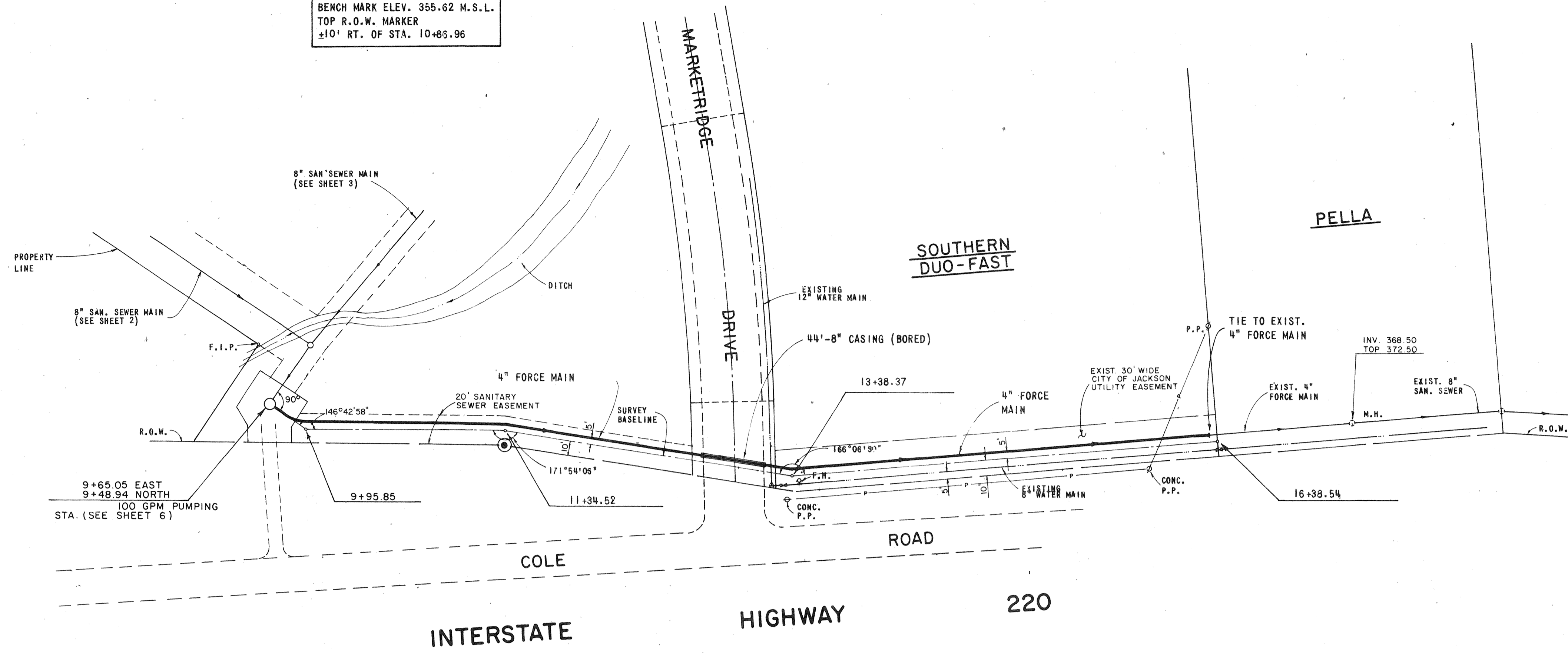


PLAN - PROFILE	
SANITARY SEWER EXTENSIONS 220 BUSINESS PARK	

PROJECT NO. 520	CONTRACT	SHEET 4
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8M-1613.151

BENCH MARK ELEV. 355.62 M.S.L.  
TOP R.O.W. MARKER  
±10' RT. OF STA. 10+86.96



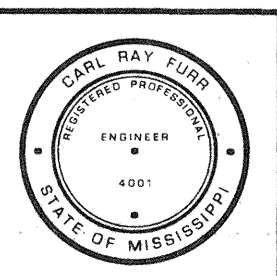
AS-BUILT  
Date 5-16-86

L&L Assoc. East of P. 21-86

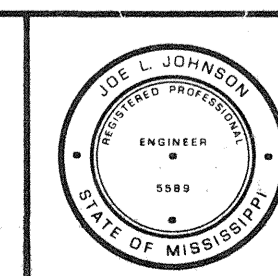
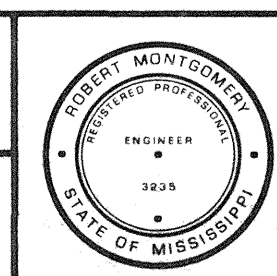
L&L Assoc. East of P. 21-86

NO.	DATE	NATURE REVISIONS	BY	APP'D.

DESIGNED J.L.J.	DATE 1-20-86
DRAWN M.C.	SCALE 1" = 50'
CHECKED J.L.J.	JOB NO. 7200.9



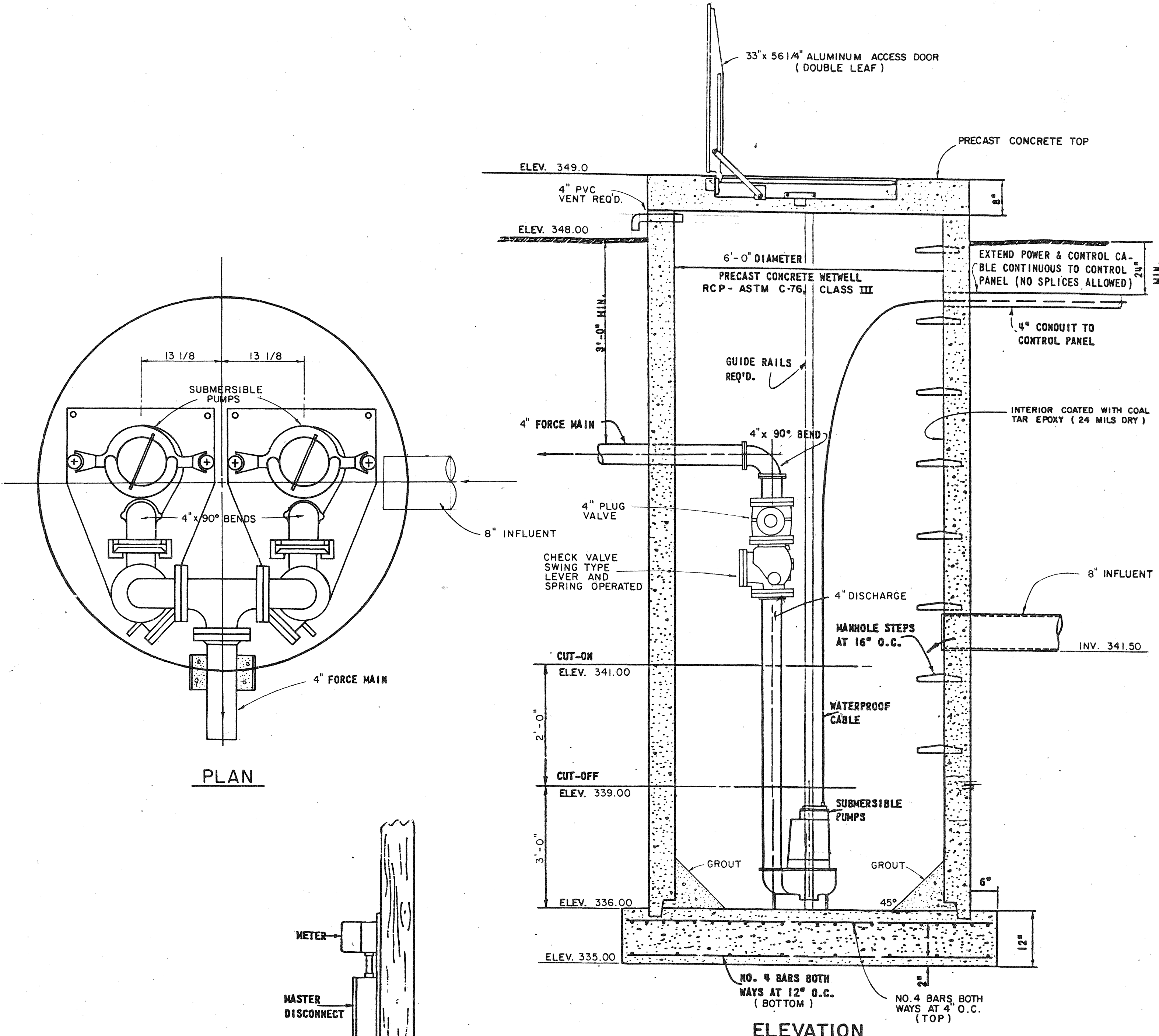
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON / PEARL, MISSISSIPPI



PLAN - PROFILE  
**SANITARY SEWER EXTENSIONS**  
220 BUSINESS PARK

PROJECT NO. 520	CONTRACT SHEET 5
--------------------	---------------------

21m-1613 (5)



PLAN

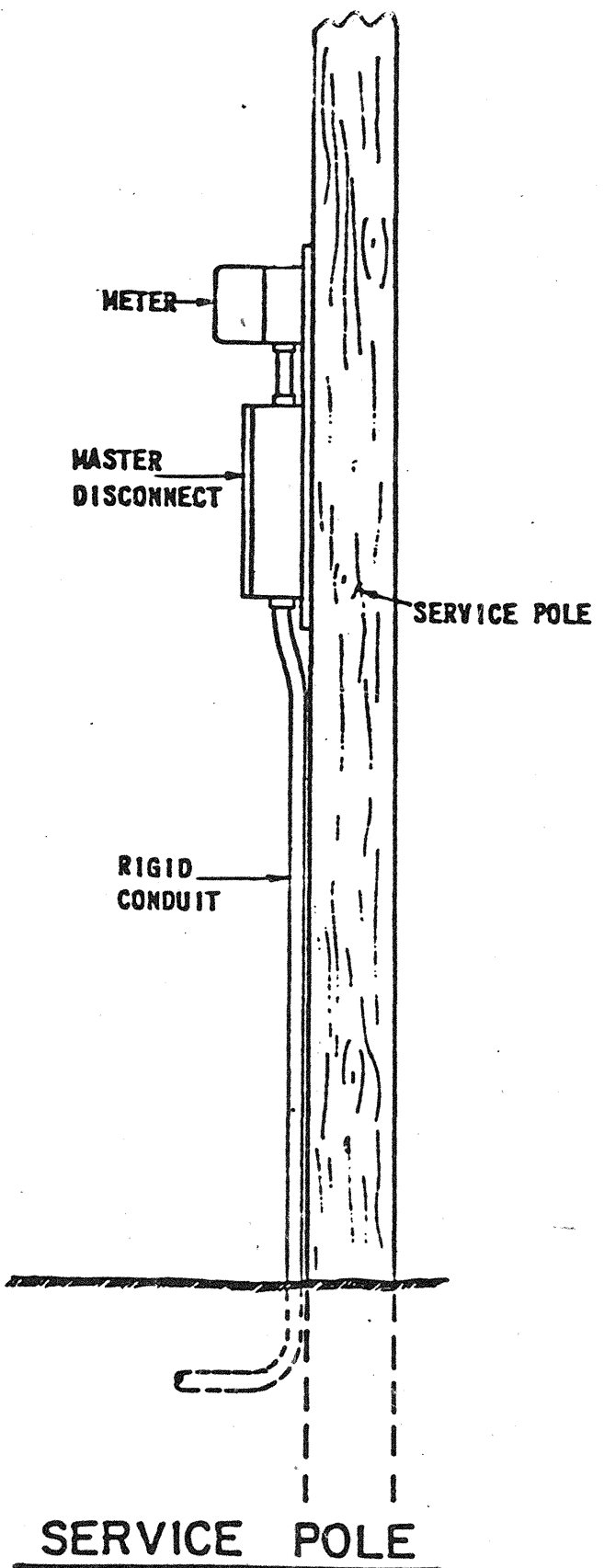
ELEVATION

DESIGN DATA

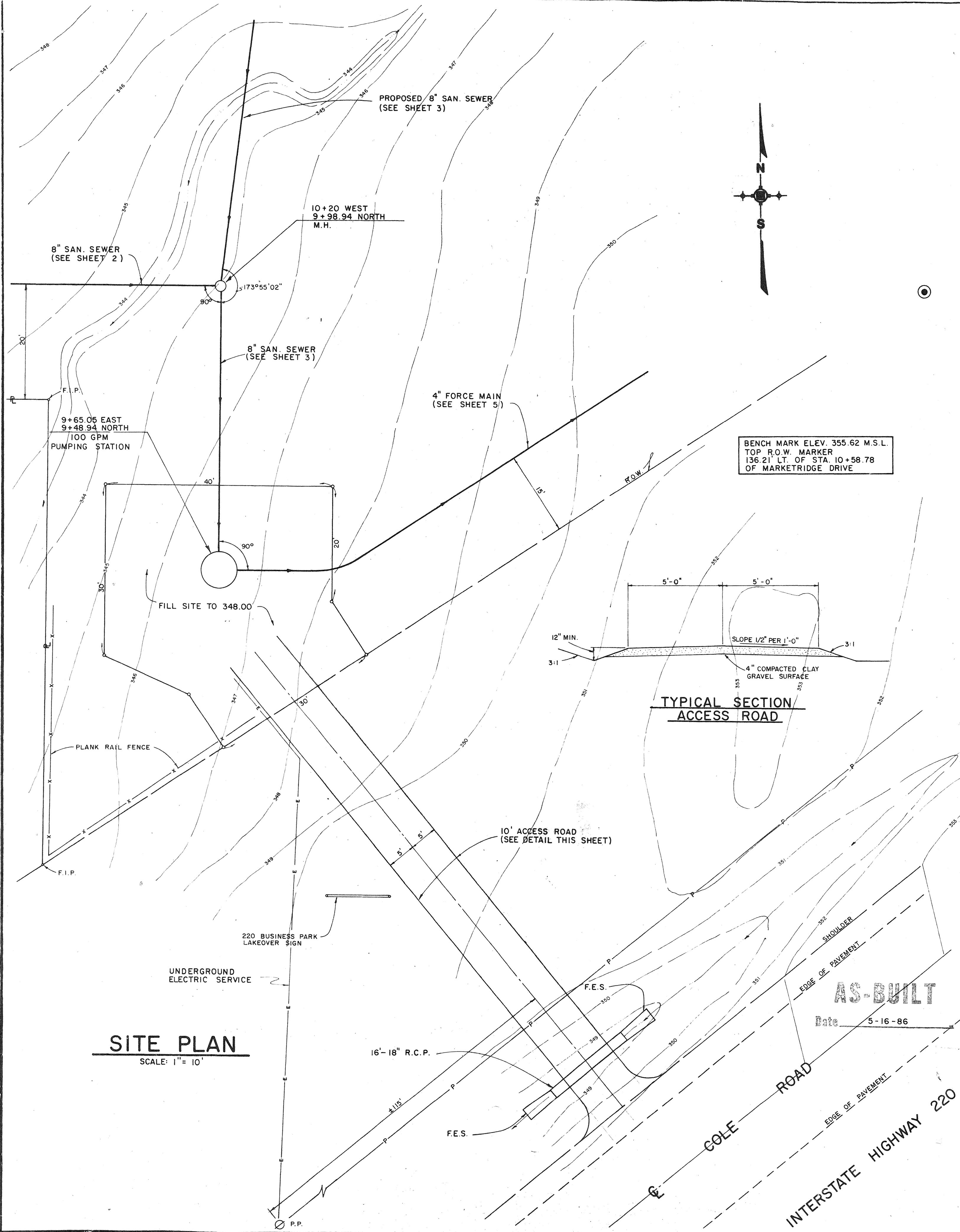
PUMPS: 2 - 4" DISCHARGE SUBMERSIBLE PUMPS (2 1/2" SOLIDS)  
 RATING: 100 G.P.M. AT 36' TOTAL DYNAMIC HEAD  
 HORSEPOWER: MAX. 3 (NON-OVERLOADING ON PUMP CURVE)  
 MOTOR SPEED: 1750 RPM MAX.  
 IMPELLER: 6 1/4" DIA.  
 POWER REQUIREMENTS: 1 PHASE, 60 CYCLE, 230 VOLTS  
 CONTROLS: MERCURY TUBE SWITCHES  
 750 L.F. 4" FORCE MAIN

NOTES:

1. A MASTER DISCONNECT SWITCH SHALL BE FURNISHED.
2. CONTROL PANEL SHALL BE NEMA-3R, WITH CIRCUIT BREAKERS, MAGNETIC STARTER, HAND-OFF AUTO SWITCHES, RUN LIGHT FOR EACH PUMP AND A RELAY ALTERNATING CIRCUIT.
3. FURNISH A FLASHING ALARM LIGHT ON CONTROL PANEL.
4. PUMPS SHALL BE FURNISHED WITH DOUBLE SEALS AND A SEAL FAILURE LIGHT IN THE CONTROL PANEL.
5. SERVICE POLE, WEATHERHEAD, METER BASE, MASTER DISCONNECT, AND RIGID CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



SERVICE POLE



SITE PLAN

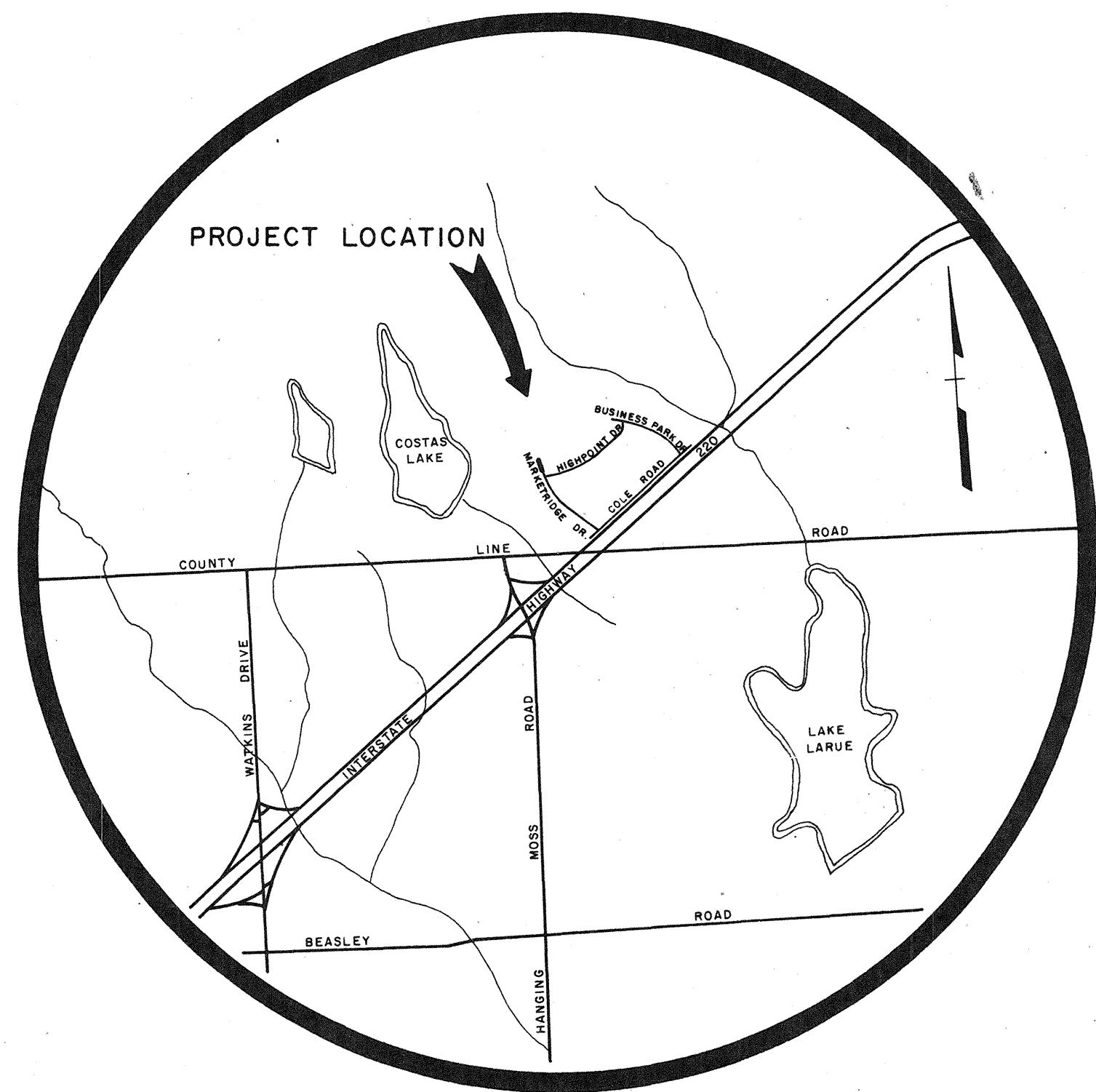
SCALE: 1" = 10'

TYPICAL SECTION ACCESS ROAD

BENCH MARK ELEV. 355.62 M.S.L.  
 TOP R.O.W. MARKER  
 136.21' LT. OF STA. 10+58.78  
 OF MARKETDRIVE

DESIGNED J.L.J.		DATE 1-20-86			<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI			<b>PUMPING STATION DETAILS</b> SANITARY SEWER EXTENSIONS 220 BUSINESS PARK		PROJECT NO 520 CONTRACT SHEET 6	
DRAWN M.C.		SCALE			JOB NO. 7200.9			AS-BUILT Date 5-16-86			
NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED						

87-1613 (5)



MARKETRIDGE DRIVE EXTENSION  
220 BUSINESS PARK

MADISON COUNTY, MISSISSIPPI

I HEREBY CERTIFY THAT A FINAL FIELD SURVEY WAS CONDUCTED AND THAT THESE "AS BUILT" PLANS RESULTED FROM SAID SURVEY AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT EACH IMPROVEMENT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH CITY SPECIFICATIONS.

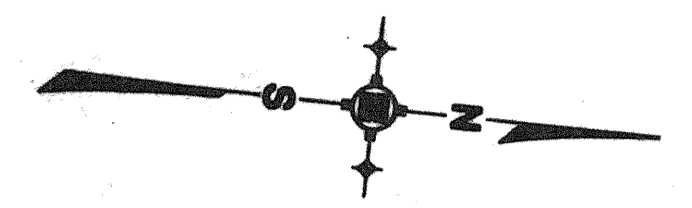
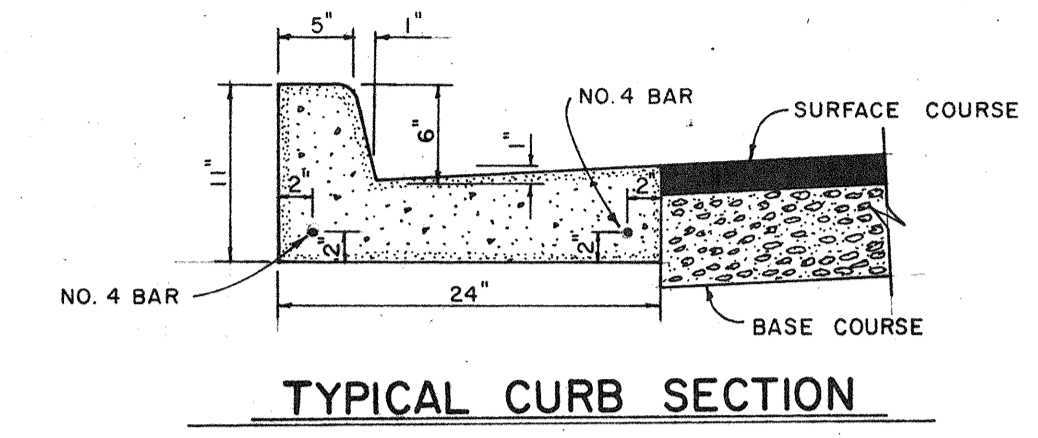
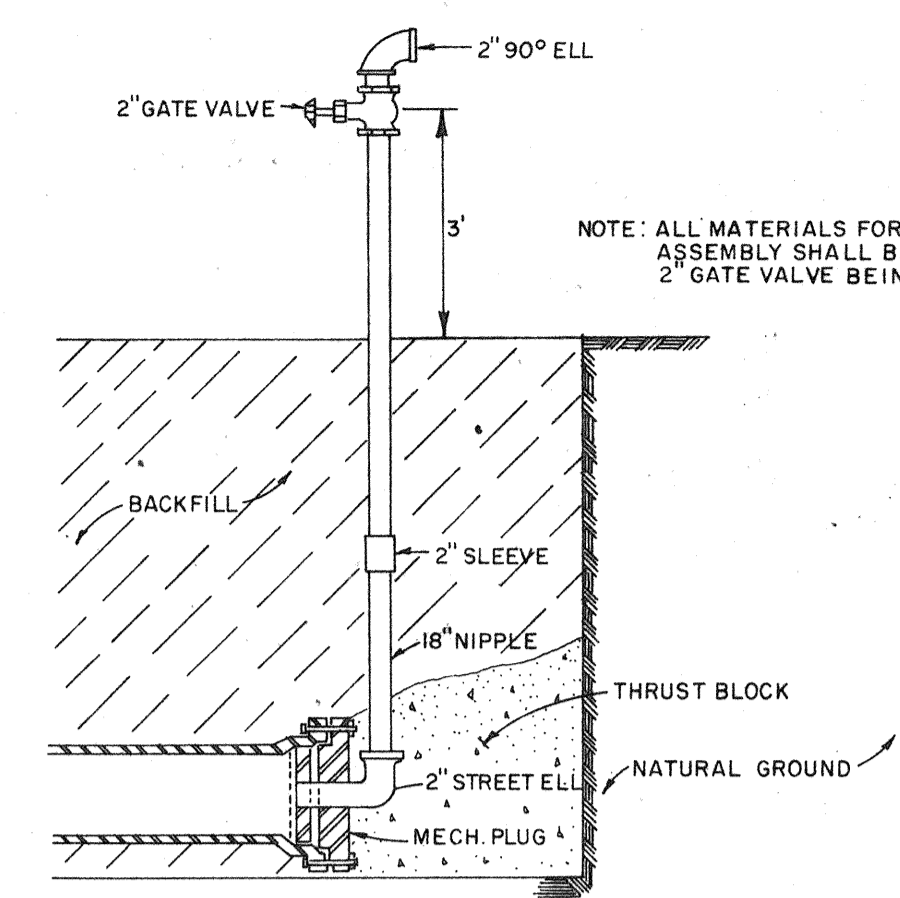
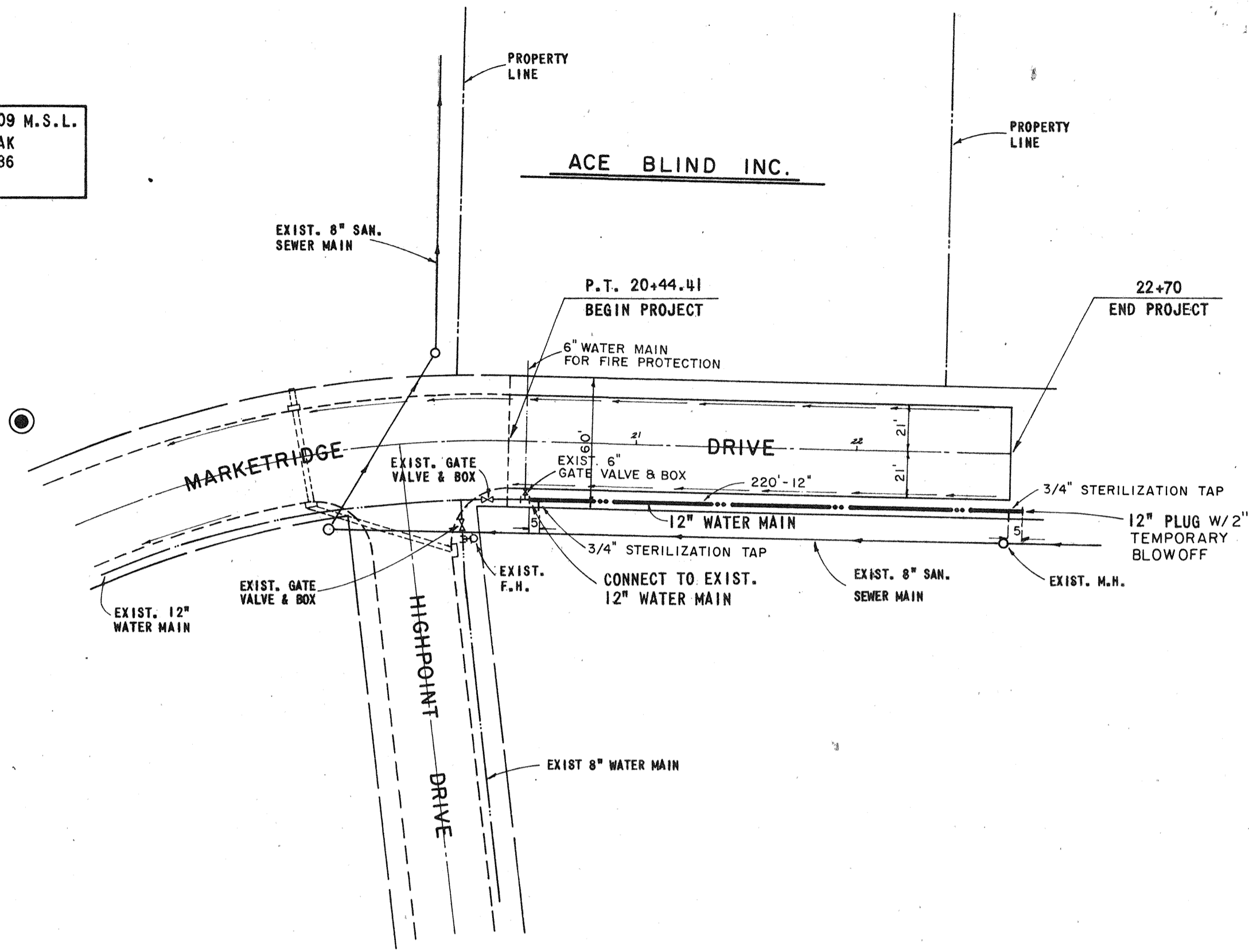
*Joe L. Johnson*  
 REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR  
 PE-5584  
 JOE L. JOHNSON, P.E., S.  
 STATE OF MISSISSIPPI

JOE L. JOHNSON  
 REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR  
 PE-5584  
 JOE L. JOHNSON, P.E., S.  
 STATE OF MISSISSIPPI

**AS-BUILT**

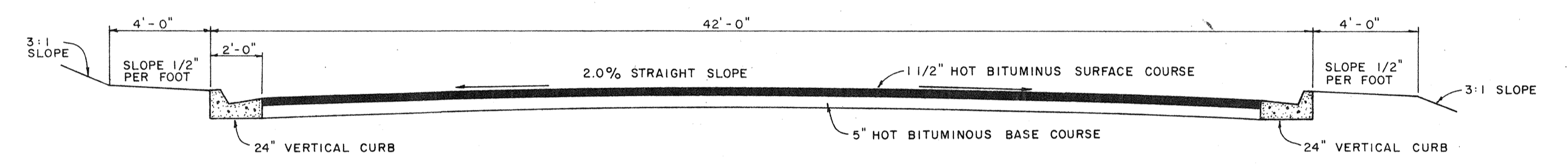
Date 5-28-86

BENCH MARK ELEV. 366.09 M.S.L.  
60D NAIL IN 24" RED OAK  
± 50' LT. OF STA. 18+36  
MARKETRIDGE DRIVE

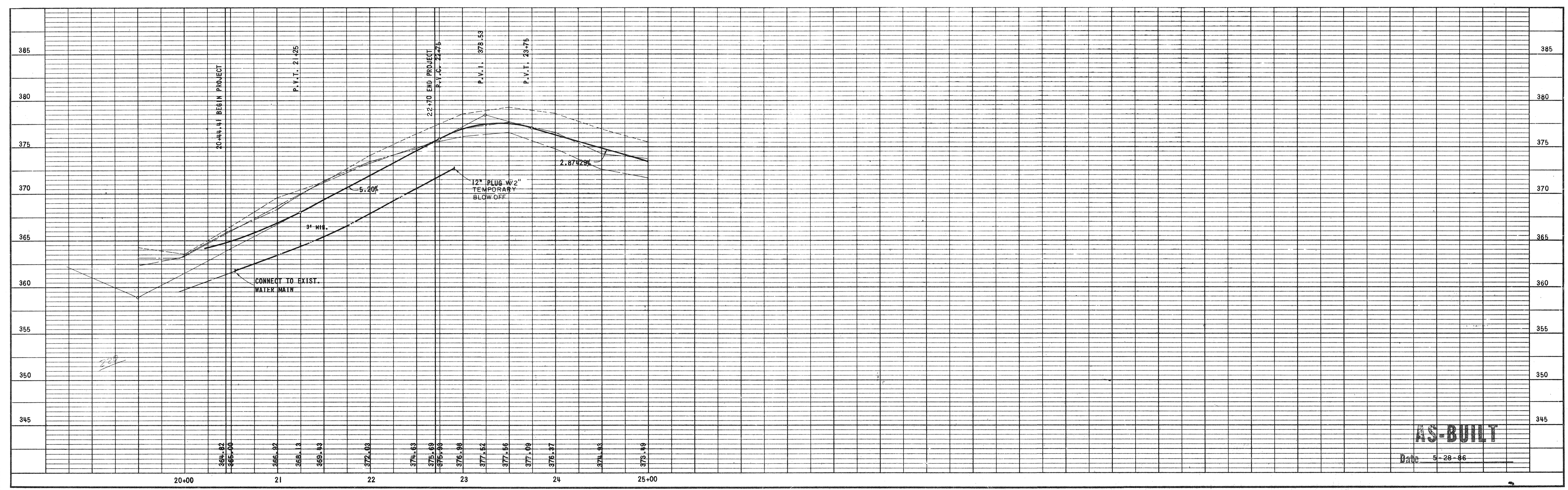


BLOW OFF ASSEMBLY

TYPICAL CURB SECTION



TYPICAL STREET SECTION

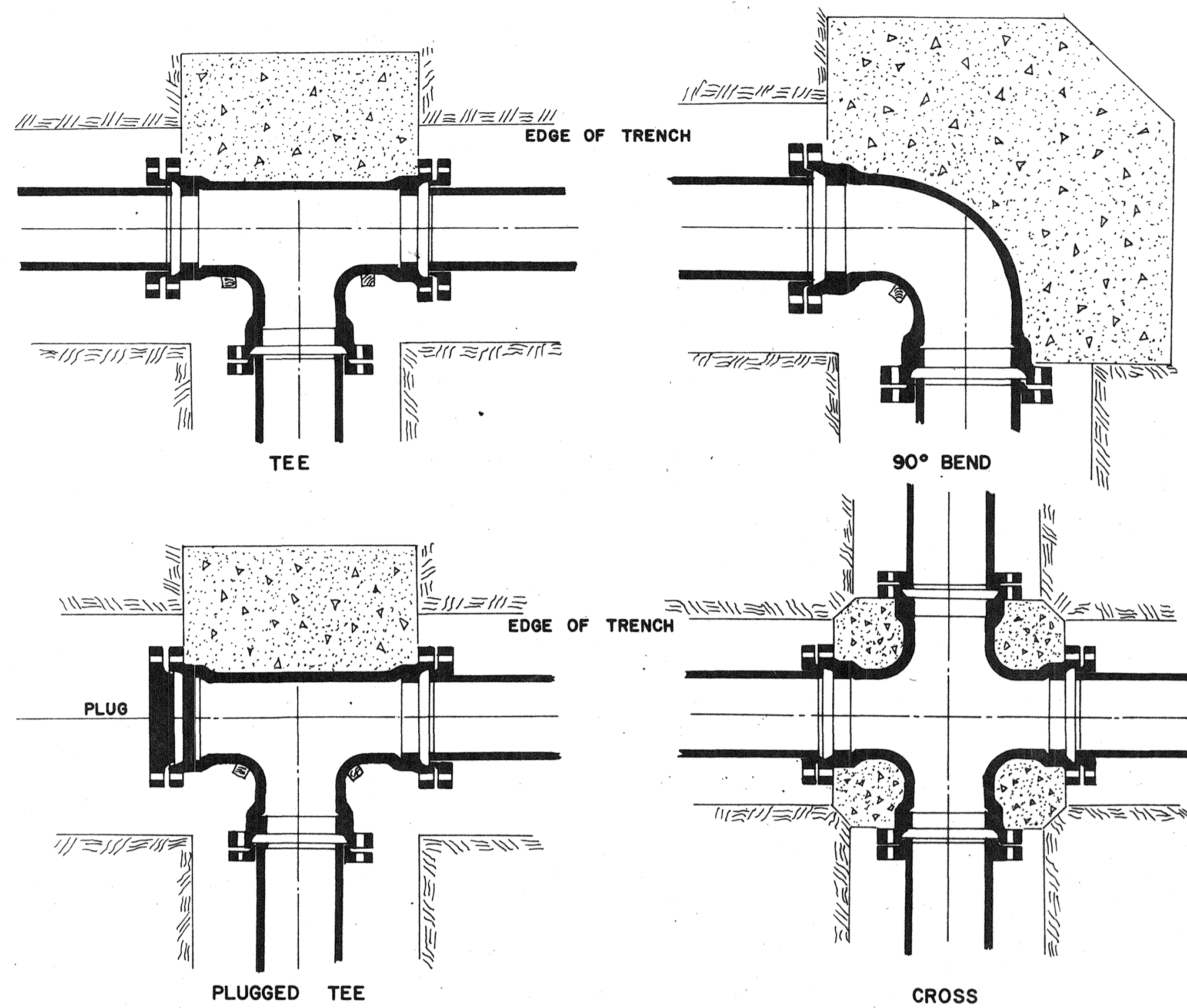


**AS-BUILT**  
Date 9-28-86

				DESIGNED J.L.J.	DATE APRIL 86		<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI			PLAN & PROFILE		PROJECT NO. 535
				DRAWN M.C.	SCALE 1" = 50'					MARKETRIDGE DRIVE EXTENSION		CONTRACT
NO.	DATE	NATURE REVISIONS	BY	APP'D.	CHECKED J.L.J.	JOB NO. 7200.9						

9M-1413 '53

TYPICAL BLOCKING FOR WATER MAINS

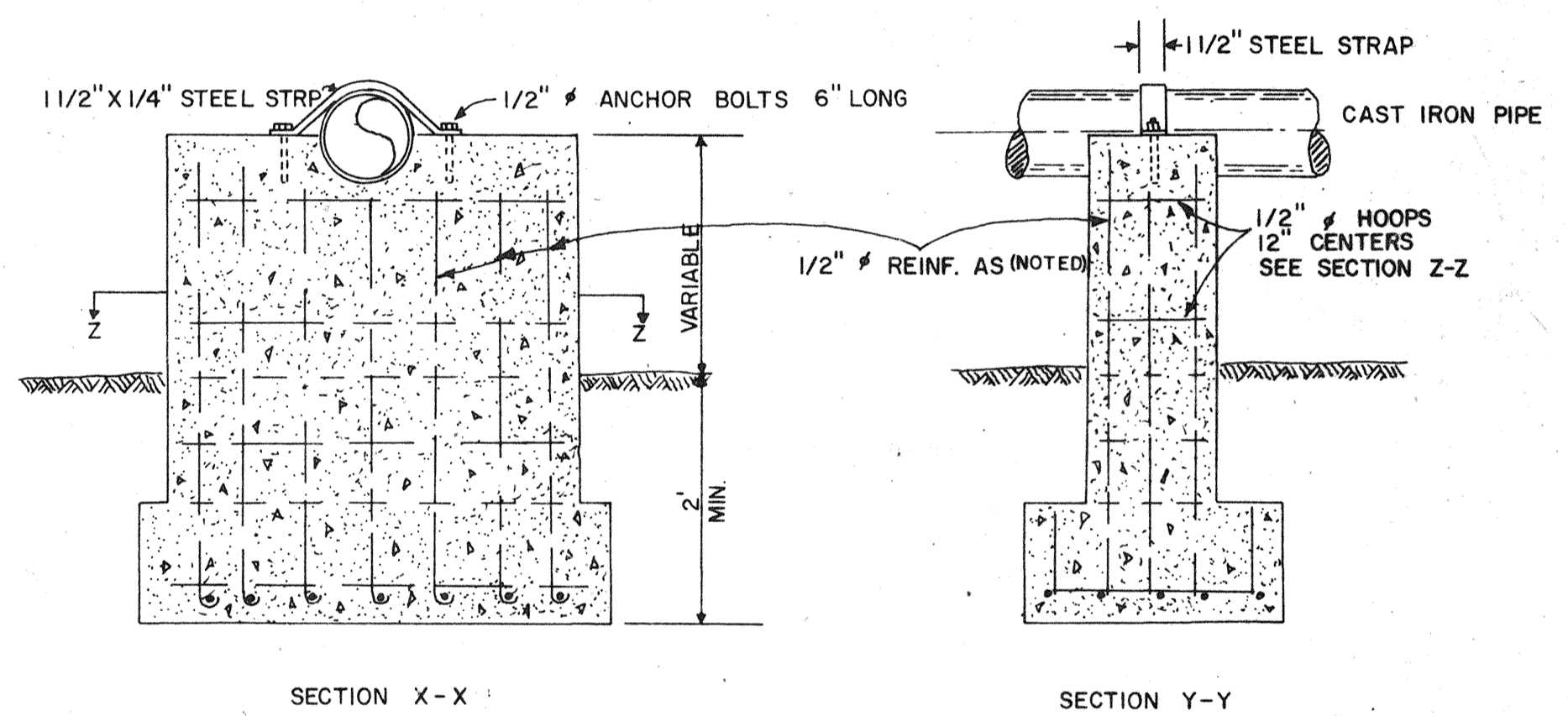
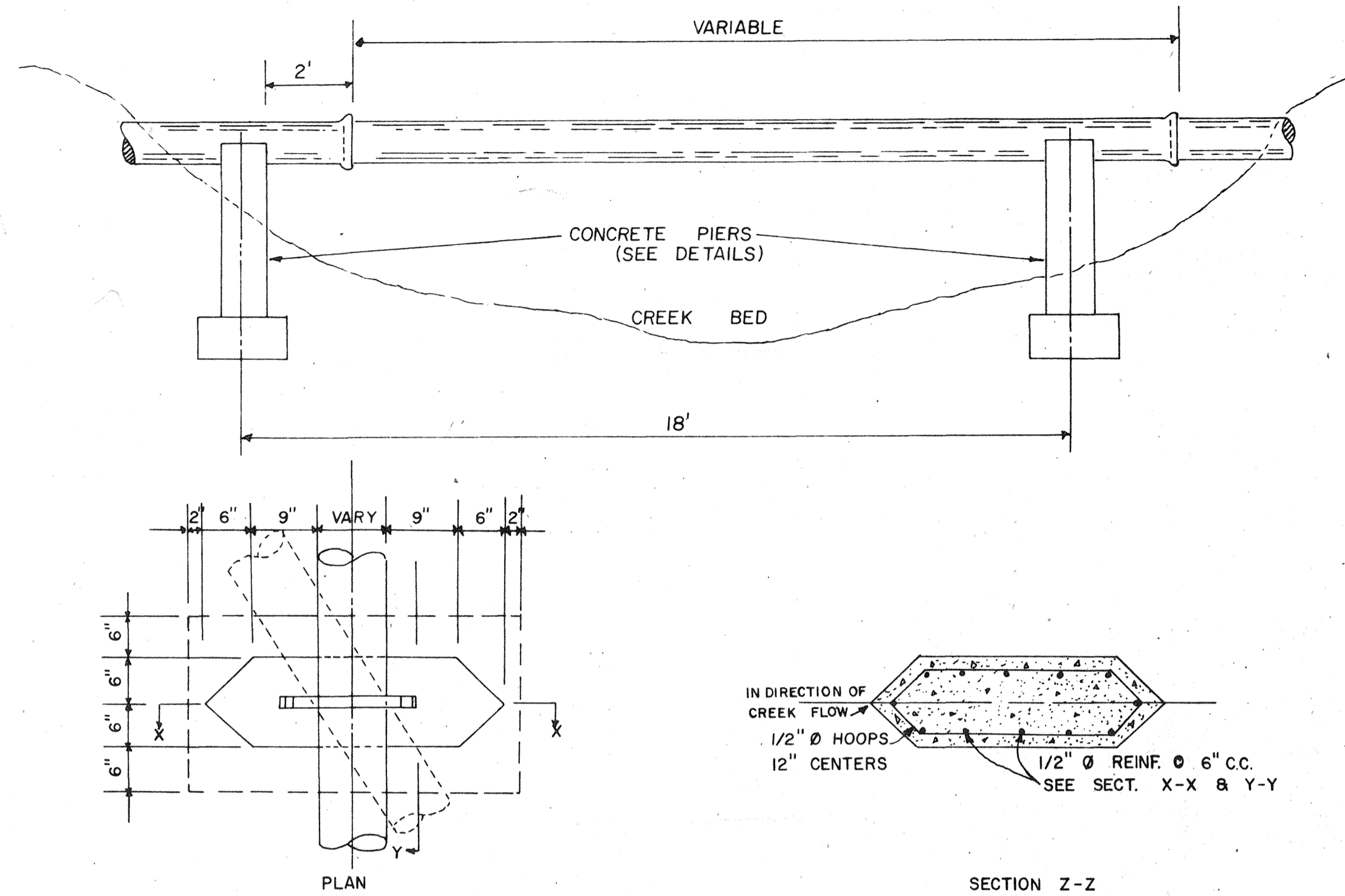


AREA OF BEARING FACE CONCRETE THRUST

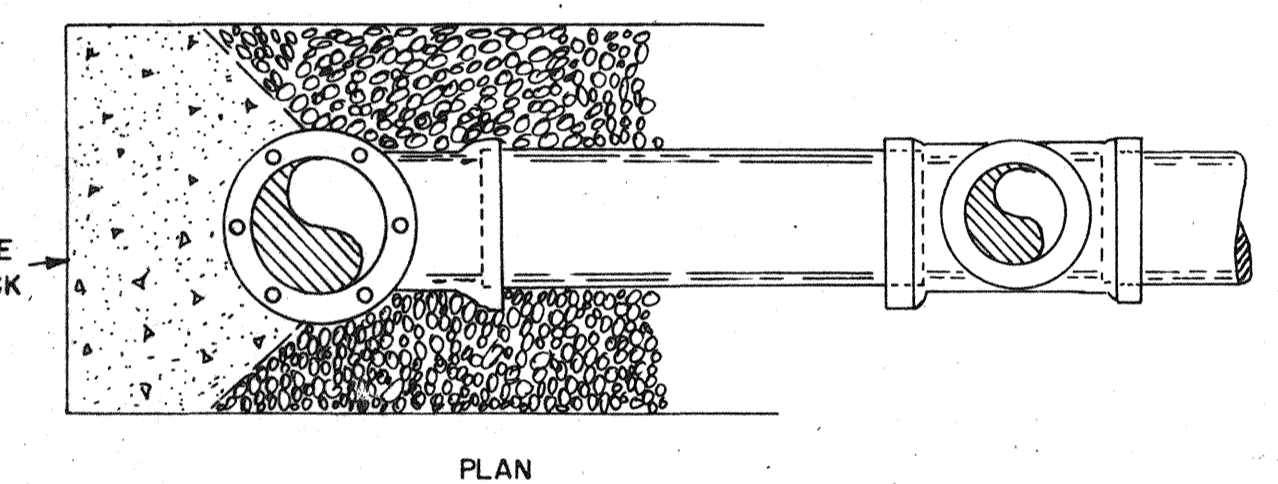
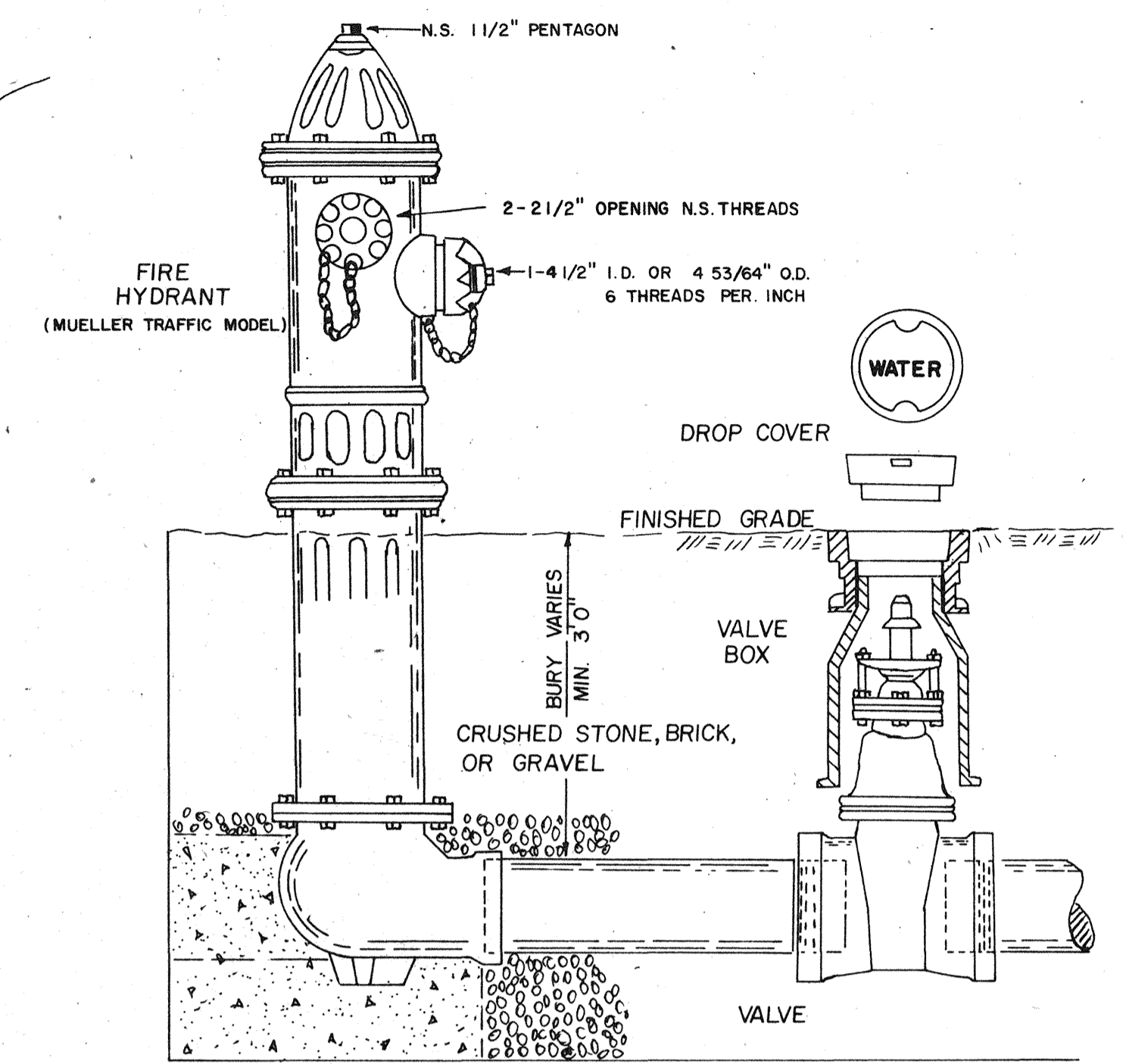
PIPE SIZE	1/4 BEND		1/8 BEND		PLUGS & TEES		
	C.I. (M.J.)	A.C. PVC (M.J.)	C.I. (M.J.)	A.C. PVC (M.J.)	C.I. (M.J.)	A.C. PVC (M.J.)	PVC (M.J.)
4-6	3	3	3	3	3	3	3
8	3	4	3	3	3	3	
10	4	6	3	3	3	3	
12	6	8	3	5	4	4	
16	11		4		7		
20	18		8		12		
24	27		12		18		

NOTE: Area of Bearing Face in Square Feet

TYPICAL CREEK CROSSING INSTALLATION



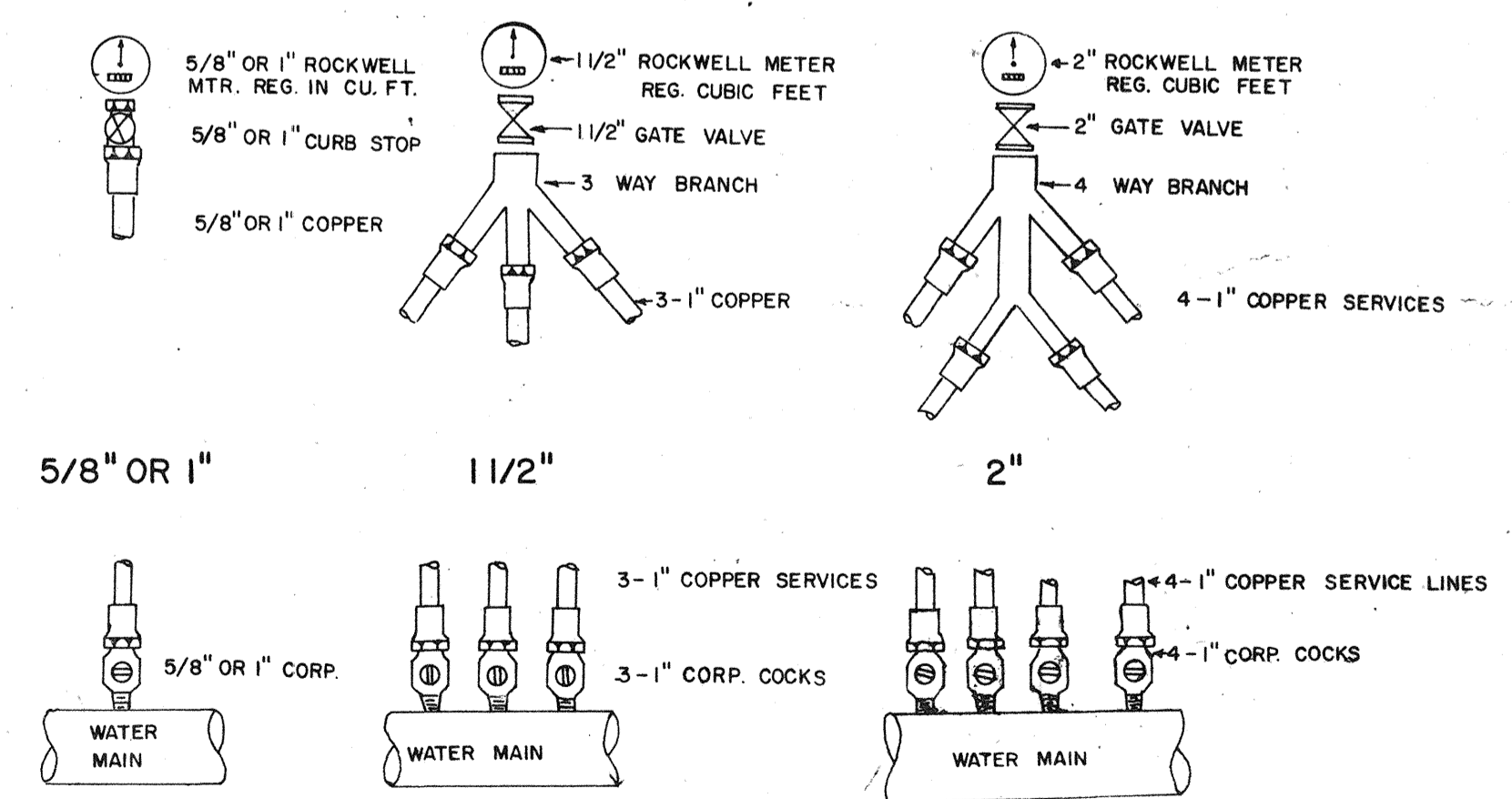
TYPICAL FIRE HYDRANT INSTALLATION



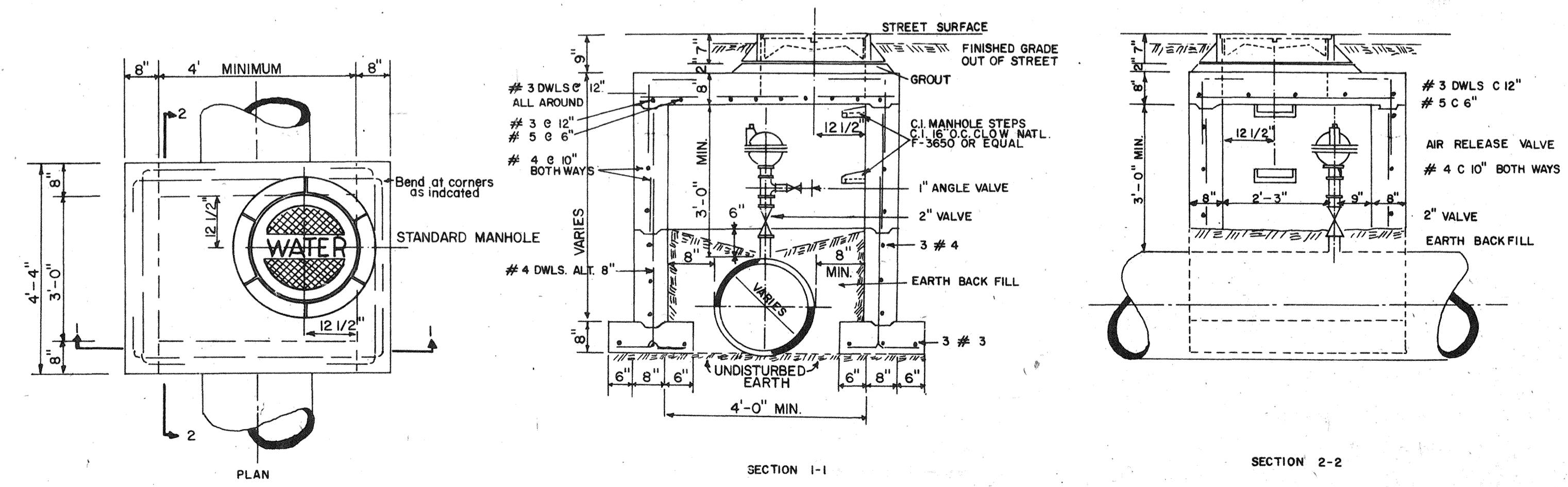
NOTE: GATE VALVES WILL BE REQUIRED WHEN CONNECTED TO 10" DIAMETER OR LARGER MAINS.

FIRE HYDRANT INSTALLATION PLANS

TYPICAL METER SERVICE ASSEMBLY



AIR RELEASE VALVE STRUCTURE



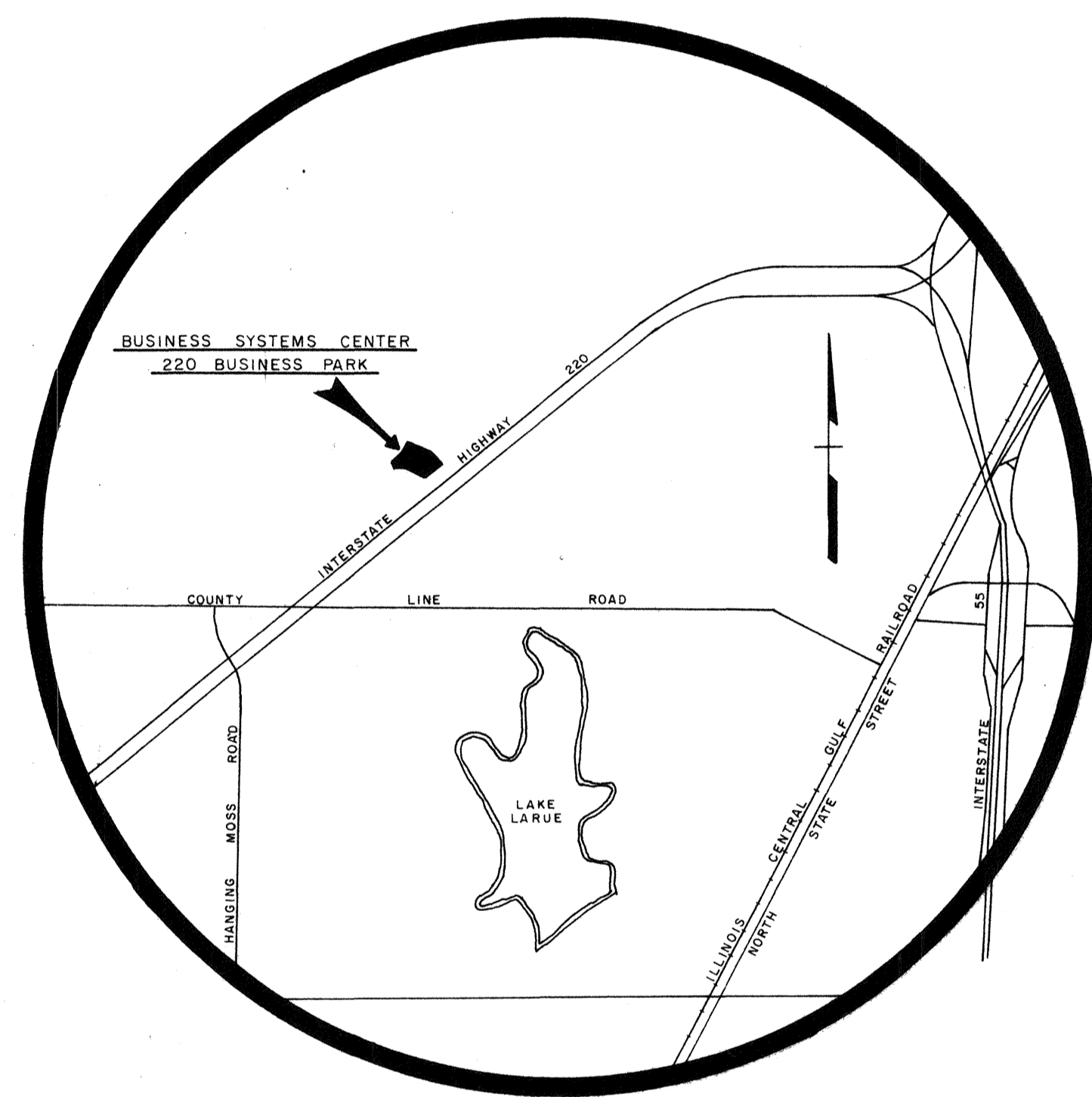
AS-BUILT  
Date: 5-28-86

CITY OF JACKSON  
JACKSON, MISS.

WATER DETAIL SHEET

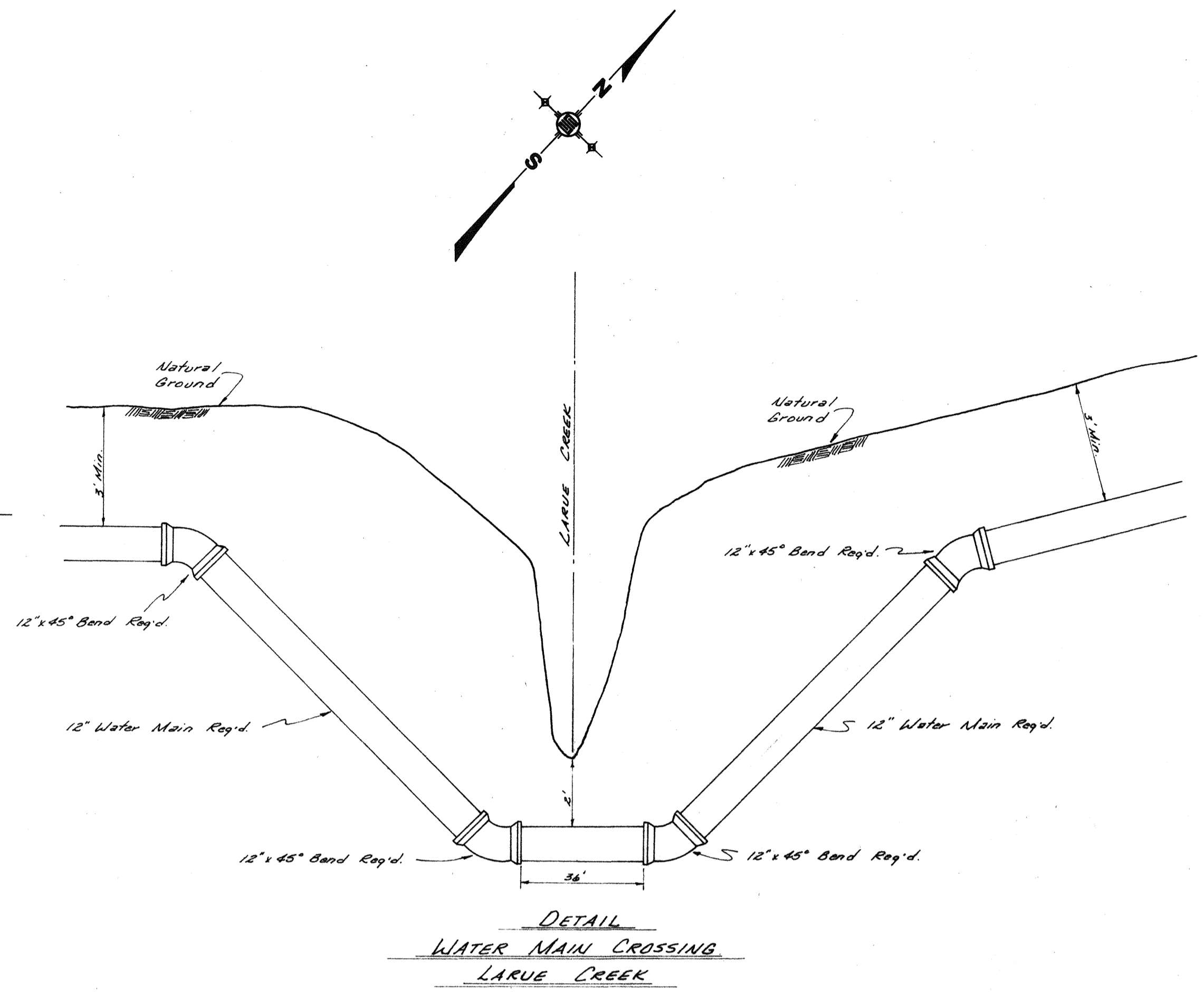
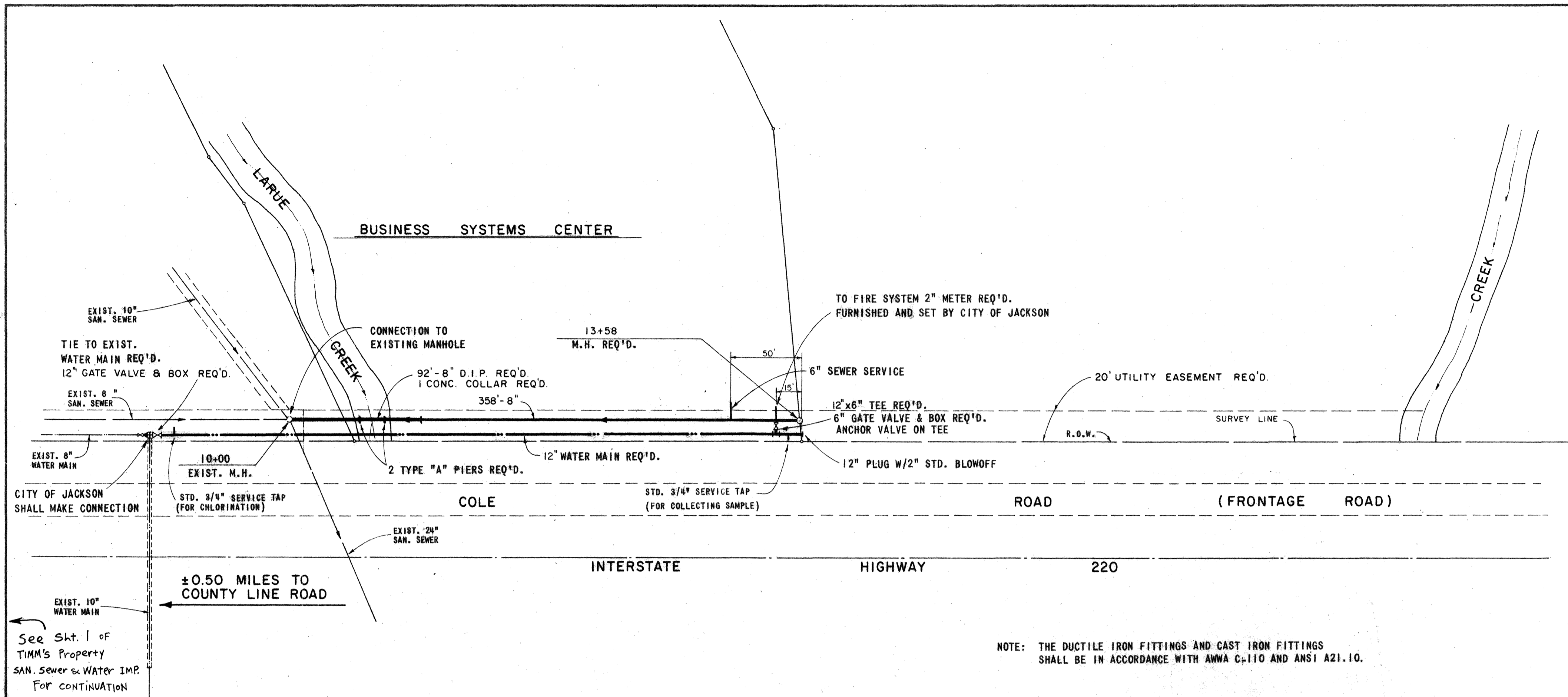
DRAWN J.M.B.	SHEET 2
DATE 3-14-74	

QM-1613 (5)

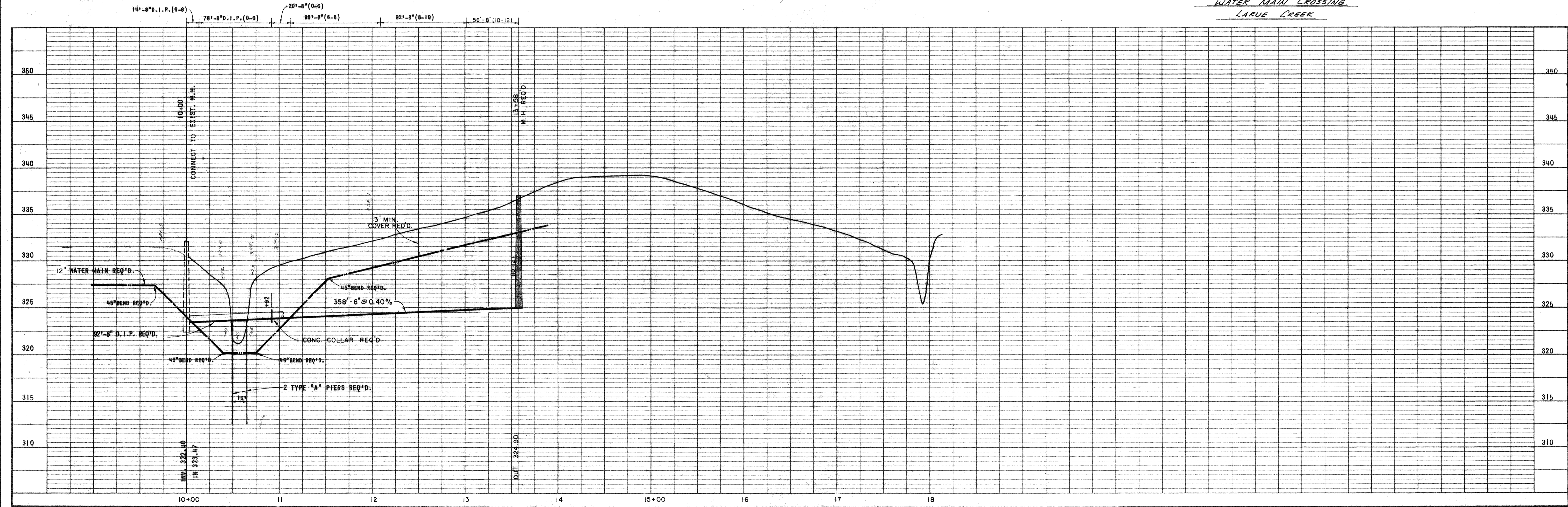


BUSINESS SYSTEMS CENTER  
220 BUSINESS PARK  
SANITARY SEWER AND WATER IMPROVEMENTS  
MADISON COUNTY, MISSISSIPPI

*TIMMS PL-02*



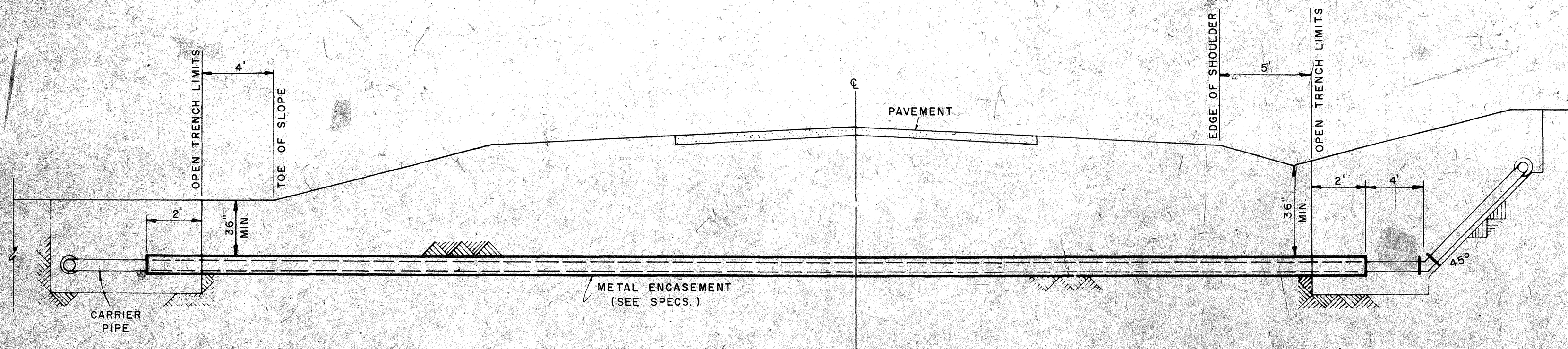
NOTE: THE DUCTILE IRON FITTINGS AND CAST IRON FITTINGS SHALL BE IN ACCORDANCE WITH AWWA C-110 AND ANSI A21.10.



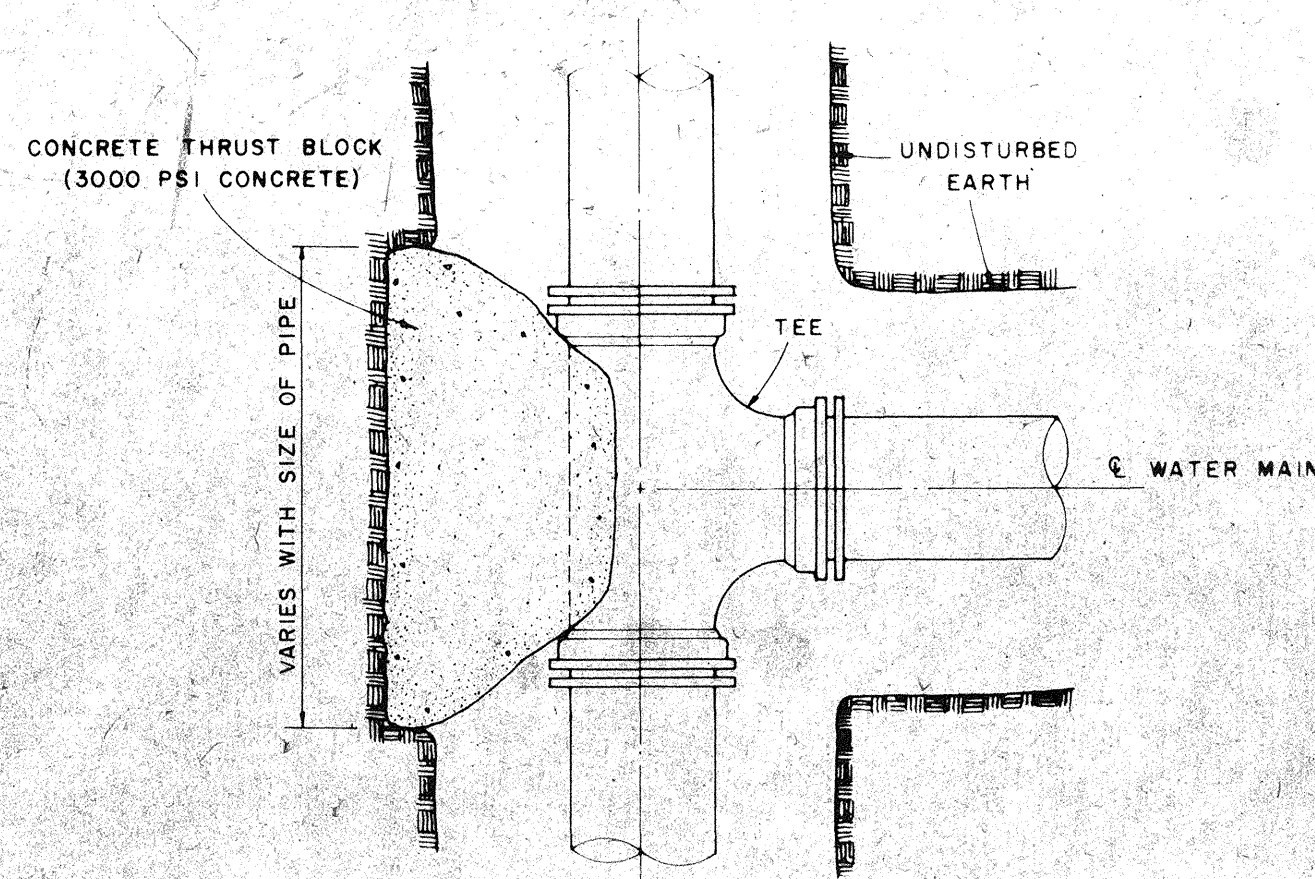
DESIGNED J.B.W.		DATE DEC. 84		<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI			PLAN - PROFILE <b>496</b> BUSINESS SYSTEMS CENTER 220 BUSINESS PARK	PROJECT NO. <b>496</b>
DRAWN M.C.		SCALE 1" = 50'						CHECKED J.B.W.
NO.	DATE	NATURE REVISIONS	BY	APP'D.				

Q.M. 1615 151

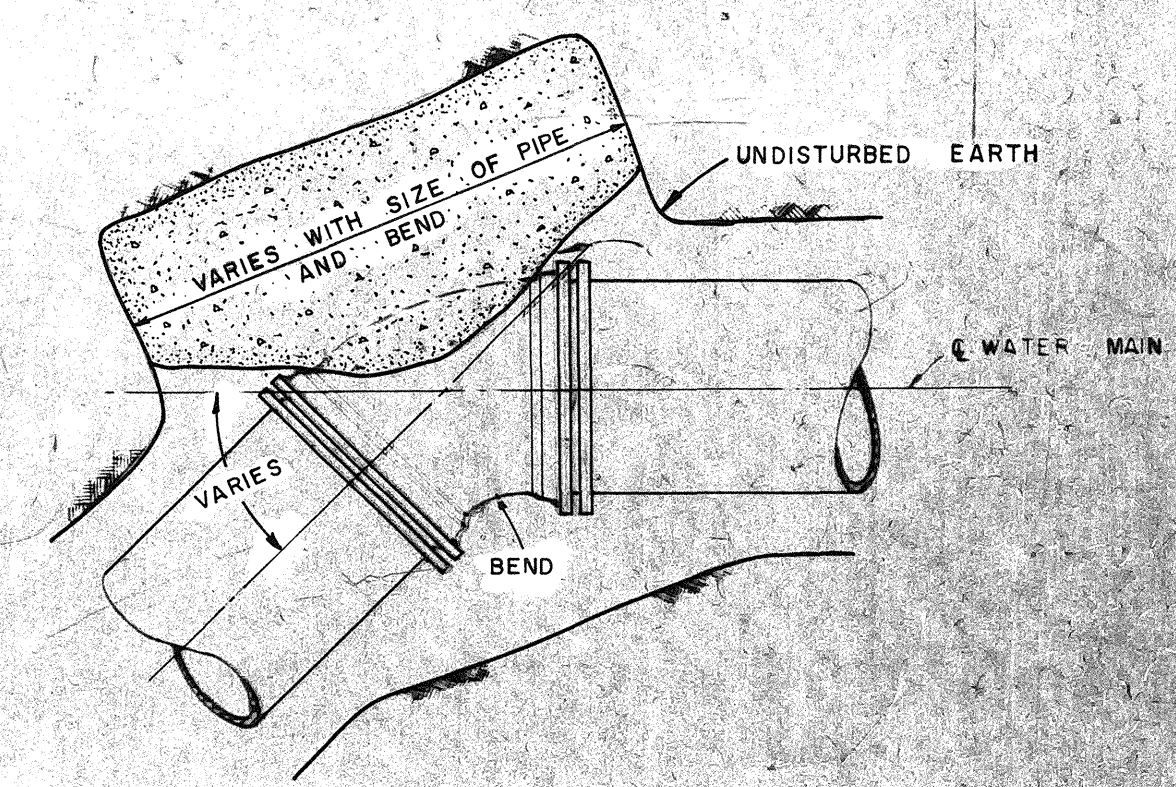




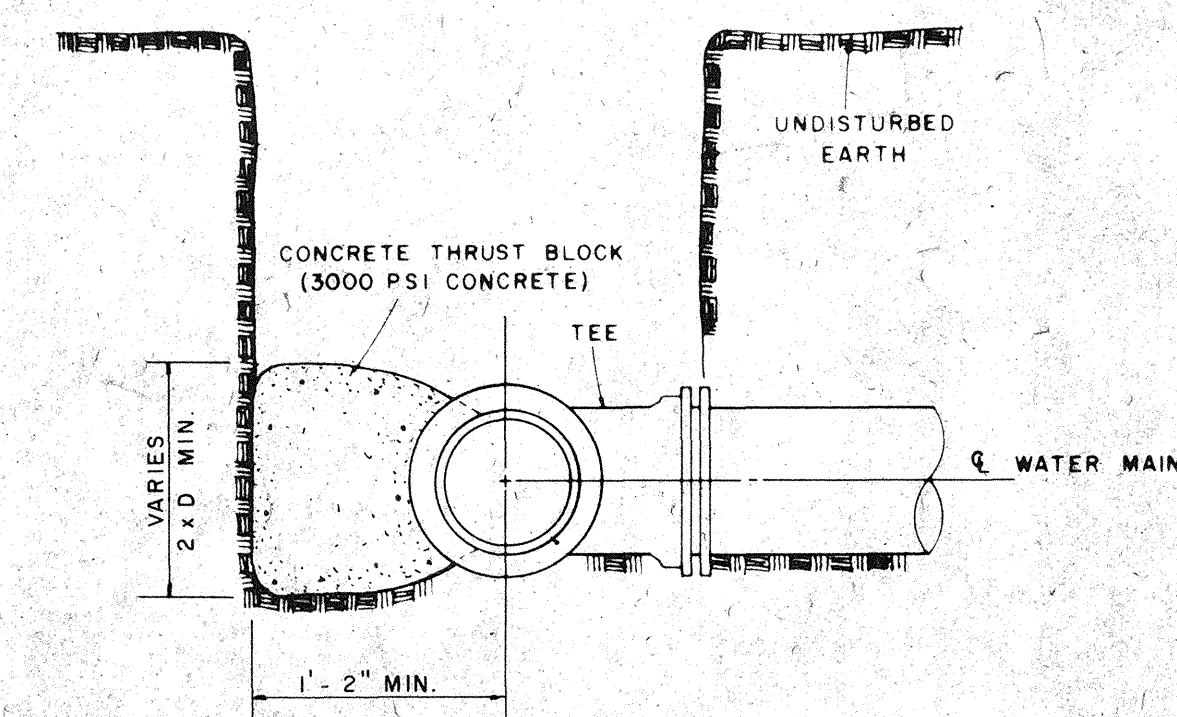
TYPICAL CASSED CROSSING



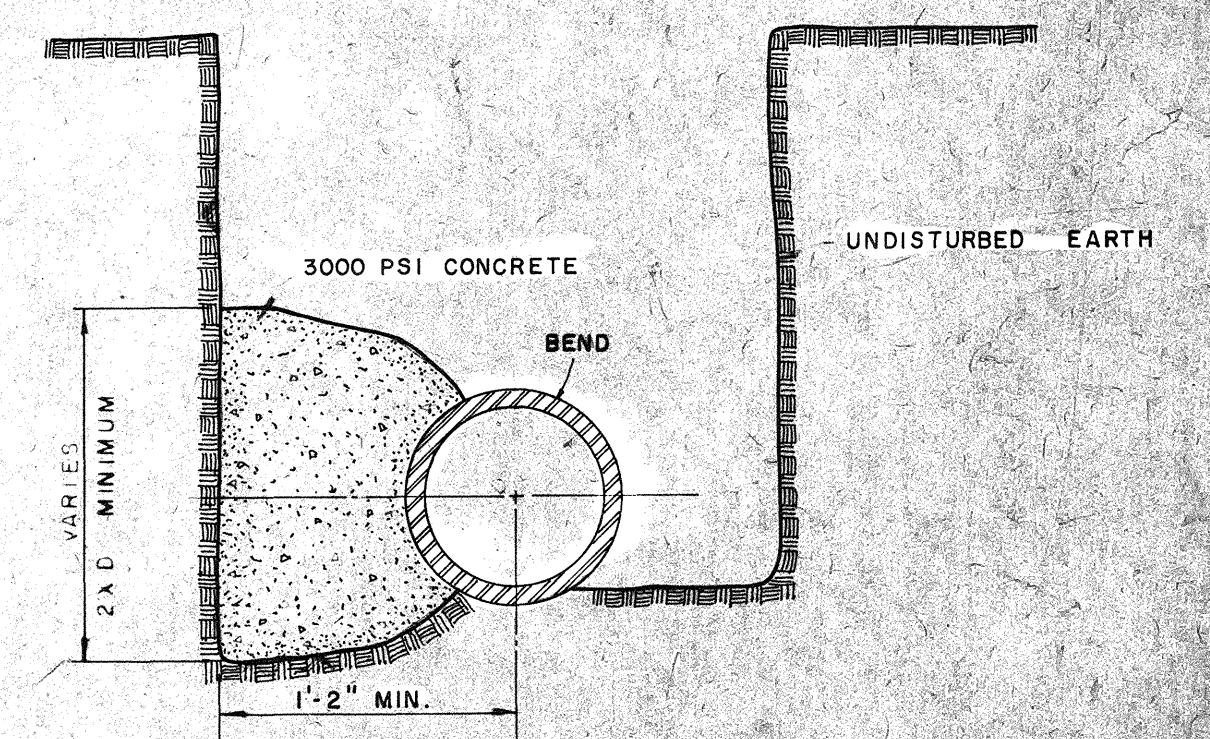
PLAN



PLAN



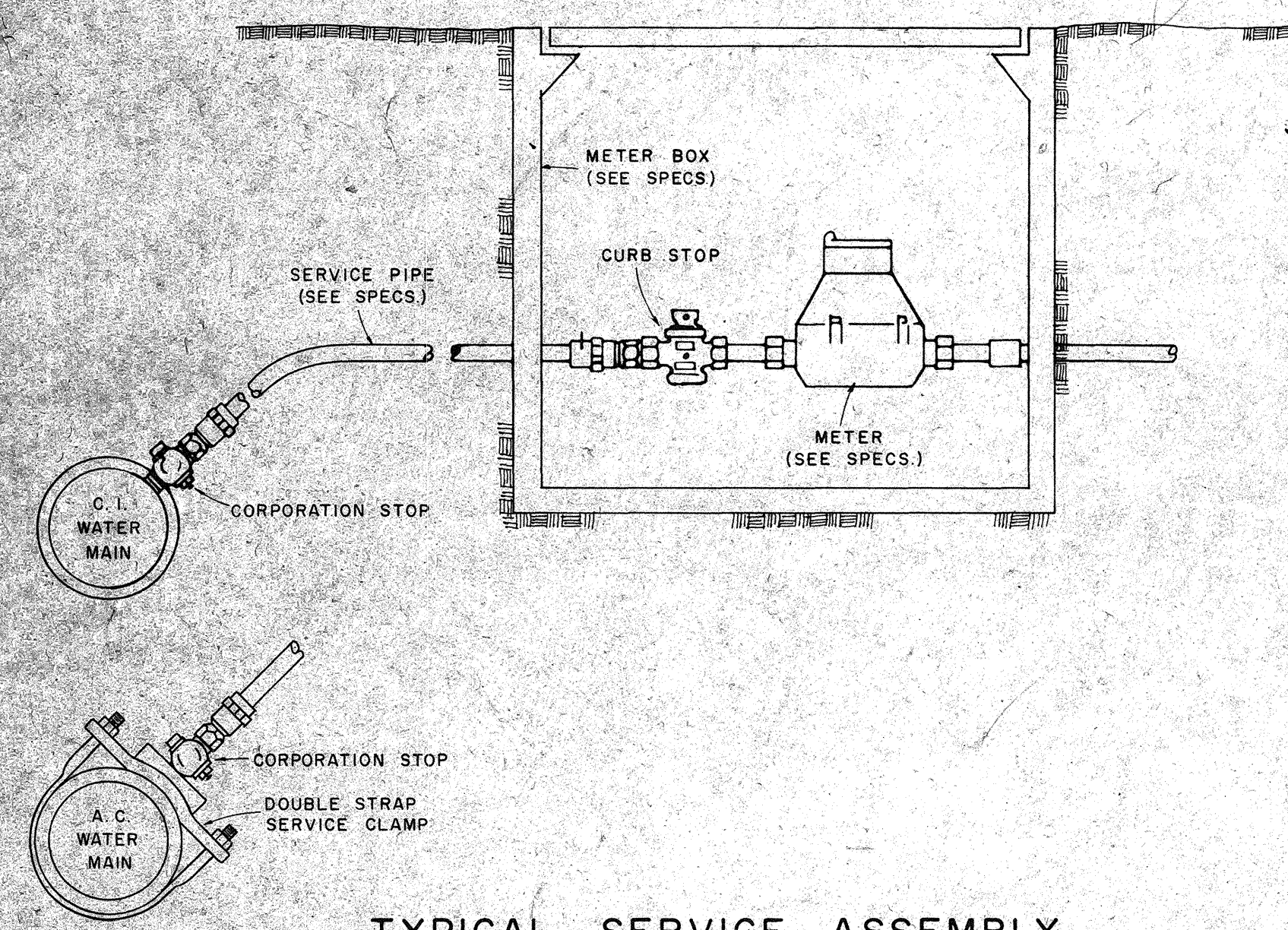
SECTION



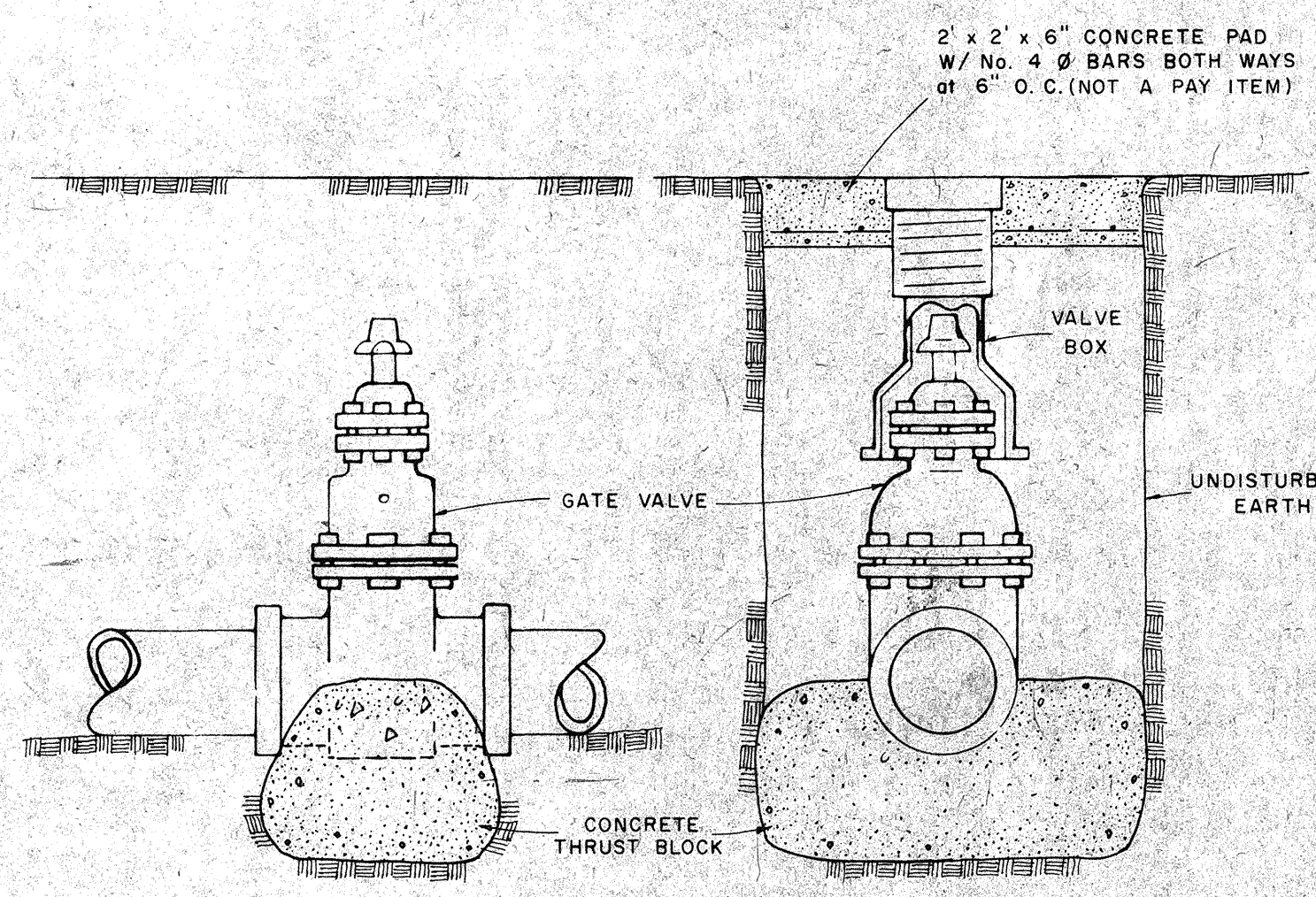
SECTION

BLOCKING DETAILS FOR TEES & BENDS

NOTE: COMPENSATION FOR CONCRETE THRUST BLOCKS SHALL BE INCLUDED IN UNIT PRICE, BID FOR VALVES, FIRE HYDRANTS, AND FITTINGS.



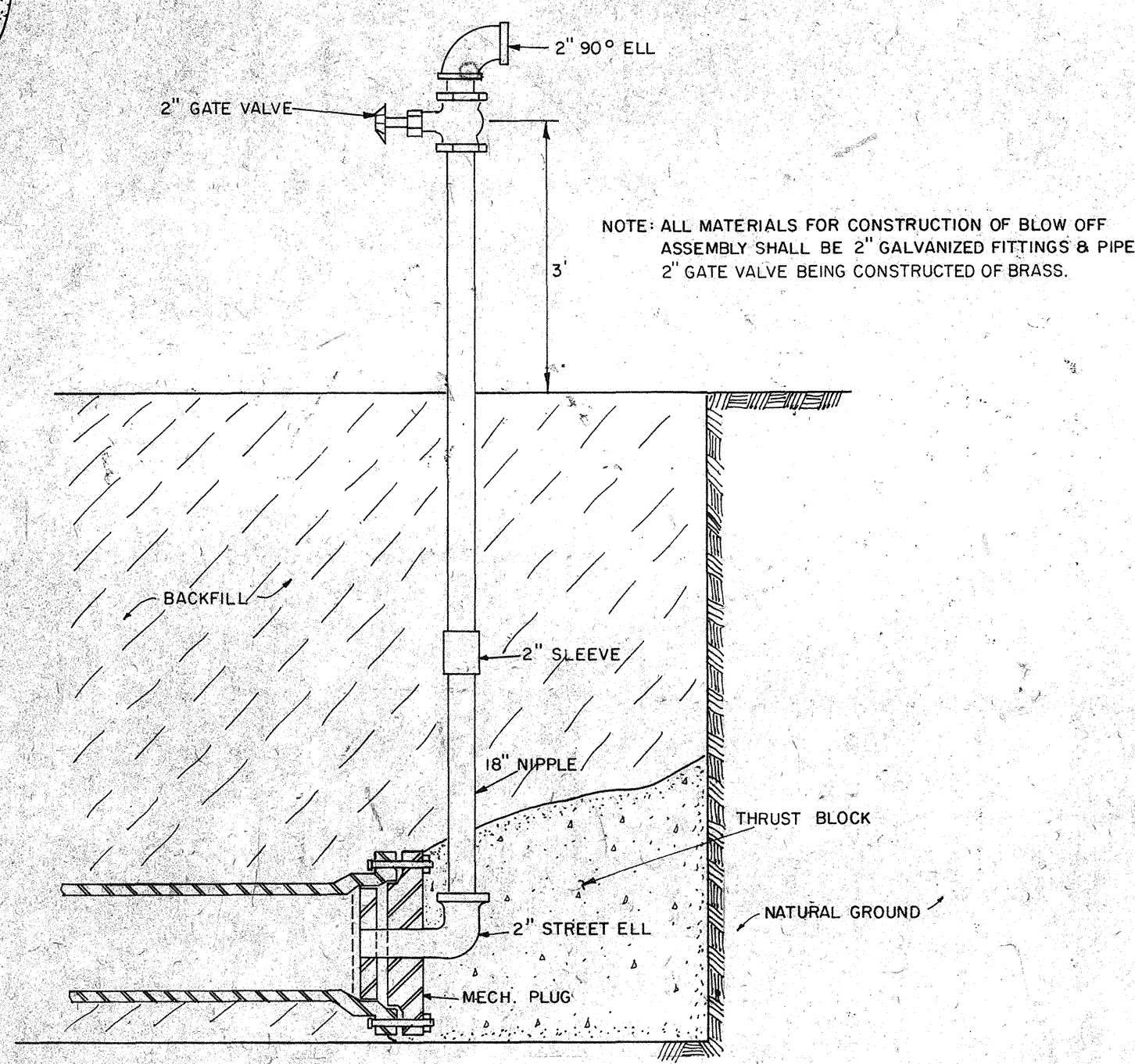
TYPICAL SERVICE ASSEMBLY



ELEVATION

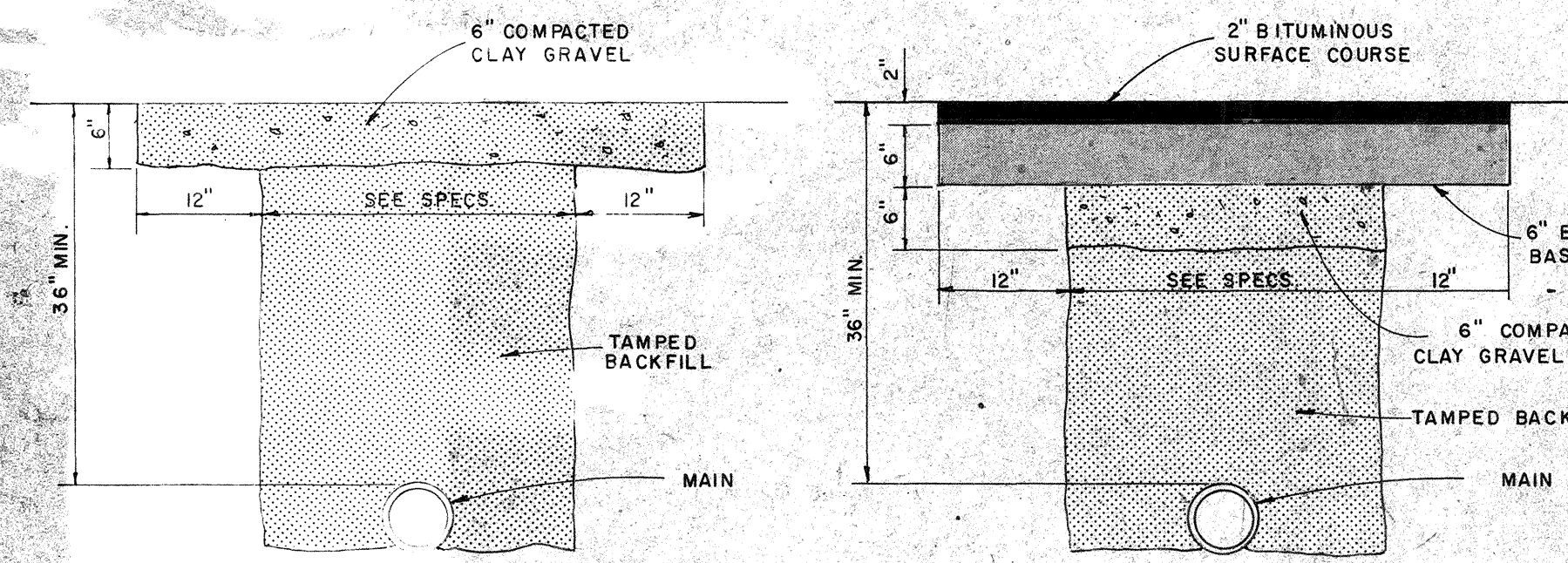
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TYPICAL VALVE & BOX



BLOW OFF ASSEMBLY

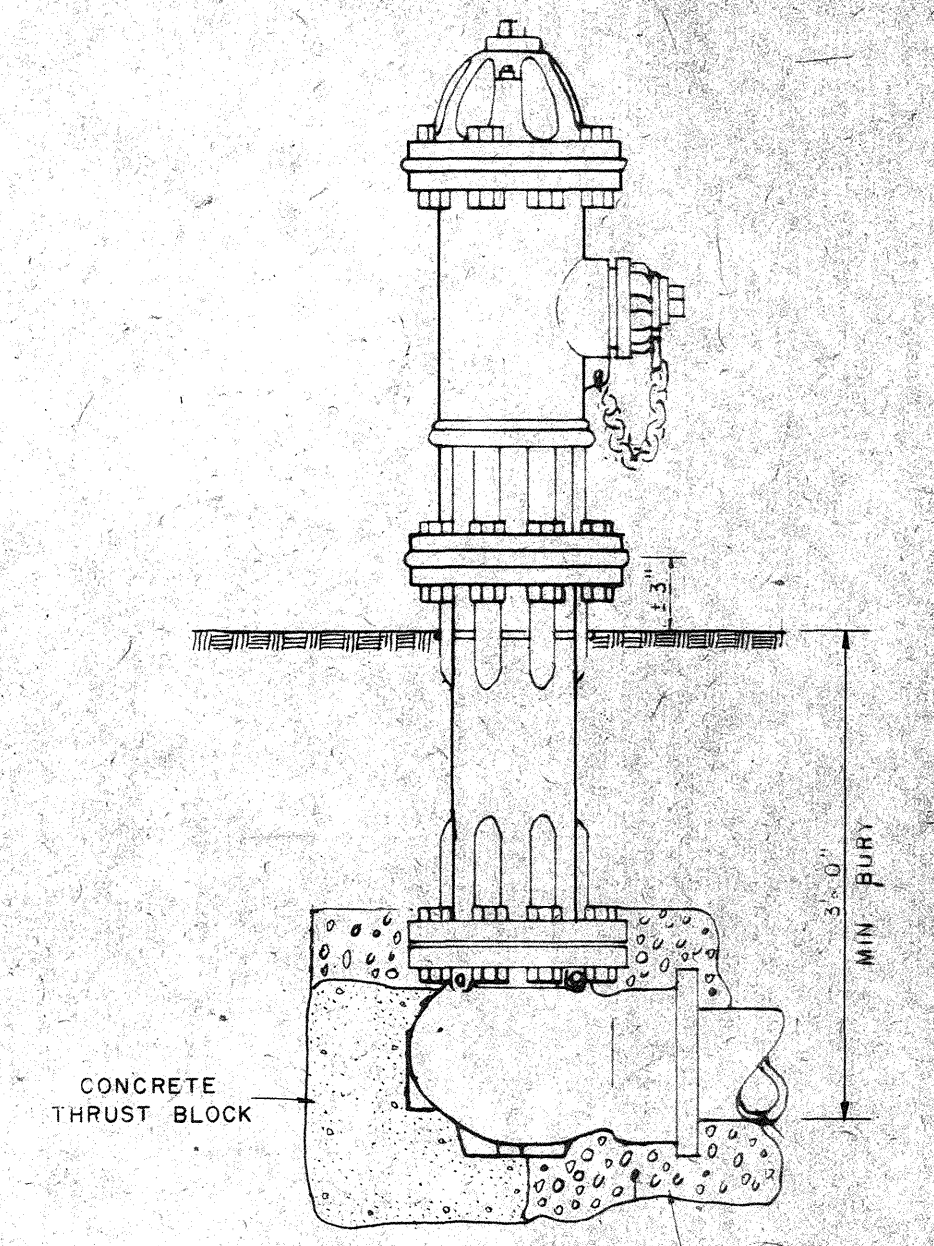
NOTE: ALL MATERIALS FOR CONSTRUCTION OF BLOW OFF ASSEMBLY SHALL BE 2\"/>



GRAVEL OR TEMPORARY SURFACE    PERMANENT ASPHALT SURFACE

TYPICAL TRENCH SECTIONS

ACROSS IMPROVED SURFACE AREAS



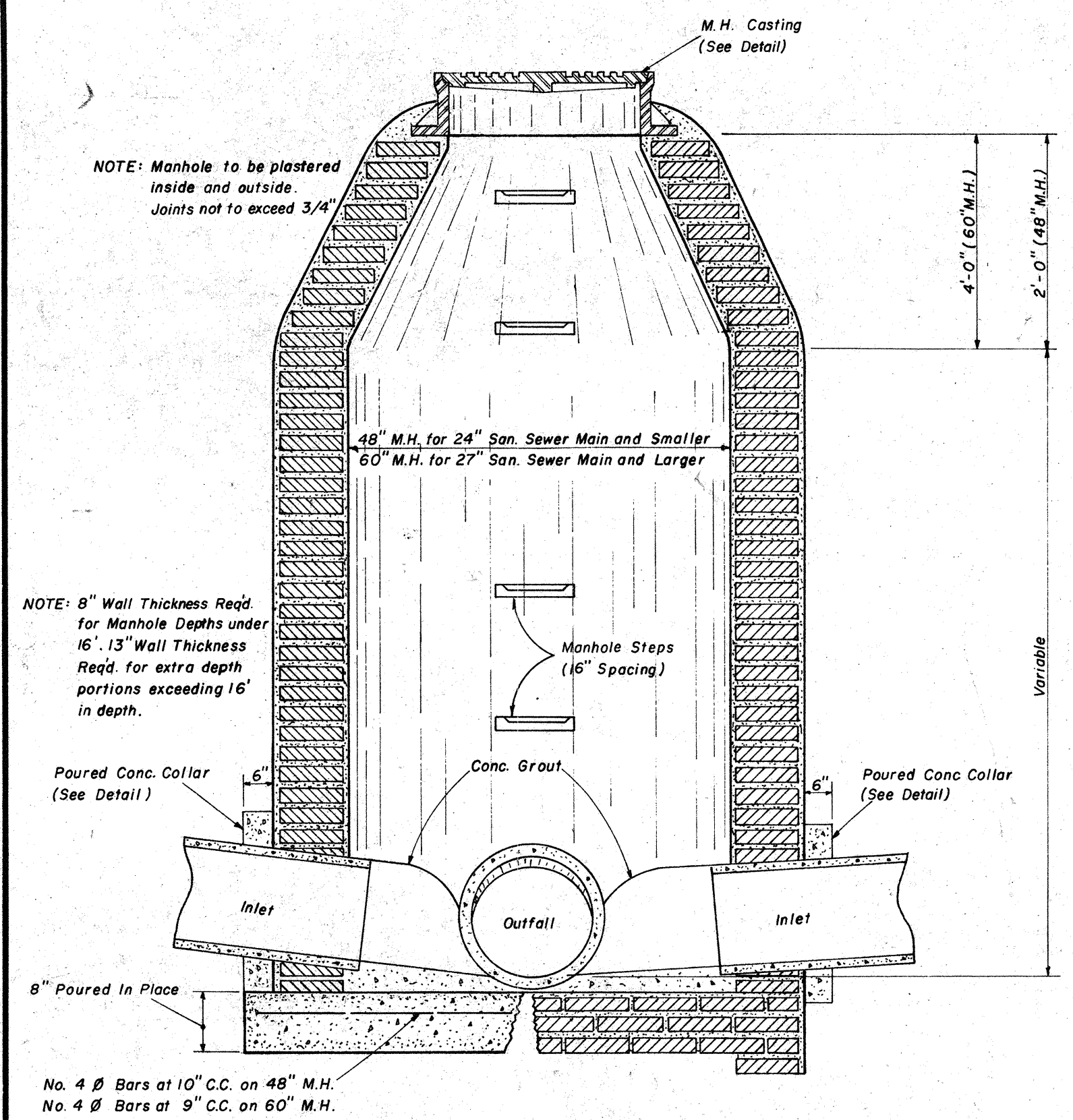
TYPICAL FIRE HYDRANT

5 CU FT GRAVEL FOR DRAIN (NOT A PAY ITEM)

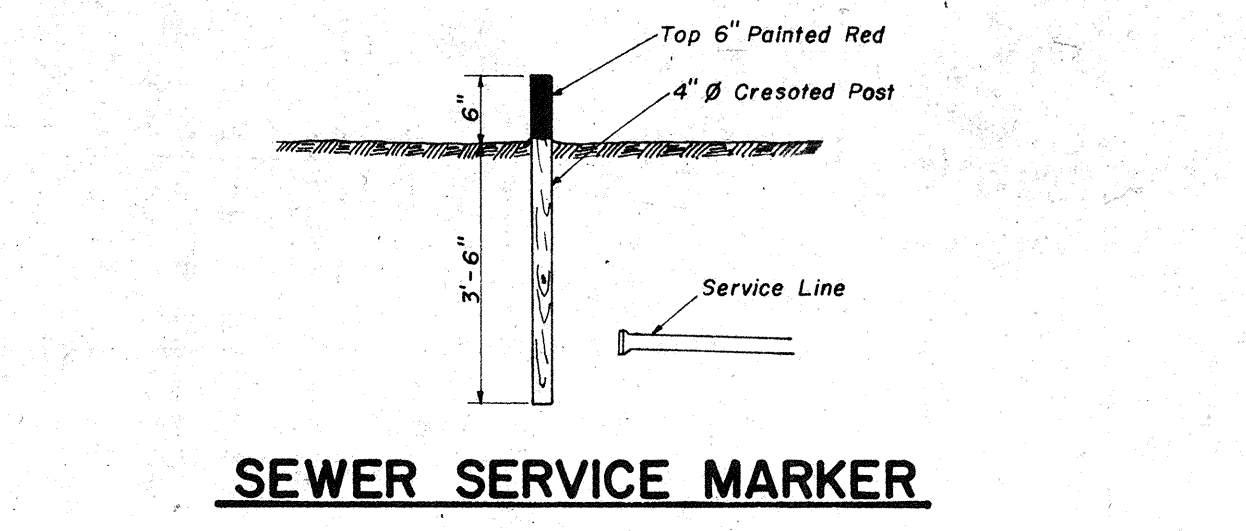
				DESIGNED BY J. L. J.	DATE 7-18-77			<p>WATER STANDARD CONSTRUCTION DETAILS</p>	PROJECT NO.
				DRAWN BY D. B.	SCALE N.T.S.				SHEET NO.
NO.	DATE	NATURE	BY	APP'D.	CHECKED BY	FILE NO.			
2	8-16-82	ADD BLOWOFF ASSEMBLY	R.C.	D.B.	J. L. J.				
1	3-17-80	ADD TYPICAL TRENCH SECTIONS	G.W.	J.L.J.	J. L. J.				
				REVISIONS					

UNDERWOOD DEVELOPMENT COMPANY  
ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS  
JACKSON, MISSISSIPPI

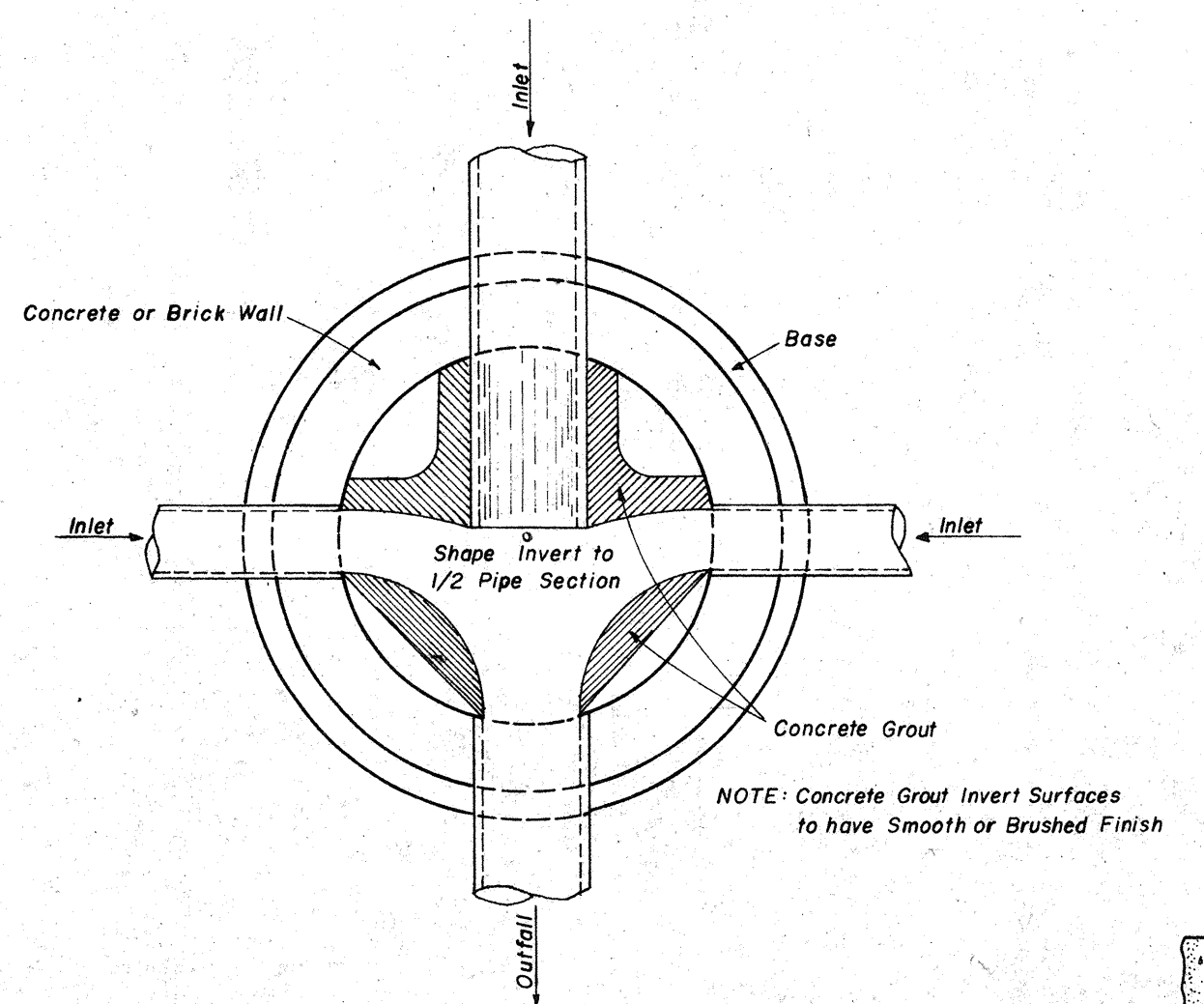
Q.M.-1615.151



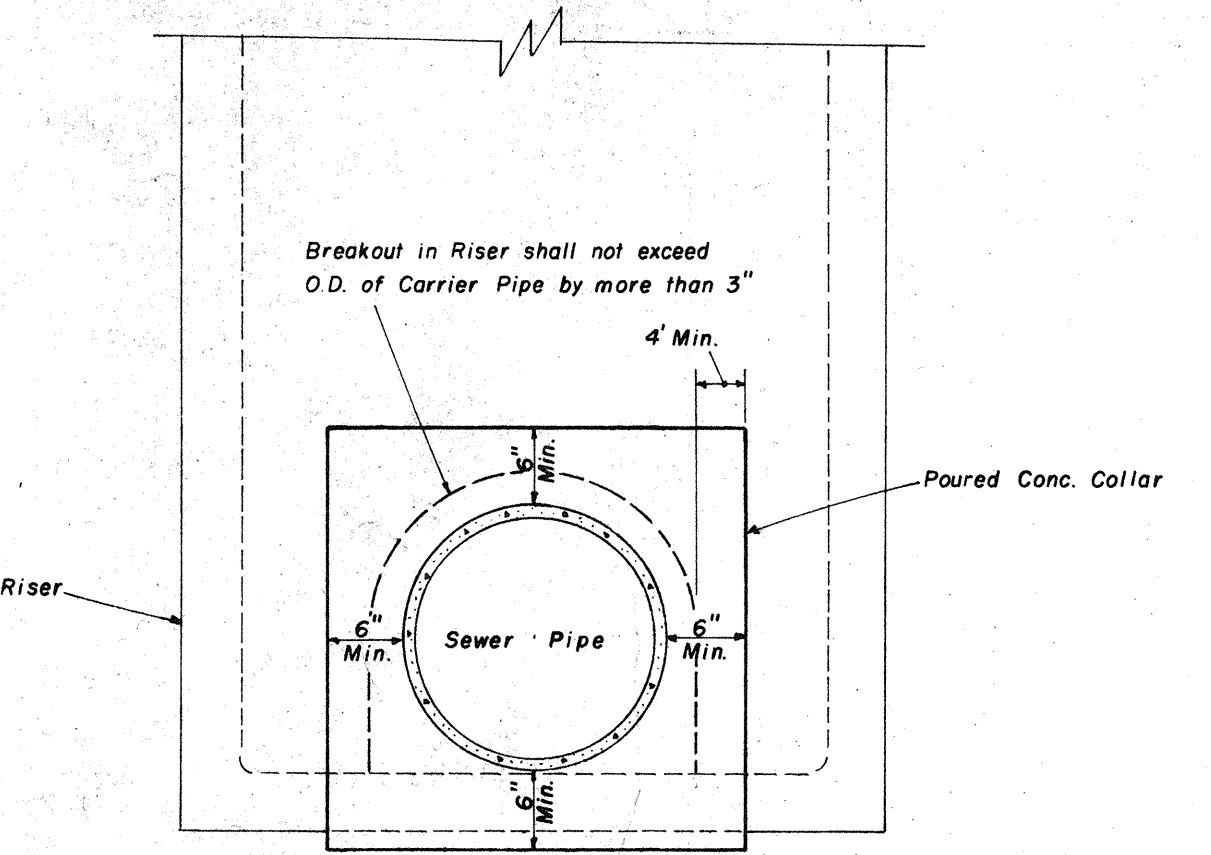
**SECTION  
STANDARD BRICK MANHOLE**



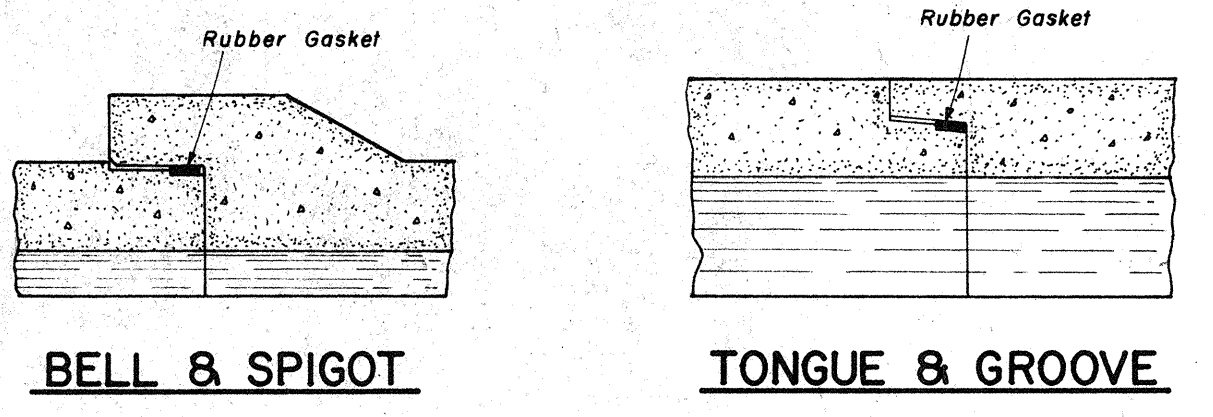
**SEWER SERVICE MARKER**



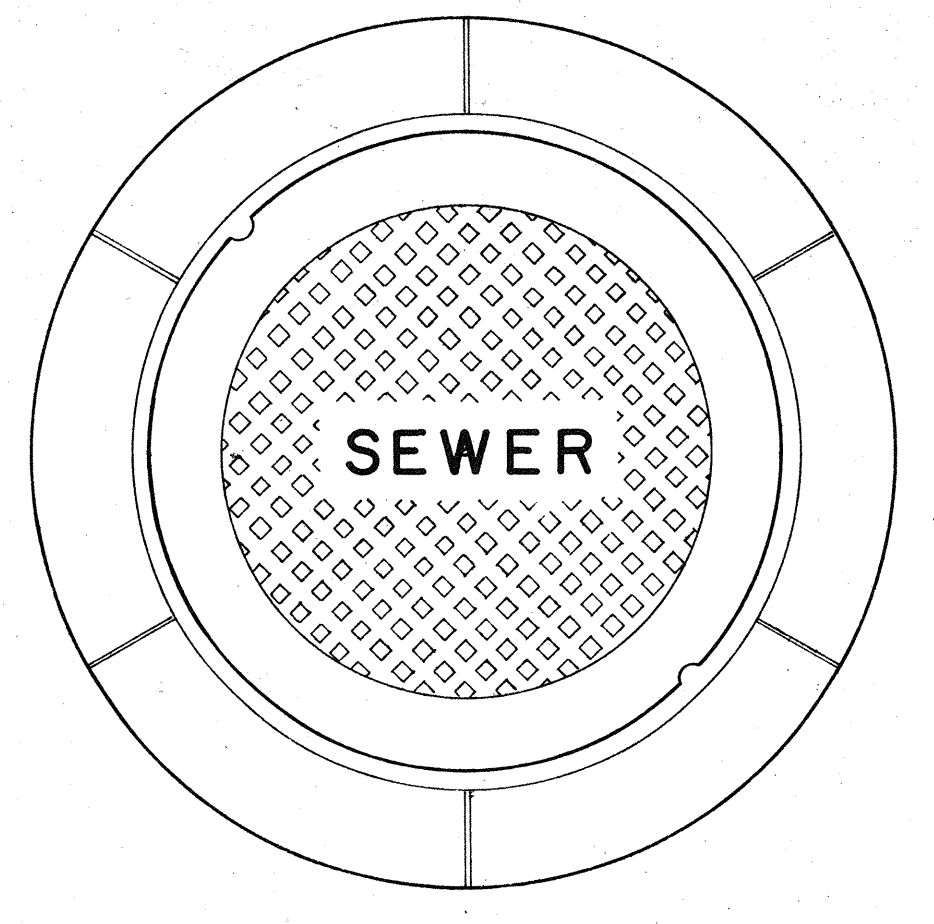
**PLAN OF MANHOLE  
FLOW CHANNELS**



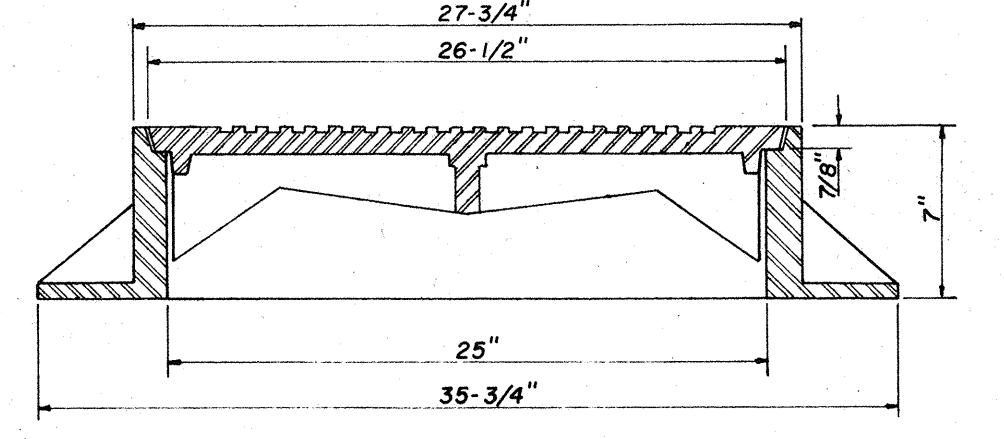
**ELEVATION  
CONCRETE COLLAR AT  
MANHOLE CONNECTION**



**JOINT DETAILS**

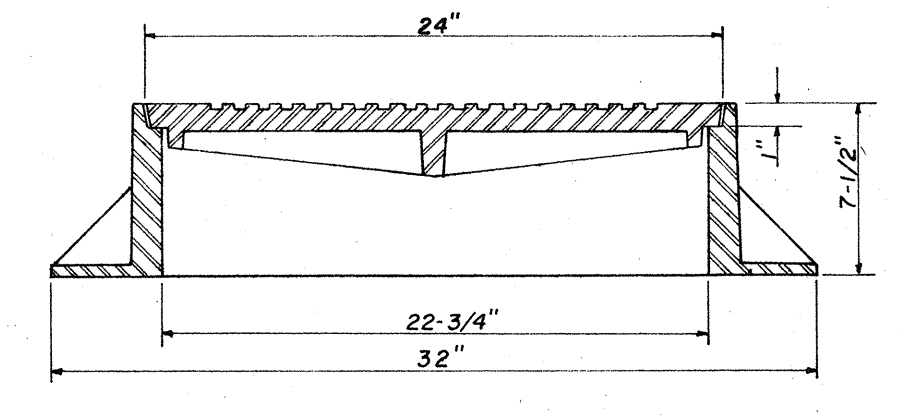


**PLAN  
MANHOLE CASTING**



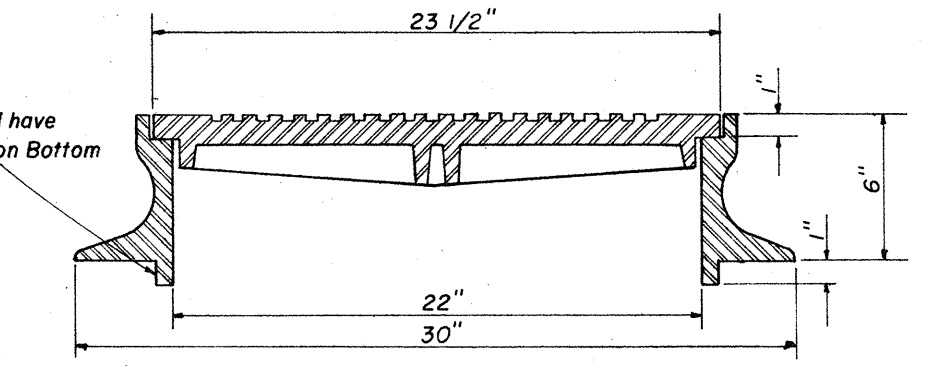
**SECTION  
TYPE \"/>**

NOTE: 1. Use Type "A" Manhole Casting in Street R.O.W.  
2. Use Harper No. 2, City of Jackson Standard (420 lbs.) or Vulcan No. VM-15, City of Jackson Standard (420 lbs.)



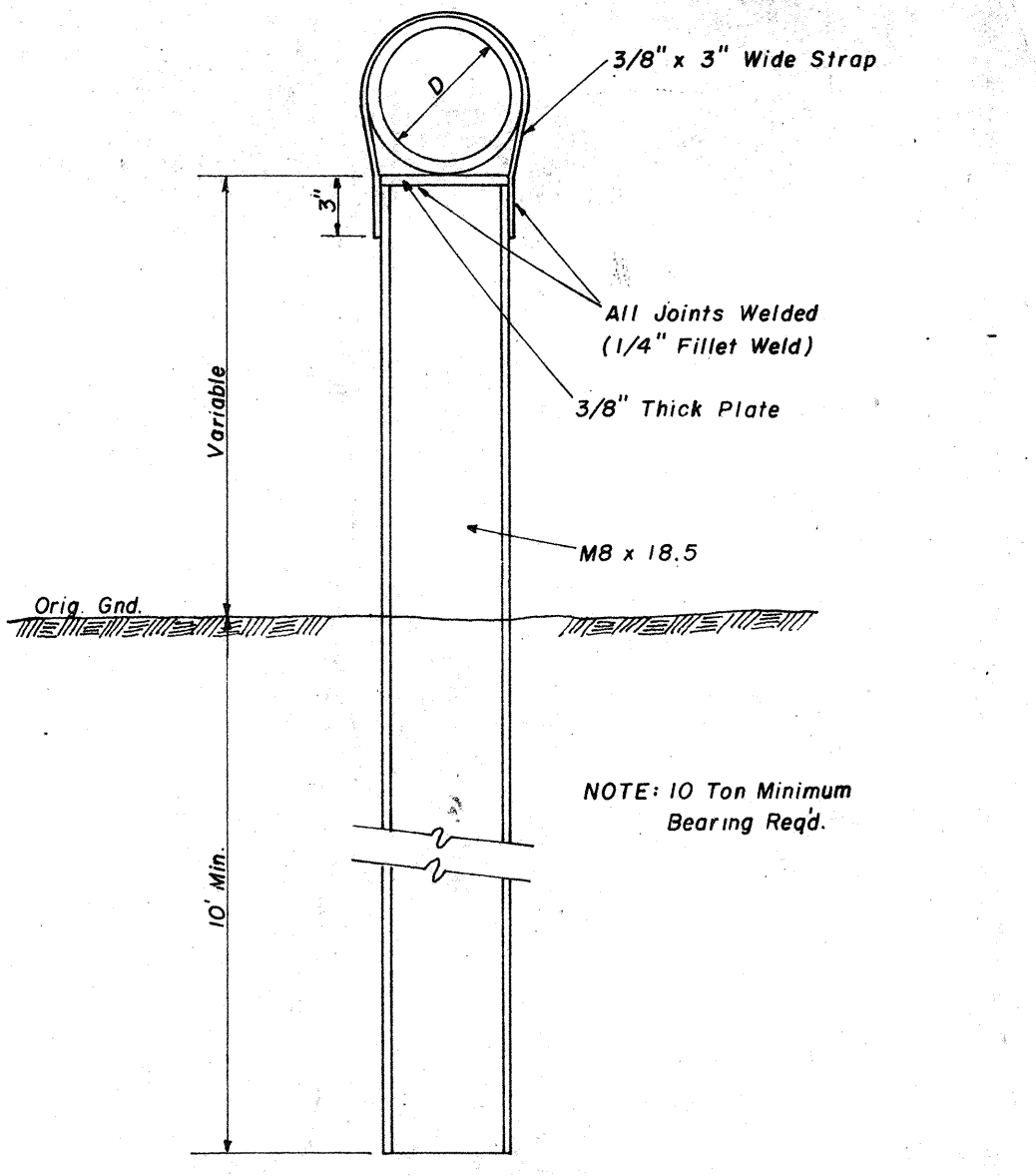
**SECTION  
TYPE \"/>**

NOTE: 1. Use Type "B" Manhole Casting for any Manhole not in a Street R.O.W.  
2. Use Harper NO. 1 (M.S.P.E. Standard) Light Weight (330 lbs.) or Vulcan No. VM-17 (300 lbs.) or Opelika Foundry No. C-2-1 (325 lbs.)

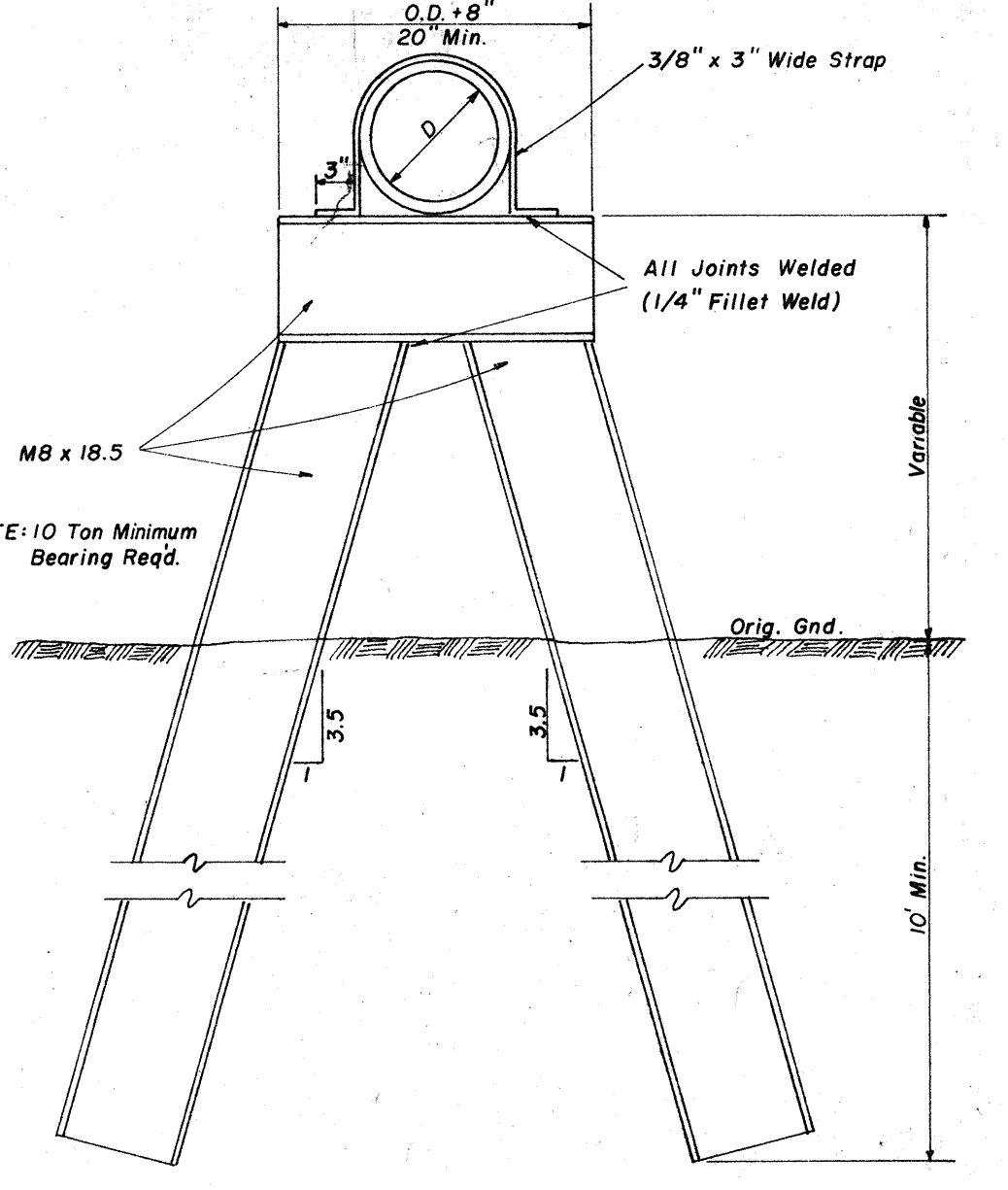


**SECTION  
TYPE \"/>**

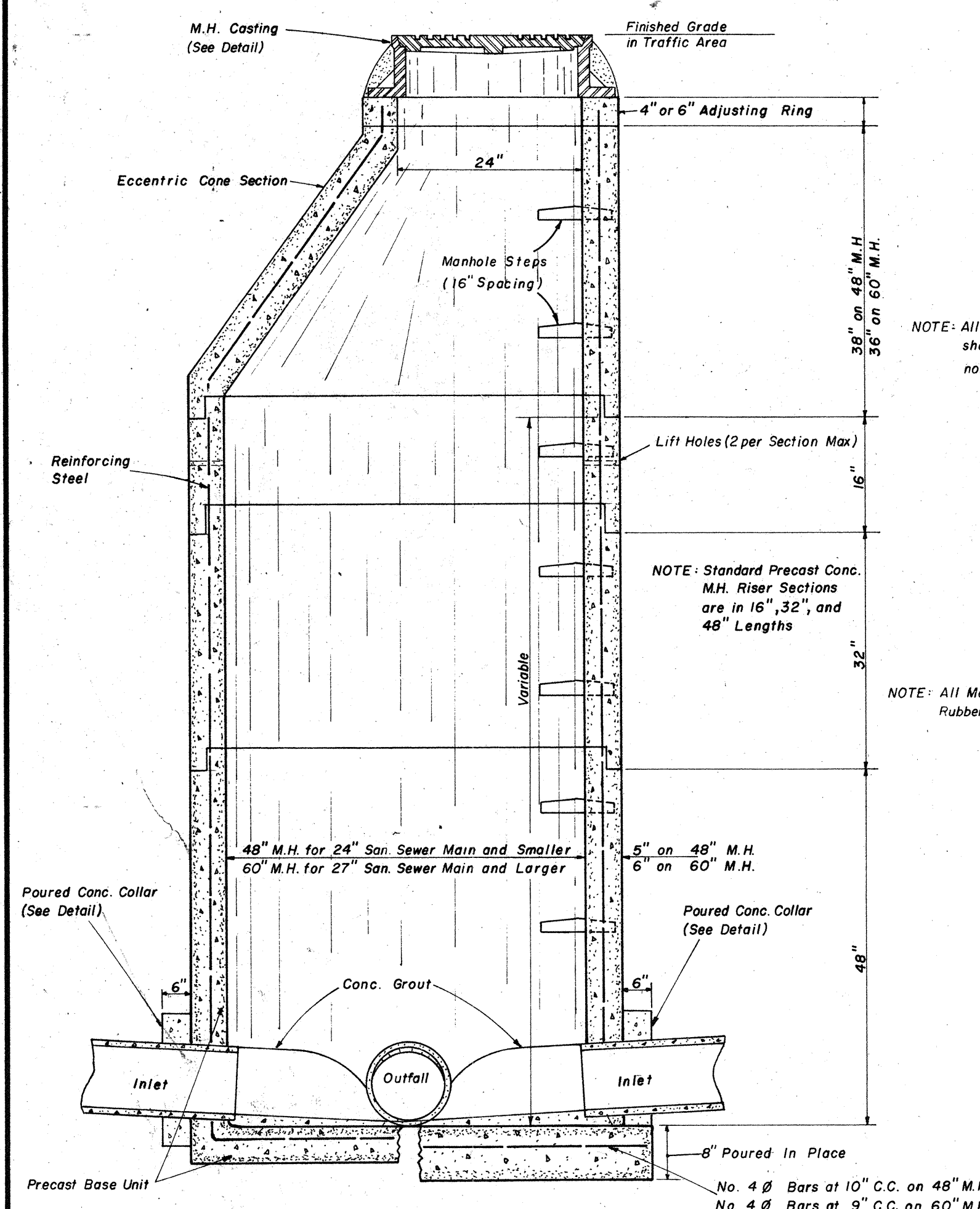
NOTE: 1. Use Type "C" Manhole Casting for Precast Manhole not in a Street R.O.W.  
2. Use Harper NO. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No. VM-7 (330 lbs.)



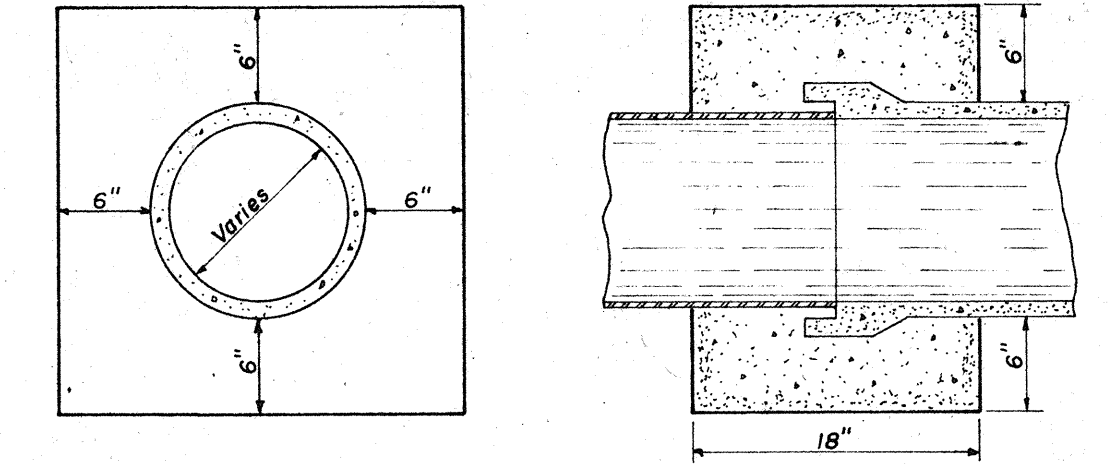
**DETAIL  
TYPE \"/>**



**DETAIL  
TYPE \"/>**



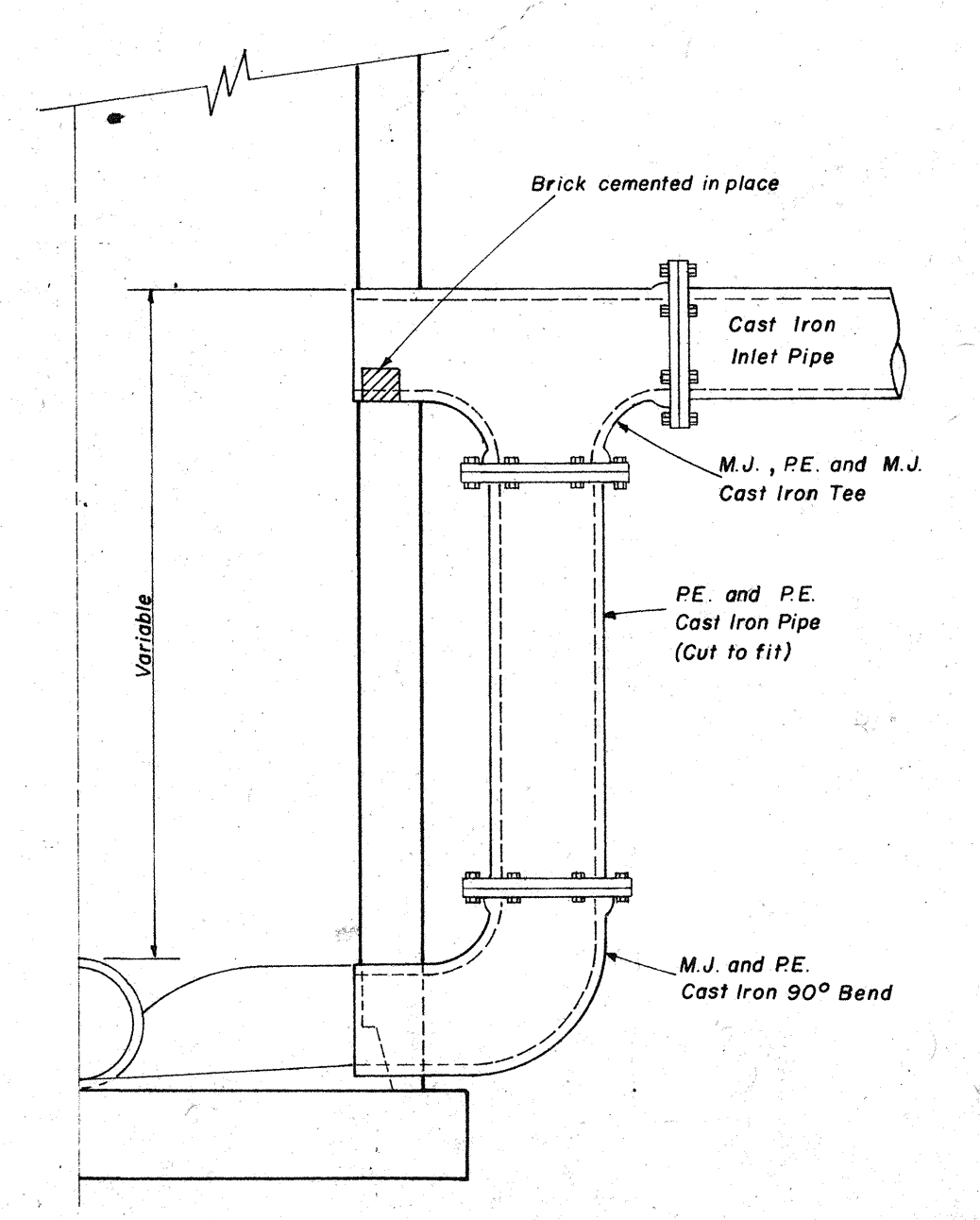
**SECTION  
PRECAST CONCRETE MANHOLE**



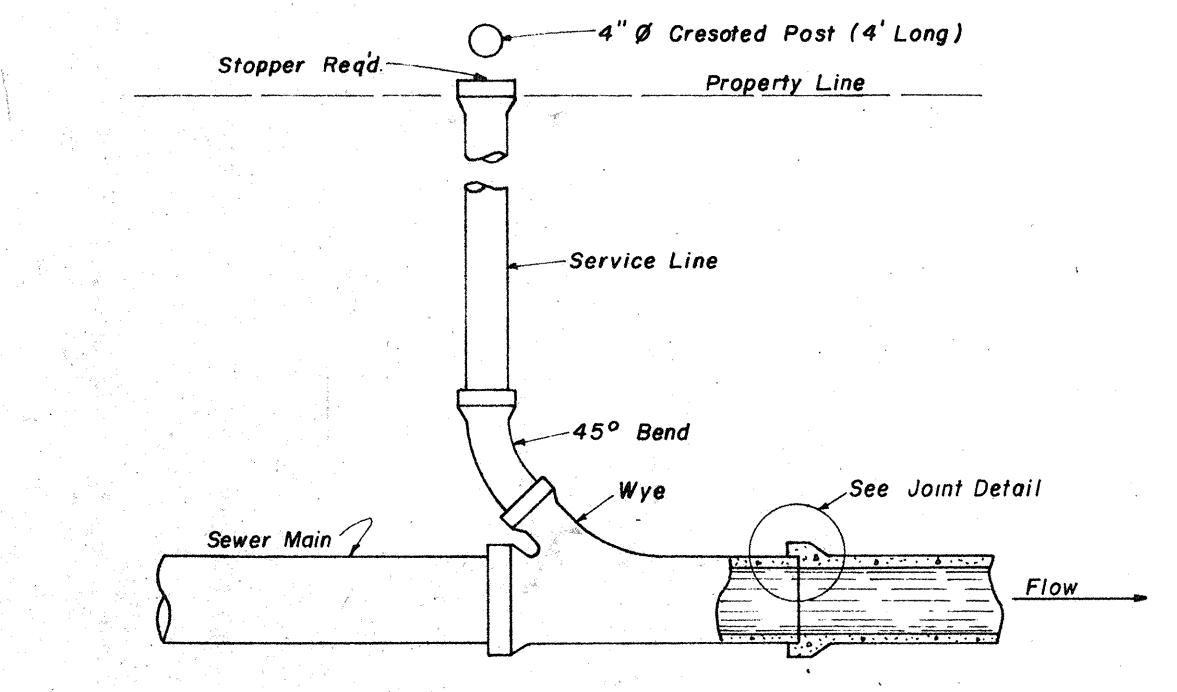
**ELEVATION  
SECTION  
CONCRETE COLLAR DETAILS**

NOTE: All Lift Holes on each Section shall be sealed Watertight with non-shrink Grout inside and outside.

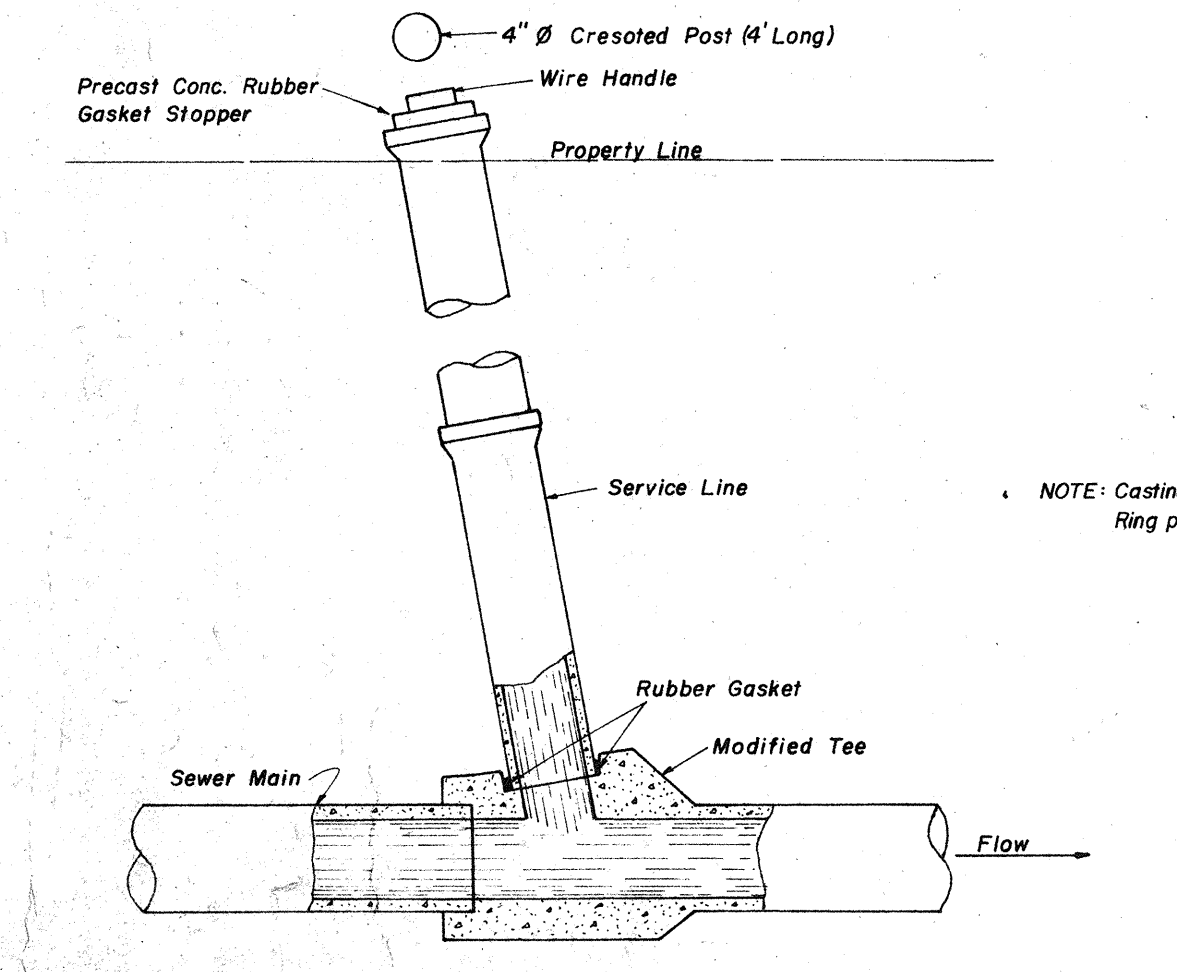
NOTE: All Manhole Joints to be Rubber Gasket



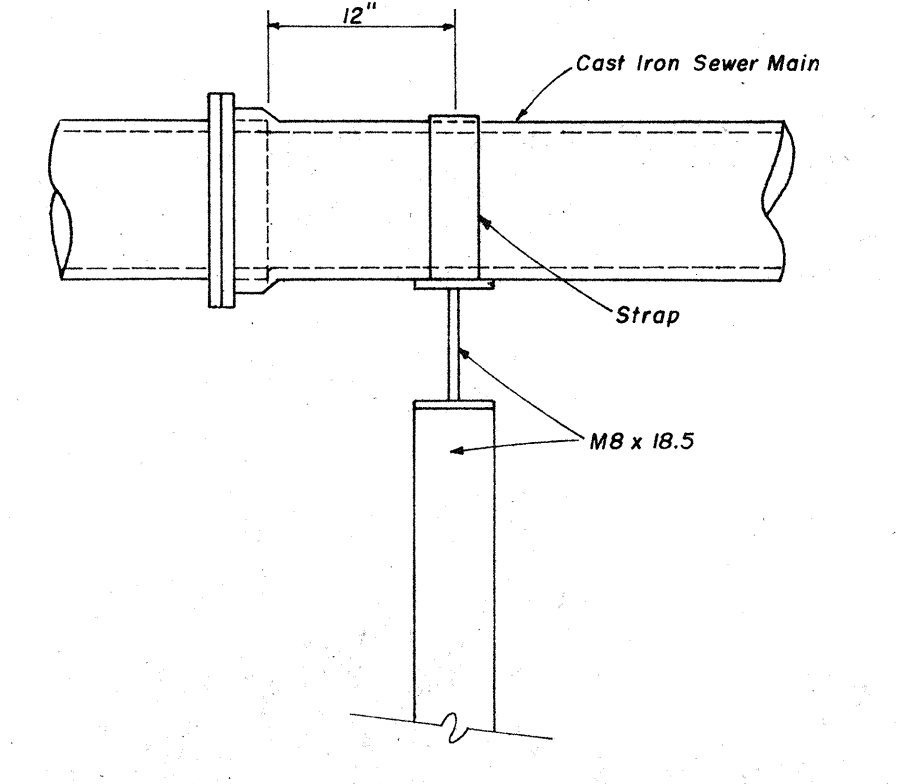
**HALF SECTION  
MANHOLE WITH DROP CONNECTION**



**TYPICAL SERVICE TO PROPERTY LINE  
WITH WYE JOINT**



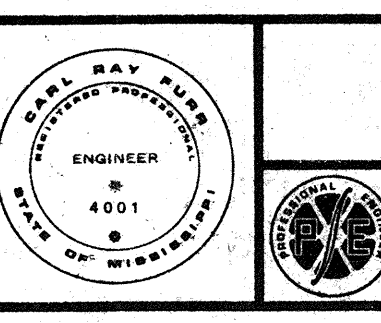
**TYPICAL SERVICE TO PROPERTY LINE  
WITH MODIFIED TEE JOINT**



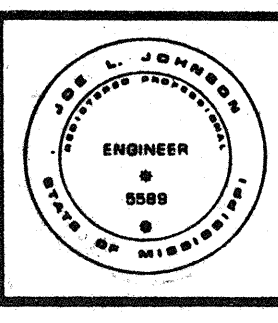
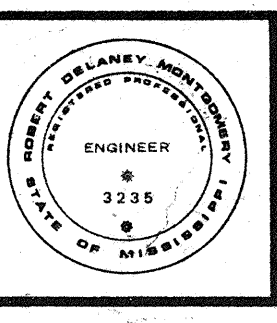
**SIDE ELEVATION  
TYPE \"/>**

NO.	DATE	NATURE	BY	APP'D.

DESIGNED BY J.L.J.	DATE 7-18-77
DRAWN BY R.C.	SCALE AS SHOWN
CHECKED BY J.L.J.	FILE NO.



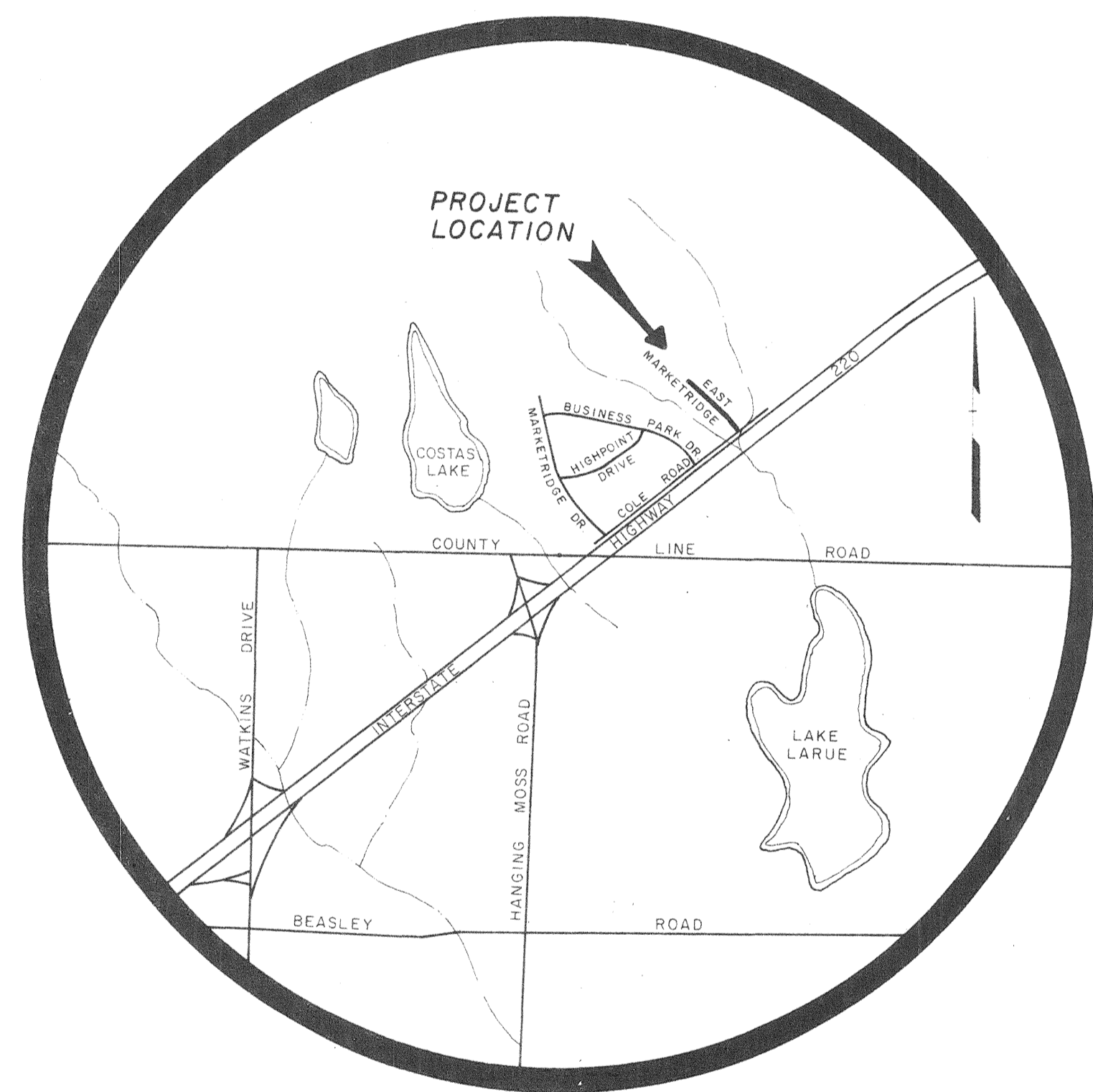
**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
JACKSON, MISSISSIPPI



SANITARY SEWER  
STANDARD CONSTRUCTION DETAILS

PROJECT NO.  
SHEET NO.  
5-1

Q.M-1615 (5) 12



# ***EAST MARKETRIDGE DRIVE***

***MADISON COUNTY, MISSISSIPPI***

QM

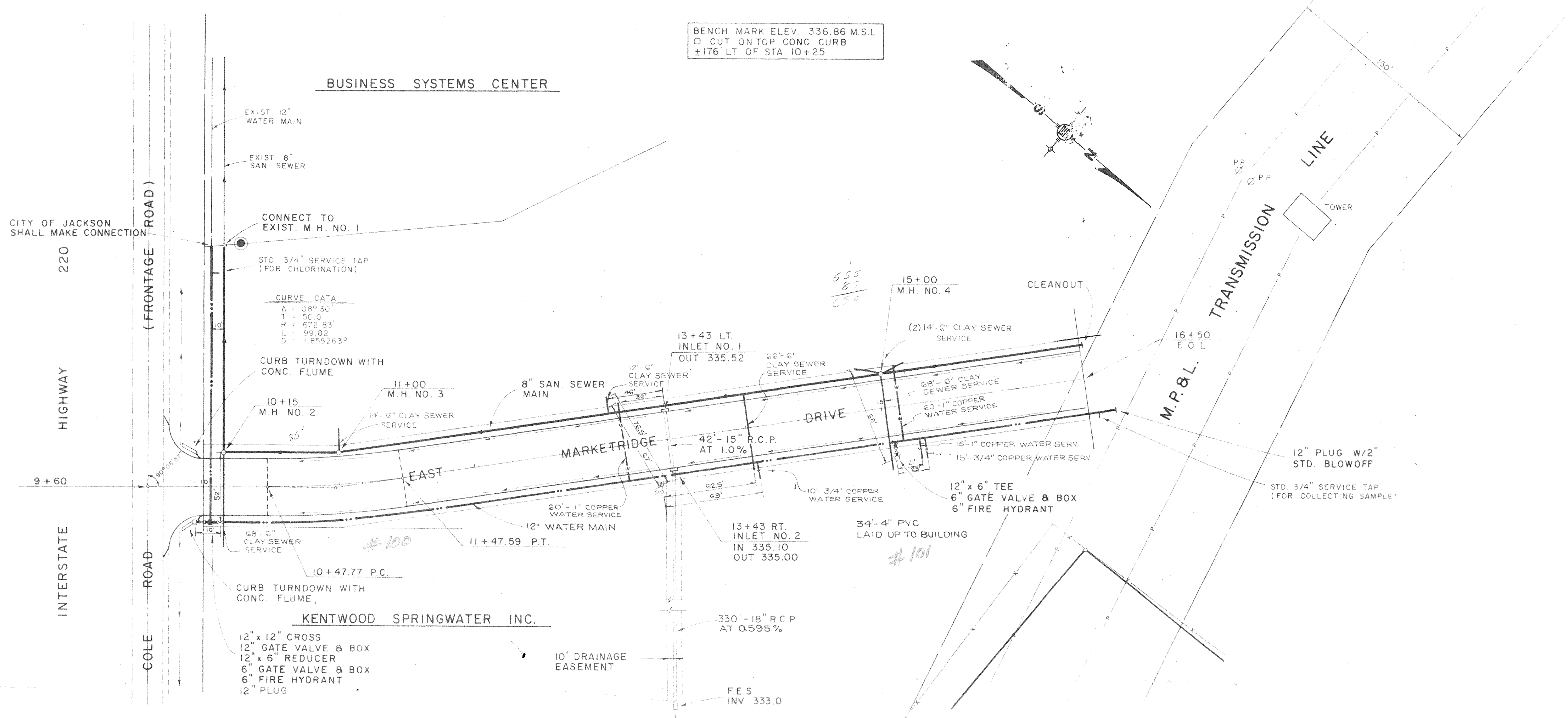
East Marketridge Dr.

**AS-BUILT**

QM-1616 (S)

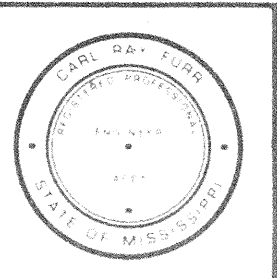
Date 8-91

BENCH MARK ELEV. 336.86 M.S.L.  
 □ CUT ON TOP CONC. CURB  
 ±176' LT. OF STA. 10+25

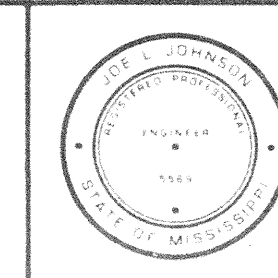
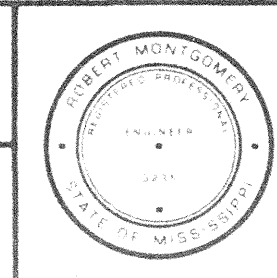


AS-BUILT  
 Date 8-91

DESIGNED	J.L.J.	DATE	8-19-88
DRAWN	M.C.	SCALE	1" = 50'
CHECKED	J.L.J.	JOB NO.	7200-9
NO.	DATE	NATURE	BY
		REVISIONS	APP'D



UNDERWOOD DEVELOPMENT COMPANY  
 ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS  
 JACKSON / PEARL, MISSISSIPPI

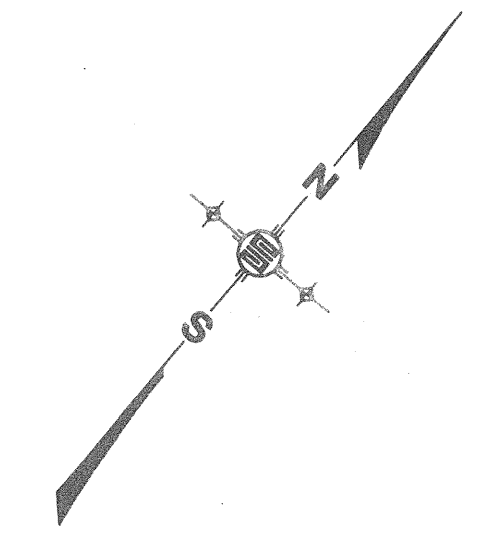
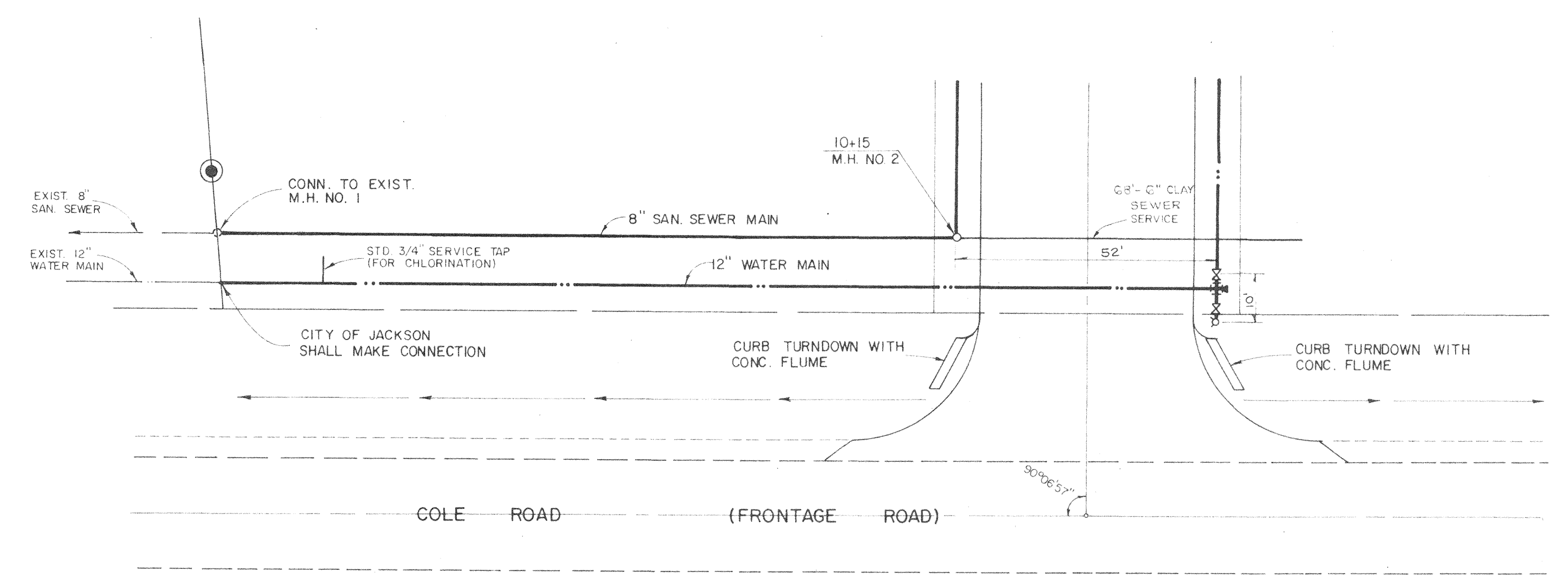


LAYOUT  
 WATER AND SEWER

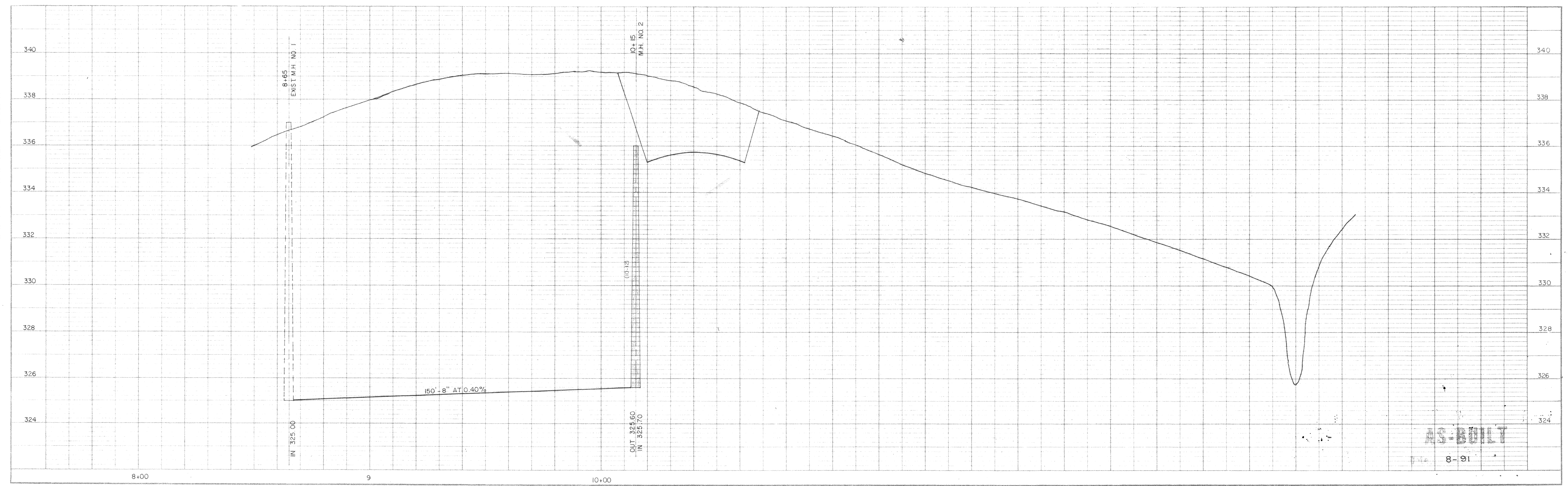
PROJECT NO.	545
CONTRACT	SHEET

Qm 1616 '51

BENCH MARK ELEV. 336.86 M.S.L.  
 SQUARE CUT ON TOP CONC. CURB  
 +1.76' LT. OF STA. 10+25



INTERSTATE HIGHWAY 220

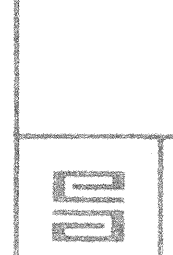
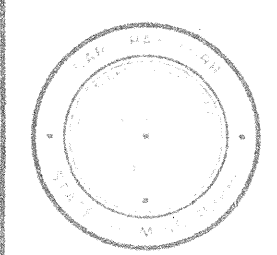


AS-BUILT

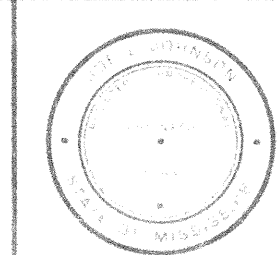
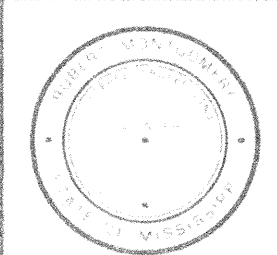
8-91

NO.	DATE	NATURE OF REVISIONS	BY	APP'D

DESIGNED J.L.J.	DATE 8-17-88
DRAWN D.P.	SCALE 1"=20'
CHECKED J.L.J.	JOB NO. 7200.9



**UNDERWOOD DEVELOPMENT COMPANY**  
**ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS**  
 JACKSON / PEARL, MISSISSIPPI

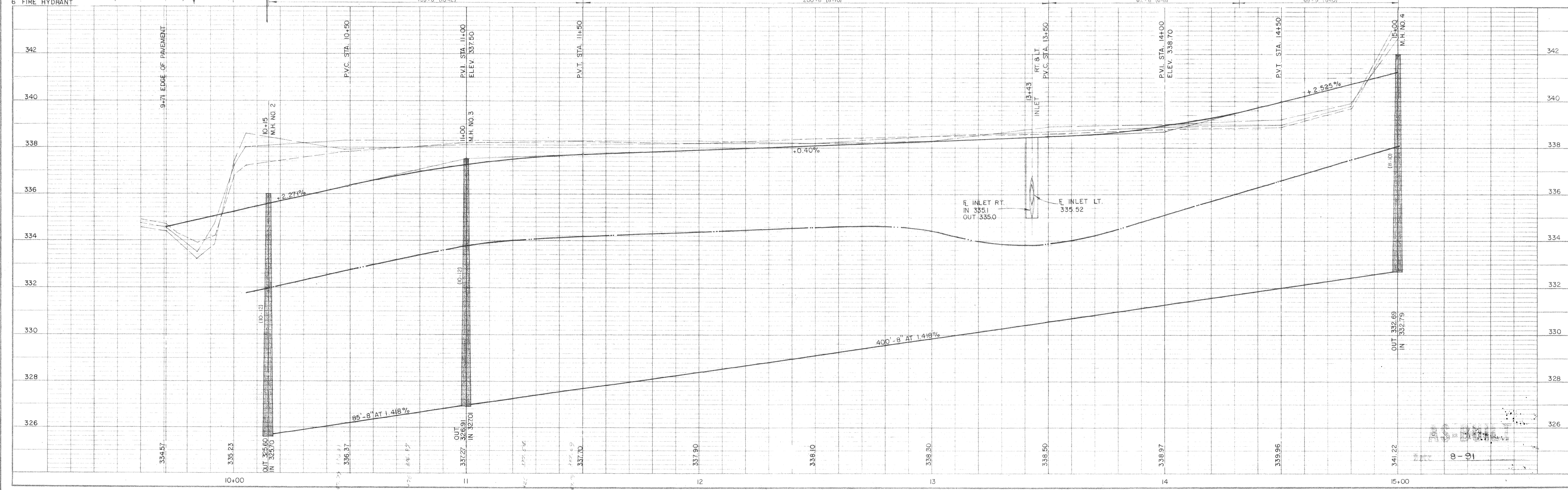
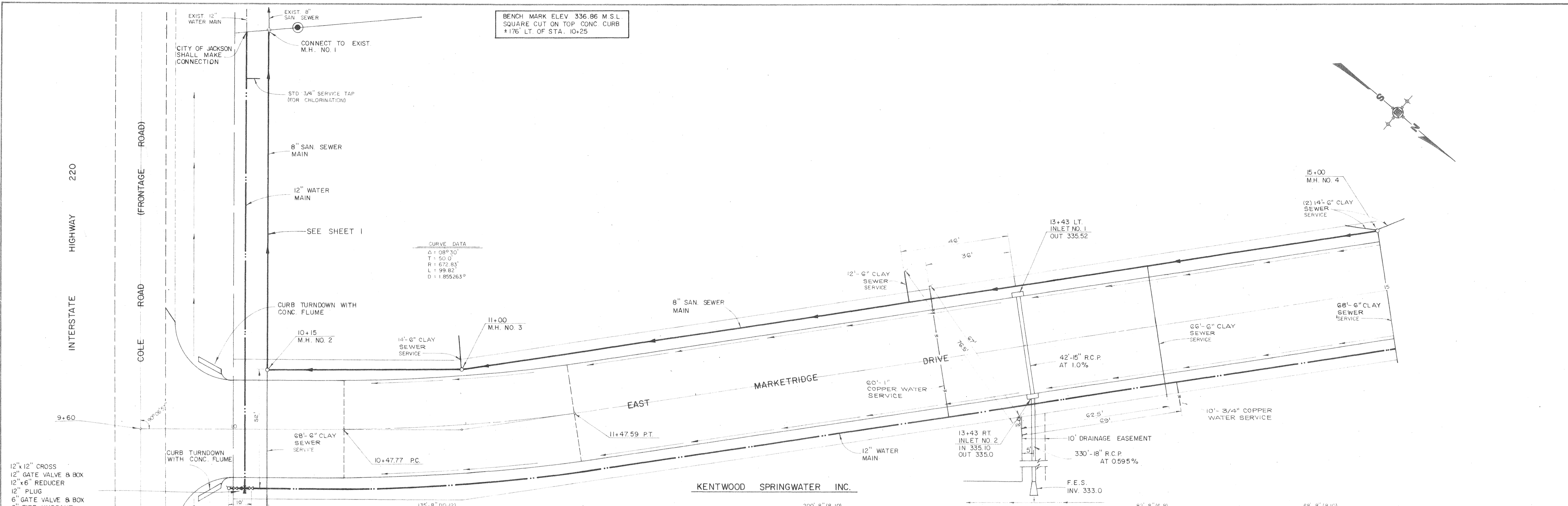
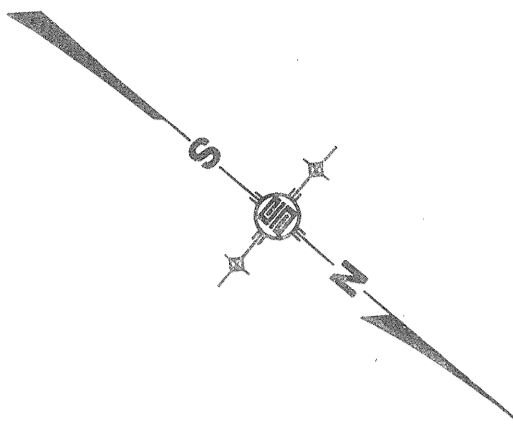


PLAN - PROFILE  
 EAST MARKETRIDGE DRIVE  
 STA. 8+65 TO STA. 10+15

PROJECT NO. 545	CONTRACT	SHEET 1
--------------------	----------	------------

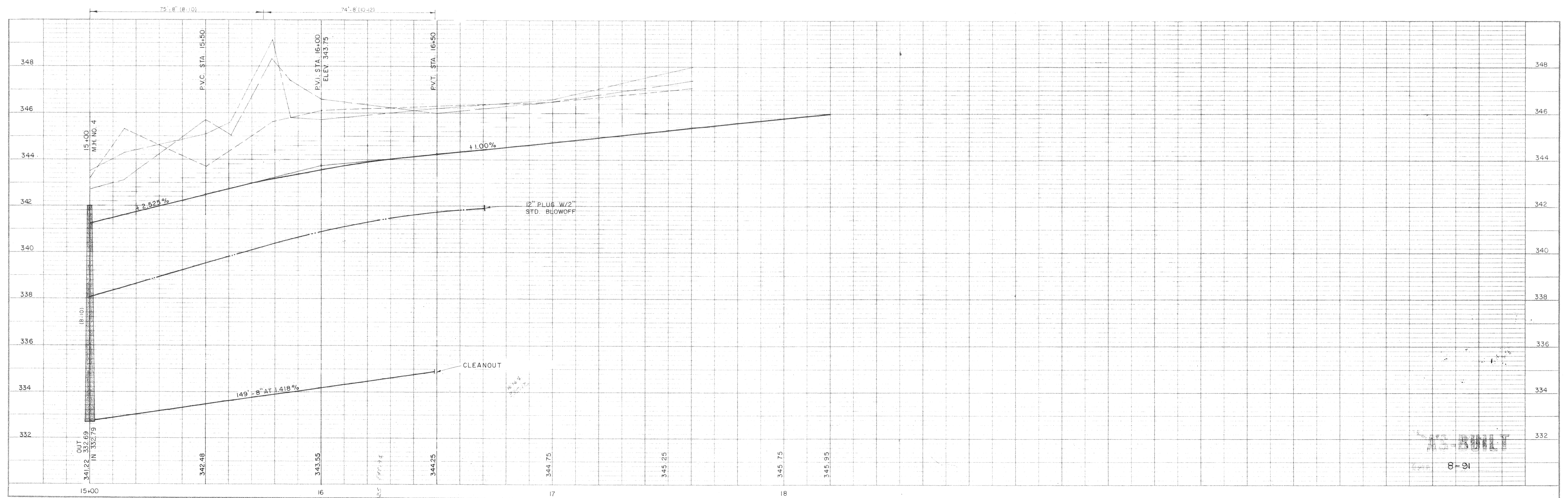
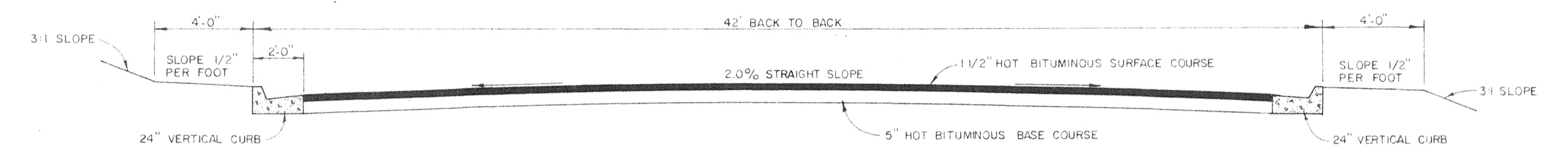
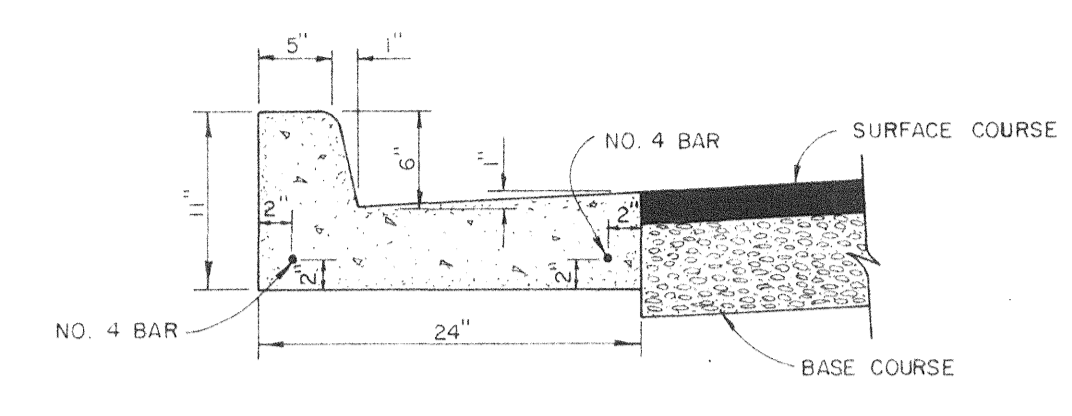
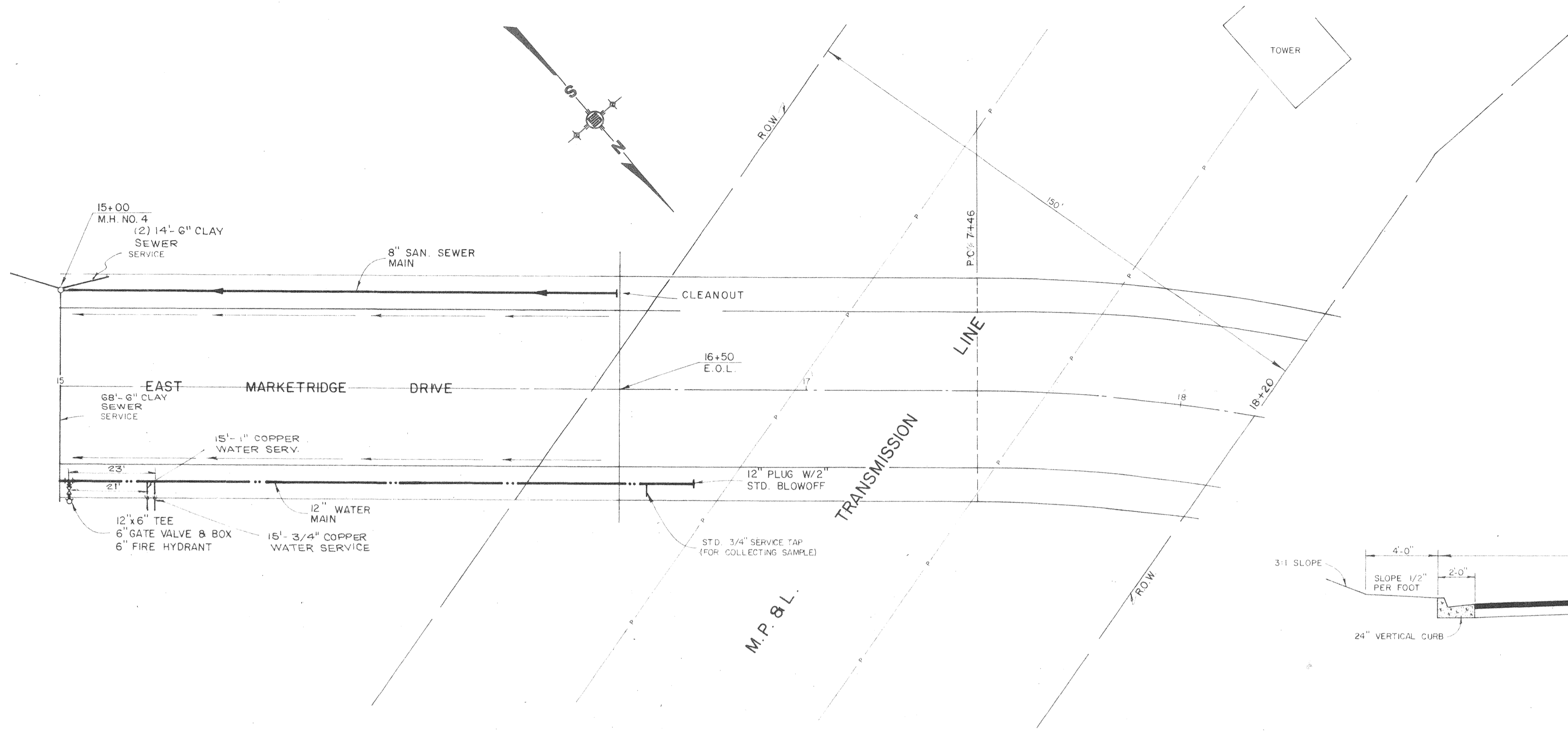
9m-1616 (5)

BENCH MARK ELEV 336.86 M.S.L.  
 SQUARE CUT ON TOP CONC CURB  
 +176' LT. OF STA. 10+25



DESIGNED J.L.J.		DATE 8-17-88				<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI						PLAN - PROFILE EAST MARKETRIDGE DRIVE STA. 9+71 TO STA. 15+00		PROJECT NO. 545	
DRAWN D.P.		SCALE 1" = 20'												CONTRACT	
I 9-88 GRADE CHANGE, STA. 13+50 TO STA. 16+50		C.H.M.		BY APP'D		CHECKED J.L.J.		JOB NO. 72009							

9m-16/16 (5)

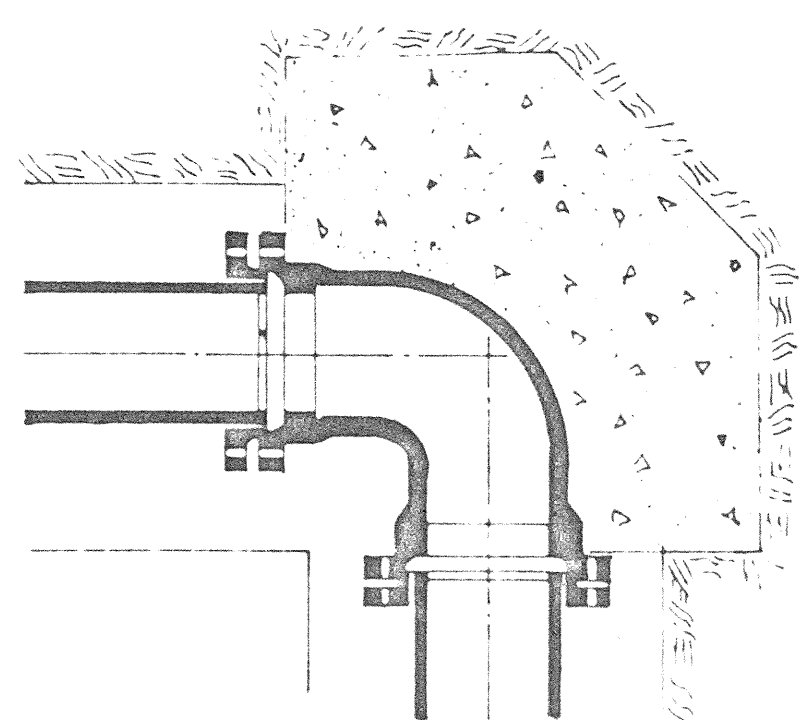
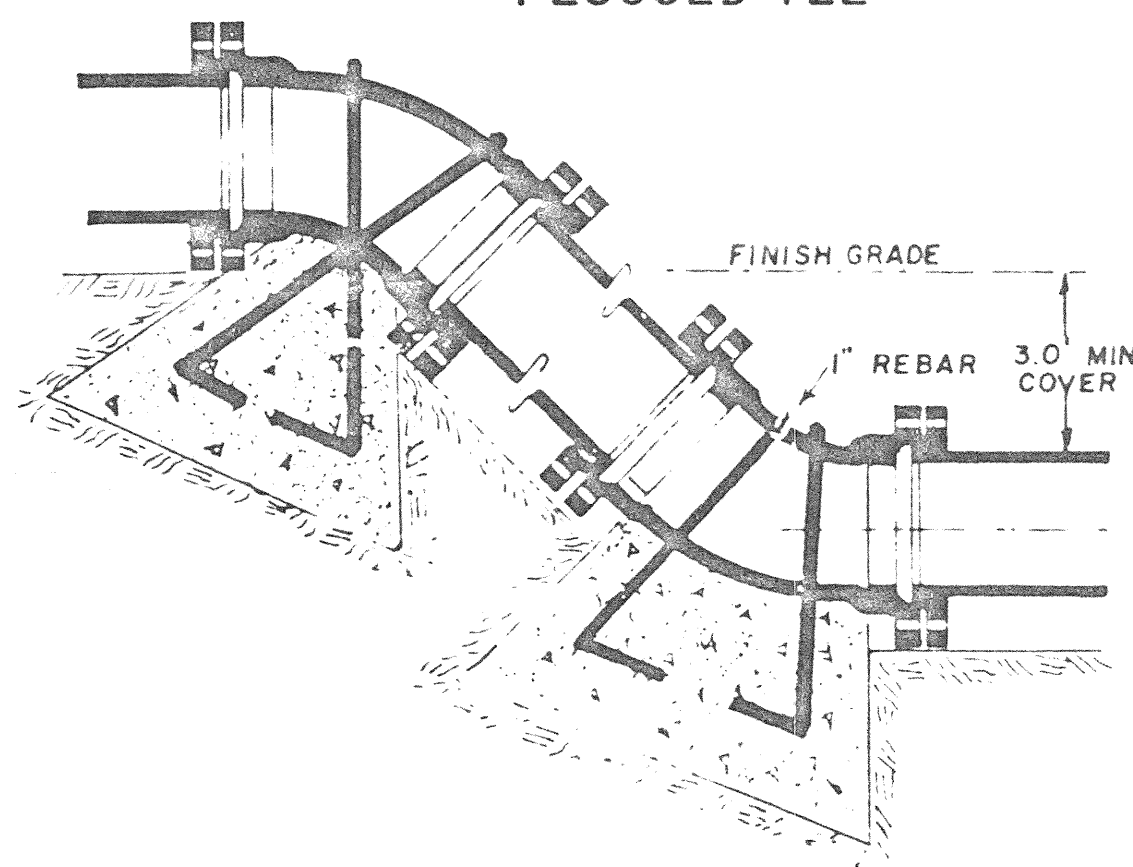
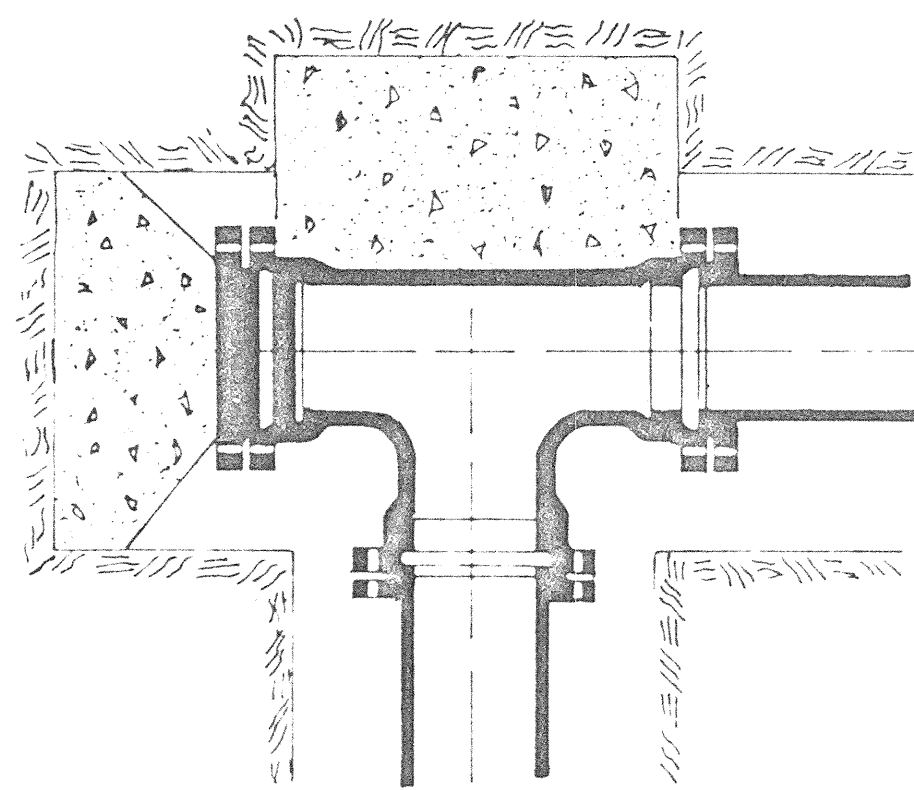
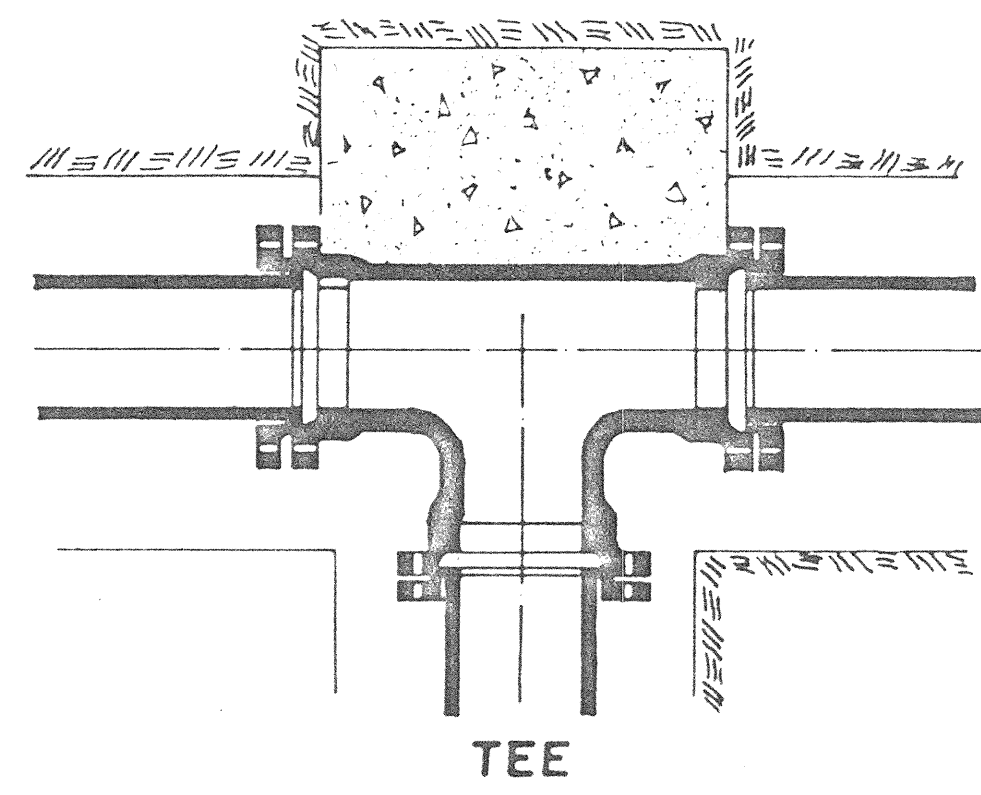


DESIGNED J.L.J.				DATE 8-17-88				<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON / PEARL, MISSISSIPPI		PLAN - PROFILE		PROJECT NO 545	
DRAWN D.P.				SCALE 1" = 20'								EAST MARKETRIDGE DRIVE STA. 15+00 TO STA. 16+50	
I 9-88		GRADE CHANGE, STA. 13+50 TO STA. 16+50		C.H.M.									
NO. DATE		NATURE		BY		APP'D		CHECKED		JOB NO			
		REVISIONS						J.L.J.		7200.9			

8-91

9m-1616 (51)

**TYPICAL BLOCKING ON WATER MAINS**



BEARING AREA IN SQ. FT.

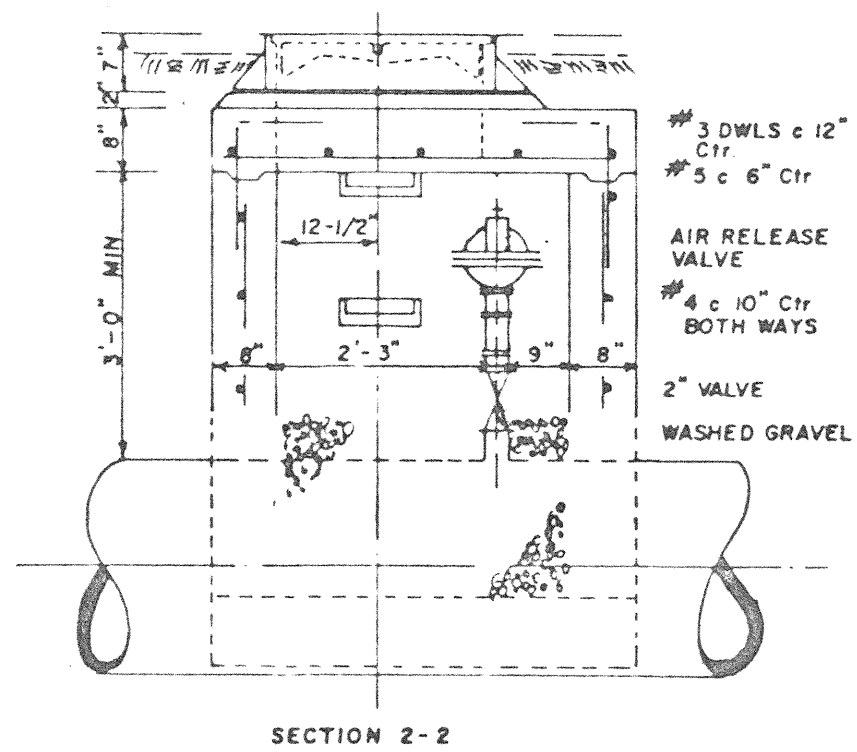
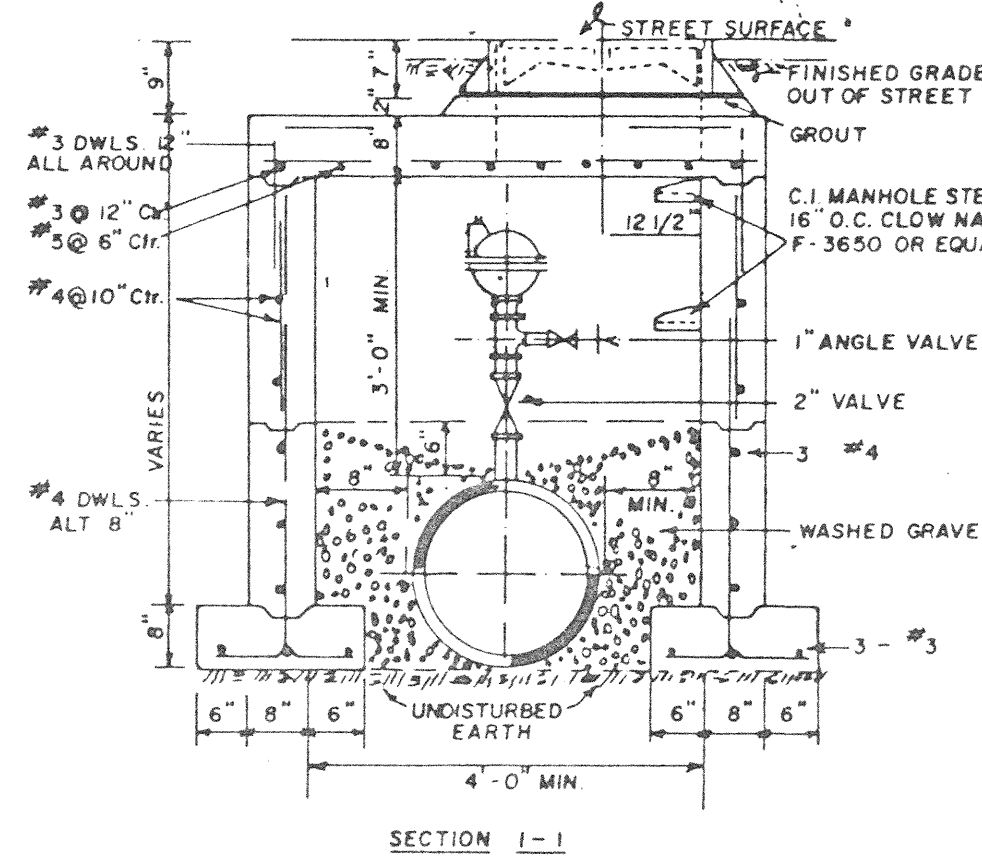
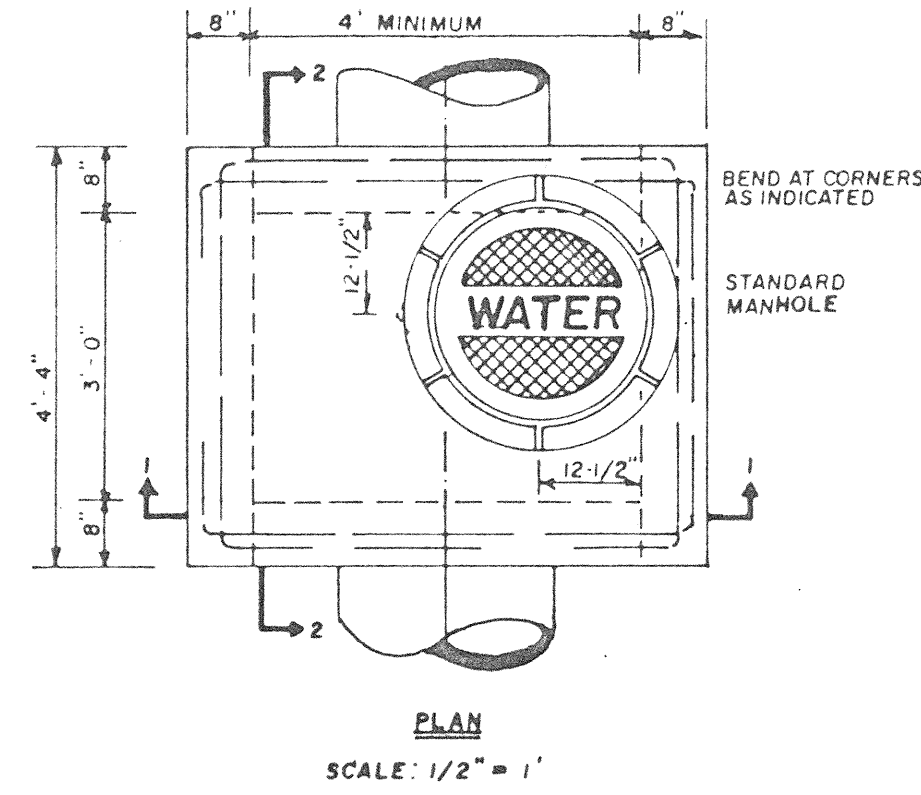
NOMINAL PIPE DIAMETER (IN.)	DEAD END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	6.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0

**VERTICAL BENDS**

4	—	—	6.0 (22)	4.0 (15)	4.0 (15)
6	—	—	14.0 (52)	6.0 (22)	4.0 (15)
8	—	—	27.0 (10)	9.0 (33)	6.0 (22)
12	—	—	68.0 (25)	22.0 (80)	9.0 (33)
16	—	—	90.0 (33)	52.0 (19)	18.0 (67)

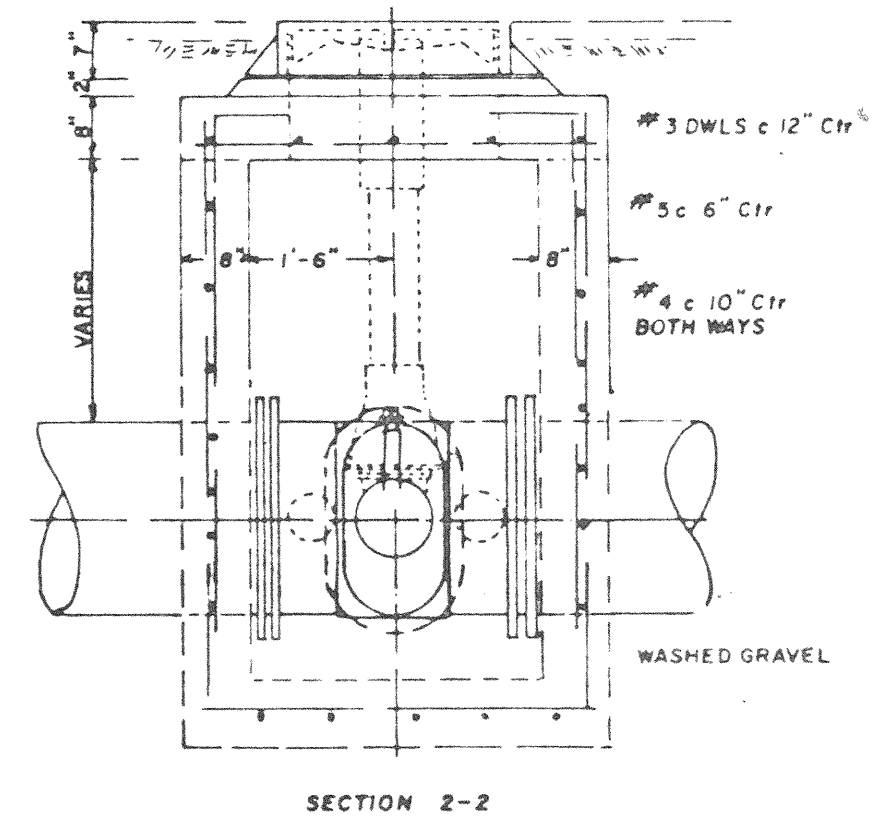
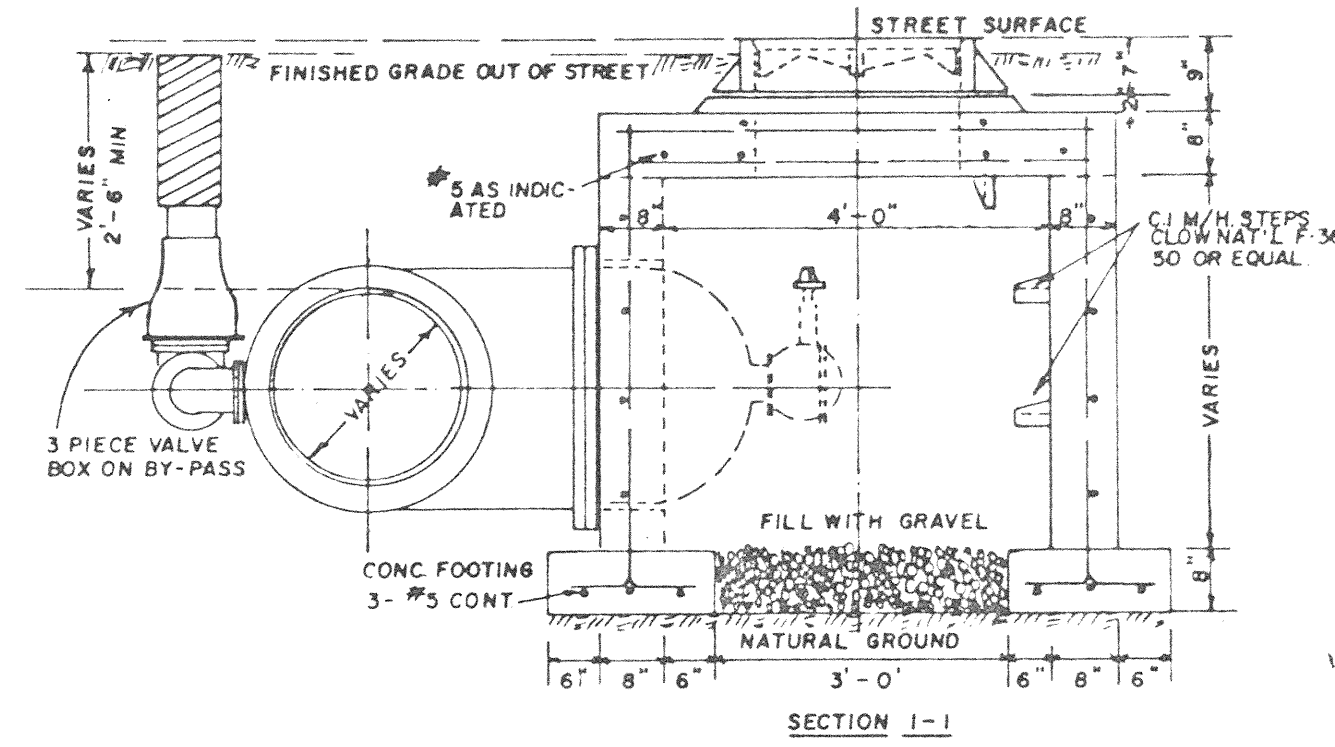
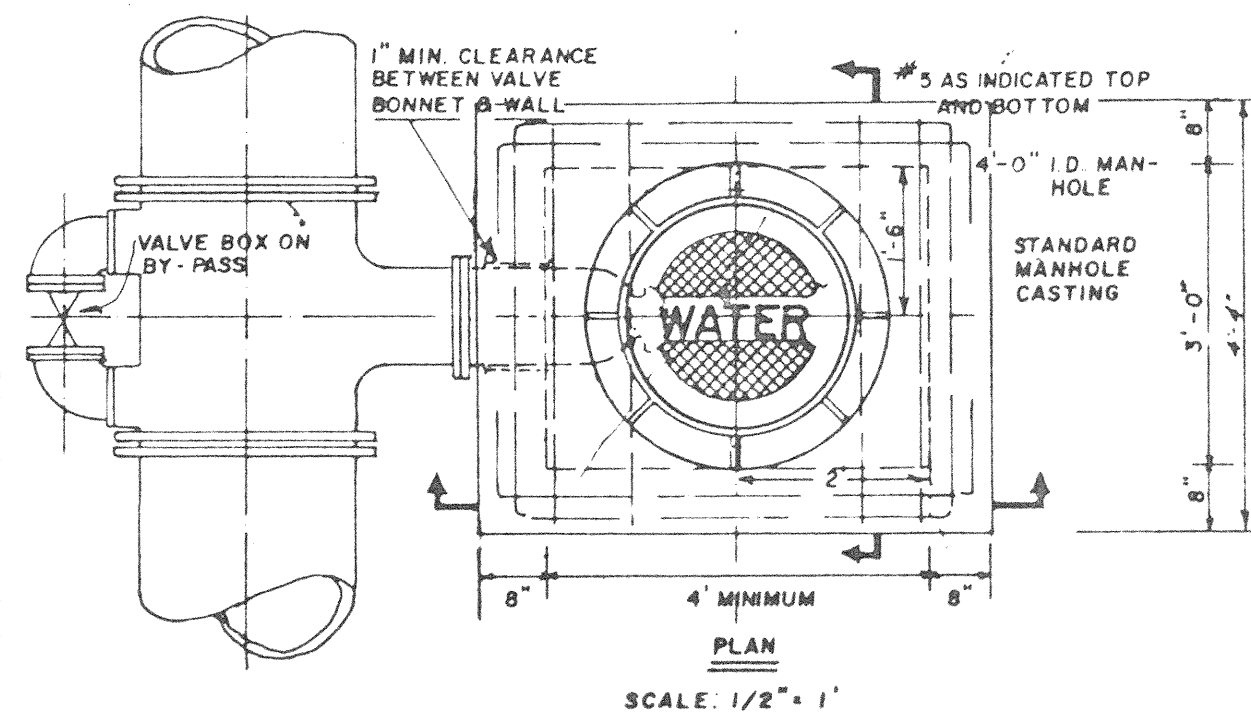
Volume of blocks including soil load CU. FT. (CU. YDS.)

**TYPE-1 TYPICAL AIR RELEASE VALVE AND MANHOLE**



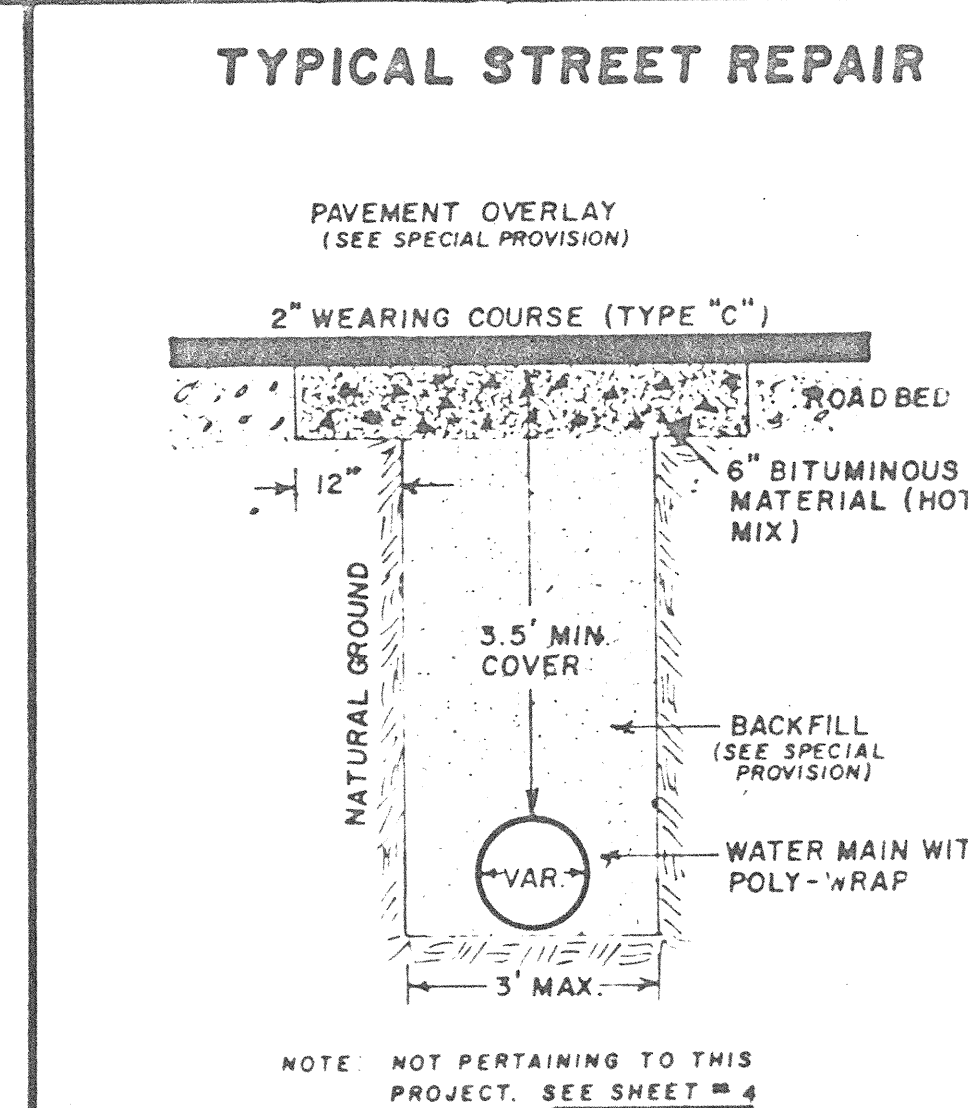
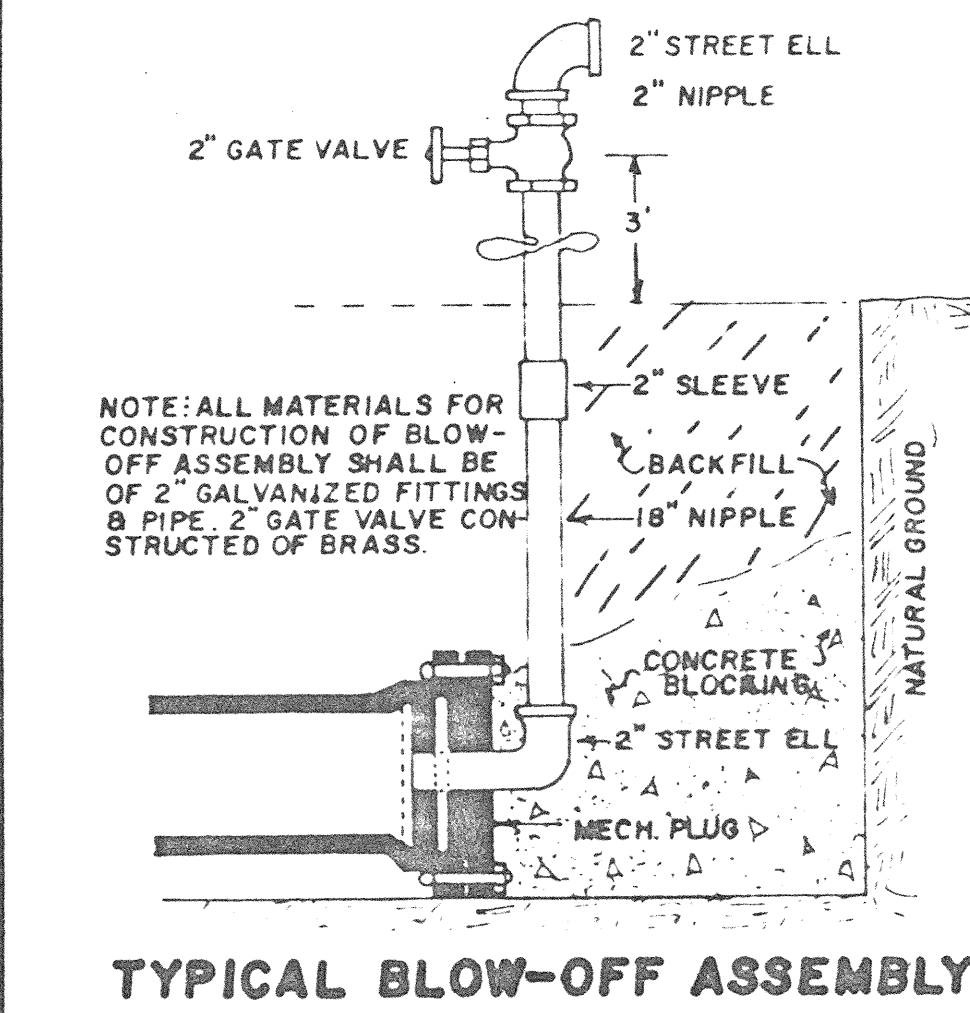
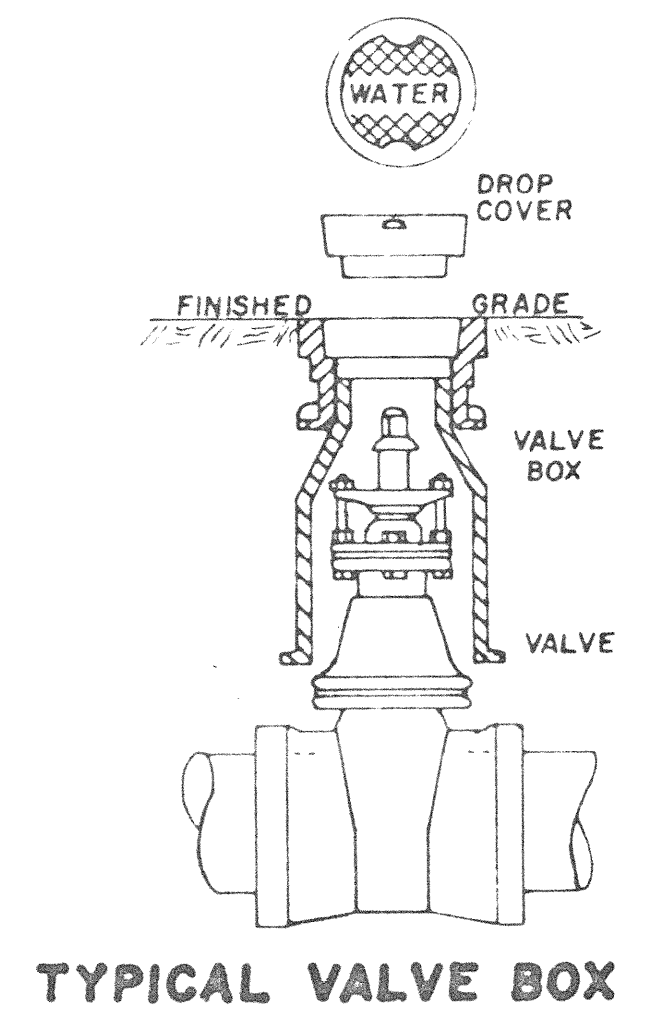
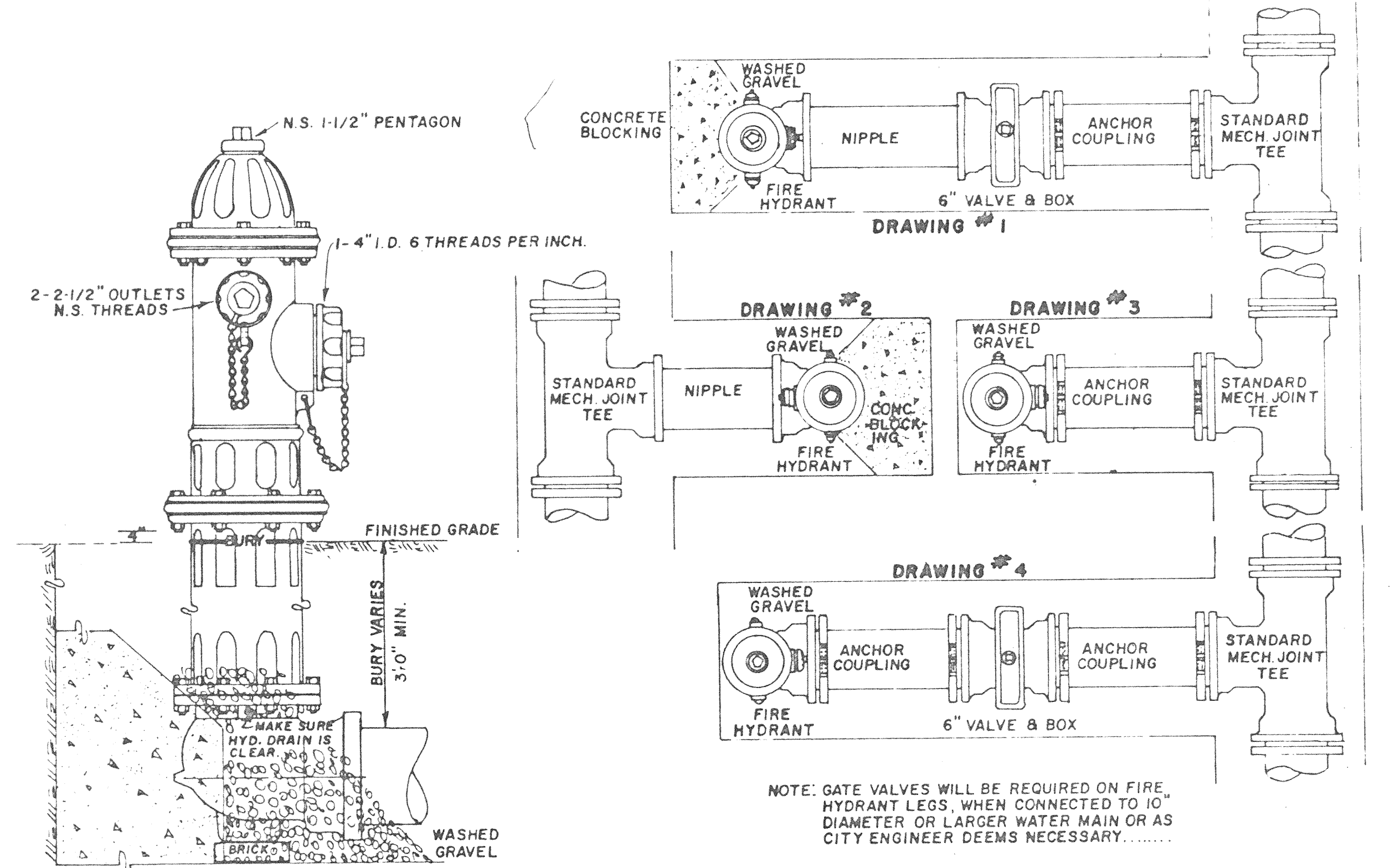
NOTE: STANDARD 4' (FOUR FOOT) PRECAST CONCRETE MANHOLE USED IN LIEU OF TYPICAL SECTION.

**TYPICAL VALVE MANHOLE**

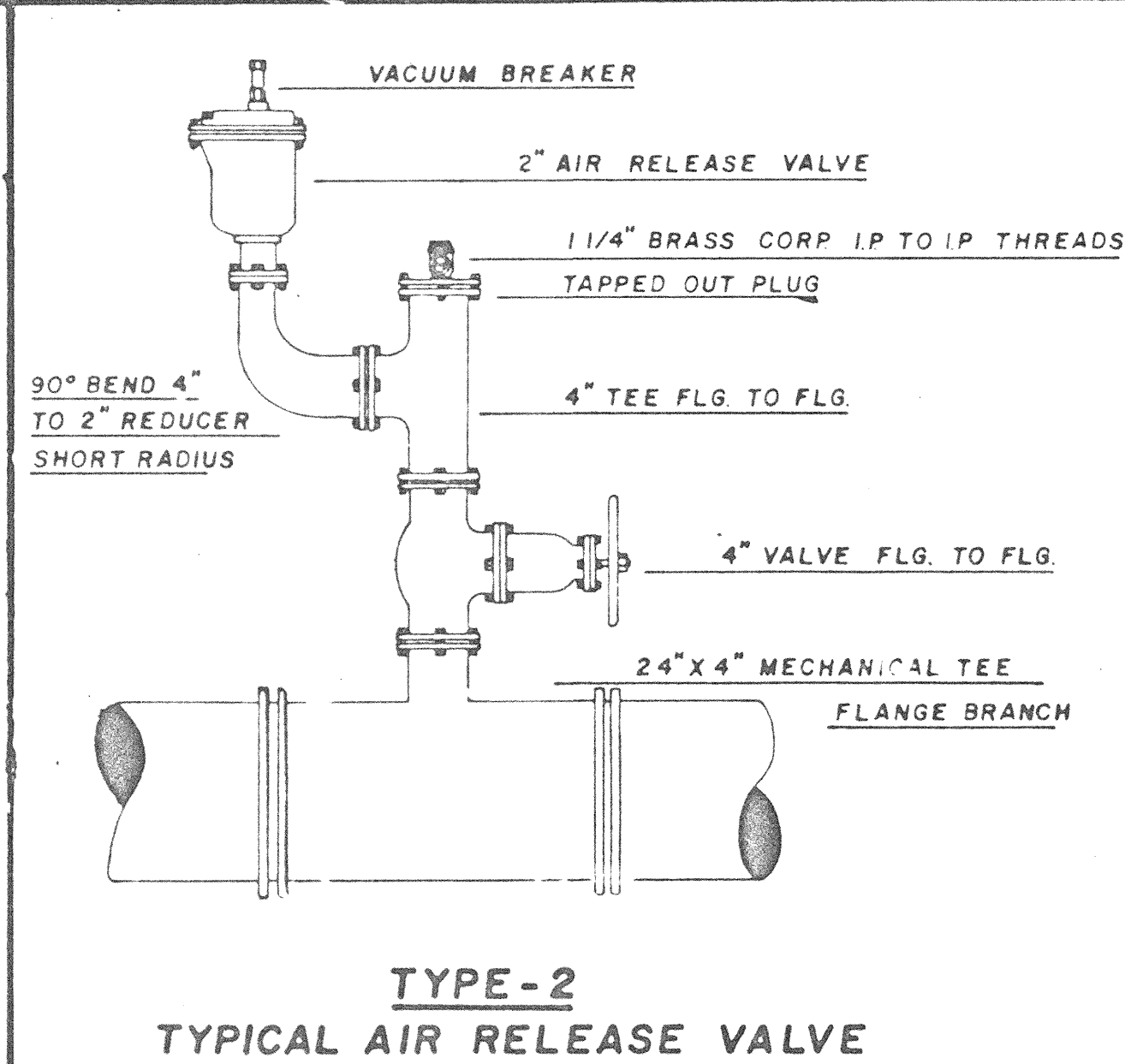
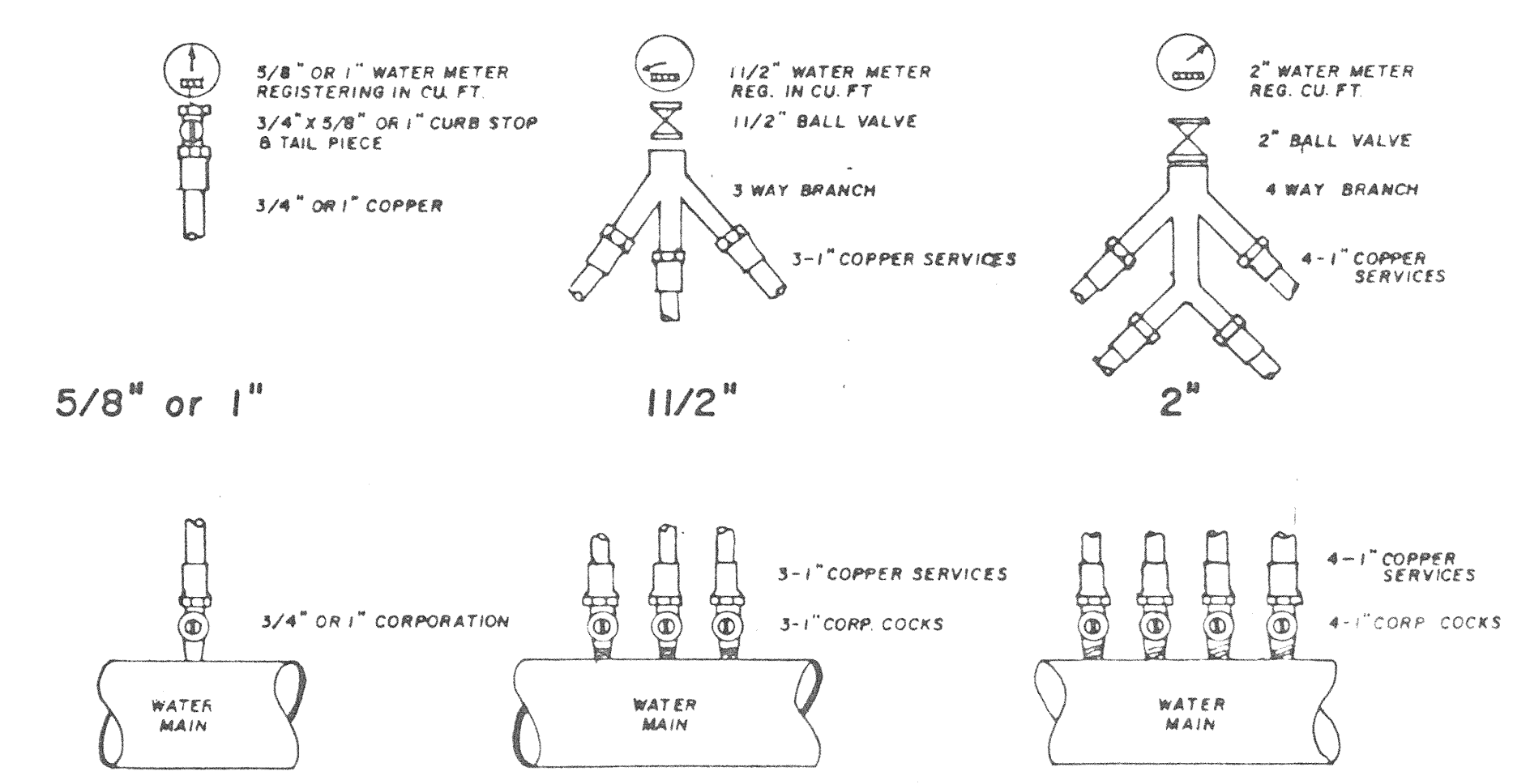


NOTE: STANDARD 4' (FOUR FOOT) PRECAST CONCRETE MANHOLE USE IN LIEU OF TYPICAL SECTION, MODIFIED FOR VALVE BONNET.

**TYPICAL FIRE HYDRANT INSTALLATION**



**TYPICAL METER SERVICE**



**AS-BUILT**  
Date 8-91

**CITY OF JACKSON**  
JACKSON, MS. 39205

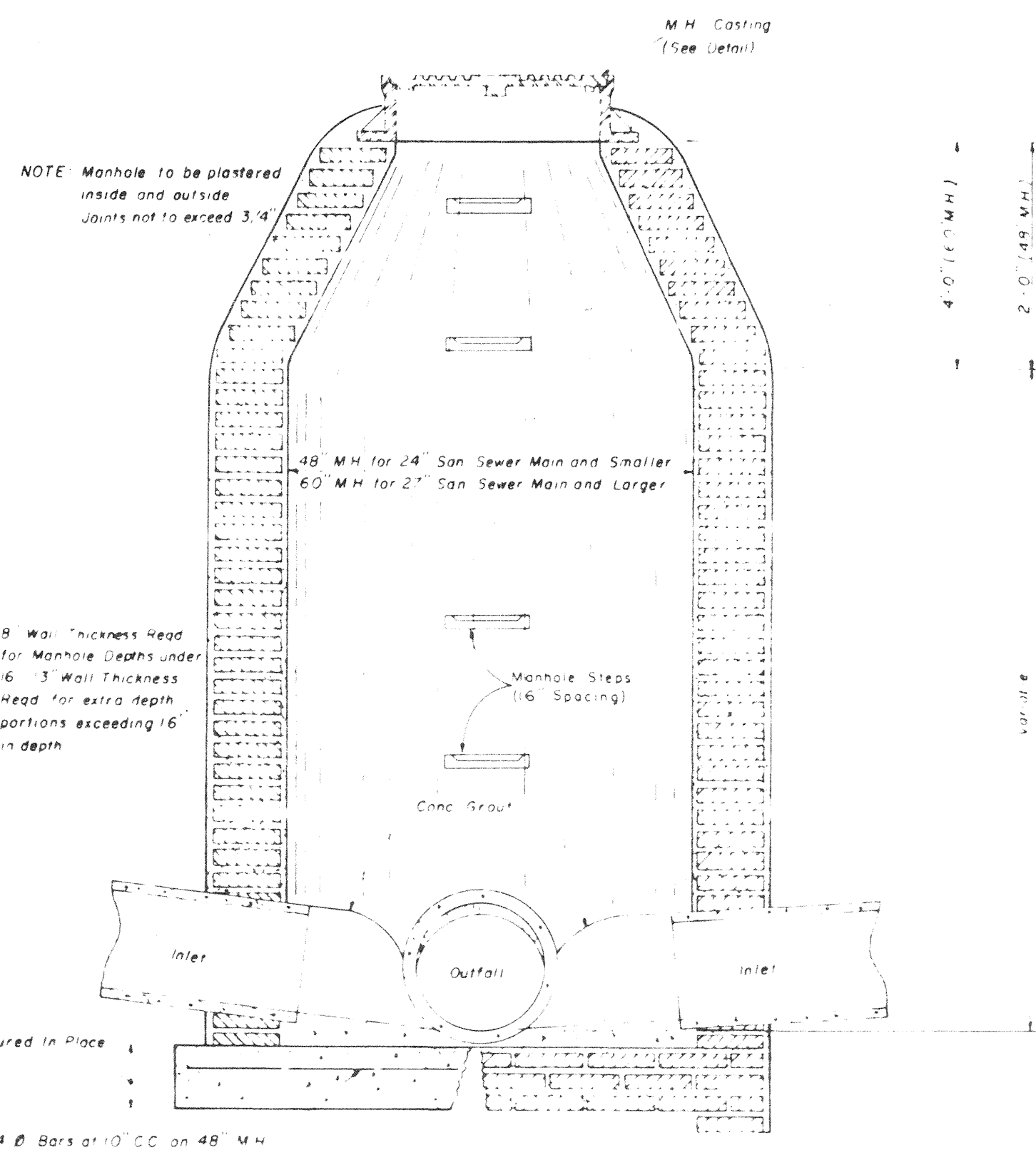
BUILDING A BEAUTIFUL AND BETTER JACKSON

**STANDARD DETAIL**

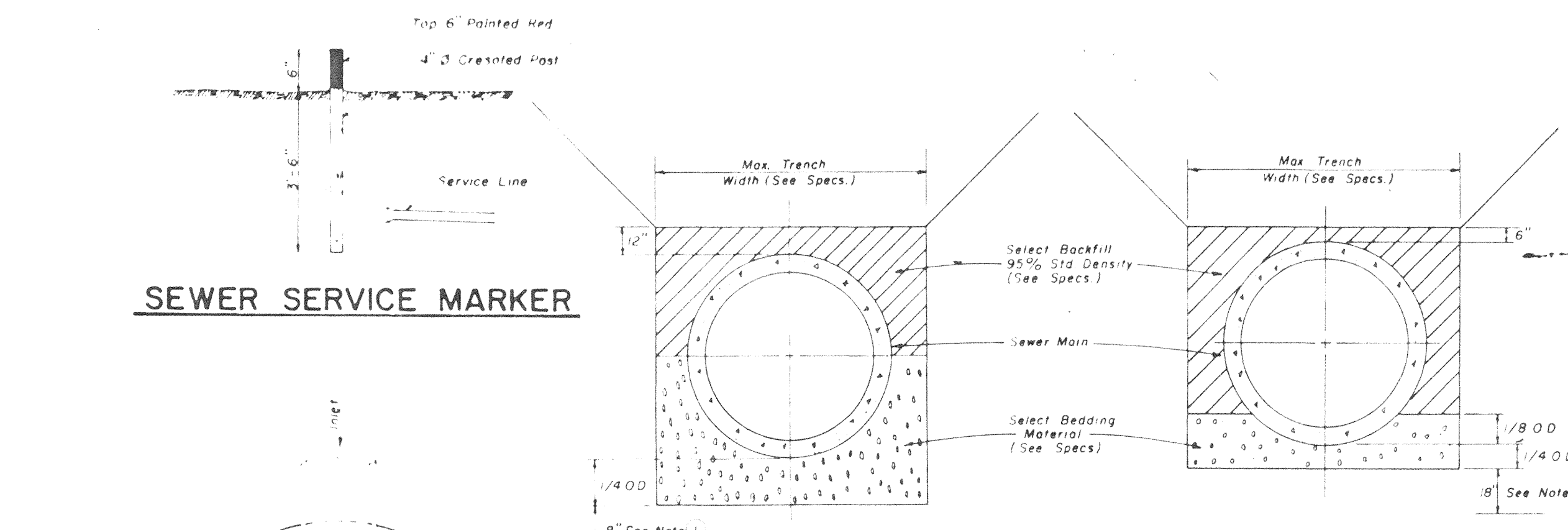
DRAWN BY:	PROJECT NUMBER	SHEET
MICKEY		4
DATE:		
JULY 83		

Qm-1616 151 N 9





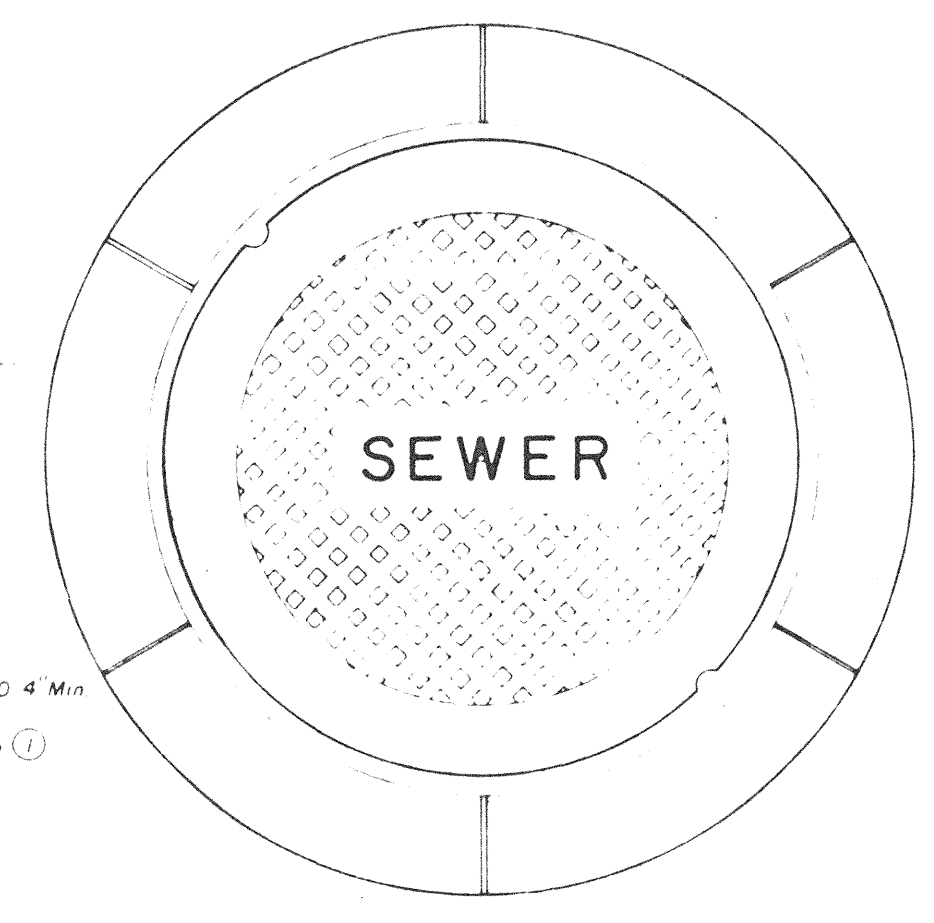
**SECTION  
STANDARD BRICK MANHOLE**



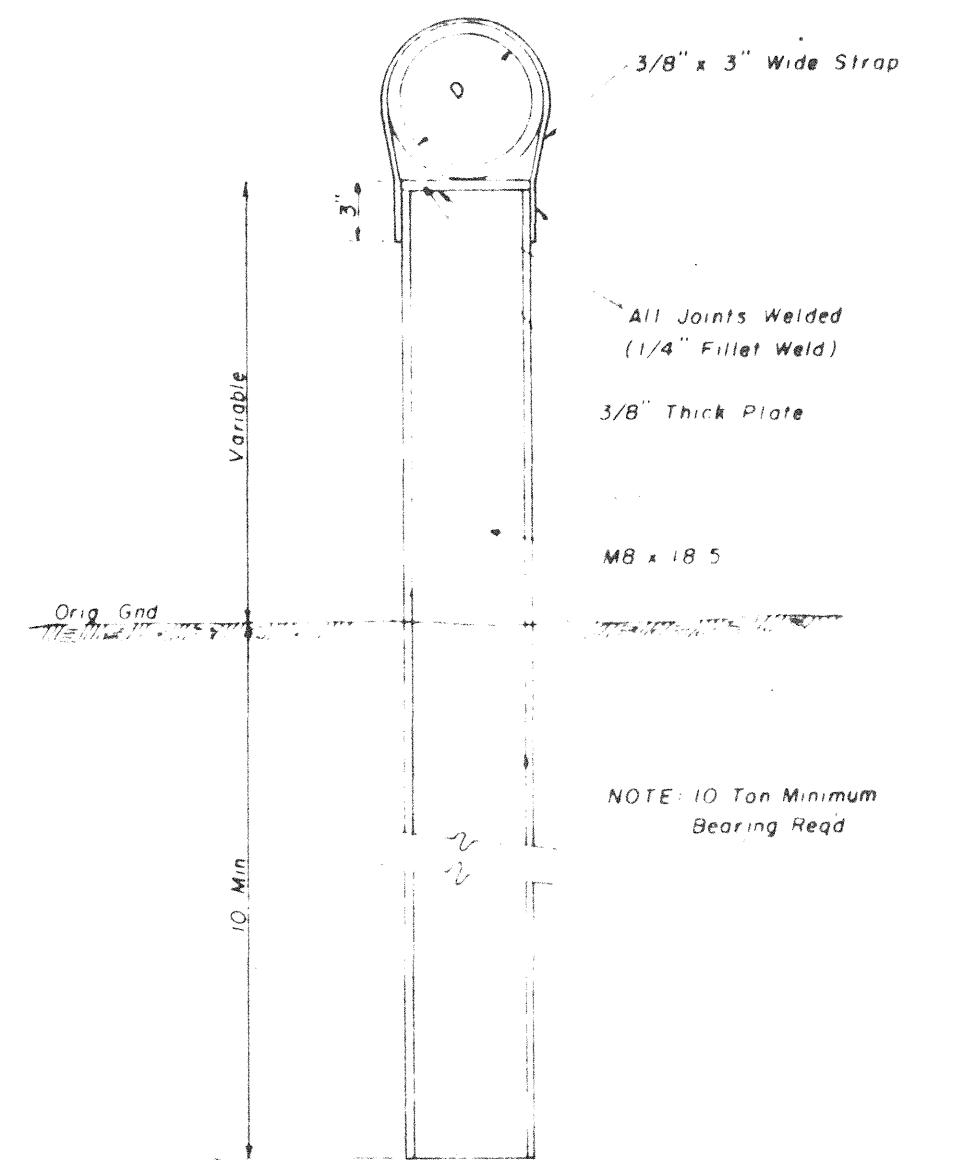
**SEWER SERVICE MARKER**

**TYPICAL SECTION  
CLASS "B" BEDDING**

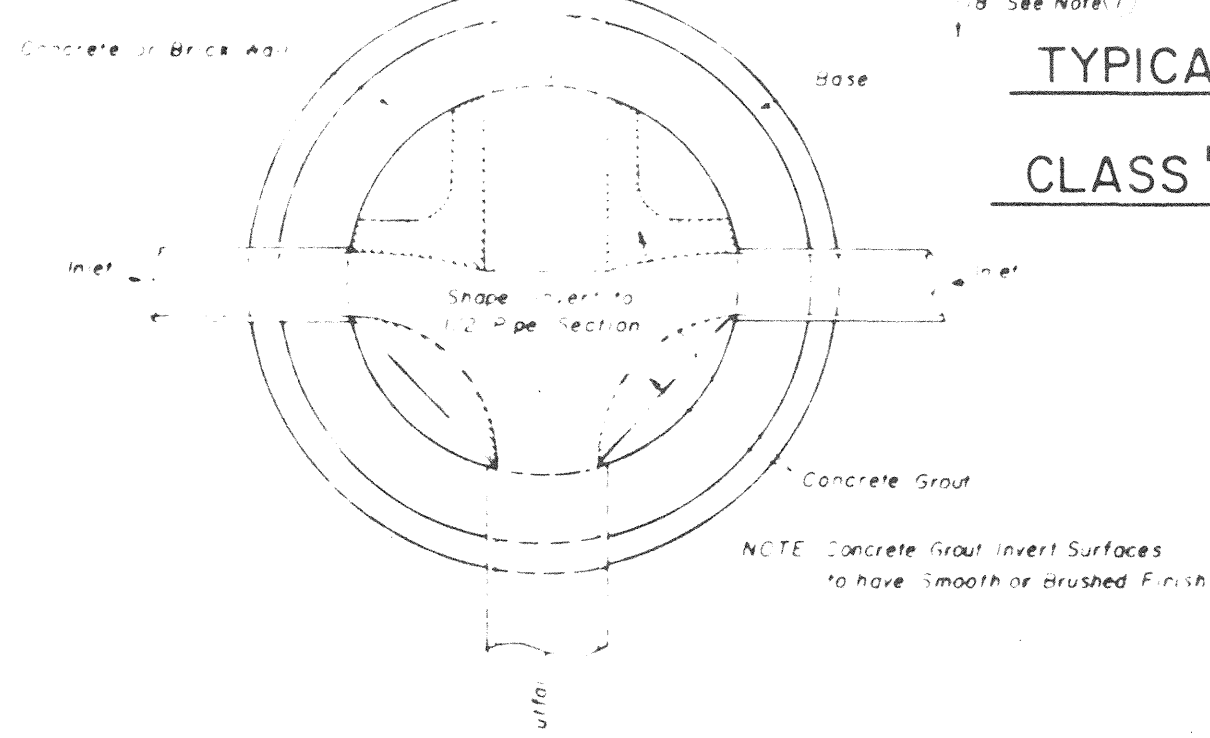
**TYPICAL SECTION  
CLASS "C" BEDDING**



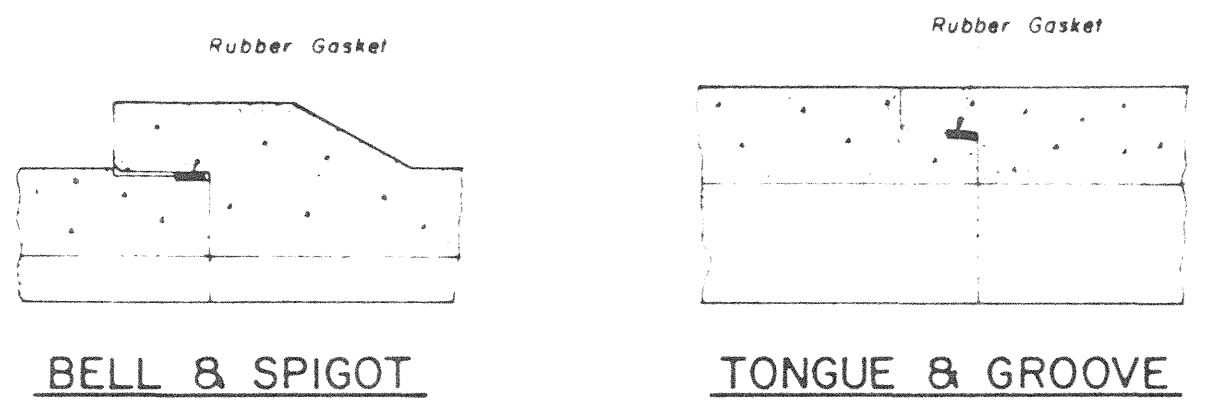
**PLAN  
MANHOLE CASTING**



**DETAIL  
TYPE "A" PIER**

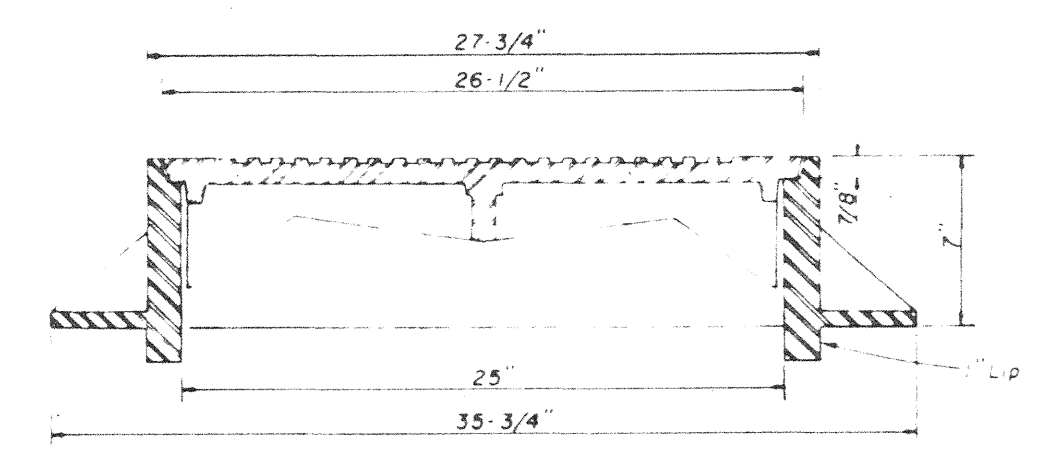


**PLAN OF MANHOLE  
FLOW CHANNELS**

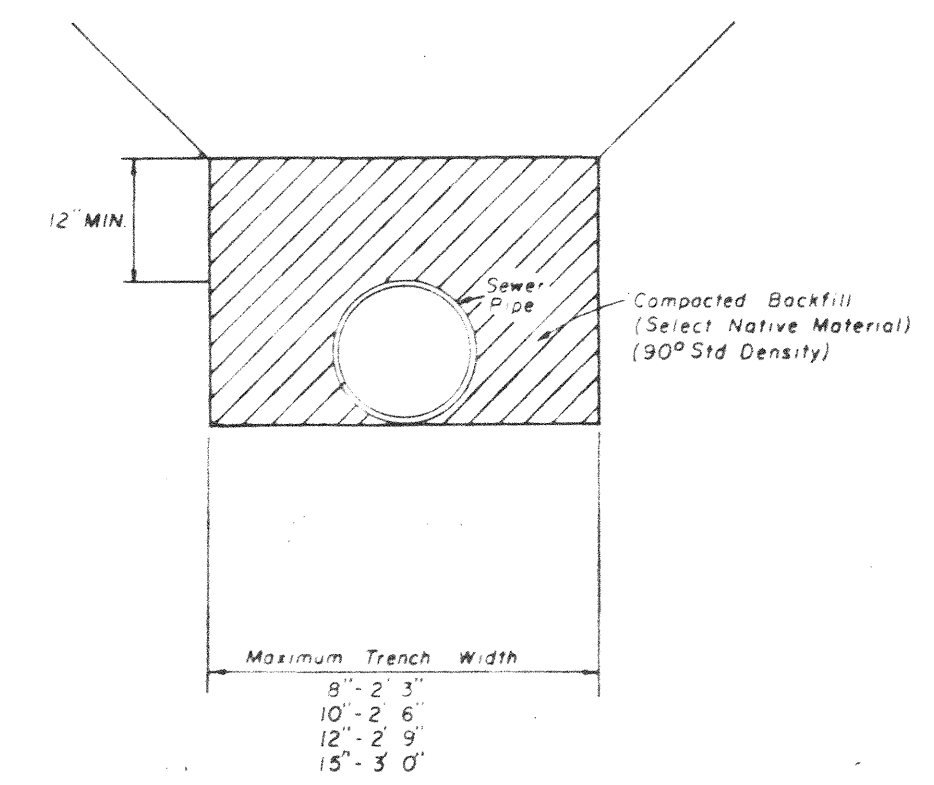


**BELL & SPIGOT  
TONGUE & GROOVE**

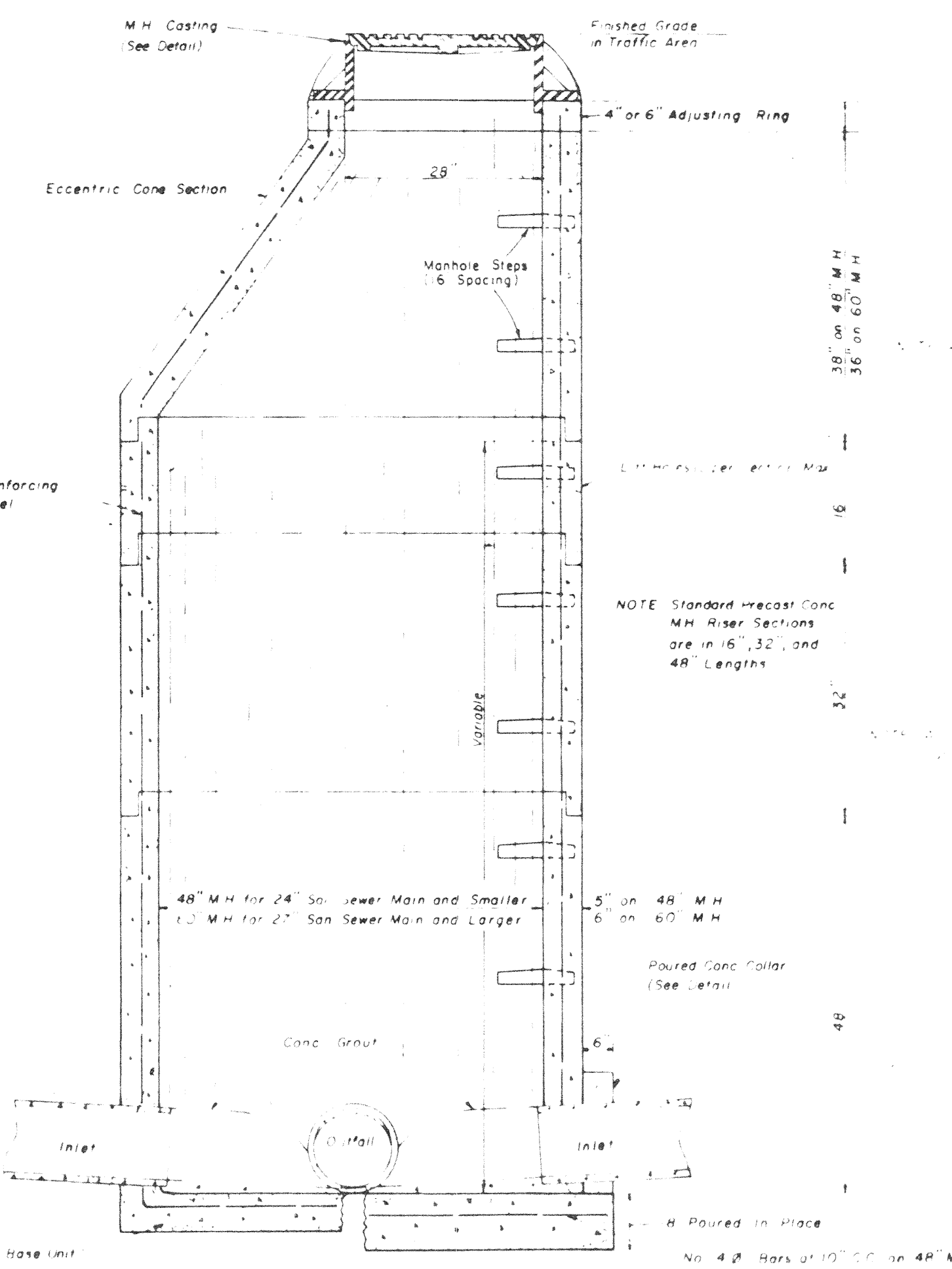
**JOINT DETAILS**



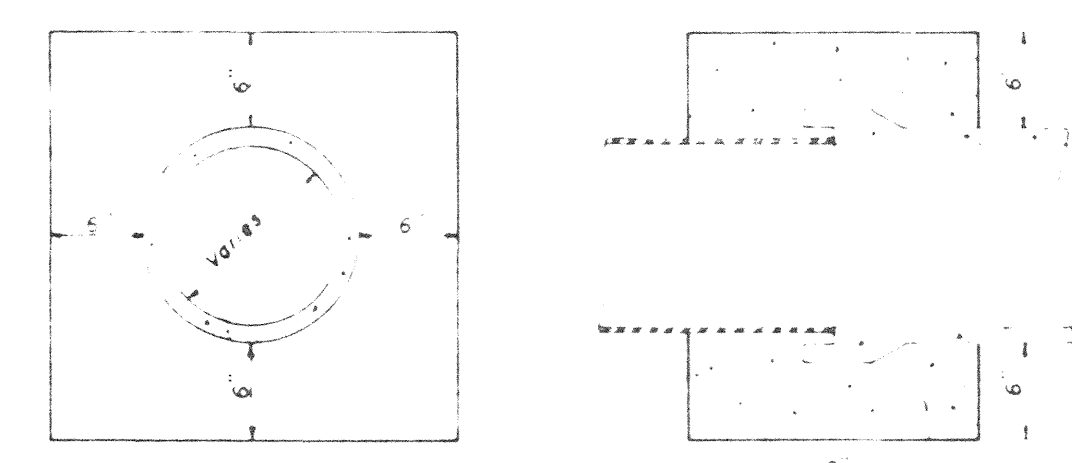
**SECTION  
TYPE "A" MANHOLE CASTING**



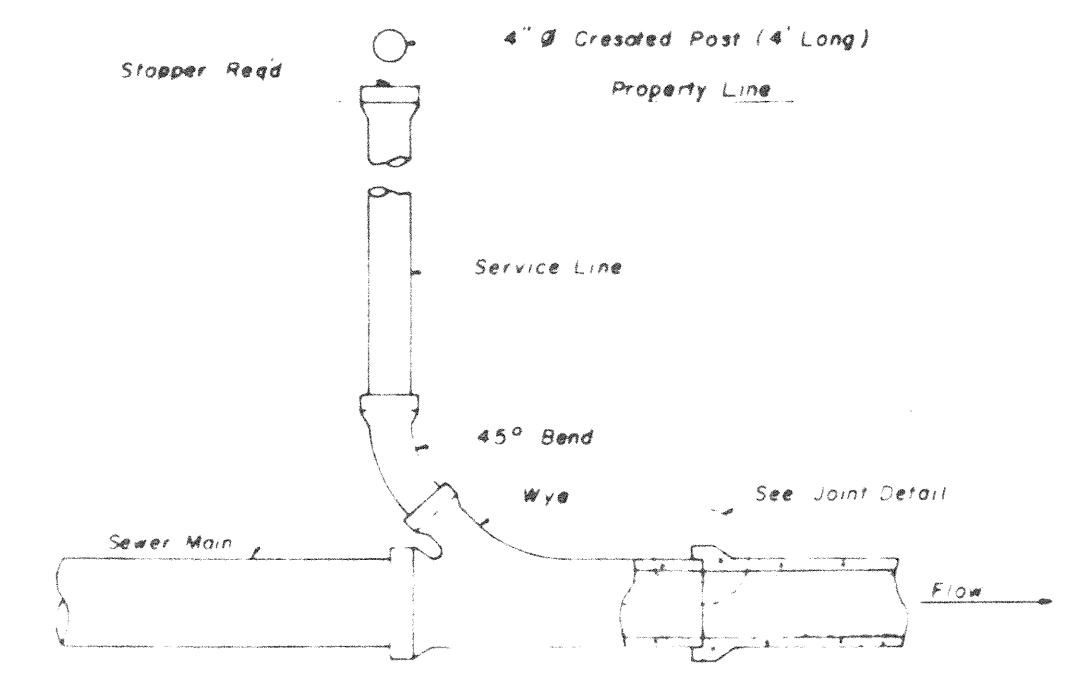
**TYPICAL SECTION  
CLASS "D" BEDDING**



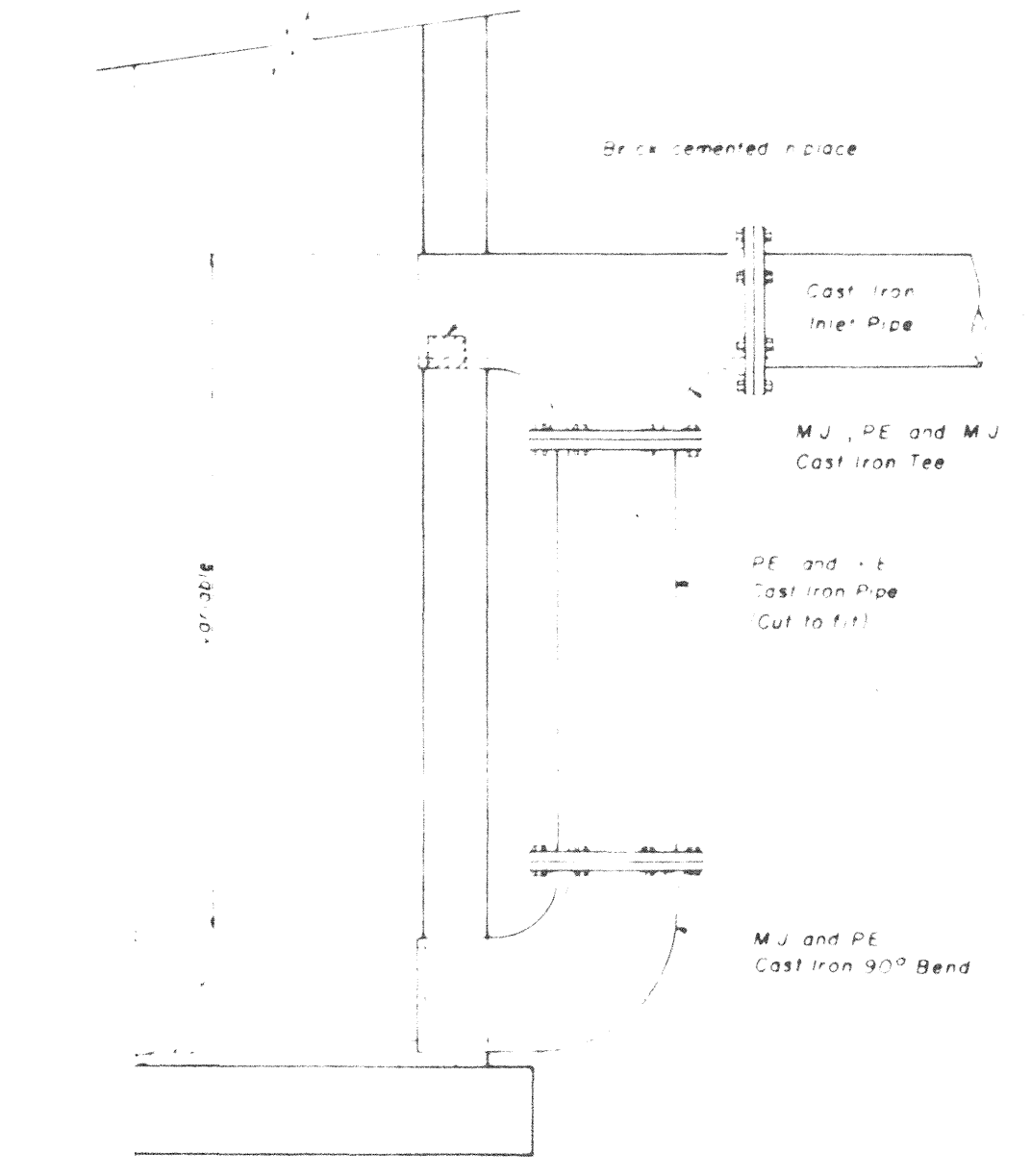
**SECTION  
PRECAST CONCRETE MANHOLE**



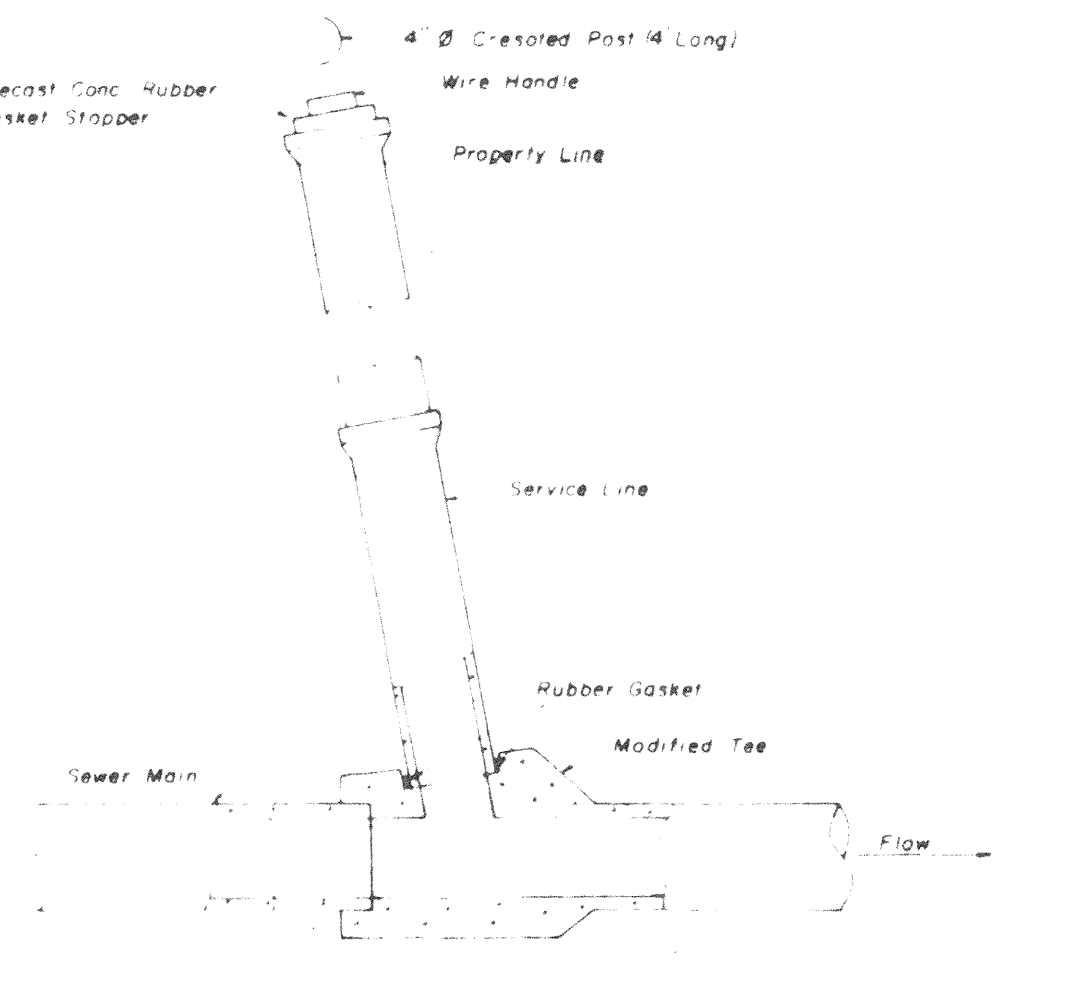
**ELEVATION  
SECTION  
CONCRETE COLLAR DETAILS**



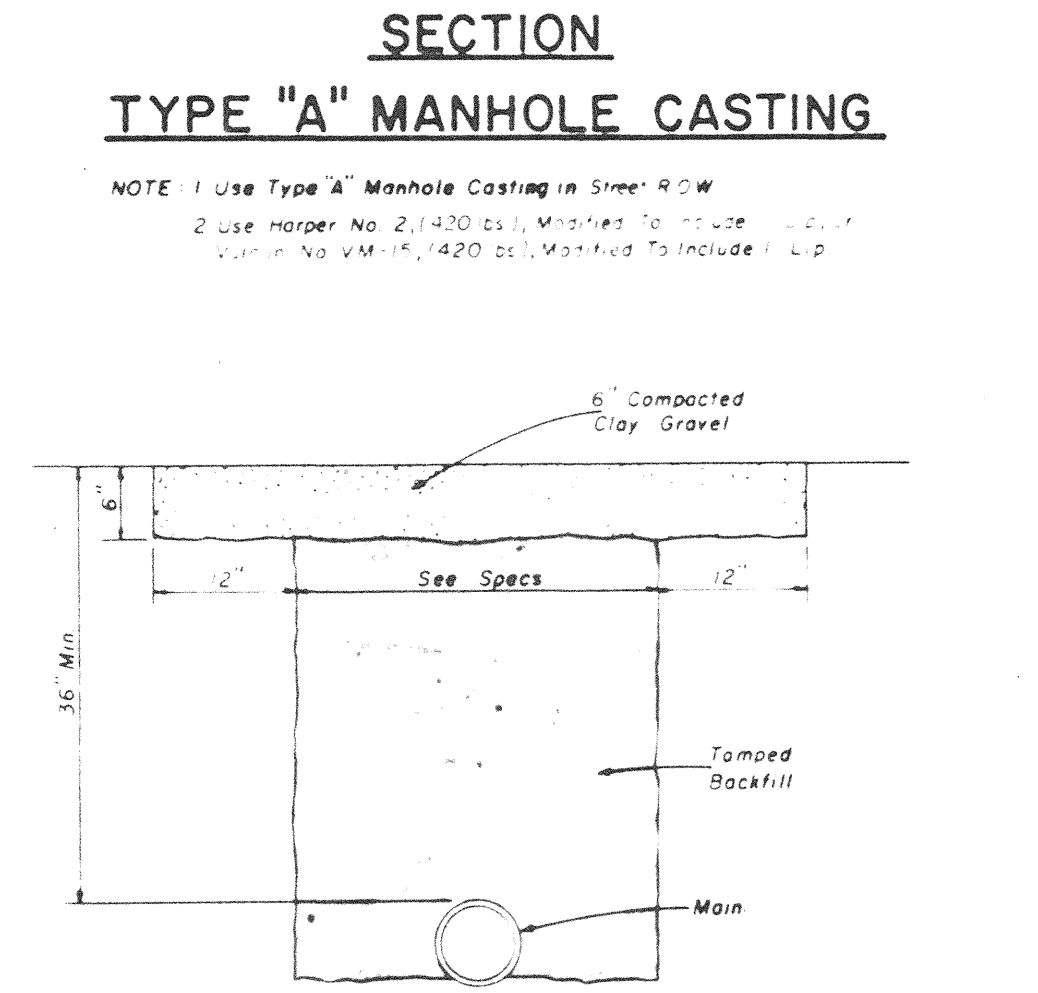
**TYPICAL SERVICE TO PROPERTY LINE  
WITH WYE JOINT**



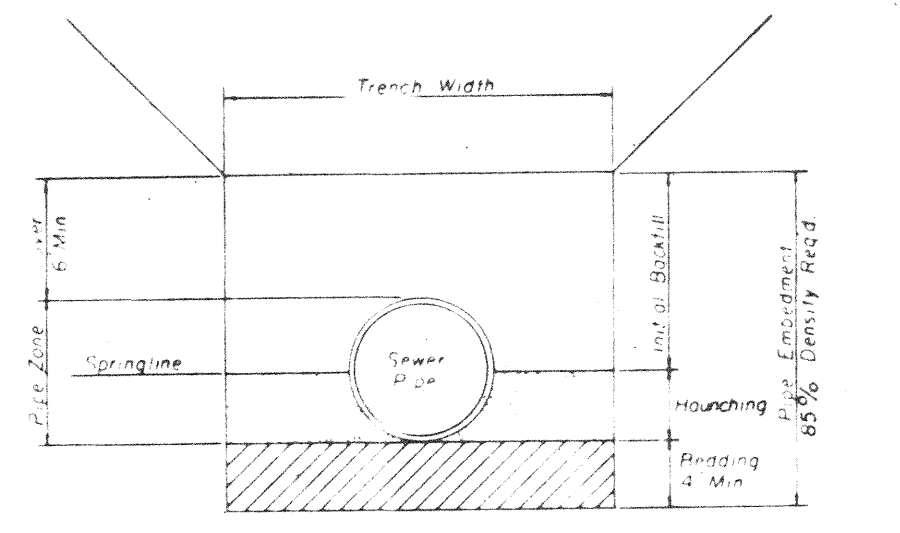
**HALF SECTION  
MANHOLE WITH DROP CONNECTION**



**TYPICAL SERVICE TO PROPERTY LINE  
WITH MODIFIED TEE JOINT**



**GRAVEL OR TEMPORARY SURFACE  
PERMANENT ASPHALT SURFACE  
TYPICAL TRENCH SECTIONS  
ACROSS IMPROVED SURFACE AREAS**



**TYPICAL BEDDING DETAIL  
PVC PIPE**

**AS-BUILT**  
Date 8-91

DESIGNED BY J.L.J.				DATE 12-3-80								<b>UNDERWOOD DEVELOPMENT COMPANY</b> <b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> <b>JACKSON, MISSISSIPPI</b>				<b>SEWER</b> <b>STANDARD CONSTRUCTION DETAILS</b>				PROJECT NO.	
DRAWN BY R.C.				AS SHOWN																INTRACT	
CHECKED BY J.L.J.				FILE NO.								S-1									
NO. DATE NATURE BY APP'D. REVISIONS																					

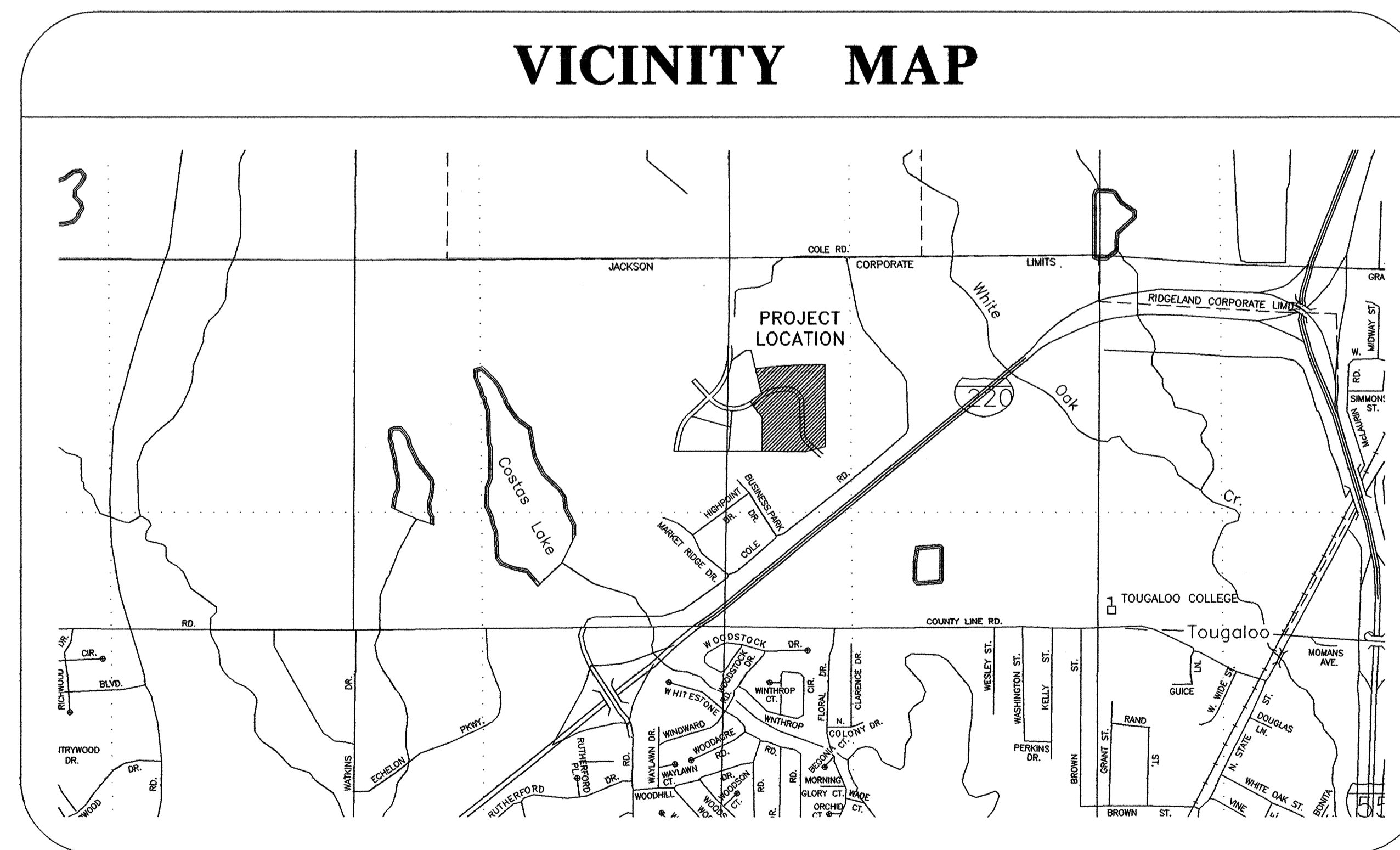
8/22-10/10 (5)

**ASBUILT CONSTRUCTION PLANS**  
**FOR**  
**EAST MARKETRIDGE DRIVE EXTENSION**  
**RIDGELAND, MISSISSIPPI**

Received 4-2-08

Due to pending sale of Madison Co.  
w/s to Ridgeland, this ~~is~~ section has  
never been accepted

**FOR**  
**COPELAND & JOHNS, INC.**  
**P.O. BOX 10488**  
**JACKSON, MISSISSIPPI 39289**



**BANKS ENGINEERING & SURVEYING, INC.**  
115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
OFFICE (601) 407-1240 \* FAX (601) 407-1245

in Madison County

QM-1616 (5)

## INDEX OF SHEETS

1. COVER SHEET
2. DRAWING INDEX
3. PROJECT OVERLAY
4. NOT USED
5. PLAN AND PROFILE - EAST MARKETRIDGE DRIVE (0+00 - 11+00)
6. PLAN AND PROFILE - EAST MARKETRIDGE DRIVE (11+00 - 17+47.52)
7. PLAN AND PROFILE - SANITARY SEWER LINE "A" / DRAINAGE LINE "A"
8. PLAN AND PROFILE - DRAINAGE LINE "B"
9. STANDARD WATER AND SEWER DETAILS
10. DRAINAGE AND GRADING DETAILS

DATE	REVISION

DRAWING NAME: D:\PROJECTS\421-06  
DRAWN BY: NPW SCALE: NTS  
DATE OF DRAWING: 3-06 PROJECT NO.: 421-06-001  
CHECKED BY: APPROVED BY:

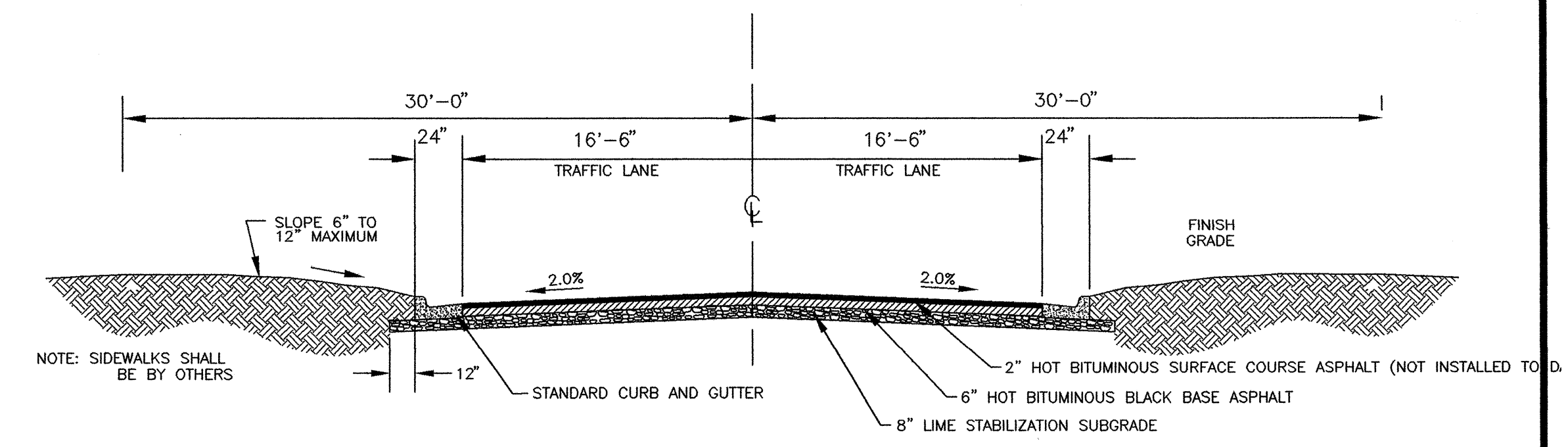
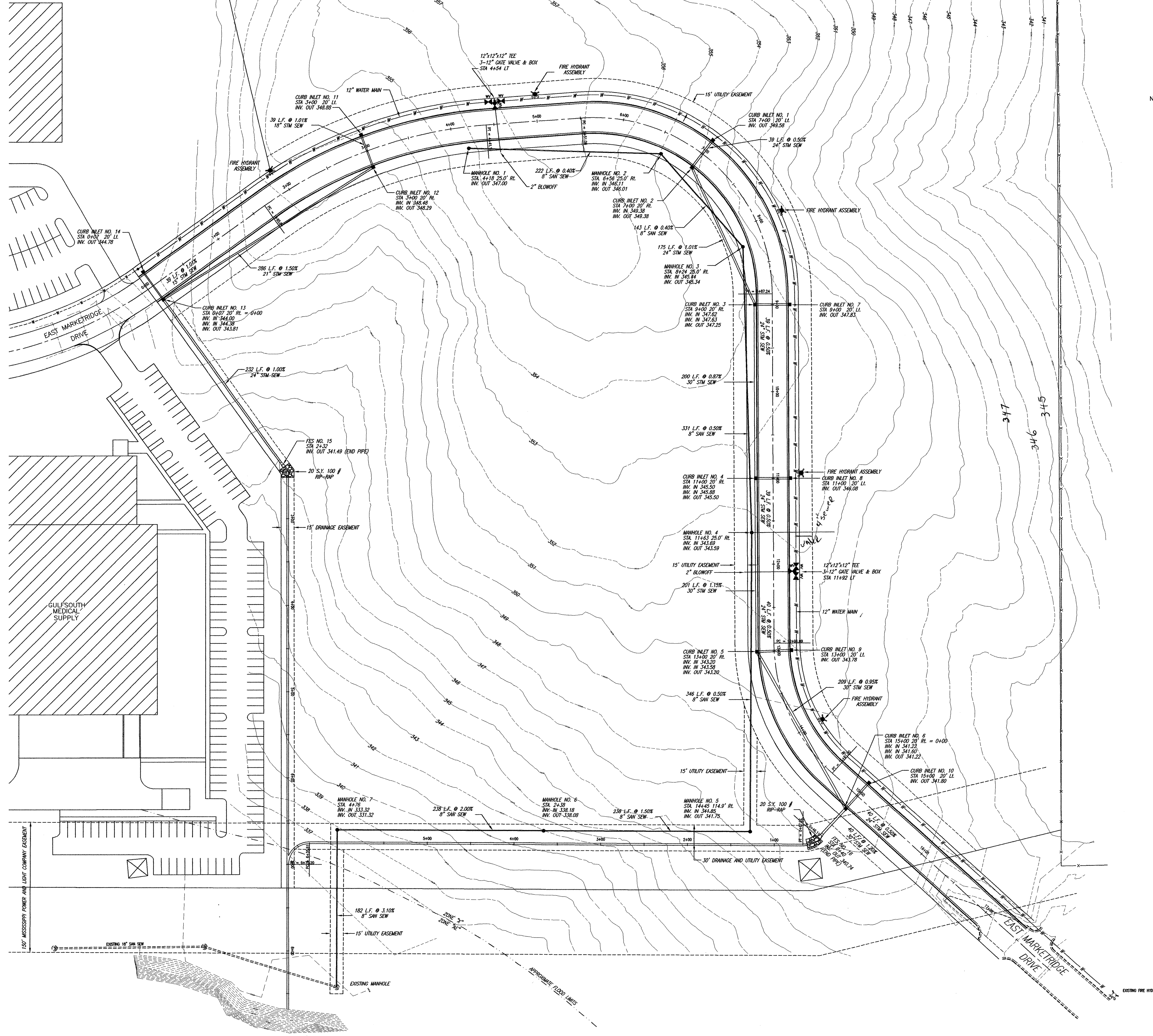
**B** **BANKS ENGINEERING & SURVEYING, INC.**  
115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
P.O. BOX 10488  
JACKSON, MISSISSIPPI 39289

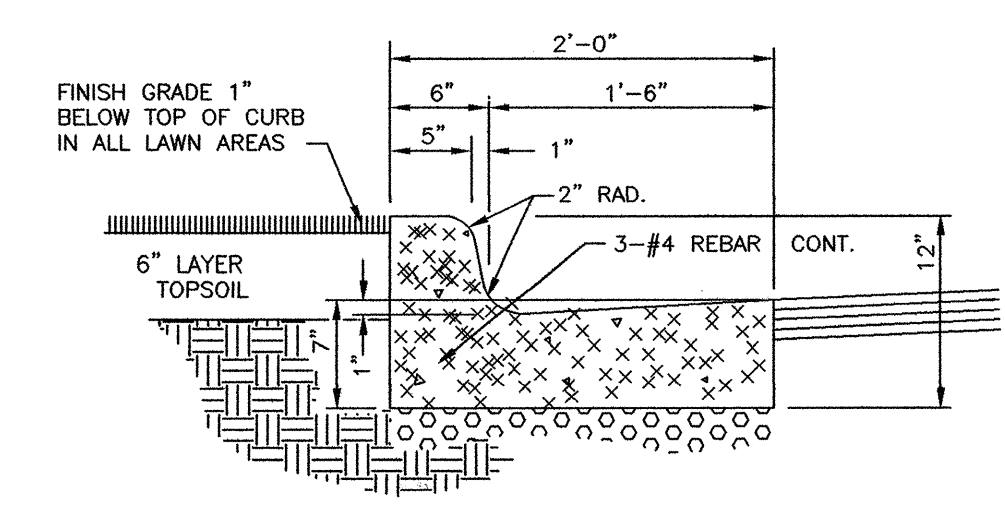
PROJECT: DRAWING INDEX  
EAST MARKETRIDGE DRIVE EXTENSION (ASBUILT)

SHEET NO.  
**2**

ACRES ±



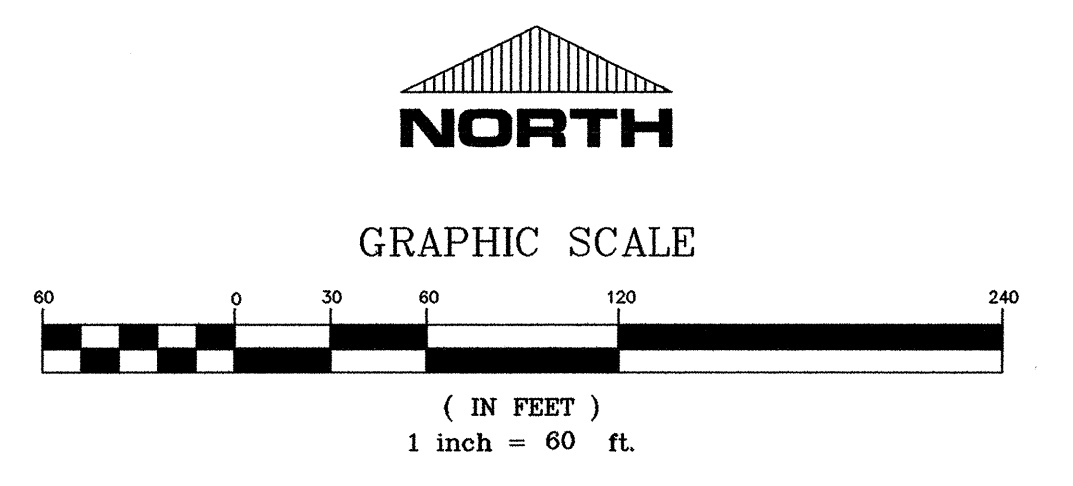
TYPICAL STREET SECTION  
N.T.S.



CURB & GUTTER DETAIL

NOTES:

1. THIS PROPERTY IS SITUATED IN FLOOD ZONES "X" AND "AE" ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 28089C0320 D, DATED APRIL 15, 1994.
2. ALL WATERLINE SHOWN IS C-900 CLASS 150 PVC.
3. ALL SEWERLINE IS SDR-26 PVC.



DATE	REVISION

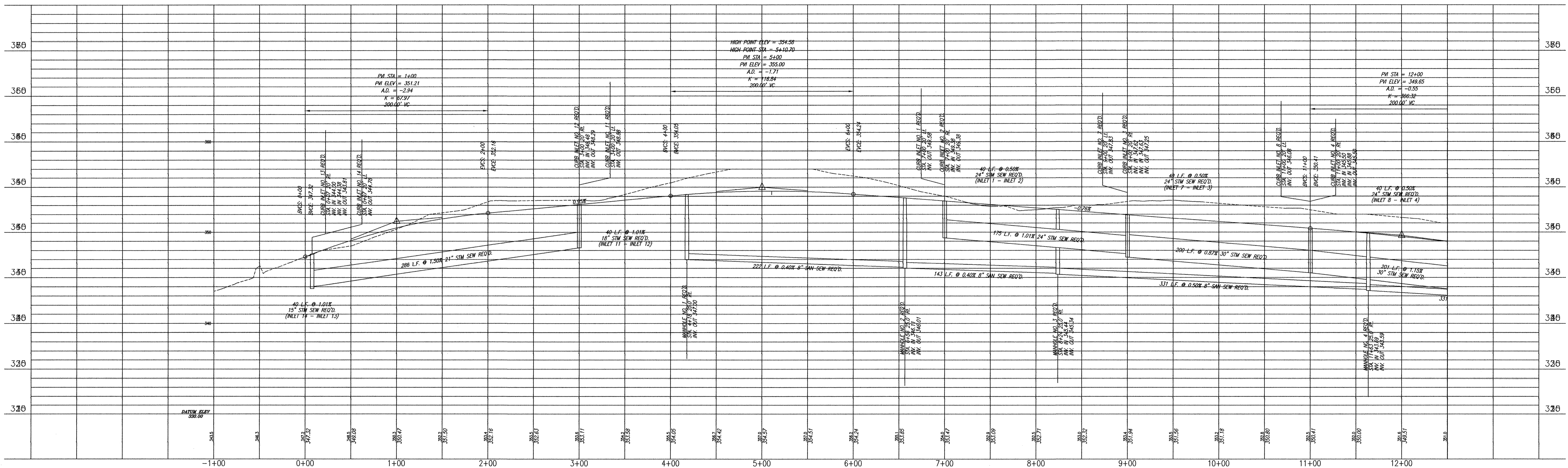
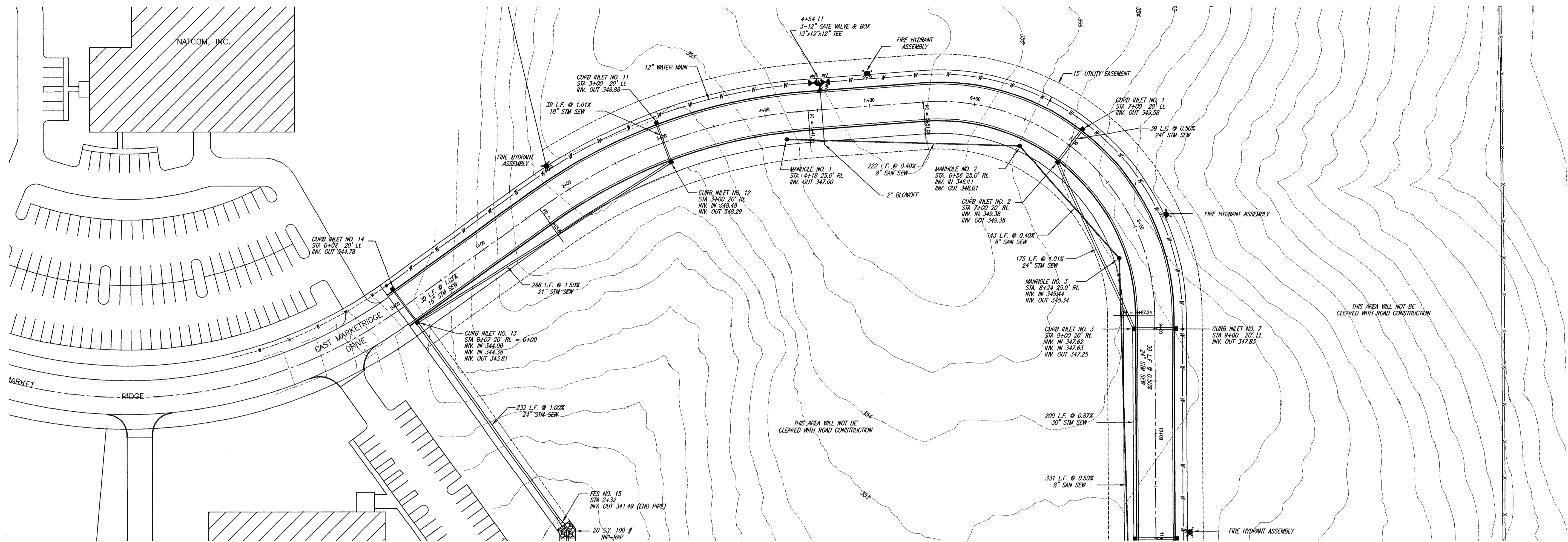
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 CHECKED BY: APPROVED BY:

**B** BANKS ENGINEERING & SURVEYING, INC.  
 115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
 OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
 P.O. BOX 10488  
 JACKSON, MISSISSIPPI 39289

PROJECT:  
 PROJECT OVERALL  
 EAST MARKETRIDGE DRIVE EXTENSION (ASBULT)

SHEET NO.  
**3**



DATE	REVISION

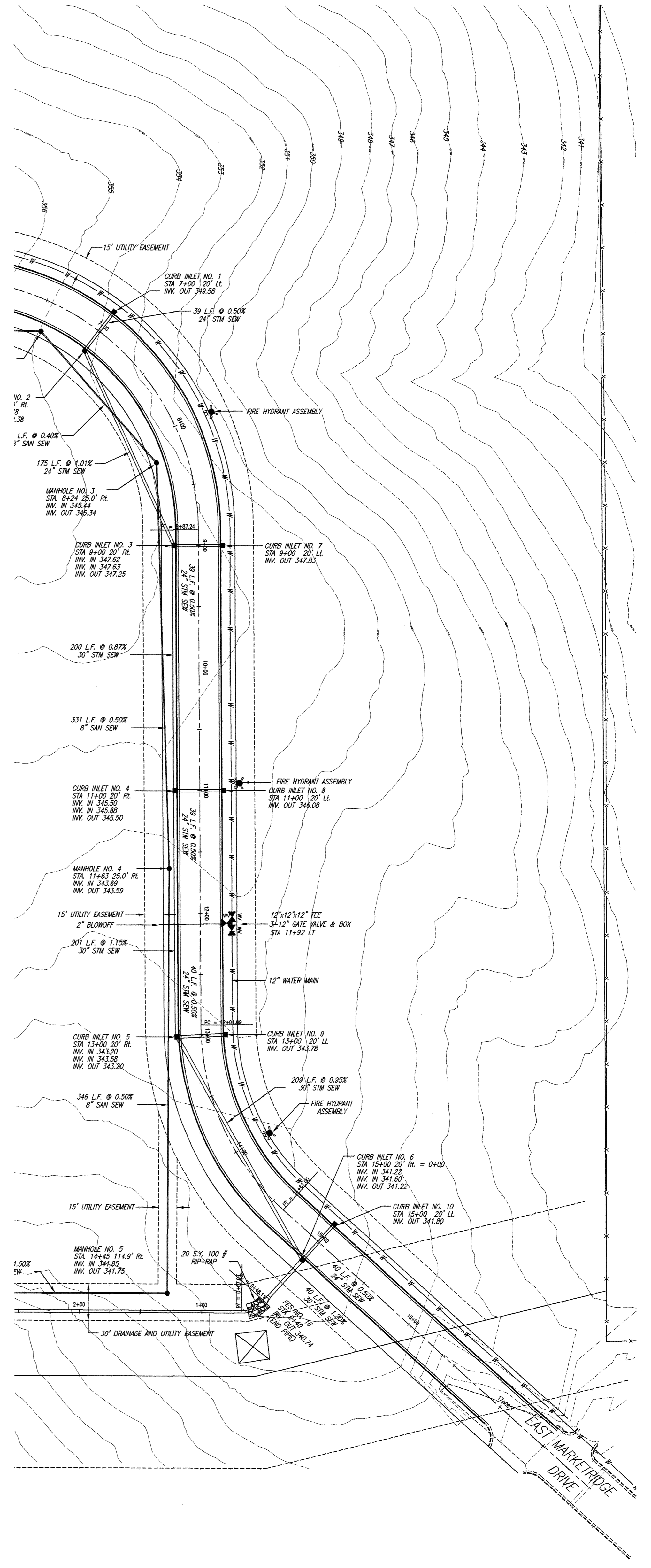
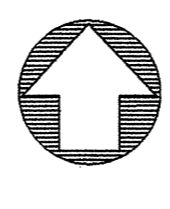
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 CHECKED BY: APPROVED BY:

**B** BANKS ENGINEERING & SURVEYING, INC.  
 115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
 OFFICE (601) 407-1240 \* FAX (601) 407-1245

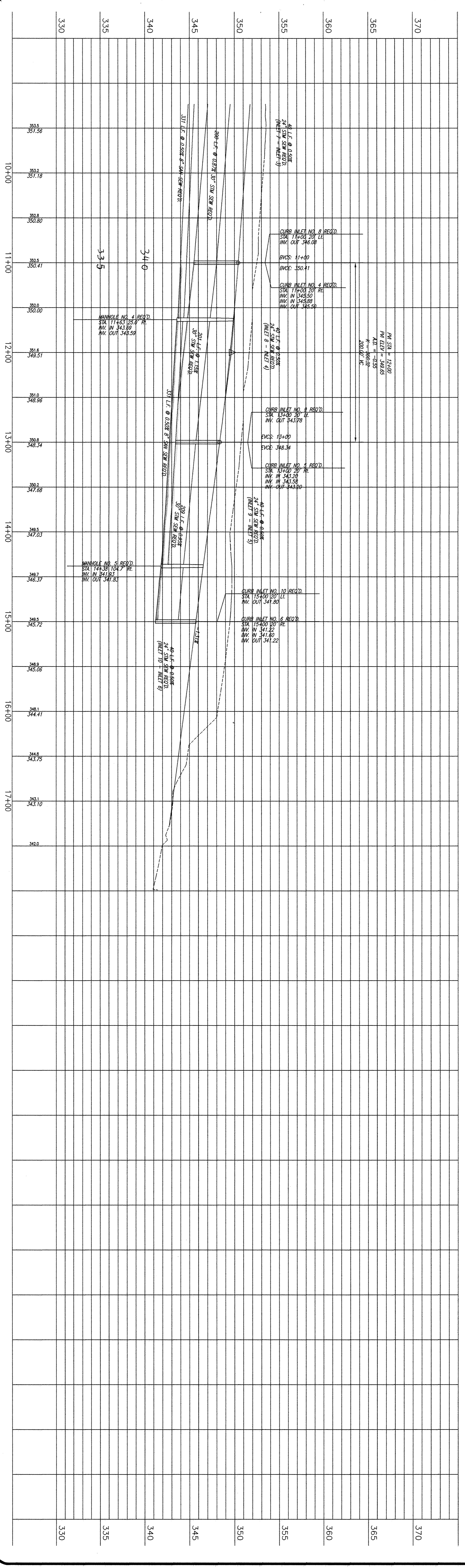
CLIENT:  
**COPELAND AND JOHNS**  
 P.O. BOX 10488  
 JACKSON, MISSISSIPPI 39289

PROJECT:  
**PLAN AND PROFILE - 0+00 TO 11+00**  
**EAST MARKETRIDGE DRIVE EXTENSION (ASBUILT)**

SHEET NO.  
**5**



Friday 4-4-08  
 6" Sewer Tap 895.00  
 6" Fire line Tap \$ 3834.66  
 Meter (Commercial) \$



DATE	REVISION

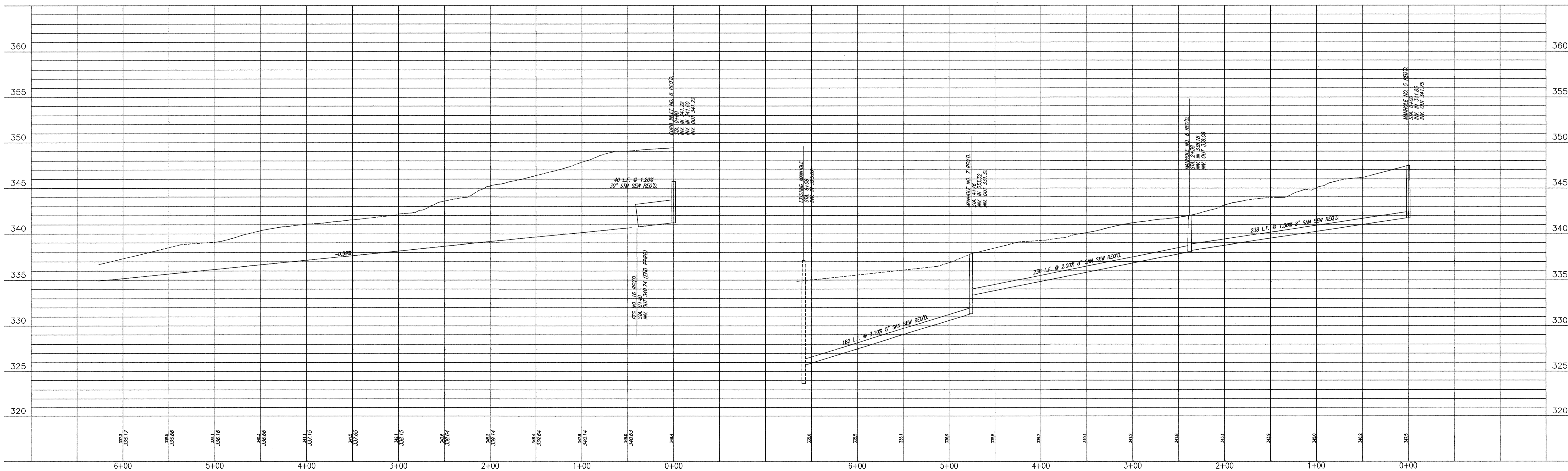
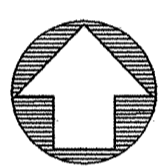
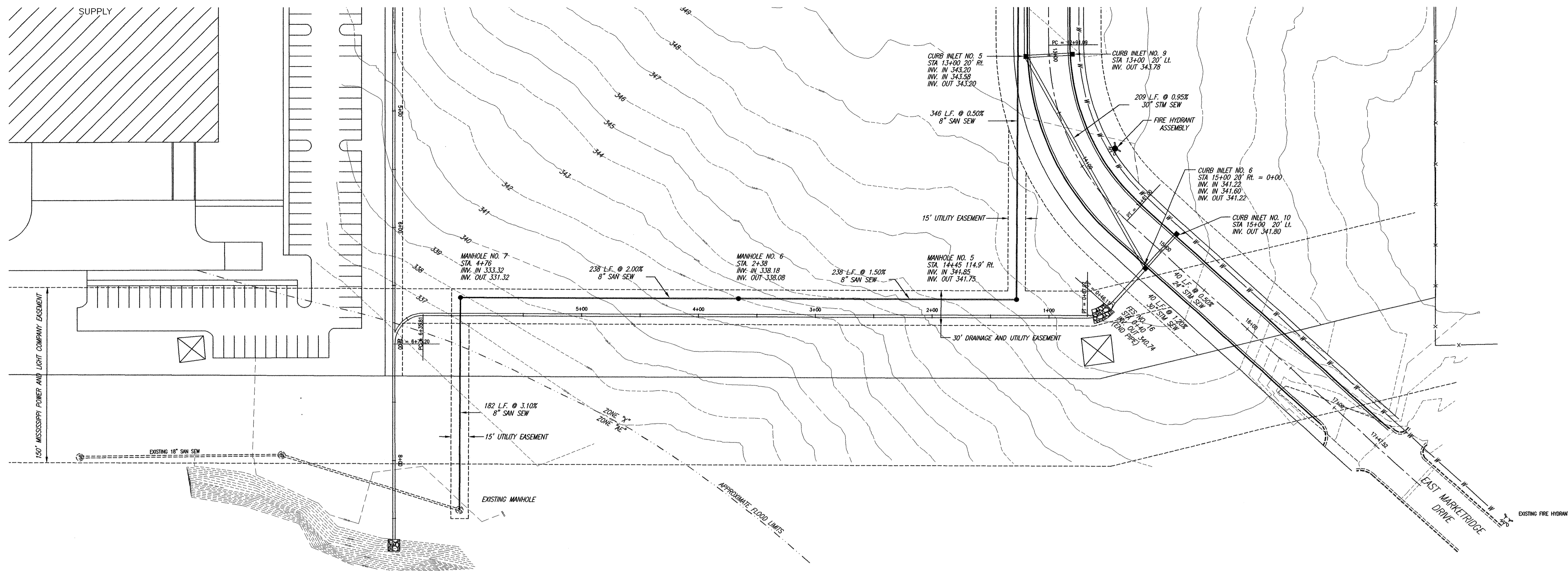
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 DRAWN BY: MPH  
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 CHECKED BY:   
 SCALE: AS SHOWN  
 PROJECT NO.: 421-06-001  
 APPROVED BY:   
 BANKS ENGINEERING & SURVEYING, INC.

**B** BANKS ENGINEERING & SURVEYING, INC.  
 115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
 OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
 P.O. BOX 10488  
 JACKSON, MISSISSIPPI 39289

PROJECT:  
 PLAN/PROFILE - 11+00 TO 17+47.52  
 EAST MARKETDRIDGE DRIVE EXTENSION (ASBUILT)

SHEET NO.  
**6**



DATE	REVISION

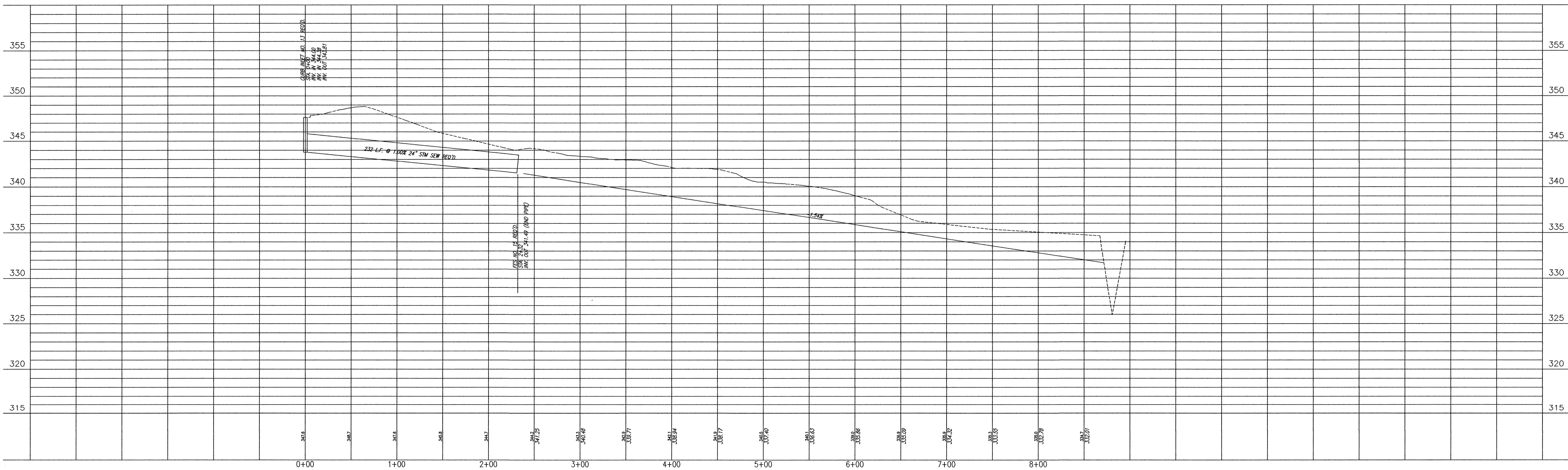
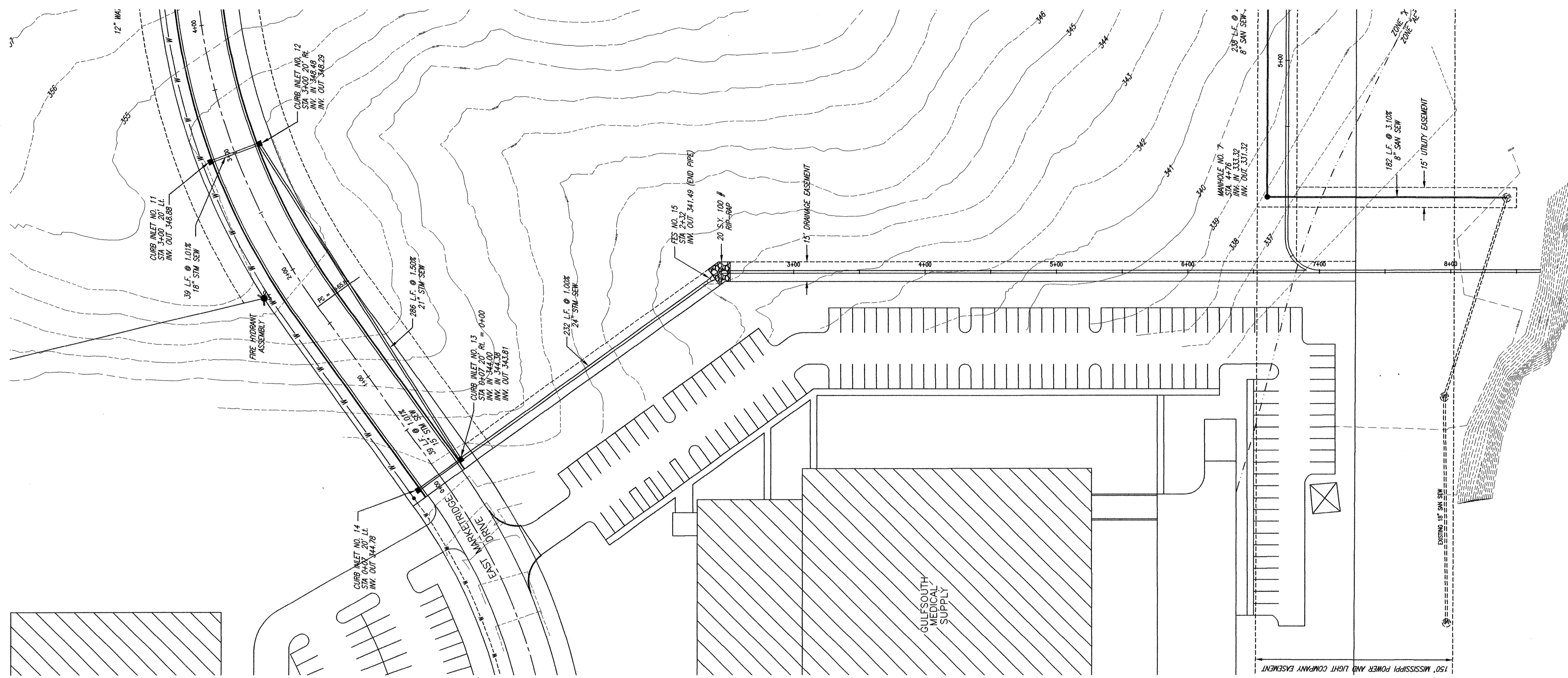
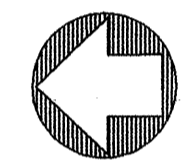
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 DATE OF DRAWING: 3-06 PROJECT NO.: 421-06-001  
 CHECKED BY: APPROVED BY:

**B** BANKS ENGINEERING & SURVEYING, INC.  
 115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
 OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
 P.O. BOX 10488  
 JACKSON, MISSISSIPPI 39289

PROJECT:  
 PLAN AND PROFILE  
 SANITARY SEWER LINE "A" AND DRAINAGE LINE "A"  
 EAST MARKETRIDGE DRIVE EXTENSION (ASBUILT)

SHEET NO.  
**7**



DATE	REVISION

DRAWING NAME: D:\PROJECTS\421-06  
 DRAWN BY: NPW SCALE: AS SHOWN  
 DATE OF DRAWING: 3-06 PROJECT NO.: 241-06-001  
 CHECKED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

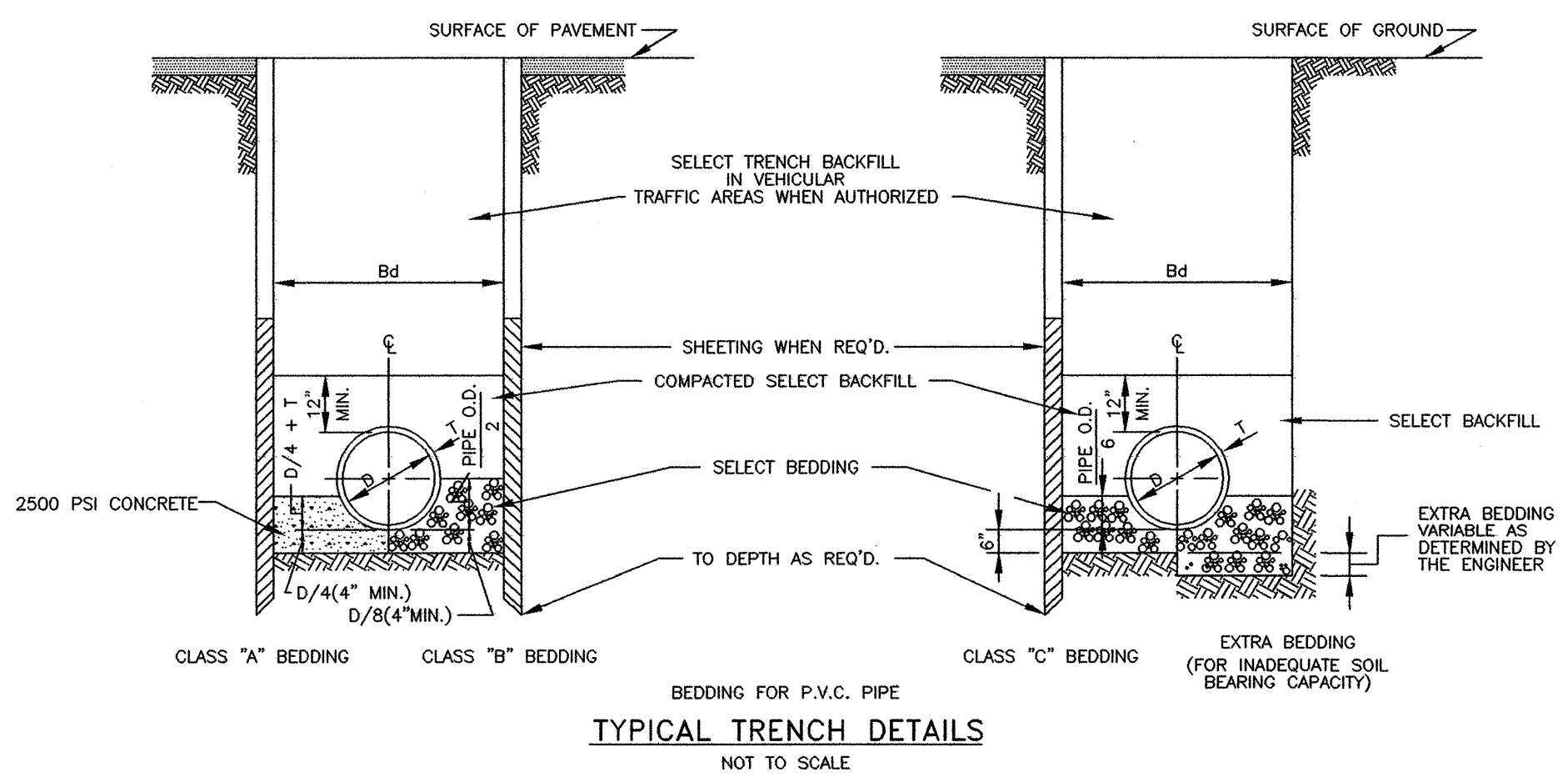
**B** BANKS ENGINEERING & SURVEYING, INC.  
 115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
 OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
 P.O. BOX 10488  
 JACKSON, MISSISSIPPI 39289

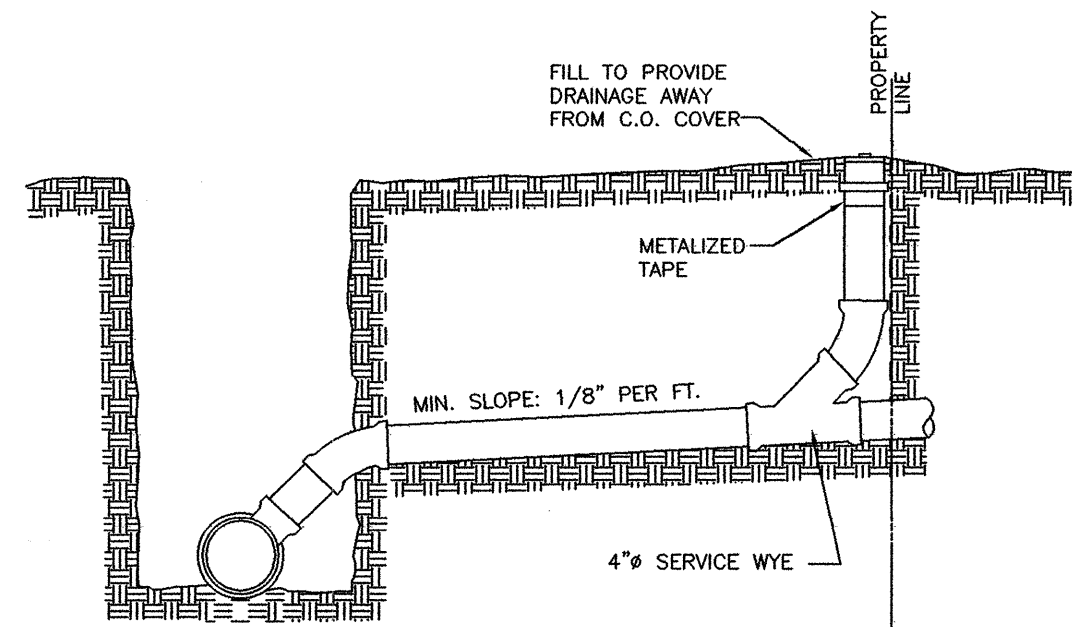
PROJECT:  
 PLAN/PROFILE - DRAINAGE LINE "B"  
 EAST MARKETRIDGE DRIVE EXTENSION (ASBUILT)

SHEET NO.  
**8**

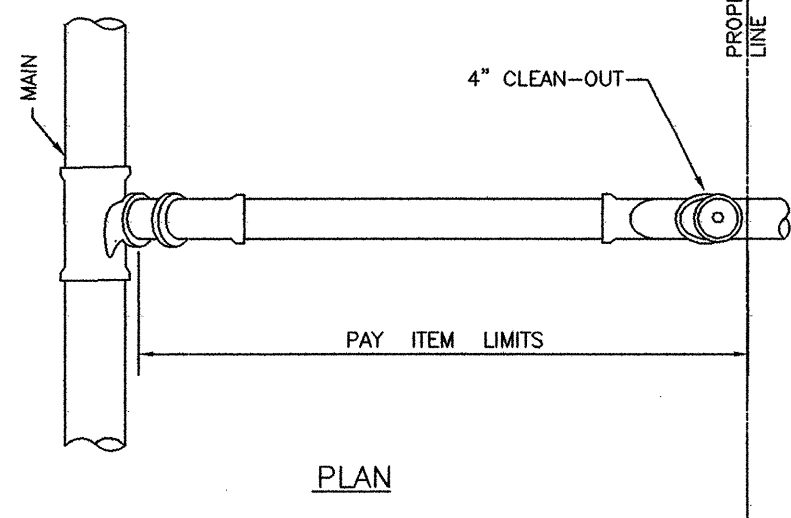




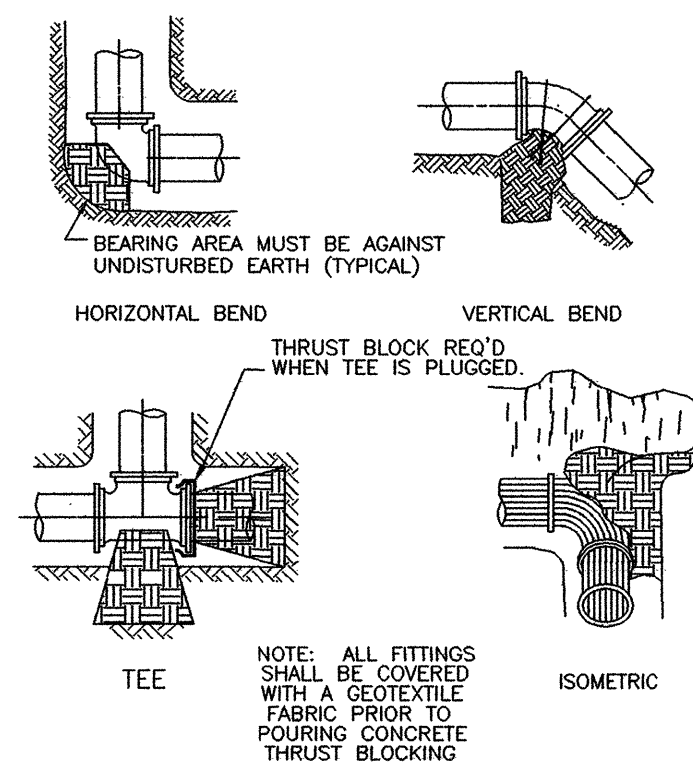
TYPICAL TRENCH DETAILS  
NOT TO SCALE



SECTION

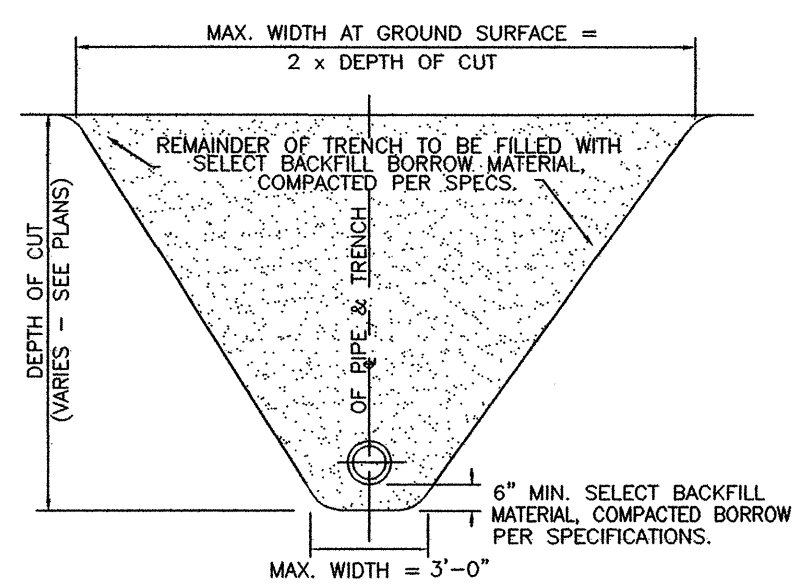


PLAN  
SEWER SERVICE



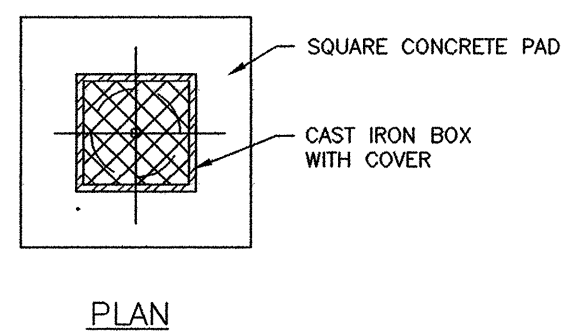
BEARING AREAS FOR THRUST BLOCKING IN SQUARE FEET						
FITTING:	4" DIA.	6" DIA.	8" DIA.	10" DIA.	12" DIA.	14" DIA.
TEES	0.9	1.9	4.7	4.7	6.7	9.0
90°	1.3	2.7	6.7	6.7	9.4	12.7
45°	0.7	1.5	3.6	3.6	5.1	6.9
22 1/2°	0.4	0.8	1.8	1.8	2.6	3.5

THRUST BLOCKING  
N.T.S.

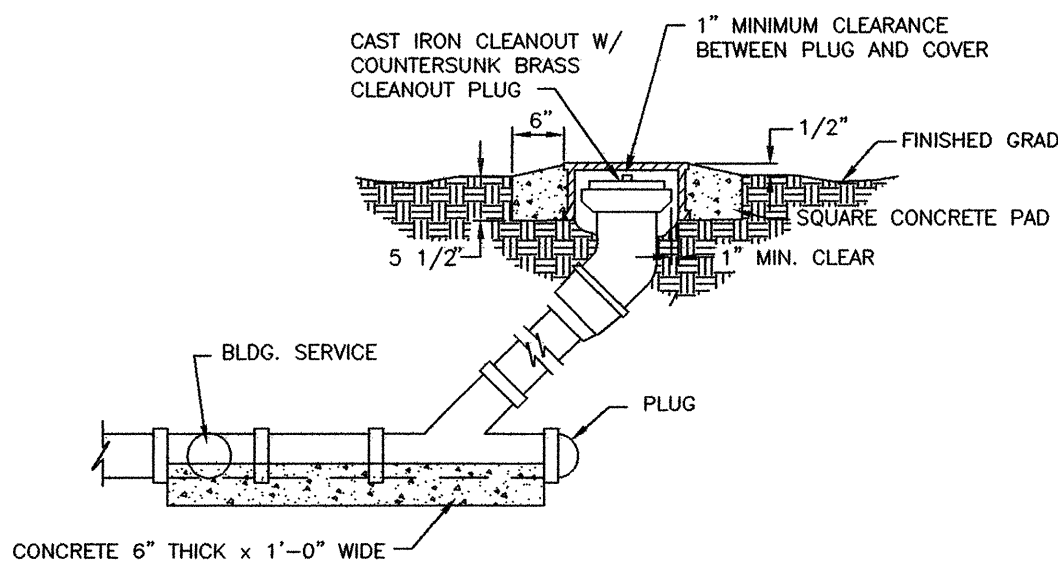


SEWER TRENCH & BEDDING DETAIL  
N.T.S.

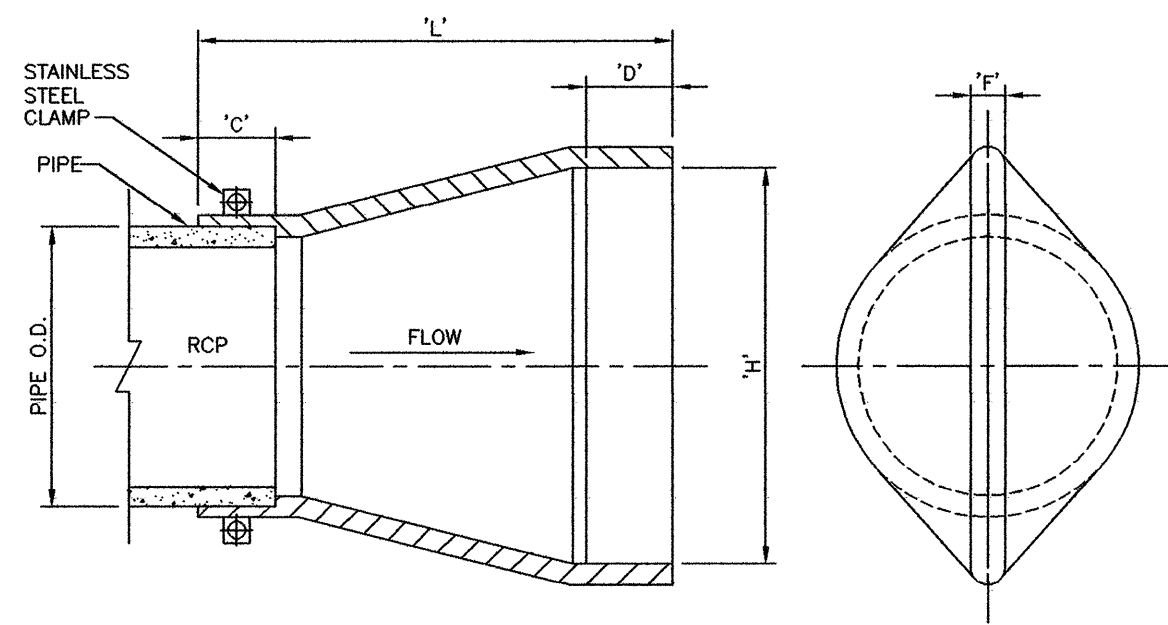
NOTE: CONTRACTOR SHALL INSTALL TEMPORARY BRACING, TRENCHBOX AND/OR SHEET PILING IF NECESSARY TO ENSURE STABILITY OF TRENCH UNTIL UTILITY IS FULLY BACKFILLED, INCIDENTAL TO PIPE INSTALLATION.



PLAN

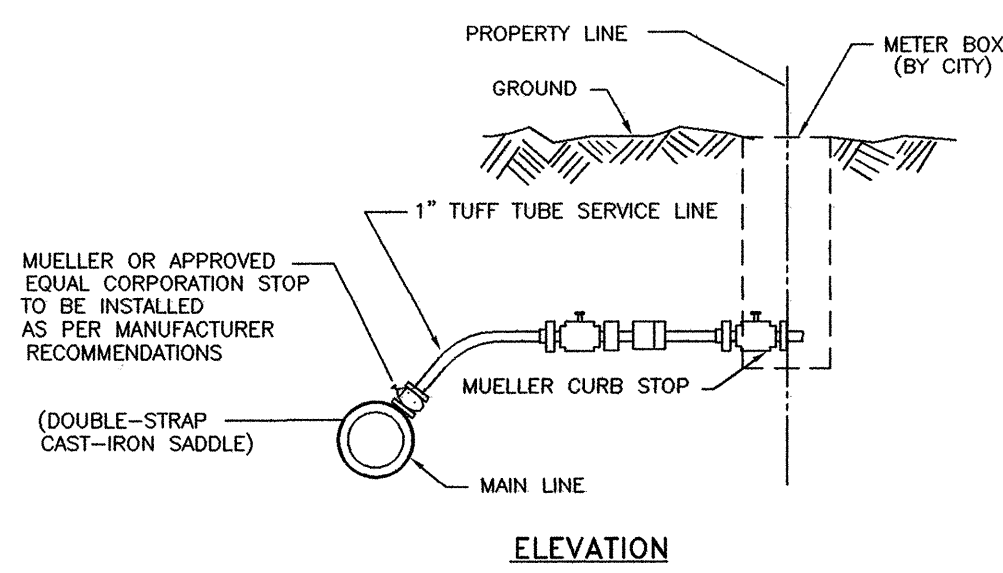


CLEANOUT DETAIL  
N.T.S.

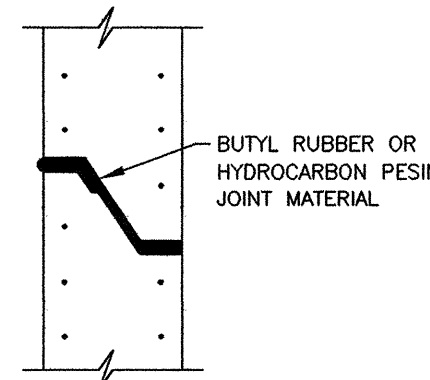


TIDEFLEX CHECK VALVE

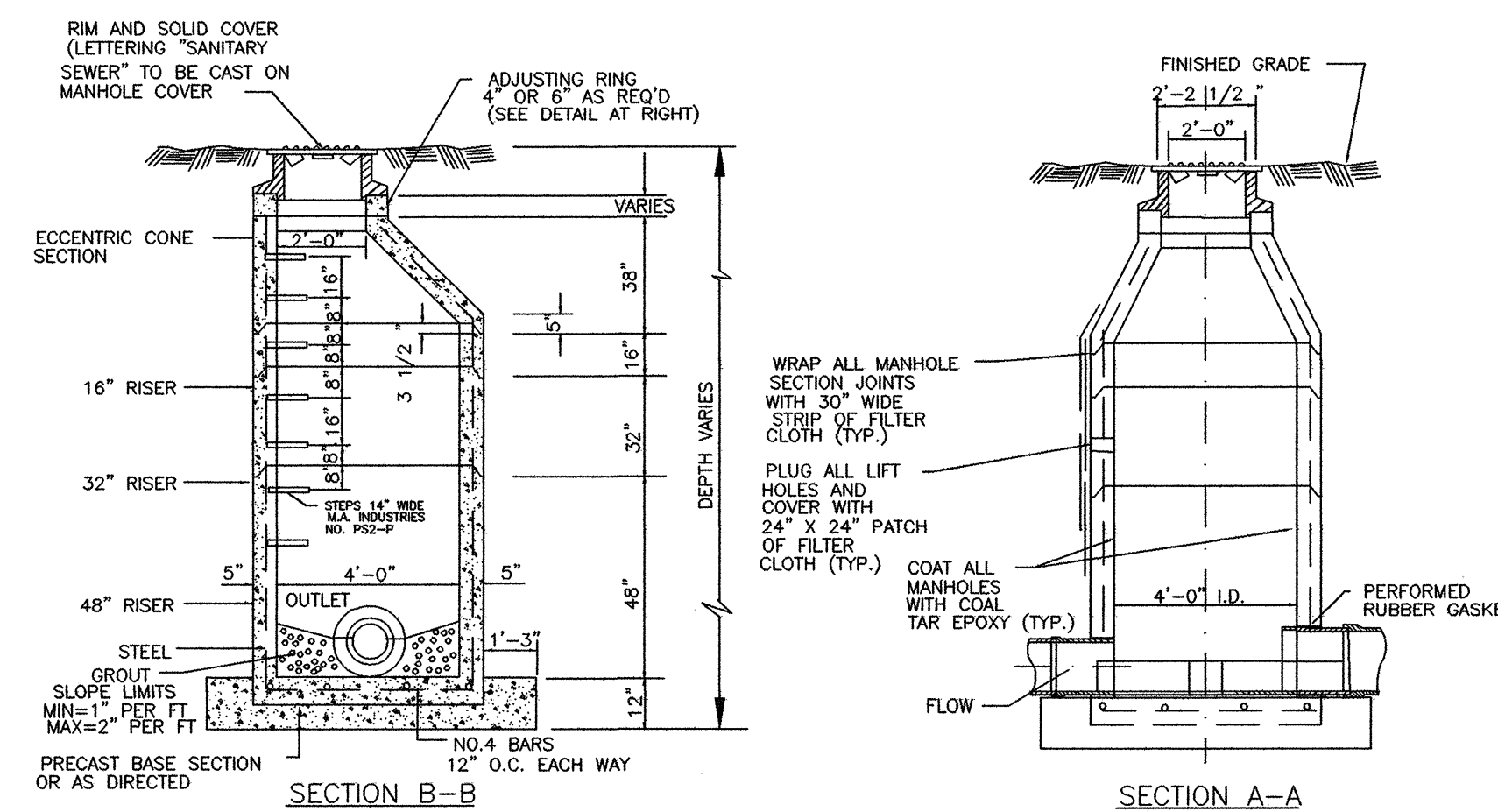
VALVE IS TO BE MOUNTED WITH THE OUTLET IN THE VERTICAL POSITION



TYPICAL WATER SERVICE CONNECTION  
N.T.S.



TYPICAL PRECAST CONCRETE  
MANHOLE JOINT DETAIL  
NOT TO SCALE

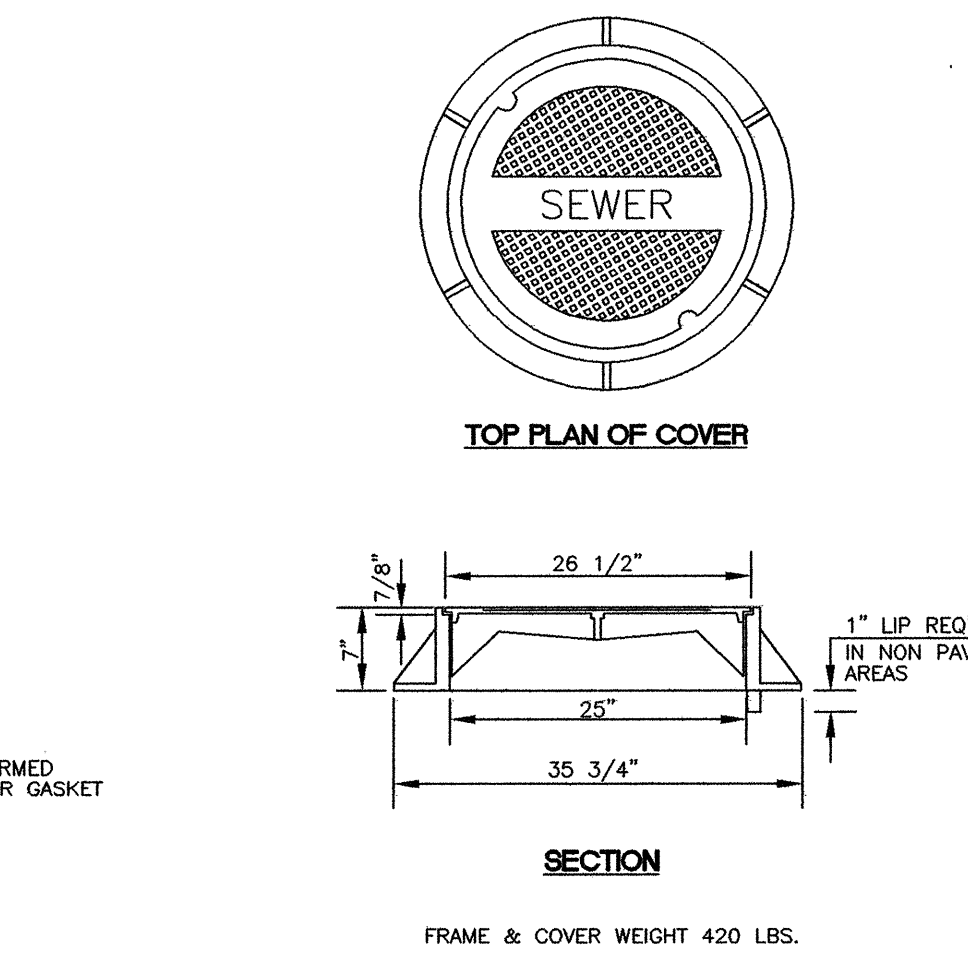


TYPICAL PRECAST CONCRETE  
SEWER MANHOLE DETAIL  
N.T.S.

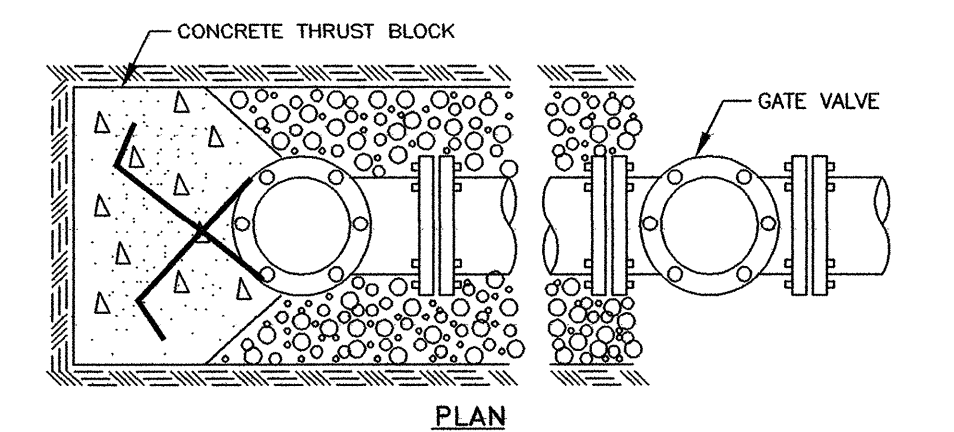
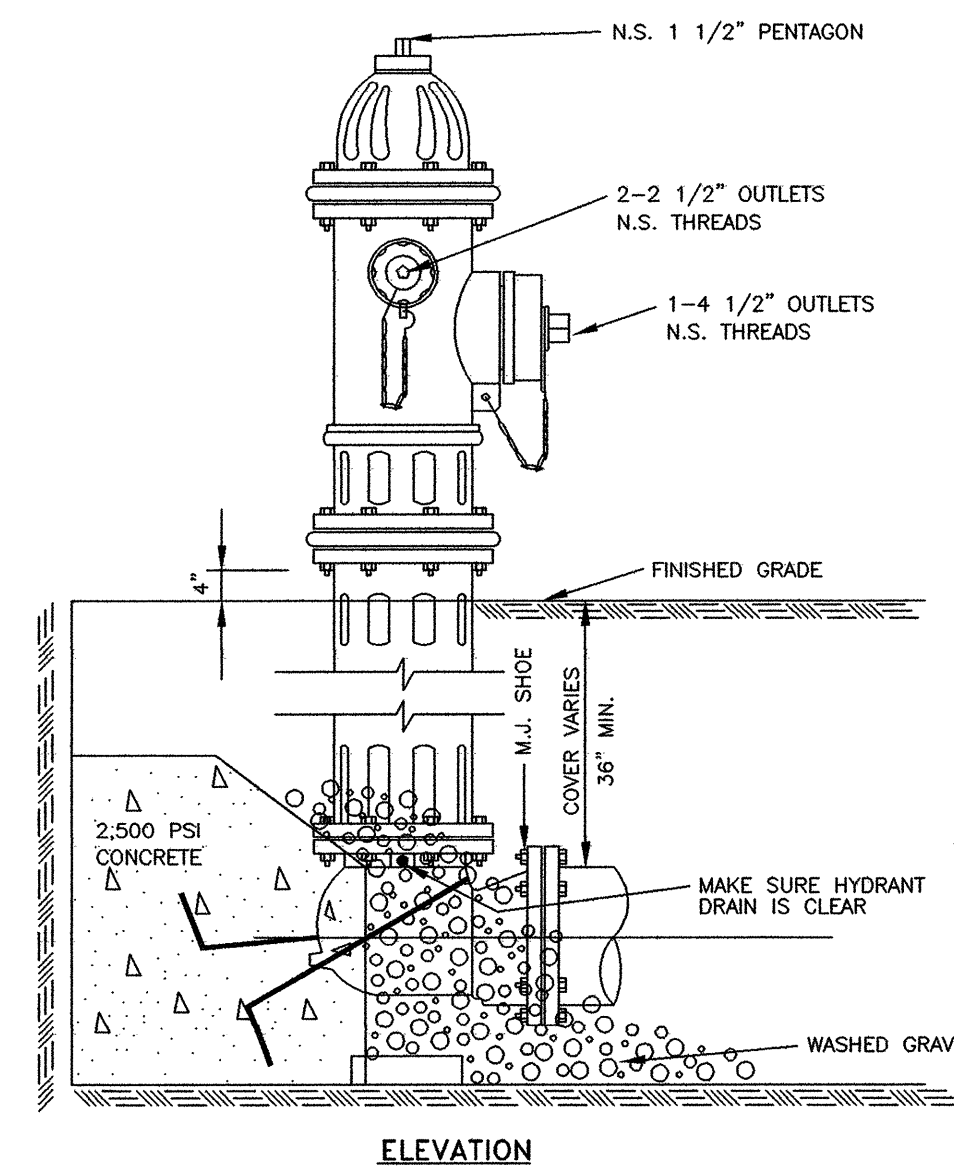
VALVE SIZE (NOM.)	PIPE O.D.	L	H	F
16"	16"	24"	22-1/4"	1-1/4"
18"	18"	26"	26-3/4"	1-1/4"
24"	24"	36"	37-1/4"	1-3/4"
30"	30"	38"	43-3/4"	2"
36"	36"	50"	51-3/8"	2-3/8"
42"	42"	64"	61-1/2"	2-1/2"

SANITARY SEWER NOTES:

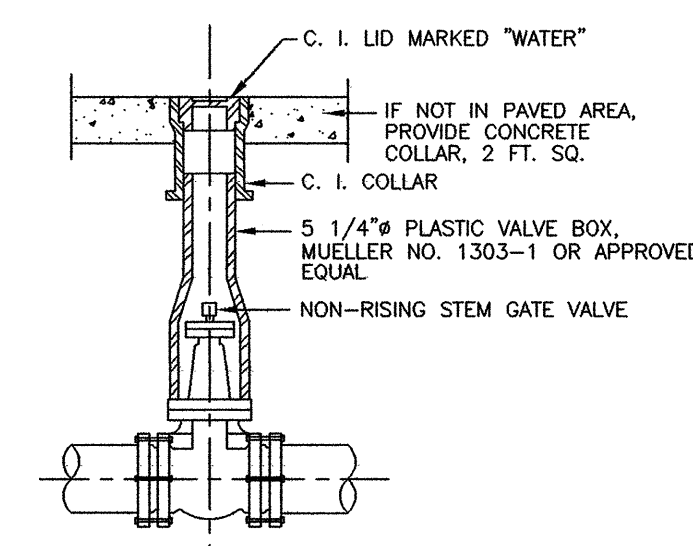
- MANHOLE INTERIOR TO BE COATED WITH 20 MIL THICKNESS GLOTTEN TOP SERVICE BLACK BITUMINOUS COATING (OR APPROVED EQUAL) APPLIED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
- MAXIMUM PERMITTED INFILTRATION/EXFILTRATION IS 200 GALLONS PER INCH DIAMETER PER MILE PER DAY.
- PIPE TO MANHOLE CONNECTIONS: PVC PIPE - INSTALL PREMOLDED FLEXIBLE MANHOLE JOINT SEAL DEVICE TO CONNECT PIPE TO MANHOLE WALL.
- 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.



STANDARD MANHOLE FRAME AND COVER  
NOT TO SCALE



TYPICAL FIRE HYDRANT INSTALLATION  
NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.  
NOT TO SCALE



GATE VALVE BOX & COVER  
N.T.S.

NOTES: 1. VALVE BOX SECTIONS SHALL BE OF THE ADJUSTABLE SCREW TYPE.  
2. FURNISH PLASTIC VALVE BOX EXTENSIONS AS REQUIRED.

DATE	REVISION

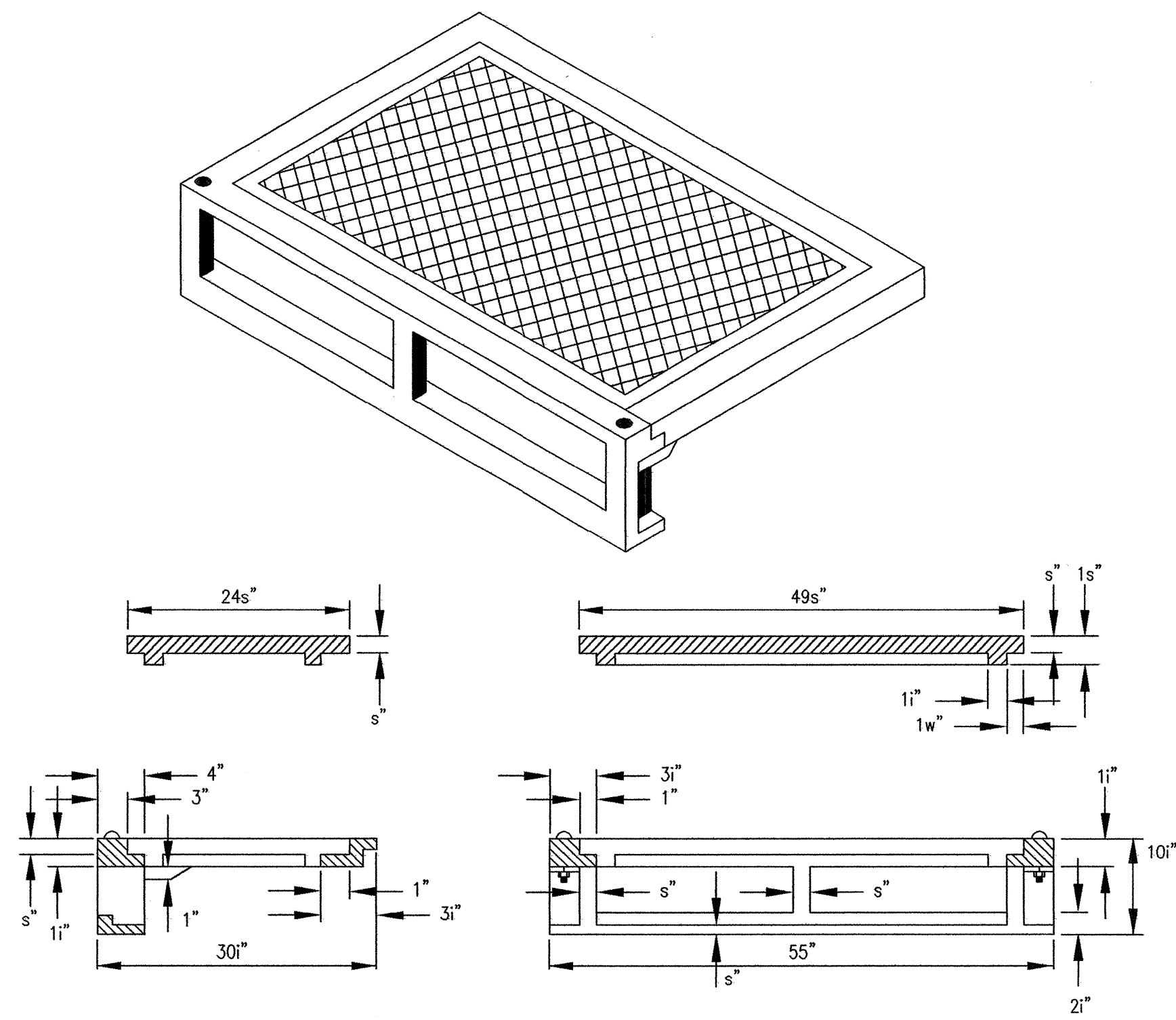
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DATE OF DRAWING: 3-06	APPROVED BY:
CHECKED BY:	

**B** BANKS ENGINEERING & SURVEYING, INC.  
115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
P.O. BOX 10488  
JACKSON, MISSISSIPPI 39289

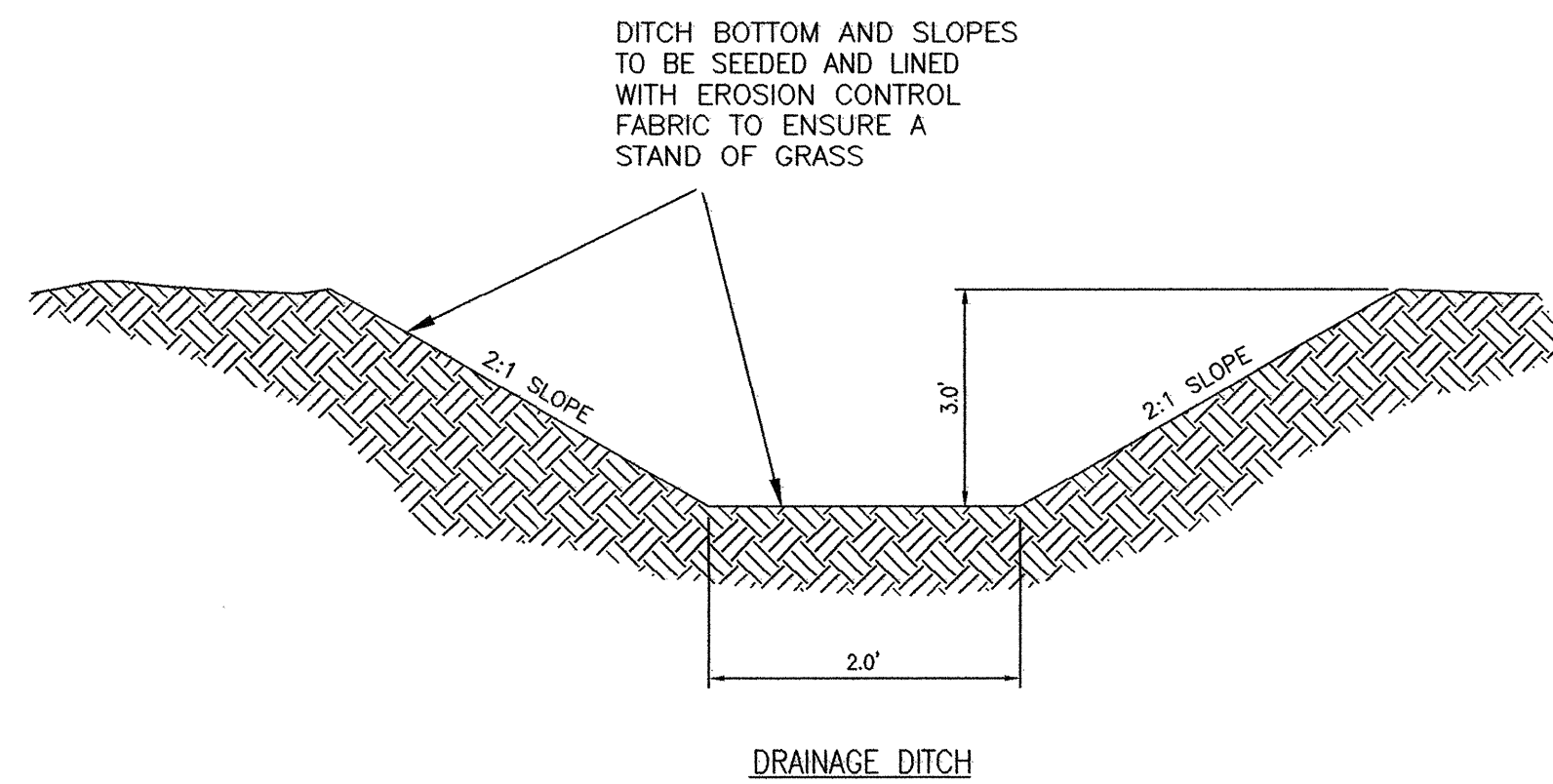
PROJECT:  
STANDARD WATER AND SEWER DETAILS  
EAST MARKETRIDGE DRIVE EXTENSION (ASBULT)

SHEET NO.  
**9**

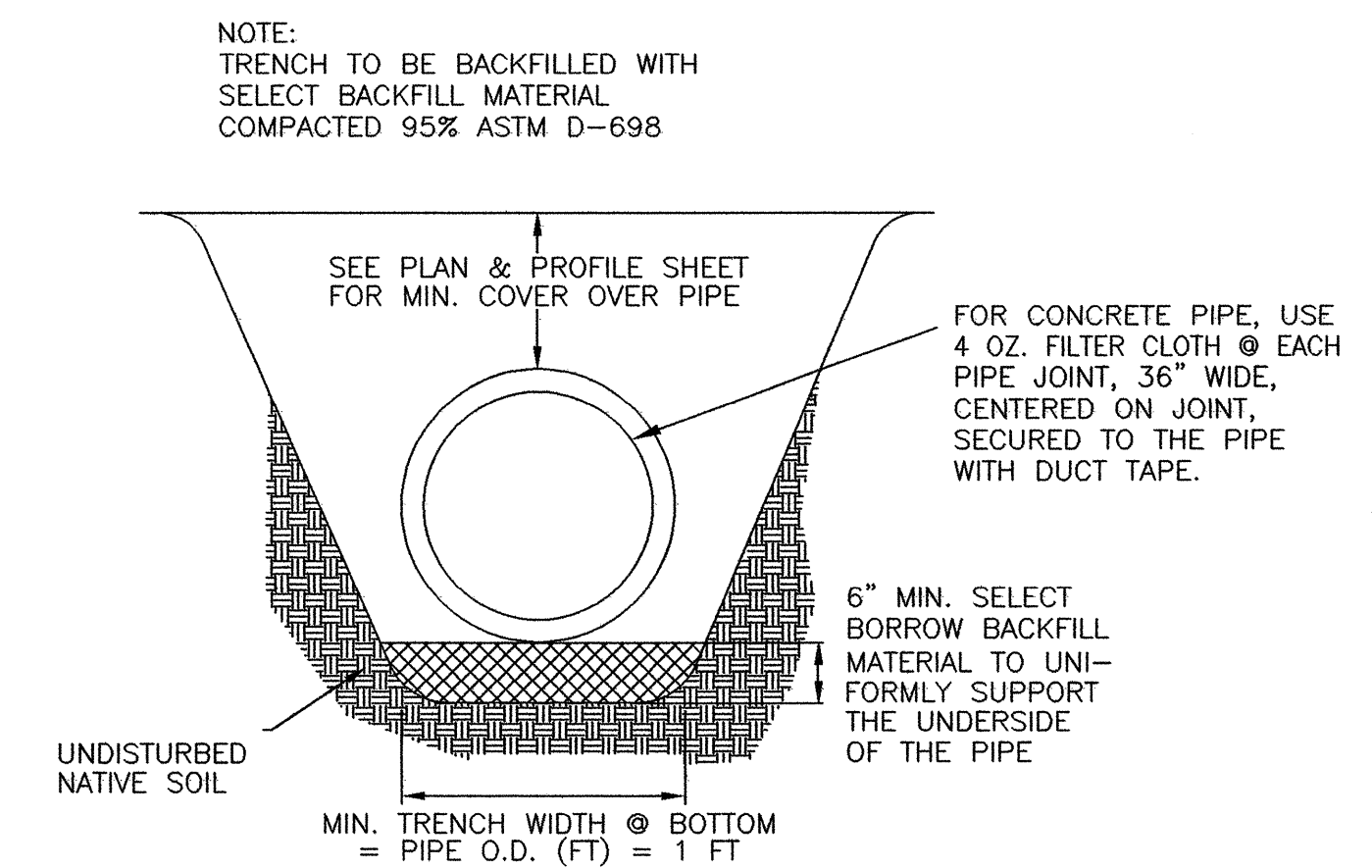


**STANDARD CURB INLET CASTING**

(VULCAN RCB-7)  
N.T.S.



**TYPICAL DITCH DETAIL**



NOTE: NO LIFTING HOLES SHALL BE ALLOWED  
SEE SPECIFICATIONS

N.T.S.

**STORM DRAIN BEDDING DETAIL**

DATE	REVISION

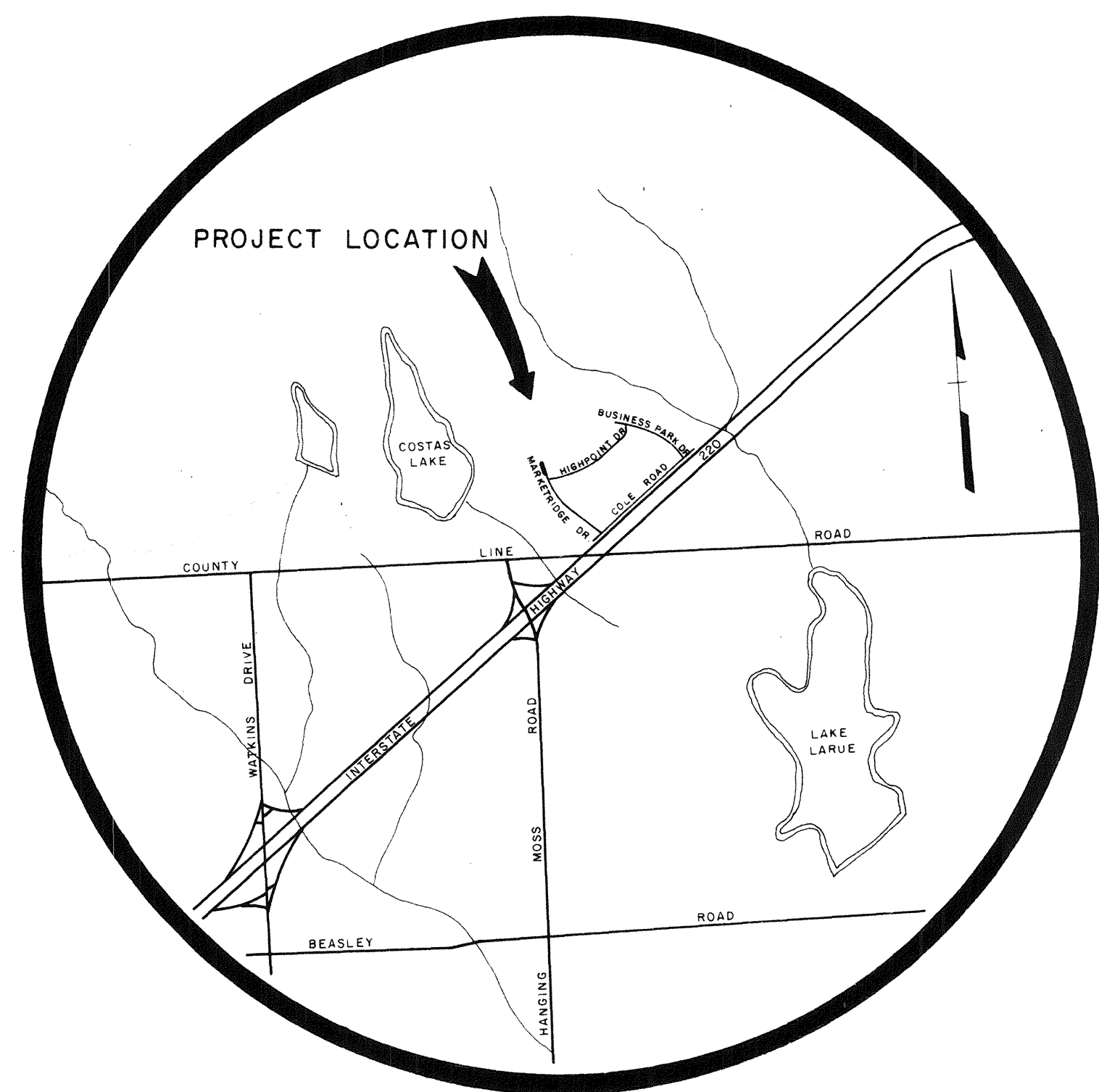
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DRAWN BY: NPW	PROJECT NO.: 421-06-001
DATE OF DRAWING: 3-06	CHECKED BY: _____
CHECKED BY: _____	APPROVED BY: _____

**B** **BANKS ENGINEERING & SURVEYING, INC.**  
115 LONE WOLF DRIVE SUITE B \* MADISON, MS 39110  
OFFICE (601) 407-1240 \* FAX (601) 407-1245

CLIENT:  
**COPELAND AND JOHNS**  
P.O. BOX 10488  
JACKSON, MISSISSIPPI 39289

PROJECT:  
**DRAINAGE AND GRADING DETAILS**  
**EAST MARKETRIDGE DRIVE EXTENSION (ASBUILT)**

SHEET NO.  
**10**



MARKETRIDGE DRIVE EXTENSION  
220 BUSINESS PARK

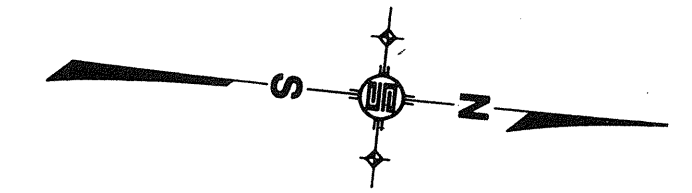
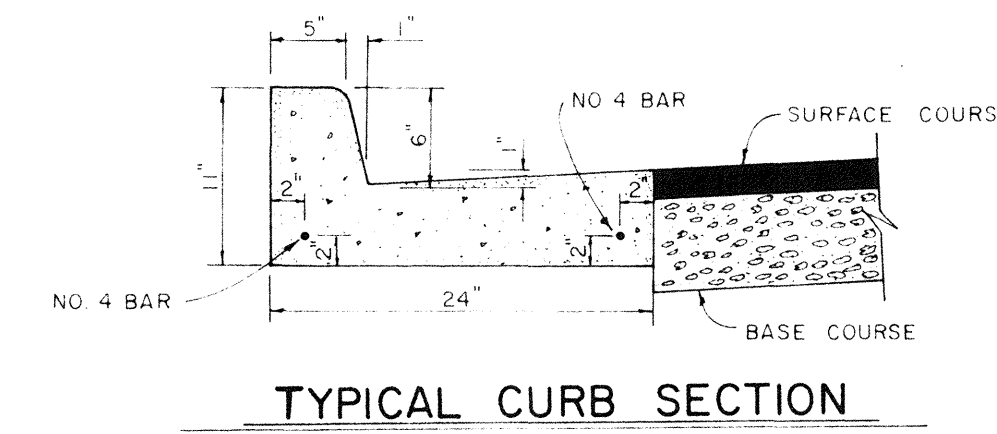
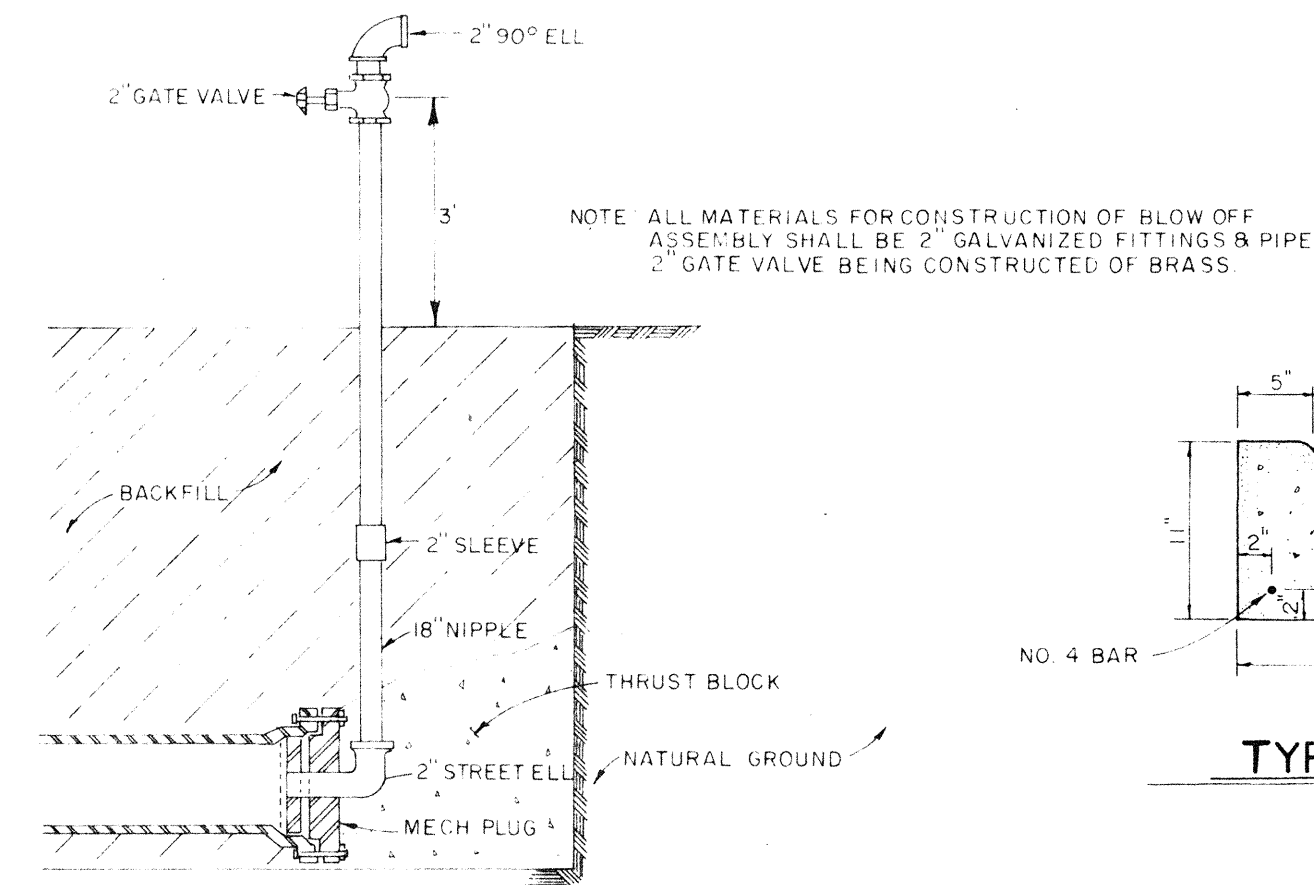
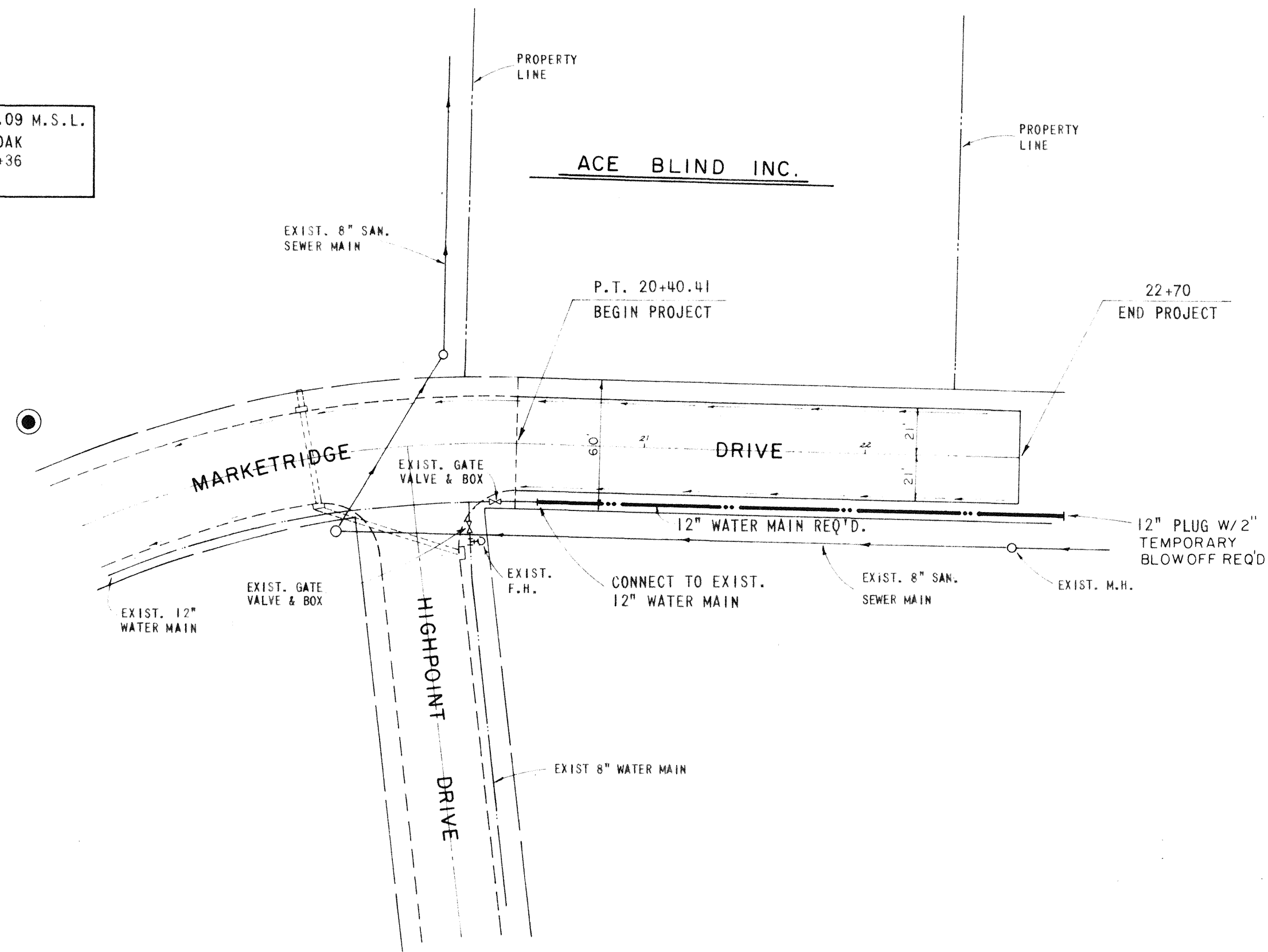
MADISON COUNTY, MISSISSIPPI



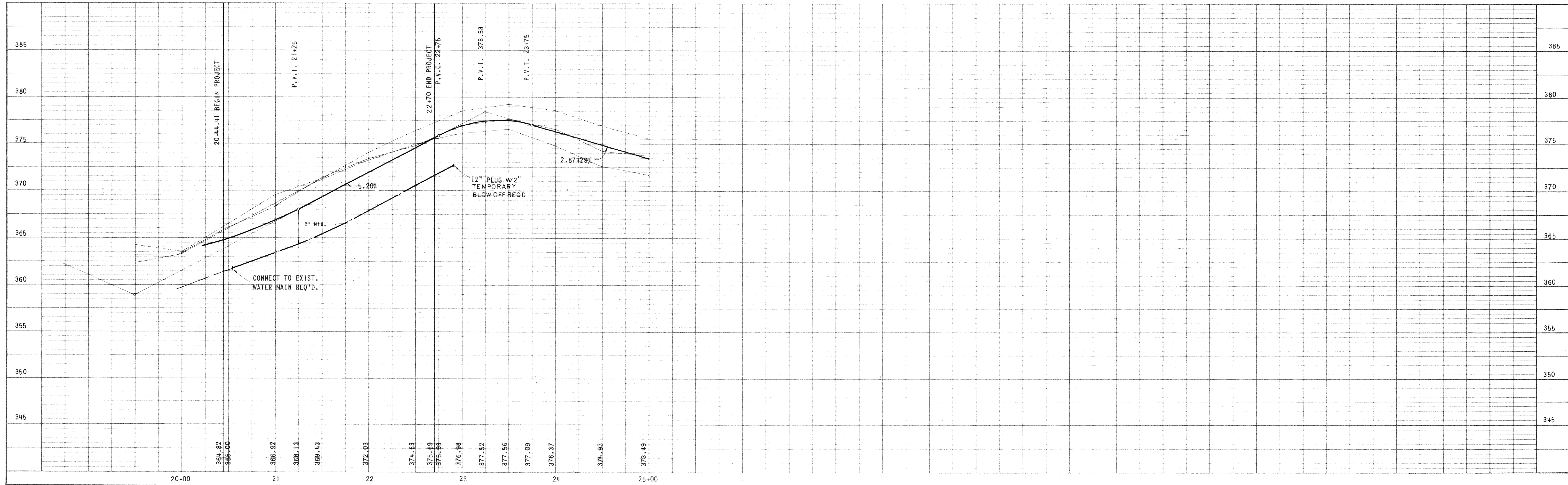
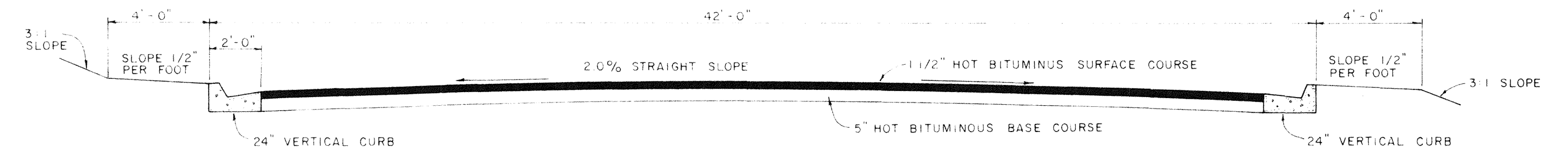
APPROVED  
MAY 07 1986  
PUBLIC WORKS  
CITY OF JACKSON

QM-1613 (5)

BENCH MARK ELEV. 366.09 M.S.L.  
60D NAIL IN 24" RED OAK  
+ 50' LT. OF STA. 18+36  
MARKETRIDGE DRIVE

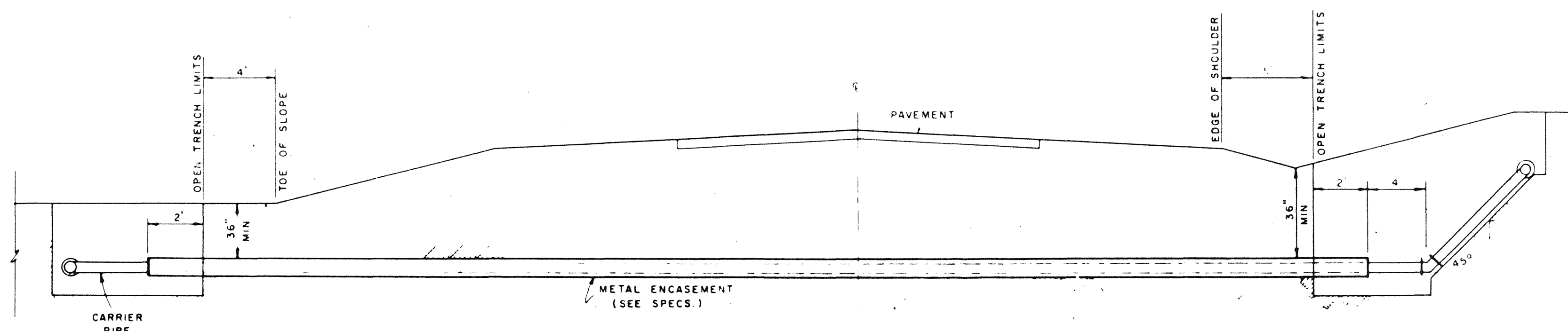


BLOW OFF ASSEMBLY



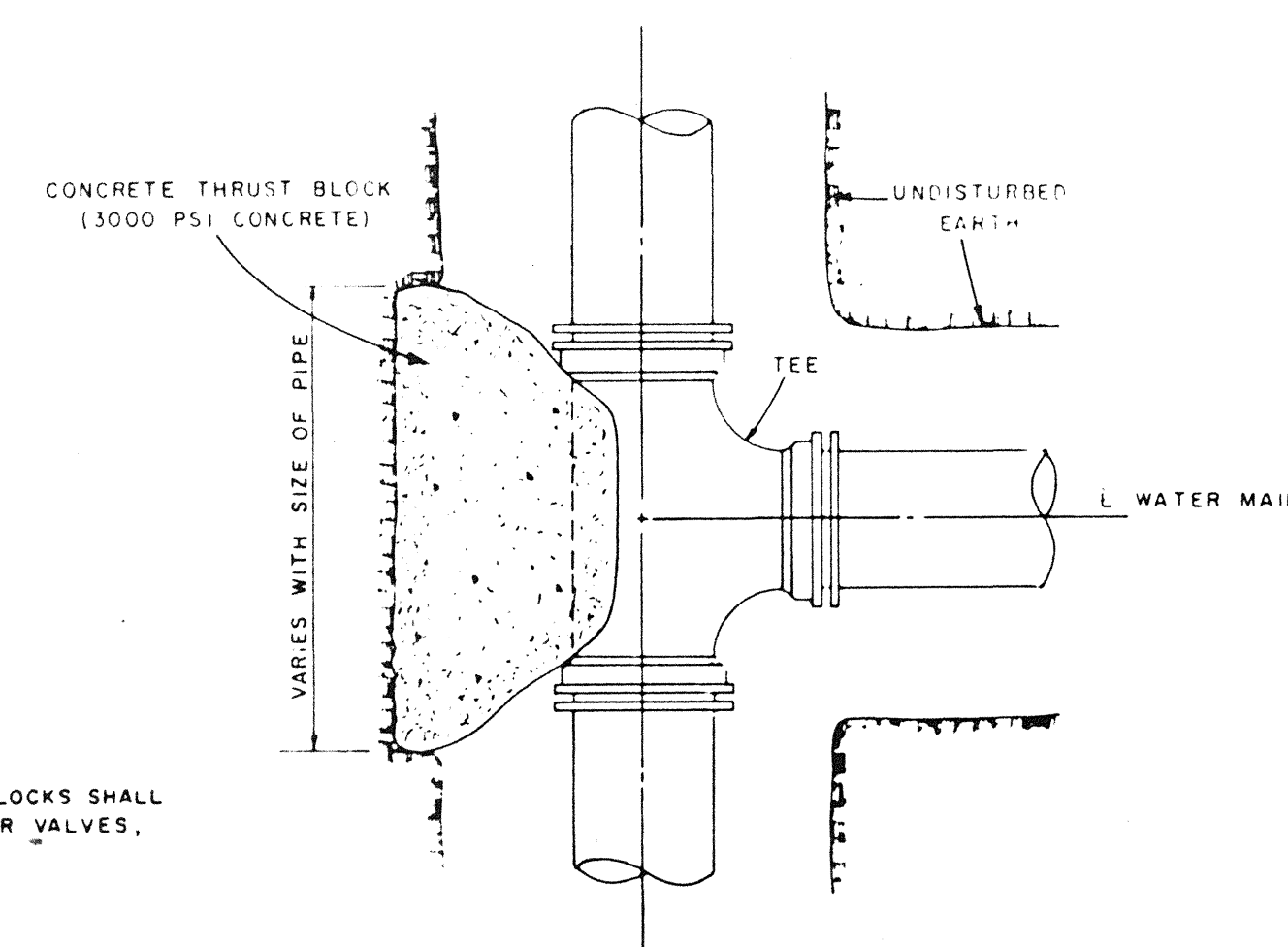
DESIGNED J.L.J.		DATE APRIL 86				<b>UNDERWOOD DEVELOPMENT COMPANY</b>						<b>PLAN &amp; PROFILE</b>		PROJECT NO. <b>535</b>	
DRAWN M.C.		SCALE 1" = 50'													
NO.		DATE		NATURE OF REVISIONS		BY		APP'D		FOR NO.		72009		JACKSON / PEARL, MISSISSIPPI	



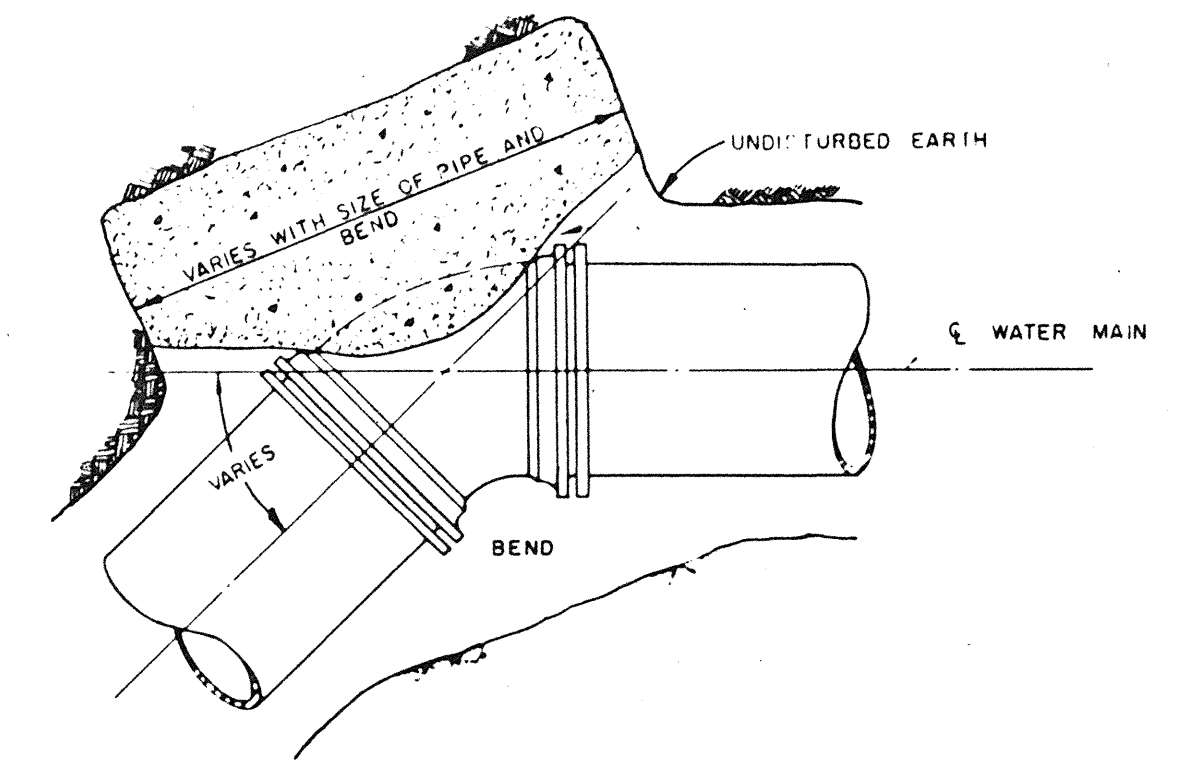


TYPICAL CASED CROSSING

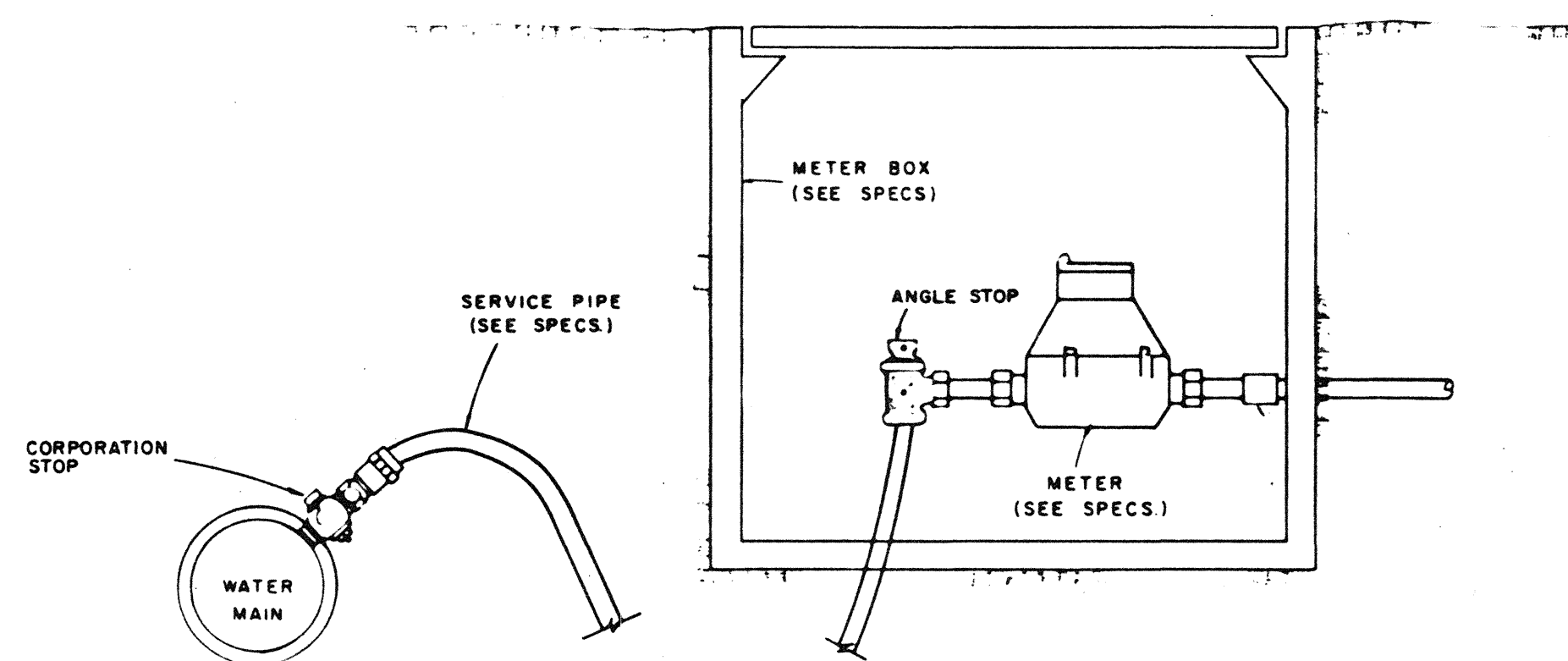
NOTE COMPENSATION FOR CONCRETE THRUST BLOCKS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.



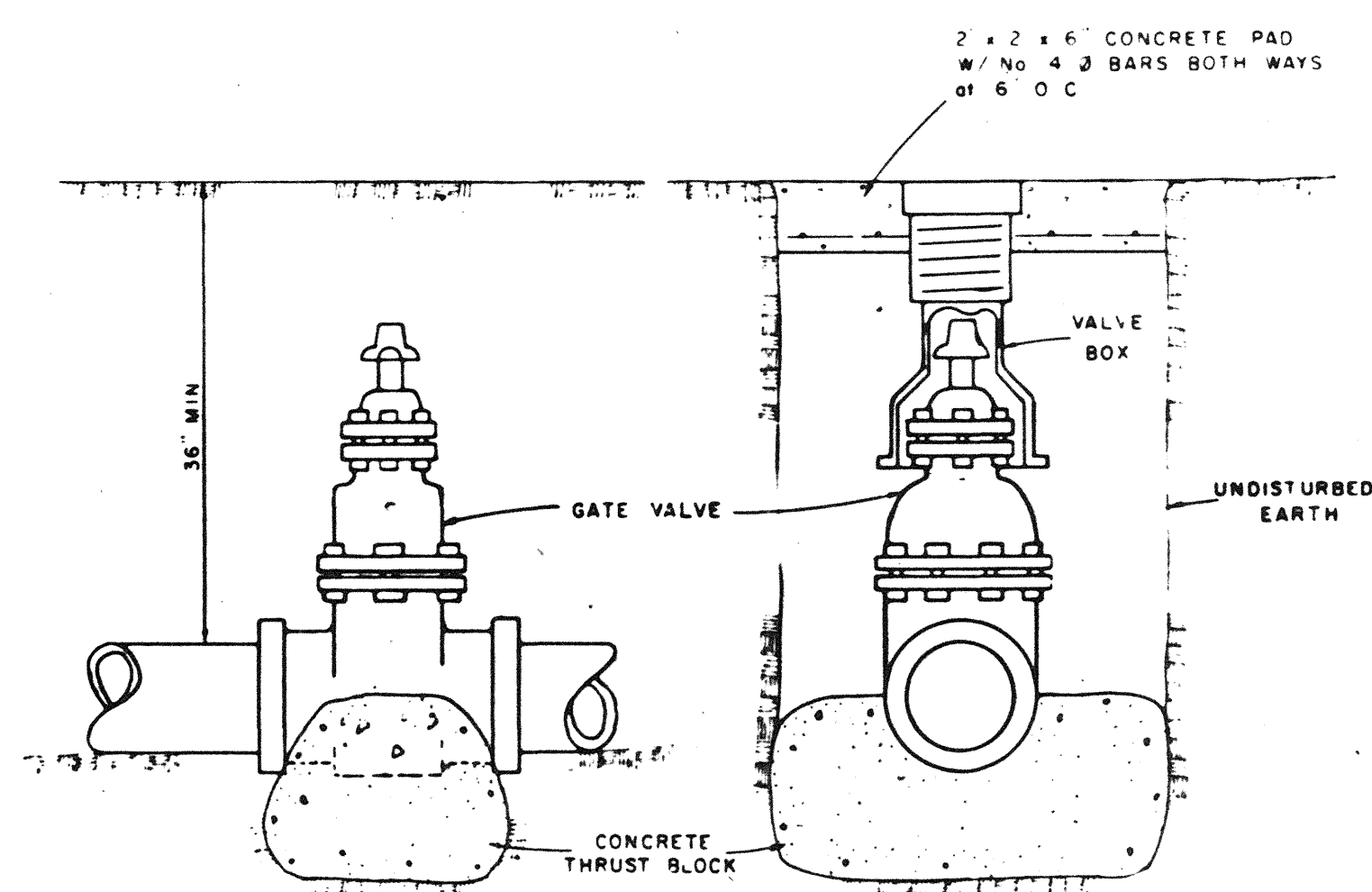
PLAN



PLAN



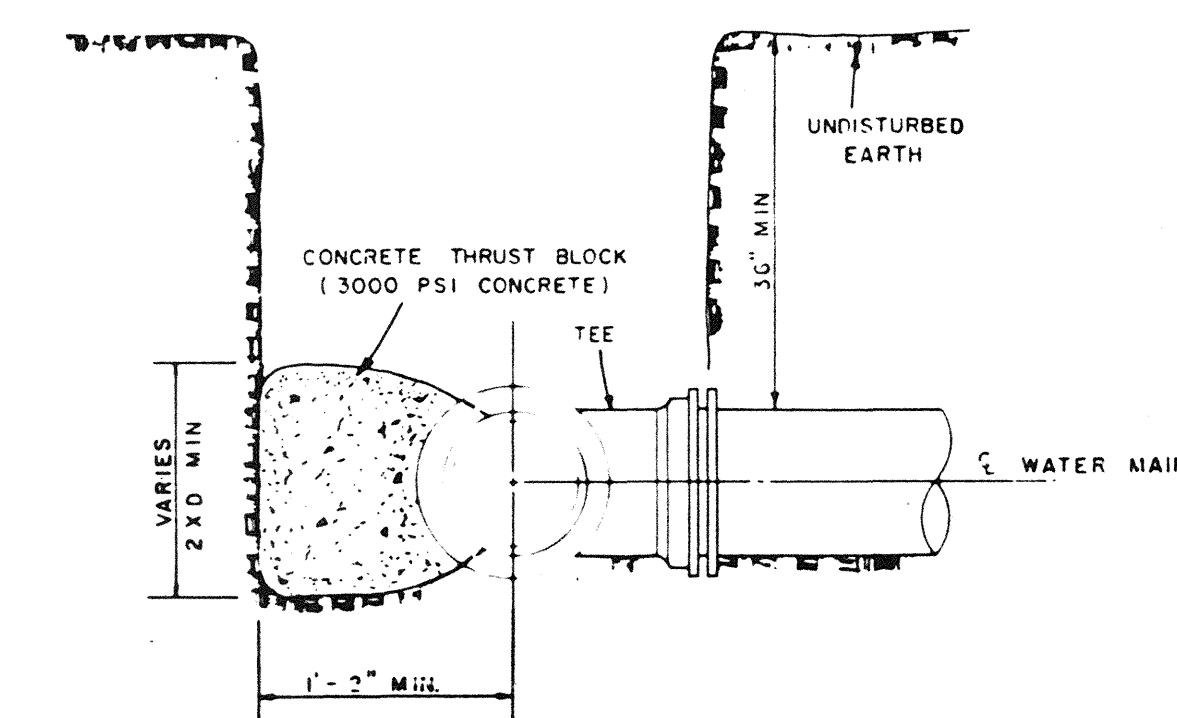
TYPICAL SERVICE ASSEMBLY



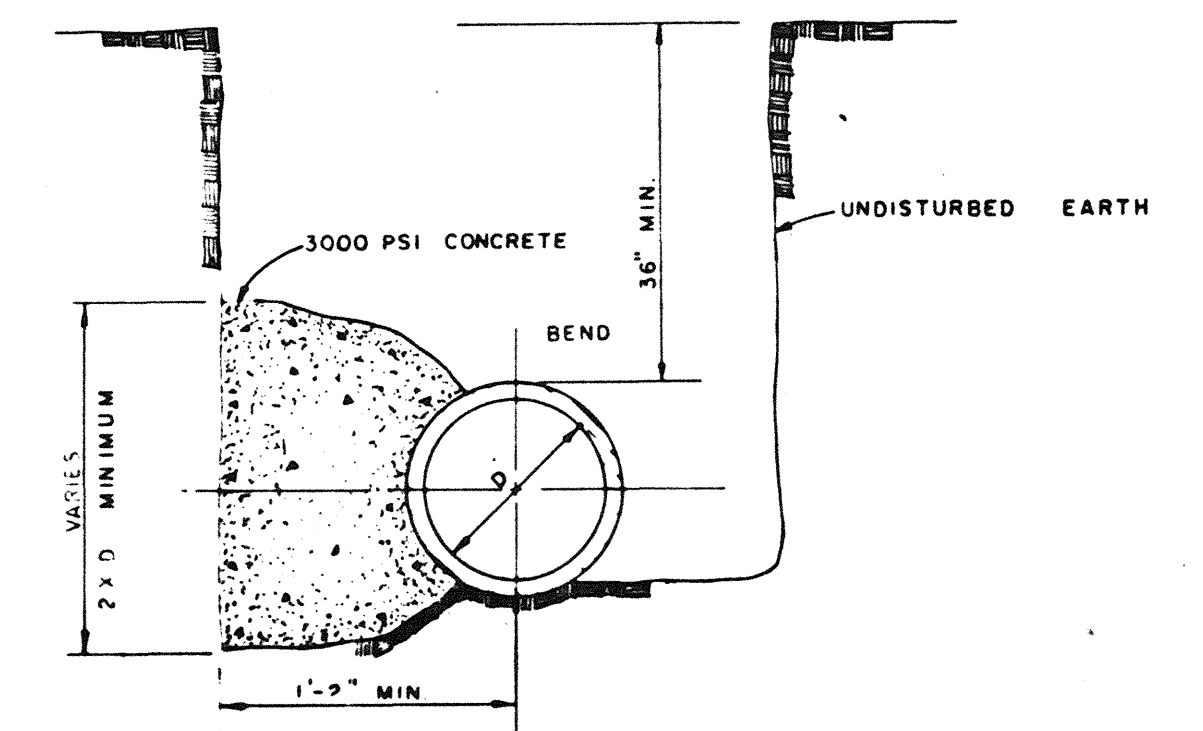
ELEVATION

SECTION

TYPICAL VALVE & BOX

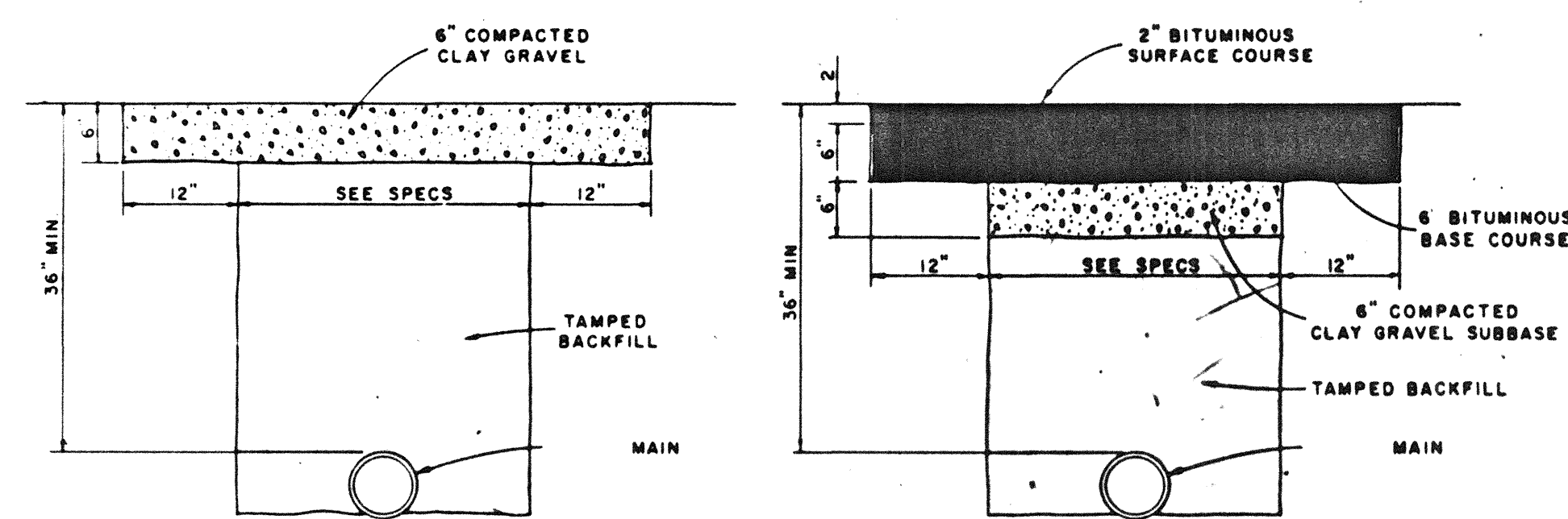


SECTION

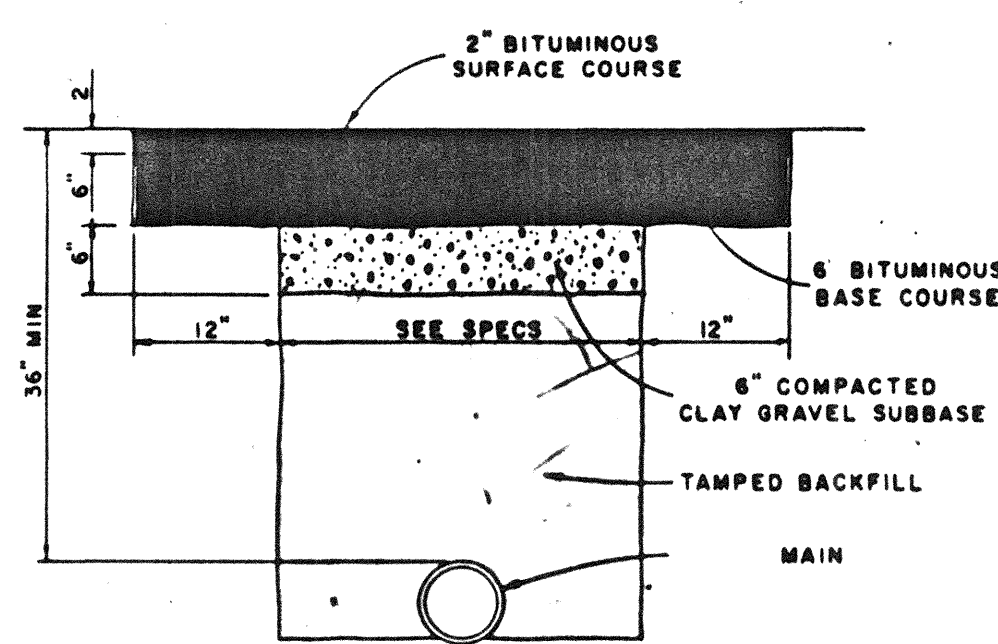


SECTION

BLOCKING DETAILS FOR TEES & BENDS

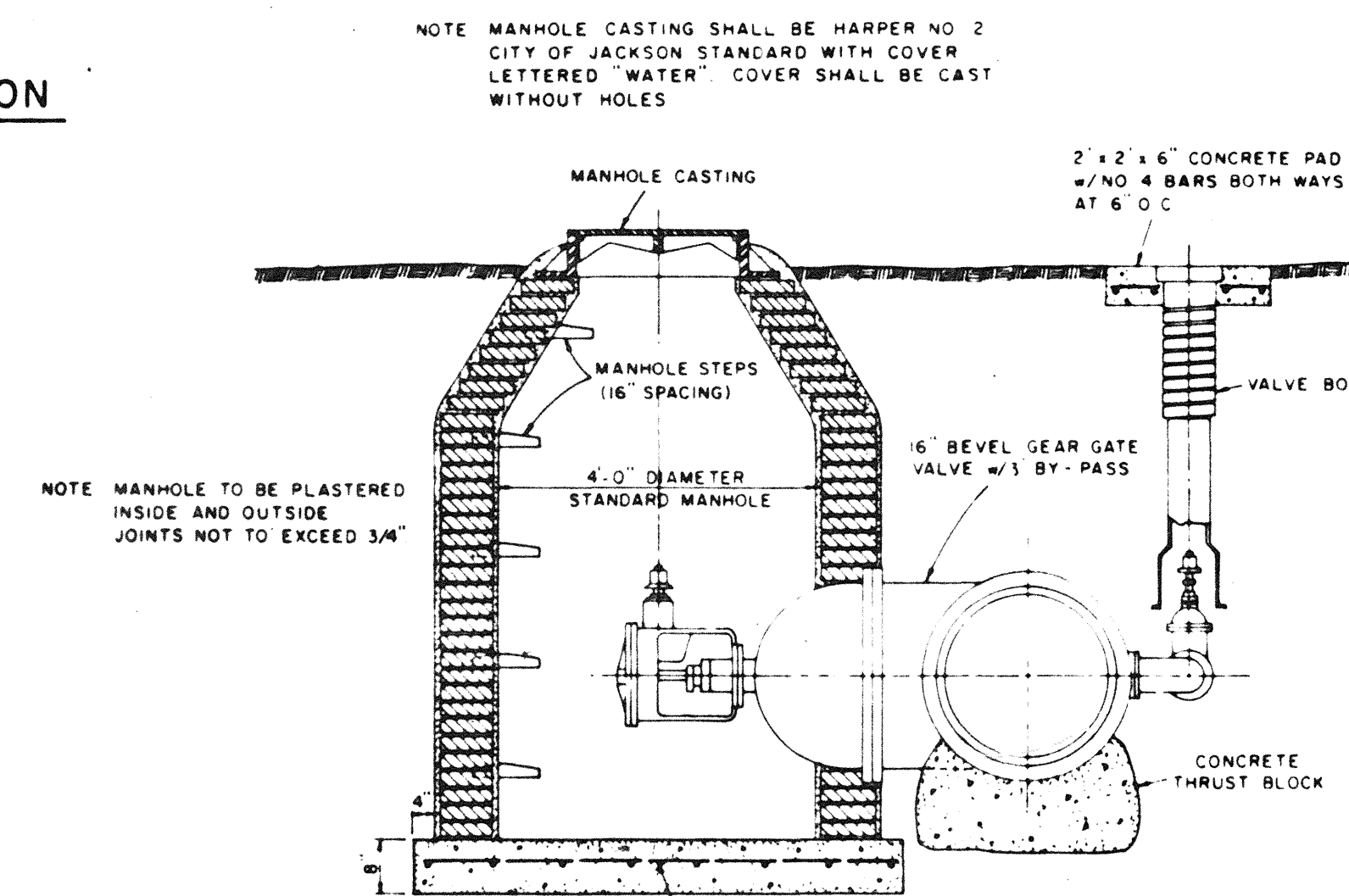


GRAVEL OR TEMPORARY SURFACE

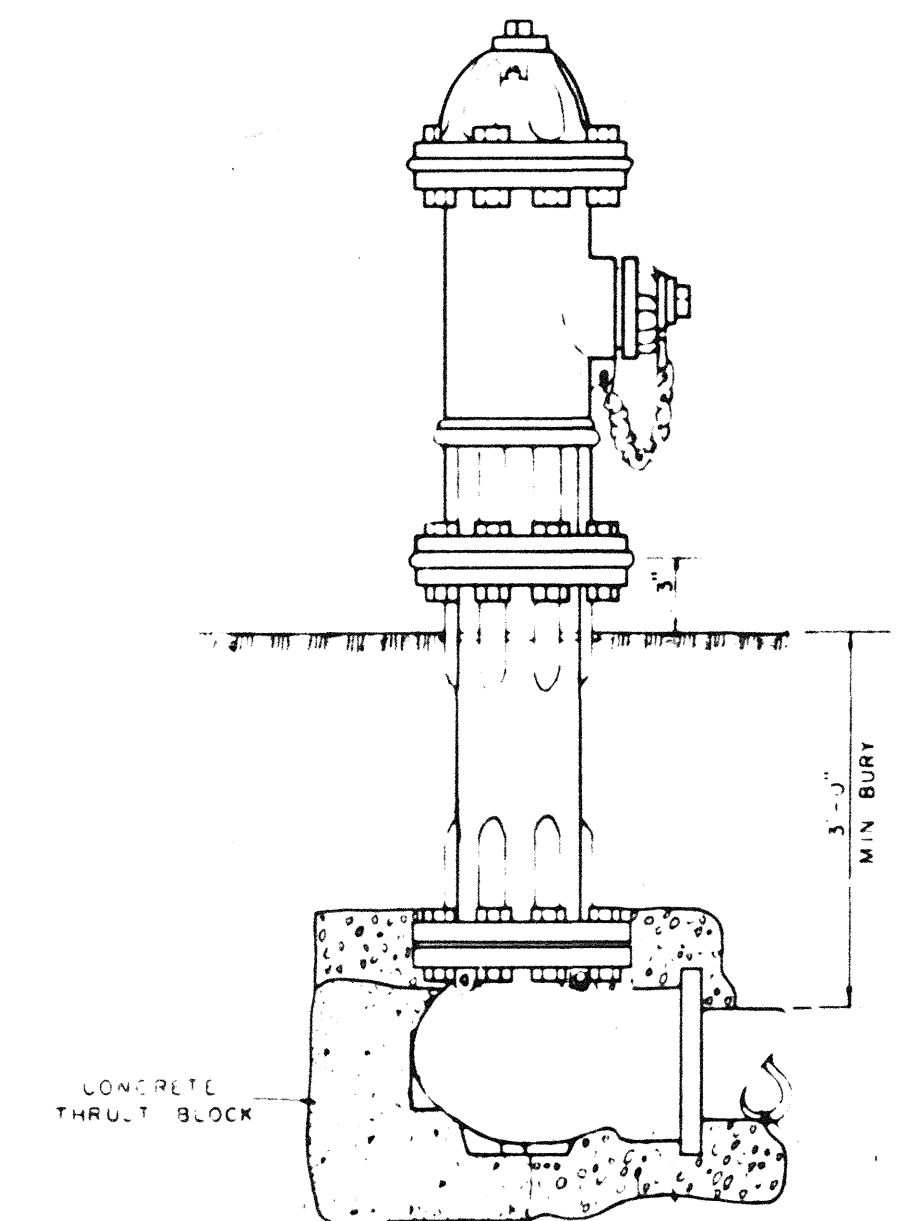


PERMANENT ASPHALT SURFACE

TYPICAL TRENCH SECTIONS  
ACROSS IMPROVED SURFACE AREAS



SECTION  
16" GATE VALVE INSTALLATION



TYPICAL FIRE HYDRANT

		DESIGNED BY J L J	DATE			<b>UNDERWOOD DEVELOPMENT COMPANY</b>				<b>CONSTRUCTION DETAILS</b>		PROJECT NO 535
		DRAWN BY D B	SCALE N T S									CONTRACT SHEET W-1
NO	DATE	NATURE	BY	APP'D	CHECKED BY J L J	FILE NO	<b>ENGINEERING ASSOCIATES, INC. - CONSULTING ENGINEERS</b> JACKSON, MISSISSIPPI		<b>WATER SYSTEM IMPROVEMENTS</b>			