

MANATEE COUNTY, FLA

WATER WORKS PROJECT

SECTION V

DISTRIBUTION SYSTEMS & TRANSMISSION MAIN

RUSSELL & AXON

CONSULTING ENGINEERS INCORPORATED

DAYTONA BEACH, FLA

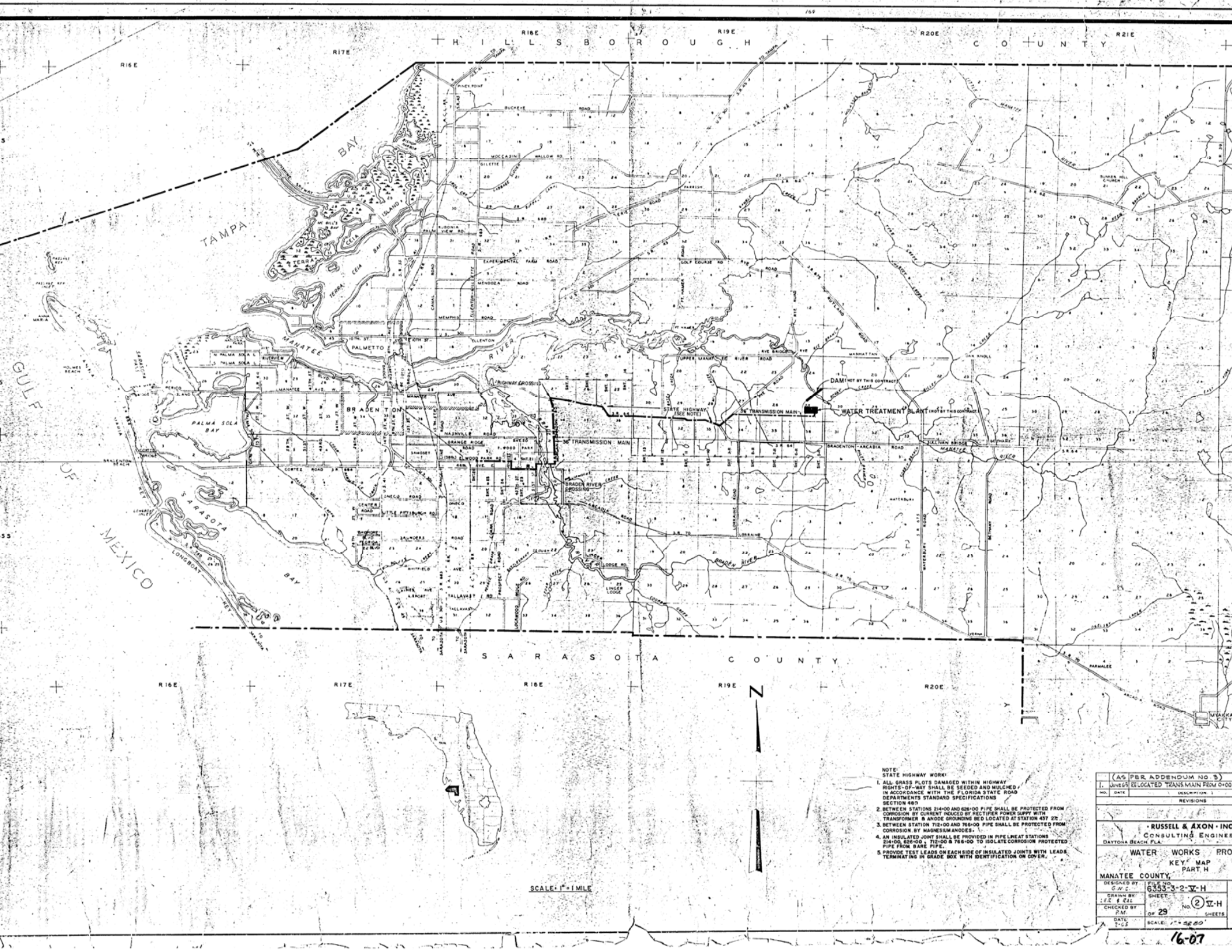
ST. LOUIS, MO

TRANSMISSION MAIN PART "H"

INDEX

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	TITLE & INDEX	16	TRANS. MAIN 367+50 - 402+00
2	KEY MAP (REVISED)	17	TRANS. MAIN 402+00 - 436+50
3	TRANS. MAIN DELETED	18	" " 436+50 - 468+50
4	TRANS. MAIN DELETED	19	" " 468+50 - 503+00
5-R	" " 1+86 - 27+00 (REROUTED)	20	" " 503+00 - 537+50
6-R	" " 27+00 - 61+00 (REROUTED)	21	" " 537+50 - 611+00 (REROUTED)
7-R	" " 61+00 - 95+00 (REROUTED)	22	" " 611+00 - 655+50
8-R	" " 95+00 - 128+00 (REROUTED)	23	" " 655+50 - 690+00
9-R	" " 128+00 - 166+00 (REROUTED)	24	" " 690+00 - 724+50
10	" " 166+00 - 199+00 (REVISED)	25	" " 724+50 - 759+00 (REVISED)
11	" " 199+00 - 233+00	26	" " 759+00 - 764+75 (REVISED)
12	" " 233+00 - 267+00	27	STANDARDS & MISC. DETAILS
13	" " 267+00 - 301+00	28	RIVER & CANAL CROSSING DETAILS (MECH) DELETED
14	" " 301+00 - 336+00	29	RIVER & CANAL CROSSING DETAILS (STRUCT) DELETED
15	" " 336+00 - 367+50		

REVISION 2-
23 FEB 1963
MANATEE COUNTY
FLORIDA
STATE
ENGINEER
16-6



- NOTE:
STATE HIGHWAY WORK:
1. ALL GRASS PLOTS DAMAGED WITHIN HIGHWAY RIGHTS-OF-WAY SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE FLORIDA STATE ROAD DEPARTMENTS STANDARD SPECIFICATIONS SECTION 402.
 2. BETWEEN STATIONS 214+00 AND 626+00 PIPE SHALL BE PROTECTED FROM CORROSION BY CURRENT INDUCED BY RECTIFIER POWER SUPPLY WITH TRANSFORMERS & ANODES SHOWINGS BE LOCATED AT STATION 457+22.
 3. BETWEEN STATION 712+00 AND 766+00 PIPE SHALL BE PROTECTED FROM CORROSION BY MAGNESIUM ANODES.
 4. AN INSULATED JOINT SHALL BE PROVIDED IN PIPE LINE AT STATIONS 214+00, 626+00, 712+00 & 766+00 TO ISOLATE CORROSION PROTECTED PIPE FROM BARE PIPE.
 5. PROVIDE TEST LEADS ON EACH SIDE OF INSULATED JOINTS WITH LEADS TERMINATING IN GRADE BOX WITH IDENTIFICATION ON COVER.

SCALE: 1"=1 MILE

(AS PER APPENDUM NO. 3)
 1. MANATEE DELEGATED TRANSMISSION FROM 0000
 2. DATE: _____

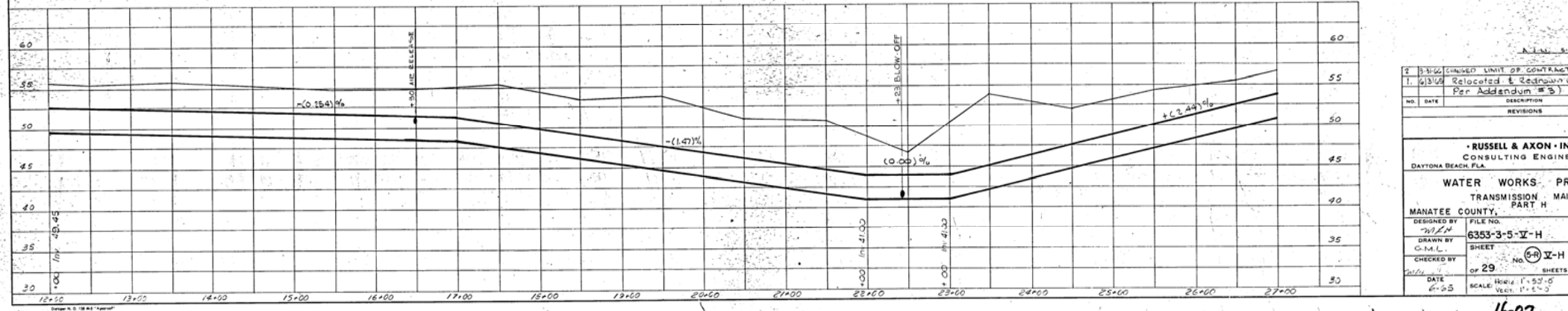
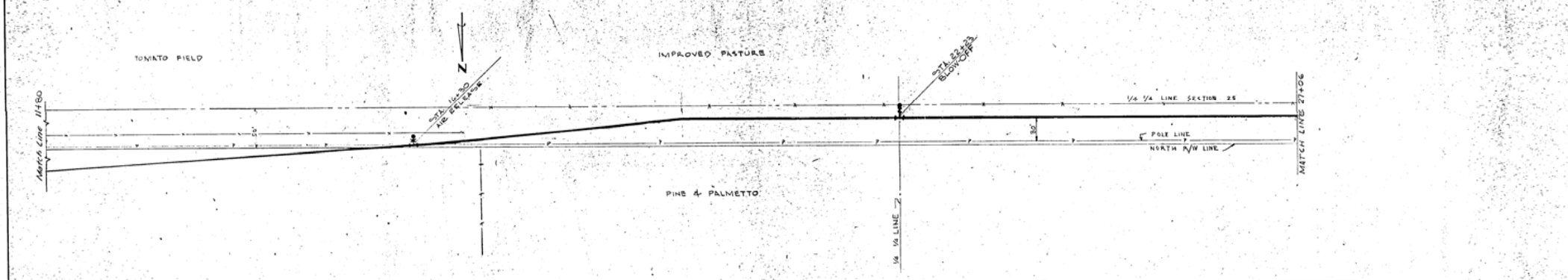
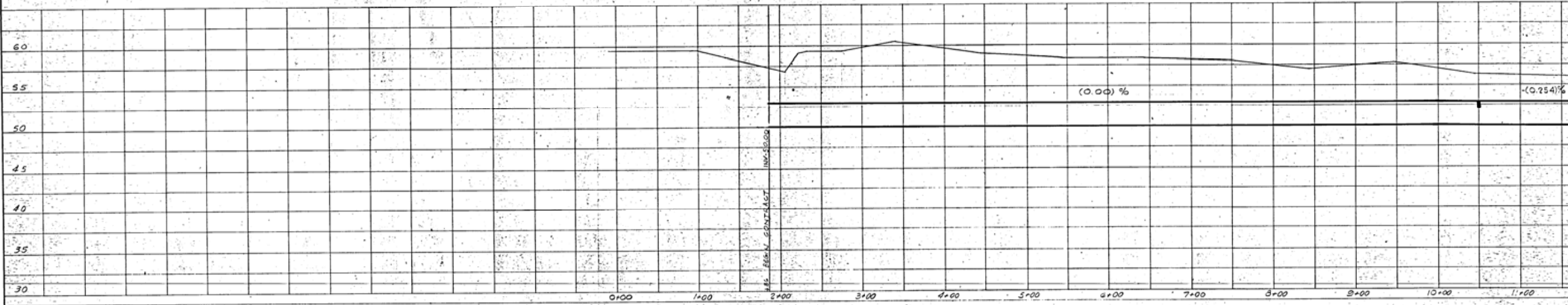
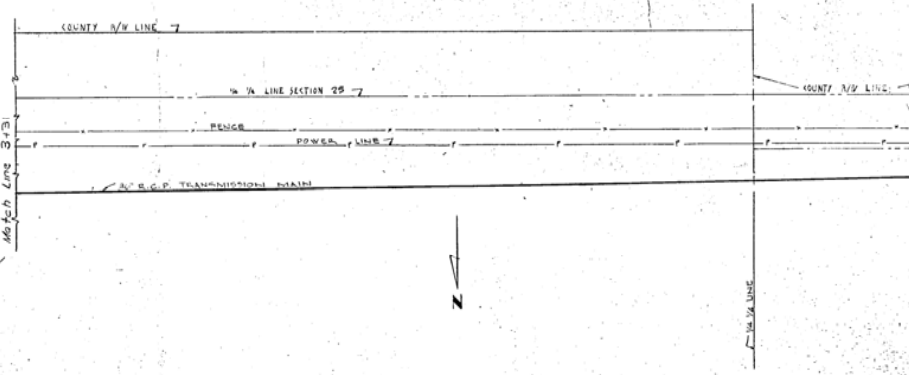
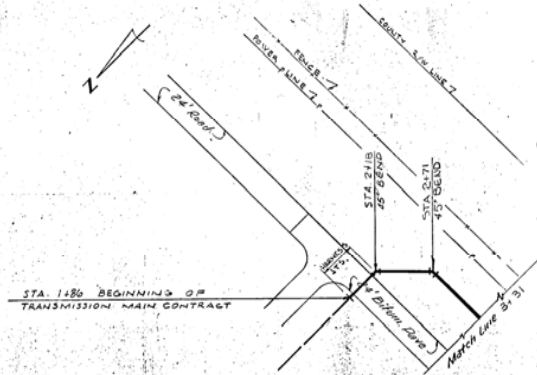
REVISIONS

RUSSELL & AXON, INC.
 CONSULTING ENGINEERS
 DAYTONA BEACH, FLA.

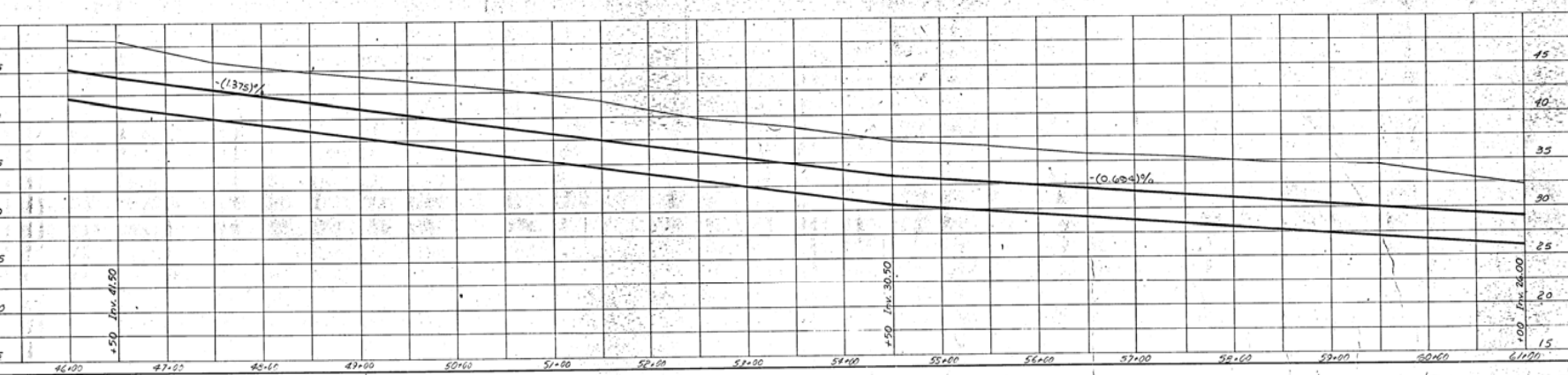
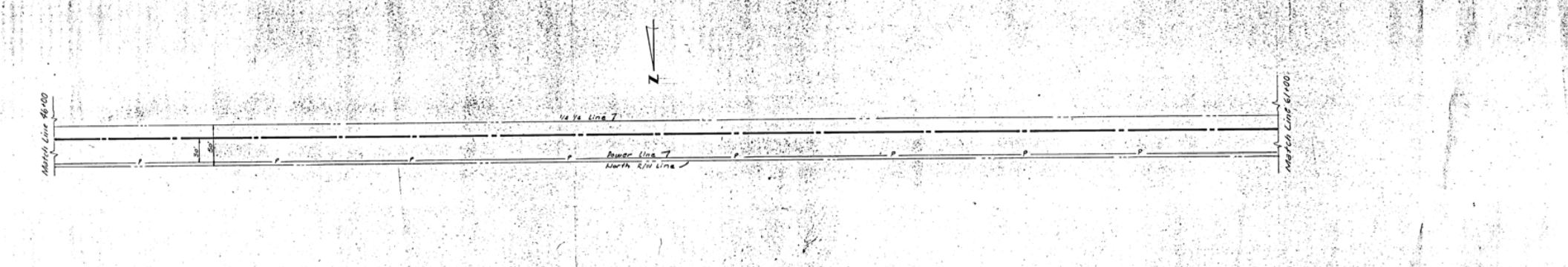
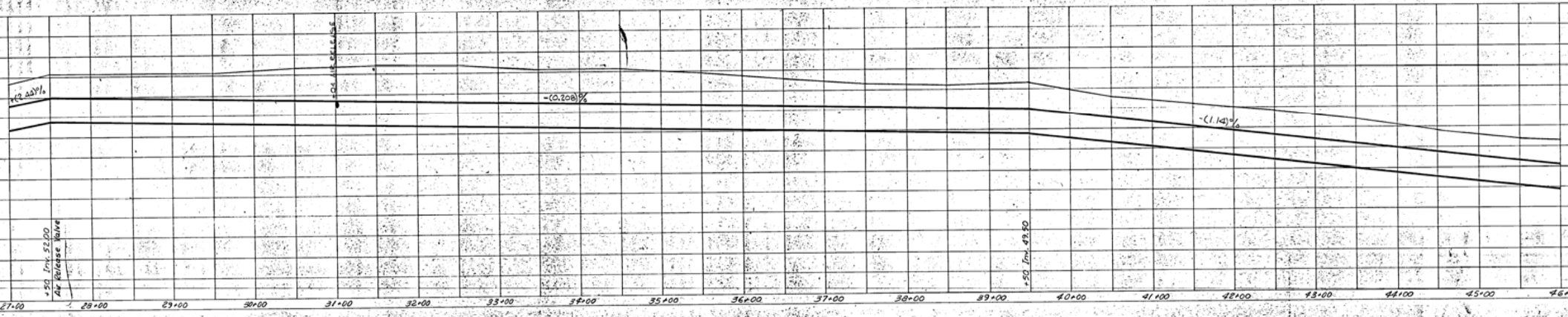
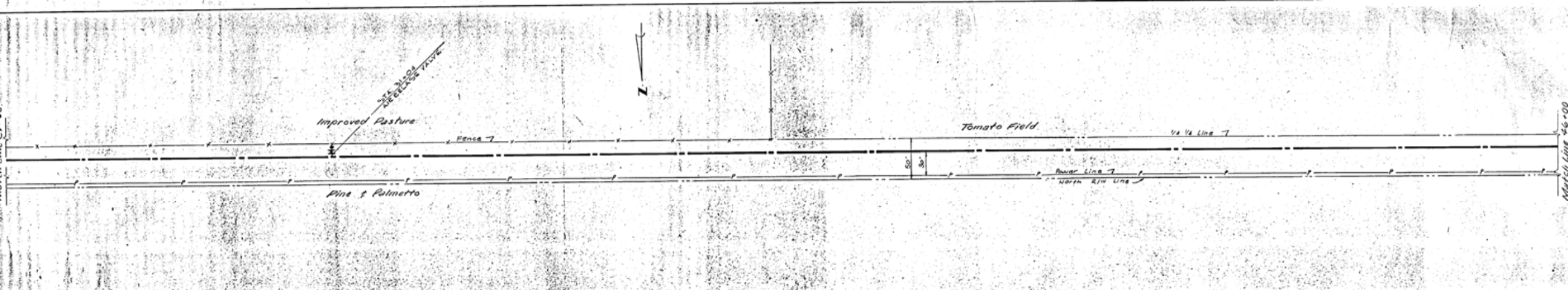
WATER WORKS PROJECT
 KEY MAP
 PART H

MANATEE COUNTY

DESIGNED BY G.W.C.	FILE NO. 6353-3-2-W-H
DRAWN BY L.E. & R.L.	SHEET No. 2
CHECKED BY P.M.	OF 29 SHEETS
DATE 7-05	SCALE: 1"=2200'



2	5/16/66	CHANGED LIMIT OF CONTRACT	
1	4/3/68	Relocated & Redrawn (Per Addendum #3)	
NO.	DATE	DESCRIPTION	REVISIONS
RUSSELL & AXON • INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.			
WATER WORKS PROJECT TRANSMISSION MAIN MANATEE COUNTY, PART H			
DESIGNED BY	FILE NO.		
DRAWN BY	6353-3-5-V-H		
CHECKED BY	SHEET		
DATE	OF 29		
	No. 5-R		
	OF SHEETS		
	SCALE: Horiz. 1"=50'-0"		
	VERT. 1"=10'-0"		

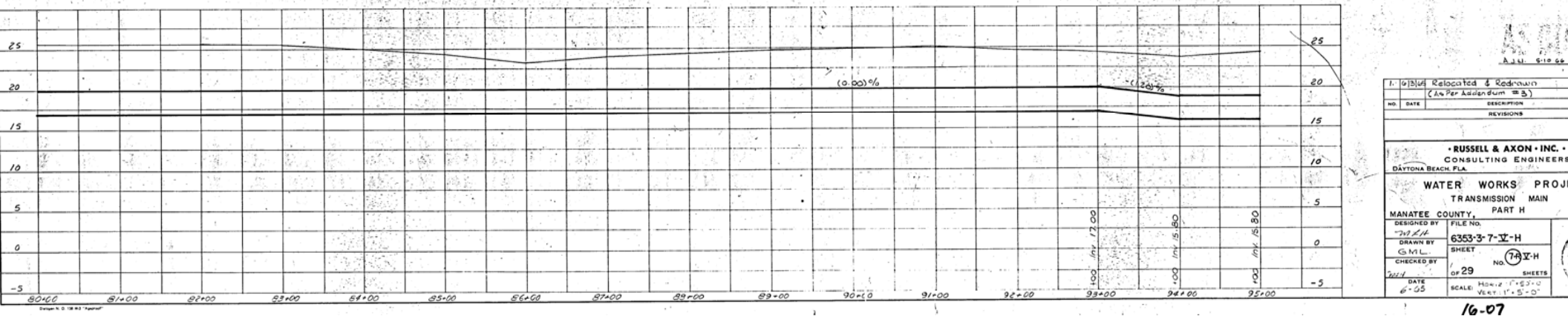
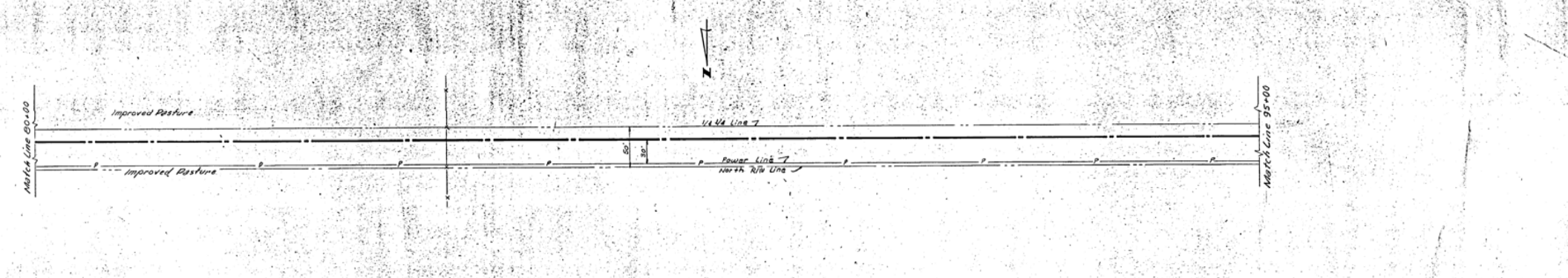
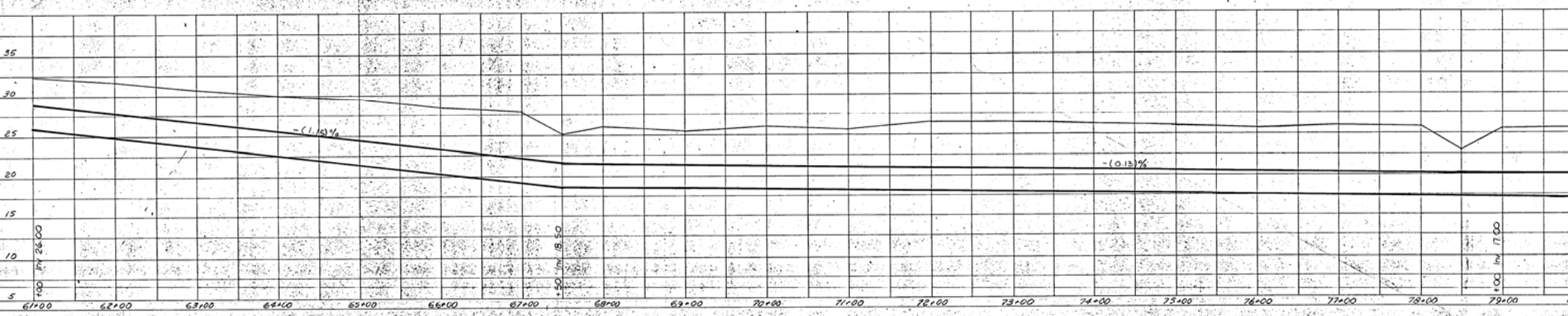
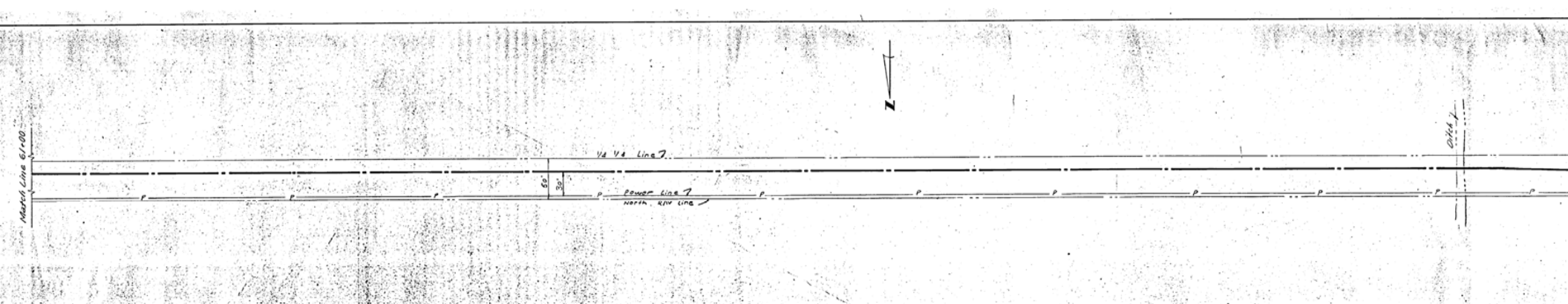


NO.		DATE	DESCRIPTION
REVISIONS			

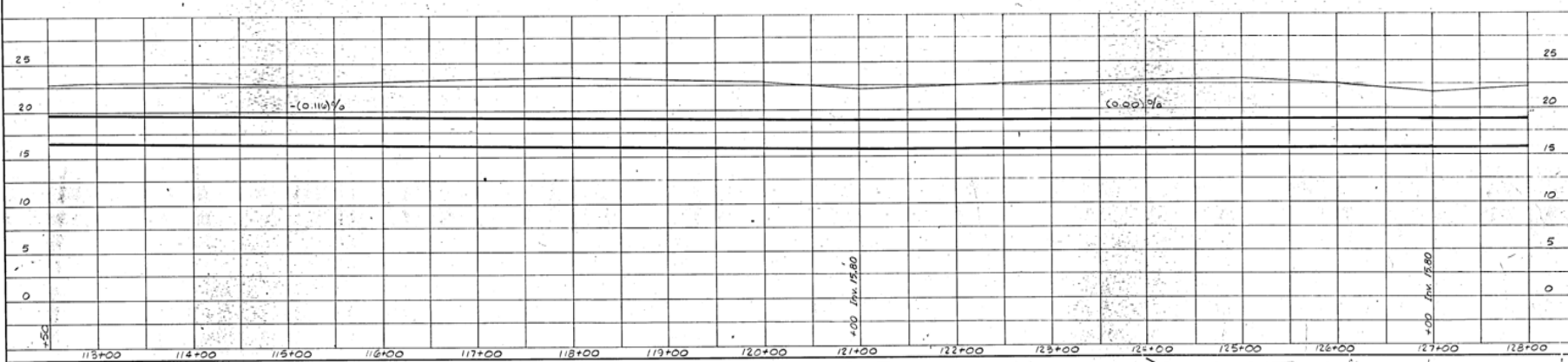
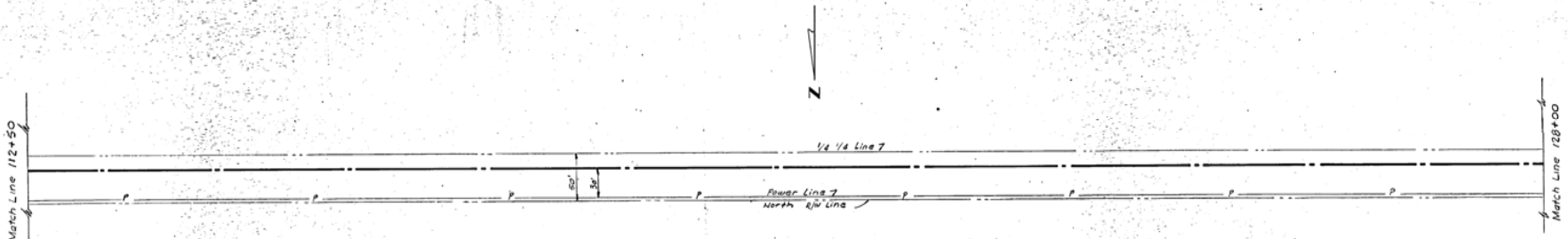
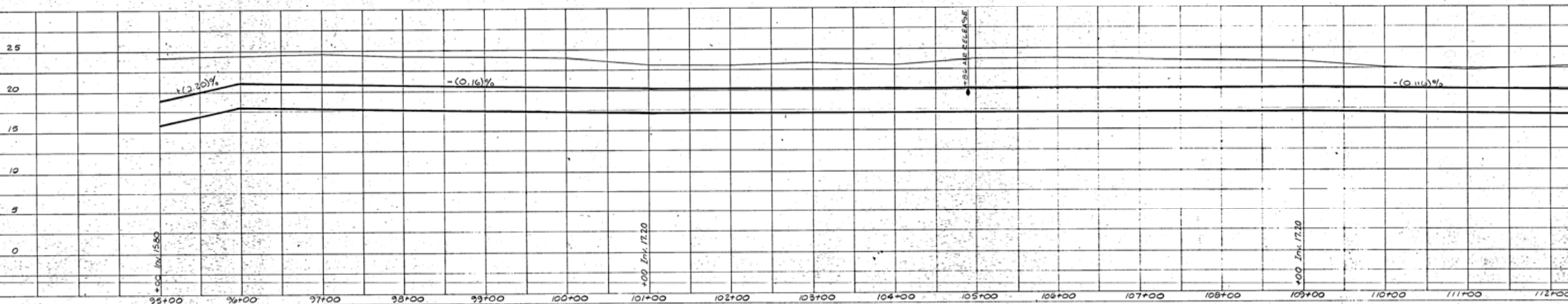
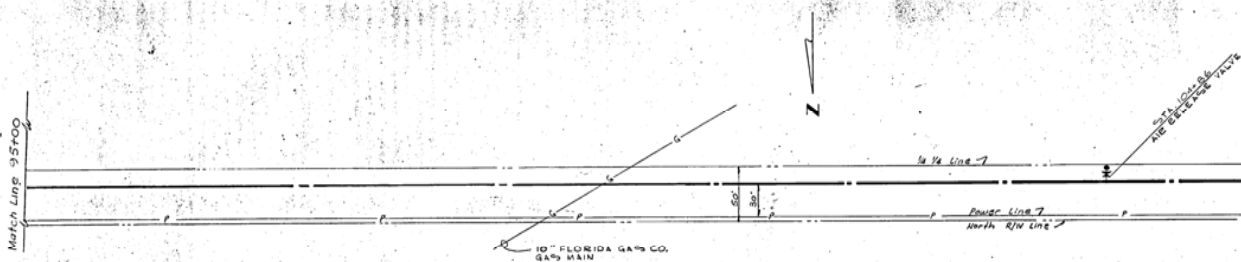
DESIGNED BY		FILE NO.
DRAWN BY		6353-3-6-X-H
CHECKED BY		SHEET
DATE		6-65

PROJECT	
TRANSMISSION MAIN	T
MANATEE COUNTY, PART H	FL
OF 29 SHEETS	SE

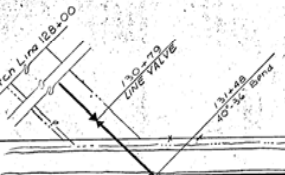
SCALE	1" = 50'-0"
DATE	6-65



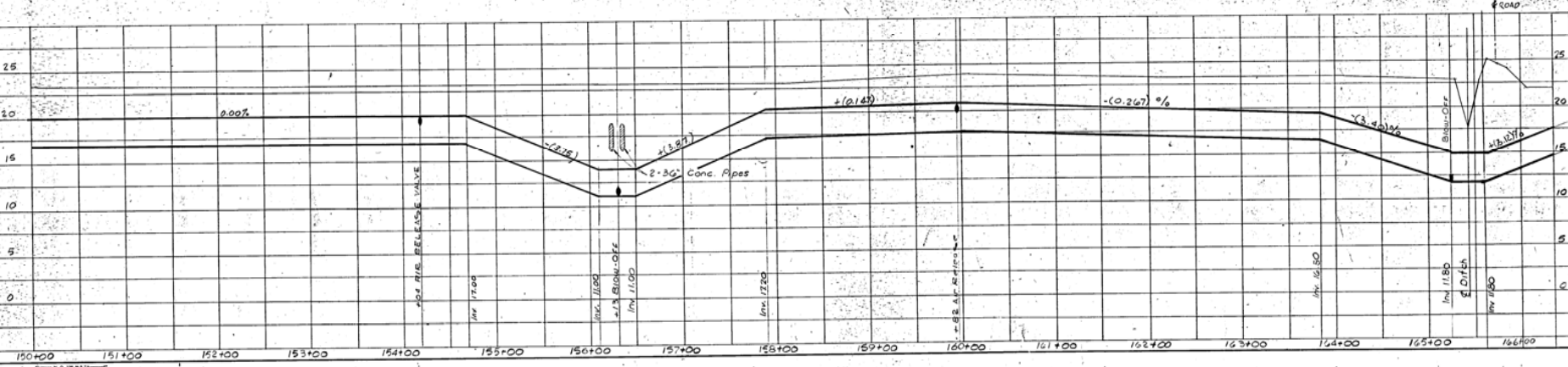
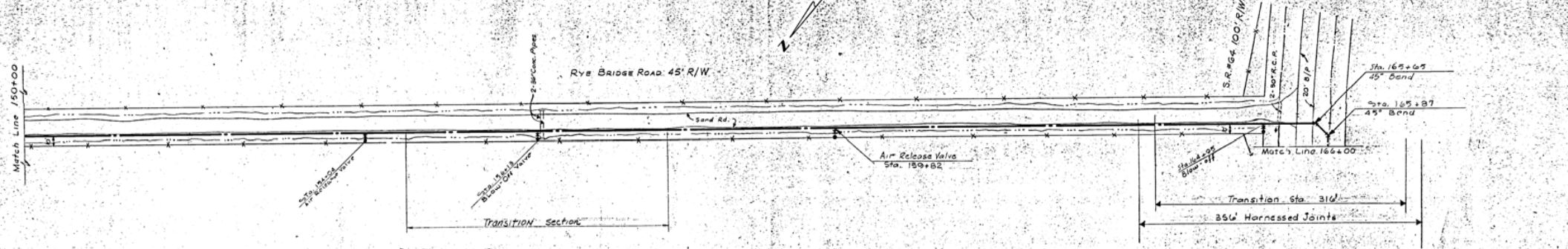
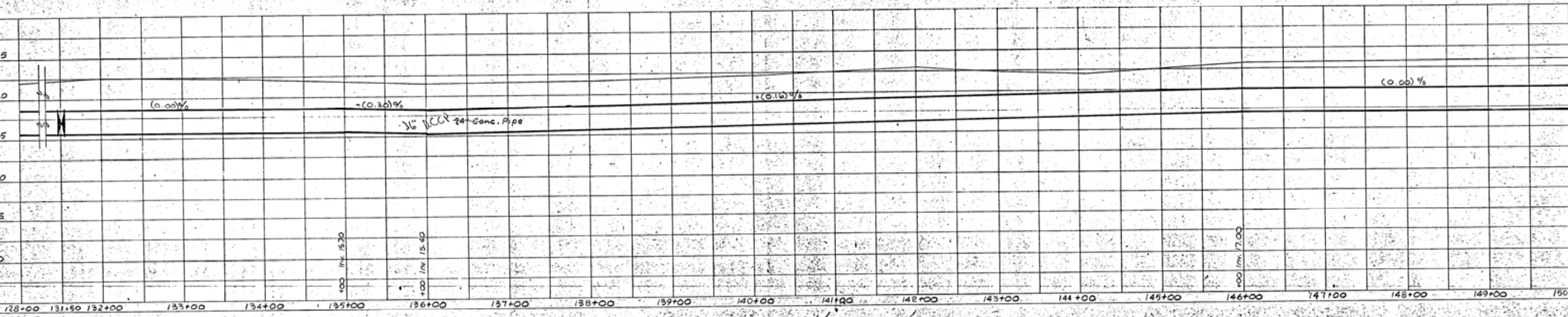
1. 10/21/07 Relocated & Redrawn (As Per Addendum #3)	
NO.	DATE
REVISIONS	
RUSSELL & AXON • INC. • CONSULTING ENGINEERS DAYTONA BEACH, FLA.	
WATER WORKS PROJ TRANSMISSION MAIN MANATEE COUNTY, PART H	
DESIGNED BY	FILE NO.
DRAWN BY	6353-3-7-V-H
CHECKED BY	SHEET
DATE	NO. 78-V-H
6-25	OF 29 SHEETS
SCALE: HORIZ. 1"=50'-0"	VERT. 1"=5'-0"



(AS PER ADEQUUM NO. 8)	
1. 6-2-69	RELOCATED & REDRAWN
NO. DATE	REVISIONS
• RUSSELL & AXON • INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.	
WATER WORKS PROJ TRANSMISSION MAIN PART H MANATEE COUNTY,	
DESIGNED BY	FILE NO.
R.C.T.	6353-3-8-Y-H
DRAWN BY	SHEET
2/2/87	29
CHECKED BY	NO. OF SHEETS
DATE	SCALE: 1" = 5' Vert.
6-65	



RYE BRIDGE ROAD 45' R/W



2 1/2\"/>

RUSSELL & AXON, INC.
 CONSULTING ENGINEERS
 DAYTONA BEACH, FLA.

WATER WORKS PROJECT
 TRANSMISSION MAIN
 PART H

MANATEE COUNTY, FLA.

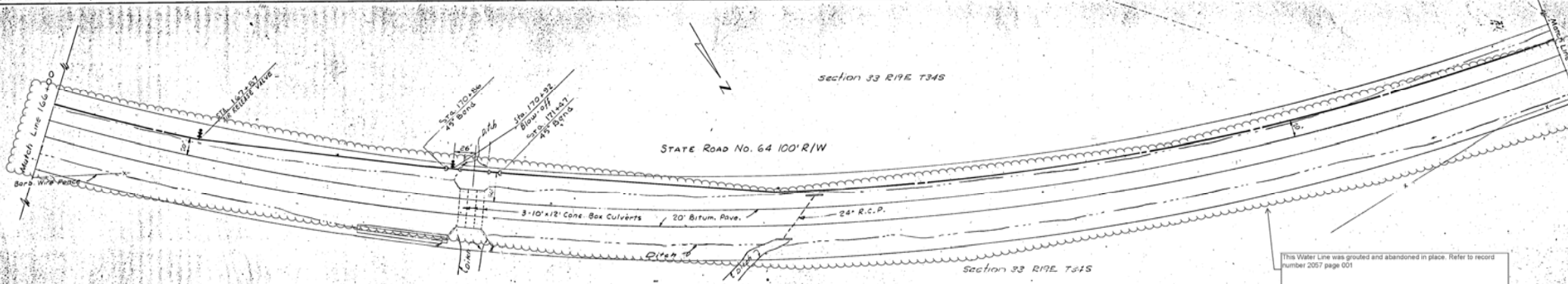
DESIGNED BY: *[Signature]*
 R.C.T.

DRAWN BY: *[Signature]*
 S.H.

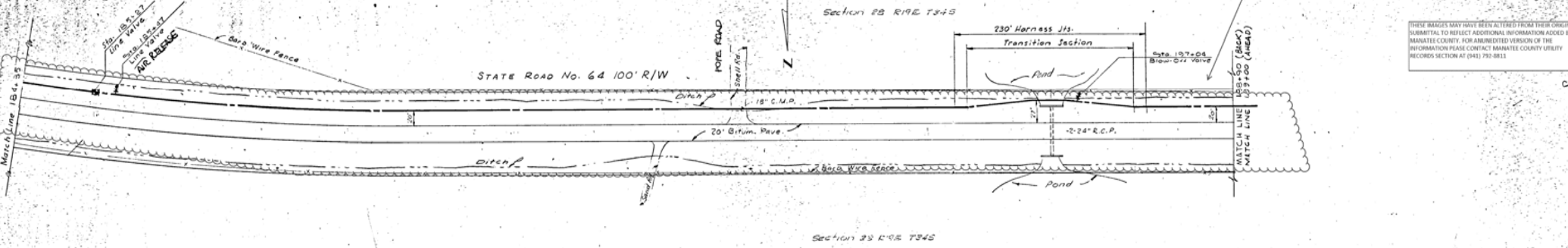
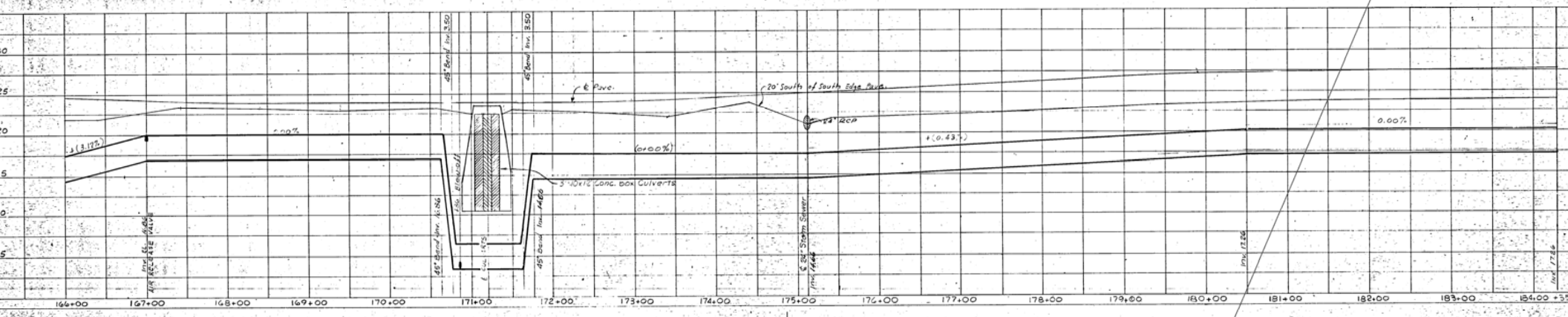
CHECKED BY: *[Signature]*
 S.H.

DATE: 6-65

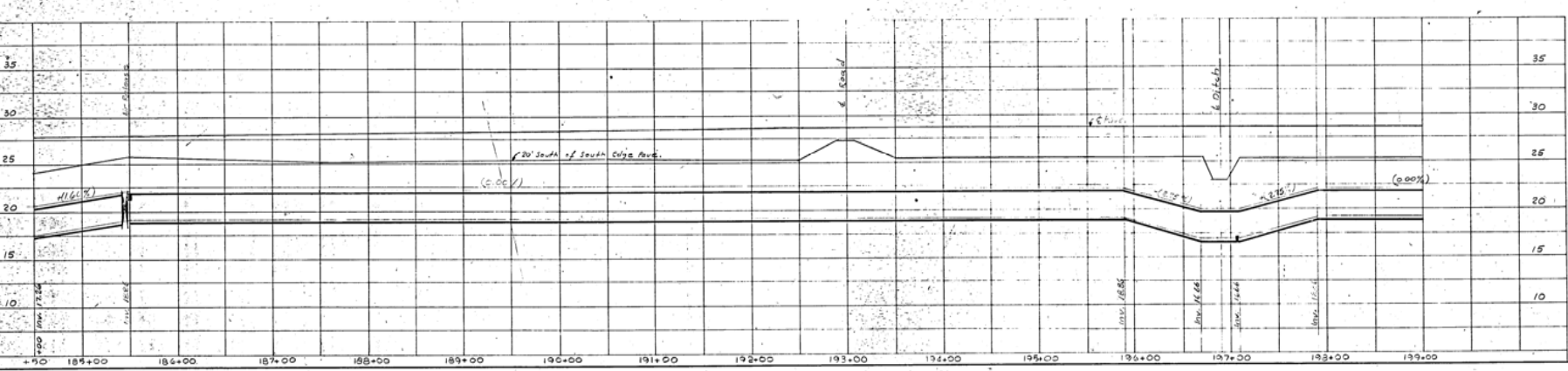
FILE NO.: 6353-3-9-V-H
 SHEET: 9 of 29
 SCALE: 1" = 20' HOR. I.
 1" = 5' VERT.



This Water Line was grouted and abandoned in place. Refer to record number 2057 page 001



THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY. FOR AN UNREDACTED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 792-8811



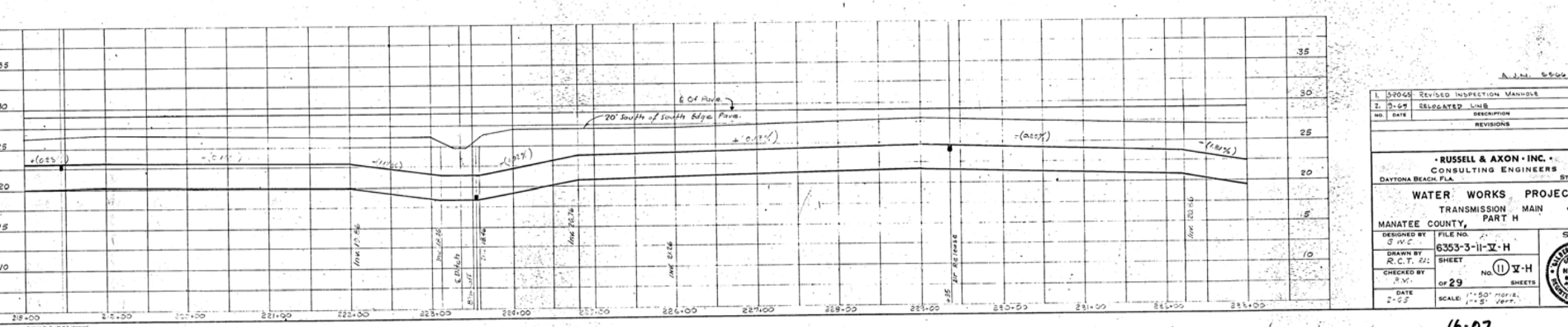
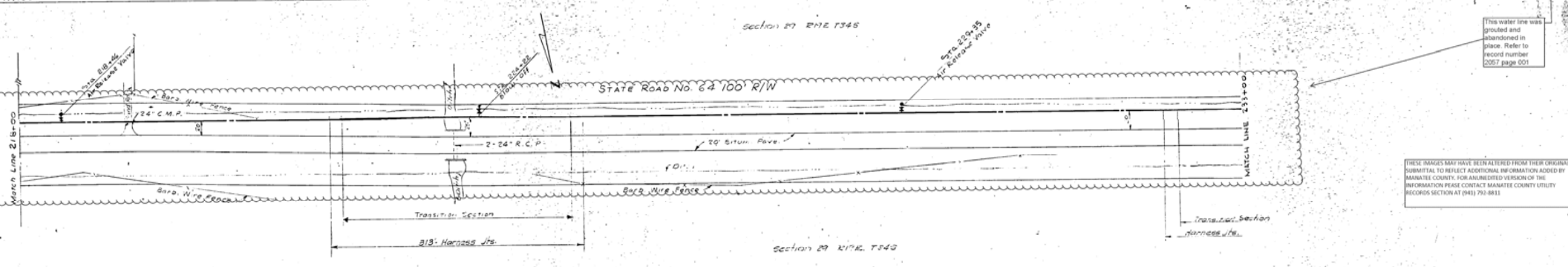
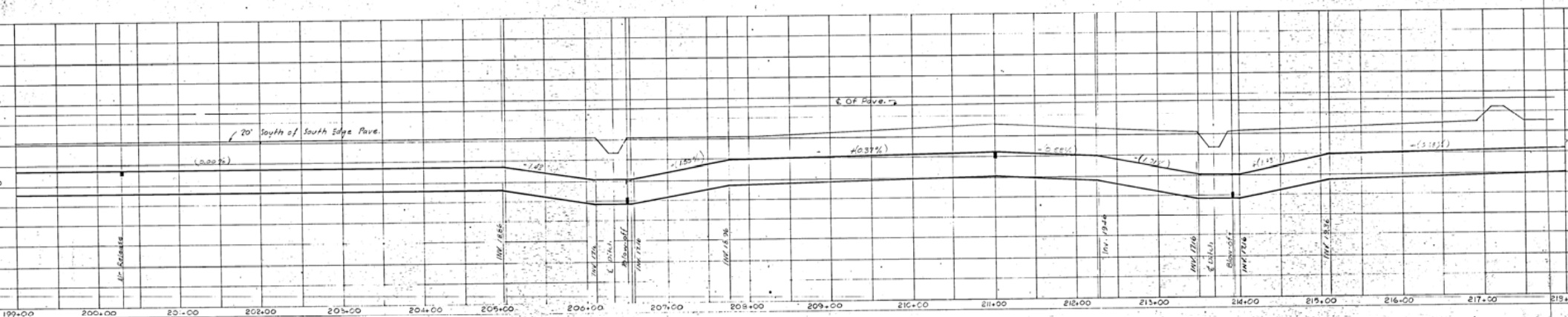
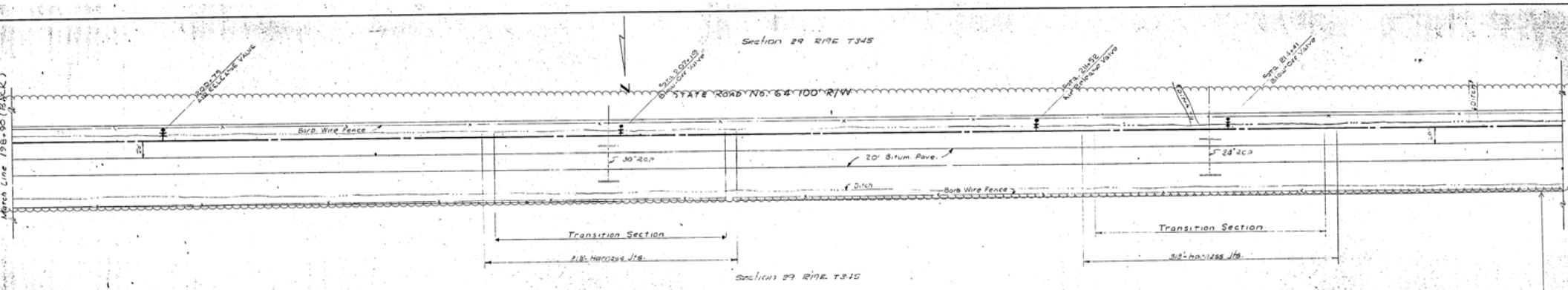
Note (As Per Addendum #2)

NO.	DATE	DESCRIPTION	REVISIONS
1	5-20-05	REVISED INSPECTION MANHOLE	
2	6-2-05	ADDED AIR RELEASE VALVE	

RUSSELL & AXON, INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

WATER WORKS PROJECT
TRANSMISSION MAIN
MANATEE COUNTY, PART H

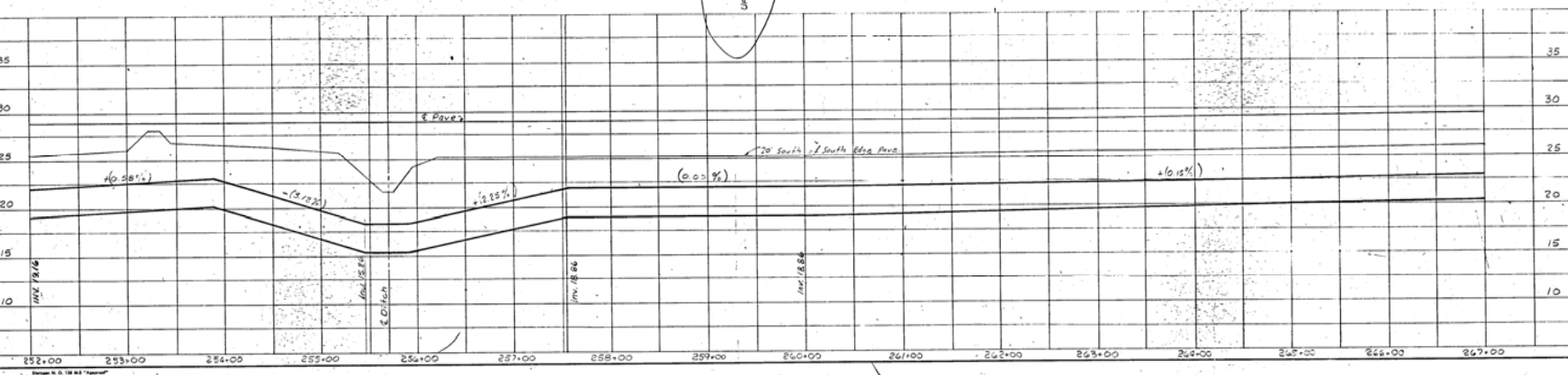
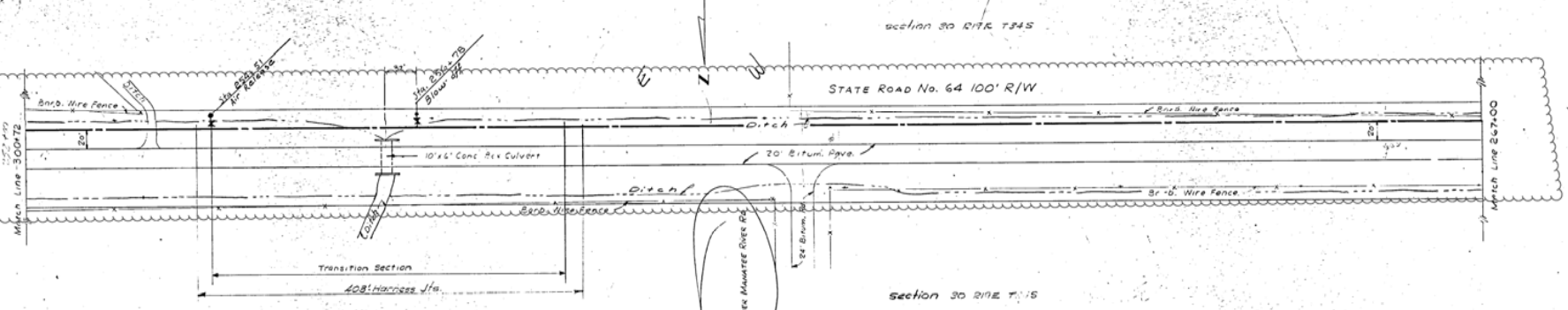
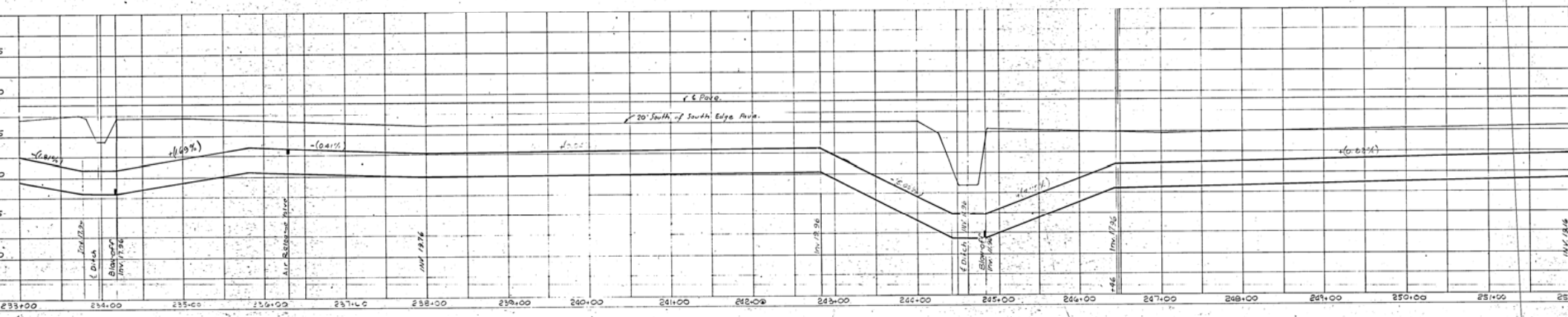
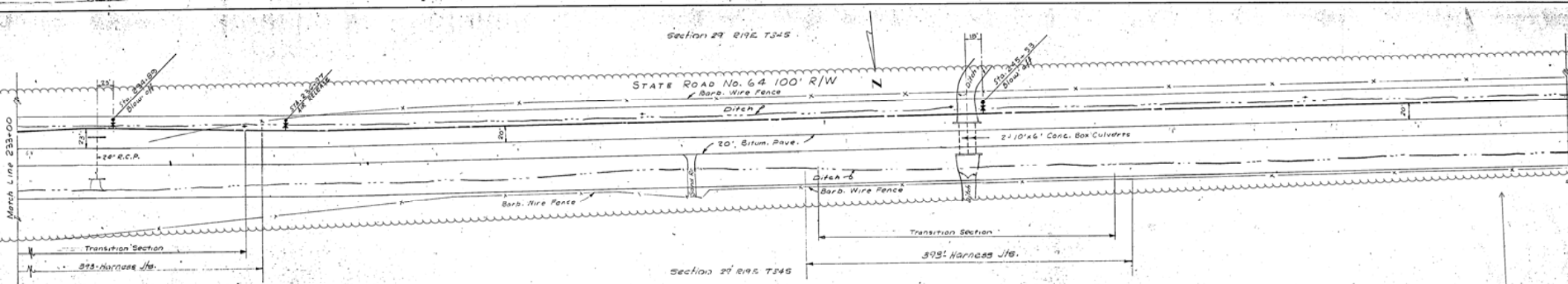
DESIGNED BY: FILE NO.
G.W.C.
DRAWN BY: R.C.T. STA: 6353-3-10-V-H
CHECKED BY: P.M. SHEET: No. 10 of 11
DATE: 2-2-05 SHEETS: 11 of 50 HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'



This water line was grouted and abandoned in place. Refer to record number 2057 page 001.

THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY. FOR UNRECORDED WORK ON THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 793-8811.

1	5/20/65	REVISED INSPECTION MANHOLE
2	3-65	RELOCATED LINE
NO.	DATE	DESCRIPTION
REVISIONS		
RUSSELL & AXON, INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.		
WATER WORKS PROJECT TRANSMISSION MAIN PART H MANATEE COUNTY, FLA.		
DESIGNED BY	FILE NO.	6353-3-II-X-H SHEET No. 11 of 29 SHEETS
DRAWN BY	DATE	
CHECKED BY	DATE	SCALE: 1" = 50' horiz., 1" = 5' vert.



This water line was grouted and abandoned in place. Refer to record number 2057 page 001

THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY. FOR AN UNEDITED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (841) 792-8813

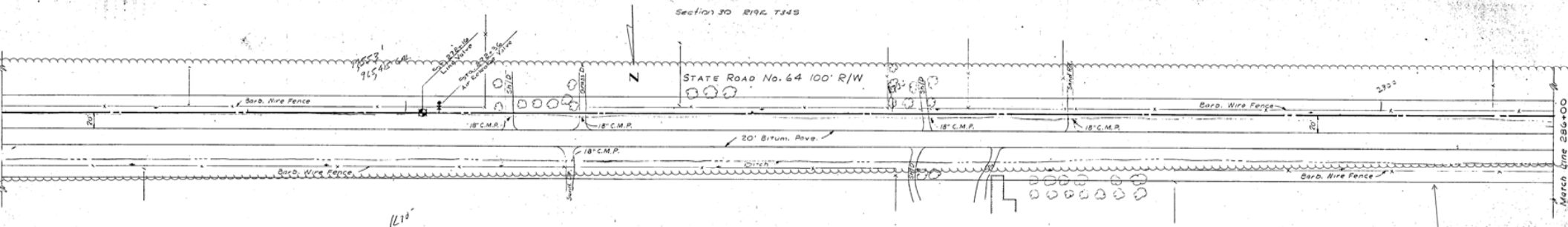
NO.	DATE	DESCRIPTION	REVISIONS
1	12/14/11	20'x24' LMS	

RUSSELL & AXON • INC.
 CONSULTING ENGINEERS
 DAYTONA BEACH, FLA.

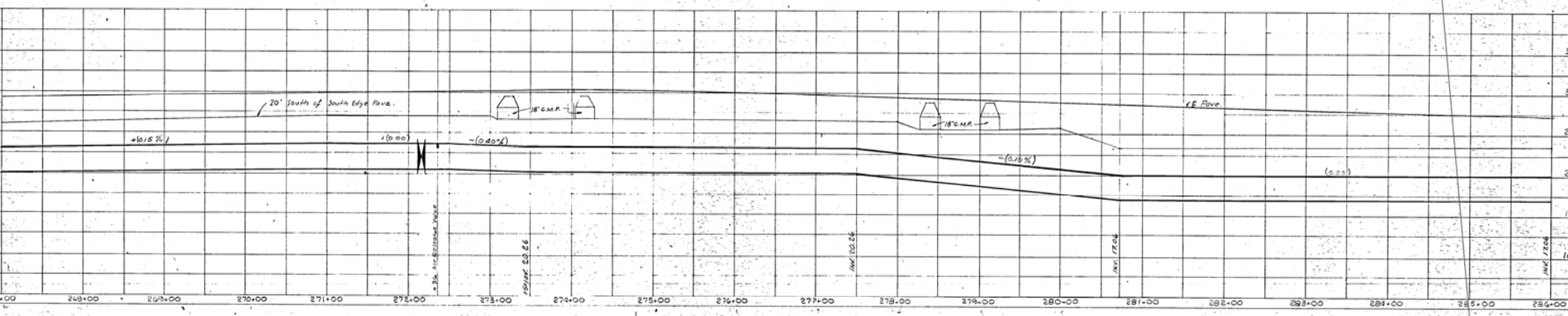
WATER WORKS PROJECT
 TRANSMISSION MAIN
 MANATEE COUNTY PART H

DESIGNED BY G.W.C.	FILE NO. 6353-3-12-X-H
DRAWN BY R.C.T./J.	SHEET No. 12 X-H
CHECKED BY P.M.	OF 25 SHEETS
DATE 2-6-8	SCALE 1" = 50' HORIZ. 1" = 5' VERT.

Section 30 R17E T34S

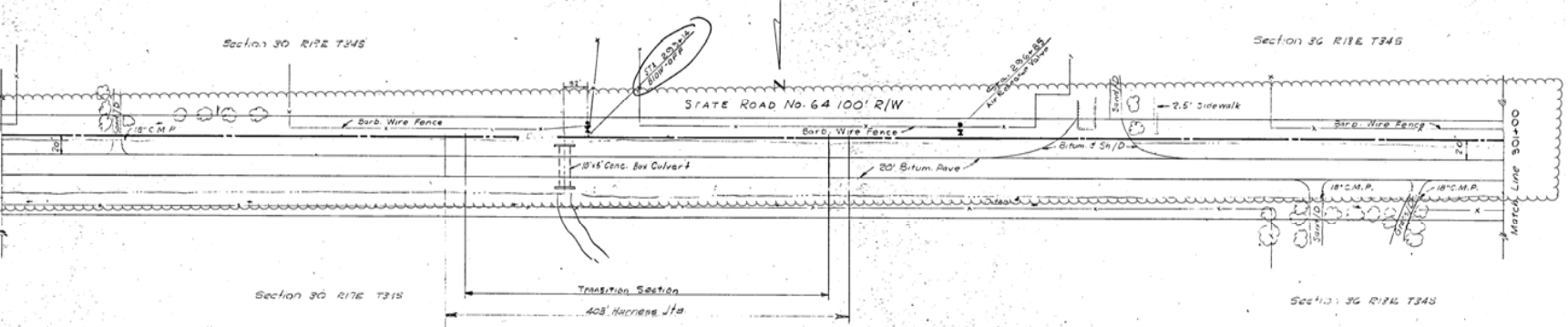


Section 30 R17E T34S



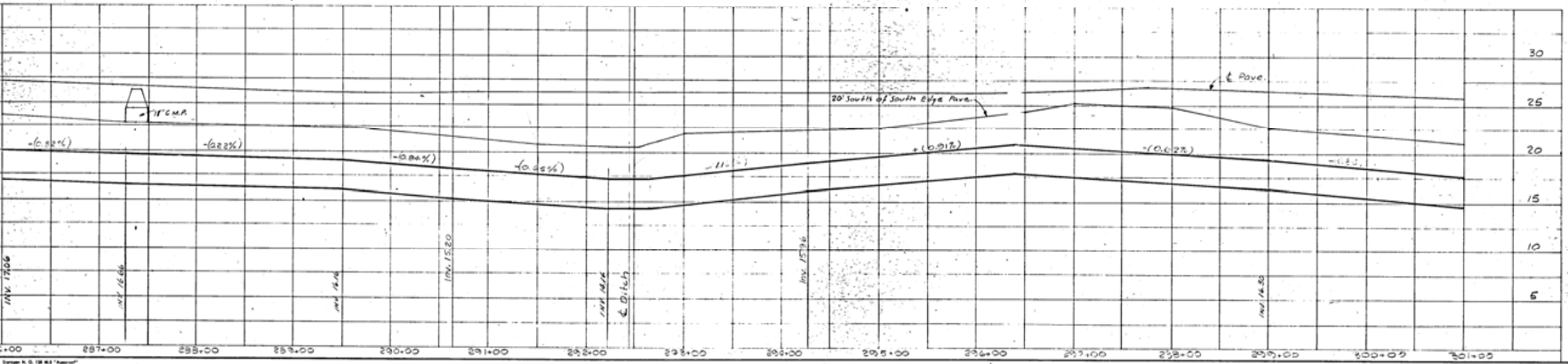
Section 30 R17E T34S

Section 36 R18E T34S



Section 30 R17E T34S

Section 36 R18E T34S

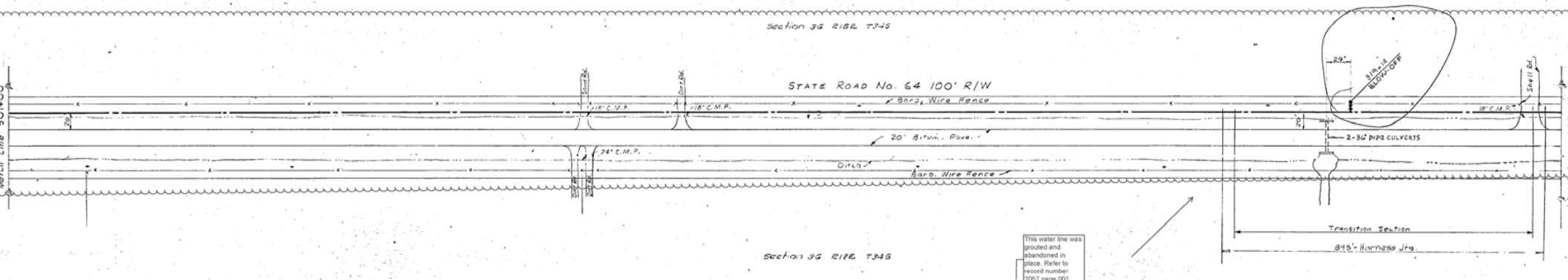


This Water line was installed and abandoned in place. Refer to 2007 page 001

THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY. FOR AN UNREDACTED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 793-8811

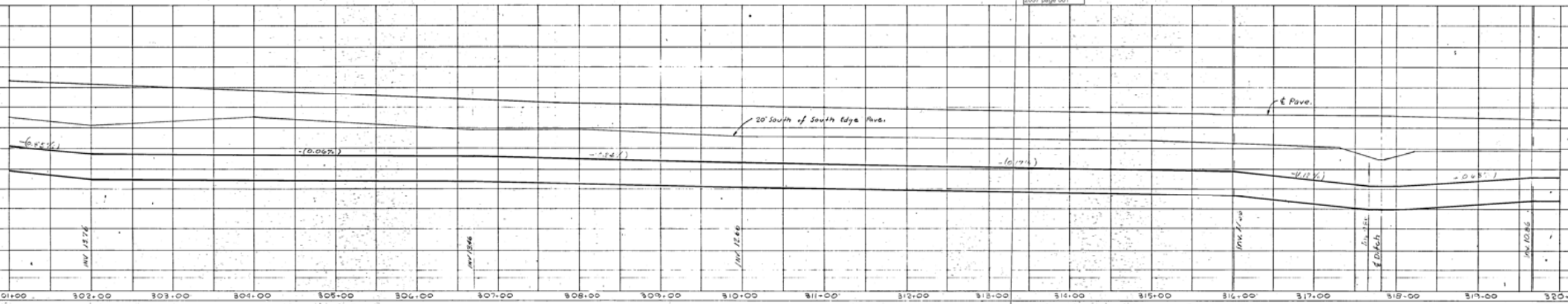
DESIGNED BY	REVISED INSPECTION MANUALS	J.M.H.
DRAWN BY	Relocated L.R.	A.J.N.
CHECKED BY		BY
DATE		
REVISIONS		
<p>RUSSELL & AXON, INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA. ST. LOUIS, MO.</p>		
<p>WATER WORKS PROJECT TRANSMISSION MAIN PART H</p>		
MANATEE COUNTY, FLORIDA	FILE NO.	SEAL
	6353-3-13-V-H	
	SHEET	
	OF 29	
	NO. 13	
	NO. 3079	
	FLORIDA	
	REGISTERED	
	SCALE: 1" = 50' Horiz. 1" = 5' Vert.	

Section 36 R18L T345

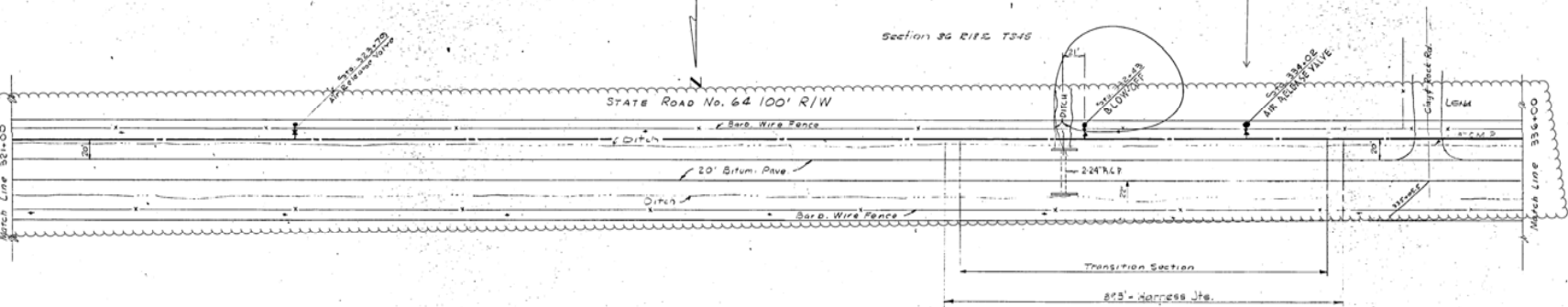


Section 36 R18E T345

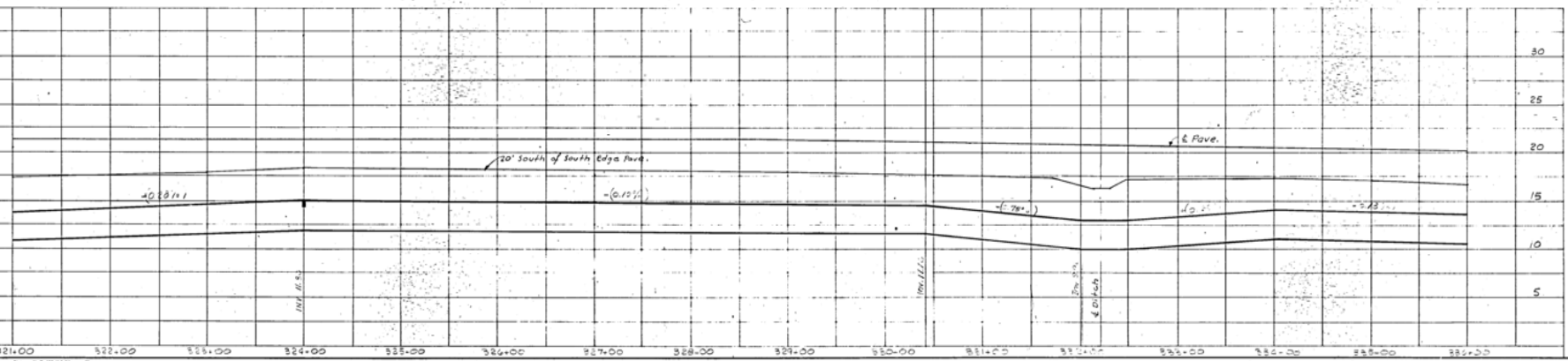
This water line was grouted and abandoned in place. Refer to record number 2007 page 001



Section 36 R18E T345



Section 36 R18E T345



THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY FOR AN UPDATED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 792-8811

DATE: 5-5-09

1	2006	REVISED INSPECTION MANHOLE	M
2	2005	Relocated Line	A
NO	DATE	DESCRIPTION	BY
REVISIONS			

RUSSELL & AXON - INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

WATER WORKS PROJECT
TRANSMISSION MAIN
MANATEE COUNTY, PART H

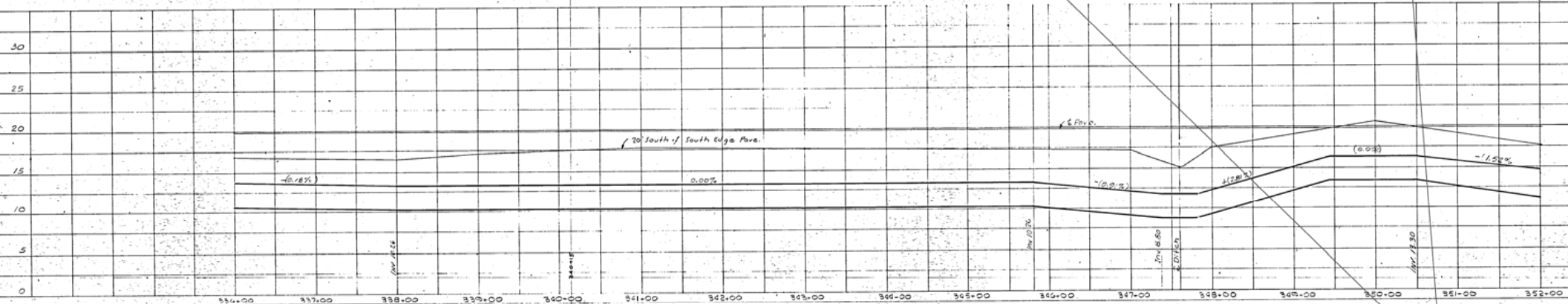
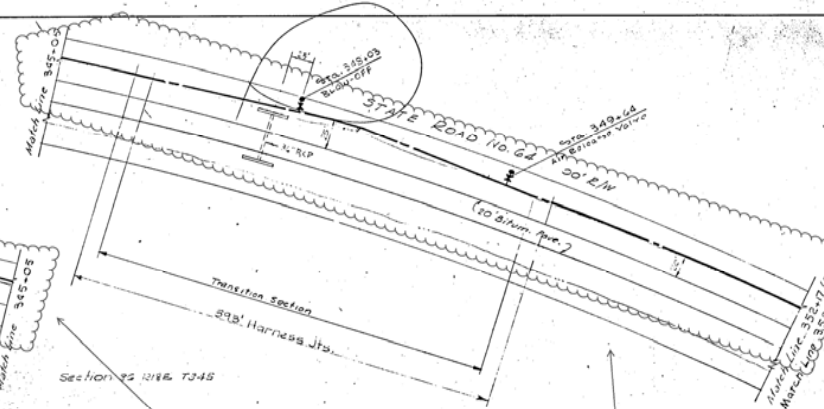
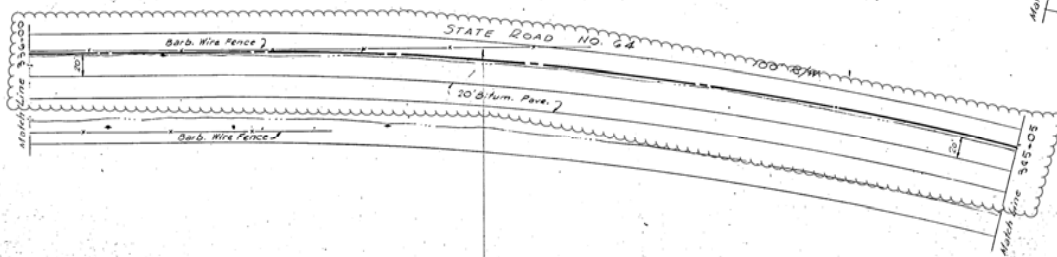
DESIGNED BY: S.W.C.
DRAWN BY: R.C.T. II
CHECKED BY: P.M.
DATE: 2-22

FILE NO.: 6353-3-14-V-H
SHEET 14 of 25
No. 14 of 25 SHEETS

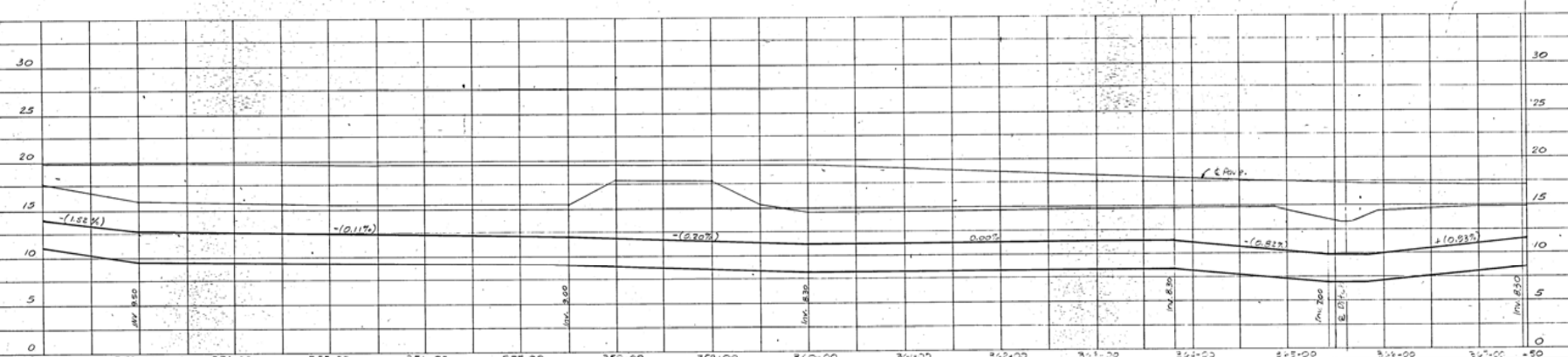
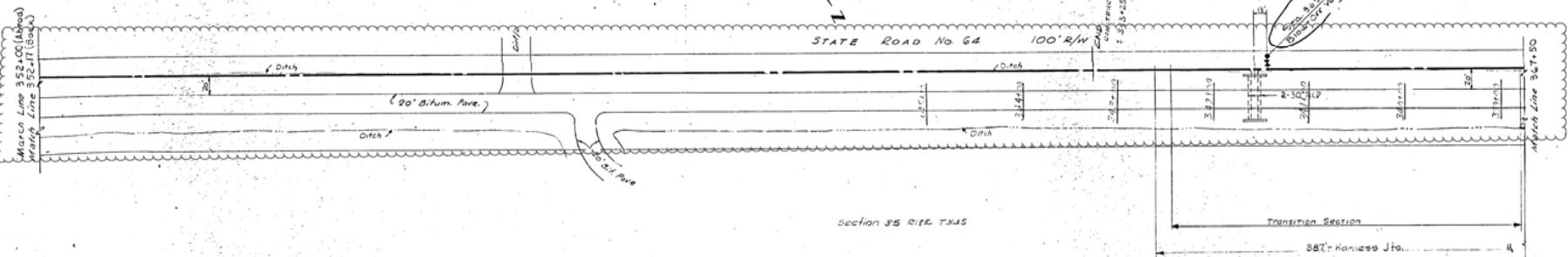
SCALE: 1" = 50' Horiz.
1" = 5' Vert.

16-07

Section 34 R18E T34S



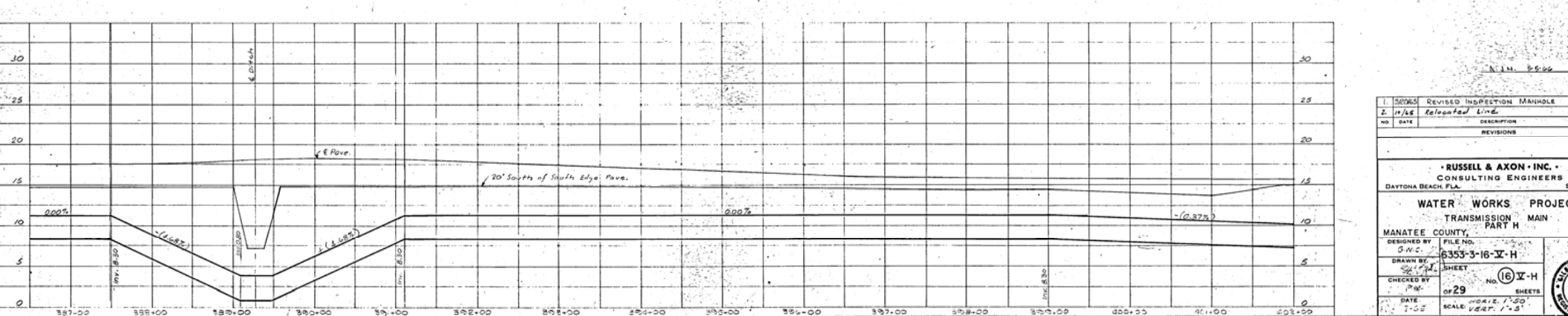
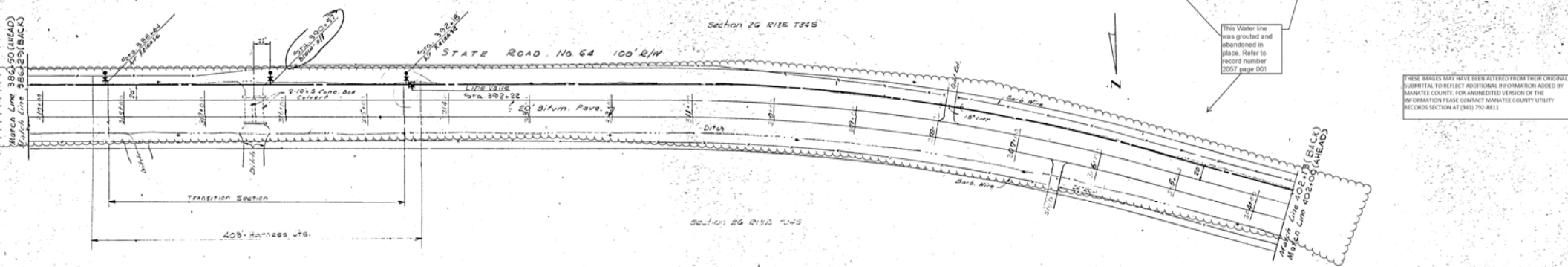
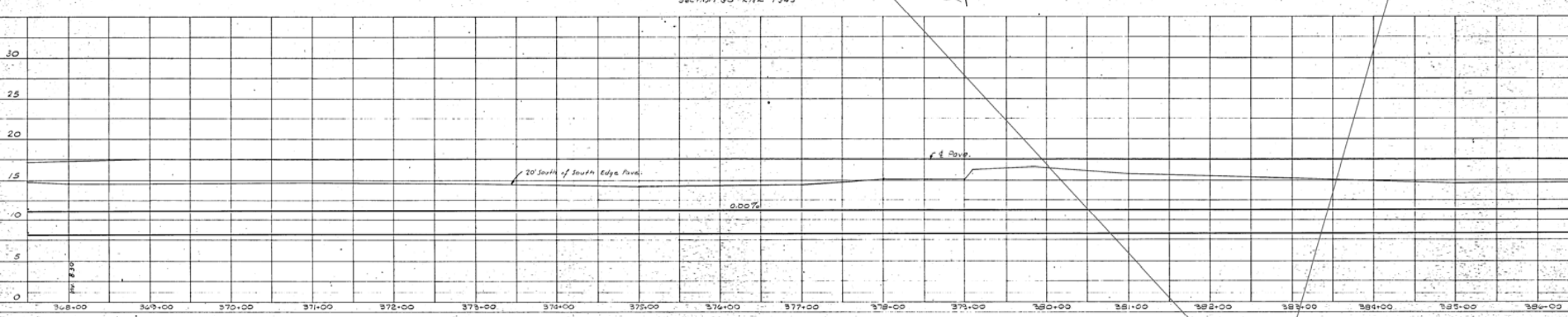
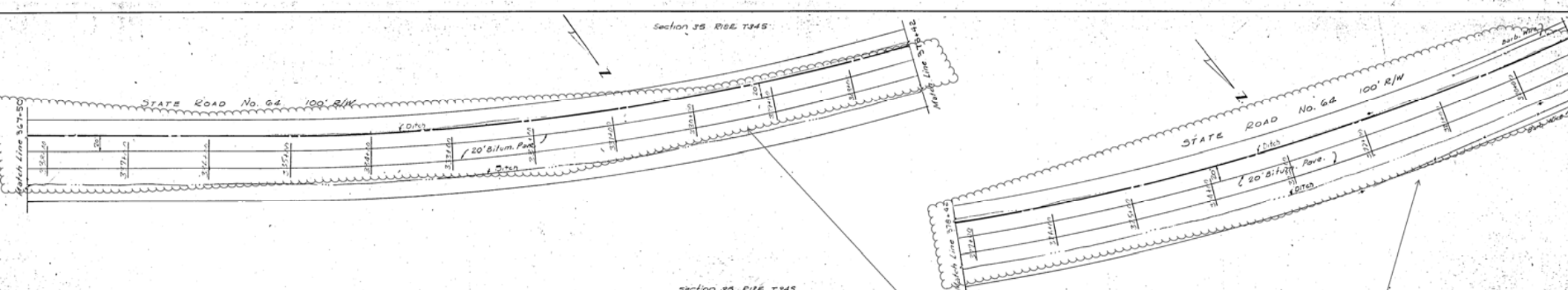
Section 35 R18E T34S



This Water Line was graded and abandoned in place. Refer to record number 2057 page 001

THESE DRAWINGS MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTALS TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY FOR AN AMENDED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 792-8831

1	5/22/05	REVISED INSTRUCTION MANHOLE
2	4/18/05	Revised LWS
NO.	DATE	DESCRIPTION
REVISIONS		
<p>RUSSELL & AXON • INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.</p> <p>WATER WORKS PROJ TRANSMISSION MAIN MANATEE COUNTY, PART H</p>		
DESIGNED BY	FILE NO.	
DRAWN BY	6353-3-15-V-H	
CHECKED BY	SHEET	
DATE	OF 29	NO. 15 V-H
	SCALE: HORIZ. 1"=30'	SHEETS
	VERT. 1"=5'	

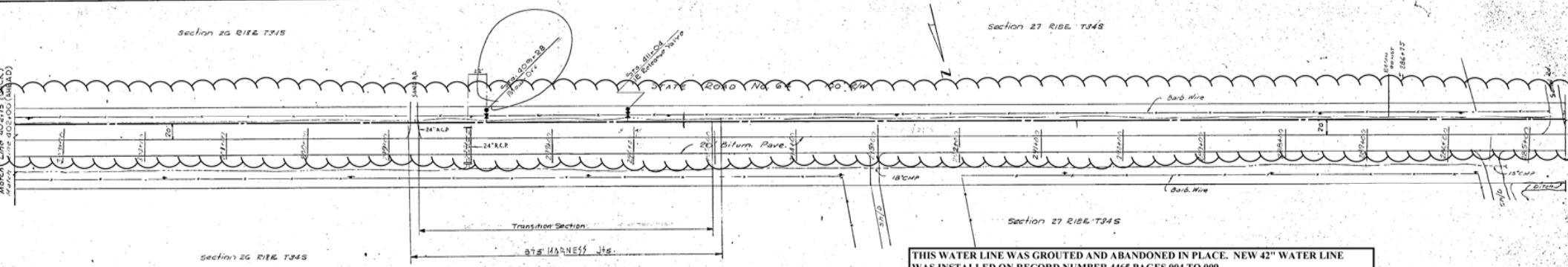


1.	5/20/05	REVISED INSPECTION MANHOLE
2.	n/s	Relocated Line
NO.	DATE	DESCRIPTION
REVISIONS		
RUSSELL & AXON • INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.		
WATER WORKS PROJECT TRANSMISSION MAIN PART H MANATEE COUNTY		
DESIGNED BY	FILE NO.	SHEET No. 16 of 29 No. 16 of 29 SHEETS
DRAWN BY	6353-3-16-X-H	
CHECKED BY	DATE	SCALE
	7-02	HORIZ. 1"=50' VERT. 1"=5'

16-07

Section 26 R18E T34S

Section 27 R18E T34S

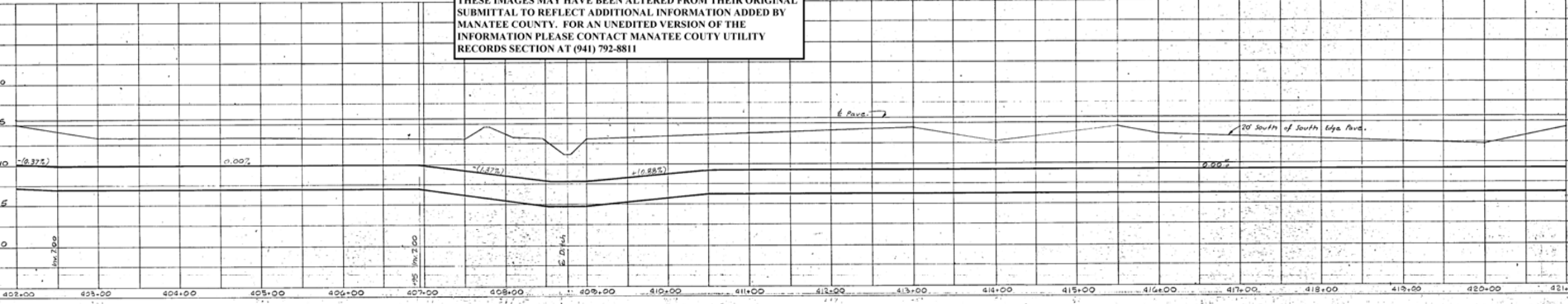


Section 26 R18E T34S

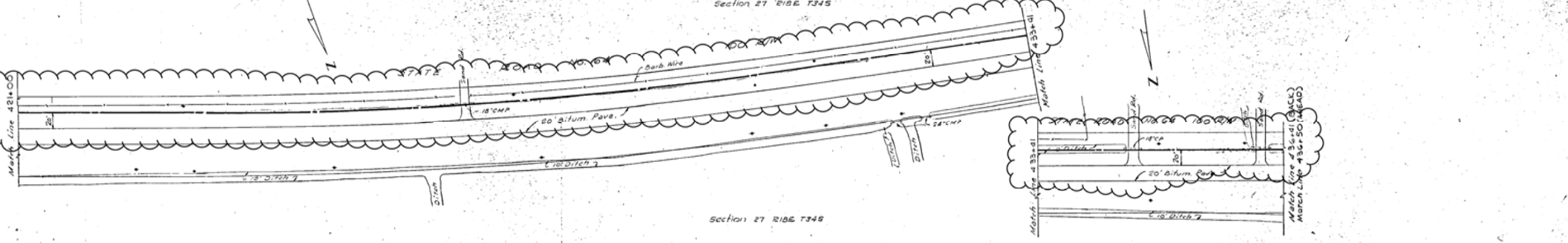
Section 27 R18E T34S

THIS WATER LINE WAS GROUTED AND ABANDONED IN PLACE. NEW 42" WATER LINE WAS INSTALLED ON RECORD NUMBER 4465 PAGES 004 TO 009

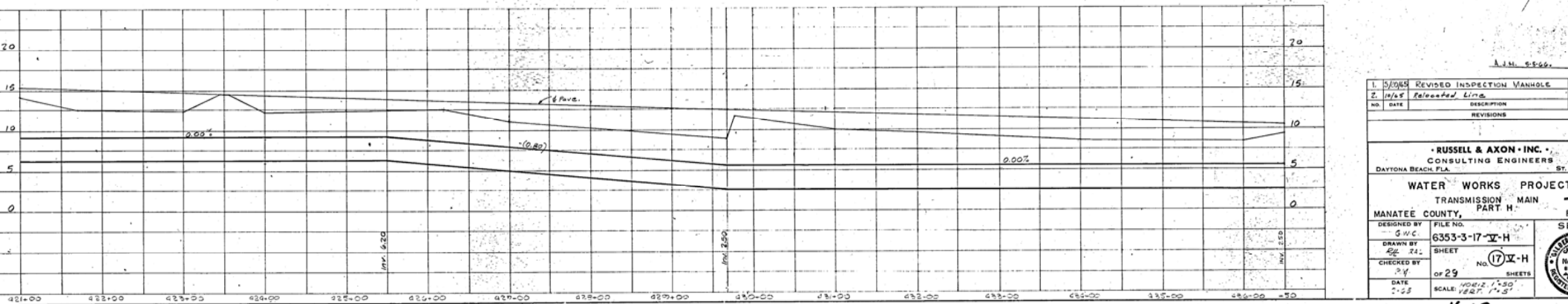
THESE IMAGES MAY HAVE BEEN ALTERED FROM THEIR ORIGINAL SUBMITTAL TO REFLECT ADDITIONAL INFORMATION ADDED BY MANATEE COUNTY. FOR AN UNEDITED VERSION OF THE INFORMATION PLEASE CONTACT MANATEE COUNTY UTILITY RECORDS SECTION AT (941) 792-8811



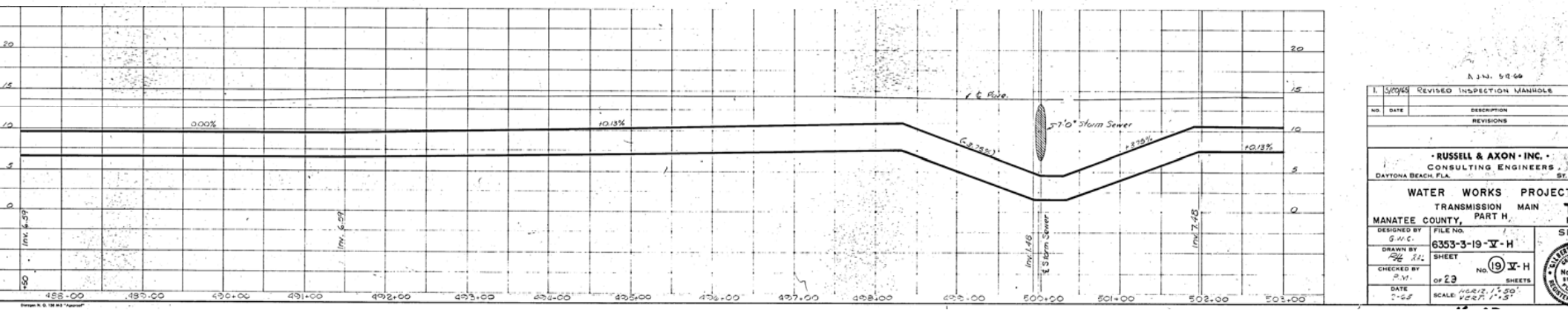
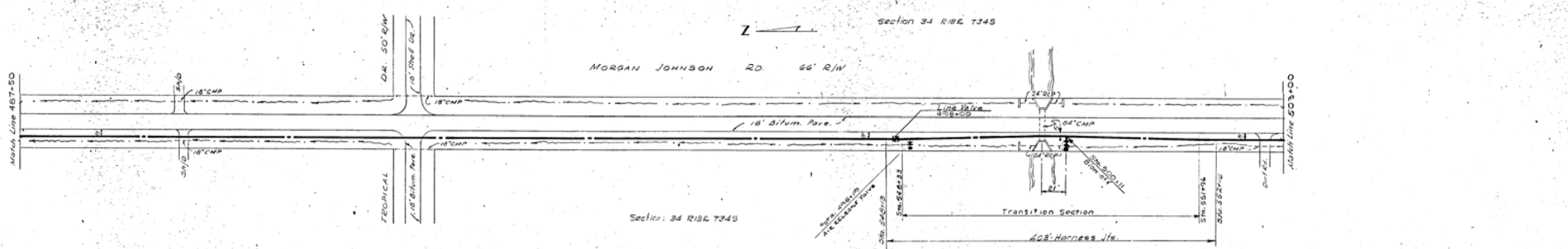
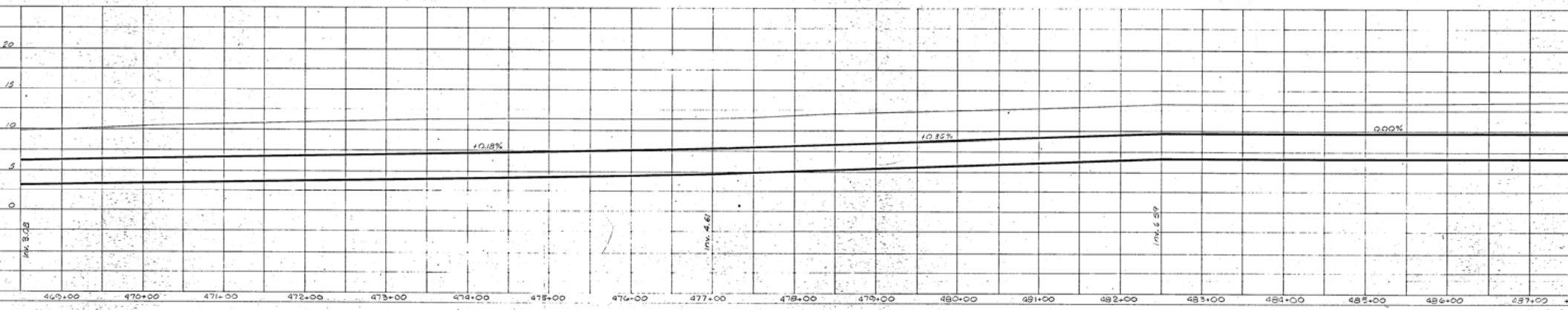
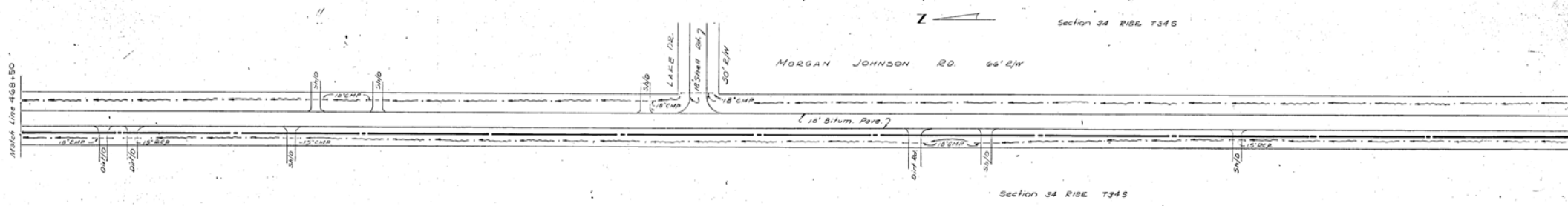
Section 27 R18E T34S



Section 27 R18E T34S



1	5/20/88	REVISED INSPECTION MANHOLE
2	10/18/88	RELEASED LINE
NO.	DATE	DESCRIPTION
REVISIONS		
RUSSELL & AXON, INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.		
WATER WORKS PROJECT TRANSMISSION MAIN MANATEE COUNTY, PART H		
DESIGNED BY	FILE NO.	
DRAWN BY	6353-3-17-X-H	
CHECKED BY	SHEET	
	NO. 17-X-H	
DATE	SCALE	
1-88	1"=50'	



A.J.N. 5-8-66

I. 5/19/66 REVISED INSPECTION MANHOLE			
NO.	DATE	DESCRIPTION	REVISIONS

RUSSELL & AXON - INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

WATER WORKS PROJECT
TRANSMISSION MAIN
MANATEE COUNTY, PART H.

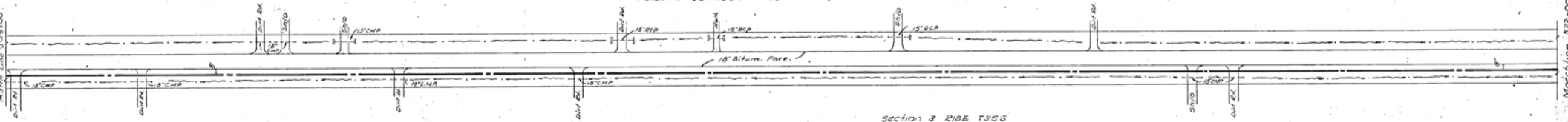
DESIGNED BY S.M.C.	FILE NO. 6353-3-19-V-H
DRAWN BY R.L.S.	SHEET 19
CHECKED BY P.V.	OF 23 SHEETS
DATE 5-66	SCALE HORIZ. 1"=50' VERT. 1"=5'

Section 34 RISE T345

Section 3 RISE T355

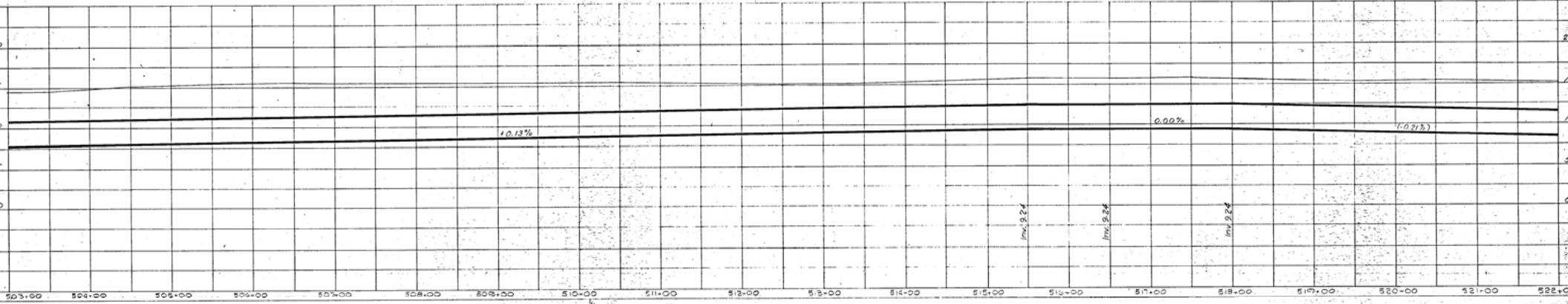


MORGAN JOHNSON RD. 66' R/W



Section 3 RISE T355

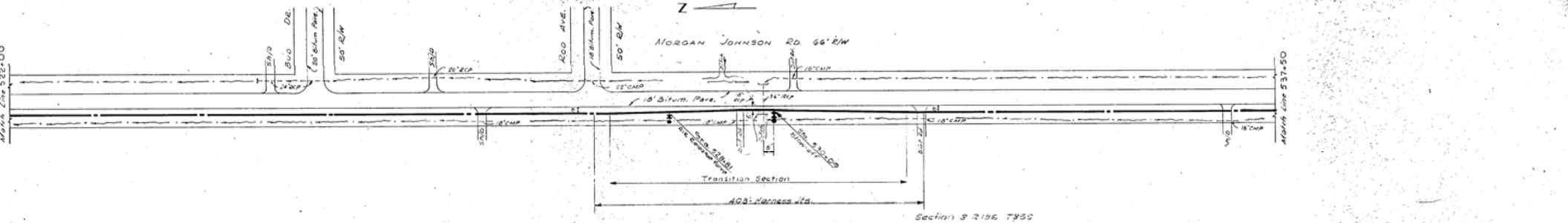
Section 34 RISE T345



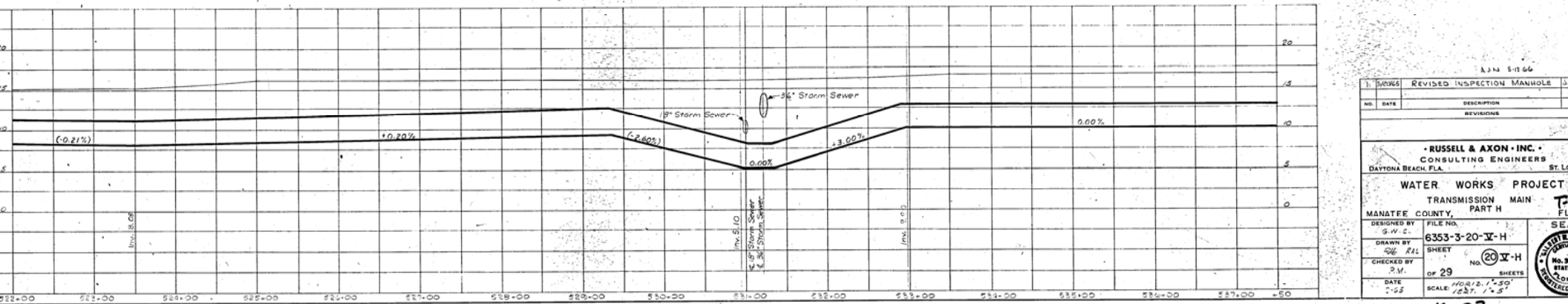
Section 3 RISE T355



MORGAN JOHNSON RD. 66' R/W



Section 3 RISE T355



NO.	DATE	DESCRIPTION

DESIGNED BY: FILE NO. G.W.C.
 DRAWN BY: 6353-3-20-V-H
 CHECKED BY: R.M.
 DATE: 2-68

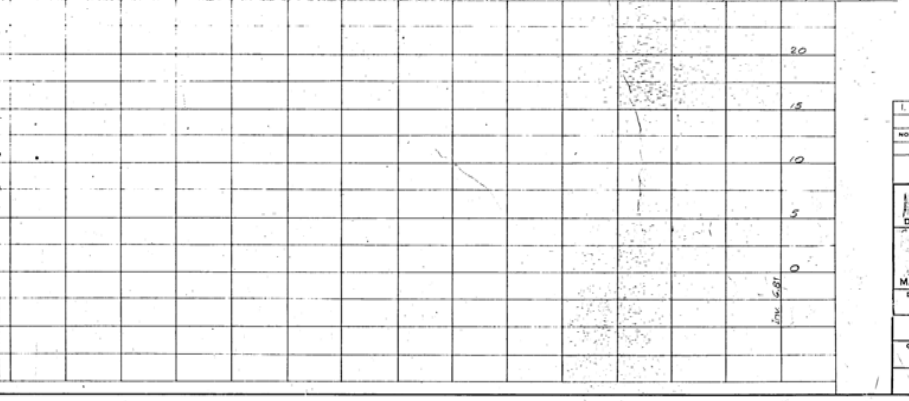
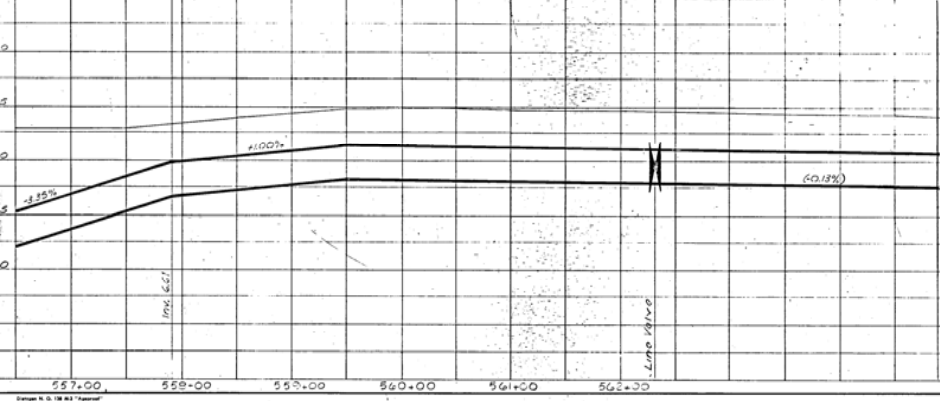
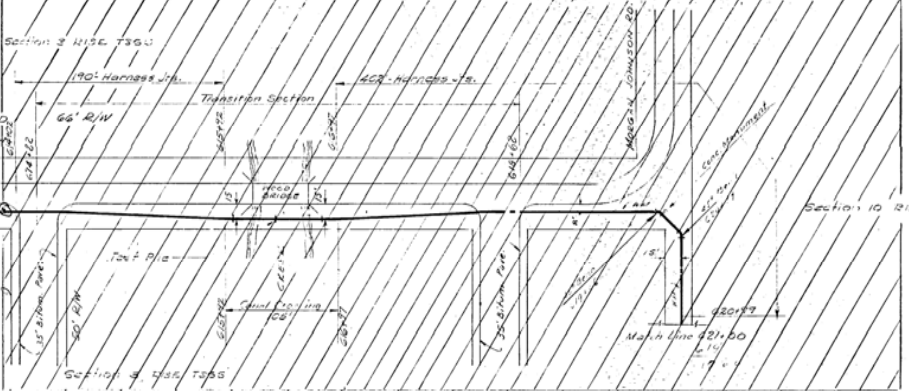
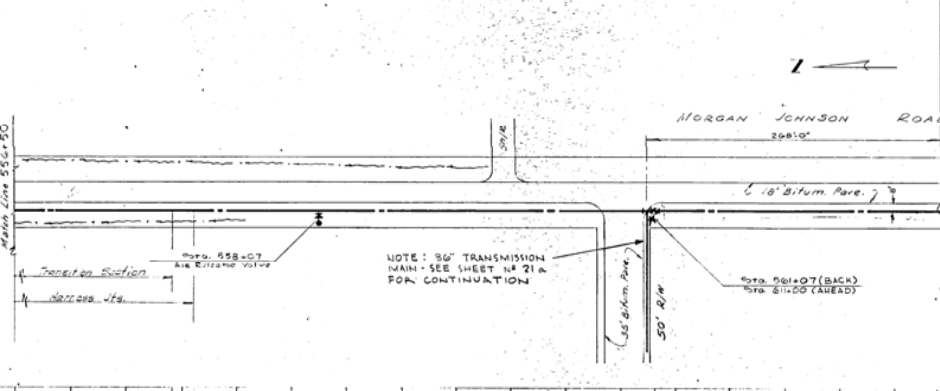
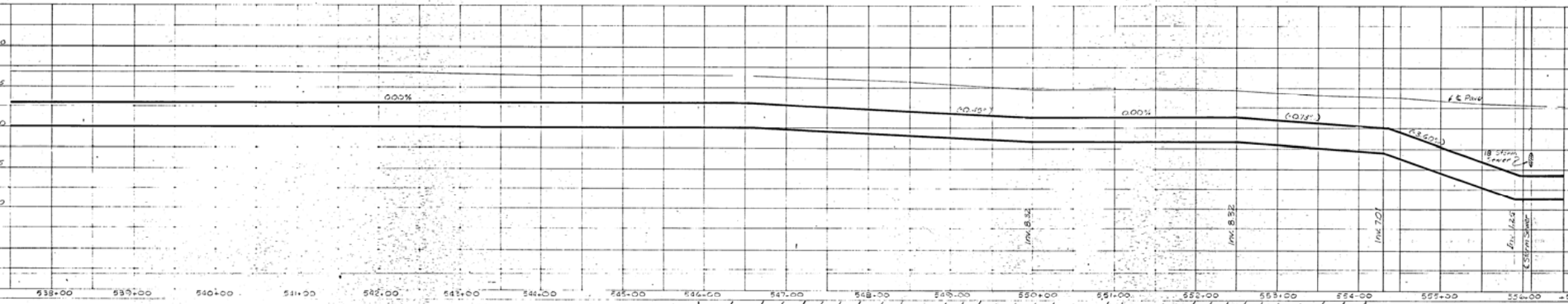
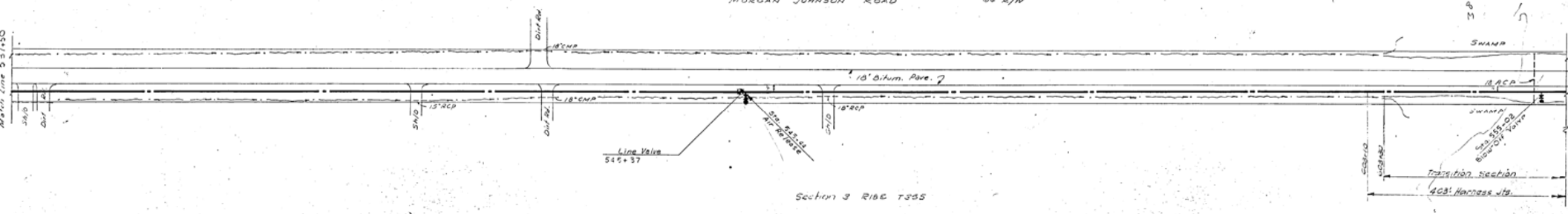
SCALE: HORIZ. 1"=50'
 VERT. 1"=5'

MANATEE COUNTY, FLORIDA
 WATER WORKS PROJECT
 TRANSMISSION MAIN
 PART H

NO. 29 OF 29 SHEETS
 SHEET NO. 20 V-H

RUSSELL & AXON, INC.
 CONSULTING ENGINEERS
 DAYTONA BEACH, FLA.

Section 3 RISE T398
 7
 MORGAN JOHNSON ROAD 66' R/W



1. 5/16/25 REVISED INSPECTION MANUALS

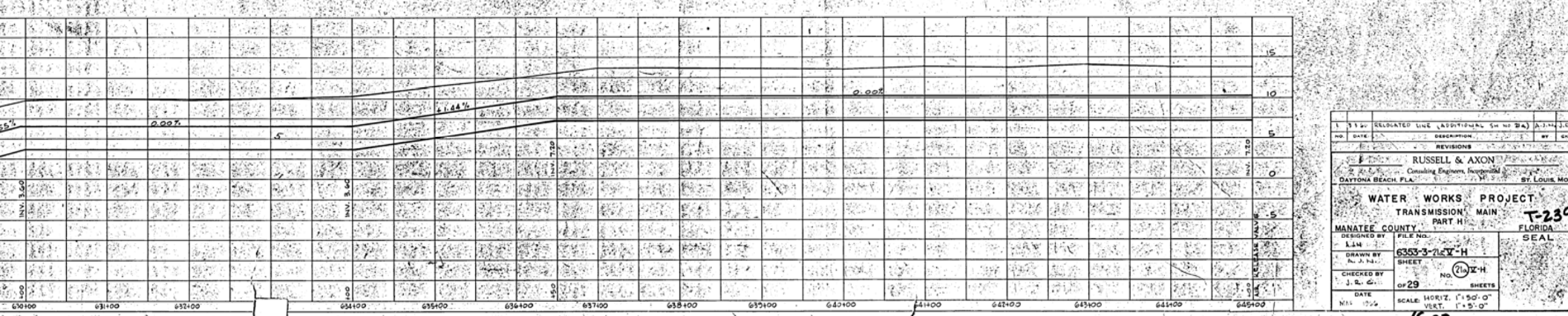
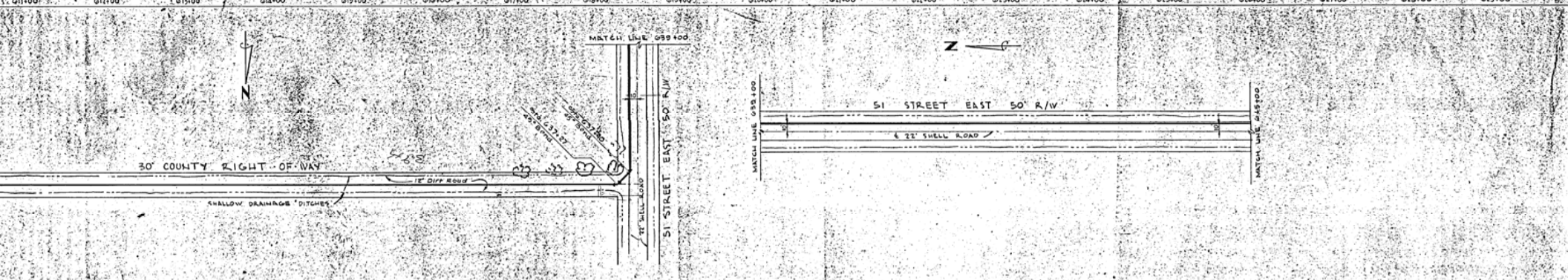
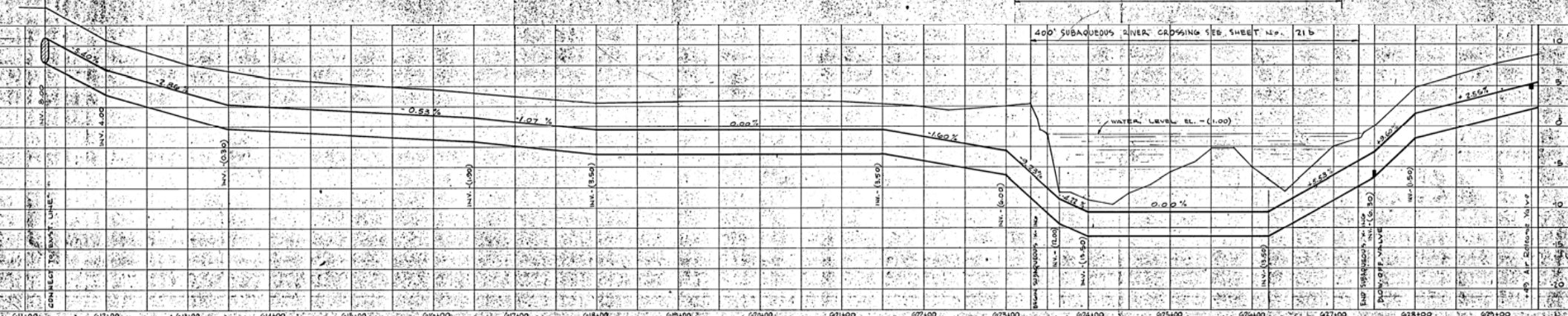
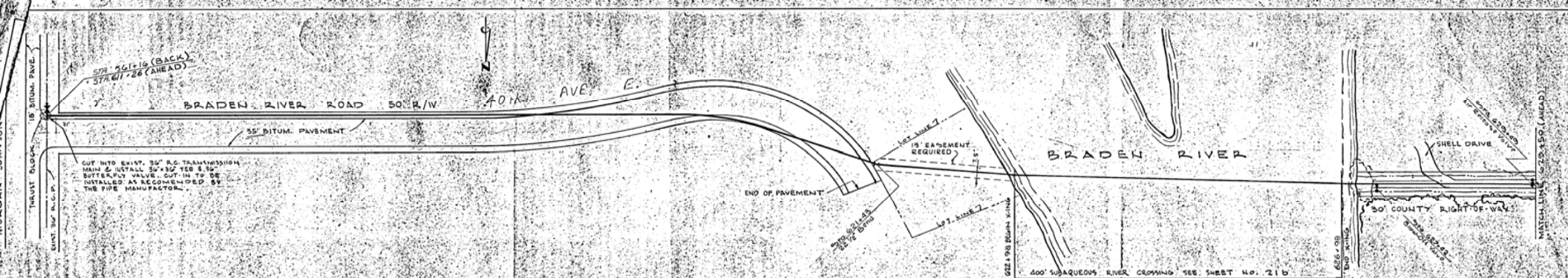
NO.	DATE	DESCRIPTION	REVISIONS

RUSSELL & AXON, INC.
 CONSULTING ENGINEERS
 DAYTONA BEACH, FLA.

WATER WORKS PROJECT
 TRANSMISSION MAIN
 MANATEE COUNTY, FLA.

DESIGNED BY: 5/16
 FILE NO.: 6353-3-21-V-H
 DRAWN BY: 4/4 2/4
 SHEET: No. 5 of 29
 CHECKED BY: 2/29
 SHEETS: 29
 DATE: 5-16
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'

16-07



NO.	DATE	DESCRIPTION	BY
REVISIONS			
1		RUSSELL & AXON	
2		Consulting Engineers, Incorporated	
3		DAYTONA BEACH, FLA.	ST. LOUIS, MO.
WATER WORKS PROJECT			
TRANSMISSION MAIN			
MANATEE COUNTY PART H			
DESIGNED BY	FILE NO.	T-230 FLORIDA SEAL	
DRAWN BY	6353-3-71-EV-H		
CHECKED BY	SHEET	NO. 1212-H OF 29 SHEETS	
DATE	NOV 1956		
SCALE: HORIZ. 1"=50'-0"		VERT. 1"=5'-0"	

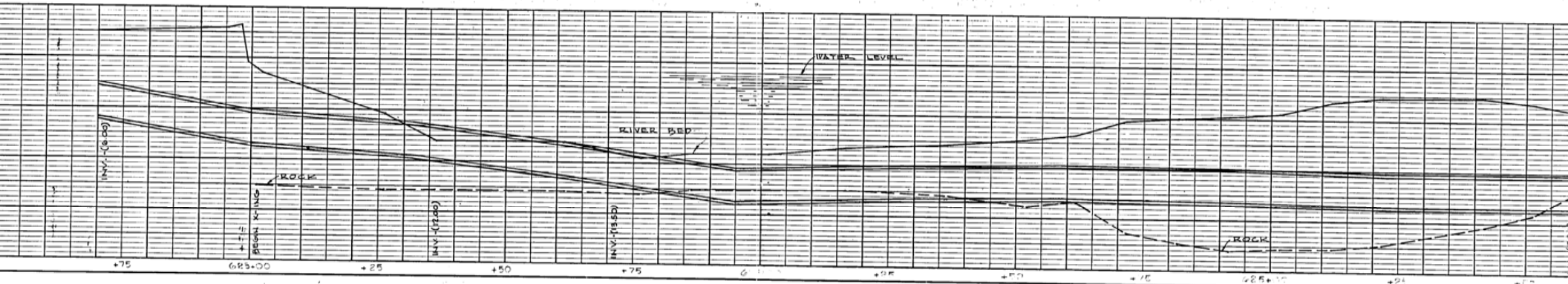
400 FOOT SUBAQUEOUS RIVER CROSSING (REINF. CONC. PRESSURE PIPE)

BRADEN RIVER

STA. 622+70
SEE SH. N. 21a FOR CONTINUATION



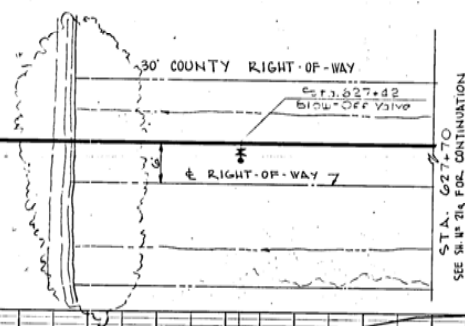
STA. 622+08
BEGIN SUBAQUEOUS
RIVER CROSSING



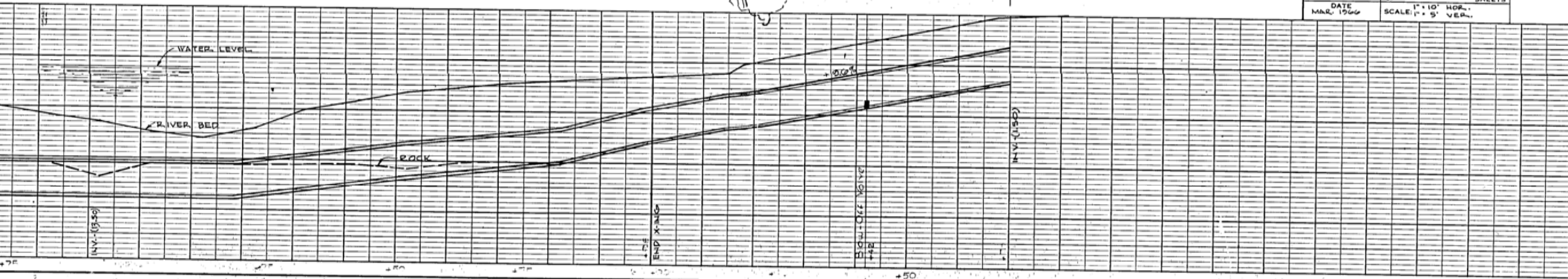
SUBAQUEOUS RIVER CROSSING

BRADEN RIVER

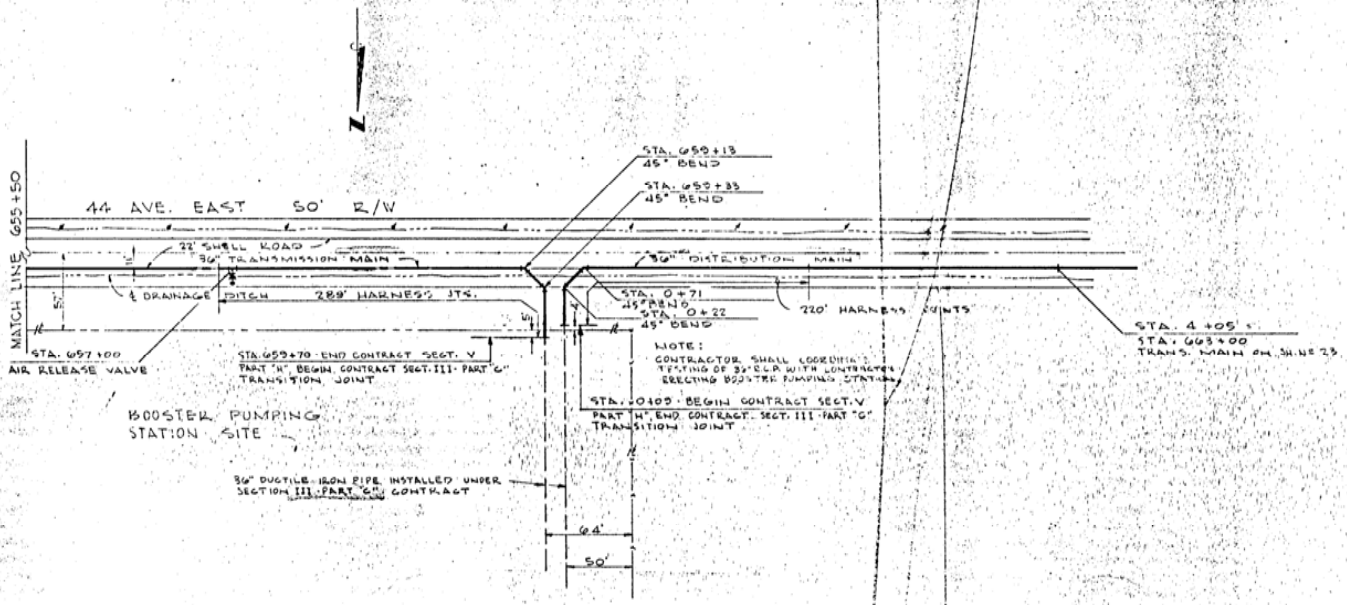
STA. 626+08
END SUBAQUEOUS CROSSING



STA. 627+70
SEE SH. N. 21a FOR CONTINUATION



1	3-3-66	BRADEN RIVER X-ING ADDITIONAL SHEET	A
NO.	DATE	DESCRIPTION	
		REVISIONS	
<p>• RUSSELL & AXON • INC. • CONSULTING ENGINEERS DAYTONA BEACH, FLA. ST. LO.</p> <p>WATER WORKS PROJECT TRANSMISSION MAIN PART "H"</p> <p>MAHATEE COUNTY FLOR.</p>			
DESIGNED BY A. J. H.	FILE NO. 6993-3-21b-V-H		
DRAWN BY A. J. L.	SHEET		
CHECKED BY	OF	No. (2) 1b	SHEETS
DATE MAR. 1966	SCALE: 1" = 10' HOR., 1" = 5' VER.		



9/66	AS BUILT	
1	1-10-66 REVISED SHEET 25 FOR NEW STATE	
NO.	DATE	DESCRIPTION
REVISIONS		
RUSSELL & AXCO Consulting Engineers, Inc. DAYTONA BEACH, FLA.		
WATER WORKS PROJ. TRANSMISSION MAIN PART "H"		
MANATEE COUNTY		
DESIGNED BY A. J. H.	FILE NO. 5363-3-234V	
DRAWN BY A. J. H.	SHEET NO. 23	OF 29
CHECKED BY J. R. C.		
DATE JAN. 10, 1966	SCALE 1" = 50' HORIZ. 1" = 5' VERT.	

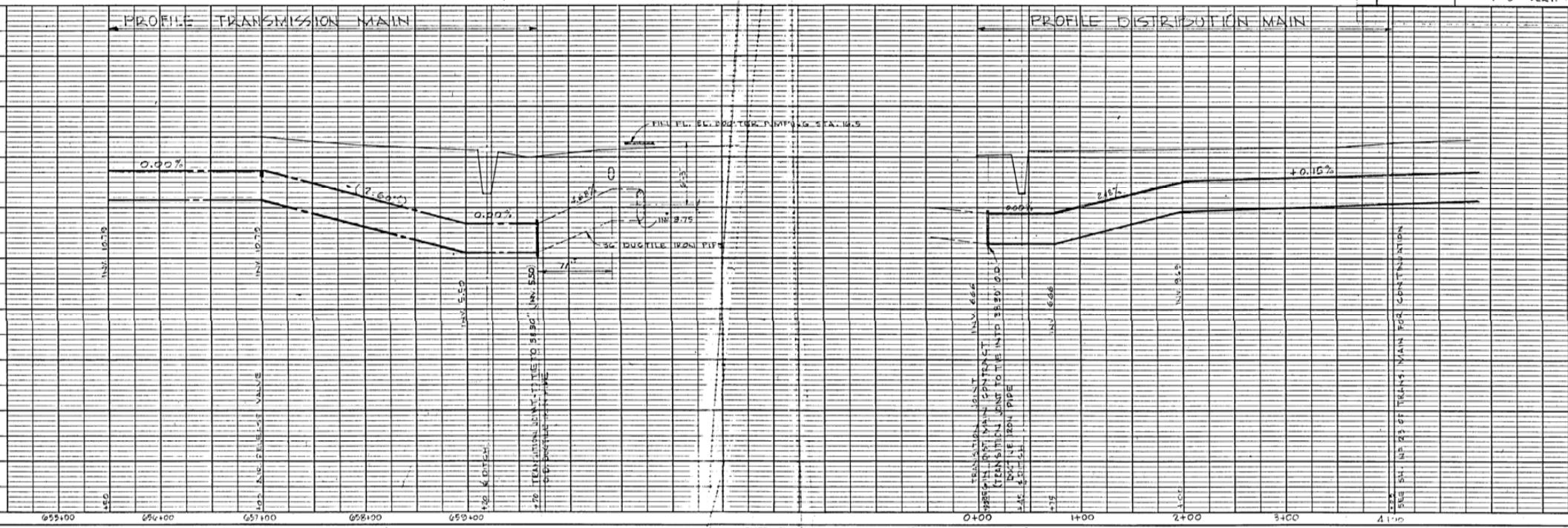
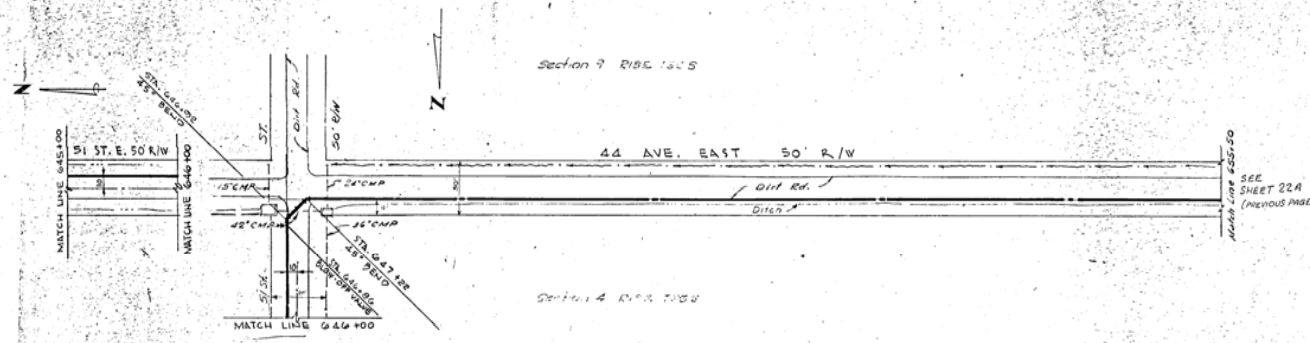
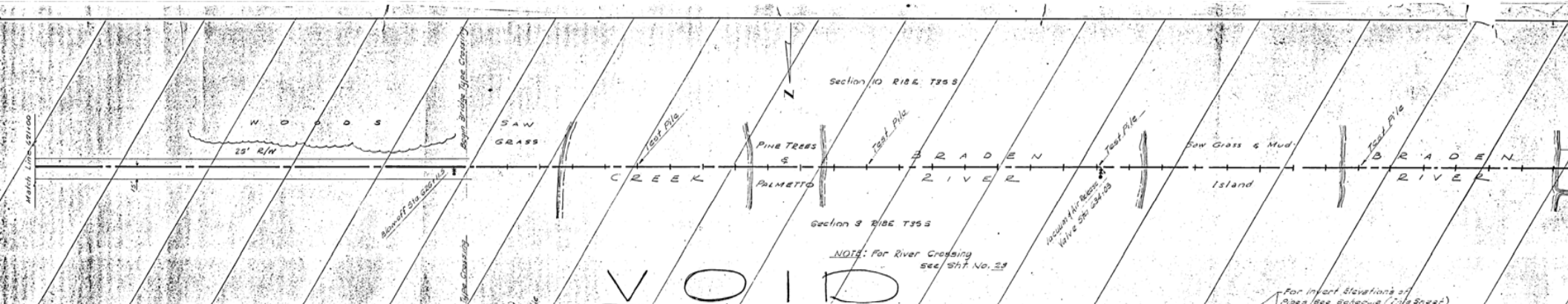


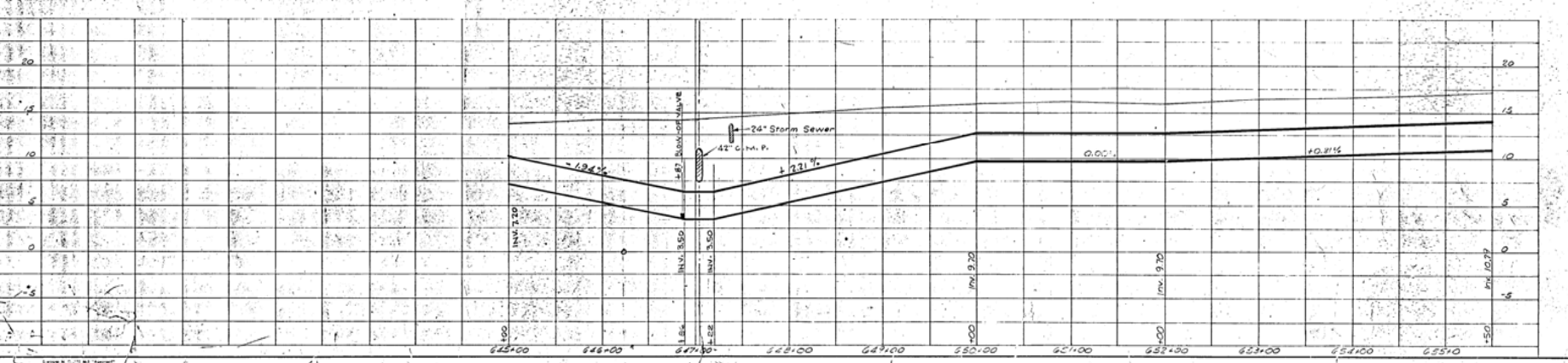
PLATE 1-PLAN/PROFILE C.P. & R.E. STANDARD
100% REPRODUCTION MADE AND PRINTED IN U.S.A.
ENGINE, DAYTONA, FLA.



**SCHEDULE #
BRADEN RIVER
PIPE INVERT ELEVATIONS**

STATION	INVERT ELEV.	STATION	INVERT ELEV.
626+00	4.01	634+00	12.0
+80	4.45	+40	12.0
627+20	4.90	+80	11.3
+60	5.34	635+20	10.6
628+00	5.79	+40	9.9
+40	6.23	636+00	9.2
+80	6.67	+40	8.5
629+20	7.12	+80	7.8
+60	7.56	637+20	7.1
630+00	8.01	+60	6.4
+40	8.45	638+00	5.7
+80	8.89	+40	5.0
631+20	9.34	+80	4.3
+60	9.78	639+20	3.6
632+00	10.23	+60	2.9
+40	10.67	640+00	2.2
+80	11.11	+40	1.5
633+20	11.56	+80	0.8
+60	12.00	641+20	0.1
634+00	12.03	+30	0.1

SEE SHEET 22A (PREVIOUS PAGE)



1	5/1/60	REVISED INSPECTION MANHOLE
2	3/3/60	RELOCATED & REDREW RIVER MAIN
NO.	DATE	DESCRIPTION
REVISIONS		

RUSSELL & AXON, INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

WATER WORKS PROJECT
TRANSMISSION MAIN
MANATEE COUNTY, PART H

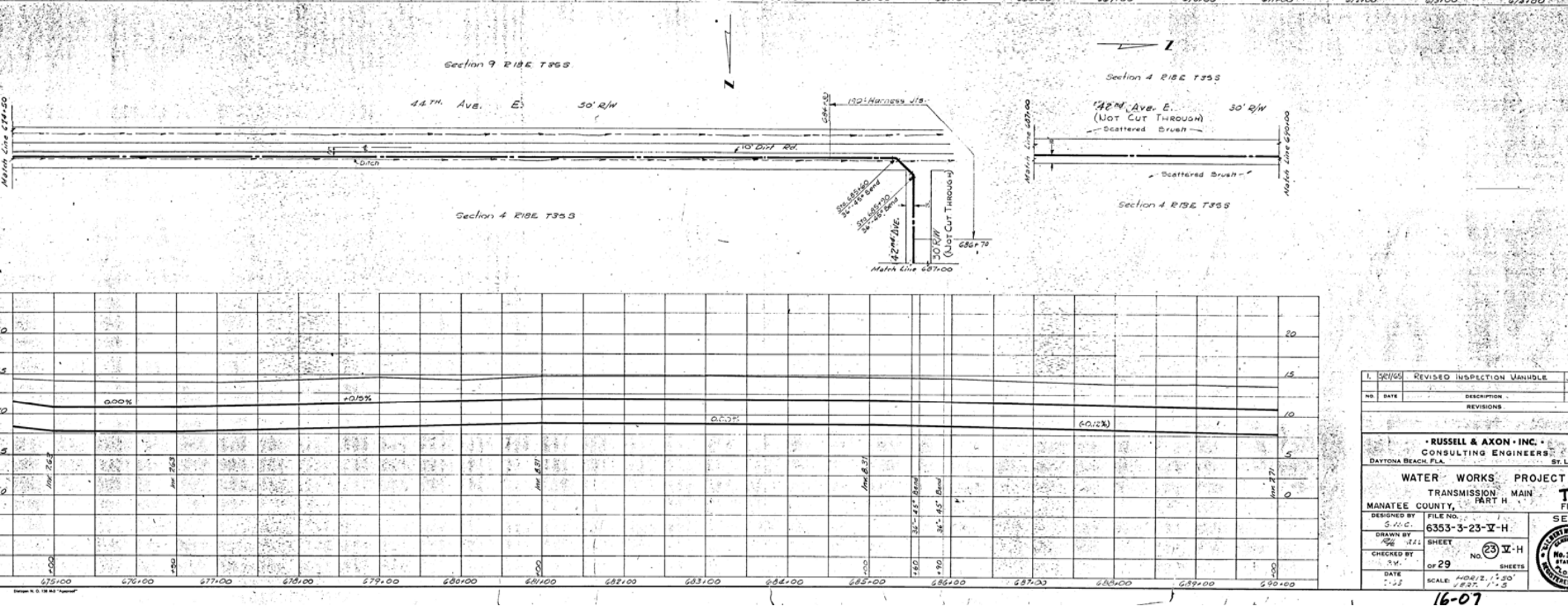
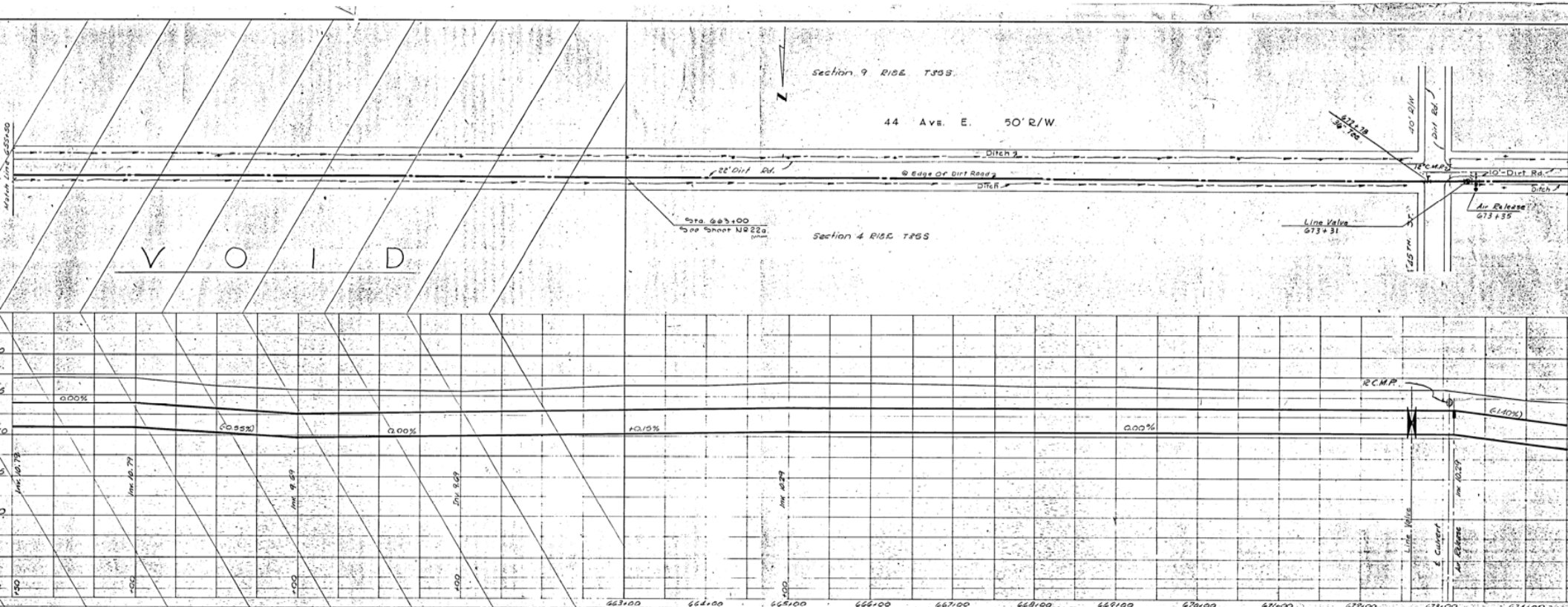
DESIGNED BY: FILE NO.
S.M.C. 6353-3-22-X-H

DRAWN BY: SHEET
C.L.S. NO. 22 X-H

CHECKED BY: OF 29 SHEETS

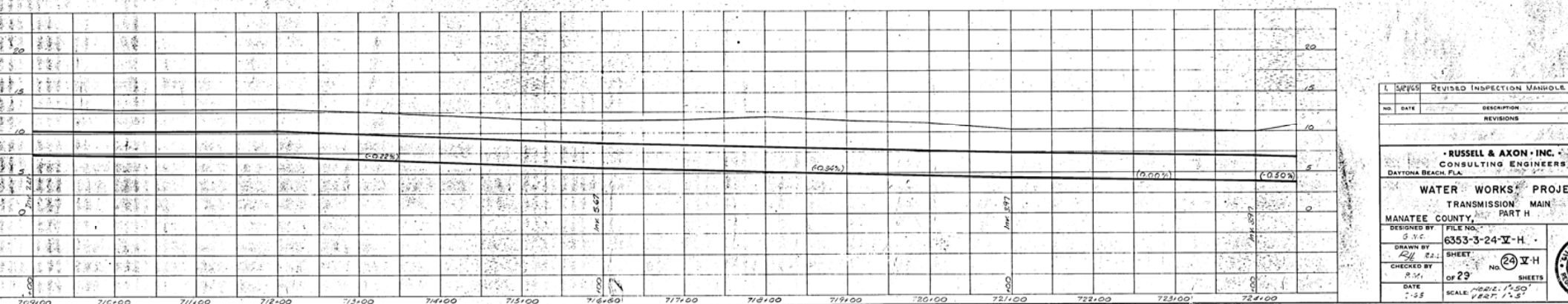
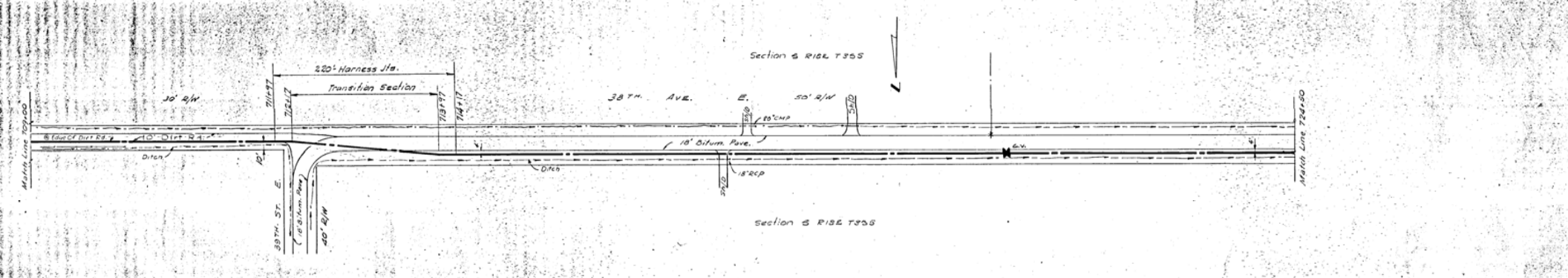
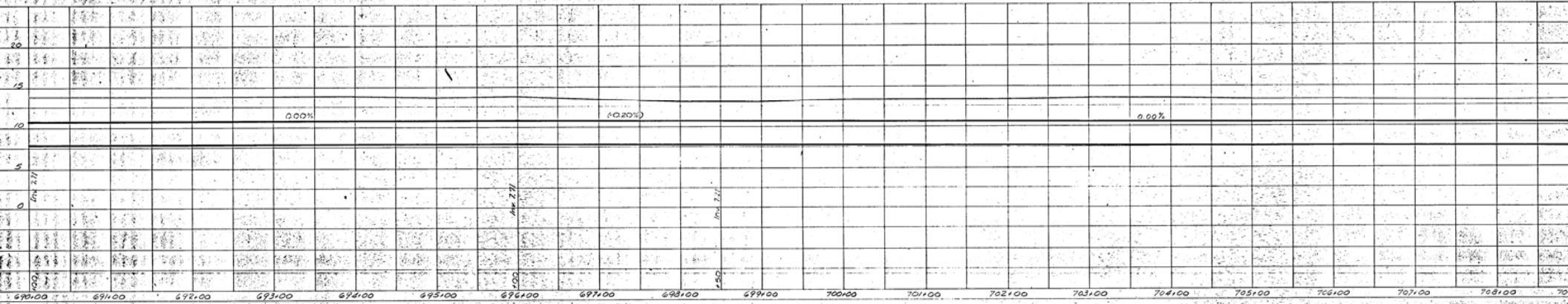
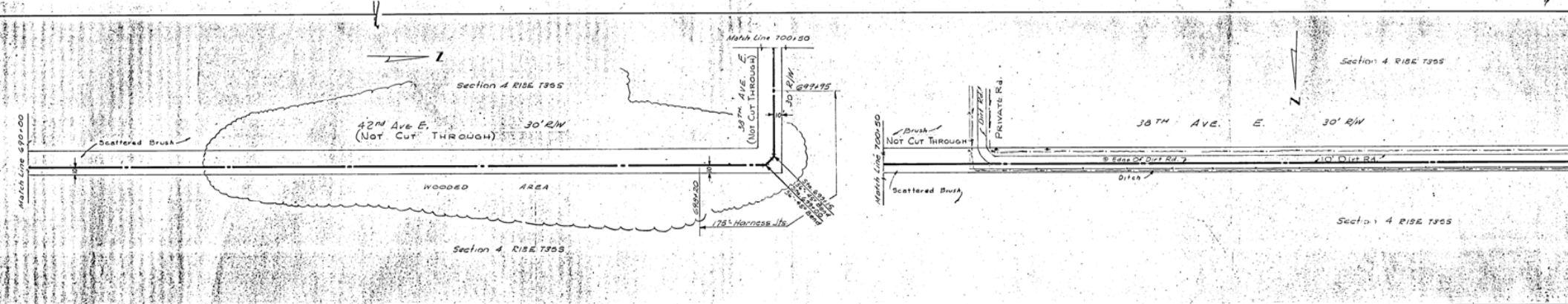
DATE: SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

16-07



NO.	DATE	DESCRIPTION
1	12/15/05	REVISED INSPECTION UNHANDLE
REVISIONS		

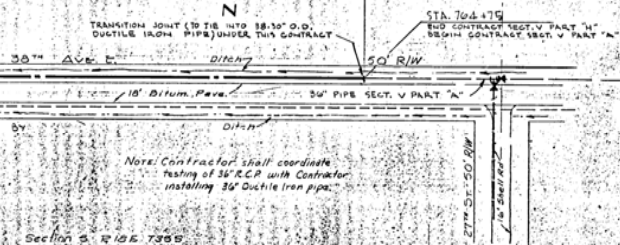
DESIGNED BY		FILE NO.
DRAWN BY		6353-3-23-X-H
CHECKED BY		SHEET
DATE		NO. 29 SHEETS
SCALE		AS SHOWN 1" = 50'



L 50765		REVISED INSPECTION MANUAL
NO.	DATE	DESCRIPTION
		REVISIONS
RUSSELL & AXON, INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA.		
WATER WORKS PROJECT TRANSMISSION MAIN MANATEE COUNTY, PART H		
DESIGNED BY	FILE NO.	
DRAWN BY	6353-3-24-X-H	
CHECKED BY	SHEET	
R.M.	OF 23	No. 24 X-H
DATE	SCALE	SHEETS
	HORIZ. 1"=50'	
	VERT. 1"=5'	

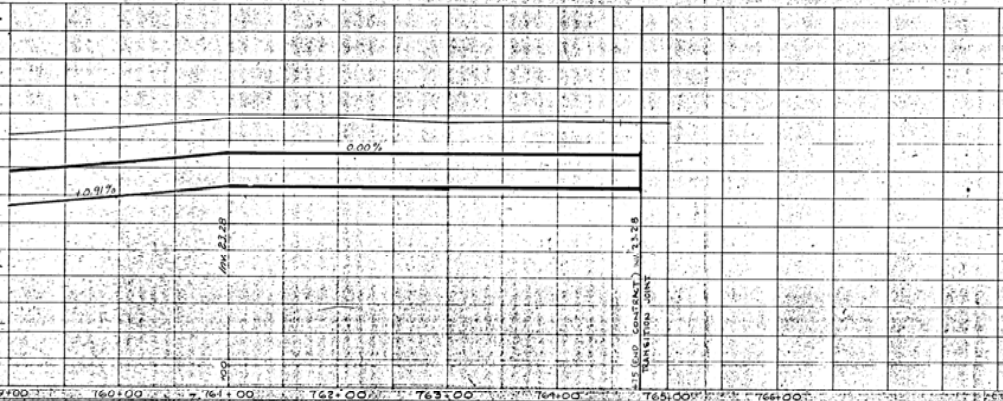
Sheet No. 1593-00

Section 5 R18E T39S

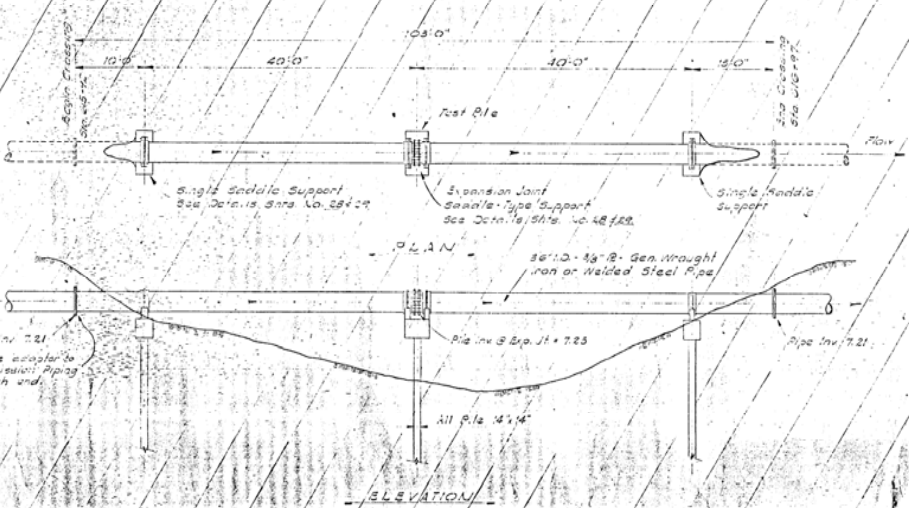


Note: Contractor shall coordinate testing of 36" R.C.P. with Contractor installing 36" Ductile Iron pipe.

Section 5 R18E T39S

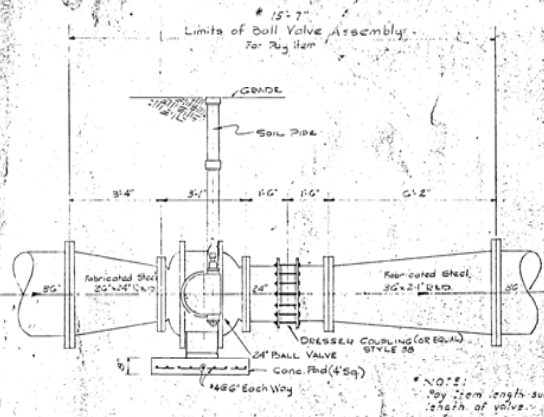


NOT PART OF THIS CONTRACT



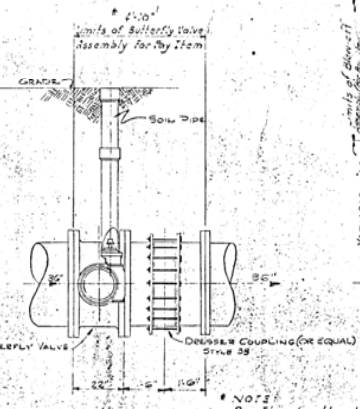
MORGAN - JOHNSON RD.
BRIDGE-TYPE CANAL CROSSING
Scale: 1/8" = 1'-0"

1.	5/15/85	REVISED INSPECTION MANHOLE	J.W.
2.	7/14/85	RELOCATED LINE TO SOUTH OF PAVE.	A.
NO.	DATE	DESCRIPTION	BY
REVISIONS			
RUSSELL & AXON, INC. CONSULTING ENGINEERS DAYTONA BEACH, FLA. ST. LOU.			
WATER WORKS PROJECT TRANSMISSION MAIN PART H			
MANATEE COUNTY, FLA. DESIGNED BY: FILE NO. 6353-3-26-X-H DRAWN BY: G.W.C. SHEET CHECKED BY: A.V.H. No. 26 X-H OF 13 SHEETS DATE: 5-1-85 SCALE: 1/8" = 1'-0"			
16-01			



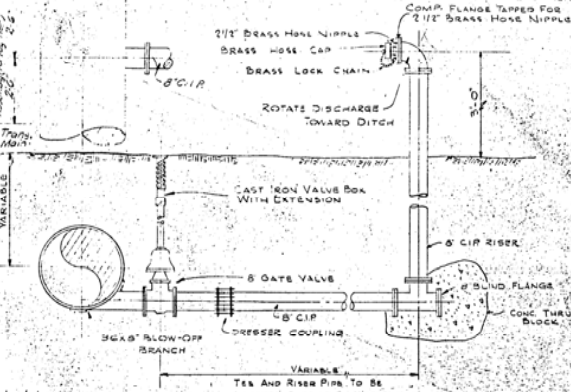
BALL VALVE

Scale: 1/2" = 1'-0"



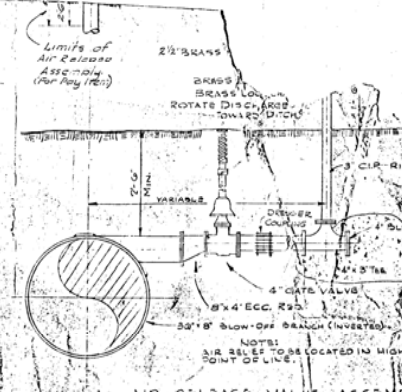
BUTTERFLY VALVE

TYPICAL LINE VALVE DETAILS



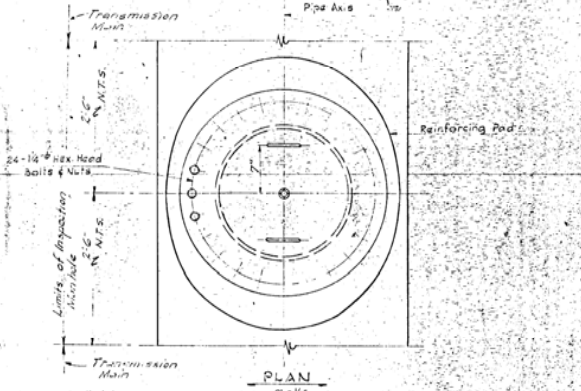
BLOW-OFF ASSEMBLY

Scale: 1/2" = 1'-0"

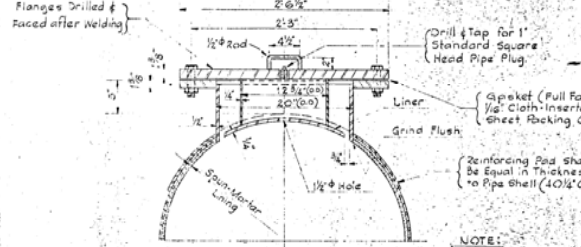


AIR-RELEASE VALVE ASSEMBLY

Scale: 1/2" = 1'-0"



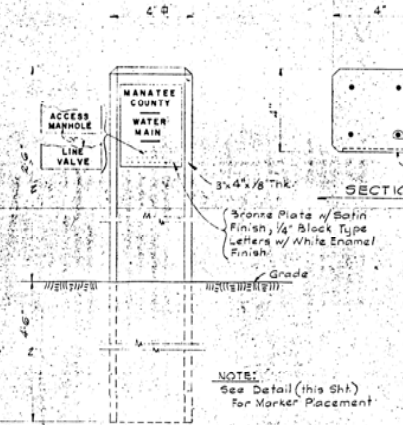
PLAN



SECTION

ACCESS MANHOLE DETAIL

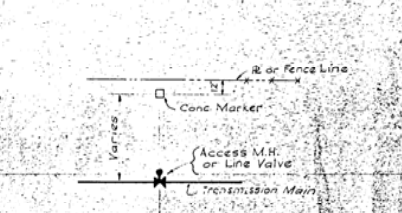
Scale: 1/2" = 1'-0"



SECTION

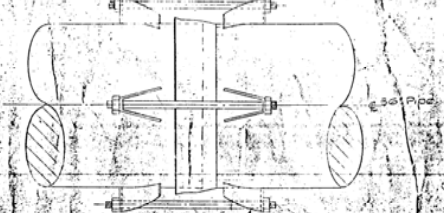
CONCRETE IDENTIFICATION MARKER

(No scale)



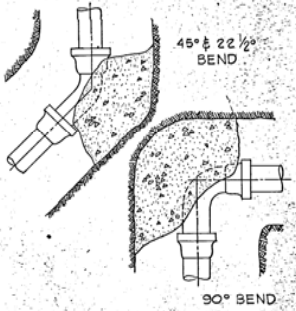
TYPICAL MARKER PLACEMENT

(No Scale)



TYPICAL HARNESS JOINT DETAIL

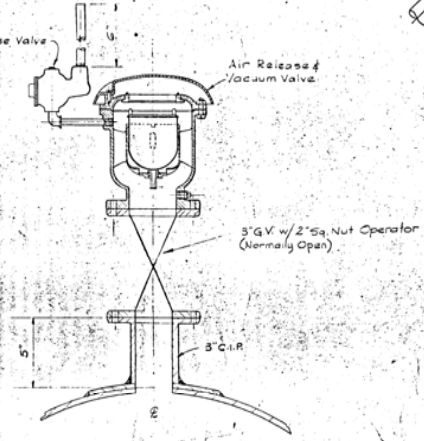
Scale: 1" = 1'-0"



90° BEND

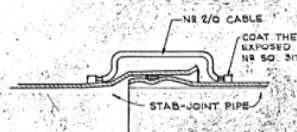
THRUST BLOCK SIZES							
PIPE DIA. (in.)	30° BEND	45° BEND	60° BEND	90° BEND	120° BEND	150° BEND	180° BEND
36	96	92.0	51	170	27	5.7	

NOTE: PIPE MFR. SHALL PROVIDE SHOP DRAWINGS OF PROPOSED METHOD OF HARNESING JOINTS, WHERE PROPER SOIL CONDITIONS DO NOT EXIST. THE NUMBER OF JOINTS REQUIRED FOR ADEQUATE ANCHORAGE SHALL BE INDICATED BY PIPE MFR.



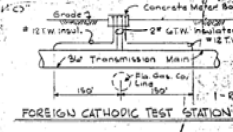
COMBINATION AIR RELEASE & VACUUM VALVE ASSEMBLY

(1-2)

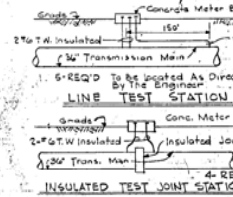


BONDING JOINT

NOT TO SCALE



FOREIGN CATHODIC TEST STATION



INSULATED TEST JOINT STATION

NOT TO SCALE

NO.	DATE	DESCRIPTION	REVISIONS

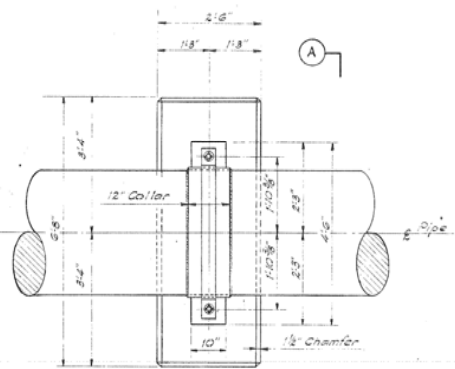
RUSSELL & AXON, INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

WATER WORKS PROJECT
STANDARD DETAILS
PART H

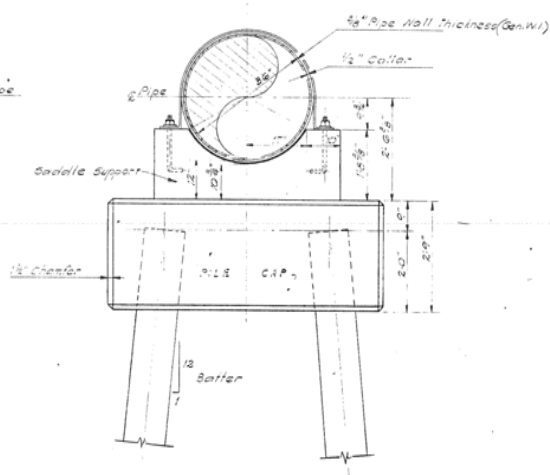
MANATEE COUNTY
DESIGNED BY: J.W.C.
DRAWN BY: J.W.C.
CHECKED BY: J.W.C.

FILE NO: 6353-3-27-V-H
SHEET: 27
NO. 27 V-H

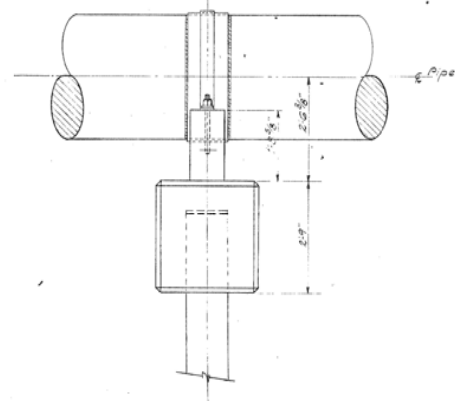
DATE: 16-07



PLAN
Scale: 3/4" = 1'-0"

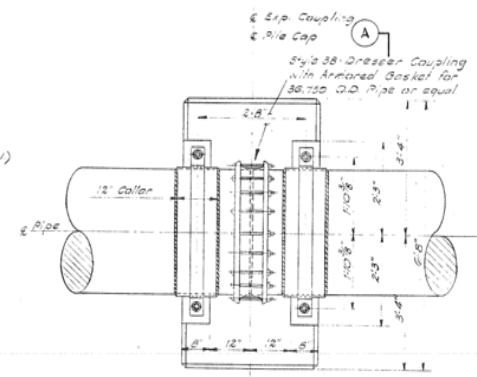


SECTIONAL VIEW (A)
Scale: 3/4" = 1'-0"

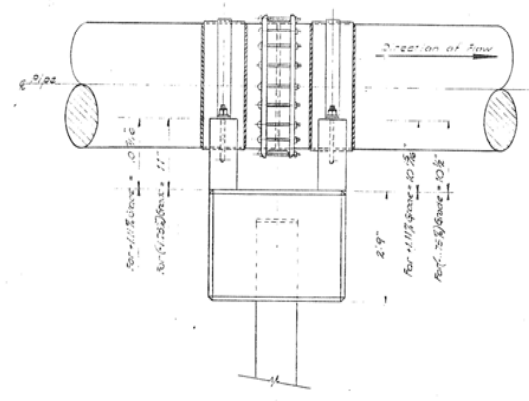


ELEVATION
Scale: 3/4" = 1'-0"

SINGLE SADDLE SUPPORT

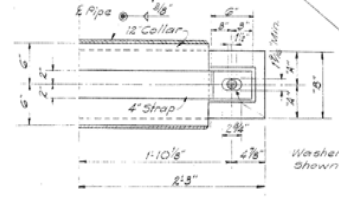
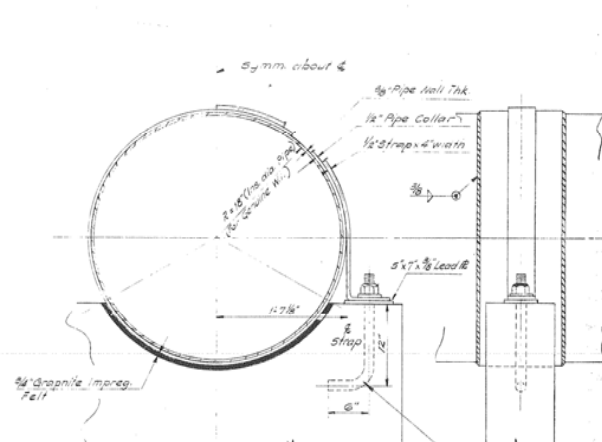


PLAN
Scale: 3/4" = 1'-0"



ELEVATION
Scale: 3/4" = 1'-0"

EXPANSION JOINT SUPPORT

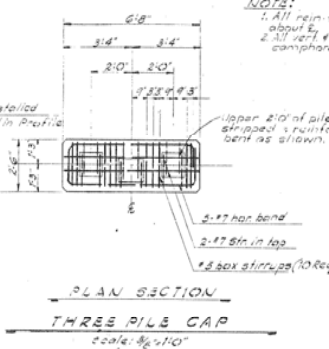
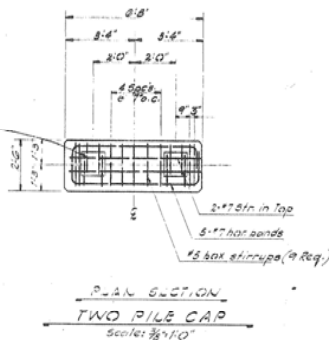
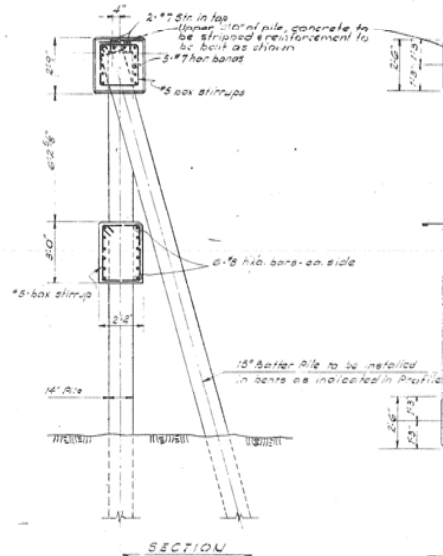
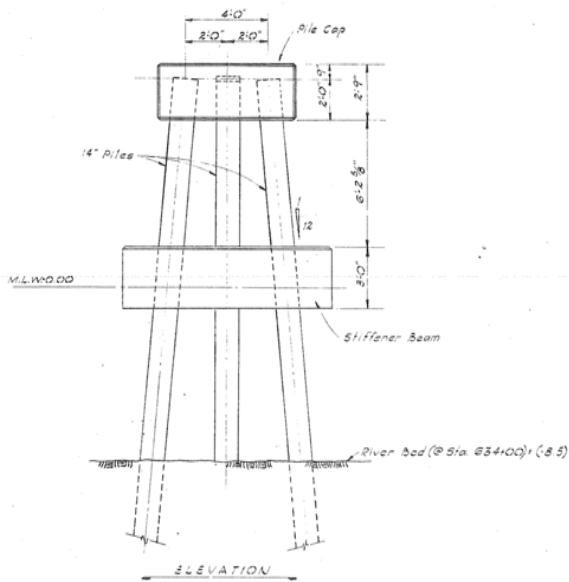


Type Saddle	4"	6"
Single	3'	10'
Expansion Joint	4'	8'

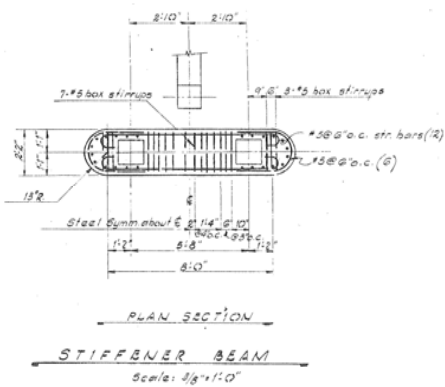
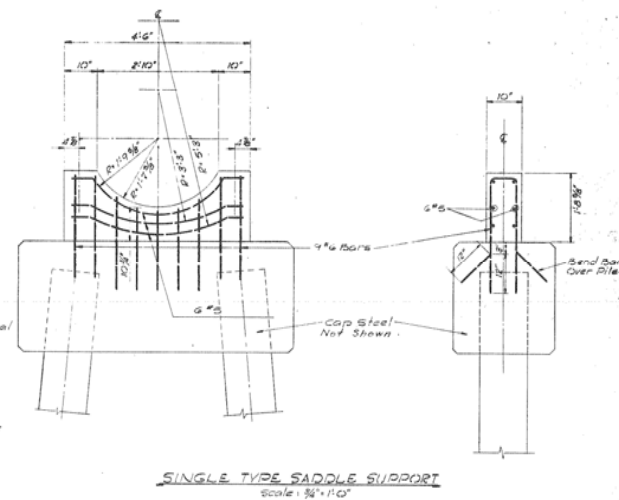
STRAP & FASTENER DETAIL
Scale: 1/2" = 1'-0"

Note: Details subject to change to meet type of pipe selected. Contractor shall provide details according to...

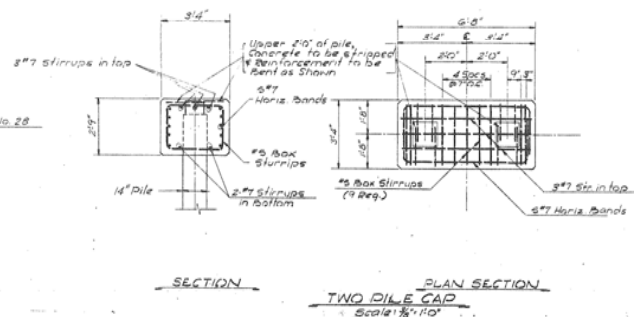
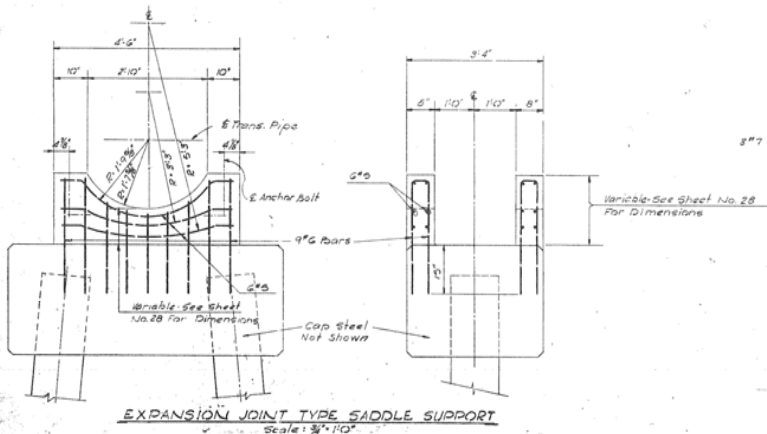
NO.	DATE	DESCRIPTION	REVISION
RUSSELL & AXON • INC. • CONSULTING ENGINEERS DAYTONA BEACH, FLA.			
WATER WORKS PROJECT RIVER & CANAL CROSSING DETAILS (MECH) MANATEE COUNTY, PART H			
DESIGNED BY	G.W.C.	FILE NO.	6353-3-28-V-H
DRAWN BY	B. V. G. / H.	SHEET	NO. 28
CHECKED BY	P.M.	DATE	07-29
DATE	7-25	SCALE	AS SHOWN



NOTES:
1. All re-in steel symmetrical about E.
2. All vert. & horiz. corners chamfered 1/2"



SINGLE SADDLE-TYPE SUPPORT



EXPANSION JOINT SADDLE-TYPE SUPPORT

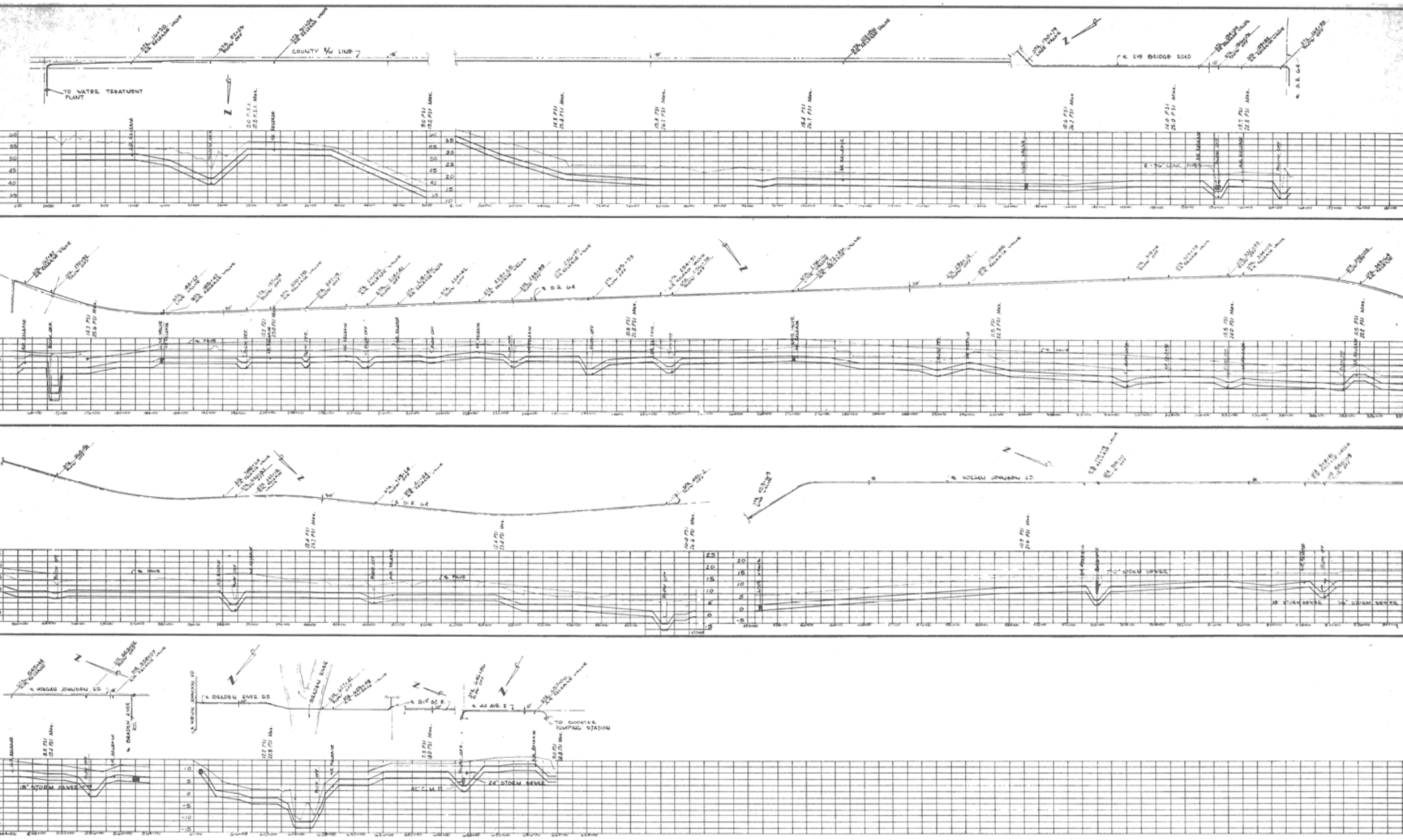
NO.	DATE	DESCRIPTION	REVISION

RUSSELL & AXON - INC.
CONSULTING ENGINEERS
DAYTONA BEACH, FLA.

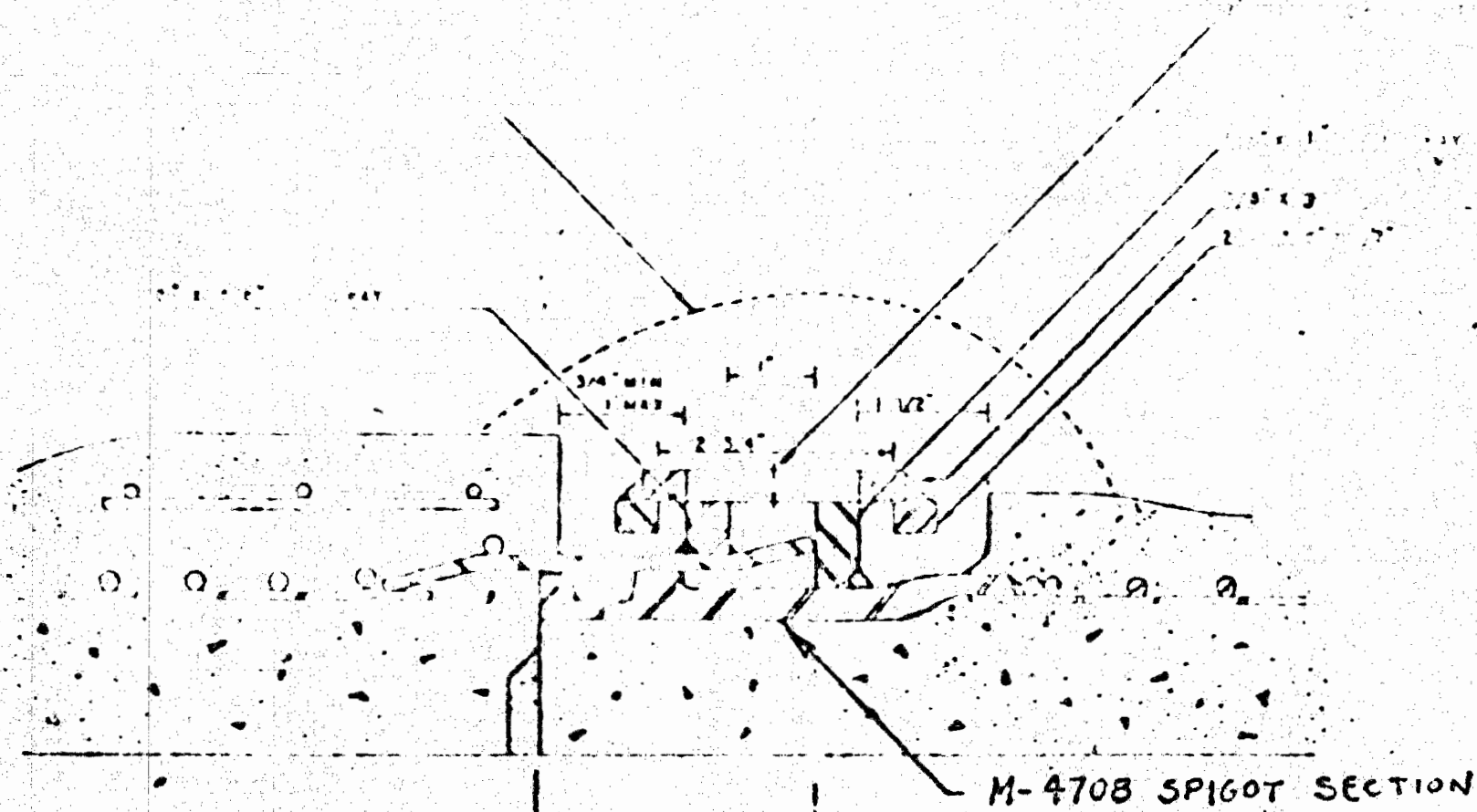
WATER WORKS PROJECT
RIVER & CANAL CROSSING DETAILS
(STRUCTURAL)
PART H

MANATEE COUNTY, FLA.

DESIGNED BY: G.W.C. FILE NO.: 6353-3-29-V-H
DRAWN BY: L.F. BOVIELL SHEET NO. 29 OF 29
CHECKED BY: P.M. SCALE: AS SHOWN
DATE: 2-65



NO.	DATE	DESCRIPTION
REVISIONS		
RUSSELL & AXON Consulting Engineers, Incorporated		
DAYTONA BEACH, FLA. ST. L.		
WATER WORKS PROJECT 36" TRANSMISSION MAIN PART "H"		
MINUTE COUNTY		FLORIDA
DESIGNED BY	FILE NO.	SE
F. J. L.	6555-5	
CHECKED BY	SHEET	
	OF 1	No. 1 SHEETS
DATE	SCALE:	
Aug. 67	1" = 15' VERT.	



M-4708 SPIGOT SECTION

3 1/4" FOR 16, 18, 20, 22, 24, 26, 28, 30
 3 1/8" FOR 32

NOTE

SEE DRAWING C-61-A FOR JOINT ASSEMBLY PROCEDURE

PRICE BROTHERS CO. DAYTON, OHIO	
Manatee County, Florida Contract V Water Works Project Part II	
CLAMPED JOINT ASSEMBLY 16" THRU 36" SP-B	
SCALE HALF	DATE
DRAWN BY	DRAWING NO.
APPROVED BY	0013596A

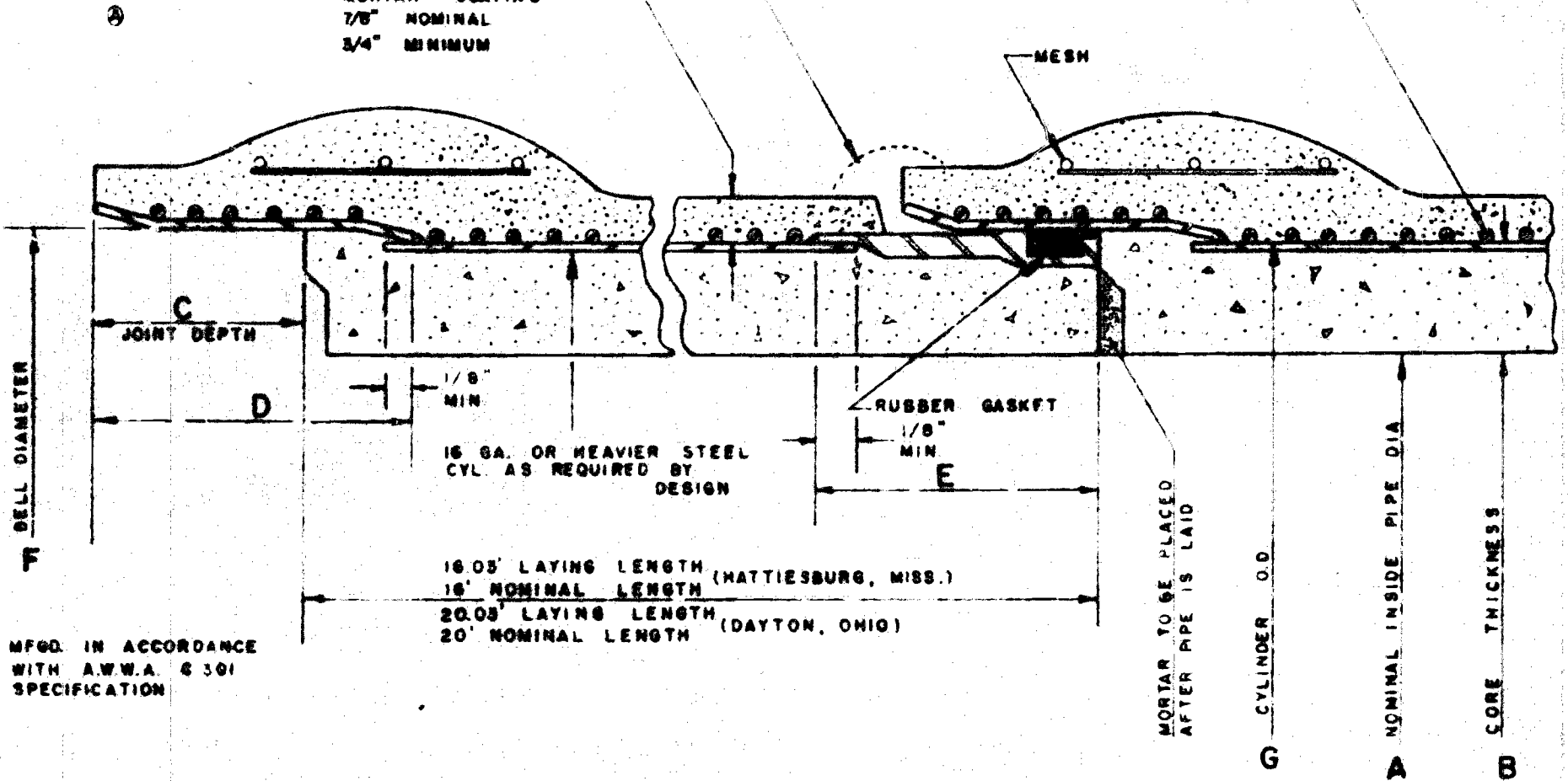
PROJECT NUMBER
217-651-A

JOINT RINGS METALIZED
TO .002" MINIMUM
REQUIRED THICKNESS

MORTAR COATING
7/8" NOMINAL
3/4" MINIMUM

MORTAR TO BE PLACED
AFTER PIPE IS LAID

HIGH TENSILE NO. 8 WIRE
REINFORCEMENT, SPIRALLY WOUND.
PITCH AS REQUIRED BY DESIGN.



MFGD. IN ACCORDANCE
WITH A.W.W.A. C 301
SPECIFICATION

16.03' LAYING LENGTH (HATTIESBURG, MISS.)
 16' NOMINAL LENGTH
 20.03' LAYING LENGTH (DAYTON, OHIO)
 20' NOMINAL LENGTH

A 19-64 CM 3-16-64

A	B	C	D	E	F	G	WEIGHT #/16'
24	1 1/2"	3 1/4"	5"	4 1/2"	27 1/2"	27"	3808
30	1 7/8"	3 1/4"	5"	4 1/2"	34 1/4"	33 3/4"	5884
36	2 1/4"	3 3/8"	5"	4 1/2"	41"	40 1/2"	7616
42	2 5/8"	3 5/4"	5 1/2"	5 1/2"	47 1/4"	47 1/4"	9488
48	3"	3 7/8"	5 1/2"	5 1/2"	54"	54"	12144

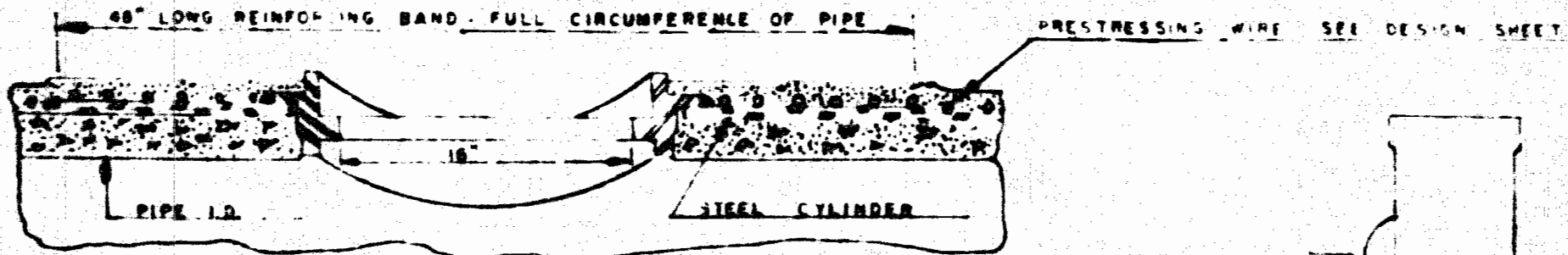
PRICE BROTHERS, CO.
DAYTON, OHIO

Manatee County, Florida
 Contract V
 Water Works Project Part II
 TYPICAL JOINT 24" THRU 48"
 SP-5, PRESTRESSED

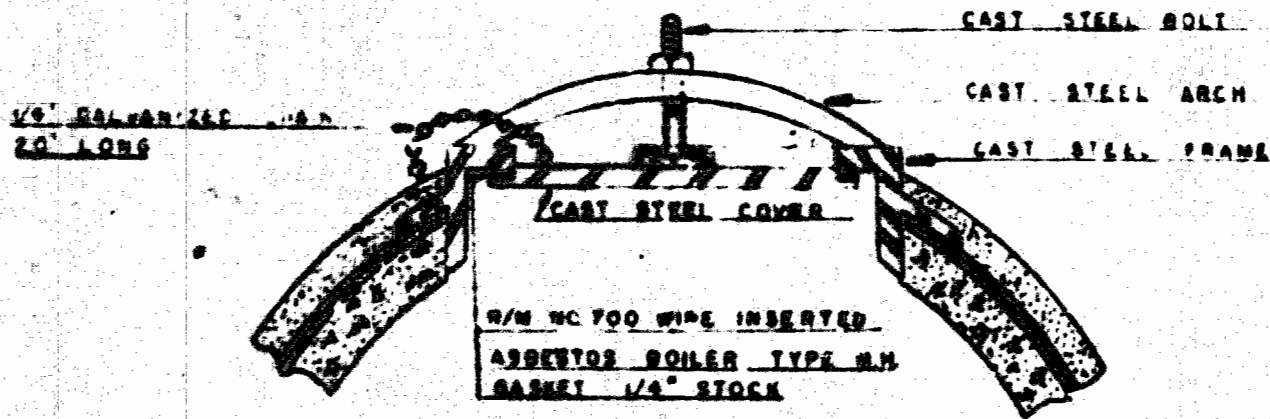
PROJECT NO
217.65H-3

DRAWING NO.
D-950-A

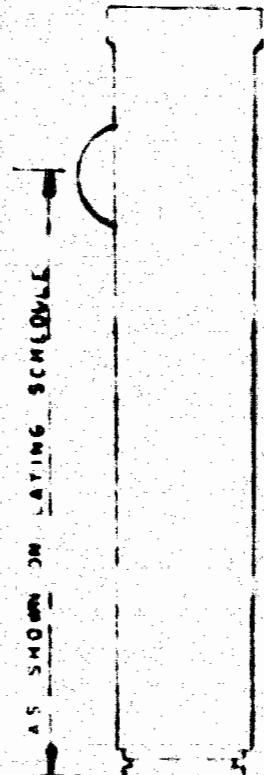
7-13-59



LONGITUDINAL SECTION



CROSS SECTION



NOTES:

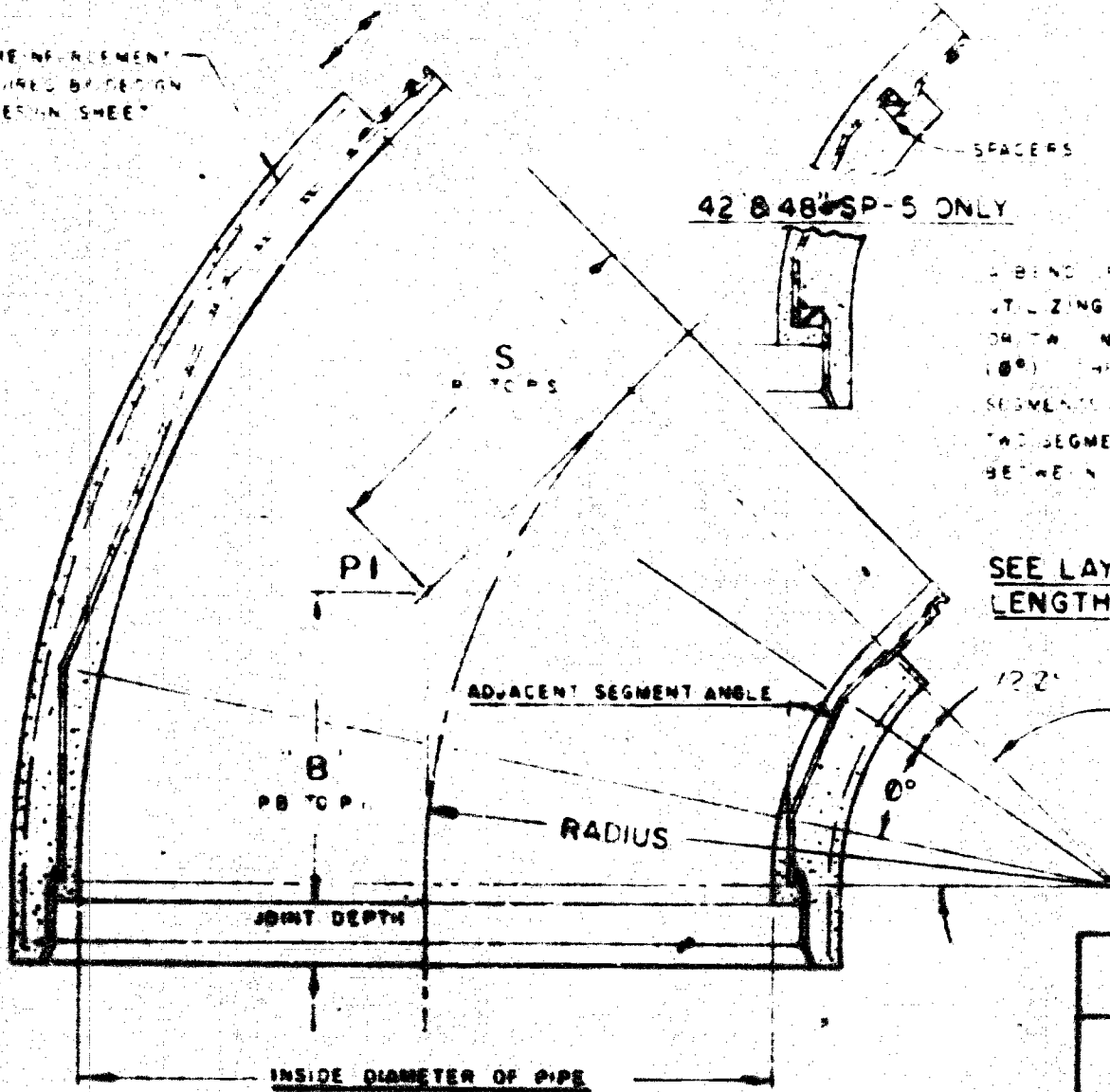
- 1. ALL WELDS FULL & CONTINUOUS
- 2. ALL EXPOSED STEEL COATED W/DAY'S SHOP COAT. BLACK

PRICE BROTHERS CO DAYTON, OHIO	
Manatee County, Florida Contract V Water Works Project Part H	
18" DIA BOILER TYPE ACCESS MANHOLE IN 36" PIPE	
SCALE NONE	DATE: 2-29-58
PROJECT DWG 217.652-B	DRAWN BY C.A.V. DRAWING NO C 804-A
APP BY	

STEEL REINFORCEMENT
AS REQUIRED BY DESIGN
(SEE LAYING SHEET)

SPACERS

42 @ 48" SP-5 ONLY



A BEND OF ANY DEGREE CAN BE MANUFACTURED
UTILIZING COMBINATIONS OF TWO END SEGMENTS (2 2°)
OR TWO END SEGMENTS & ONE OR MORE MIDDLE SEGMENTS
(8°). THE DEFLECTION ANGLE BETWEEN ADJACENT
SEGMENTS MAY VARY 22, 24 OR LESS. IF MORE THAN
TWO SEGMENTS ARE UTILIZED THE DEFLECTION ANGLES
BETWEEN ALL ADJACENT SEGMENTS ARE EQUAL.

SEE LAYING SCHEDULE FOR LAYING
LENGTHS OF ELBOWS.

122°
12° DEFLECTION ANGLE

PRICE BROTHERS CO.
DAYTON, OHIO

Manatee County, Florida
Contract V
Water Works Project Part H

TYPICAL ELBOW 16" THRU 60"

DRAWN A. S. ORSZY

DATE 3/29/62

PROJECT NUMBER

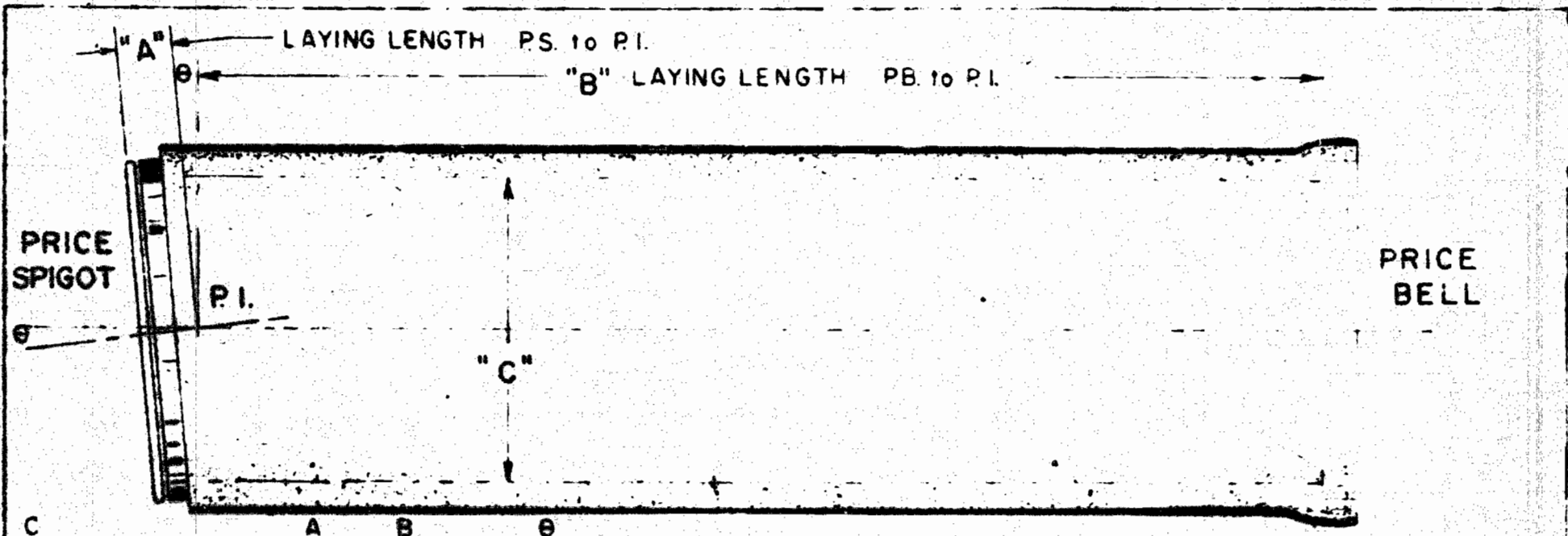
DRAWING NO.

217.65H-8

G-479-A

NOTE:

1. ALL WELDS FULL & CONTINUOUS.
2. BEH WELDED INSIDE & OUTSIDE.
3. CONCRETE LAMP PLACED.
4. EXPOSED STEEL COATED WITH DAVIES
SHOP COAT BLACK.

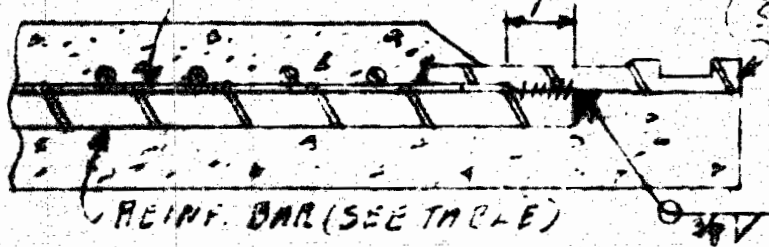


SIZE	TYPE	LAYING LENGTH		DEFLECTION	
		PS.-PI.	PI.-PB.	DEGREE	%
16"	HALF BEVEL * BEVEL	.33	15.65	3° 52'	6.757
18"	HALF BEVEL * BEVEL	.33	15.64	4° 08'	7.229
20"	HALF BEVEL BEVEL	.33	15.66	2° 11'	3.804
		.33	15.63	4° 21'	7.009
24"	HALF BEVEL BEVEL	.33	15.66	2° 05'	3.636
		.38	15.57	4° 10'	7.273
30"	HALF BEVEL BEVEL	.38	15.60	2° 05'	3.650
		.38	15.55	4° 10'	7.299
36"	HALF BEVEL BEVEL	.38	15.59	2° 06'	3.659
		.38	15.53	4° 11'	7.317
42"	HALF BEVEL BEVEL	.46	15.50	2° 07'	3.704
		.46	15.42	4° 14'	7.407
48"	HALF BEVEL BEVEL	.46	15.49	2° 07'	3.704
		.46	15.40	4° 14'	7.407

* NOT MADE

PRICE BROTHERS CO. DAYTON, OHIO	
TYPICAL BEVEL & HALF BEVEL SP-5	
Manatee County, Florida Contract V Water Works Project Part H	
REVISED 10/22/59 PROJ. DWG. NO. 217.65H-7	DRAWN BY T. SALTS B780-A

10 GA CYL



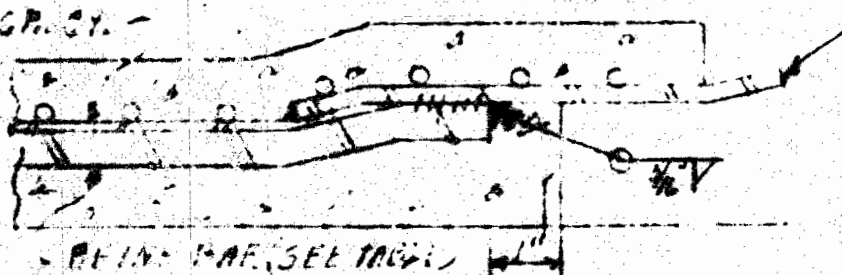
STD SPIGOT (14 3/4\"/>

10 GA CYL



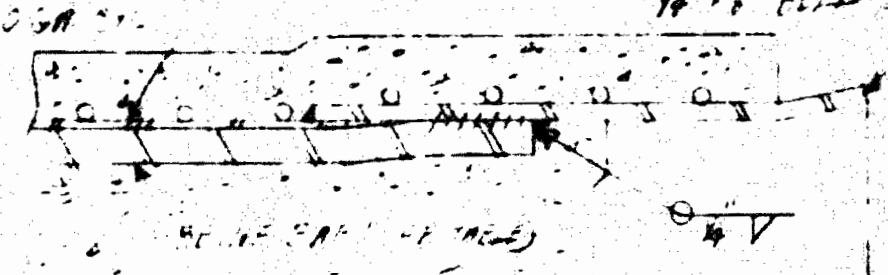
STD SPIGOT (14 7/8\"/>

10 GA. CYL



1 3/16\"/>

10 GA. CYL



1 1/8\"/>

DESIGN "A"

DESIGN "B"

NOTES

1. WELD ON SIDES OF REINF. BARS BACK TO NEEL OF SPIGOT OR BELL
2. USE STD BELL DEPTH
3. WIDE BELLS TO BE USED AS SHOWN
4. LETH OF BARS TO BE SUCH AS TO HAVE WELDED ENDS AS SHOWN

SIZE & QUANTITIES OF BARS SHOWN TO REPLACE THE LONGITUDINAL STEEL AREA OF A 3/16\"/>

SIZE	DESIGN	BAR SIZE	NO.	SPACING
24"	A	1/2" x 3/8"	16	5 1/8"
30"	A	5/8" x 3/8"	17	6 1/8"
36"	A	3/4" x 3/8"	16	8"
42"	B	3/4" x 1/2"	19	7 3/4"
48"	B	7/8" x 1/2"	22	7 3/4"

USED ON

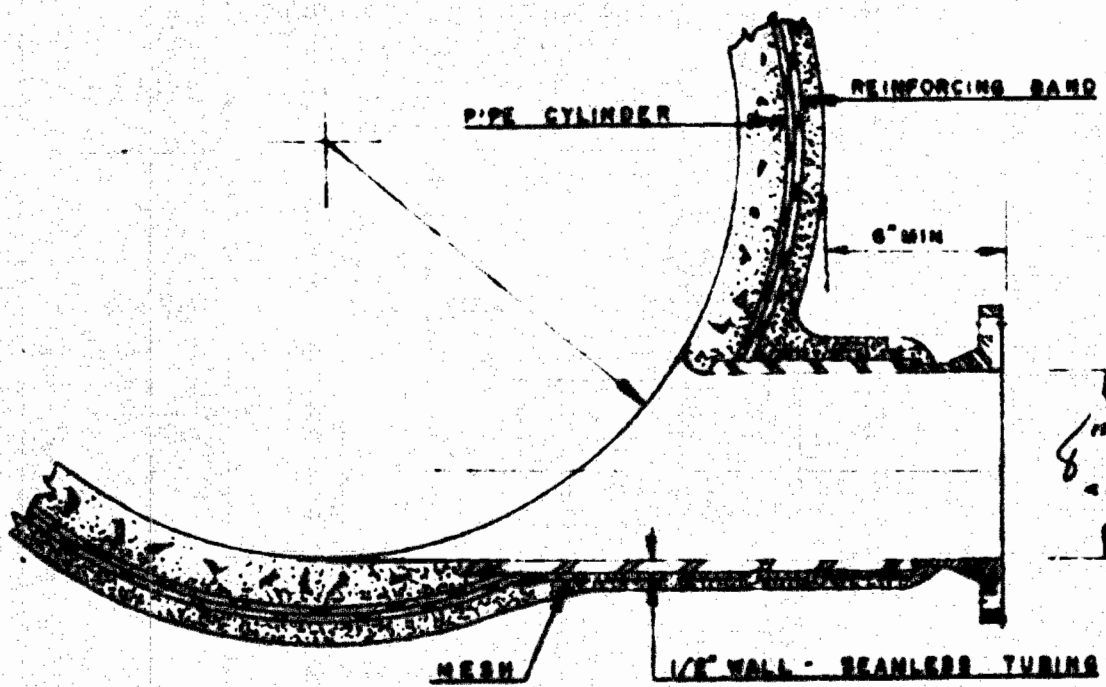
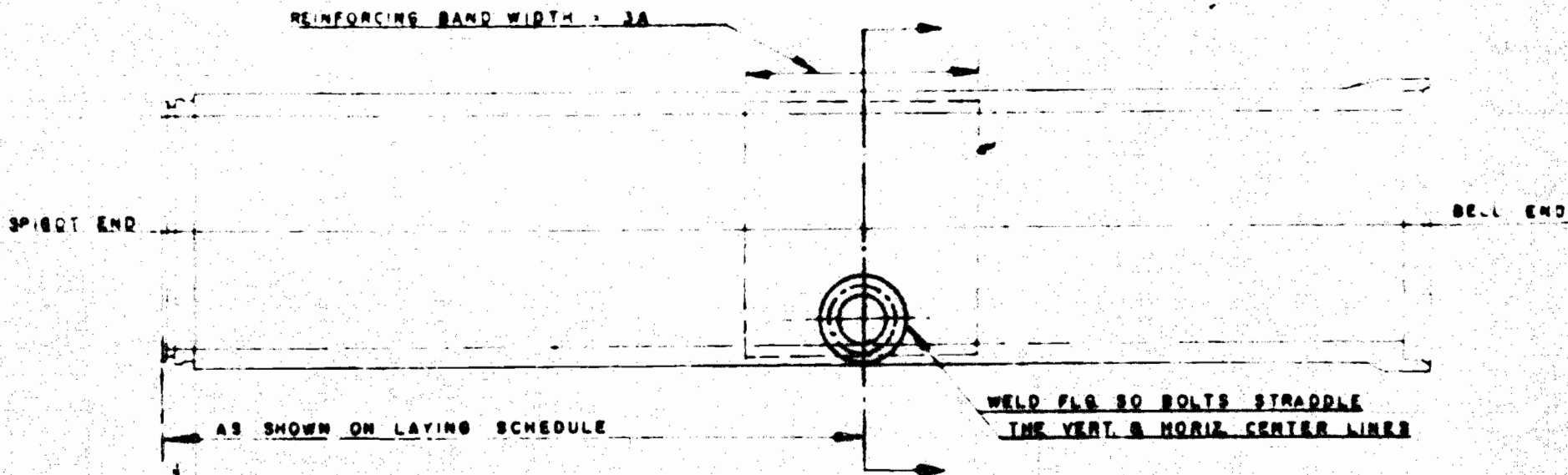
B			
A	SIDE VIEW	DATE	1-2-60
BY	CHANGE NO.	BY	DATE

PRICE BROTHERS CO.
DAYTON, OHIO

Manatee County, Florida
Contract V
Water Works Project Part II

TYPICAL TIED PIPE BARS
24" - 48" SF-5

SCALE NONE	DATE 1-10-60	217.65H-6
DRAWN BPH	DRAWING NO 00013156A	
APPROVED		



NOTES:
 1. ALL WELDS FULL & CONTINUOUS.
 2. ALL EXPOSED STEEL COATED WITH DAVIES SHOP COAT, BLACK

AS VIEWED FROM SPIGOT END:
 RIGHT HAND AS SHOWN
 LEFT HAND ON OPPOSITE SIDE

REVISED 2-5-6

PRICE BROTHERS CO
 DAYTON, OHIO

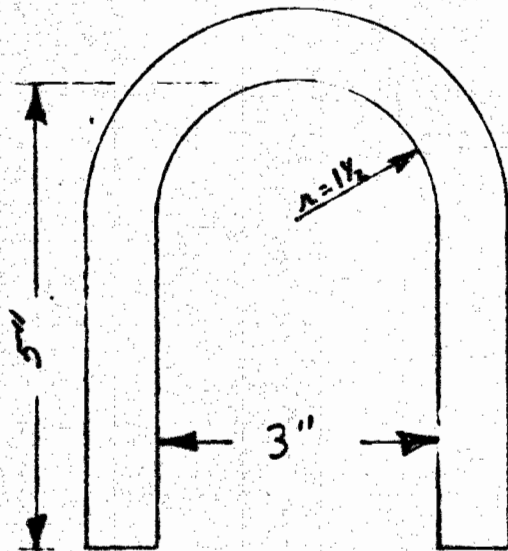
Manatee County, Florida
 Contract V
 Water Works Project Part H

TANGENT BLOW OFF DETAILS

SCALE: NONE DATE: 20-50
 PROJECT DWG DRAWN BY: DRAWING NO.
 217.65H-10 C.A.V. C 810-A

NOTES

All exposed steel coated w/ DAVIES SHOP COAT, Black Mesh & hand placed concrete inside & outside



HANDLE
(2) Req'd.

Locate handles on opposite sides

3/4" ϕ ROD



36" HARNESS

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED
PLUG

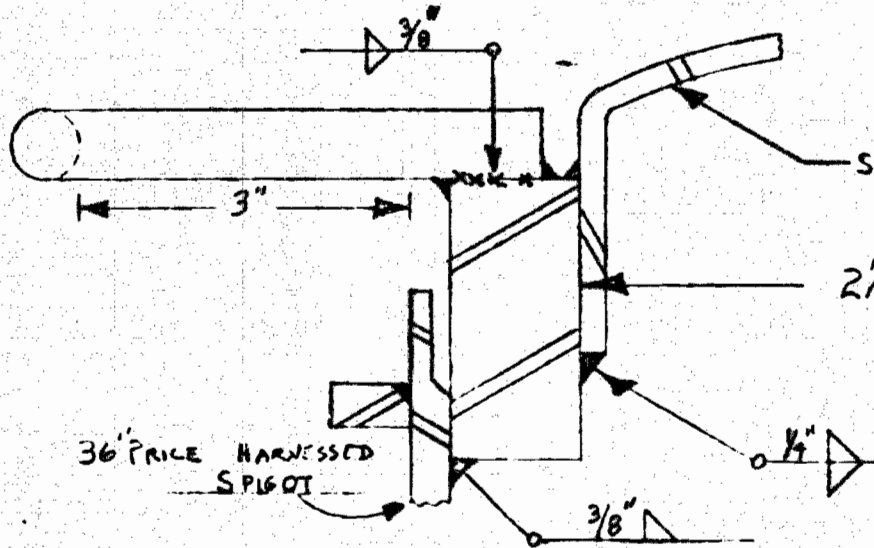
Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract nor shall it relieve him of any error which may exist.

RUSSELL & AXON, Consulting Engineers

Date 10/20/65

STD. 36" DISHED BUSH HEAD

2 1/2" X 3" X 24" I.D. BAR



PRICE BROTHERS CO.
DAYTON, OHIO

MANAFEE COUNTY FLORIDA
WATER WORKS CONTRACT V
PART H

SCALE NONE

DATE

DRAWN D.F.S.

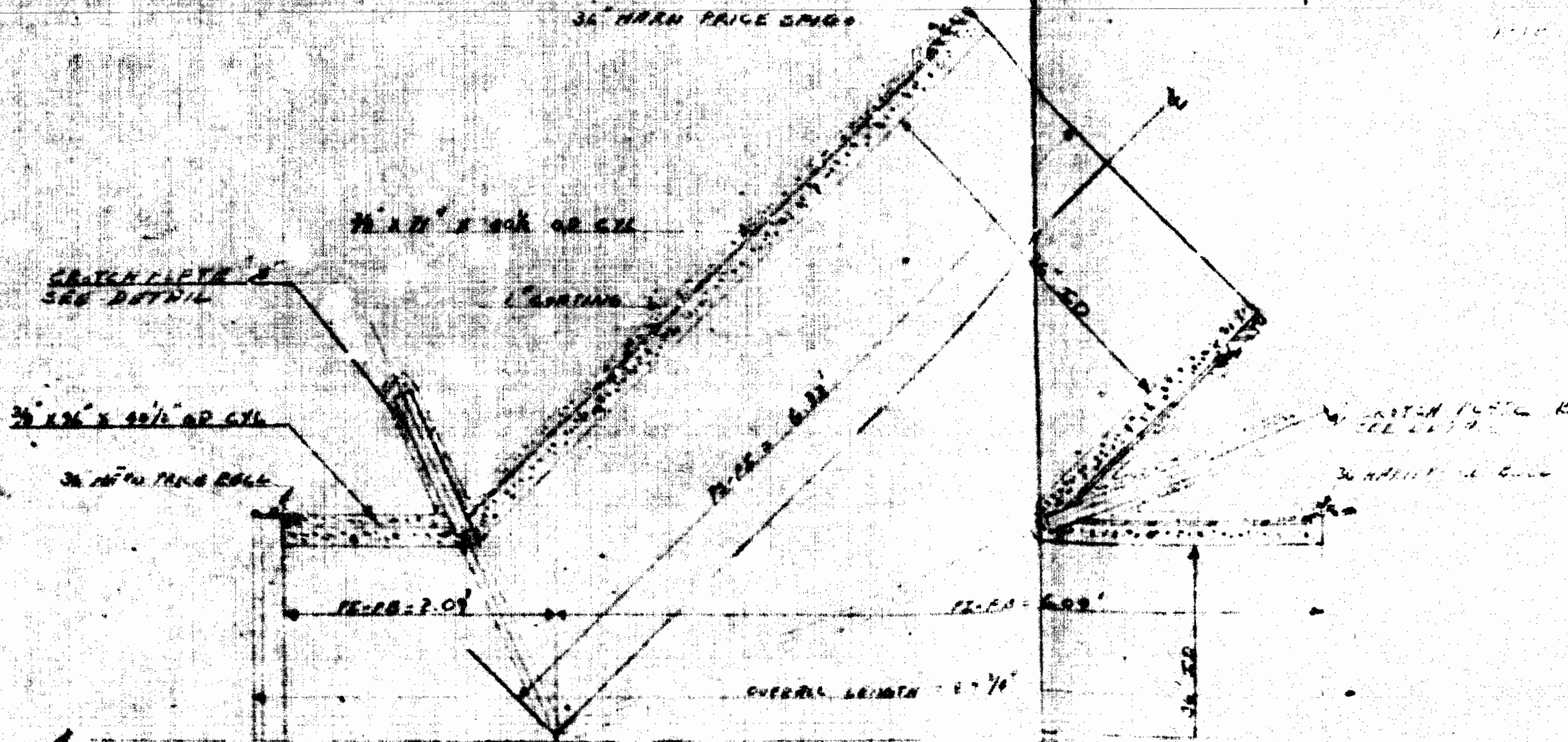
DRAWING NO.

APPROVED

217.65H-11

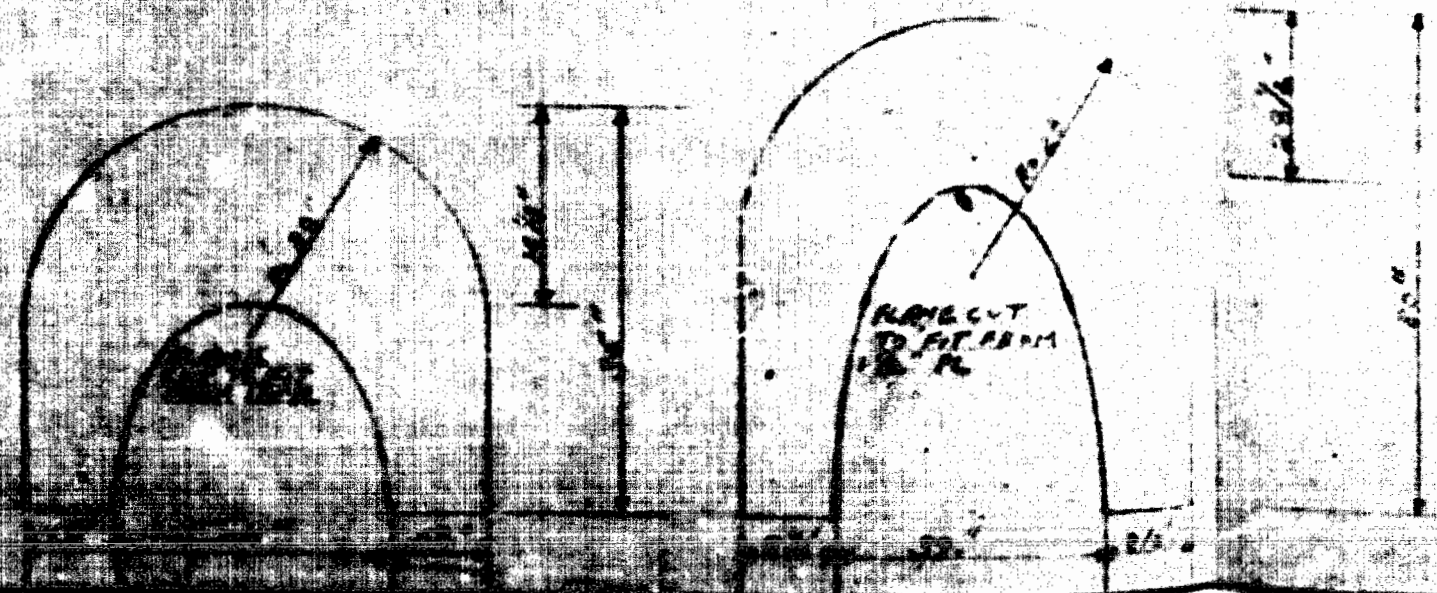
36" HARD PBX 7BX75 15° WYE
 F-23

36" HARD PRICE SPAG



CATCH PLATE 'A'

CATCH PLATE 'B'




ITEM	QUANT.	DESCRIPTION

APPROVED
 CONSTRUCTION DRAWING
 SUBJECT TO REVISIONS INDICATED

Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract nor shall it relieve him of any error which may exist.

RUSSELL & AXON, Consulting Engineers

By  Date 11/10/55

SYM	CHANGE NO.	BY	DATE
PRICE BROTHERS CO. DAYTON OHIO			
MANATEE COUNTY FLORIDA WATER WORKS CONTRACT V PART H			
SCALE NONE	DATE 11/10/55		
DRAWN DATE	DRAWING NO.		
APPROVED	21745H-12		

X NO. 217.658

Price Brothers Company
LAYING SCHEDULE

PAGE 1 PAGE

PROJECT Manatee County, Florida, Braden River Crossing

DATE March 14, 1966
REVISED (1) 3-15-66 (2) 3-21-66
PREPARED BY J. C. McNEILSON

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	ELEVATION	ENTER LINE
		Begin laying at Station 0+00.00 on bank of Braden River							
		<u>36" SP-11 Class 200</u>					0+00.10	8.54	
2) X-15	1	Tied length tied B.E. only open jt. top @15.91 Shopweld B. E. to S. E. of X-16	16.03	16.03	.06	15.97	0+15.87		
X-16	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-15	16.03	16.03	.06	15.97	0+31.84		
X-17	1	Tied full bevel, L. S. bottom, tied B. E. only, open jt. top @15.91 Shopweld B. E. to S. E. of X-18	15.93	15.93	.00	15.93	0+47.77		
X-18	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-17	16.03	16.03	.00	16.03	0+63.80		
X-19	1	Tied half bevel, L. S. bottom, tied B.E. only, open jt. top @15.97 Shopweld B. E. to S. E. of X-20	15.99	15.99	.00	15.99	0+79.79		
X-20	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-19	16.03	16.03	.00	16.03	0+95.82		
X-21	1	Tied lgth., tied B. E. only open jt. bottom @16.03 Shopweld B. E. to S. E. of X-22	16.04	16.04	.00	16.04	1+11.85		
X-22	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-21	16.03	16.03	.00	16.03	1+27.89		

Fris Brothers Company
LAYING SCHEDULE

JOB NO. 217 5H-Unit V

PAGE 1 OF 1 PAGES

PROJECT Manatee County, Florida, Braden River Crossing

DATE March 14 1966

DESIGN See Below

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY FRIS BROS DRAWN BY FRIS BROS

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	FOR LAID LENGTH	GRADE	ELEVATION
		<u>Misc Materials Shipping List</u>						
	1	30# pail Sohio lube						
	26	36" laying gaskets (12 used for shop-ided joints, balanced shipped)						
	3	36" diapers						
(2)	26	1 1/4" x 2" subaqueous drew bolts						
(2)	52	Subaqueous tags						
(2)	52	5/8", 11 NC-2 x 1 1/4" hex head cap screws						

Revisions:

- (1) 3-15-66
Page 1, 2, and 3.
- (2) 3-21-66
Page 1 & MMSL

APPROVED
CONSTRUCTION DIVISION
MARCH 14 1966

J.P. *7/11/66*

*Elev. do not show min cover below river bottom.
Adj. elev to tie-in with profile on west side of river.*

MUNDY

Sheet 216

Price Brothers Company

LAYING SCHEDULE

NO. 21-65H-Unit IV

PROJECT Manatee Co., Florida Contract V, Part H

DATE March 21, 1966

REVISED See Below

PREPARED BY M. K. Wheeler

DO NOT VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

NO.	DESCRIPTION	VERT. LAY LENGTH	TOTAL LAY LENGTH	SLOPE CORR.	HORIZ. LAY LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	Misc. Materials Shipping List								
974	36" laying gaskets								
823	36" diapers								
151	36" wide diapers								
148	36" horn. clamp ring assy.								
1	36" nite plug								
2	Internal feeler gauges								
2	Joint stops								
25	25# pails Price lube								
	NOTE: F-88, S-92, S-100, S-106 and F-109 will not be used on this project.								

Revisions:
 (1) 3-26-66
 Complete schedule
 (2) 3-29-66
 Page 2. Added page 2a.

Price Brothers Company
LAYING SCHEDULE

NO. 17.65H-Unit IV

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		Begin laying at cut-in tee (X-1) - Lay West					611+26.00	-5.40		9.50
		<u>36" class 200 SP-5</u>								
		Branch P. I. to harn. P. B.	2.88	2.88		2.88	611+28.88	-5.40	-.16	9.34
H 16	4	Harn. lgths.	16.03	64.12	.09	64.03	611+92.91	-5.40	-3.46	5.88
H 16	1	Harn. lgth., open jt. bottom @16.03	16.05	16.05	.01	16.04	612+08.95	-4.18	-.67	5.21
H 16	1	Harn. lgth., open jt. bottom @16.03 Clamp S. E. only	16.05	16.05	.01	16.04	612+24.99	-3.00	-.48	4.73
	1	Lgth., open jt. bottom	16.03	16.03		16.03	612+41.02	-2.82	-.45	4.28
	6	Lgths.	16.03	96.18	.04	96.14	613+37.16	-2.82	-2.72	1.56
	1	Lgth., open jt. bottom @16.03	16.05	16.05		16.05	613+53.21	-1.60	-.26	1.30
	1	Lgth., open jt. bottom @16.03	16.05	16.05		16.05	613+69.26	-.57	-.09	1.21
	17	Lgths.	16.03	272.51		272.51	616+41.77	.57	-1.55	-.34
	1	Lgth., open jt. bottom @16.03	16.04	16.04		16.04	616+57.81	-1.10	-.17	-.51
	8	Lgths.	16.03	128.24	.01	128.23	617+86.04	-1.10	-1.41	-1.92
	1	Lgth., open jt. bottom @16.03	16.04	16.04		16.04	618+02.08	-.40	-.08	-2.00
	1	Lgth., open jt. bottom @16.03	16.04	16.04		16.04	618+18.12	.00		-2.00

LAYING SCHEDULE

PROJECT Manatee County, Florida, Contract V, Part H

DATE March 21, 1966

REVISED (2) 3-29-66

VARV JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	LOOSE CORR.	NET LAID LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		36" SP-5 Class 200					619+18.12	.00		2.00
	8	Lengths	16.03	128.24		128.24	619+46.36	.00		-2.00
H-16	1	Harn. length, clamp B. E. only	16.03	16.03		16.03	619+62.39	.00		-2.00
H-16	1	Harn. length	16.03	16.03		16.03	619+78.42	.00		-2.00
H-110	1	Harn. 11°-15' elbow, I S. left								
		P.S. to P.I.	.77	.77		.77	619+79.19	.00		-2.00
		P.I. to P.B.	.41	.41		.41	619+79.60	.00		-2.00
	3	Harn. lengths	16.03	48.09		48.09	620+27.69	.00		2.00
H-111	1	Harn. 11°-15' elbow, L. S. left								
		P.S. to P.I.	.77	.77		.77	620+28.46	.00		-2.00
		P.I. to P.B.	.41	.41		.41	620+28.87	.00		-2.00
H-16	1	Harn. length	16.03	16.03		16.03	620+44.90	.00		-2.00
H-16	1	Harn. length, clamp S. E. only	16.03	16.03		16.03	620+60.93	.00		-2.00
	5	Lengths	16.03	80.15		80.15	621+41.08	.00		-2.00
H-16	1	Harn. length, clamp B. E. only	16.04	16.04		16.04	621+57.12	-.60	-.10	-2.10
		open jt. top @16.03								
H-16	1	Harn. length, open jt. top @16.03	16.05	16.05		16.05	621+73.17	-1.69	-.27	-2.37

NO. 217.65H-Unit IV

Price Brothers Company
LAYING SCHEDULE

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PROJECT Manatee County, Florida, Contract V, Part H

DATE March 29, 1966

REVISED (2) 3-29-66

BE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	NET LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" SP-5 Class 200</u>					621+73.17	-1.69		-2.37
112	1	Harn. 22°-30' elbow, L. S. right								
		P.S. to P.I.	1.08	1.08		1.08	621+74.25	-1.69	-.02	-2.39
		P.I. to P.B.	.72	.72		.72	621+74.97	-1.69	-.01	-2.40
1-16	1	Harn. length	16.03	16.03		16.03	621+91.00	-1.69	-.27	-2.67
M 16	1	Harn. length, clamp S. E. only	16.03	16.03		16.03	622+07.03	-1.69	-.27	-2.94
	4	Lengths	16.03	64.12	.01	64.11	622+71.14	-1.69	-1.07	-4.01
	1	Length, open jt. bottom @16.03	16.04	16.04		16.04	622+87.18	-.83	-.12	-4.13
	1	Full Level, L. S. top, open jt. bottom @15.91	15.92	15.92	.05	15.87	623+03.05	-7.23	-1.15	-5.28
S-89	1	Short length, open jt. top	11.10	11.10	.04	11.06	623+14.11	-7.63	-.86	-6.14

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M.K. Wheeler

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					623+14.11	-7.63		-6.14
S 115	1 Lgth., SP-5 spigot w/SP-11 bell end (Subaqueous) open jt. top @16.03	16.05	16.05	.06	15.99	623+30.10	-8.64	1.36	-7.50
	NOTE: <u>Now laying subaqueous pipe (Unit V)</u>								
	Continue laying at end of subaqueous pipe.					627+30.04	+7.91		-3.25
	<u>36" Class 200 SP-5</u>								
	1 Half bevel, L. S. top, open jt. bottom @15.97	15.98	15.98	.02	15.96	627+46.00	+4.64	+ .74	2.51
-114	1 Length, w/8" tan. flg. OL 2' fr. S.E. bottom left	16.03	16.03	.02	16.01	627+62.01	+4.64	+ .74	-1.77
	2 Lengths	16.03	32.06	.03	32.03	627+94.04	+4.64	+1.49	- .28
	1 Length, open jt. top @16.03	16.05	16.05	.01	16.04	628+10.08	+3.64	+ .58	+ .30
	1 Length, open jt. top @16.03	16.05	16.05		16.05	628+26.13	+2.50	+ .40	+ .70
	9 Lengths	16.03	144.27	.05	144.22	629+70.35	+2.50	+3.60	+4.30
	1 Length, open jt. top @16.03	16.04	16.04		16.04	629+86.39	+2.00	+ .32	+4.62
	1 Length, open jt. top	16.03	16.03		16.03	630+02.42	+1.80	+ .29	+4.91
	1 Length, open jt. top @16.03	16.04	16.04		16.04	630+18.46	+1.19	+ .19	+5.10

JOB NO. 217.65H-Unit IV

Price Brothers Company
LAYING SCHEDULE

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PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					630+18.46	+1.19		+5.10
	1	Lgth., open jt. top @16.03	16.05	16.05		16.05	630+34.51	.00		+5.10
	22	Lengths	16.03	352.66		352.66	633+87.17	.00		+5.10
	1	Length, open jt. bottom @16.03	16.04	16.04		16.04	634+03.21	+.45	+.07	+5.17
	1	Length, open jt. bottom @16.03	16.05	16.05		16.05	634+19.26	+1.41	+.23	+5.40
	14	Lengths	16.03	224.42	.02	224.40	636+43.66	+1.41	+3.17	+8.57
H-16	1	Harn. length, open jt. top @16.03 clamp B. E. only	16.04	16.04		16.04	636+59.70	+.81	+.13	+8.70
H-16	1	Harn. length, open jt. top @16.03	16.04	16.04		16.04	636+75.74	.00		+8.70
H-16	3	Harn. lgths.	16.03	48.09		48.09	637+23.83	.00		+8.70
F-90	1	Harn. 45° elbow, L. S. right								
		P.S. to P.I.	1.76	1.76		1.76	637+25.59	.00		+8.70
		P.I. to P.B.	1.41	1.41		1.41	637+27.00	.00		+8.70
H-16	1	Harn. length	16.03	16.03		16.03	637+43.03	.00		+8.70
S-115	1	Harn. short length	5.80	5.80		5.80	637+48.83	.00		+8.70
F-91	1	Harn. 45° elbow, L. S. right								
		P.S. to P.I.	1.76	1.76		1.76	637+50.59	.00		+8.70
		P.I. to P.B.	1.41	1.41		1.41	637+52.00	.00		+8.70

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 22, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION	
		<u>36" Class 200 SP-5</u>					647+23.08	+2.30		5.04	
		STATION EQUATION: STATION 647+23.08 BACK = STATION 647+25.24 AHEAD.						647+25.24	+2.30		5.04
H-16	4	Horn. lengths	16.03	64.12	.02	64.10	647+89.34	+2.30	+1.47	6.51	
h-16	1	Horn. length, clamp S. E. only	16.03	16.03		16.03	648+05.37	+2.30	+ .37	6.88	
	11	Lengths	16.03	176.33	.04	176.29	649+81.66	+2.30	+4.05	10.93	
	1	Length, open jt. top @16.03	16.05	16.05		16.05	649+97.71	+1.22	+ .20	11.13	
	1	Length, open jt. top @16.03	16.04	16.04		16.04	650+13.75	+ .44	+ .07	11.20	
	1	Length, open jt. top @16.03	16.04	16.04		16.04	650+29.79	.00		11.20	
	10	Lengths	16.03	160.30		160.30	651+90.09	.00		11.20	
	1	Length, open jt. top	16.03	16.03		16.03	652+06.12	+ .12	+ .02	11.22	
	1	Length, open jt. top	16.03	16.03		16.03	652+22.15	+ .31	+ .05	11.27	
	20	Lengths	16.03	320.60		320.60	655+42.75	+ .31	+ .99	12.26	
	1	Length, open jt. top	16.03	16.03		16.03	655+58.78	+ .20	+ .03	12.29	
	1	Length, open jt. top	16.03	16.03		16.03	655+74.81	.00		12.29	
	7	Lengths	16.03	112.21		112.21	656+87.02	.00		12.29	
19	1	Horn length, clamp E. E. only w/8" tan flg. 01. 2' fr S. E. right side top	16.03	16.03		16.03	657+03.05	.00		12.29	

Price Brothers Company
LAYING SCHEDULE

PROJECT Mintee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					657+03.05	.00		12.29
B-16	1	Harn. half bevel, L. S. top open jt. bottom @15.97	15.98	15.98	.01	15.97	657+19.02	-2.75	- .44	11.85
B-16	11	Harn. lengths	16.03	176.33	.07	176.26	658+95.28	-2.75	-4.85	7.00
B-16	1	Harn. half bevel, L. S. bottom open jt. top @15.97	15.98	15.98	.01	15.97	659+11.25	.00		7.00
X-7	1	Harn. 45° elbow, L. S. left								
		P. S. to P. I.	1.76	1.76		1.76	659+11.01	.00		7.00
		P. I. to P. B.	1.41	1.41		1.41	659+14.42	.00		7.00
B-16	1	Harn. length	16.03	16.03		16.03	659+30.45	.00		7.00
B-8	1	Harn. 45° elbow, L. S. left								
		P. S. to P. I.	1.76	1.76		1.76	659+32.21	.00		7.00
		P. I. to P. B.	1.41	1.41		1.41	659+33.62	.00		7.00
B-16	2	Harn. lengths	16.03	32.06		32.06	659+65.68	.00		7.00
B-41	1	Harn. P. S. x P. E. (38.30" O.D.) adapter	2.46	2.46		2.46	659+68.14	.00		7.00

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>								
		Begin laying South of Booster Pumping Station Site - Lay South					0+09.00	.00		8.16
X 42	1	P.E. (38.30' O.D.) x harn. P.B. adapter	2.09	2.09		2.09	0+11.09	.00		8.16
S-120	1	Harn. short length	6.22	6.22		6.22	0+17.31	.00		8.16
M-16	1	Harn. lengths	16.03	16.03		16.03	0+33.34	.00		8.16
F-103	1	Harn. 45° elbow, L. S. left Special	3.66	3.66		3.66	0+37.00	.00		8.16
		P.S. to P.I.	1.41	1.41		1.41	0+38.41	.00		8.16
		P.I. to P.B.								
	1	Harn. length	16.03	16.03		16.03	0+54.44	.00		8.16
	1	Harn. 45° elbow, L. S. left								
		P.S. to P.I.	1.76	1.76		1.76	0+56.20	.00		8.16
		P.I. to P.B.	1.41	1.41		1.41	0+57.61	.00		8.16
	1	Harn. length	16.03	16.03		16.03	0+73.64	.00		8.16
MB-16	1	Harn. half bevel, L. S. bottom open jt. top @15.97	15.99	15.99		15.99	0+89.63	+2.42	+ .39	8.55
H-16	6	Harn. lengths	16.03	96.18	.03	96.15	1+85.78	+2.42	+2.33	10.88
I-16	1	Harn. length, open jt. top @16.03	16.05	16.05		16.05	2+01.83	+1.20	+ .19	11.07
J-16	1	Harn. length, open jt. top @16.03 clamp S. E. only	16.04	16.04		16.04	2+17.87	+ .87	+ .14	11.21
	1	Length, open jt. top @16.03	16.04	16.04		16.04	2+33.91	+ .15	+ .02	11.23

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

PREPARED BY M. K. Wheeler

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					2+33.91	+ .15		11.23
10	Lengths	16.03	160.30		160.30	3+94.21	+ .15	+ .24	11.47
STATION EQUATION: STATION 3+94.21 BACK = STATION 662+89.21 AHEAD									
						662+89.21	+ .15		11.47
13	Lengths	16.03	208.39		208.39	664+97.60	+ .15	+ .32	11.79
1	Length, open jt. top	16.03	16.03		16.03	665+13.63	.00		11.79
46	Lengths	16.03	737.38		737.38	672+51.01	.00		11.79
96	1 P.S. x P.E. adapter w/2" I.P. OL @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	672+53.34	.00		11.79
97	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	672+55.48	.00		11.79
	1 36" Butterfly valve (not by P. B. Co.)	1.83	1.83		1.83	672+57.31	.00		11.79
98	1 Flg. x P.B. adapter, w/2" I.P. OL @ S.E.	1.23	1.23		1.23	672+58.54	.00		11.79
	3 Lengths	16.03	48.09		48.09	673+06.63	.00		11.79
99	1 Length, w/8" tan. flg. OL 2' fr. S.E. right side top	16.03	16.03		16.03	673+22.66	.00		11.79
	1 Length, open jt. top @16.03	16.05	16.05		16.05	673+38.71	-1.22	- .20	11.59
	1 Length, open jt. top @16.03	16.04	16.04		16.04	673+54.75	-1.56	- .25	11.34
	8 Lengths	16.03	128.24	.01	128.23	674+82.98	-1.56	-2.01	11.13
	1 Length, open jt. bottom @16.03	16.04	16.04		16.04	674+99.02	-1.22	- .20	10.93
	1 Length, open jt. bottom @16.03	16.05	16.05		16.05	675+15.07	.00		10.93

Price Brothers Company
LAYING SCHEDULE

JCA NO. 217. 5H-Unit IV

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PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-25-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: M. K. Wheeler

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					675+15.07	.00		9.13
8	Lengths	16.03	128.24		128.24	676+43.31	.00		9.13
1	Length, open jt. bottom	16.03	16.03		16.03	676+59.34	+.17	+.02	9.15
27	Lengths	16.03	432.81		432.81	680+92.15	+.17	+.66	9.81
1	Length, open jt. top	16.03	16.03		16.03	681+08.18	.00		9.81
22	Lengths	16.03	352.66		352.66	684+60.84	.00		9.81
15	1 Harn. length, clamp B. E. only	16.03	16.03		16.03	684+76.87	.00		9.81
15	1 Harn. length	16.03	16.03		16.03	684+92.90	.00		9.81
16	1 Harn. length, open jt. top	16.03	16.03		16.03	685+08.93	-.12	-.02	9.79
16	3 Harn. lengths	16.03	48.09		48.09	685+57.02	-.12	-.06	9.73
101	1 Harn. 45° elbow, L. S. left								
		P.S. to P.I.	1.76	1.76	1.76	685+58.78	-.12		9.73
		P.I. to P.B.	1.41	1.41	1.41	685+60.19	-.12		9.73
16	2 Harn. lengths	16.03	32.06		32.06	685+92.25	-.12	-.04	9.69
102	1 Harn. 45° elbow, L. S. left								
		P.S. to P.I.	1.76	1.76	1.76	685+94.01	-.12		9.69
		P.I. to P.B.	1.41	1.41	1.41	685+95.42	-.12		9.69

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HGR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					685+95.42	-.12		9.69
STATION EQUATION:		STATION 685+95.42 BACK = STATION 685+97.57 AHEAD.								
H-16	4	Harn. lgths.	16.03	64.12		64.12	686+61.69	-.12	-.08	9.61
H-16	1	Harn. length, clamp S. E. only	16.03	16.03		16.03	686+77.72	-.12	-.02	9.59
	20	Lengths	16.03	320.60		320.60	689+98.32	-.12	-.37	9.22
	1	Length, open jt. bottom	16.03	16.03		16.03	690+14.35	.00		9.22
	37	Lengths	16.03	593.11		593.11	696+07.46	.00		9.22
	1	Length, open jt. top	16.03	16.03		16.03	696+23.49	-.20	-.03	9.19
	12	Lengths	16.03	192.36		192.36	698+15.85	-.20	-.39	8.80
H-16	1	Harn. length, clamp B. E. only	16.03	16.03		16.03	698+31.88	-.20	-.03	8.77
H-16	2	Harn. lengths	16.03	32.06		32.06	698+63.94	-.20	-.06	8.71
H-16	1	Harn. length, open jt. bottom	16.03	16.03		16.03	698+79.97	.00		8.71
H-16	1	Harn. length	16.03	16.03		16.03	698+96.00	.00		8.71
-104	1	Harn. 45° elbow, L. S. right								
		P. S. to P. I.	1.76	1.76		1.76	698+97.76	.00		8.71
		P. I. to P. B.	1.41	1.41		1.41	698+99.17	.00		8.71

JOB NO. 217.65H-Unit IV

Price Brothers Company
LAYING SCHEDULE

PAGE 12 OF 17 PAGES

PROJECT Manatee Co., Florida, Contract V - Part H

DATE March 21, 1966

REVISED 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					698+99.17	.00		8.71
H-16	1	Harn. length	16.03	16.03		16.03	699+15.20	.00		8.71
F-107	1	Harn. 45° elbow, L. S. right								
		P.S. to P.I.	1.76	1.76		1.76	699+16.96	.00		8.71
		P.I. to P.B	1.41	1.41		1.41	699+18.37	.00		8.71
STATION EQUATION: STATION 699+18.25 BACK = STATION 699+20.07 AHEAD.							699+20.07	.00		8.71
H-16	4	Harn. lgths.	16.03	64.12		64.12	699+84.19	.00		8.71
H-16	1	Harn. length, clamp S. E. only	16.03	16.03		16.03	700+00.22	.00		8.71
	56	Lengths	16.03	897.68		897.68	708+97.90	.00		8.71
	1	Length, open jt. top	16.03	16.03		16.03	709+13.93	-.08	-.03	8.70
	17	Lengths	16.03	272.51		272.51	711+86.44	-.08	-.22	8.48
H-16	1	Harn. length (clamp B. E. only)	16.03	16.03		16.03	712+02.47	-.08	-.01	8.47
H-16	1	Harn. length, open jt. top @16.03	16.04	16.04		16.04	712+18.51	-.32	-.05	8.42
FB-16	1	Harn. full bevel, L. S. left open jt. 3/8" left side @15.91	15.93	15.93		15.93	712+34.40	-.32	-.05	8.37
H-16	1	Harn. length, open jt. 1/2" left side @16.03	16.05	16.05		16.05	712+50.48	.32	-.05	8.32

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 22, 1966

REVISED (1) 3-26-66

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" CLASS 200 SP-5</u>					712+50.49	-.32		8.32
H-16	8	Harn. lengths	16.03	128.24		128.24	713+78.73	-.32	- .41	7.91
H-16	1	Harn. length, open jt. 1/2" right side @16.03	16.05	16.05		16.05	713+94.78	-.32	-.05	7.86
WFB-16	1	Harn. full bevel, L. S. right open jt. 3/8" right side @15.91	15.93	15.93		15.93	714+10.71	-.32	-.05	7.81
H-16	1	Harn. length (clamp S. E. only)	16.03	16.03		16.03	714+26.74	-.32	-.05	7.76
	11	Lengths	16.03	176.33		176.33	716+03.07	-.32	-.56	7.20
	1	Length, open jt. top	16.03	16.03		16.03	716+19.10	-.35	-.06	7.14
	30	Lengths	16.03	480.90		480.90	721+00.00	-.35	-1.67	5.47
	1	Length, open jt. bottom @16.03	16.04	16.04		16.04	721+16.04	.00		5.47
	18	Lengths	16.03	288.54		288.54	724+04.58	.00		5.47
	1	Length, open jt. top @16.03	16.04	16.04		16.04	724+20.62	-.50	-.08	5.39
	24	Lengths	16.03	384.72		384.72	728+05.34	-.50	-1.93	3.46
	1	Length, open jt. bottom @16.03	16.04	16.04		16.04	728+21.38	.00		3.46
	1	Length	16.03	16.03		16.03	728+37.41	.00		3.46
H-16	1	Harn length, clamp B. E. only	16.03	16.03		16.03	728+53.44	.00		3.46

JOB NO. 217.65H-Unit IV

Price Brothers Company
LAYING SCHEDULE

PAGE 14 OF 17 PAGES

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

PREPARED BY M. K. Wheeler

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. JNT. LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	FOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					728+53.44	.00		3.46
4-16	1	Harn. length	16.03	16.03		16.03	728+69.47	.00		3.46
MHB-16	1	Harn. half bevel, L. S. top open jt. bottom	15.97	15.97	.01	15.96	728+85.43	-3.52	-.56	2.90
4-16	6	Harn. lengths	16.03	96.18	.06	96.12	729+81.55	-3.52	-3.38	.48
MHB-16	1	Harn. half bevel, L. S. bottom open jt. top	15.97	15.97		15.97	729+97.52	.00		.48
4-16	1	Harn. length	16.03	16.03		16.03	730+13.55	.00		.48
4-105	1	Harn. length, w/8" tan fl.g OL 2' fr. S.E. right side bottom	16.03	16.03		16.03	730+29.58	.00		.48
MHB-16	1	Harn. half bevel, L. S. bottom, open jt. top @15.97	15.98	15.98	.01	15.97	730+45.55	+3.24	+.52	+04
4-16	6	Harn. lengths	16.03	96.18	.05	96.13	731+41.68	+3.24	+3.11	3.15
4-16	1	Harn. lgth., open jt. top @16.03	16.05	16.05		16.05	731+57.73	+2.02	+.32	3.47
4-16	1	Harn. lgth., open jt. top @16.03	16.05	16.05		16.05	731+73.78	+.86	+.14	3.61
	16	Lengths	16.03	256.48	.01	256.47	734+30.25	+.86	+2.20	5.81
	1	Length, open jt. top @16.03	16.04	16.04		16.04	734+46.29	.00		5.81

Price Brothers Company
LAYING SCHEDULE

PROJECT Mintee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: M. K. Wheeler

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					734+46.29	.00		5.81
	16	Lengths	16.03	256.48		256.48	737+02.77	.00		5.81
	1	Length, open jt. bottom @16.03	16.05	16.05		16.05	737+18.82	+.98	+.16	5.97
	61	Lengths	16.03	983	.05	977.78	746+96.60	+.98	+9.59	15.56
	1	Length, open jt. top @16.03	16.04	16.04		16.04	747+12.64	+.31	+.05	15.61
	1	Length, open jt. top @16.03	16.04	16.04		16.04	747+28.68	.00		15.61
	9	Lengths	16.03	144.27		144.27	748+72.95	.00		15.61
4-16	1	Harn. length, clamp B. E. only	16.03	16.03		16.03	748+88.18	.00		15.61
4-16	5	Harn. lengths	16.03	80.15		80.15	749+69.13	.00		15.61
7-108	1	Harn. 45° elbow, L. S. right								
		P.S. to P.I.	1.76	1.76		1.76	749+70.89	.00		15.61
		P.I. to P.B.	1.41	1.41		1.41	749+72.30	.00		15.61
4-16	2	Harn. lengths	16.03	32.06		32.06	750+04.36	.00		15.61
4-10	1	Harn. 45° elbow, L. S. left								
		P.S. to P.I.	1.76	1.76		1.76	750+06.12	.00		15.61
		P.I. to P.B.	1.41	1.41		1.41	750+07.53	.00		15.61
4-95	1	Harn. length, w/8" tan. flg. OL 2' fr. S.E. left side top	16.03	16.03		16.03	750+23.56	.00		15.61

Price Brothers Company
LAYING SCHEDULE

NO. 217 65X-Unit IV

PROJECT Manatee Co., Florida, Contract V, Part H

DATE March 21, 1966

REVISED (1) 3-26-66

PREPARED BY M. K. Wheeler

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" SP-5 Class 200</u>					750+23.56	.00		15.61
HB 16	1	Harn. half bevel, L. S. top open jt. bottom @15.97	15.98	15.98	.01	15.97	750+39.53	3.45	- .55	15.06
16	5	Harn. lengths	16.03	80.15	.05	80.10	751+19.63	3.45	-2.76	12.30
121	1	Harn. half bevel, L. S. bottom, w/8" tan. flg. OL. right side bottom 2' fr. S. E. open jt. top @15.97	15.98	15.98		15.98	751+35.61	.00		12.30
16	2	Harn. lengths	16.03	32.06		32.06	751+67.67	.00		12.30
14B-16	1	Harn. half bevel, L. S. bottom open jt. bottom @15.97	15.99	15.99	.02	15.97	751+83.64	+4.48	+ .72	13.02
16	6	Harn. lengths	16.03	96.18	.10	96.08	752+79.72	+4.48	+4.30	17.32
14B-16	1	Harn. half bevel, L. S. top open jt. bottom, clamp S. E. only	15.97	15.97		15.97	752+95.69	+ .91	+ .15	17.47
	37	Lengths	16.03	593.11	.03	593.08	758+88.77	+ .91	+5.40	22.87
	1	length, open jt. bottom	16.03	16.03		16.03	759+04.80	+ .92	+ .15	23.02
	12	Lengths	16.03	192.36		192.36	760+97.16	+ .92	+1.76	24.18
	1	Length, open jt. top @16.03	16.04	16.04		16.04	761+13.20	(0)		24.78

J.C.B. NO. 217.65H-Unit IV

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee Co., Florida, Contract V, Period

DATE March 21, 1966

REVISED (1) 3-26-66

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M. K. Wheeler

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" SP-5 Class 200</u>					761+13.20	.00		24.78
23	<u>Lengths</u>	16.03	368.69		368.69	764+81.89	.00		24.78
122	<u>1 P.S. x P.E. (38.30") adapter</u>	2.33	2.33		2.33	764+84.22	.00		24.78

Price Brothers Company
LAYING SCHEDULE

PROJECT: Manatee County Florida - Contract V Part B

DATE: December 17, 1965

ART JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL ALIGNMENTS

REVISIONS:
PREPARED BY: D.M. [Signature]

NO.	DESCRIPTION	BY UNIT LENGTH	TOTAL LENGTH	SCOPE	HOR. LAY LENGTH	STATION	% GRADE	CHANGING ELEVATION	CENTER LINE ELEVATION
	Start at end of Unit J and lay Last					378+29.47	0.00		12.65
	<u>35' Class 200 SP-5</u>								
1	Length (open jt. bottom)	16.02	16.03		16.02	378+13.44	+1.10	+ 01	12.66
38	Lengths	16.03	609.14		609.14	372+04.30	+1.10	+ 00	13.26
1	Length w/8" tan. flg. OL Top right 2' from S.E. (open jt. top) (@16.03')	16.04	16.04		16.04	371+88.26	-.28	- 04	13.22
19	Lengths	16.03	304.57		304.57	365+83.69	-.28	- 87	12.35
1	Horn. length (open jt. top) (clamp P.E. only)	16.03	16.03		16.03	368+67.66	-.54	- 09	12.26
10	Horn. lengths	16.03	160.30		160.30	360+29.37	-.54	- 90	11.36
1	Horn. length, w/8" tan. flg. OL. bottom right, 2' fr. S.E. (open jt. bottom) (@16.03')	16.04	16.04		16.04	366+91.38	.00	00	11.36
3	Horn. lengths	16.03	48.09		48.09	366+49.72	.00	00	11.36
1	Horn. length (open jt. bottom) (@16.03')	16.05	16.05		16.05	366+19.19	+1.22	+ 20	11.56
1	Horn. length (open jt. bottom)	16.03	16.03		16.03	366+11.18	+1.28	+ 20	11.78
7	Horn. lengths	16.03	112.21		112.20	364+98.96	+1.28	+1 43	13.19
1	Horn. length (open jt. top) (@16.03') Clamp S.E. only	16.05	16.05		16.05	361+82.91	+1.16	+ 03	13.22
37	Lengths	16.03	593.11		593.11	358+89.80	+1.16	+ 94	14.16

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED

Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract or shall it be of any error which may exist.

RUSSELL & MOON Consulting Engineers
By: [Signature] Date: 3/24/66

Walter Brothers Company
LAYING SCHEDULE

PROJECT: **Windsor Court, Florida - Contract A Part II**

PRIMARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, TYPING AND MONITORING COLLECTIONS

DATE:

NO.	DESCRIPTION	BY JOINT LENGTH	TOTAL LAID LENGTH	SCOPE MARK	HOE LAYED LENGTH
MISCELLANEOUS MATERIALS SHIPPING LIST					
735	36" laying gaskets				
571	36" diapers				
164	36" wide diapers				
164	36" harn. clamp ring assy.				
19	25# pails Price lube				
2	Internal feeler gauges				
2	Joint stops				

(Handwritten initials)
2/2/66

(Handwritten signature)

Price Brothers Company
Laying Schedule

212 65M

PROJECT Manatee County, Florida, Braden River Crossing

DATE March 14, 1966

REVISED (A) 3-15-66

BY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

PREPARED BY J. J. ...

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOOK END LENGTH	STATION	% GRADE	GRADE IN ELEVATION	CENTER LINE ELEVATION
	3" SP-11 Class 200					2+72 10			9 90
X-32	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-31	16.03	16.03	.00	16.03	2+88 19	63	+ 10	9 80
X-33	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-34	16.03	16.03	.00	16.03	3+04 22	63	+ 10	9 70
X-34	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-33	16.03	16.03	.00	16.03	3+20 25	63	+ 10	9 60
X-35	Tied full bevel. I. S. bottom, tied B.E. only, Shopweld B. E. to S. E. of X-36 @15.91	15.92	15.92	.05	15.87	3+36 12	7 91	+ 1 27	9 53
X-36	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-35	16.03	16.03	.05	15.98	3+52 10	7 91	+ 1 27	9 46
X-37	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-38	16.03	16.03	.05	15.98	3+68 08	7 91	+ 1 27	9 39
X-38	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-37	16.03	16.03	.05	15.98	3+84 06	7 91	+ 1 27	9 32
X-39	Lgth. w/subsequent P. S. & standard P.B	16.03	16.03	.05	15.98	4+00 04	7 91	+ 1 27	9 25

Price Brothers Company
LAYING SCHEDULE

CONTRACT NO. 217-65

PROJECT Manatee County, Florida Braden River Crossing

DATE March 14, 1966

REVISED (1) 3-15-66

PREPARED BY Jerome Wilson, Jr

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" SP-11 Class 200</u>					1+27.89			-10.80
X-23	1	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-24	16.03	16.03	00	16.03	1+43.92	63	+ 10	-10.00
X-24	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-23	16.03	16.03	00	16.03	1+59.95	63	+ 10	-10.50
X-25	1	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-26	16.03	16.03	00	16.03	1+75.98	63	+ 10	-10.50
X-26	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-25	16.03	16.03	00	16.03	1+92.01	63	+ 10	-10.50
X-27	1	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-28	16.03	16.03	00	16.03	2+08.00	63	+ 10	-10.50
X-28	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-27	16.03	16.03	00	16.03	2+24.07	63	+ 10	-10.20
X-29	1	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-30	16.03	16.03	00	16.03	2+40.10	63	+ 10	-10.10
X-30	1	Tied lgth., tied S. E. only Shopweld S. E. to B. E. of X-29	16.03	16.03	00	16.03	2+56.13	63	+ 10	-10.00
X-31	1	Tied lgth., tied B. E. only Shopweld B. E. to S. E. of X-32	16.03	16.03	00	16.03	2+72.16	63	+ 10	-9.50

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE December 17, 1965

NOT VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

REVISED

PREPARED BY D.M. Lanning

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP 5</u>					358+89.80	+ 16		14.16
1	Length (open jt. bottom)	16.03	16.03		16.03	358+73.77	+ .25	+ .04	14.20
20	Lengths	16.03	320.60		320.60	355+53.17	+ .25	+ .80	15.00
1	Length (open jt. top) (@16.03')	16.04	16.04		16.04	355+37.13	+ .06	+ .01	15.01
27	Lengths	16.03	432.81	.01	432.80	351+04.33	+ .06	+ .25	15.27
1	Length (open jt. bottom) (@16.03')	16.05	16.05		16.05	350+88.28	+ .83	+ .13	15.40
18	Lengths	16.03	288.54	.01	288.53	347+99.75	+ .83	+ 2.39	17.79
1	Length (open jt. top)	16.03	16.03		16.03	347+83.72	+ .62	+ .10	17.89
14	Lengths	16.03	224.42		224.42	345+59.30	+ .62	+ 1.39	19.28
41	Length, w/8" tan. fig. OL. top right 2' from S.E.	16.03	16.03		16.03	345+43.27	+ .62	+ .10	19.38
1	Length (open jt. top) (@16.03')	16.05	16.05		16.05	345+27.22	- .60	- .10	19.28
1	Length (open jt. top) (@16.03')	16.04	16.04		16.04	345+11.18	- .93	- .15	19.13
7	Lengths	16.03	112.21	.01	112.20	343+98.98	- .93	- 1.03	18.10
1	Length (open jt. top) (@16.03')	16.05	16.05		16.05	343+82.93	- 1.05	- .17	17.93
2	Lengths	16.03	32.06		32.06	343+50.87	- 1.05	- .33	17.60
1	Man. length (clamp B.E. only)	16.03	16.03		16.03	343+34.84	- 1.05	- .17	17.43
11	Man. lengths	16.03	176.33	.02	176.31	341+58.53	- 1.05	- 1.85	15.58

APPROVED

[Signature]

3 Jan 66

Price Brothers Company
LAYING SCHEDULE

PROJECT **Manatee County, Florida - Contract V Part H**

DATE **December 17, 1965**

NO. **VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.**

PREPARED BY **D.M. Jaming**

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36" Class 200 SP-5					341+58.53	-1.05		15.58
42	1 Barn. length (open jt. bottom) (@16.03') w/8" fan. flg. OL. bottom right 2' fr. S.E.	16.05	16.05		16.05	341+42.48	0.00	0.00	15.58
	1 Barn. length	16.03	16.03		16.03	341+26.45	0.00	0.00	15.58
	1 Barn. length (open jt. bottom) (@16.03')	16.04	16.04		16.04	341+10.41	+0.65	+0.10	15.68
	9 Barn. lengths	16.03	144.27		144.27	339+66.14	+0.65	+0.94	16.62
	1 Barn. length (open jt. bottom)	16.03	16.03		16.03	339+50.11	+0.84	+0.13	16.75
	1 Barn. length (clamp S.E. only)	16.03	16.03		16.03	339+34.08	+0.84	+0.13	16.88
	5 Lengths	16.03	80.15		80.15	338+53.93	+0.84	+0.67	17.55
	1 Length (open jt. top) (@16.03')	16.03	16.03		16.03	338+37.90	+0.22	+0.04	17.59
	13 Lengths	16.03	208.39		208.39	336+29.51	+0.22	+0.46	18.05
	1 Length (open jt. bottom) (@16.03')	16.03	16.03		16.03	336+13.48	+0.39	+0.06	18.11
	7 Lengths	16.03	112.21		112.21	335+01.27	+0.39	+0.44	18.55
	1 Length (open jt. top) (@16.03')	16.03	16.03		16.03	334+85.24	0.00	0.00	18.55
	32 Lengths	16.03	512.96		512.96	329+72.28	0.00	0.00	18.55
	1 Length (open jt. bottom) (@16.03')	16.05	16.05		16.05	329+56.23	+1.00	+0.16	18.71
	19 Lengths	16.03	304.57		304.57	326+51.66	+1.00	+3.04	21.75
	1 Length (open jt. top) (@16.03')	16.05	16.05		16.05	326+35.61	0.00	0.00	21.75

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PAGES

JOB NO. 217.65H - Unit II

Price Brothers Company
LAYING SCHEDULE

4 OF 11

December 17, 1966

PROJECT Manatee County, Florida - Contract V Part II

NOT VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY D.M. Lamung

LINE ION	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HORIZ. LAID LENGTH	STATION	GRADE	JOINT OPENING ELEVATION	VERTICAL ELEVATION
5.58		<u>36" Class 200 SP-5</u>					320+39.91	0.00		21.75
5.58	24	Lengths	16.03	384.72		384.72	322+50.96	0.00	0.00	21.75
5.58	1	Length (open jt. bottom) (@16.03')	16.03	16.03		16.03	322+34.85	+ .40	+ .05	21.81
5.68	5	Lengths	16.03	80.15		80.15	321+54.73	+ .40	+ .32	22.13
5.62	-43	1 Length w/8" tan. flg. OL. top right 2' from S.E. (open jt. top) (@16.03')	16.03	16.03		16.03	321+38.68	0.00	0.00	22.13
5.75	-44	1 P.S. x P.E. adapter w/2" I.P. OL. @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	321+36.55	0.00	0.00	22.13
5.83	-45	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	321+34.21	0.00	0.00	22.13
7.55		1 36" butterfly valve (not by P.B. Co.)	1.83	1.83		1.83	321+32.38	0.00	0.00	22.13
7.59	-46	1 P.B. x flg. adapter w/2" I.P. OL. @ B.E.	1.23	1.23		1.23	321+31.15	0.00	0.00	22.13
8.05		8 Lengths	16.03	128.24		128.24	320+02.91	0.00	0.00	22.13
8.11		1 Length (open jt. top) (@16.03')	16.03	16.03		16.03	319+86.88	- .16	- .03	22.10
8.55		68 Lengths	16.03	1090.04		1090.04	308+96.84	- .16	-1.75	20.35
8.55		1 Length (open jt. bottom) (@16.03')	16.03	16.03		16.03	308+80.81	0.00	0.00	20.35
8.55		13 Lengths	16.03	208.39		208.39	306+72.42	0.00	0.00	20.35
8.71		1 Harn. length (clamp B.E. only)	15.03	16.03		16.03	306+56.39	0.00	0.00	20.35
1.75		1 Harn. half bevel (L.S. top) (open jt. bottom) (@15.97')	15.99	15.99	.01	15.98	306+40.41	-2.50	- .40	19.95

JK

Open 66

Price Brothers Company
LAYING SCHEDULE

DATE December 17, 1965

PROJECT Manatee County, Florida - Contract V Part H

REVISED

PREPARED BY D. M. Laming

JOB

NO. VARY JOIN

VARY JOIN: OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	CHANGES	INTER. LINE
	<u>36" Class 200 SP-5</u>					262+97.08	0.00	18.62
54	1 Barn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	262+81.05	0.00	18.62
	2 Barn. lengths	16.03	32.06		32.06	262+48.99	0.00	18.62
	1 Barn. half bevel (L.S. bottom) 15.99 (open jt. top) (@15.97')	15.99	15.99		15.99	262+33.00	+2.76	19.06
	4 Barn. lengths	16.03	64.12		64.12	261+68.88	+2.76	20.83
	1 Barn. length (open jt. top) (@16.03')	16.05	16.05		16.05	261+52.83	+1.84	21.12
	1 Barn. length (open jt. top) (@16.03')	16.05	16.05		16.05	261+36.78	+0.92	21.27
	1 Barn. length (open jt. top) (@16.03')	16.04	16.04		16.04	261+20.74	+0.34	21.32
	1 Barn. length (clamp S.E. only)	16.03	16.03		16.03	261+04.71	+0.34	21.37
	6 Lengths	16.03	96.18		96.18	260+08.53	+0.34	21.69
-55	1 Length w/8" tan. flg. OL. top right 2' from S.E. (open jt. top) (@16.03')	16.04	16.04		16.04	259+92.49	-0.37	21.64
	18 Lengths	16.03	288.54		288.54	257+03.95	-0.37	20.58
	1 Barn. length (clamp S.E. only) (open jt. top)	16.05	16.05		16.05	256+87.90	-1.29	20.37
	1 Barn. length	16.03	16.03		16.03	256+71.87	-1.29	20.16
	1 Barn. length (open jt. top) (@16.03')	16.04	16.04		16.04	256+55.83	-1.64	19.90

APPROVED
Date 1/24/66

8-56

Price Brothers Company
LAYING SCHEDULE

DATE: December 17, 1965
 PREPARED BY: D.M. Laming

PROJECT: Manatee County, Florida - Contract V Part H

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	ELEVATION
	36" Class 200 SP-5					256+55.83	-1.64		19.90
4	Bar. lengths	16.03	64.12		64.12	255+91.71	-1.64	-1.05	18.85
1	Bar. length (open jt. bottom) (@16.03')	16.05	16.05		16.05	255+75.66	-.92	-.15	18.70
1	Bar. length (open jt. bottom) (@16.03')	16.05	15.05		16.05	255+59.61	0.00	0.00	18.70
1	Bar. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	255+43.58	0.00	0.00	18.70

[Handwritten notes and signatures]
 3/2/66

-56

Price Brothers Company
LAYING SCHEDULE

NO. 217.65H - Unit III

PROJECT Manatee County, Florida - Contract V Part II

DATE January 1966
REVISED See Below
PREPARED BY J. E. [unclear]

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR	HOR. LAID LENGTH	STATION	GRADE	ELEVATION	OTHER DATA
MISCELLANEDUS MATERIALS SHIPPING LIST									
31	25# pails Price lube								
1217	36" laying gaskets								
1096	36" diapers								
122	36" wide diapers								
122	36" horn. clamp ring assy.								
2	Internal feeler gauges								
2	Joint stops								

Revisions:
(1) 3-21-66
Page 7 & MMSL

APPROVED
 CONSTRUCTION DRAWING
 SUBJECT TO REVISIONS INDICATED
Locations not approved
 The undersigned hereby certifies that the drawings and specifications herein are true and correct and that he is not responsible for any errors or omissions which may exist.
 J. E. [unclear]
 Date 2 Apr 66
 J. E. & AXON, Consulting Engineers

Mandy

LAYING SCHEDULE

PROJECT: Manatee County, Florida - Contract V Part B

AND JOINT OPENINGS TO OBTAIN THE REQUIRED GRADE, ELEVATION AND HORIZONTAL DEFLECTIONS

NO	DESCRIPTION	UNIT	TOTAL LANE	GRADE	HOR. LANE	ELEVATION	CHANG	DATE
	<u>36" Class 200 SP-5</u>					272+74.91	-1.80	20.16
1	Horn. length (open jt. bottom) (@16.03')	16.05	16.05	16.05	272+58.96	-1.08	-17	19.99
1	Horn. length w/8" tan. fig OL bottom right 2' from S.E. (open jt. bottom) (@16.03')	16.05	16.05	16.05	272+42.81	0.00	0.00	19.99
1	Horn. length	16.03	16.03	16.03	272+26.78	0.00	0.00	19.99
1	Horn. length (open jt. bottom) (@16.03')	16.05	16.05	16.05	272+10.73	-1.17	+19	20.18
7	Horn. lengths	16.03	112.21	112.21	270+98.52	+1.17	-1.31	21.40
1	Horn. length (clamp S.E. only) (open jt. top) (@16.03')	16.05	16.05	16.05	270+82.47	+0.09	+01	21.50
18	Lengths	16.03	288.55		267+93.93	+0.09	+26	21.76
1	Length w/8" tan. fig. OL top right 2' fr. S.E. (open jt. top) (@16.03')	16.03	16.03	16.03	267+77.90	-0.23	-04	21.72
22	Lengths	16.03	352.66		264+23.24	-0.23	-81	20.91
1	Horn. length (clamp S.E. only)	16.03	16.03	16.03	264+03.21	-0.23	-04	20.87
1	Horn. length	16.03	16.03	16.03	263+23.18	-0.23	-04	20.83
1	Horn. half bevel, (L.S. top) (open jt. bottom) (@15.97')	15.99	15.99	15.99	263+77.19	-2.76	-44	20.39
4	Horn. lengths	16.03	64.12	64.12	263+13.07	-2.76	-1.77	18.62
1	Horn. half bevel (L.S. bottom) (open jt. top) (@15.97')	15.99	15.99	15.99	262+97.08	0.00	0.00	18.67

APPROVED
CONSTRUCTION DRAWING
 SUBJECT TO REVISIONS INDICATED
 16.03
 Approval of this drawing does not relieve the contractor of the responsibility of adhering to the contract and shall it relieve him of any error which may exist.
RUSSELL & AXON, Consulting Engineers
 By: *[Signature]* 16.03.06

WATER SYSTEM COMPANY
LAYING SCHEDULE

DATE: December 11, 1966
REVISION:
PREPARED BY: J.M. LEWIS

PROJECT: Manatee Court - Florida - Contract V Part II

BY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

50

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NO	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORRECTION	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36" Class 200 SP-5					283+32.79	-2.44		19.31
1	Harn. half bevel (L.S. bottom) (open jt. top) (@15.97')	15.97	15.97		15.97	283+16.82	0.00	0.00	19.31
1	Harn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	283+00.79	0.00	0.00	19.31
2	Harn. lengths	16.03	32.06		32.06	282+68.73	0.00	0.00	19.31
1	Harn. half bevel (L.S. bottom) (open jt. top) (@15.97')	15.99	15.99		15.99	282+52.74	+2.64	+ .43	19.74
6	Harn. lengths	16.03	96.18		96.18	281+56.56	+2.64	+2.57	22.31
1	Harn. half bevel (L.S. top) (open jt. bottom) (@15.97')	15.99	15.99		15.99	281+40.57	+ .24	+ .03	22.34
2	Harn. lengths	16.03	32.06		32.06	281+08.51	+ .24	+ .08	22.42
1	Harn. length (clamp S.E. only)	16.03	16.03		16.03	280+92.48	+ .24	+ .04	22.46
18	Lengths	16.03	288.54		288.54	278+03.94	+ .24	+ .69	23.15
1	Length w/8" tan. flg. OL. top right 2' from S.E. (open jt. top) (@16.03')	16.03	16.03		16.03	277+87.91	- .20	- .03	23.12
24	Lengths	16.03	384.72		384.72	274+03.19	- .20	- .77	22.35
1	Harn. length (clamp S.E. only) (open jt. top) (@16.03')	16.05	16.05		16.05	273+87.14	-1.05	- .17	22.18
1	Harn. length (open jt. top) (@16.03')	16.05	16.05		16.05	273+71.09	-1.80	- .29	21.89
6	Harn. lengths	16.05	96.18		96.18	272+74.91	-1.80	-1.73	20.16

REVISION
DATE: 2/24/66

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County Florida - Contract V Part H

DATE December 17, 1965

REVISED _____

PREPARED BY D. M. Loring

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					295+50.60	-.22		19.46
1	Harn. half bevel (L.S. top) (open jt. top) (@15.97')	15.99	15.99	.02	15.97	295+34.63	-4.15	- .67	18.81
8	Harn. lengths	16.03	128.24	.12	128.12	294+06.51	-4.15	-5.31	13.50
1	Harn. half bevel (L.S. bottom) (open jt. bottom) (@15.97')	15.99	15.99		15.99	293+90.52	0.00	0.00	13.50
1	Harn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	293+74.49	0.00	0.00	13.50
2	Harn. lengths	16.03	32.06		32.06	293+42.43	0.00	0.00	13.50
1	Harn. half bevel (L.S. bottom) (open jt. bottom) (@15.97')	15.97	15.97	.02	15.97	293+26.46	+4.52	+.72	14.22
10	Harn. lengths	16.03	160.30	.20	160.10	291+66.36	+4.52	+7.24	21.46
1	Harn. half bevel (L.S. top) (open jt. top) (@15.97') (Clamp S.E. only)	15.99	15.99		15.99	291+50.37	+.10	+ .01	21.47
40	Lengths	16.03	641.20		641.20	285+09.17	+.10	+.64	22.11
1	Harn. length (clamp B.E. only)	16.03	16.03		16.03	284+93.14	+.10	+.01	22.12
3	Harn. lengths	16.03	48.18		48.18	284+44.96	+.10	+.04	22.16
1	Harn. half bevel (L.S. top) (Open jt. bottom) (@15.97')	15.99	15.99		15.99	284+28.97	-2.44	-.40	21.76
6	Harn. lengths	16.03	96.18		96.18	283+32.79	-2.44	-2.45	19.31

Price Streets Company
LAYING SCHEDULE

Munroe County Florida (Contract V. 1000)

September 12, 1965

JOINT OPENINGS TO OBTAIN THE REQUIRED GRADE IN VARIOUS HORIZONTAL DIRECTIONS

Initial J.P. Laying

NO	DESCRIPTION	AV. INCH	TOTAL	SLOPE	HORIZONTAL	VERTICAL	ANGLE IN	CENTER LINE
	36" Class 200 SP-5							
8	Horn. lengths	16.03	128.24	08	128.16	306+40.41	-2.50	19.95
1	Horn. half bevel (L.S. bottom) (open jt. top) (@15.97')	15.99	15.99		15.99	305+12.25	-2.50	16.75
1	Horn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	304+96.26	0.00	16.75
2	Horn. lengths	16.03	32.06		32.06	304+88.23	0.00	16.75
1	Horn. half bevel (L.S. bottom) (open jt. top) (@15.97')	15.97	15.97		15.97	304+48.17	0.00	16.75
9	Horn. lengths	16.03	144.27		144.27	304+32.20	+3.12	17.25
1	Horn. half bevel (L.S. top) (open jt. bottom) (@15.97') (clamp S.E. only)	15.97	15.97		15.97	304+48.17	+3.12	21.75
1	Length w/8" tan. flg. OL. top right 2' from S.E.	16.03	16.03		16.03	302+93.93	0.00	21.75
1	Length (open jt. top) (@16.03')	16.04	16.04		16.04	302+71.96	0.00	21.75
9	Lengths	16.03	144.27		144.27	302+59.93	0.00	21.75
1	Length (open jt. bottom) (@16.03')	16.03	16.03		16.03	302+99.89	-0.68	21.64
1	Lengths	16.03	144.27		144.27	302+99.89	-0.68	21.64
1	Length (open jt. bottom) (@16.03')	16.03	16.03		16.03	300+95.62	-0.68	20.66
31	Lengths	16.03	496.93		496.93	300+79.59	-0.22	20.63
1	Horn. length (clamp B.E. only)	16.03	16.03		16.03	295+82.66	-0.22	19.54
1	Horn. length	16.03	16.03		16.03	295+66.63	-0.22	19.51
1	Horn. length	16.03	16.03		16.03	295+50.60	-0.22	19.48

APPROVED

Russell A. Axman
By: *[Signature]* Date: 3/24/65

Manatee County, Florida - Contract V Part B

BY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

PREPARED BY

NO.	DESCRIPTION	AX. UNIT LENGTH	TOTAL LINE LENGTH	CLOSE CORR.	HOR. LINE LENGTH	STATION	GRADE	ELEVATION	REMARKS
	<u>36" Class 200 SP-5</u>					229+02.50	.00		
1	Length, open jt. top (@16.03')	16.04	16.04		16.04	228+60.40	-.47		
32	Lengths	16.03	512.96		512.96	223+73.50	.00		
1	Length	16.03	16.03		16.03	223+57.47	-.47	-.08	
1	Length, open jt. bottom (@16.03')	16.00	16.00		16.00	223+01.00	.00	.00	
15	Lengths	16.03	240.45		240.45	221+00.98	.00	.00	
1	Harn. length - clamp B.E. only	16.03	16.03		16.03	220+00.05	.00	.00	
4	Harn. lengths	16.03	64.12		64.12	220+00.03	.00	.00	
F-63	Harn. 36° 45' elbow, L.S. top P.S. to P.I. P.I. to P.B.	1.39 1.15	1.39 1.15		1.39 1.15	220+19.44 220+18.52	.00 -.74.67	.00 -.69	
1	Harn. length	16.03	16.03		16.03	220+05.67	-.74.67	-9.60	
F-64	Harn. 36° 45' elbow, L.S. bottom P.S. to P.I. P.I. to P.B.	1.39 1.15	1.39 1.15		1.39 1.15	220+04.56 220+03.41	-.74.67 .00	-.83 .00	
S-65	Harn. length w/8" tang. flg. OL. 2' from S.E. bottom right side	16.03	16.03		16.03	219+07.98	.00	.00	
4	Harn. lengths	16.03	64.12		64.12	219+23.26	.00	.00	
S-66	Harn. short length	3.26	3.26		3.26	219+20.00	.00	.00	
F-67	Harn. 44° 30' elbow, L.S. bottom P.S. to P.I. P.I. to P.B.	1.62 1.38	1.62 1.38		1.62 .97	219+18.38 219+17.41	.00 +.98.27	.00 +.95	

APPROVED
 240.45
 16.83
 64.12
 the contract
 of 29
 of any other
 12.85
 RUSSELL & AXON, Consulting Engineers
 By _____ Date _____

LAYING SCHEDULE

PROJECT: Manatee County, Florida - Contract V Part II

DATE: January 1964
 REVISED: _____
 PREPARED BY: M. W. Vignati

KEY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

NO	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTERLINE ELEVATION
	<u>36" Class 200 SP-5</u>					244+04.86	.00		20.36
41	Lengths	16.03	657.23		657.23	237+47.63	.00	.00	20.36
NOTE:	It will be necessary to open each joint on left side from here to Sta. 214+50 to follow horizontal curve.								
21	Lengths	.6.05	336.63			234+11.00	.00	.00	20.36
S-59	1 Length, w/8" tang. flg. OL 2' from S.E. right side top	16.03	16.03			233+94.97	.00	.00	20.36
F-60	1 P.S. x P.E. adapter w/2" I.P. OL. @ S.E. (P.E.=37.96" O.D.) open jt. top (@2.33')	2.35	2.35			233+92.62	-.91	-.02	20.34
F-61	1 P.E. x flg. adapter(P.E.=37.96" O.D.)	2.14	2.14			233+90.48	-.91	-.02	20.32
	1 36" butterfly valve(not by P.B. Co.)	1.83	1.83			233+88.65	-.91	-.02	20.30
F-62	1 Flg. x P.B. adapter @/2" I.P. OL. @ B.E.	1.23	1.23			233+87.42	-.91	-.01	20.29
	1 Length, open jt. top (@16.03')	16.05	16.05			233+71.37	-1.81	-.29	20.00
	3 Lengths	16.03	48.09	.01	48.08	233+23.29	-1.81	-.87	19.13
	1 Length, open jt. bottom (@16.03')	16.04	16.04		16.04	233+07.25	-1.50	-.24	18.89
	1 Length, open jt. bottom (@16.03')	16.04	16.04		16.04	232+91.21	-.91	-.15	18.74
	1 Length, open jt. bottom (@16.03')	16.05	16.05		16.05	232+75.16	.00	.00	18.74
STATION REVISION: Sta. 232+75.16 back = Sta. 232+55.16 ahead						232+55.16			
22	Lengths	16.03	352.66		352.66	229+02.50	.00	.00	18.75

APPROVED
 CONSULTING DRAWING
 SUBMITTED AND REVISIONS INDICATED

the contractor or subcontractor shall be responsible for the accuracy of the data and shall it relieve him of any error which may exist.

RUSSELL & AXON, Consulting Engineers
 By: *[Signature]* Date: 1/14/64

PROJECT Manatee County, Florida - Contract V Part II

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY: P. W. WOODS

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRAD	CHANGE IN ELEVATION	CENTERLINE ELEVATION
	36" Class 200 SP-5					245+96.92	-1.43		19.18
1	Harn. length, open jt. bottom (@16.03')	16.05	16.05	.01	16.04	245+80.88	-2.52	-.40	18.78
1	Harn. length, open jt. bottom (@16.03')	16.05	16.05		16.05	245+64.83	-1.61	-.26	18.52
1	Harn. full bevel, L.S. right (@15.91') Open jt. 1/8" long side Rotate for grade	15.92	15.92		15.92	245+48.91	-.91	-.15	18.37
S-58	1 Harn. length, open jt. bottom (@16.03') w/8" tar. flg. OL. right side Bottom 2' from S.E.	16.05	16.05		16.05	245+32.86	.00	.00	18.37
1	Harn. length	16.03	16.03		16.03	245+16.83	.00	.00	18.37
1	Harn. full bevel, L.S. right (@15.91') Open jt. 1/8" long side Rotate for grade	15.92	15.92		15.92	245+00.91	+1.50	+.08	18.45
1	Harn. half bevel, L.S. bottom (@15.97') Open jt. top	15.98	15.98	.01	15.98	244+84.94	+3.43	+.55	19.00
1	Harn. length	16.03	16.03	.01	16.02	244+68.92	+3.43	+.55	19.55
1	Harn. length, open jt. top (@16.03')	16.05	16.05	.01	16.04	244+52.88	+2.52	+.40	19.95
1	Harn. length, open jt. top (@16.03')	16.05	16.05		16.05	244+36.83	+1.61	+.26	20.21
1	Harn. full bevel, L.S. left (@15.91') Open jt. 1/8" long side Rotate for grade (clamp S.E. only)	15.92	15.92		15.92	244+20.91	+.91	+.15	20.36
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	244+04.86	.00	.00	20.36

APPROVED

By: *[Signature]*

RUSSELL & AXON Consulting Engineers

the contractor shall be responsible for the accuracy of the data furnished hereon and for any error which may occur in the construction of any work shown hereon.

PROJECT: Manatee County, Florida - Contract V Part II

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTION

DATE: 11/14/82
 REVISION:
 DRAWN BY: [unclear]

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LINE LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	GRADE	VERTICAL ELEVATION	FINISH ELEVATION	
	Begin laying at end of Unit II lay East					255+43.58	.00		18.70	
	<u>36" Class 200 SP-5</u>									
3	Horn. lengths	16.03	48.09		48.09	254+95.49	.00	.00	18.70	
1	Horn. length, open jt. bottom (@16.03')	16.05	16.05		16.05	254+79.44	+1.91	+1.15	18.85	
1	Horn. length, open jt. bottom (@16.03')	16.04	16.04		16.04	254+63.40	+1.70	+1.27	19.12	
4	Horn. lengths	16.03	64.12	.01	64.11	253+99.29	+1.70	+1.00	20.21	
1	Horn. length, open jt. top (@16.03')	16.04	16.04		16.04	253+83.25	.00	+1.15	20.36	
1	Horn. length (clamp S.E. only) Open jt. top (@16.03')	16.04	16.04		16.04	253+67.21	.00	.00	20.36	
36	Lengths	16.03	577.08		577.08	247+90.13	.00	.00	20.36	
STATION EQUATION: Sta. 247+90.13 back - Sta. 248+05.13 ahead										
9	Lengths	16.03	144.27		144.27	246+27.86	.00	.00	20.36	
8-57	1	Horn. length (clamp S.E. only) w/8" tang. flg. OL. 2' from S.E. Top right	16.03	16.03		16.03	246+11.82	.00	.00	20.36
1	Horn. full bevel, L.S. left (@15.91') Open jt. 1/8" long side Rotate down for grade	15.92	15.92		15.92	246+28.91	-.50	-.08	20.28	
1	Horn. half bevel, L.S. top Open jt. bottom	15.98	15.98	.01	15.97	246+12.94	-3.43	-.55	19.73	
1	Horn. length	16.03	16.03	.01	16.02	245+96.92	-3.43	-.55	19.18	

APPROVED
 CONSTRUCTION DRAWING
 577.08 SUBJECT TO FIELD MEASUREMENTS
 Approval of this drawing by the contractor of the project, or his authorized representative, shall constitute acceptance of the drawing and release of the contractor of any error which may exist.
155021 & AXON, Consulting Engineers
 By: [Signature] Date: 11/14/82

Price Drafting Company
LAYING SCHEDULE

January 10, 1967

PROJECT **Manatee County, Florida - Contract V Part H**

WORK TO BE DONE: JOBS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

DESIGNED BY **M.K. Wharton**

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36" Class 200 SP-5					219+10.00	+98.27		6.00
1	Horn. length	16.03	16.03	4.71	11.32	219+06.68	+98.27	+11.10	17.10
7-68 1	Horn. 44°30' elbow, L.S. top	1.62	1.62	.47	1.15	219+08.84	+98.27	-1.13	18.23
	P.S. to P.I.	1.38	1.38		1.38	219+03.46	.00	.00	18.23
	P.I. to P.B.								
1	Horn. length, open jt. bottom (@16.03')	16.05	16.05		16.05	218+87.81	+1.81	+1.13	18.36
1	Horn. length, open jt. top (@16.03')	16.05	16.05		16.05	218+71.06	.00	.00	18.36
2	Horn. lengths	16.03	32.06			218+34.42	.00	.00	18.36
1	Horn. length, clamp S.E. only	16.03	16.03			218+23.73	.00	.00	18.36
16	Lengths	16.03	256.48			215+66.89	.00	.00	18.36
S-69 1	Length, w/8" tang. flg. OL. 2' from S.E. right side top	16.03	16.03			215+58.86	.00	.00	18.36
1	Half bevel, L.S. top Open jt. bottom	15.98	15.98			215+34.89	-2.99	-.48	17.88
5	Lengths	16.03	80.15	.03	80.12	214+54.77	-2.99	-2.39	15.49
1	Horn. length, clamp B.E. only	16.03	16.03	.01	16.02	214+38.75	-2.99	-.48	15.01
1	Horn. length	16.03	16.03	.01	16.02	214+22.73	-2.99	-.48	14.53
STATION EQUATION: Sta. 214+22.73 back = Sta. 163+07.73 ahead						163.07.73			
F-70 1	Horn. 45° elbow, L.S. right	2.73	2.73	.00	2.73	163+05.00	-2.99	-.08	14.45
	Special P.S. to P.I.	1.41	1.41	.00	1.41	163+03.59	-2.99	-.04	14.41
	P.I. to P.B.								
1	Horn. length	16.03	16.03	.01	16.02	162+87.57	-2.99	-.48	13.93

APPROVED
CONSTRUCTION DEPARTMENT
SUBJECT TO CONDITIONS INDICATED
Approved by _____
the contractor of this project
since the contract does not contain
of any error which may exist.
RUSSELL & AXON
By _____ Consulting Engineers
Date _____

LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE June 16, 1964
 REVISIONS
 PREPARED BY M. K. Whipple

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					162+87.57	-2.00		13.93
F-71	1	Harn. 45° elbow, L.S. right Special P.S. to P.I. P.I. to P.B.	2.57 1.41	2.57 1.41		2.57 1.41	162+85.00 162+83.59	-2.99 -2.99	-0.08 -0.04	13.85 13.81
	1	Harn. length	16.03	16.03	.01	16.02	162+67.57	-2.00	.09	13.82
	1	Harn. half bevel, L.S. bottom Open jt. top (@15.97')	15.98	15.98		15.98	162+51.59	.00	.00	13.83
	1	Harn. length	16.03	16.03		16.03	162+35.56	.00		13.83
S-72	1	Harn. length, w/8" tang. flg. OL. 2' from S.E. left side bottom	16.03	16.03			162+19.53	.00	.00	13.83
	1	Harn. half bevel, L.S. bottom	15.97	15.97	.01		162+03.57	-3.65	+1.58	13.91
	7	Harn. lengths	16.03	112.21	.07		160+91.43	+3.65	+11.09	18.00
	1	Harn. half bevel, L.S. top Clamp S.E. only (@15.97')	15.98	15.98			160+75.45	+2.26	+1.04	18.04
	23	Lengths	16.03	368.69			157+06.76	+2.26	+1.96	19.00
S-73	1	Length, open jt. top (@16.03') w/8" tang. flg. OL. 2' from S.E. left side top	16.04	16.04			156+90.72	+1.14	-0.02	18.98
	11	Lengths	16.03	176.33		176.33	155+14.39	-1.14	-0.25	18.73
	1	Harn. length, clamp B.E. only	16.03	16.03		16.03	154+98.36	-1.14	-0.02	18.71
	1	Harn. half bevel, L.S. top Open jt. top (@15.97')	15.98	15.98	.01	15.97	154+82.39	-4.30	-0.69	18.02

APPROVED
 CONST. SUPERVISOR
 157-06-76
 Approved by the contractor in accordance to the contract of any error or omissions.
 RUSSELL & AXON, Inc. Engineers
 By: [Signature] Date: 156+90.72

Pike Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V. Part II

DATE January 2, 1966

REVISED (1) 3-21-66

PREPARED BY ALVIN W. JONES

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAY LENGTH	STATION	GRADE	ELEVATION	NOTED DEFLECTION
		36" Class 200 SP-3								
	8	Horn. lengths	16.03	128.24	.12	128.12	1482.39		1454.27	
S-74	1	Horn. half bevel, L.S. bottom w/8" tang. flg. 06. 2' from S.E. Left side bottom, op. jt. bottom (@15.97')	15.98	15.98		15.98	153+38.39			
	2	Horn. lengths	16.03	32.06		32.06				
	1	Horn. half bevel, L.S. bottom Open jt. bottom (@15.97')	15.98	15.98	.01	15.97				
	8	Horn. lengths	16.03	128.24	.11	128.13	1462.33			
S-75	1	Horn. half bevel, L.S. top w/8" tang. flg. 06. 2' from S.E. Left side top, open jt. top (@15.97') Clamp S.E. only	15.98	15.98		15.98	1449.15			
(1)	22	Lengths	16.03	352.66		352.66	147+93.49	.00	.00	18.50
(1)	F-93	1 P.E. x P.E. adapter Note: New laying steel pipe.	2.33	2.33		2.33	147+91.16	.00	.00	18.50
(1)	F-94	1 P.E. x P.E. adapter	2.09	2.09		2.09	133+04.79	-.16	.00	16.91
	1	Length open jt. bottom (@16.03')	16.04	16.04		16.04				
	1	Lengths	16.03	16.03		16.03				
		Horn. half bevel - clamp S.E. only	15.98	15.98		15.98				
	1	Horn. length open jt. top (@16.03')	16.04	16.04		16.04				

APPROVED
CONSTRUCTION DRAWING
DATE: 11/25/66
BY: *[Signature]*
Location Not Approved
7 Apr 66

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

NOTE: VARY JOINT SETTINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					2+00.07	.00		51.50
S-84	Horn. short length	10.43	10.43		10.43	2+34.64	.00	.00	51.50
F-85	Horn. 45° elbow, L.S. right P.S. to P.I. P.I. to P.B.	1.64	1.64		1.64	2+32.00	.00	.00	51.50
		1.41	1.41		1.41	2+31.59	.00	.00	51.50
F	Horn. lengths	16.03	128.24		128.24	1+02.35	.00	.00	51.50
F-86	Horn. 45° elbow, L.S. right P.S. to P.I. P.I. to P.B.	1.64	1.64		1.64	1+00.71	.00	.00	51.50
		1.41	1.41		1.41	99.30	.00	.00	51.50
F	Horn. lengths	16.03	96.18		96.18		.00	.00	51.50
F-87	Horn. dished bulthead plug								

END OF UNIT II.

APPROVED

CONST. 95.18

SUBJECT: LAYING

Approval of the contractor is hereby given in accordance with the contract documents and specifications, subject to the correction of any error which may appear hereon.

RUSSELL & AXON Engineers

By: *[Signature]* Date: _____

Price Brothers Company
LAYING SCHEDULE

OF NO. 217.55H - Unit 1

PROJECT Manatee County, Florida - Contract V

See Below

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. ENL LENGTH	TOTAL LAYING LENGTH	SLOPE CORR	...
MISCELLANEOUS MATERIALS SHIPPING LIST					
1009	36" laying gaskets				
1227	36" diapers				
262	36" wide diapers				
262	36" horn clamp ring saavs				
925	# Price lube in pails or drums as reqd				
2	Internal feeler gauges				
2	Joint stops				

Note: F-1 will not be used on this job.

REVISIONS

- (1) 11-17-65
- Pages 7 thru 11
- (2) 3-19-66
- Page 1 and MMSL

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED

Approval of this drawing is not a guarantee of the contractor of the responsibility of the contractor to the contract nor shall it relieve him of any error which may exist.

RUSSELL & AXON, Consulting Engineers

By [Signature] Date 7 Apr 66

Mandy

LAYING SCHEDULE

PROJECT

Manatee County Florida - Contract V Part II

DATE: January 2, 1958

VARY JOINT OPENING TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

PREPARED BY: H. N. Wheeler

	DESCRIPTION	JOINT LENGTH	TOTAL LENGTH	SLOPE CORR.	HOT LAM LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36' Class 200 SP-5					22+55.92	-0.10		42.50
S-82	1 Length, open jt bottom w/8" tang. flg. OL. 2' from S. E. Right side bottom	16.03	16.03		16.03	22+79.89	.00	.00	42.50
	4 Lengths	16.03	64.12		64.12	22+15.77	.00	.00	42.50
	1 Length, open jt. bottom (@16.03')	16.04	16.04		16.04	21+99.73	+0.61	+0.10	42.60
	1 Length, open jt. bottom (@16.03')	16.05	16.05		16.05	21+83.66	+1.45	+0.23	42.83
	27 Lengths	16.03	432.81	.05	432.76	17+50.92	+1.45	+6.25	44.08
	1 Length, open jt. 1/4" left side (@16.03')	16.04	16.04		16.04	17+34.88	+1.45	+0.23	49.31
	2 Lengths	16.03	32.06		32.06	17+02.82	+1.45	+0.46	49.77
	1 Length, open jt. top (@16.03')	16.05	16.05		16.05	16+86.77	+0.23	+0.04	49.81
	30 Lengths	16.03	480.90		480.90	12+05.87	+0.23	+1.11	50.92
	1 Length, open jt. top	16.03	16.03		16.03	11+89.84	+0.41	+0.06	50.98
	8 Lengths	16.03	128.24		128.24	10+61.60	+0.41	+0.52	51.50
S-83	1 Length, open jt. top w/8" tang. flg. OL. 2' from S.E. left side top	16.03	16.03		16.03	10+45.57	.00	.00	51.50
	44 Lengths	16.03	705.32		705.92	3+40.25	.00	.00	51.50
	1 Harn. length, clamp B.E. only	16.03	16.03		16.03	3+24.22	.00	.00	51.50
	5 Harn. lengths	16.03	80.15		80.15	2+44.07	.00	.00	51.50

APPROVED
 12-15-57
 ALL THE WORK
 SHALL BE
 TO THE SATISFACTION
 OF ANY
 RUSSELL & AXON
 BY

THE BRIDGE COMPANY
LAYING SCHEDULE

DATE: January 6, 1966
PREPARED BY: H.K. Wheeler

PROJECT: Manatee County, Florida - Contract V Part H

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNL. LENGTH	TOTAL LAID LENGTH	SLOPE COR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SF-5</u>					67+52.09	+1.13		19.95
1	Length, open jt. bottom (@16.03')	16.05	16.05		16.05	67+36.04	+1.15	+1.19	20.14
40	Lengths	16.03	641.20	.04	641.16	60+34.88	+1.15	+7.38	27.52
1	Length, open jt. top (@16.03')	16.04	16.04		16.04	60+78.84	+1.20	+1.11	27.63
39	Lengths	16.03	625.17	.02	625.15	54+53.69	+1.70	+4.36	31.99
1	Length, open jt. bottom (@16.03')	16.04	16.04		16.04	54+37.65	+1.37	+1.22	32.21
49	Lengths	16.03	785.47	.07	785.40	46+52.25	+1.37	+10.76	42.97
1	Length, open jt. top	16.03	16.03		16.03	46+36.22	+1.14	+1.18	43.15
43	Lengths	16.03	689.29	.06	689.99	39+46.99	+1.14	+7.85	51.00
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	39+30.94	+1.21	+1.03	51.03
73	Lengths	16.03	1170.19		1170.19	27+60.75	+1.21	+2.46	53.40
S-81	1 Length, open jt. top (@16.03') w/8" tang. flg. OL. 2' from S.E. right side top	16.04	16.04		16.04	27+44.71	-.40	-.06	53.43
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	27+28.65	-1.62	-.26	53.17
1	Length, open jt. top (@16.03')	16.05	16.05	.01	16.04	27+12.62	-2.60	-.42	52.75
24	Lengths	16.03	384.72	.12	384.60	23+28.02	-2.60	-10.00	42.75
1	Length, open jt. bottom (@16.03')	16.05	16.05		16.05	23+11.97	-1.38	-.22	42.53
1	Length, open jt. bottom (@16.03')	16.05	16.05		16.05	22+95.92	-.16	-.03	42.50

APPROVED
 CONSTRUCTION DRAWING
 SUBJECT: _____
 16.05
 Approval of _____
 the contractor or
 his representative
 in accordance with
 the contract conditions
 of any error which
 may appear hereon
 shall be the
 responsibility of
 the contractor.
 RUSSELL & AXON, Consulting Engineers
 By: _____
 Date: _____

Prime Builders Company
LAYING SCHEDULE

DATE: January 6, 1966
REVIEWED:
PREPARED BY: M. A. Wheeler

PROJECT: Manatee County, Florida - Contract V Part H

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36" Class 200 SP-5					101+82.41	.00		18.70
1	Half bevel, L.S. left, open jt. 3/8" right side-rotate for grade (@15.97')	15.99	15.99		15.99	100+86.42	+ .16	+ .03	18.73
29	Lengths	16.03	464.87		464.87	96+21.55	+ .16	+ .74	19.47
S-80 1	Length, open jt. top w/8" tang. flg. OL. 2' from S.E. Top right side	16.03	16.03		16.03	96+05.52	.00	.00	19.47
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	95+89.47	-1.22	-.20	19.27
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	95+73.42	-2.25	-.36	18.91
4	Lengths	16.03	64.12	.02	64.10	95+09.32	-2.25	-1.44	17.47
1	Length, open jt. bottom (@16.03')	16.05	16.05		16.05	94+93.27	-1.03	-.17	17.30
1	Length, open jt. bottom (@16.03')	16.05	16.05		16.05	94+77.22	.00	.00	17.30
4	Lengths	16.03	64.12		64.12	94+13.10	.00	.00	17.30
1	Length, open jt. bottom (@16.03')	16.04	16.04		16.04	93+97.06	+ .60	+ .10	17.40
1	Length, open jt. bottom (@16.03')	16.04	16.04		16.04	93+81.02	+1.15	+ .18	17.58
5	Lengths	16.03	80.15	.01	80.14	93+00.88	+1.15	+ .92	18.50
1	Length, open jt. top (@16.03')	16.05	16.05		16.05	92+84.83	.00	.00	18.50
87	Lengths	16.03	1394.61		1394.61	78+90.22	.00	.00	18.50
1	Length, open jt. bottom	16.03	16.03		16.03	78+74.19	+ .13	+ .02	18.52
70	Lengths	16.03	1122.10		1122.10	67+52.09	+ .13	+1.43	19.95

APPROVED
 15.99
 DRAWING
 INDICATED
 the contractor shall not relieve
 end to the
 of any error
 RUSSELL & AXON
 Consulting Engineers
 By: [Signature]
 Date: 1-11-66

THE DESIGN COMPANY
LIVING SCHEDULE

DATE: January 6, 1966
 PREPARED BY: R.E. [unclear]

PROJECT: Manatee County, Florida - Contract V Part II

FOR JOINT OPENINGS TO OBTAIN THE REQUIRED GRADE, ELEVATION AND HORIZONTAL DIRECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAD LENGTH	SLOPE CORR.	HOR. LAD LENGTH	STATION	GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	36" Class 200 SP-5					131+10.32	.00		17.20
P-76	1 Harn. 40°36' elbow, L.S. left								
	P.S. to P.I.	1.50	1.50		1.50	131+08.82	.00	.00	17.20
	P.I. to P.B.	1.27	1.27		1.27	131+07.55	.00	.00	17.20
	2 Harn. lengths	16.03	32.06		32.06	130+75.49	.00	.00	17.20
P-77	1 Harn. P.S. x P.E. adapter w/2" I.P. OL. @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	130+71.16	.00	.00	17.20
P-78	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	130+71.02	.00	.00	17.20
	1 36" butterfly valve (not by P.B. Co.)	1.83	1.83		1.83	130+69.19	.00	.00	17.20
P-79	1 Flg. x Harn. P.B. adapter w/2" I.P. OL. @ B.E.	1.23	1.23		1.23	130+67.96	.00	.00	17.20
	3 Harn. lengths	16.03	48.09		48.09	130+19.87	.00	.00	17.20
	1 Harn. length, clamp S.E. only	16.03	16.03		16.03	130+03.84	.00	.00	17.20
	1 Length, open jt. bottom	16.03	16.03		16.03	129+87.81	+.10	+.02	17.22
	5 Lengths	16.03	80.15		80.15	129+07.66	+.10	+.08	17.30
	1 Length, open jt. top	16.03	16.03		16.03	128+91.63	.00	.00	17.30
	49 Lengths	16.03	785.47		785.47	121+06.16	.00	.00	17.30
	1 Length, open jt. bottom	16.03	16.03		16.03	120+90.13	+.12	+.02	17.32
	72 Lengths	16.03	1154.16		1154.16	109+35.97	+.12	+1.38	18.70
	1 Length, open jt. top	16.03	16.03		16.03	109+19.94	.00	.00	18.70
	51 Lengths	16.03	817.53		817.53	101+02.41	.00	.00	18.70

APPROVED
 2.35
 CONST. ENGINEER
 SUBJECT TO THE DRAWING
 2.14
 130+71.02
 Approval of the contractor is given in accordance with the contract and no liability of any error shall be assumed by the engineer.
 RUSSELL & AXOM Consulting Engineer
 By: [Signature] Date: 1/11/66

217.05H - Unit 1

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V

See Below

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. INT LENGTH	TOTAL LAID LENGTH	SLOPE CORR	NET LENGTH
<u>MISCELLANEOUS MATERIALS SHIPPING LIST</u>					
1489	36" laying gaskets				
1227	36" diapers				
262	36" wide diapers				
262	36" horn clamp ring assays				
925	# Price tube in pails or drums as reqd				
2	Internal feeler gauges				
2	Joint stops				

REVISIONS

- (1) 11-17-65
Pages 7 thru 14
- (2) 3-19-66
Page 1 and MMSL

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED

Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract nor shall it relieve him of any error which may exist.

RUSSELL & AXON, Consulting Engineers
By [Signature] Date 7 Apr 66

Note: F-1 will not be used on this job.

Maady

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE January 6, 1966

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY M.K. Wheeler

	N.O.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH		% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					2+10.07	.00		51.50
S-84	1	Horn. short length	10.43	10.43		10.43	2+31.64	.00	.00	51.50
F-85	1	Horn. 45° elbow, L.S. right								
		P.S. to P.I.	1.64	1.64		1.64	2+32.00	.00	.00	51.50
		P.I. to P.B.	1.41	1.41		1.41	2+33.59	.00	.00	51.50
	8	Horn. lengths	16.03	128.24		128.24	1+02.35	.00	.00	51.50
F-86	1	Horn. 45° elbow, L.S. right								
		P.S. to P.I.	1.64	1.64		1.64	1+03.71	.00	.00	51.50
		P.I. to P.B.	1.41	1.41		1.41	00+40	.00	.00	51.50
	8	Horn. lengths	16.03	96.18		96.18		.00	.00	51.50
F-87	1	Horn. dished bulhead plug								

END OF UNIT II.

APPROVED
 CONTRACT SUPERVISOR
 Approved by _____
 the contractor _____
 effective _____
 of any error _____
RUSSELL & AXON
 By _____
 Date _____

Prior Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part II

DATE September 29, 1965
 DESIGNED BY (1) 11-17-65
 PREPARED BY D.M. Lamin

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	GRADE	CHANG. IN GRADE	N	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					503+84.25	-0.21			1.51
	1	Harn. length (clamp B.E. only)	16.03	16.03		16.03	503+68.25	-0.21	-0.03		1.49
	1	Harn. length	16.03	16.03		16.03	503+52.25	-0.21	-0.03		1.48
	4	Harn. lengths (10 ga. cyl.)	16.03	64.12		64.12	502+38.25	-0.21	-0.13		1.32
STATION EQUATION: Sta. 502+88.08 back = Sta. 500+76.08 ahead							500+76.08				1.32
S-18	1	Harn. short (open jt. bottom) (10 ga. cyl.)	4.79	4.79		4.79	500+71.29	0.00	0.00		1.32
F-19	1	Harn. 33°45' elbow, L.S. left	1.29	1.29		1.29	500+70.00	0.00	0.00		1.32
		(Rotate for grade) P.S. to P.I. P.I. to P.B.	1.05	1.05		1.05	500+68.95	-2.14	-0.02		1.30
H-10	2	Harn. lengths (10 ga. cyl.)	16.03	32.06		32.06	500+36.99	-2.14	-0.68		1.62
H-10+	3	Harn. lengths (10 ga. cyl. + bars)	16.03	48.18		48.18	499+81.71	-2.14	-1.02		1.40
S-20	1	Harn. short (10 ga. cyl. + bars)	2.07	2.07		2.07	499+86.64	-2.14	-0.04		1.44
F-21	1	Harn. 45°0' elbow (L.S. left)	1.64	1.64		1.64	499+85.00	-2.14	-0.04		1.48
		(Rotate for grade) P.S. to P.I. P.I. to P.B.	1.41	1.41		1.41	499+83.59	0.00	0.00		1.48
S-22	1	Harn. short (10 ga. cyl. + bars)	4.26	4.26		4.26	499+79.33	0.00	0.00		1.48
F-23	1	Harn. 36" P.B. x harn. 36" P.B. x harn. 36" P.S. 45° wye	6.33	6.33		6.33	499+73.00	0.00	0.00		1.48
		Branch P.S. to P.I.	6.33	6.33		6.33	499+73.00	0.00	0.00		1.48
		Start at P.I. of wye (F-23) and lay west	6.09	6.09		6.09	0+00.00	0.00	0.00		1.48
		P.I. to P.B. of wye (F-23)	6.09	6.09		6.09	0+06.09	0.00	0.00		1.48

2.065

Pipe Brothers Company

LAYING SCHEDULE

JOB NO. 217.65N - Unit I

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED
PREPARED BY D.M. Laming

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION		CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					541+42.82			8.09
56	Lengths	16.03	897.68		897.68	532+45.14		0.00	8.09
1	Length (open jt. 1/8" top) (@16.03')	16.04	16.04		16.04	532+29.10		-.06	8.03
33	Lengths	16.03	528.99		528.99	527+00.11		-1.92	6.11
1	Length (open jt. bottom)	16.03	16.03		16.03	526+84.08		-.03	6.08
52	Lengths	16.03	833.56		833.56	518+50.52		-1.50	4.58
1	Length (open jt. top)	16.03	16.03		16.03	518+34.49		-.03	4.55
22	Lengths	16.03	352.66		352.66	514+81.83		-.74	3.81
	NOTE: Open joints as necessary for horizontal curve								
1	Warn. length (clamp B.E. only)	16.03	16.03		16.03	514+65.80		-.03	3.78
22	Warn. lengths	16.03	352.66		352.66	511+13.14		-.74	3.04
1	Warn. length (clamp S.E. only)	16.03	16.03		16.03	510+97.11		-.03	3.01
44	Lengths	16.03	705.32		705.32	503+91.79		-1.48	1.53
F-15	1 P.S. x P.E. adapter w/2" I.P. O.L. @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	503+89.46		.00	1.53
F-16	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	503+87.32		.00	1.53
	1 36" Butterfly valve (not by P.B. Co.)	1.83	1.83		1.83	503+85.49		.00	1.53
F-17	1 P.B. x flg. adapter w/2" I.P. O.L. @ B.E.	1.23	1.23		1.23	503+84.26		-.02	1.51

APPROVED
 CO. STRUCTURAL DRAWING
 RUSSELL & AXON, Inc.
 16, 1965

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED _____

PREPARED BY D.M. Laming

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					550+31.79	0.00		2.98
S-10	1 Harn. length w/8" tan. flg. OL Bottom left 2" from S.E.	16.03	16.03		16.03	550+15.76	0.00	0.00	2.98
	1 Harn. length	16.03	16.03		16.03	549+99.73	0.00	0.00	2.98
	1 Harn. half bevel (L.S. bottom) (Rotate for horizontal deflection)	15.97	15.97		15.97	549+83.77	+4.15	+.66	3.64
	8 Harn. lengths	16.03	128.24		128.24	548+55.61	+4.15	+5.34	8.98
	1 Harn. half bevel (L.S. top) (Rotate for horizontal deflection)	15.97	15.97		15.97	548+39.64	0.00	0.00	8.98
S-11	1 Harn. length w/8" tan. flg. OL Top left 2' from S.E.	16.03	16.03		16.03	548+23.61	0.00	0.00	8.98
F-12	1 Harn. P.S. x P.E. adapter w/2" I.P. OL. @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	548+21.28	0.00	0.00	8.98
F-13	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	548+19.14	0.00	0.00	8.98
	1 36" Butterfly valve (not by P.B. Co.)	1.83	1.83		1.83	548+17.31	0.00	0.00	8.98
F-14	1 P.B. x Flg. adapter w/2" I.P. OL. @ B.E.	1.23	1.23		1.23	548+16.08	0.00	0.00	8.98
	1 Length (open jt. top)	16.03	16.03		16.03	548+00.05	-.13	-.02	8.96
	40 Lengths	16.03	641.20		641.20	541+58.85	-.13	-.87	8.09
	1 Length (open jt. bottom)	16.03	16.03		16.03	541+42.82	0.00	0.00	8.09

APPROVED
CONSULTING ENGINEER
RUSSELL & ARON, CONSULTING ENGINEERS
By: *[Signature]* Date: *10/4/65*

Price Brothers Company
LAYING SCHEDULE

NO. 217 65H - Unit I

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

REVISIONS
PREPARED BY D. M. Laming

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		Start at east side of Morgan Johnson Canal Crossing and lay North.					615+92.00	+ 13		8.71
		<u>36" Class 200 SP-5</u>								
F-1	1	Harn. P.B. x P.E. adapter	2.33	2.33			615+89.67	+ 13	0.00	8.71
	1	Harn. half bevel (L.S. left) (open jt. 3/8" left side) (@15.97')	15.98	15.98			615+73.69	+ 13	+ 02	8.73
	9	Harn. lengths	16.03	144.27			614+29.42	+ 13	+ 19	8.92
	1	Harn. half bevel (L.S. right) (open jt. 3/8" right side) (@15.97')	15.98	15.98			614+13.44	+ 13	+ 02	8.94
	1	Harn. length (clamp S.E. only)	16.03	16.03			613+97.1	+ 13	+ 02	8.96
	34	Lengths	16.03	545.02			608+52.39	+ 13	+ .71	9.67
S-2	1	Length w/8" tan. fig. Cl. Top left 2' from S.E.	16.03	16.03			608+36.36	+ 13	+ .02	9.69
	1	Length (open jt. 1/2" top) (@16.03')	16.05	16.05			608+20.31	-1.00	- .18	9.51
	8	Lengths	16.03	128.24			606+92.07	-1.09	-1.40	8.11
	1	Half bevel (L.S. top) (open jt. 1/2" bottom) (@15.97')	15.98	15.98	.01	15.97	606+76.10	-3.73	- .59	7.52
	7	Lengths	16.03	112.21	.07	112.14	605+63.96	-3.73	-4.18	3.34
	1	Harn. length (clamp B.E. only)	16.03	16.03	.01	16.02	605+47.94	-3.73	- .59	2.75
	1	Harn. half bevel (L.S. bottom)	15.96	15.96		15.96	605+31.98	0.00	0.00	2.75
S-3	1	Harn. length w/8" tan. fig. Cl. Bottom left 2' from S.E.	16.03	16.03		16.03	605+15.95	0.00	0.00	2.75

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED
Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract nor of any error which may result therefrom.
DUBELL & AXON, CONSULTING ENGINEERS
D-8 10/1/65

Price Brothers Company
LAYING SCHEDULE

DATE September 29, 1965

REVISED _____
PREPARED BY D.M. Laming

JOB NO. 217.65H - Unit I

PROJECT Manatee County, Florida - Contract V Part H

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					605+15.95	0.00		2.75
2	Harn. lengths	16.03	32.06		32.06	604+83.89	0.00	0.00	2.75
1	Harn. half bevel (L.S. bottom) (open jt. 1/8" top) (@15.97')	15.97	15.97	.01	15.96	604+67.93	+3.00	.58	3.33
9	Harn. lengths	16.03	144.27	.09	144.18	603+23.75	+3.60	+5.18	3.51
1	Harn. half bevel (L.S. top) (open jt. 3/8" bottom) (@15.97) (Clasp S.E. only)	15.98	15.98		15.98	603+07.77	+74	+1.12	8.63
10	Lengths	16.03	160.30		160.30	601+48.47	+74	+1.19	9.87
1	Length (open jt. 1/4" top) (@16.03')	16.04	16.04		16.04	601+31.43	0.00	0.00	9.82
14	Lengths	16.03	224.42		224.42	599+07.01	0.00	0.00	9.82
1	Length (open jt. 1/4" bottom) (@16.03')	16.04	16.04		16.04	598+90.97	+47	.07	9.89
20	Lengths	16.03	320.60		320.60	595+70.37	+47	+1.51	11.40
S-4	1 Length w/8" tan. flg. OL. top left 14' from S.E. (open jt. 1/4" top) (@16.03')	16.04	16.04		16.04	595+54.33	0.00	0.00	11.40
F-5	1 P.S. x P.E. adapter w/2" I.P. OL. @ S.E. P.E. = 37.96" O.D.	2.33	2.33		2.33	595+52.00	0.00	0.00	11.40
F-6	1 P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	595+49.86	0.00	0.00	11.40
	1 36" butterfly valve (not by P.B. Co.)	1.83	1.83		1.83	595+48.03	0.00	0.00	11.40
F-7	1 P.B. x flg. adapter w/2" I.P. OL. @ E.E.	1.23	1.23		1.23	595+45.80	0.00	0.00	11.40

APPROVED
144 CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED
Approval of this drawing does not relieve the contractor of the responsibility of adherence to the contract nor shall it relieve him of any error which may exist.
RUSSELL & AXON, Consulting Engineers
By *[Signature]* Date *10/2/65*

Price Brothers Company

LAYING SCHEDULE

NO. 217,65H - Unit I

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED

PREPARED BY D.M. Laming

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					595+46.80	0.00		11.40
82	Lengths	16.03	1314.46		1314.46	582+32.34	0.00	0.00	11.40
1	Horn. length (clamp B.E. only)	16.03	16.03		16.03	582+16.31	0.00	0.00	11.40
1	Horn. length	16.03	16.03		16.03	582+00.28	0.00	0.00	11.40
1	Horn. half bevel (L.S. top) (open jt. 1/8" bottom) (@15.97') (Rotate for horizontal deflection)	15.98	15.98	.01	15.97	581+84.31	-3.33	-0.53	10.87
8	Horn. lengths	16.03	128.24	.57	127.67	580+56.72	-3.33	-4.27	6.60
1	Horn. half bevel (L.S. bottom) (open jt. 1/8" top) (@15.97') (Rotate for horizontal deflection)	15.98	15.98		15.98	580+40.73	0.00	0.00	6.60
8-8	1 Horn. length w/8" tan. flg. OL. bottom Left 4' from S.E.	16.03	16.03		16.03	580+24.70	0.00	0.00	6.60
2	Horn. lengths	16.03	32.06		32.06	579+92.64	0.00	0.00	6.60
1	Horn. half bevel (L.S. bottom) (open jt. 3/8" top) (@15.97') Rotate for horizontal deflection	15.98	15.98	.01	15.97	579+76.67	+2.88	+0.46	7.06
8	Horn. lengths	16.03	128.24	.57	127.67	578+49.00	+2.88	+3.60	10.75
1	Horn. half bevel (L.S. top) (open jt. 3/8" bottom) (@15.97') Rotate for horizontal deflection	15.98	15.98		15.98	578+33.02	0.00	0.00	10.75
8-9	1 Horn. length, w/8" tan. flg. OL. top left 2' from S.E.	16.03	16.03		16.03	578+16.99	0.00	0.00	10.75

APPROVED
CONSTRUCTION DRAWING
SUBJECT TO REVISIONS INDICATED

I, the contractor of the work herein, hereby agree to hold the contractor responsible for any error which may exist.

RUSSELL & AXON, Consulting Engineers
By *[Signature]* Date 8/26/65

NO. 217.65H - Imft I

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

REVISIONS _____
PREPARED BY D.M. Leming

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAY LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					578+16.99	0.00		10.75
1	Horn. length (open jt. top) (Clamp S.E. only)	16.03	16.03		16.03	578+00.96	-0.21	-0.03	10.72
34	Lengths	16.03	545.02		545.02	572+55.94	-0.21	-1.14	9.58
1	Length (open jt. 1/4" bottom) (@16.03')	16.04	16.04		16.04	572+39.90	+0.21	0.05	9.61
34	Lengths	16.03	545.02		545.02	566+94.88	+0.21	1.14	10.75
1	Length, (open jt. top)	16.03	16.03		16.03	566+78.85	0.00	0.00	10.75
11	Lengths	16.03	176.33		176.33	565+02.52	0.00	0.00	10.75
STATION EQUATION: Sta. 565+02.52 back = Sta. 566+02.52 ahead									
3	Lengths	16.03	48.09		48.09	565+54.43	0.00	0.00	10.75
1	Length (open jt. top)	16.03	16.03		16.03	565+38.40	-0.13	-0.02	10.73
82	Lengths	16.03	1314.46		1314.46	552+23.94	-0.13	-1.71	9.02
1	Horn. length (Clamp B.E. only)	16.03	16.03		16.03	552+07.91	-0.13	-0.02	9.00
1	Horn. length	16.03	16.03		16.03	551+91.88	-0.13	-0.02	8.98
1	Horn. half bevel (L.S. top) (Rotate for horizontal deflection)	15.97	15.97	.01	15.96	551+75.92	-4.15	-0.66	8.32
8	Horn. lengths	16.03	128.24	.08	128.16	550+47.76	-4.15	-5.34	2.98
1	Horn. half bevel (L.S. bottom) (Rotate for horizontal deflection)	15.97	15.97		15.97	550+31.79	0.00	0.00	2.98

APPROVED
CONSTRUCTED BY D.M. LEMING
SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT AND THE GENERAL CONDITIONS OF CONTRACT.
I, the undersigned, hereby certify that the above is a true and correct copy of the original of the contract and the general conditions of contract.
By [Signature] Date 9/29/65
RUSSELL & AXON, Consulting Engineers

Price Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

PREPARED BY D.M. Laming

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		36" Class 200 SP-5					490+89.56	0.00		1.89
	1	Length (open jt. bottom)	16.03	16.03		16.03	490+73.53	+0.33	+0.05	1.94
	39	Lengths	16.03	625.17		625.17	484+48.36	+0.33	+2.06	4.00
	1	Length (open jt. top)	16.03	16.03		16.03	484+32.33	0.00	0.00	4.00
	19	Lengths	16.03	304.57		304.57	481+27.76	0.00	0.00	4.00
		NOTE: Open joints as necessary for horizontal curve								
	22	Lengths	16.03	352.66		352.66	477+75.10	0.00	0.00	4.00
	1	Length (open jt. bottom)	16.03	16.03		16.03	477+59.07	+0.89	+0.14	4.14
	25	Lengths	16.03	400.75		400.75	473+58.22	+0.89	+3.56	7.70
	1	Length (open jt. top)	16.03	16.03		16.03	473+42.19	0.00	0.00	7.70
	92	Lengths	16.03	1474.76		1474.76	458+67.43	0.00	0.00	7.70
S-26	1	Harn. length, w/8" tan. flg. OL. top right 2' from S.E. (Open jt. top) (Clamp B.E. only)	16.03	16.03		16.03	458+51.40	-0.88	-0.14	7.56
		NOTE: Open joints as necessary for horizontal curve.								
	9	Harn. lengths	16.03	144.27		144.27	457+07.13	-0.88	-1.26	6.30
S-27	1	Harn. length w/8" tan. flg. OL. bottom right 2' from S.E. (open jt. bottom)	16.03	16.03		16.03	456+91.10	0.00	0.00	6.30
	2	Harn. lengths	16.03	32.06		32.06	456+59.04	0.00	0.00	6.30

LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY D.M. Laming

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SEWER CORK	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 270 SF-5</u>					456+59.04	0.00		6.30
	1	Horn. length (open jt. bottom)	16.05	16.05		16.05	456+42.99	+1.22	+ .19	6.49
	1	Horn. length (open jt. bottom)	16.04	16.04		16.04	456+26.95	+1.38	+ .22	6.71
	8	Horn. lengths	16.03	128.24		128.24	454+98.71	+1.38	+1.77	8.48
	1	Horn. length (open jt. top) Clamp S.E. only	16.05	16.05		16.05	454+82.66	+ .16	+ .02	8.50
	1	Length (open jt. top)	16.03	16.03		16.03	454+66.63	0.00	0.00	8.50
	26	Lengths	16.03	416.78		416.78	450+49.85	0.00	0.00	8.50
	1	Length (open jt. bottom)	16.03	16.03		16.03	450+33.82	+ .32	+ .06	8.56
		NOTE: Open joints as necessary for horizontal curve.								
	21	Lengths	16.03	336.63		336.63	446+97.19	+ .37	+1.24	9.80
	1	Length (open jt. top)	16.03	16.03		16.03	446+81.16	0.00	0.00	9.80
	46	Lengths	16.03	737.38		737.38	439+43.78	0.00	0.00	9.80
F-28	1	P.S. x P.E. adapter w/2" I.P. OL. @ S.E. (P.E. = 37.96" O.D.)	2.33	2.33		2.33	439+41.45	0.00	0.00	9.80
F-29	1	P.E. x flg. adapter (P.E. = 37.96" O.D.)	2.14	2.14		2.14	439+39.31	0.00	0.00	9.80
	1	36" Butterfly valve (Not by P.B. Co.)	1.83	1.83		1.83	439+37.48	0.00	0.00	9.80
F-30	1	Horn. P.B. x flg. adapter w/2" I.P. OL. @ B.F.	1.23	1.23		1.23	439+36.25	0.00	0.00	9.80

Price Brothers Company

LAYING SCHEDULE

NO. 217.65R - Unit I

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

PREPARED BY D.M. Laming

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	V. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					439+36.25	0.00		9.80
S-31	1	Harn. length w/8" tan. flg. OL. 2' from S.E. top right	15.03	16.03		16.03	439+20.22	0.00	0.00	9.80
	1	Harn. half bevel (L.S. top)	15.97	15.97	.01	15.96	439+04.26	-4.68	-.75	9.05
	9	Harn. lengths	16.03	144.27	.09	144.18	437+60.08	-4.68	-6.75	2.30
	1	Harn. half bevel (L.S. bottom)	15.97	14.97		14.97	437+44.11	0.00	0.00	2.30
S-32	1	Harn. length w/8" tan flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	437+28.08	0.00	0.00	2.30
	1	Harn. half bevel (L.S. bottom)	15.97	15.97	.01	15.96	437+12.12	+4.68	+.75	3.05
	9	Harn. lengths	16.03	144.27	.09	144.18	435+67.94	+4.68	+6.75	9.80
	1	Harn. half bevel (L.S. top)	15.97	15.97		15.97	435+51.97	0.00	0.00	9.80
S-33	1	Length w/8" tan. flg. OL. Top right 2' from S.E. (Clamp S.E. only)	16.03	16.03		16.03	435+35.94	0.00	0.00	9.80
		NOTE: Open joints as necessary for horizontal curve.								
	123	Lengths	16.03	1971.69		1971.69	415+64.25	0.00	0.00	9.80
	1	Harn. length (clamp S.E. only)	16.03	16.03		16.03	415+48.22	0.00	0.00	9.80
	1	Harn. length (open jt. top)	16.05	16.05		16.05	415+32.17	-.81	-.13	9.67
	9	Harn. lengths	16.03	144.27		144.27	413+87.00	-.81	-1.17	8.50

20x05

NO. 217.65H - Unit 1

Price Brothers Company
LAYING SCHEDULE

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PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

PREPARED BY D. M. Laming

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS

	NO.	DESCRIPTION	UNIT LENGTH	TOTAL UNIT LENGTH	SLOPE CORR.	HORIZONTAL LENGTH	STATION	GRADE	CHANGE IN ELEVATION	ENTER LINE ELEVATION
		36" Class 200 SP-5					0+06.09	0.00		- .48
H-10+	1	Harn. length (10 ga. cyl. + bars)	16.03	16.03		16.03	0+22.12	0.00	0.00	- .48
F-24	1	Harn. dish B.H. plug								
		Start at P.I. of wye (F-23) and lay east	P.I. of wye = Sta.	499+16.50			499+73.00	0.00	0.00	- .48
		P.I. to P.B. of wye (F-23)	2.09	2.09		2.09	499+70.91	0.00	0.00	- .48
H-10+	3	Harn. lengths (10 ga. cyl. + bars)	16.03	48.09		48.09	499+22.82	0.00	0.00	- .48
H-10	5	Harn. lengths (10 ga. cyl.)	16.03	80.15		80.15	498+42.67	0.00	0.00	- .48
H-10	1	Harn. half bevel (L.S. top) (10 ga. cyl.)	15.97	15.97	.01	15.96	498+21.71	-2.62	- .42	- .40
	9	Harn. lengths	16.03	144.27	.05	144.22	496+82.49	-2.62	-3.78	-4.68
	1	Harn. half bevel (L.S. bottom)	15.97	15.97		15.97	496+66.52	0.00	0.00	-4.68
S-25	1	Harn. length w/8" tan. flg. OL. Bottom right 2' from S.E.	16.03	16.03		16.03	496+50.49	0.00	0.00	-4.68
	2	Harn. lengths	16.03	32.06		32.06	496+78.43	0.00	0.00	-4.68
	1	Harn. half bevel (L.S. bottom)	15.97	15.97	.01	15.96	496+02.47	+4.10	+ .66	-4.02
	9	Harn. lengths	16.03	144.27	.09	144.18	494+58.29	+4.10	+5.91	1.89
	1	Harn. half bevel (L.S. top) (Clamp S.E. only)	15.97	15.97		15.97	494+42.22	0.00	0.00	1.89
	22	Lengths	16.03	352.66		352.66	490+89.56	0.00	0.00	1.89

Price Brothers Company
LAYING SCHEDULE

NO. 27.65H - Unit I

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

PREPARED BY D.M. Laming

DO NOT VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
	<u>36" Class 200 SP-5</u>					413+87.90	-0.81		8.50
1	Horn. length (open jt. bottom)	16.05	16.05		16.05	413+80.35	0.00	0.00	8.50
1	Horn. length w/8" tan. flg. OL. Bottom right 2' from S.E.	16.03	16.03		16.03	413+55.82	0.00	0.00	8.50
1	Horn. length (open jt. bottom)	16.05	16.05		16.05	413+39.77	+0.81	+0.13	8.63
9	Horn. lengths	16.03	144.27		144.27	411+95.50	+0.81	+1.17	9.80
1	Horn. length (open jt. top (Clamp S.E. only)	16.05	16.05		16.05	411+79.45	0.00	0.00	9.80
24	Lengths	16.03	384.72		384.72	407+94.73 <i>Q</i>	0.00	<i>2000</i> 0.00	9.80
1	Length (open jt. bottom)	16.03	16.03		16.03	407+78.70	+0.20	+0.03	9.83
14	Lengths	16.03	224.42		224.42	405+54.28	+0.20	+0.47	10.30
1	Length (open jt. top)	16.03	16.03		16.03	405+38.25	+0.00	+0.00	10.30
27	Lengths	16.03	432.81		432.81	401+05.44	0.00	0.00	10.30
1	Length (open jt. bottom)	16.05	16.05		16.05	400+89.39	+1.38	+0.22	10.52
1	Length (open jt. bottom)	16.03	16.03		16.03	400+73.36	+1.78	+0.28	10.80
14	Lengths	16.03	224.42		224.42	398+48.94	+1.78	+4.00	14.80
1	Length (open jt. top)	16.05	16.05		16.05	398+32.89	+0.56	+0.09	14.89
1	Length (open jt. top)	16.04	16.04		16.04	398+16.85	0.00	0.00	14.89

NOTE: Open joints as necessary for horizontal curve.

Piso Brothers Company
LAYING SCHEDULE

PROJECT Manatee County, Florida - Contract V Part H

DATE September 29, 1965

REVISED (1) 11-17-65

PREPARED BY D.M. Laming

NOTE VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATIC	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		<u>36" Class 200 SP-5</u>					398+16.85	0.00		14.89
	3	Lengths	16.03	48.09		48.09	397+68.76	0.00	0.00	14.89
S-35	1	Horn. length (clamp B.E. only) w/8" tan. flg. OL. top right 2' fr. S.E.	16.03	16.03		16.03	397+52.73	0.00	0.00	14.89
	1	Horn. half bevel (L.S. top) (Rotate for horizontal deflection)	15.97	15.97	.01	15.96	397+36.77	3.13	-.50	14.49
	8	Horn. lengths	16.03	128.24	.06	128.18	396+08.59	3.13	-4.00	10.49
	1	Horn. half bevel, (L.S. bottom) (Rotate for horizontal deflection)	15.97	15.97		15.97	395+92.62	0.00	0.00	10.49
S-36	1	Horn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	395+76.59	0.00	0.00	10.49
	2	Horn. lengths	16.03	32.06		32.06	395+44.55	0.00	0.00	10.49
	1	Horn. half bevel (L.S. bottom) (Rotate for horizontal deflection)	15.97	15.97	.01	15.96	395+28.57	+ .88	+ .14	10.63
	8	Horn. lengths	16.03	128.24	.06	128.18	394+00.39	+ .88	+ 1.13	11.76
	1	Horn. half bevel (L.S. top) (Rotate for horizontal deflection)	15.97	15.97		15.97	393+84.42	0.00	0.00	11.76
	1	Horn. length (clamp S.E. only)	16.03	16.03		16.03	393+68.39	0.00	0.00	11.76
	48	Lengths	16.03	769.44		769.44	385+98.95	0.00	0.00	11.76
	1	Length (open jt bottom)	16.03	16.03		16.03	385+82.72	+ .18	+ .03	11.79
	22	Lengths	16.03	352.66		352.66	382+30.26	+ .18	+ .63	12.42

JOB NO. 217,65H - Unit I

Pipe Builders Company
LAYING SCHEDULE

PAGE 14 OF 14 PAGES

DATE September 29, 1965

PROJECT Manatee County, Florida - Contract V Part H

REVISED (1) 11-17-65

NOTE: VARY JOINT OPENINGS TO OBTAIN THE REQUIRED GRADES, ELEVATIONS AND HORIZONTAL DEFLECTIONS.

PREPARED BY D.M. Laming

	NO.	DESCRIPTION	AV. UNIT LENGTH	TOTAL LAID LENGTH	SLOPE CORR.	HOR. LAID LENGTH	STATION	% GRADE	CHANGE IN ELEVATION	CENTER LINE ELEVATION
		36" Class 200 SP-5					382+30.26	+ .18		12.45
S-37	1	Horn. length w/8" tan. flg. OL. top right 15' from S.E. (clamp S.E. only)	16.03	16.03		16.03	382+14.23	+ .18	+ .03	12.45
	1	Horn. length (open jt. top)	16.04	16.04		16.04	381+98.19	- .69	- .11	12.34
	8	Horn. lengths	16.03	128.24		128.24	380+59.95	- .69	- .89	11.45
	1	Horn. length (open jt. bottom)	16.04	16.04		16.04	380+53.91	0.00	0.00	11.45
S-38	1	Horn. length w/8" tan. flg. OL. bottom right 2' from S.E.	16.03	16.03		16.03	380+37.88	0.00	0.00	11.45
	2	Horn. lengths	16.03	32.06		32.06	380+05.82	0.00	0.00	11.45
	1	Horn. length (open jt. bottom)	16.04	16.04		16.04	379+89.78	+ .75	+ .12	11.57
	9	Horn. lengths	16.03	144.27		144.27	378+95.51	+ .75	+ 1.08	12.65
	1	Horn. length (open jt. top) (clamp S.E. only)	16.04	16.04		16.04	378+29.47	0.00	0.00	12.65

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NOTES ON PIPE LAYING SCHEDULE

Abbreviations generally used on Price Brothers Laying Schedule and on detail drawings

ADPT	Adapter	FSB	Flat Side Bottom	OD	Outside Diameter
AMJS	Anchored Mechanical Joint Spigot	FSL	Flat Side Left	OJ	Open Joint
AN	Anchored	FSR	Flat Side Right	OL	Outlet
B or BOT	Bottom	FST	Flat Side Top	PB	Price Bell
BL	Bottom Left	FSE	From Spigot End	PE	Plain End
BR	Bottom Right	FWB	Field Welded Bell	PL	Plate
BA	Ball Joint	FWS	Field Welded Spigot	PI	Point of Intersection
BE	Bell End	G or GA	Cylinder Gauge	PS	Price Spigot
BEV	Beveled	(H)	Horizontal	PT	Paint
BH	Bulkhead	HB	Half Bevel	RT	Right
BLD FLG	Blind Flange	HC	Harness Clamp Joint	RMC	Raised Mortar Coating
BN	Bonded Joint	HHB	Heavy Harness Bell	RED	Reducer
BO	Blowoff	HHC	Heavy Harness Clamp Joint	RFG	Rotate For Grade
CIB	Cast Iron Bell	HHS	Heavy Harness Spigot	RMCS	Raised Mortar Coat Skids
CIS	Cast Iron Spigot	HPB	Harnessed Price Bell	SE	Spigot End
CL	Centerline	HPS	Harnessed Price Spigot	SH	Short
CLOS	Closure	HW	Heavy Wall Pipe	SL	Springline
CONC	Concentric	HW BAR	Hardway Bar	SR	Snap Ring Joint
CTE	Coal Tar Epoxy INT & EXT	ICTE	Internal Coal Tar Epoxy Paint	SRw/NB	Snap Ring w/Nose Bar
C300	AWWA C300 Pipe	ID	Inside Diameter	SRB	Snap Ring Bell
C302	AWWA C302 Pipe	ISC	Internal Seal Coat Paint	SRS	Snap Ring Spigot
D or DEG	Degrees	INV	Invert	SS	Short Side
DP	Deep Joint	INT	Internal	STA	Station
DHPB	Deep Harness Price Bell	IWHE	Internal White Epoxy Paint	STR	Straight (Standard Pipe Length)
DHPS	Deep Harness Price Spigot	JT	Joint	SUB	Subaqueous Joint
DPB	Deep Price Bell	LT	Left	SWJ	Shop Welded Joint
DPS	Deep Price Spigot	LCP	Lined Cylinder Pipe	T	Top
DWC	Double Wrap & Coat	LGTH	Length	TL	Top Left
ECC	Eccentric	LPE	Lugged Plain End	TR	Top Right
ECP	Embedded Cylinder Pipe	LS	Long Side	TN or TAN	Tangent
ECTE	External Coal Tar Epoxy Paint	LSB	Long Side Bottom	TBO	Tangent Blowoff
EDP	Extra Deep Joint	LSL	Long Side Left	TST	Testable Joint
EL or ELB	Elbow	LSR	Long Side Right	TFO	Tangent Flange Outlet
EW BAR	Easyway Bar	LST	Long Side Top	(V)	Vertical
EWHE	External White Epoxy Paint	MC	Mechanical Coupling	VICT	Victaulic
EXT	Exterior	MJH	Manhole	WHE	White Epoxy Paint INT & E
FB	Full Bevel	MJB	Mechanical Joint Bell	WP	Wallpiece
FBE	From Bell End	MJS	Mechanical Joint Spigot	WPB	Welded Price Bell
FFE	From Flange End	*MK	Mark Number	WPS	Welded Price Spigot
FLG	Flange	MOPB	Mortared Over Price Bell	90TLK	90 Degree T-Lock
FO	Flange Outlet	MOPS	Mortared Over Price Spigot	180TLK	180 Degree T-Lock
FOLL/RING or FR	Follower Ring	MTO	Mueller Threaded Outlet	270TLK	270 Degree T-Lock
		MU	Mueller	360TLK	360 Degree T-Lock
		NPTO	National Pipe Threaded Outlet (tapered iron pipe threads)		

*Mark No. is the Price Brothers code which identifies the pipe with the pipe Design Sheet. A pipe of higher Mark No. may be substituted for the Mark No. shown on the Laying Schedule, but a lower Mark No. may not be used without the Engineers and Price Brothers prior approval.

Fittings and specials are identified by Job No. (top left hand corner of Laying Schedule), piece code (left hand column of Laying Schedule) and color code as follows:

Stripes around pipe barrel:

Red = Outlet in pipe
 Yellow = Restrained joint pipe
 Blue = Bevel pipe

Color Patch on Spigot Ring:

None = 16 Ga Cylinder
 Yellow = 14 Ga Cylinder
 Red = 12 Ga Cylinder
 Orange = 10 Ga Cylinder
 Brown = 8 Ga Cylinder
 White = 3/16" Cylinder
 Green = 1/4" Cylinder
 Blue = 3/8" Cylinder

The left hand column of the Laying Schedule lists the fittings and specials code number. When calling for deliveries or to discuss pieces, please refer to them by JOB NO., UNIT NO., PIECE DESCRIPTION OR CODE NO.

For further information, see Price Brothers Installation Manual

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