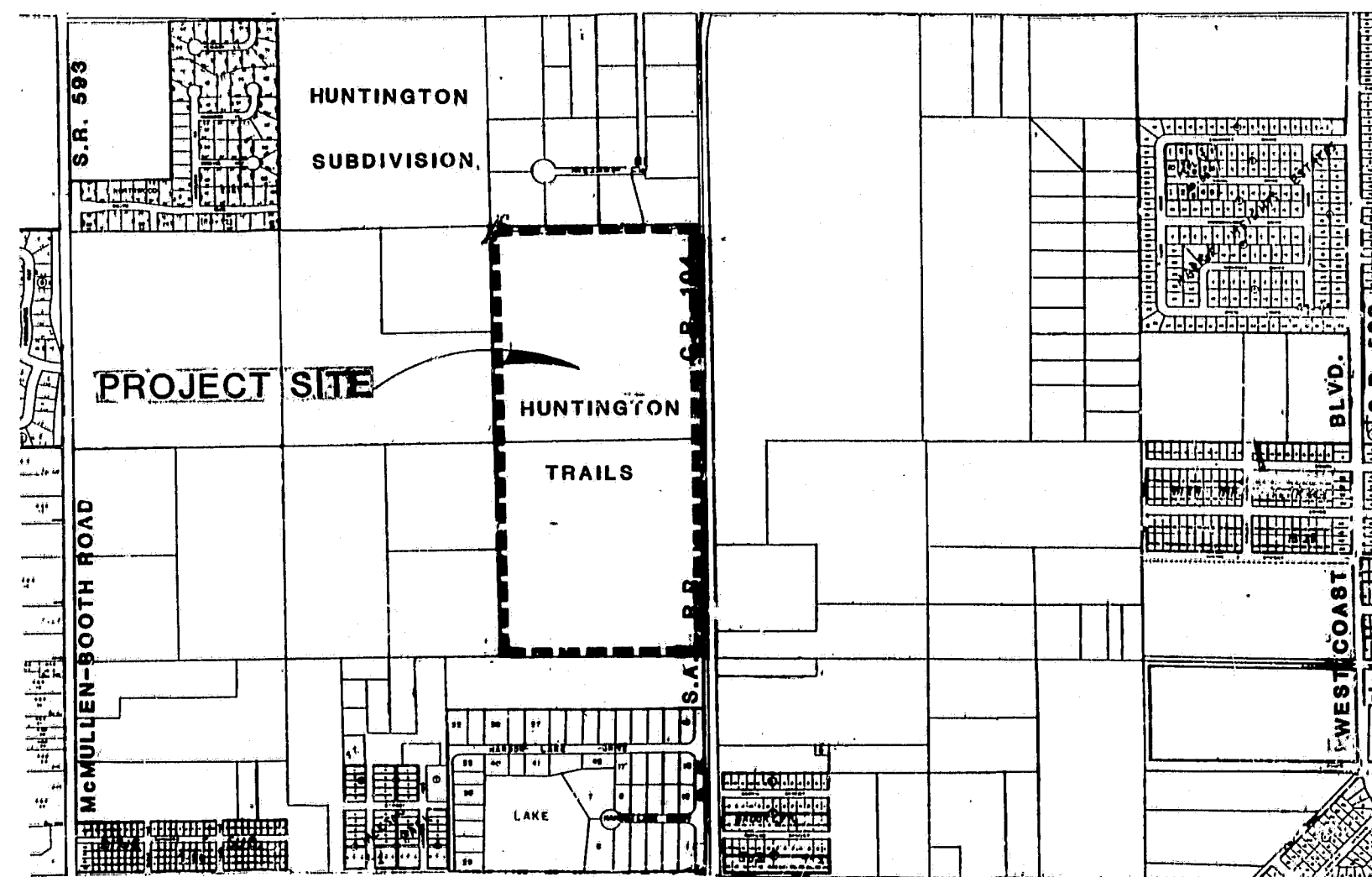


# HUNTINGTON TRAILS

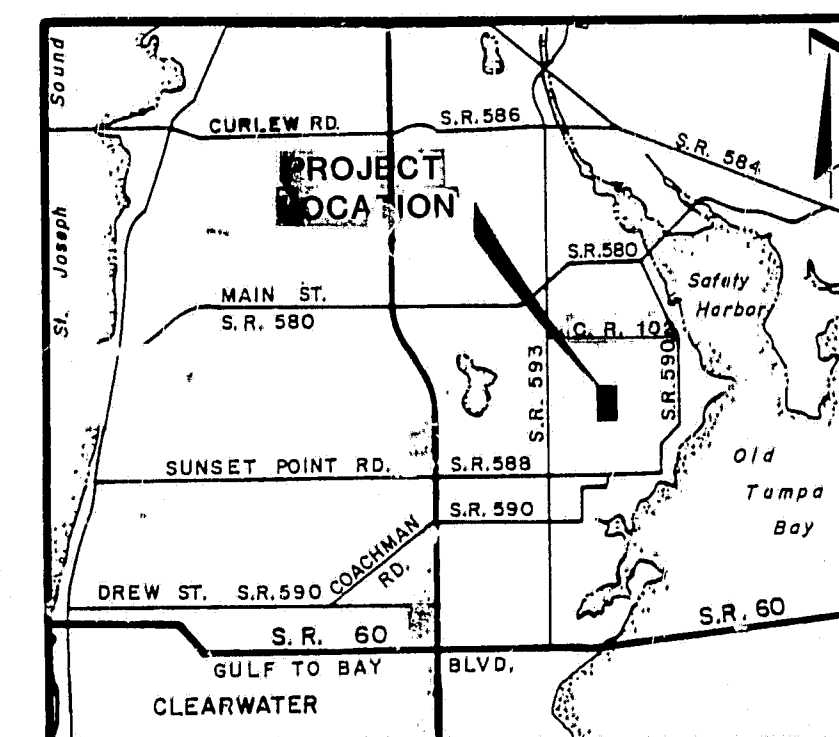
## SAFETY HARBOR, FLORIDA

### DRAWING INDEX

SHEET	TITLE
1	COVER SHEET
2	TYPICAL SECTIONS, DETAILS
3 - 4	PAVING & GRADING PLAN
5 - 6	STORM & SANITARY SEWER PLAN
7	GREEN SPRING DR. PLAN/PROFILE
8	MARSHALL ST. PLAN/PROFILE
9	9TH AVF. PLAN/PROFILE
10 - 13	PROFILES
14 - 15	WATER DISTRIBUTION PLAN
16 - 18	STORM SEWER STANDARD DETAILS
19	SANITARY SEWER STANDARD DETAILS
20	WATER SUPPLY SYSTEM STANDARD DETAILS
21	EROSION & SILTATION CONTROL DETAILS
22	WASTEWATER PUMP STATION



PROJECT LOCATION



VICINITY MAP

COMMUNITY CONCEPT GROUP

CLEARWATER, FLORIDA

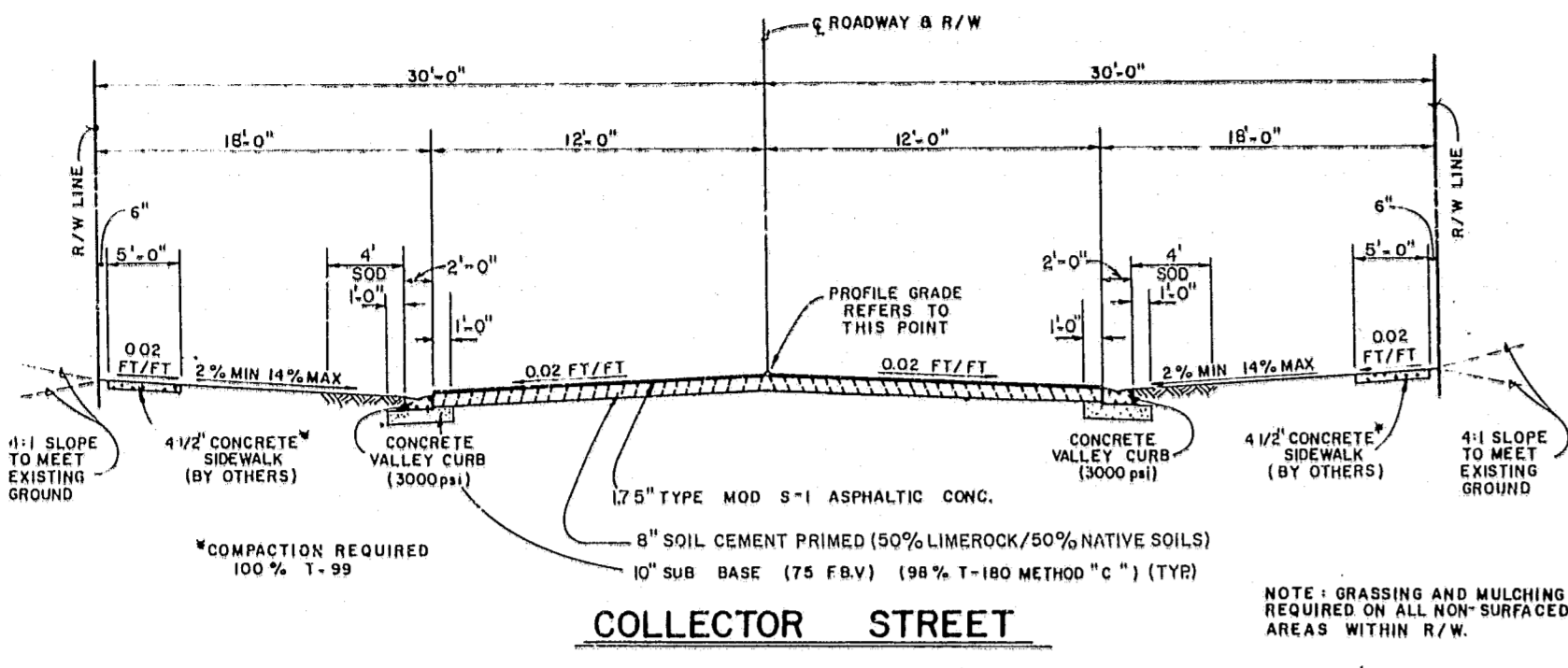
PREPARED BY

POST, BUCKLEY, SCHUH & JERNIGAN  
CONSULTING ENGINEERS, CLEARWATER, FLORIDA

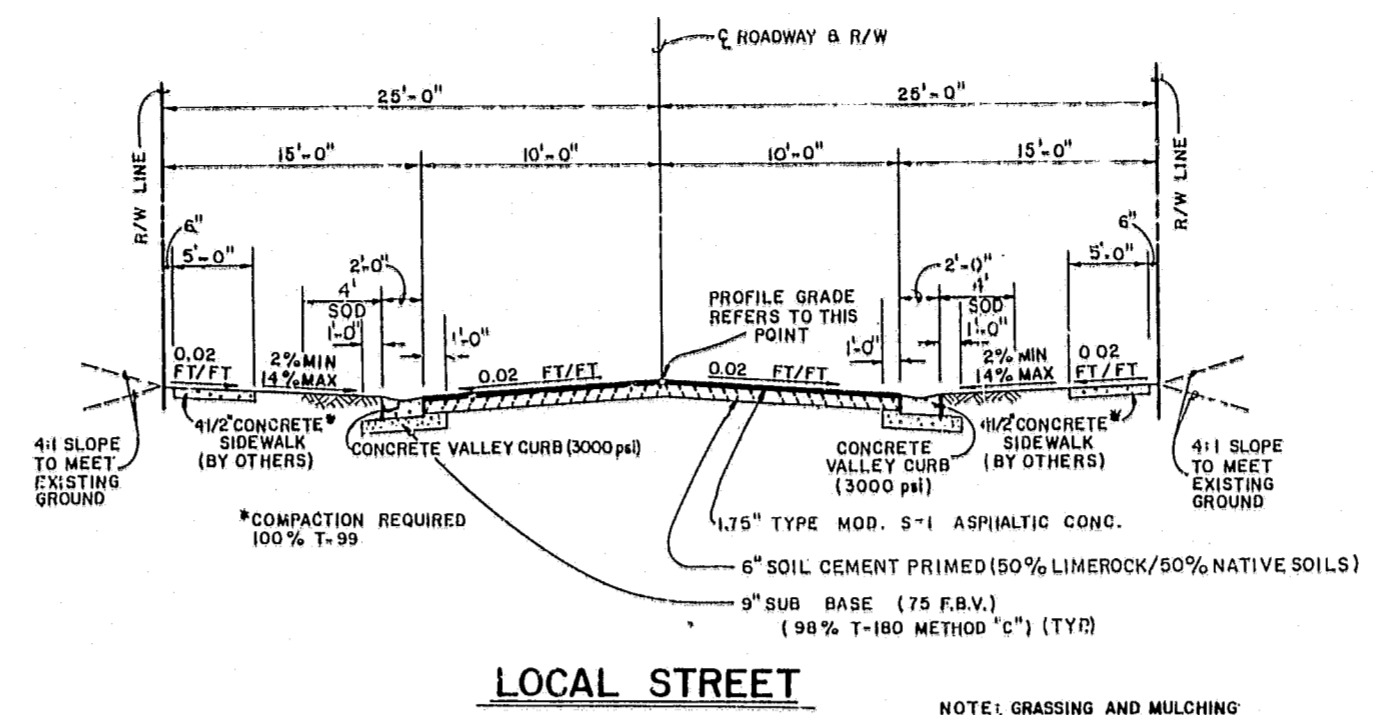
JOB NO. 590-363.10

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS.  
SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

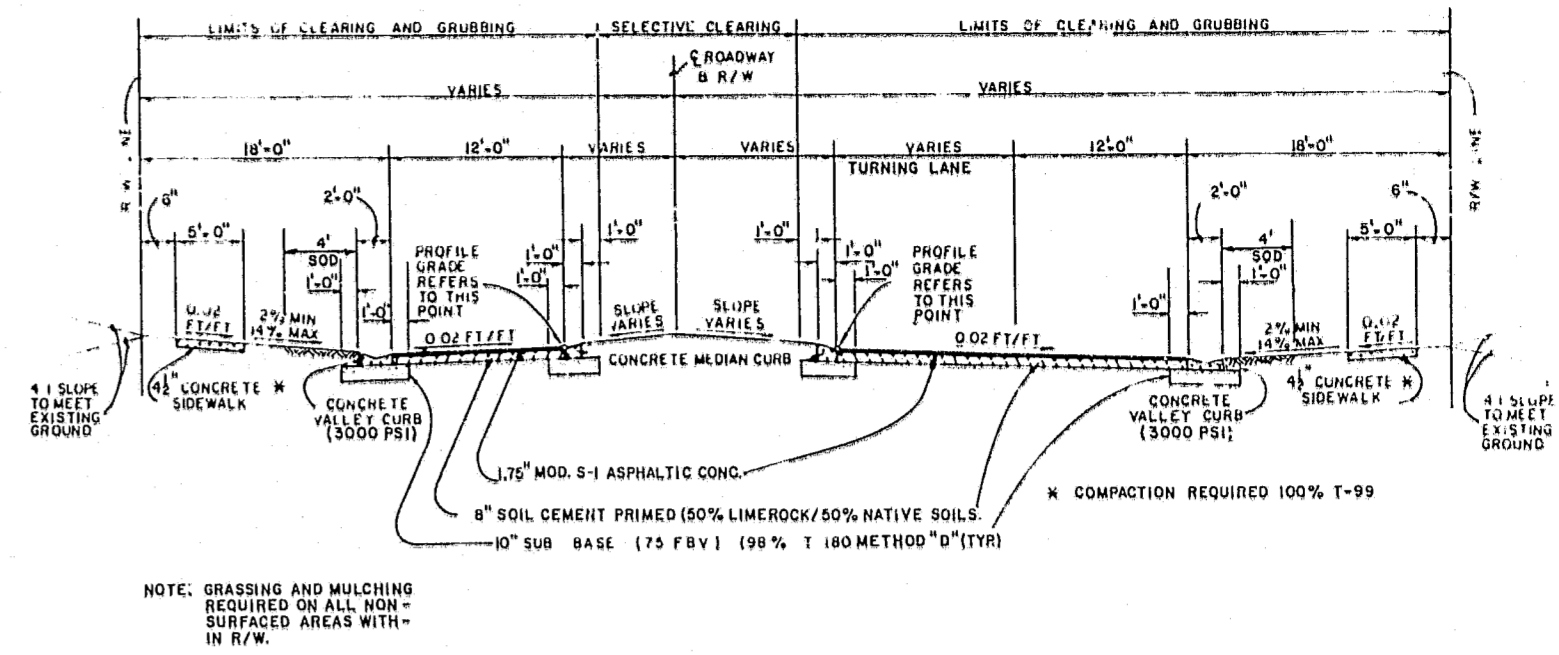
NEW



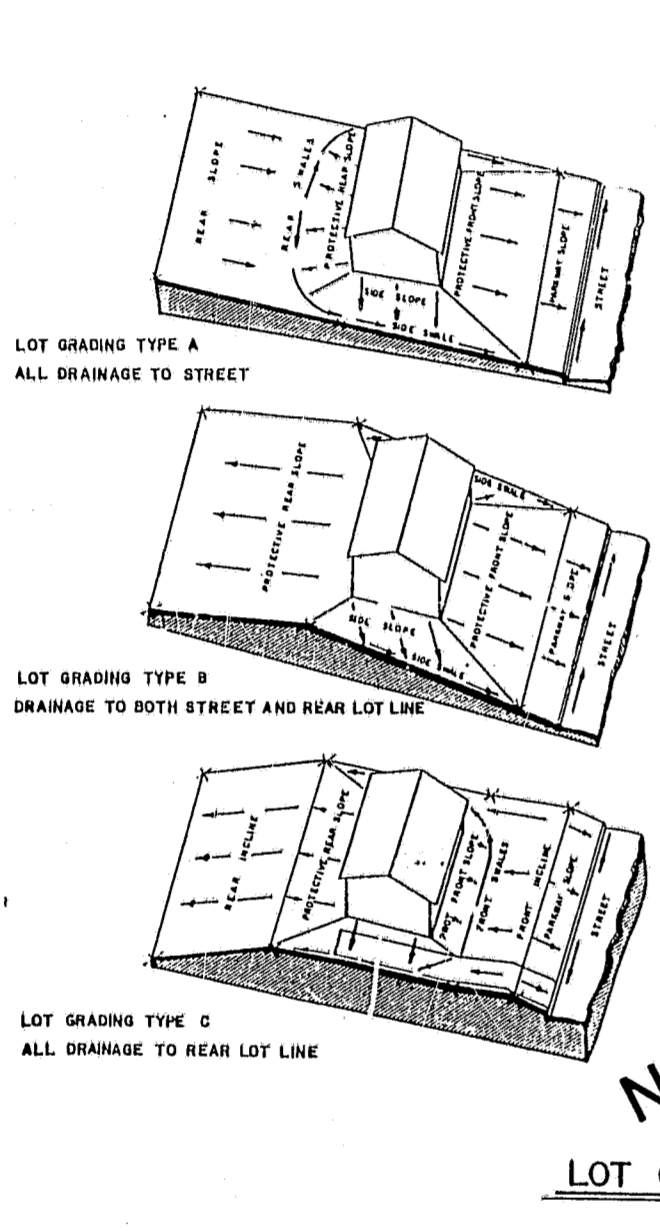
**COLLECTOR STREET**  
B-19 1-24-83



**LOCAL STREET**  
B-20 1-24-83

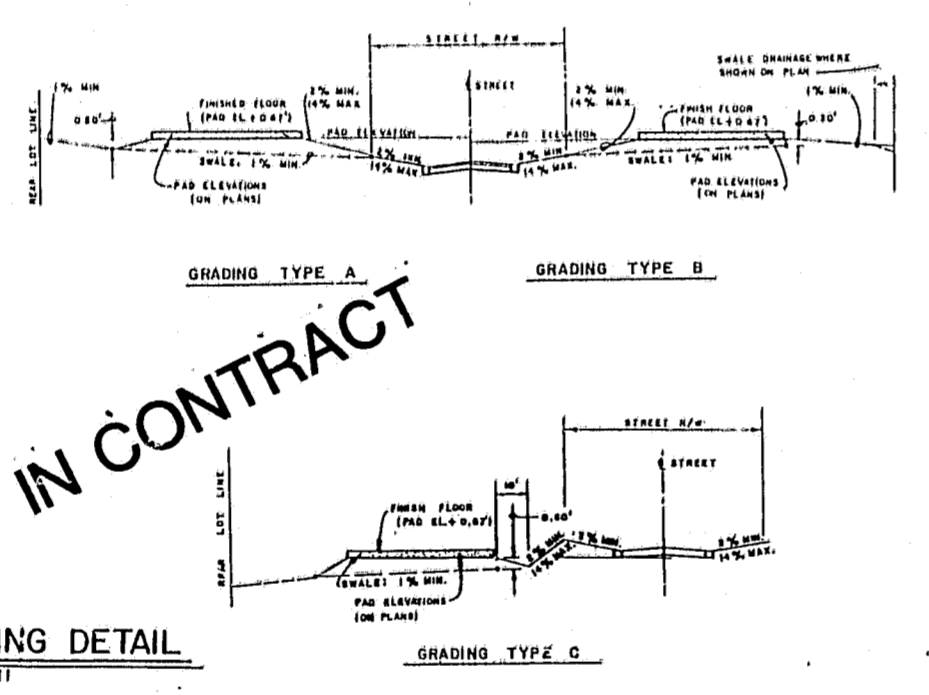


**2 LANE DIVIDED STREET WITH TURNING LANE**  
B-21 1-24-83

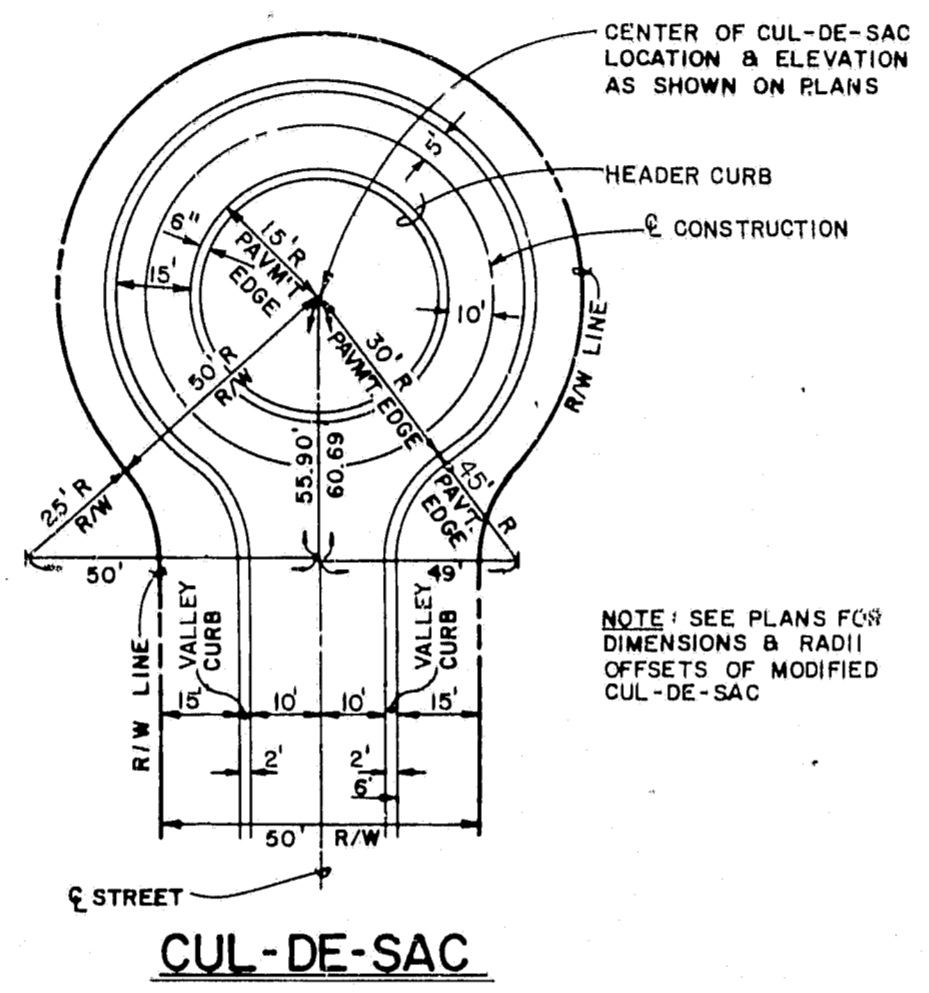


**LOT GRADING DETAIL**  
B-22 1-24-83

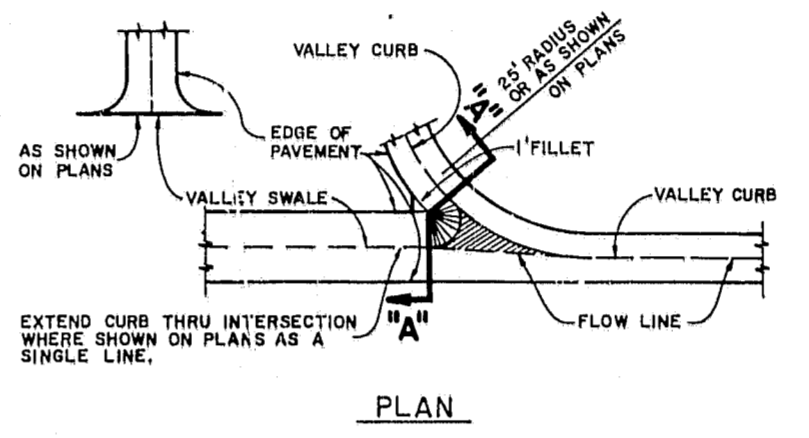
NOTE: ALTERNATE BASE COURSE ALL ROADWAYS  
SOIL CEMENT (PRIMED) MINIMUM 300 P.S.I. 7 DAYS FULL DEPTH LIMEROCK



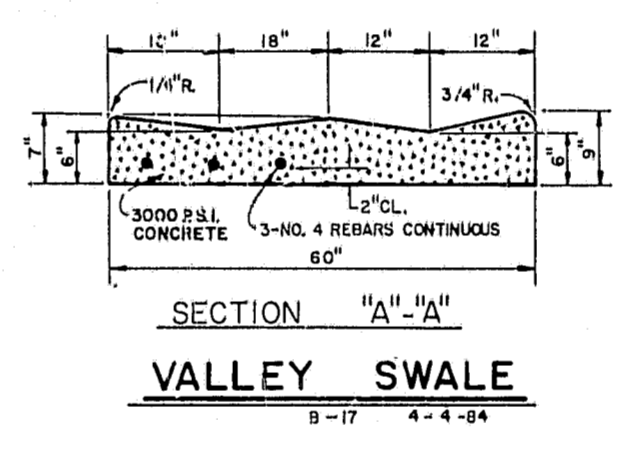
**NOT IN CONTRACT**



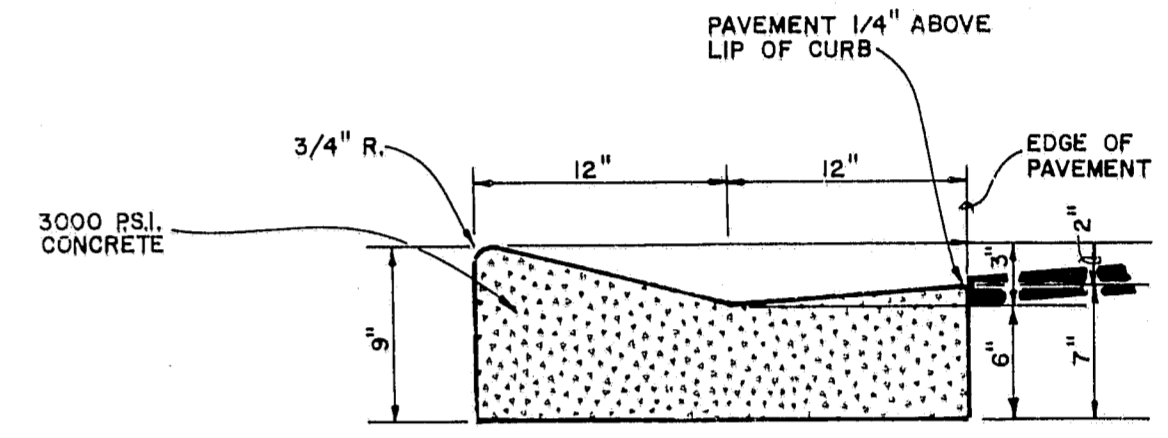
**CUL-DE-SAC**  
B-23 1-24-83



**PLAN**

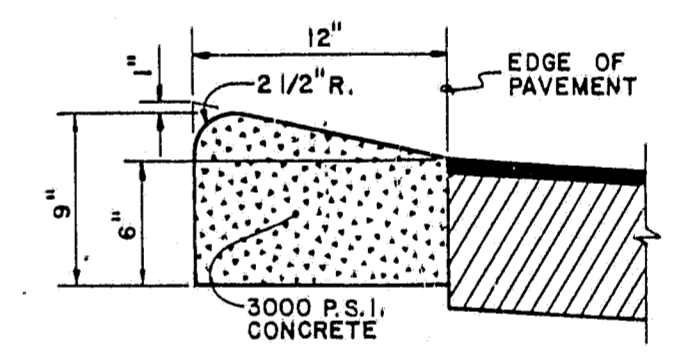


**SECTION "A-A"**  
**VALLEY SWALE**  
B-17 4-4-84



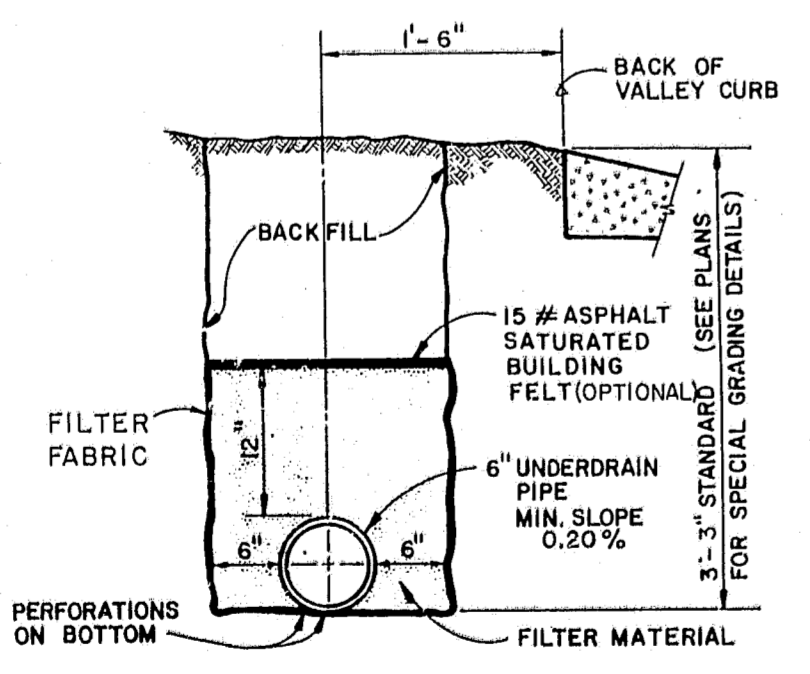
**CONCRETE VALLEY CURB**  
B-12 7-15-83

SEE SECTION 2 OF THE TECHNICAL SPECIFICATIONS FOR JOINT REQUIREMENTS



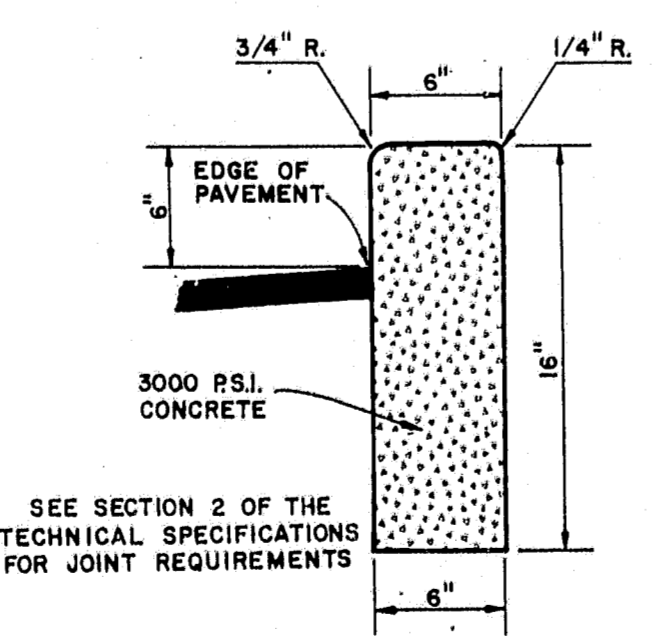
**CONCRETE MEDIAN CURB**  
B-14 1-21-83

SEE SECTION 2 OF THE TECHNICAL SPECIFICATIONS FOR JOINT REQUIREMENTS

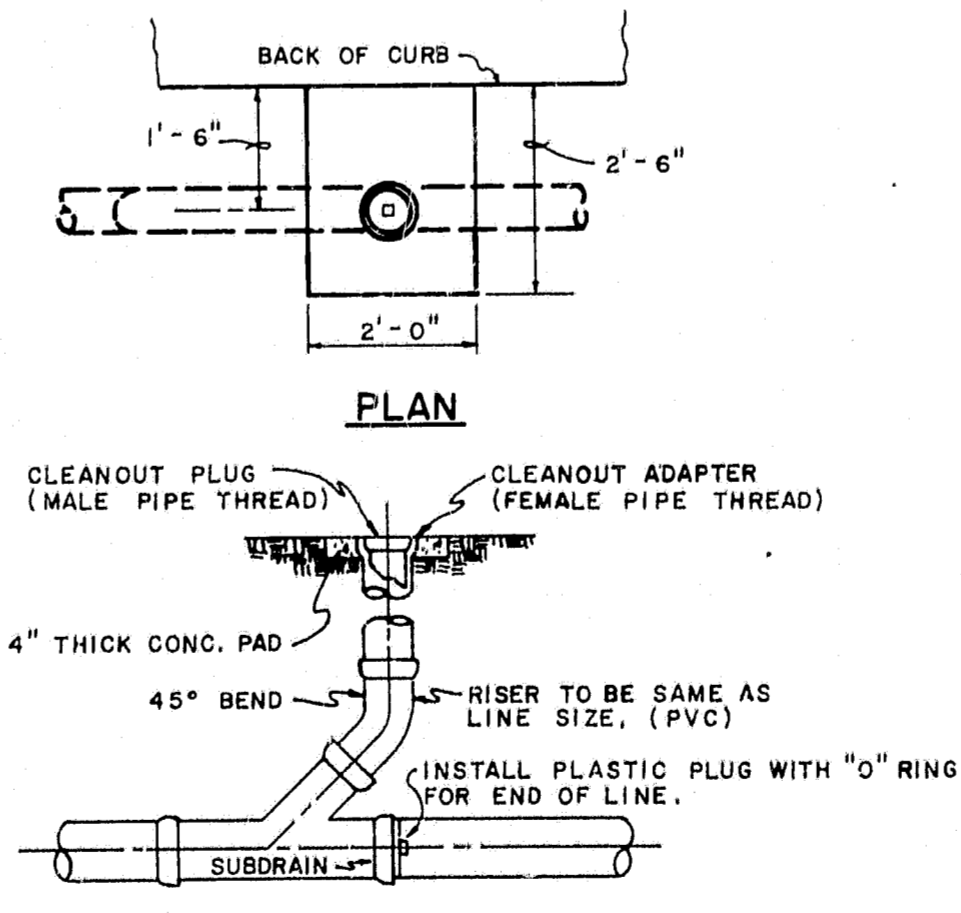


NOTE: FILTER AGGREGATE SHALL CONSIST OF GRADE 69 COARSE AGGREGATE AS PER D.O.T. SPECIFICATIONS.

**UNDERDRAIN TYPICAL SECTION**  
B-20 1-24-83

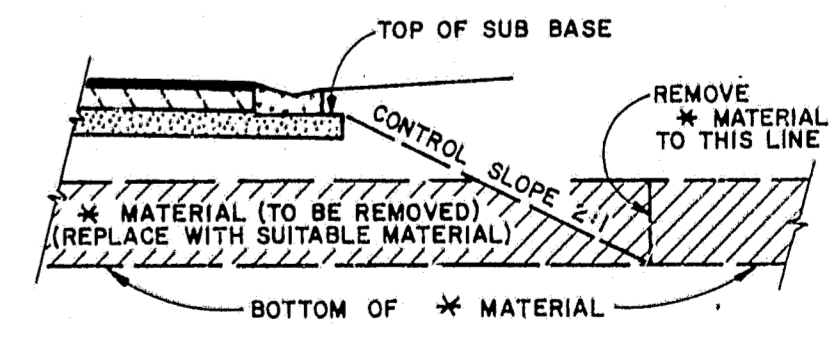


**CONCRETE HEADER CURB**  
B-15 1-21-83



**PROFILE**

**UNDERDRAIN CLEANOUT**  
B-21 1-3-84



**UNSUITABLE MATERIAL REMOVAL LIMITS**  
B-18 2-16-84

DESIGN: \_\_\_\_\_  
DRAWN: STD.  
CHECKED: \_\_\_\_\_  
D.C.:

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER, FLORIDA 33515

TYPICAL SECTIONS AND DETAILS

5				JOB NO.	590-363.10
4				F.B. NO.	
3				DATE	SEPT. 14, 1984
2					
1					
NO.	DATE	REVISION	APP'D. BY		

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

**CONSTRUCTION NOTES**

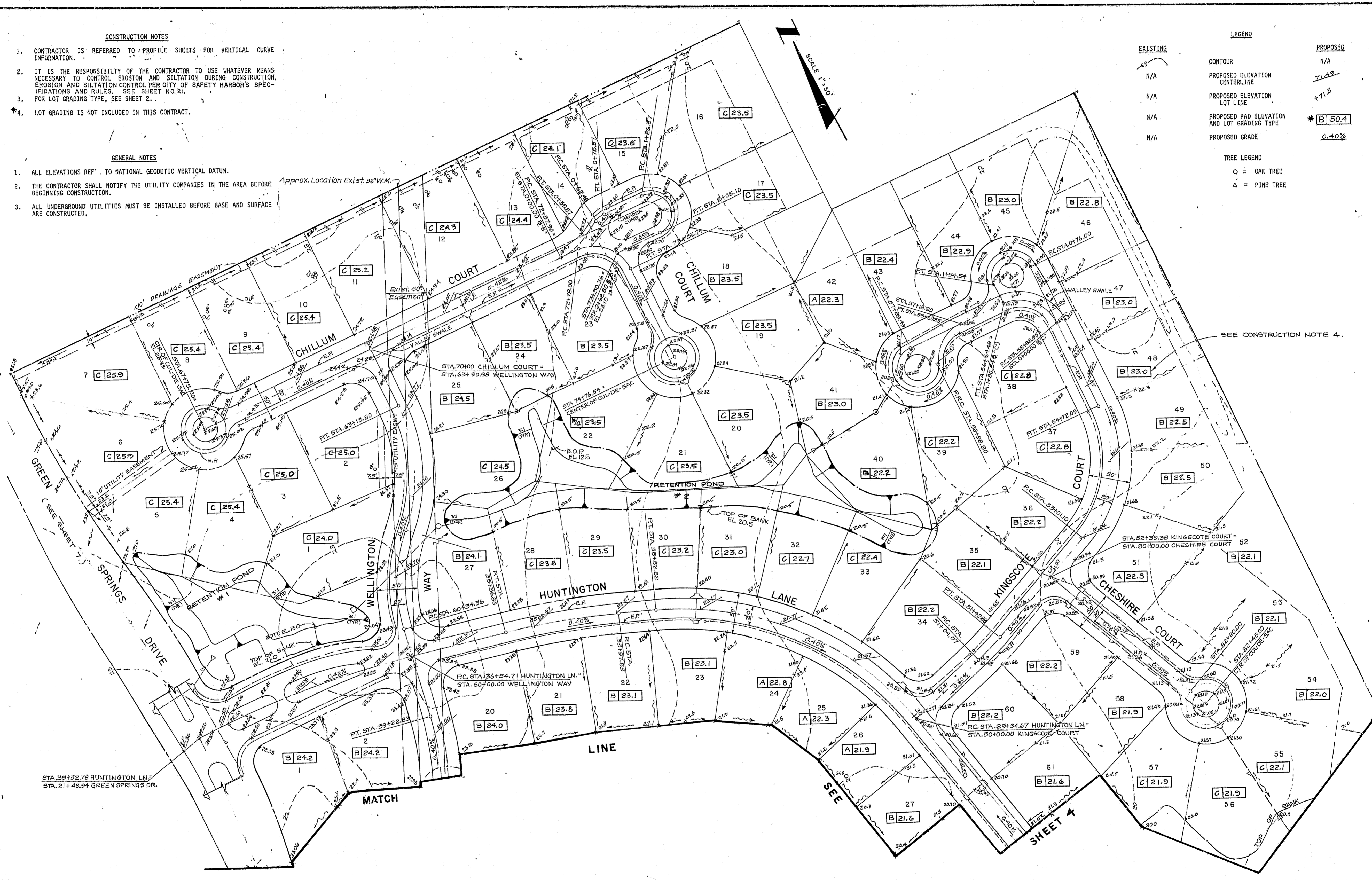
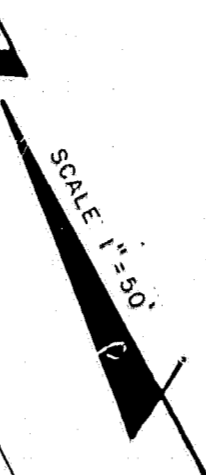
1. CONTRACTOR IS REFERRED TO PROFILE SHEETS FOR VERTICAL CURVE INFORMATION.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION DURING CONSTRUCTION. EROSION AND SILTATION CONTROL PER CITY OF SAFETY HARBOR'S SPECIFICATIONS AND RULES. SEE SHEET NO. 21.
3. FOR LOT GRADING TYPE, SEE SHEET 2.
- \*4. LOT GRADING IS NOT INCLUDED IN THIS CONTRACT.

**GENERAL NOTES**

1. ALL ELEVATIONS REF. TO NATIONAL GEODETIC VERTICAL DATUM.
2. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION.
3. ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE BASE AND SURFACE ARE CONSTRUCTED.

**LEGEND**

EXISTING	PROPOSED
CONTOUR	N/A
N/A	PROPOSED ELEVATION CENTERLINE 71.49
N/A	PROPOSED ELEVATION LOT LINE 71.5
N/A	PROPOSED PAD ELEVATION AND LOT GRADING TYPE *B 50.4
N/A	PROPOSED GRADE 0.40%
<b>TREE LEGEND</b>	
○	= OAK TREE
△	= PINE TREE



SEE CONSTRUCTION NOTE 4.

DESIGN SSH  
 DRAWN G. GOFORTH  
 CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_

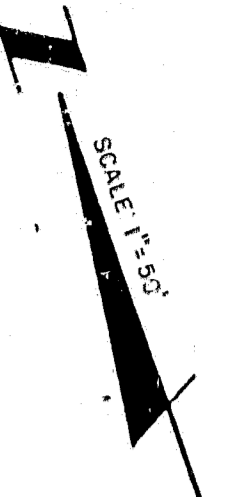
**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLA.

PAVING AND GRADING PLAN

3	6-13-85	REV. LOT GRADING	D.F.	JOB NO	599 163.0
4	2-12-85	REVISED GRADING CHILLUM COURT		DATE	SEPT. 14, 1984
3	1-22-85	CHG. STREET NAMES		APP'D BY	
2	1-22-85	REV. LOT #1; RET. POND #1; DER. LINE		SHEET	3 OF 22
1	10/22/84	REVISED LOT GRADING			

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR



NOTE: SEE SHEET 3 FOR NOTES AND LEGEND.

DESIGN: SSH, RLG  
 DRAWN: G. GORFORTH  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLCA

PAVING AND GRADING PLAN

5					
4	11-13-85	REV LOT GRADING	D.F.	JOB NO: 990.363.H	
3	3-7-85	REV CHATHAM, WYNDHAM WAY		DATE: SEPT. 14, 1984	
2	1-22-85	REV LOT 33, 20; STREET NAMES			
1	10/24/84	REVISED LOT GRADING			
NO	DATE	REVISION	APP'D BY	SHEET 4 OF 22	

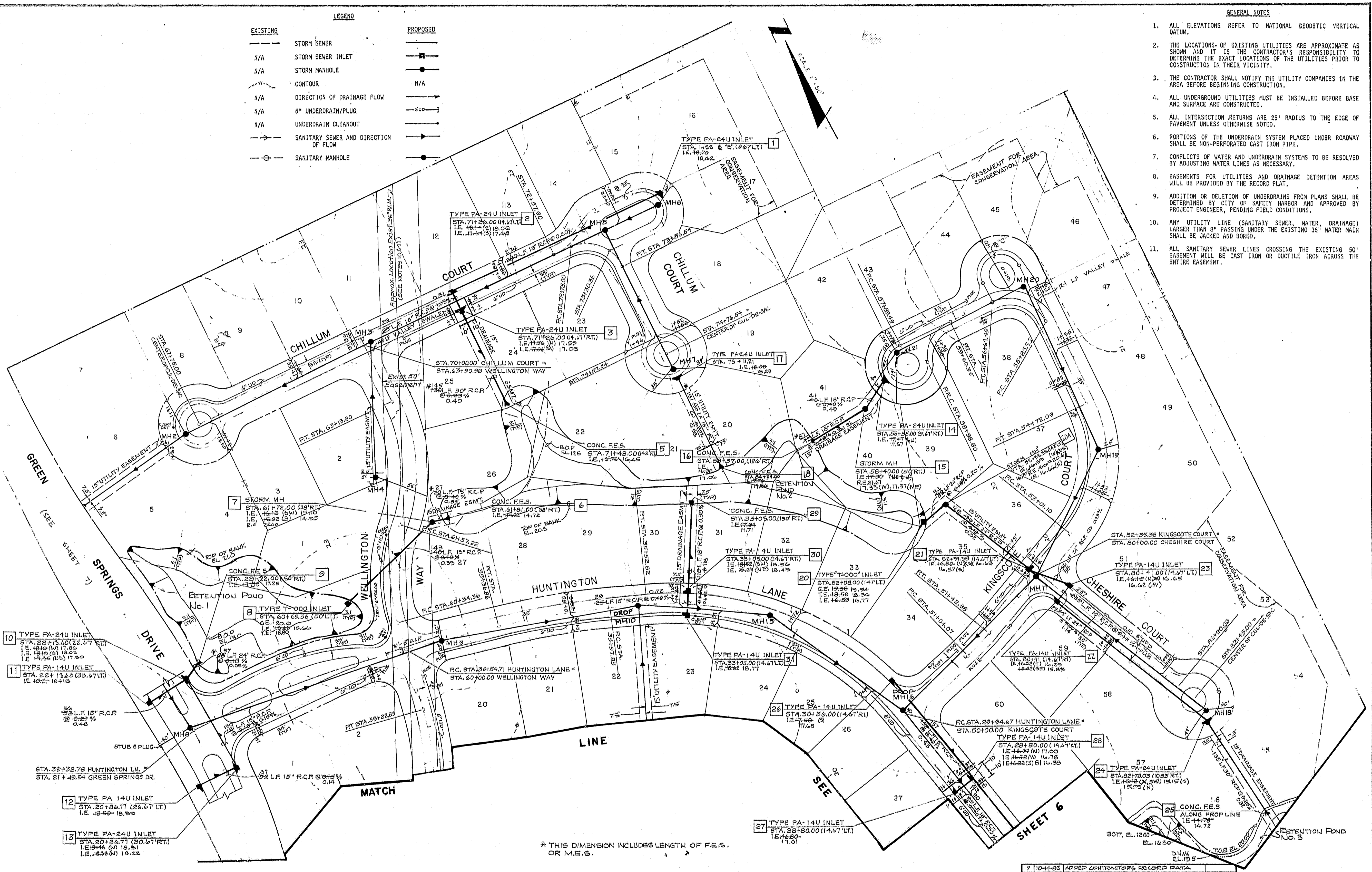
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM.
2. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
3. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION.
4. ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE BASE AND SURFACE ARE CONSTRUCTED.
5. ALL INTERSECTION RETURNS ARE 25' RADIUS TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. PORTIONS OF THE UNDERDRAIN SYSTEM PLACED UNDER ROADWAY SHALL BE NON-PERFORATED CAST IRON PIPE.
7. CONFLICTS OF WATER AND UNDERDRAIN SYSTEMS TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
8. EASEMENTS FOR UTILITIES AND DRAINAGE DETENTION AREAS WILL BE PROVIDED BY THE RECORD PLAT.
9. ADDITION OR DELETION OF UNDERDRAINS FROM PLANS SHALL BE DETERMINED BY CITY OF SAFETY HARBOR AND APPROVED BY PROJECT ENGINEER, PENDING FIELD CONDITIONS.
10. ANY UTILITY LINE (SANITARY SEWER, WATER, DRAINAGE) LARGER THAN 8" PASSING UNDER THE EXISTING 36" WATER MAIN SHALL BE JACKED AND BORED.
11. ALL SANITARY SEWER LINES CROSSING THE EXISTING 50' EASEMENT WILL BE CAST IRON OR DUCTILE IRON ACROSS THE ENTIRE EASEMENT.

LEGEND

EXISTING	PROPOSED
---	---
N/A	---
N/A	---
- - -	N/A
N/A	→
N/A	→
N/A	→
→	→
○	○



\* THIS DIMENSION INCLUDES LENGTH OF F.E.S. OR M.E.S.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

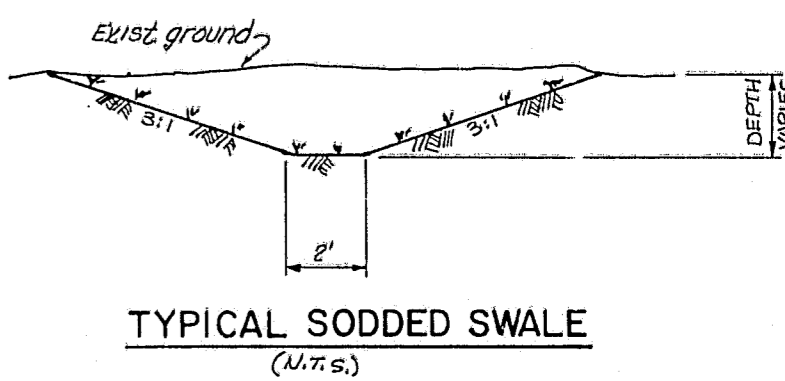
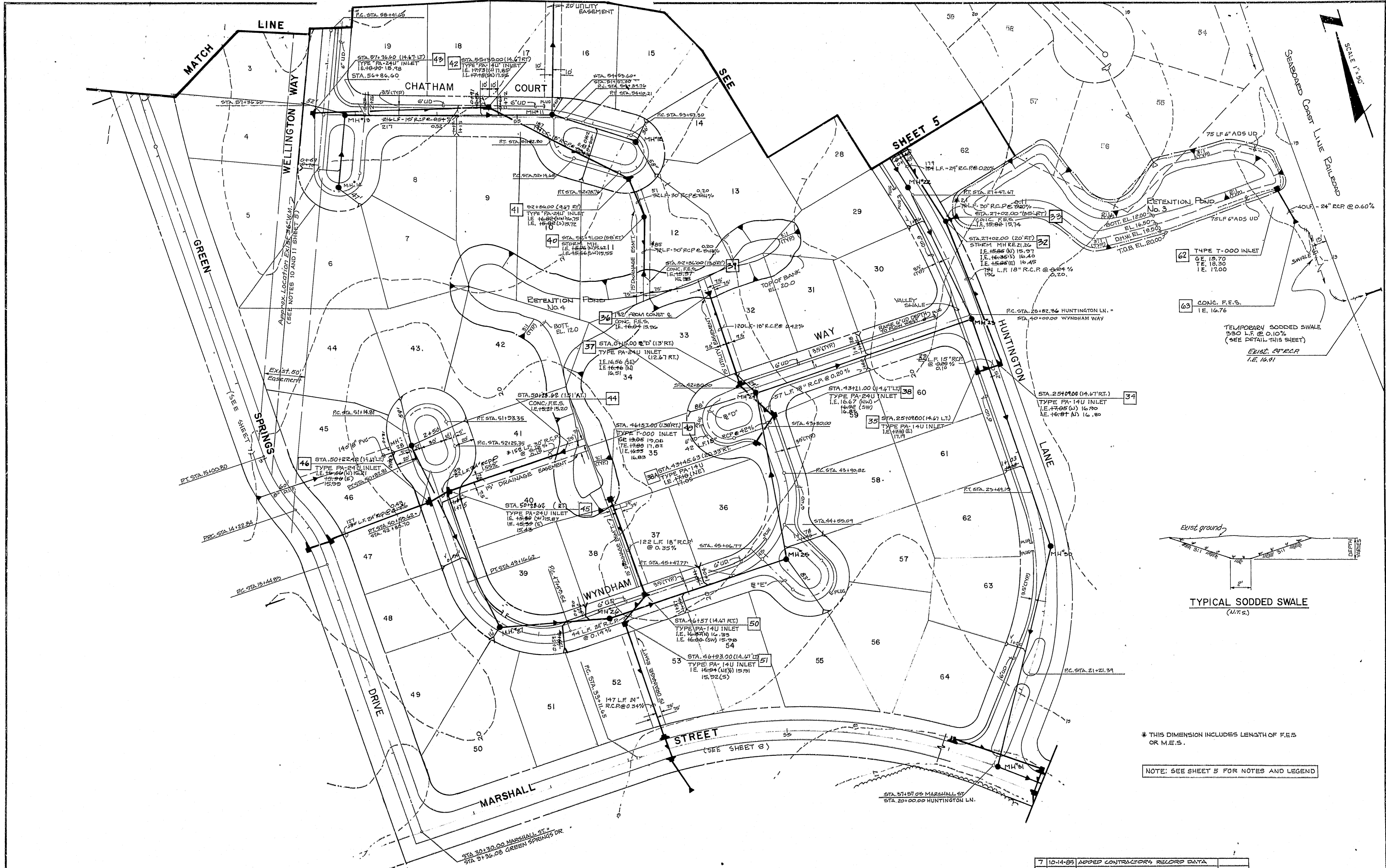
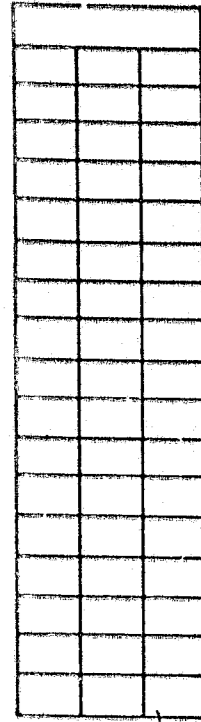
**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER, FLA.,

STORM DRAINAGE AND  
SANITARY SEWER PLAN

7	10-14-85	ADDED CONTRACTOR'S RECORD DATA
6	5-26-85	ADDED RECORD DATA
3	1-30-85	ADJ. INVERTS STRUCT. 6, 7, 8, 22, 23, 24, 25
4	1-22-85	CHG. STREET NAMES
3	1-22-85	REV. LOT 14; RET. POND 1 & 2; D.E.R. LINE
2	1-17-85	REVISED GE. & I.E. STR. #20
1	12-1-84	EXTEND 8" SAN. SEW. TO RW FROM MH8

DATE: SEPT. 14, 1984

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



\* THIS DIMENSION INCLUDES LENGTH OF F.E.S OR M.E.S.

NOTE: SEE SHEET 5 FOR NOTES AND LEGEND

DESIGN: *[Signature]*  
 DRAWN: *[Signature]*  
 C.H. RED  
 G.C.

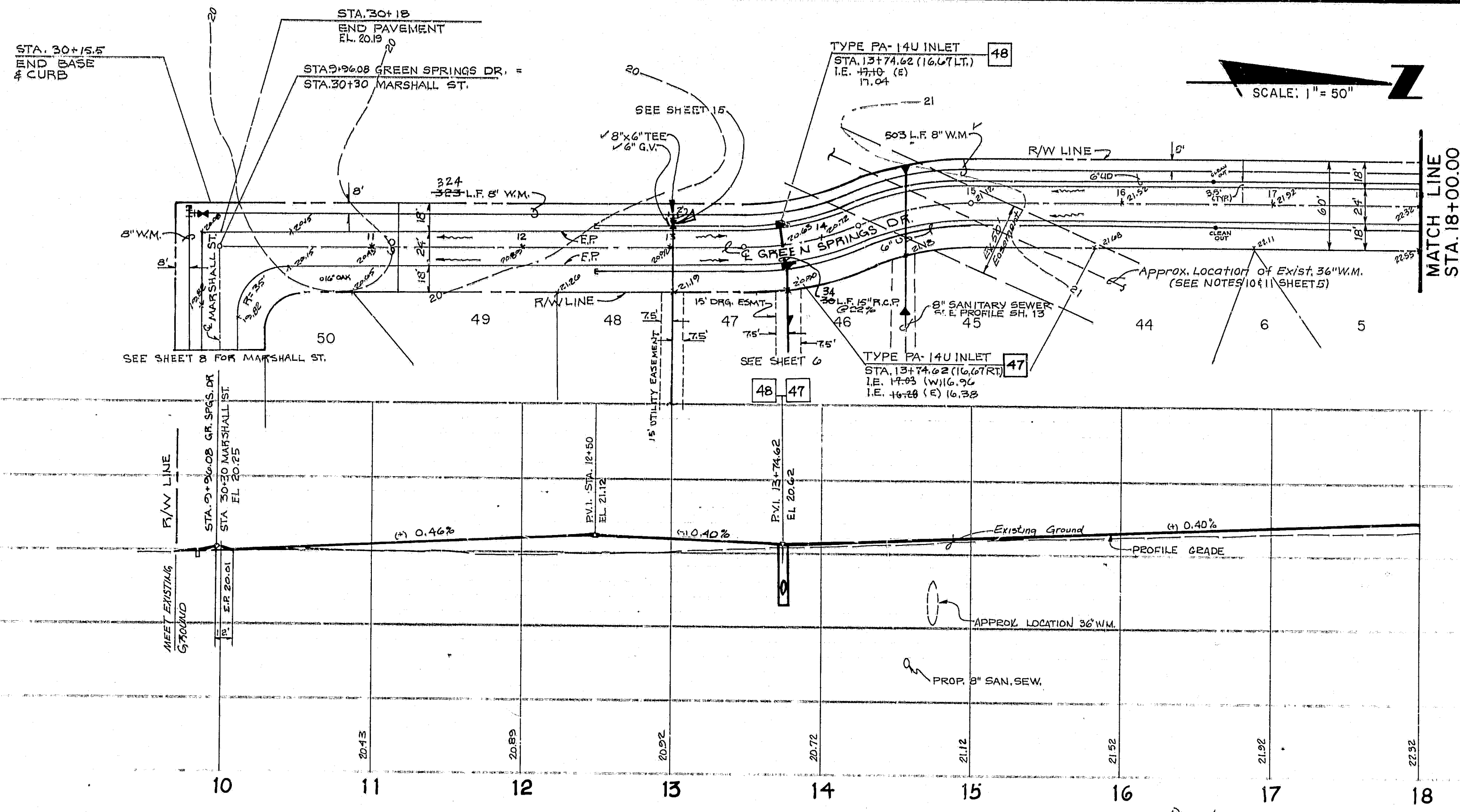
**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLA.

**STORM DRAINAGE AND  
 SANITARY SEWER PLAN**

7	10-14-85	ADDED CONTRACTOR'S RECORD DATA	
6	5-28-85	ADDED RECORD DATA	
5	3-4-85	REV UTILITIES AND ROADWAY WYNDHAM WAY	JOB NO. 590-363.10
4	1-30-85	EXT. SAN. SEW. TO GREEN SPRINGS DR. R/W	F.B. NO.
3	1-30-85	REV. SAN. SEW. FR. MH. 27 TO 28	DATE
2	1-22-85	REV. LOT 33 (29), STREET NAMES: DER. LINE	SEPT. 14, 1984
1	1-17-85	REV. GR. ELEV., STR. # 40 & 62	SCALE 1" = 5'
NO	DATE	REVISION	APP'D BY

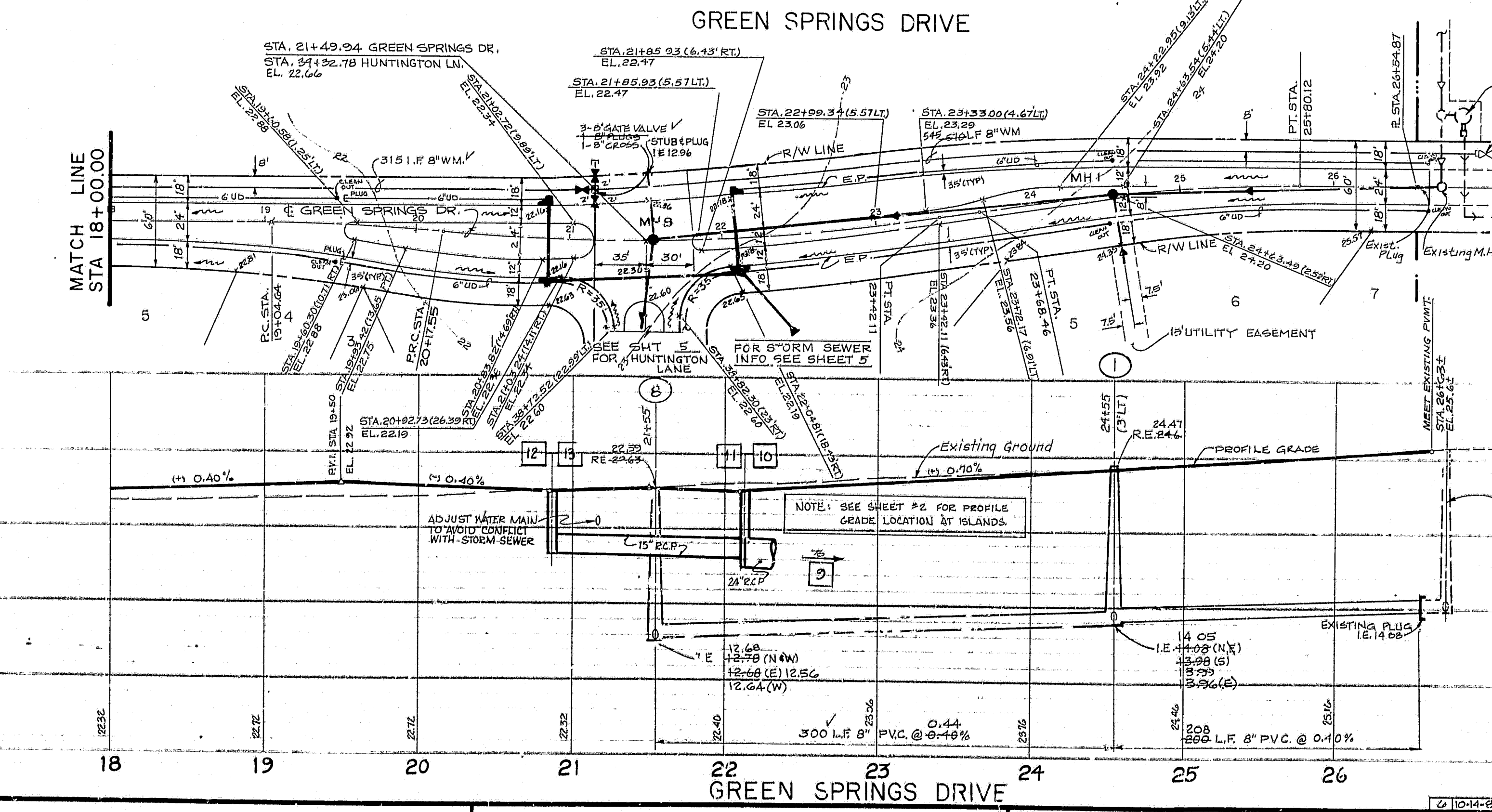
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



NOTE: 1. SEE SHEET 14 FOR GENERAL NOTES REGARDING WATER MAIN.  
2. SEE SHEET

TREE LEGEND  
 ○ OAK  
 △ PINE  
 □ CYPRESS  
 ○ PALM

SCALE: 1" = 50'



SCALE: 1" = 50'

SCALE  
 1" = 50' HORIZONTAL  
 1" = 5' VERTICAL

DESIGN: *[Signature]*  
 DRAWN: *[Signature]*  
 CHECKED: \_\_\_\_\_  
 O.C. \_\_\_\_\_

**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

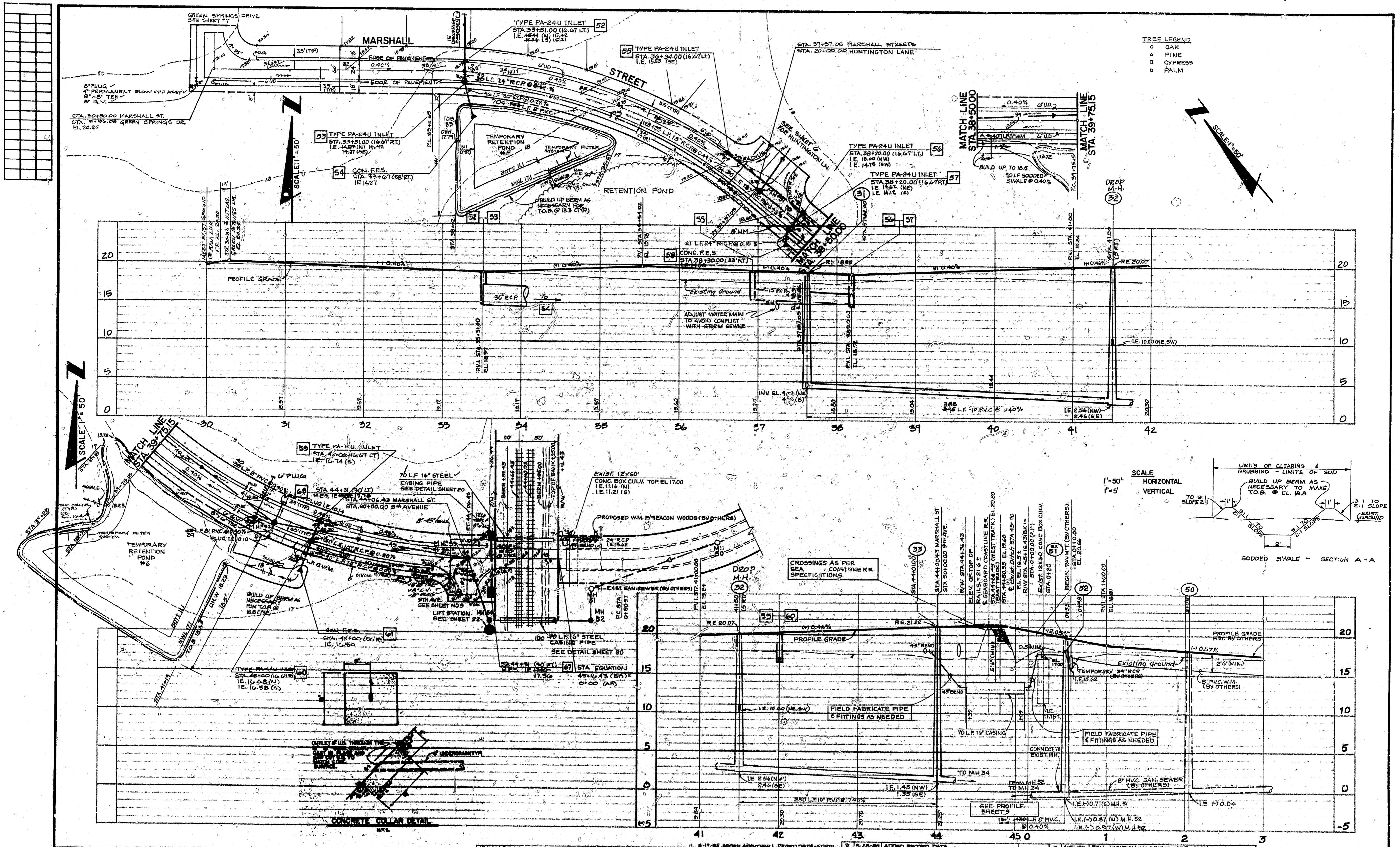
**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLORIDA 33515

**GREEN SPRINGS DRIVE**  
 PLAN AND PROFILE

NO.	DATE	REVISION	APP'D BY
1	11-7-84	REV WATER PER CITY OF SAFETY HARBOR	
2	12-4-84	EXTEND 8" SAN. SEW TO R/W FROM MHB	
3	1-20-85	EXTEND 8" SAN. SEW TO GR SPRINGS DR. (R.45/4)	
4	3-4-85	REV. INFER. ALIGN. MARSHALL ST. + GR. SPRS	
5	5-26-85	ADDED RECORD DATA	
6	10-14-89	ADDED CONTRACTOR'S RECORD DATA	

JOB NO	590-363.1
FB NO	
DATE	SEPT 14, 1984
SCALE	AS NOTED
SHEET	7 OF 22

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



DESIGN: ESH  
 DRAWN: ESH  
 CHECKED: \_\_\_\_\_  
 O.C.: \_\_\_\_\_

NOT VALID FOR CONSTRUCTION  
 UNLESS SIGNED IN THIS BLOCK

**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLA. 33515

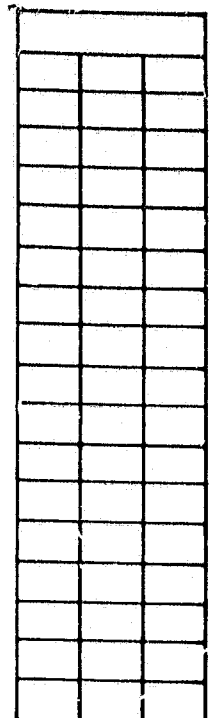
**MARSHALL STREET**  
 PLAN AND PROFILE

7	4-18-84	REV. LOCATION OF STORM STA. 35+00
6	4-8-84	REV. PUMP STA. LOCATION
5	3-20-84	ADDED FILTER SWS. TO POND S 1/2
4	3-4-84	REV. MARSHALL & GREEN SPRINGS INTER.
3	1-30-84	STREET NAME
2	1-3-84	REVID 5/4, ADDED 4" BLOWOFF ASSY.
1	7-84	REV. WATER PER. CITY OF SAFETY HARBOR

JOB NO.	590-36310
DATE	SEPT. 14, 1984
SCALE	AS SHOWN
SHT	8 OF 22

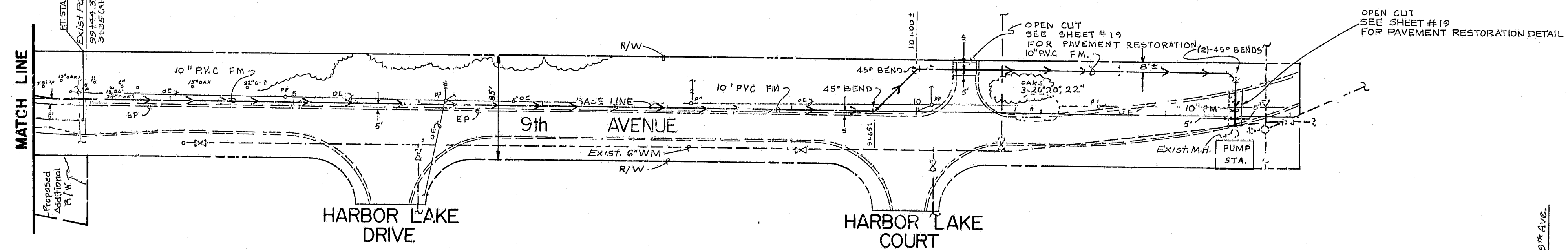
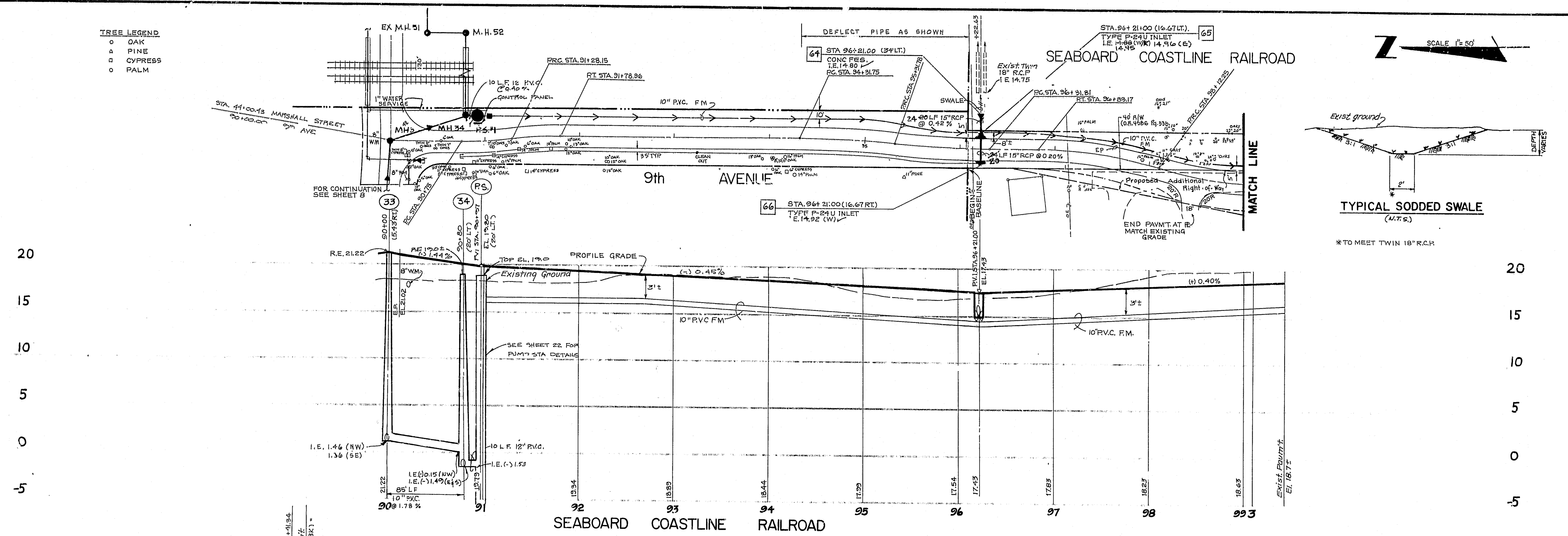
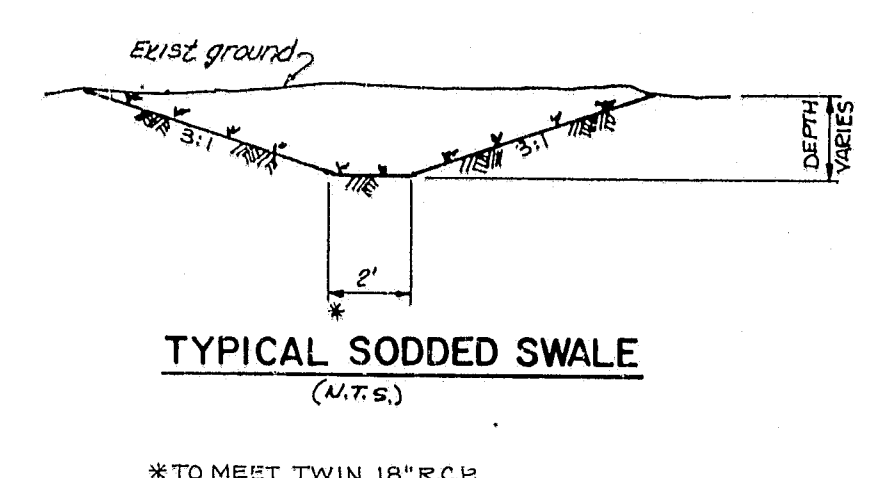
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS.  
 SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



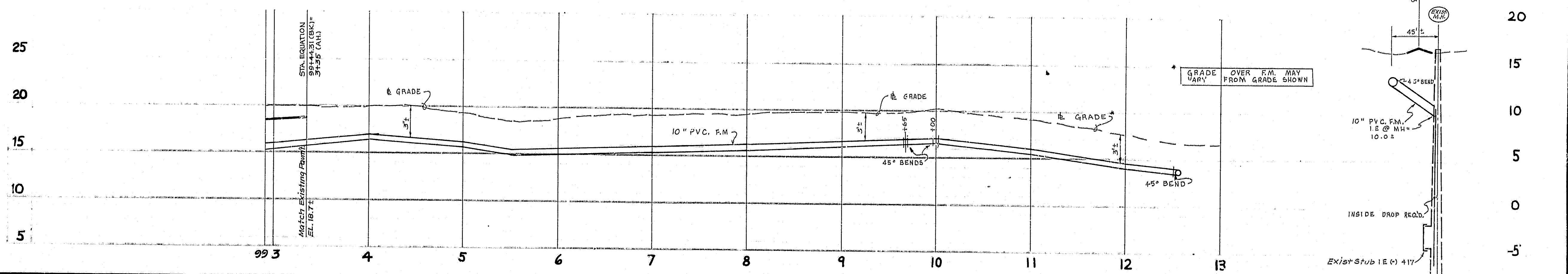


**TREE LEGEND**  
 O OAK  
 Δ PINE  
 □ CYPRESS  
 ○ PALM

SCALE 1"=50'



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



DESIGN S.S.H.  
 DRAWN K.A.H.  
 CHECKED  
 O.C.

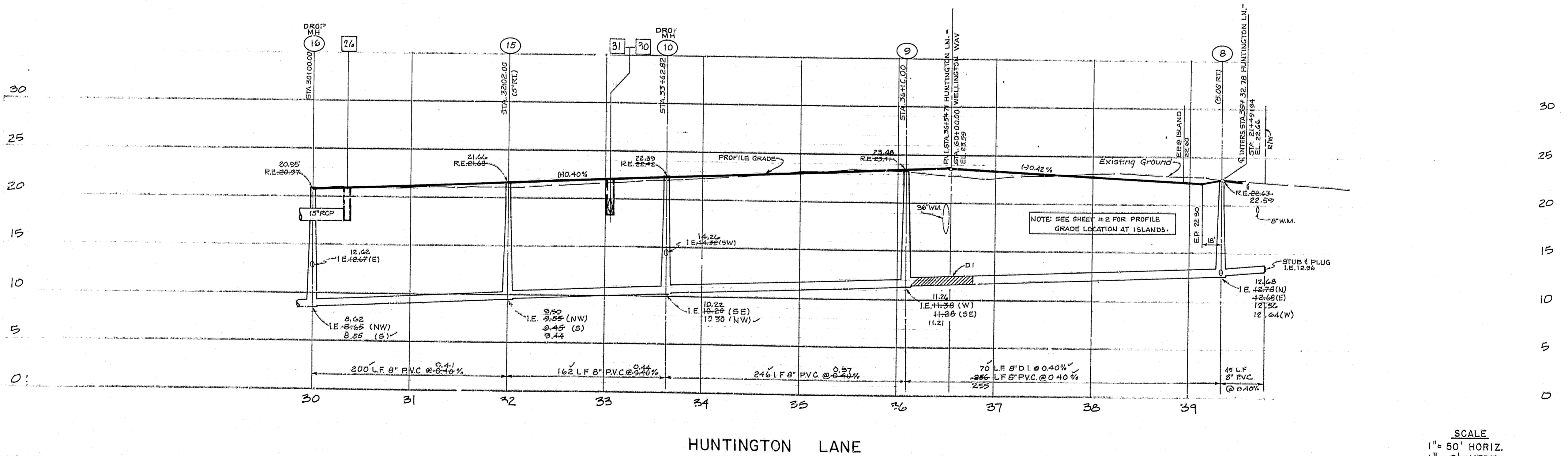
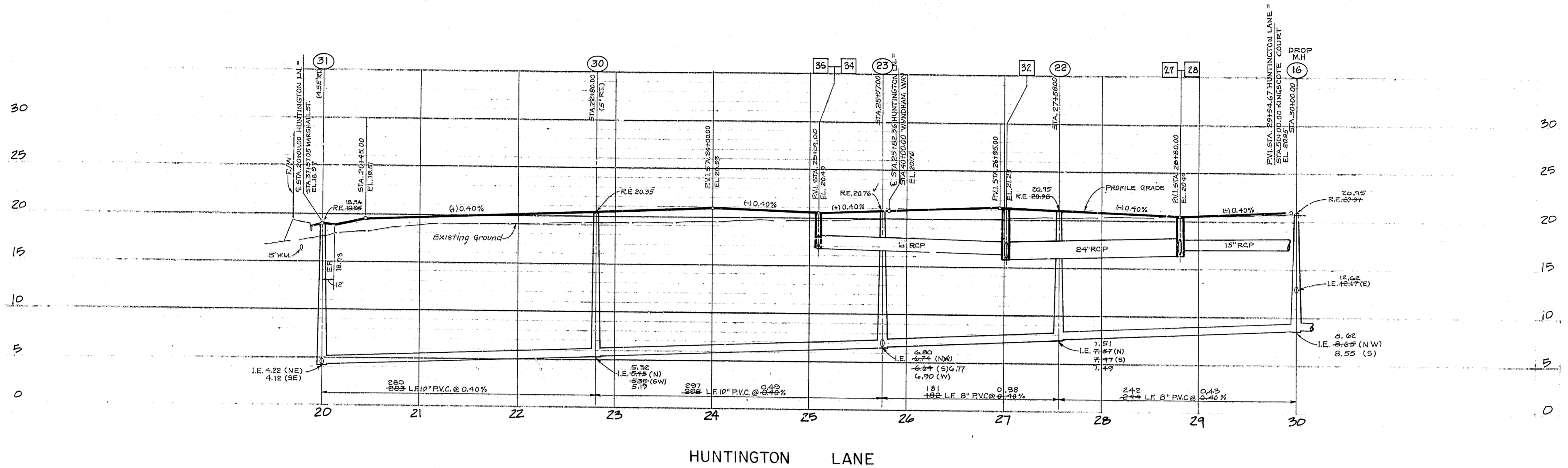
**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLA. 33515

**9th AVENUE**  
 PLAN AND PROFILE

5	ADD RECORD DATA FOR STATION	JOB NO. 890-363.10
4	REV. 09 AVE. PLAN VIEW AND PROFILE.	FB NO.
3	REV. 09 AVE. PLAN VIEW AND PROFILE.	DATE SEPT. 14, 1984
2	REV. 09 AVE. PLAN VIEW AND PROFILE.	APP'D BY
1	REV. PUMP STA. LOCATION	SCALE AS NOTED
NO.	DATE	REVISION

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



DESIGN SSH  
 DRAWN KSM  
 CHECKED \_\_\_\_\_  
 D.C. \_\_\_\_\_

**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER, FLORIDA 33515

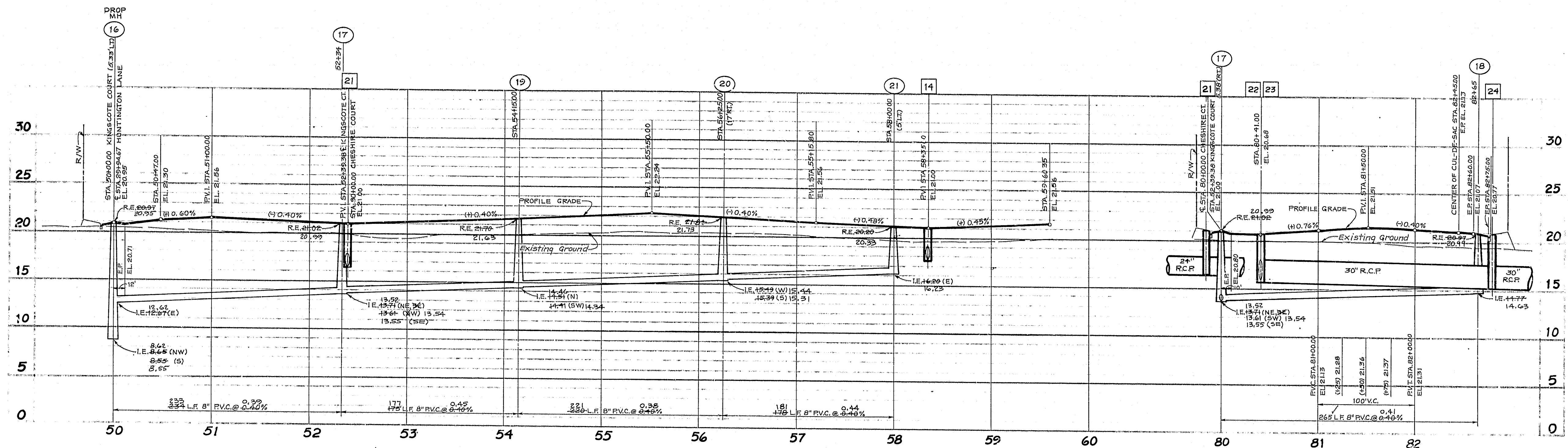
PROFILES

5					
4					
3					
2	5-28-88	ADDED RECORD DATA			
1	12-4-84	EXTEND 8" SAN. SEW. TO R/W FROM MHB			
NO.	DATE	REVISION	APP'D BY	SCALE AS NOTED	SHT 10 OF 22

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

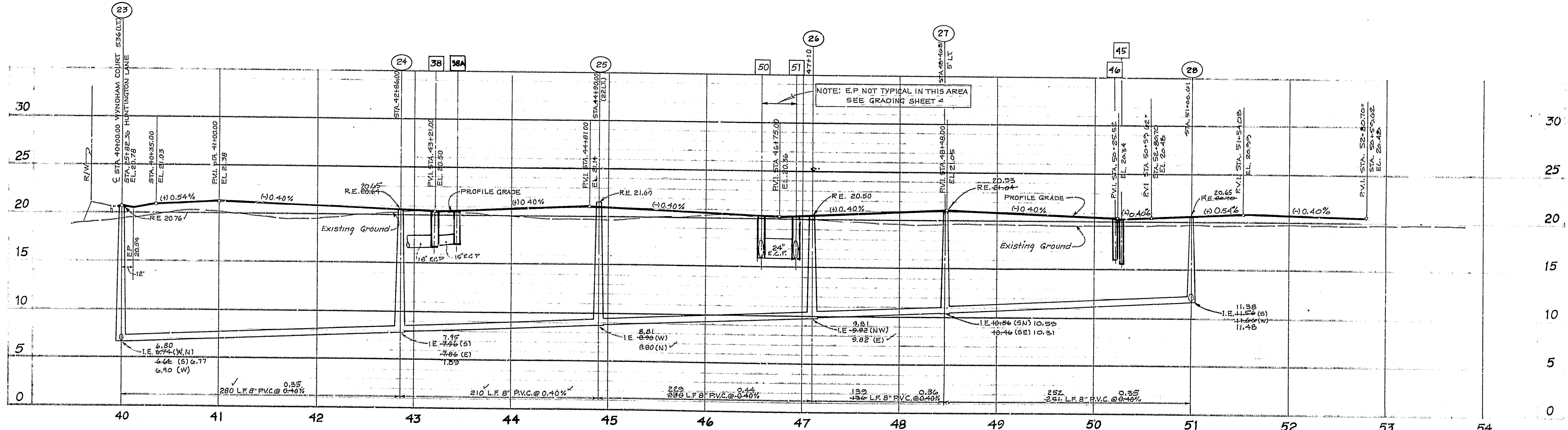
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.





KINGSCOTE COURT

CHESHIRE COURT



WYNDHAM WAY

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

DESIGN ESH  
DRAWN KAH  
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_

NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED IN THIS BLOCK

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

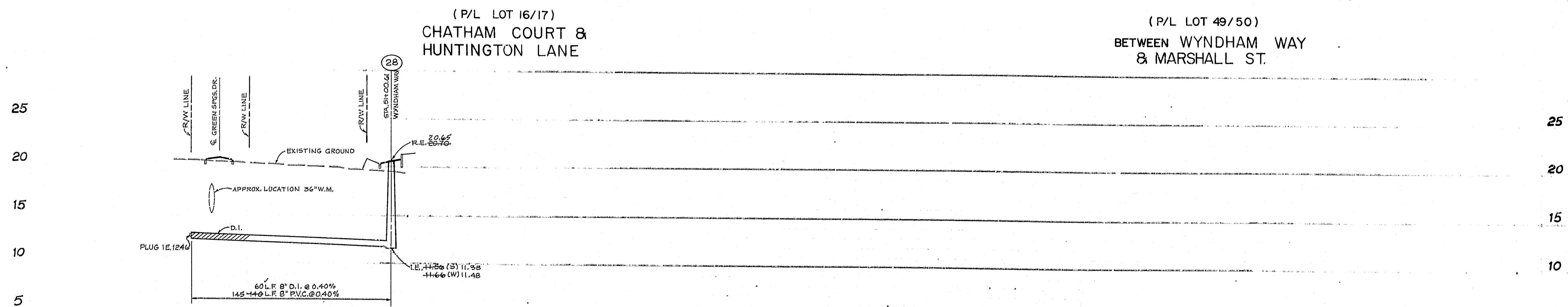
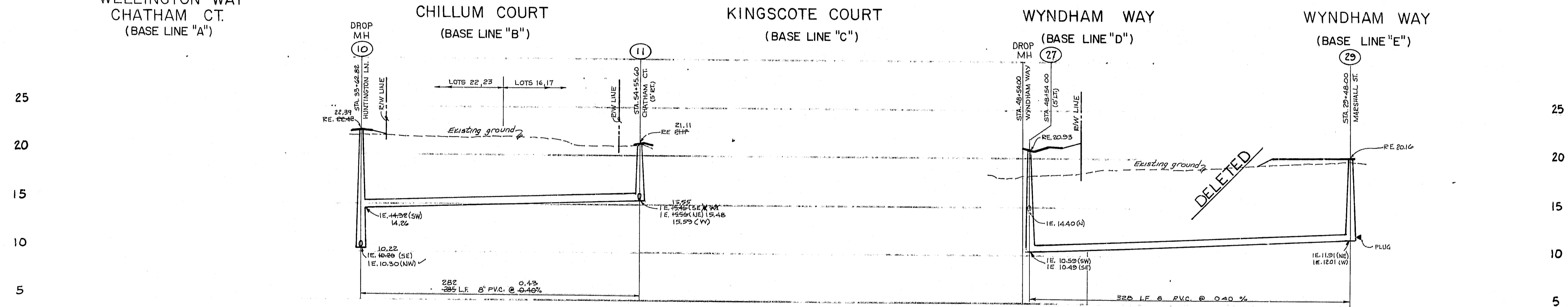
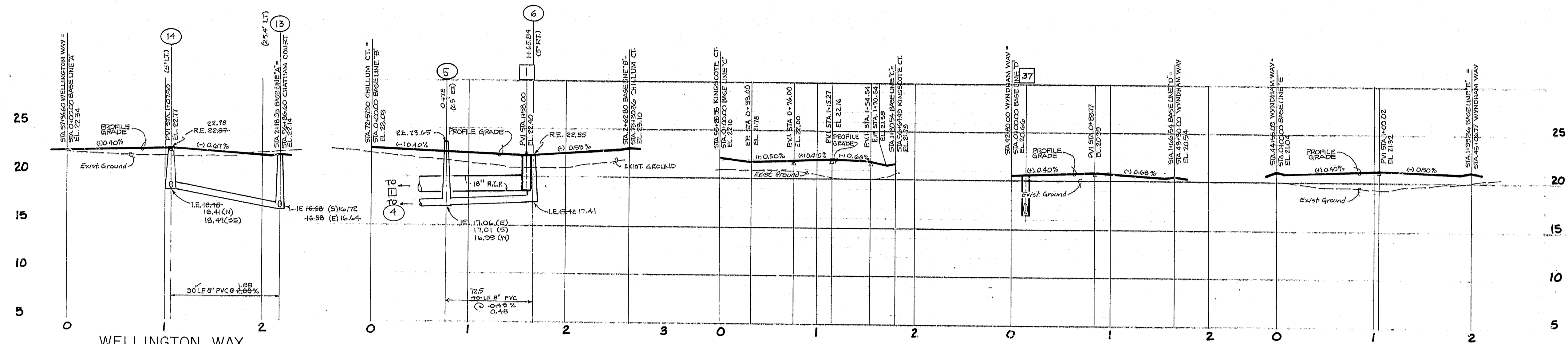
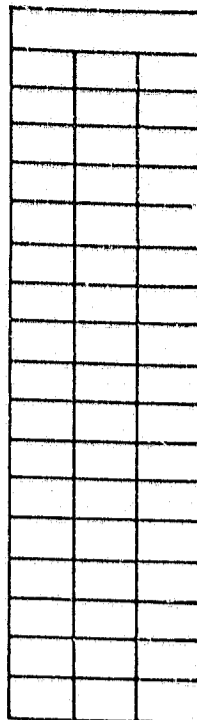
**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER, FLORIDA 33515

**PROFILES**

5	5-29-85	ADDED RECORD DATA.	JOB NO.	590-363.10
4	3-4-85	REV ROW, SAN SEW. & STORM WYNDHAM WAY	F.S. NO.	
3	1-30-85	REV M.H. 27, 28 & SAN. SEW.	DATE	SEPT. 14, 1984
2	1-30-85	REV STREET NAMES	SCALE	AS NOTED
1	1-30-85	REV STORM DRAINAGE CHESHIRE CT.	APP. BY	
NO.	DATE	REVISION	APP. BY	

SHEET 12 OF 22

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



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

DESIGN: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
O.C. \_\_\_\_\_

NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED IN THIS BLOCK

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER, FLA. 33515

**PROFILES**

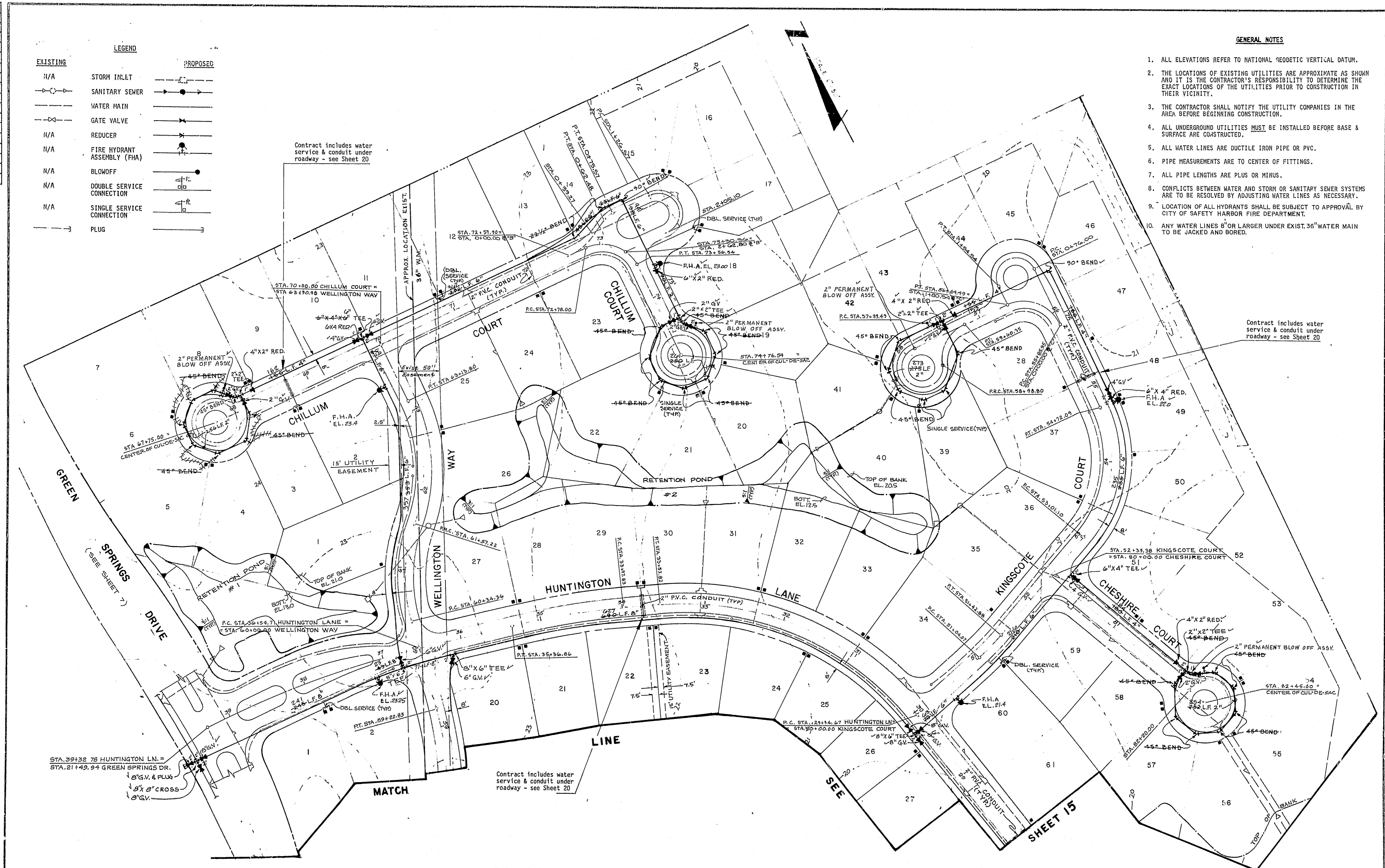
NO.	DATE	REVISION	APP'D BY
5			
4	5-23-85	ADDED RECORD DATA	
3	3-4-85	ADJUSTED SAN. SEW. LOT 45/46	
2	3-4-85	DELETED SAN. SEW. LOT 45/50	
1	1-30-85	REV. STREET NAMES; ADDED (P. LOT 45/46)	

JOB NO. 590-363.10  
DATE: SEPT. 14, 1984  
SHEET 13 OF 22

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS.  
SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

LEGEND	
EXISTING	PROPOSED
N/A	STORM INLET
	SANITARY SEWER
	WATER MAIN
	GATE VALVE
N/A	REDUCER
N/A	FIRE HYDRANT ASSEMBLY (FHA)
N/A	BLOWOFF
N/A	DOUBLE SERVICE CONNECTION
N/A	SINGLE SERVICE CONNECTION
	PLUG

- GENERAL NOTES**
1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM.
  2. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
  3. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION.
  4. ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE BASE & SURFACE ARE CONSTRUCTED.
  5. ALL WATER LINES ARE DUCTILE IRON PIPE OR PVC.
  6. PIPE MEASUREMENTS ARE TO CENTER OF FITTINGS.
  7. ALL PIPE LENGTHS ARE PLUS OR MINUS.
  8. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER SYSTEMS ARE TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
  9. LOCATION OF ALL HYDRANTS SHALL BE SUBJECT TO APPROVAL BY CITY OF SAFETY HARBOR FIRE DEPARTMENT.
  10. ANY WATER LINES 8" OR LARGER UNDER EXIST. 36" WATER MAIN TO BE JACKED AND BORED.



Contract includes water service & conduit under roadway - see Sheet 20

Contract includes water service & conduit under roadway - see Sheet 20

Contract includes water service & conduit under roadway - see Sheet 20

DESIGN: SSJ  
 DRAWN: G. GORFORTH  
 CHECK: RFL

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

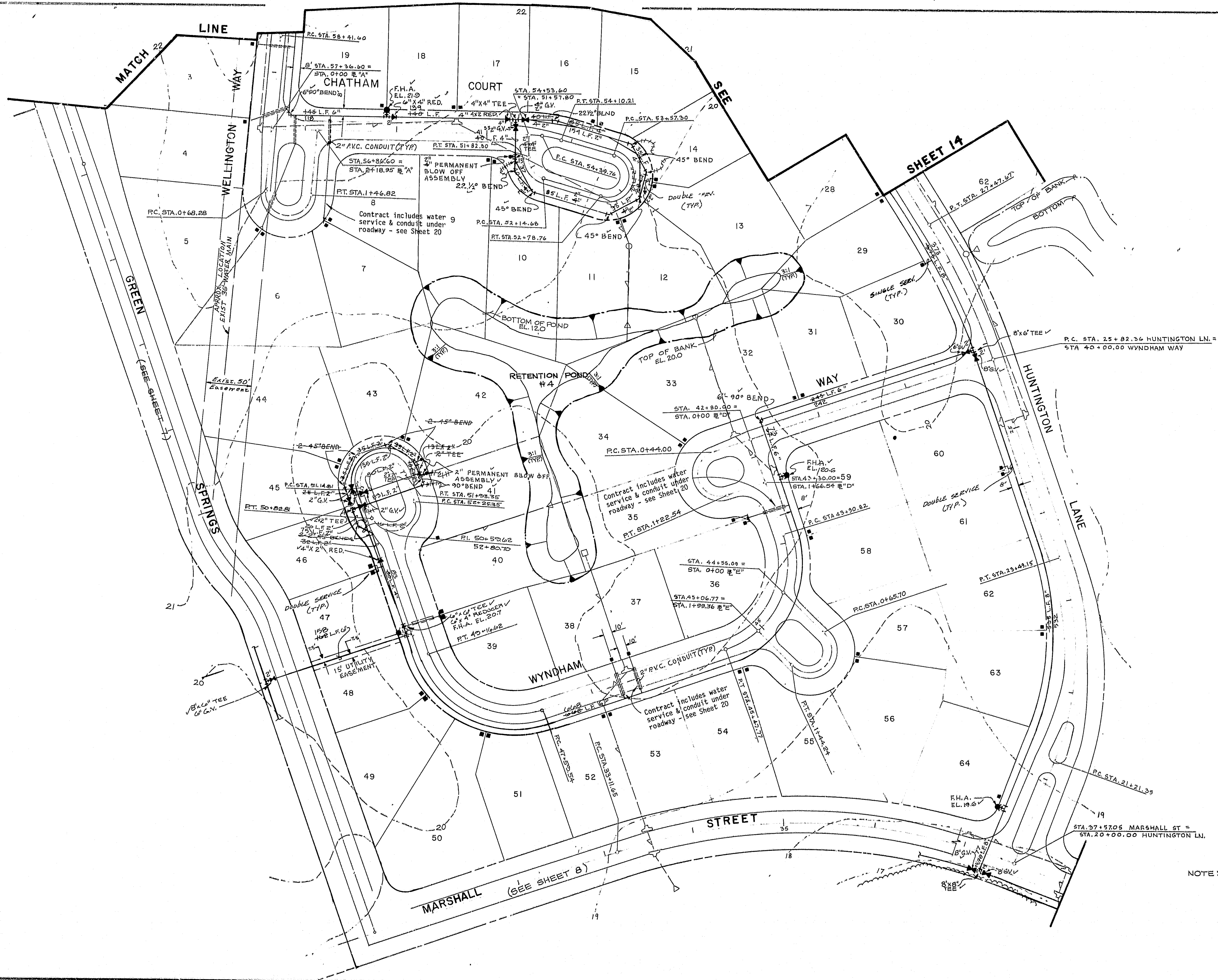
**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER FLA. 33615

**WATER DISTRIBUTION PLAN**

6	10-14-85	ADDED CONTRACTOR'S RECORD DATA		
5	1-30-85	REV METER LOCATION CHESHIRE CT.		
4	1-22-85	CHG. STREET NAME		
3	1-22-85	REV. LOT 14; RET. POND #1; D.E.R. LINE		
2	1-3-85	REV. WATER IN COURTS		
1	11-7-84	ADDED NOTE #9 PER CITY OF SAFETY HARBOR		
NO.	DATE	REVISION	APP'D BY	

RECORD DRAWINGS SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



NOTE: SEE SHEET 14 FOR NOTES AND LEGEND.

Post, Buckley, Schuh & Jernigan, Inc.  
CONSULTING ENGINEERS and PLANNERS

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER FLA. 33515

**WATER DISTRIBUTION PLAN**

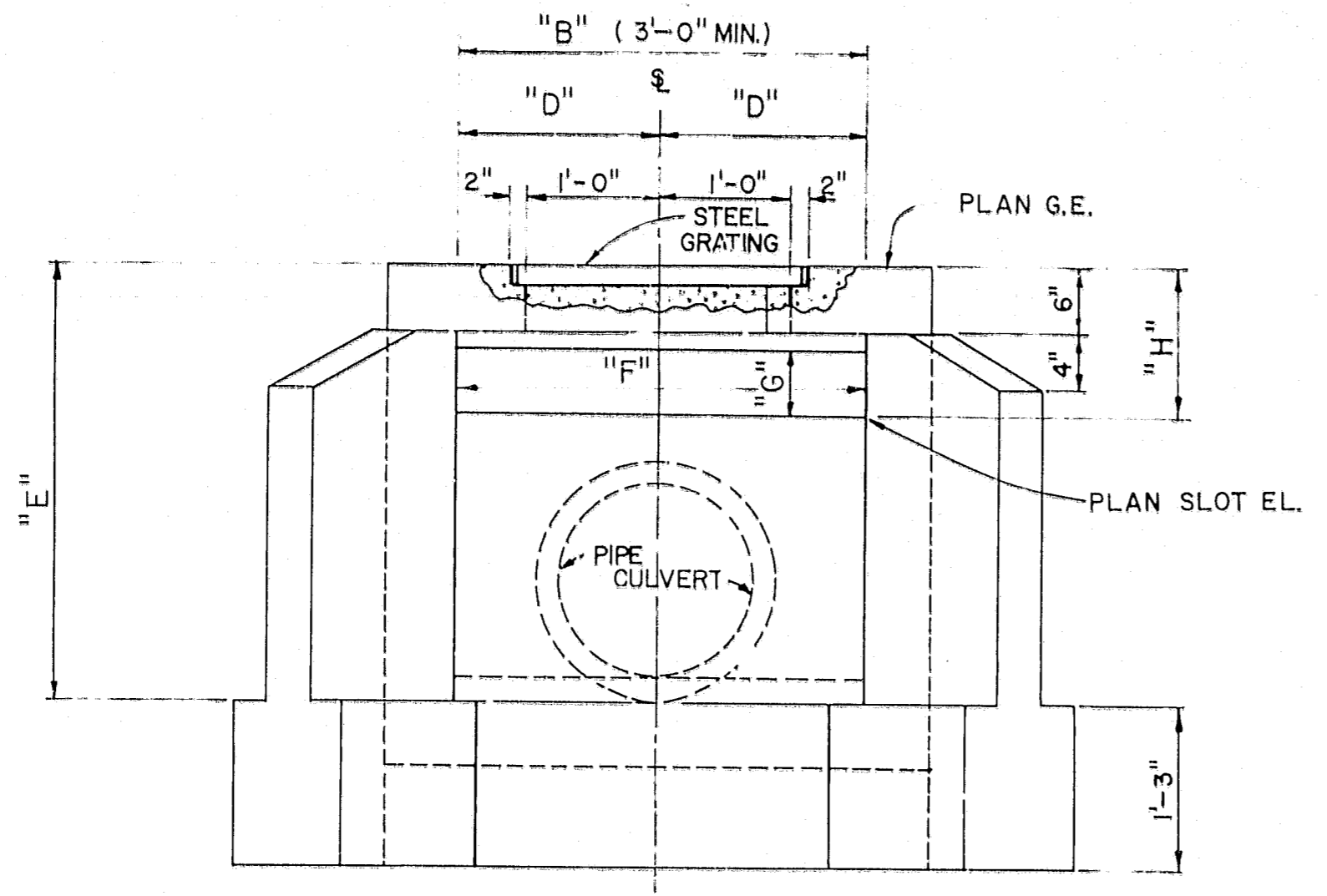
NO.	DATE	REVISION	APP'D BY
5			
4	10-14-83	ADDED CONTRACTORS RECORD DATA	
3	3-4-85	REV. WATER LINE WYNDHAM WAY	
2	1-22-85	REV. LOT 33 & 29 STREET NAMES	
1	11-7-84	REV. WATER PER CITY OF SAFETY HARBOR	

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.





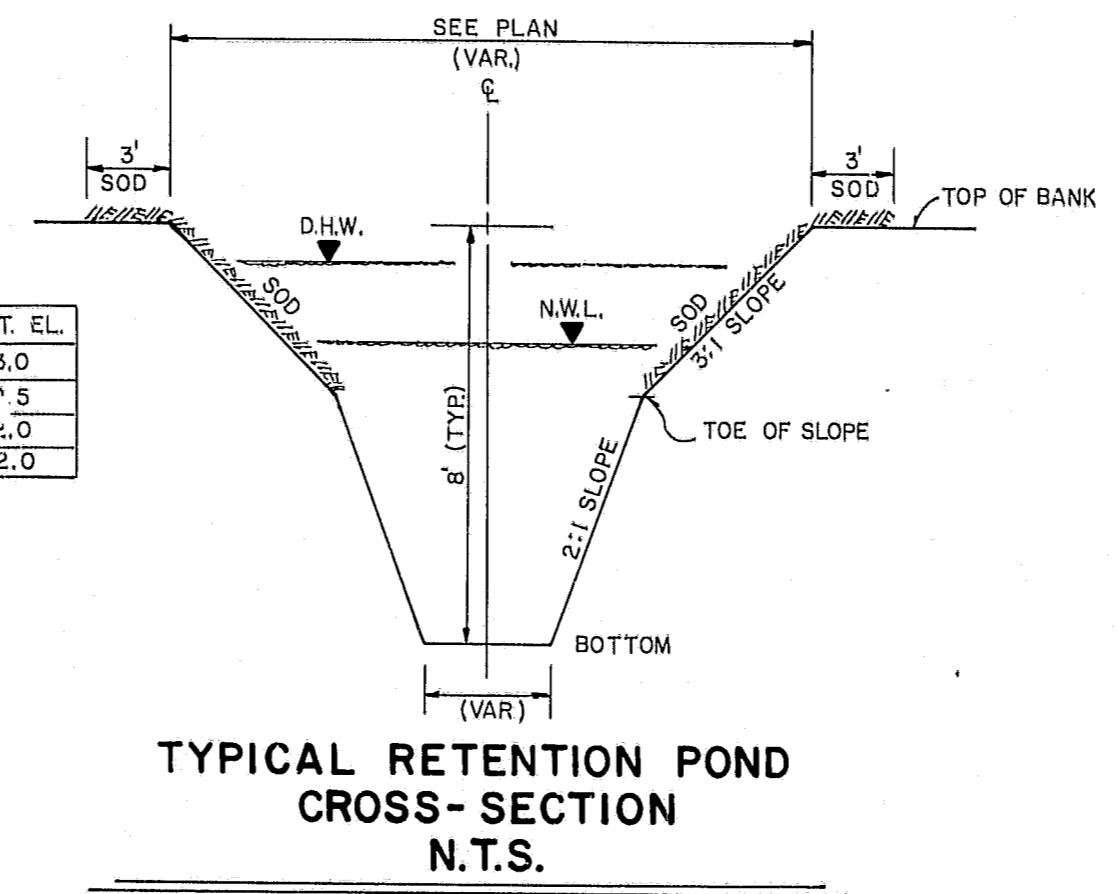
STRUCTURE NO.	STANDARD DIMENSIONS							
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
8	3'-6"	3'-0"	1'-9"	1'-6"	4.51'	1.0'	0.5'	1.2'
20	3'-6"	4'-0"	1'-9"	2'-0"	3.24'	3.92'	0.58'	1.08'
49	3'-6"	3'-0"	1'-9"	1'-6"	2.33'	1.91'	0.75'	1.25'
62	3'-6"	4'-0"	1'-9"	2'-0"	2.95'	4.16'	0.9'	1.40'



RIGHT SIDE VIEW "A-A"

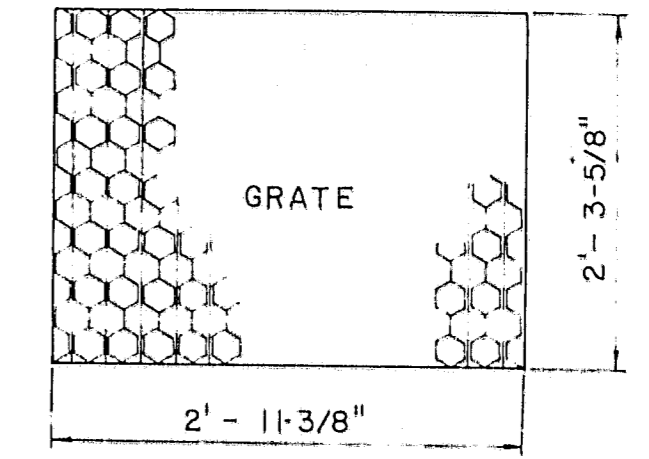
RETENTION POND DATA

POND #	T.O.B. EL.	D.H.W. EL.	N.W.L. EL.	5% SLOPE	BOTT. EL.
1	21.0	20.0	18.50	17.27	13.0
2	20.5	19.5	18.00	15.00	11.5
3	20.0	19.50	17.50	16.50	12.0
4	20.0	19.00	17.30	15.88	12.0

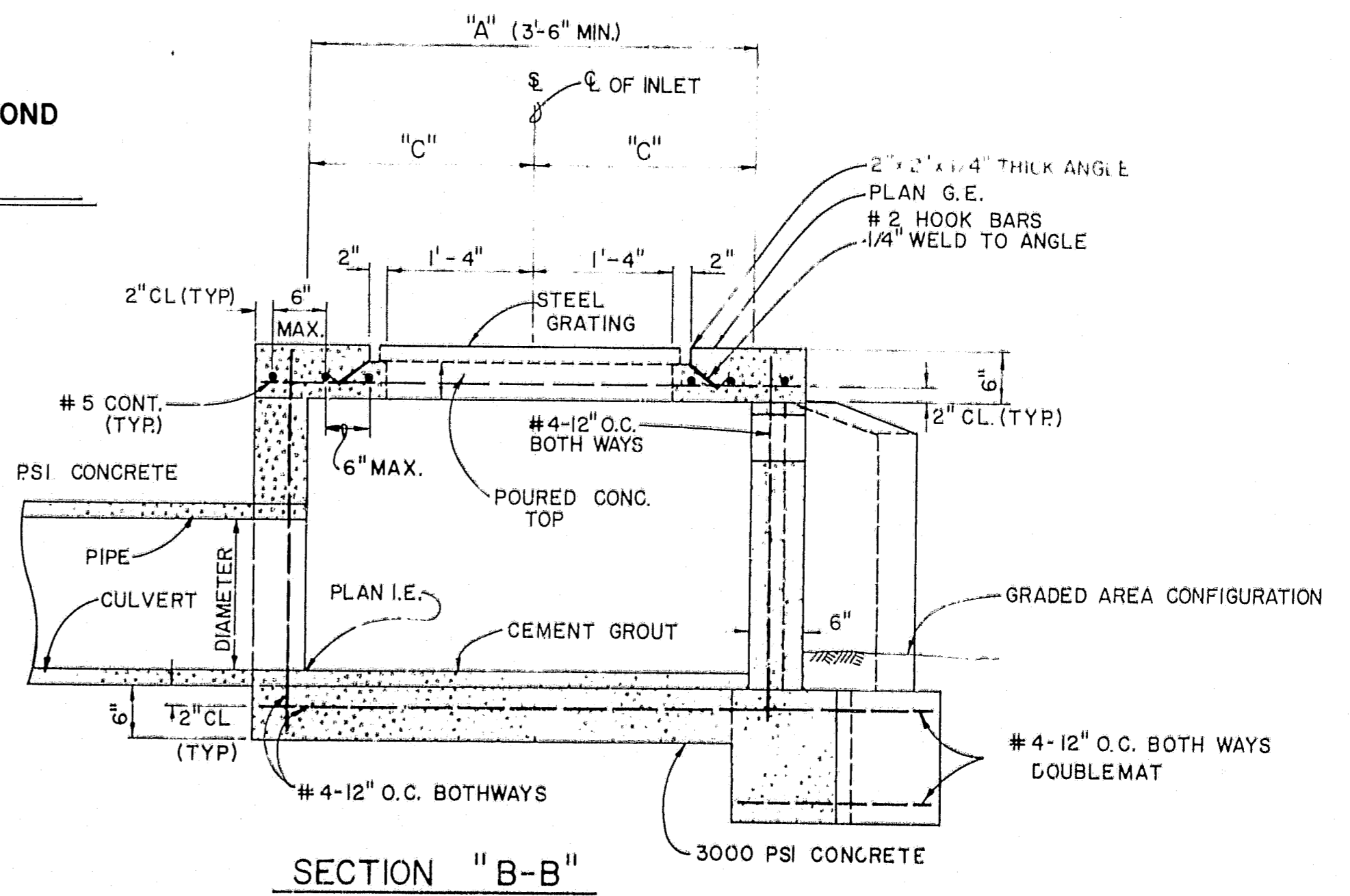
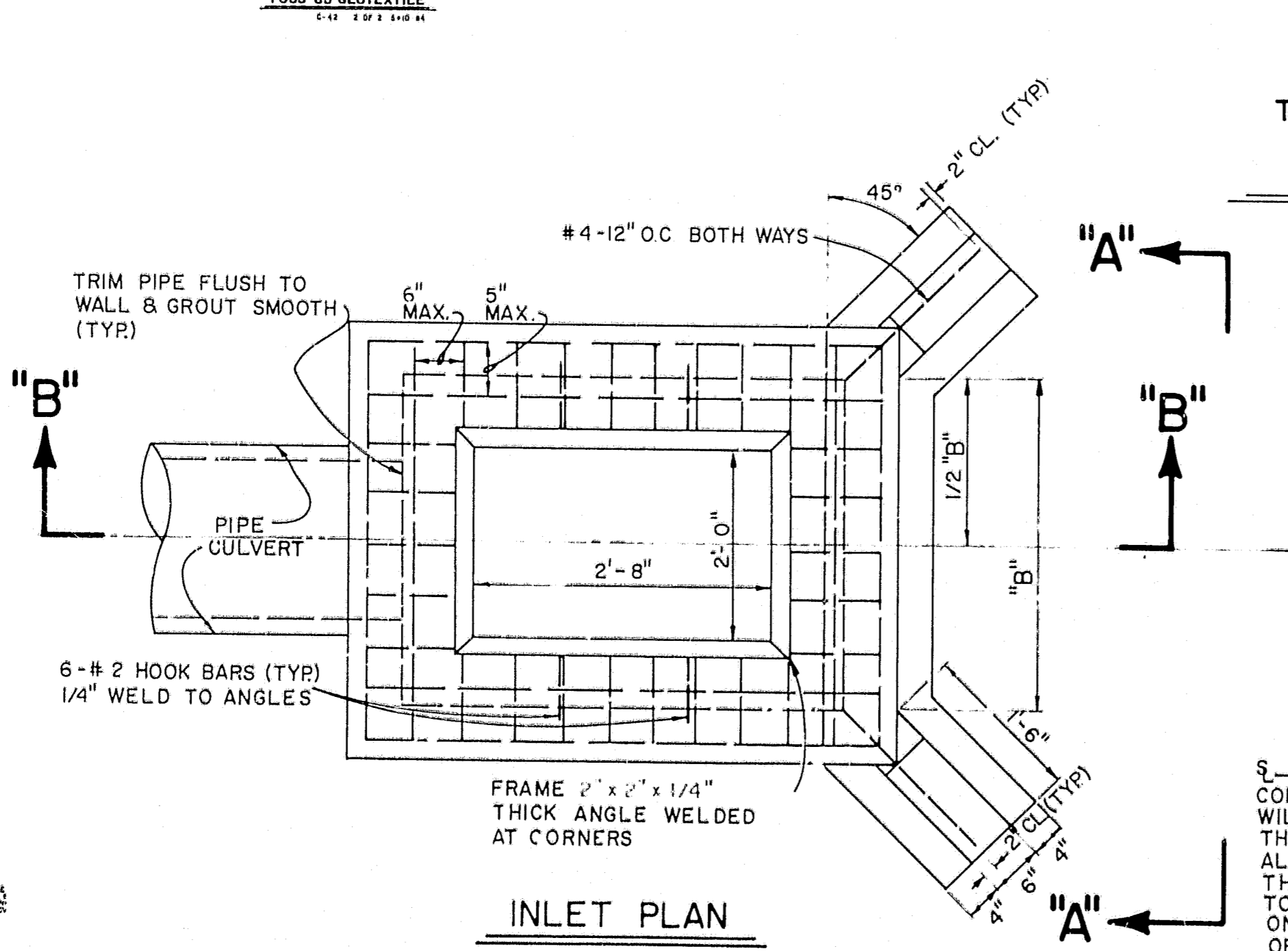


NOTE CONTRACTOR TO RECESS 2" x 2" x 1/4" ANGLE 1/4" BELOW PLAN G.E. SO AS TO INSURE STEEL GRATING IS FLUSH WITH CONCRETE SLAB

CONSTRUCT STEEL GRATING FROM U.S. FOUNDRY & MFG. CORP. (U.S.F. No 6610) OR APPROVED EQUAL.



STEEL GRATING



SECTION LINE DENOTES SURVEY LINE CONSTRUCTION OFFSET STAKES WILL BE PLACED 15 FEET FROM THE SURVEY LINE INTERSECTION ALONG THE SURVEY LINES. THE CONTRACTOR IS REQUIRED TO LEAVE IN PLACE AT LEAST ONE STAKE FOR VERIFICATION OF INSTALLATION

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

TYPE "T-000" INLET

C-30 8-30-83

Post, Buckley, Schuh & Jernigan, Inc.  
CONSULTING ENGINEERS and PLANNERS

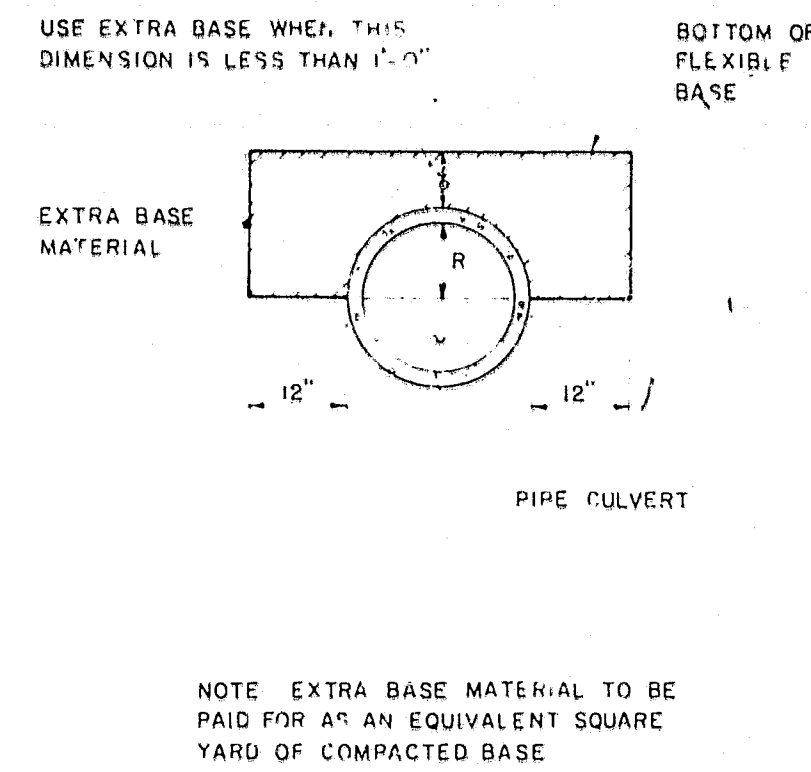
HUNTINGTON TRAILS  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER FLA. 33515

STORM SEWER STANDARD DETAILS

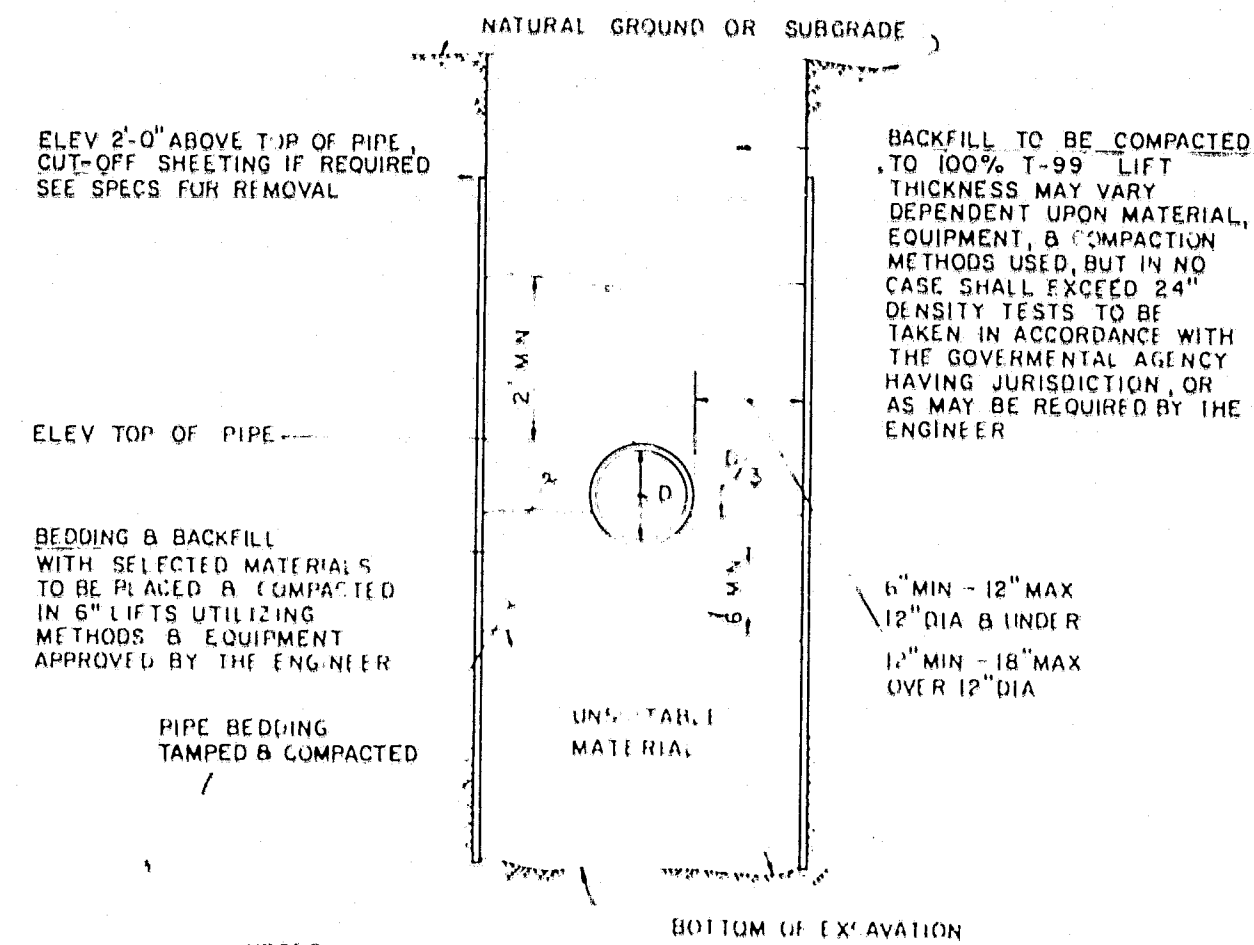
1-30-85 REV. "E" DIM. STR. #20, 49, 62, 11" DIM. STR. #2  
1-17-85 REV. "E" DIM. STR. #20, 11" DIM. STR. #20

590-363.10

SEPT. 14, 1984

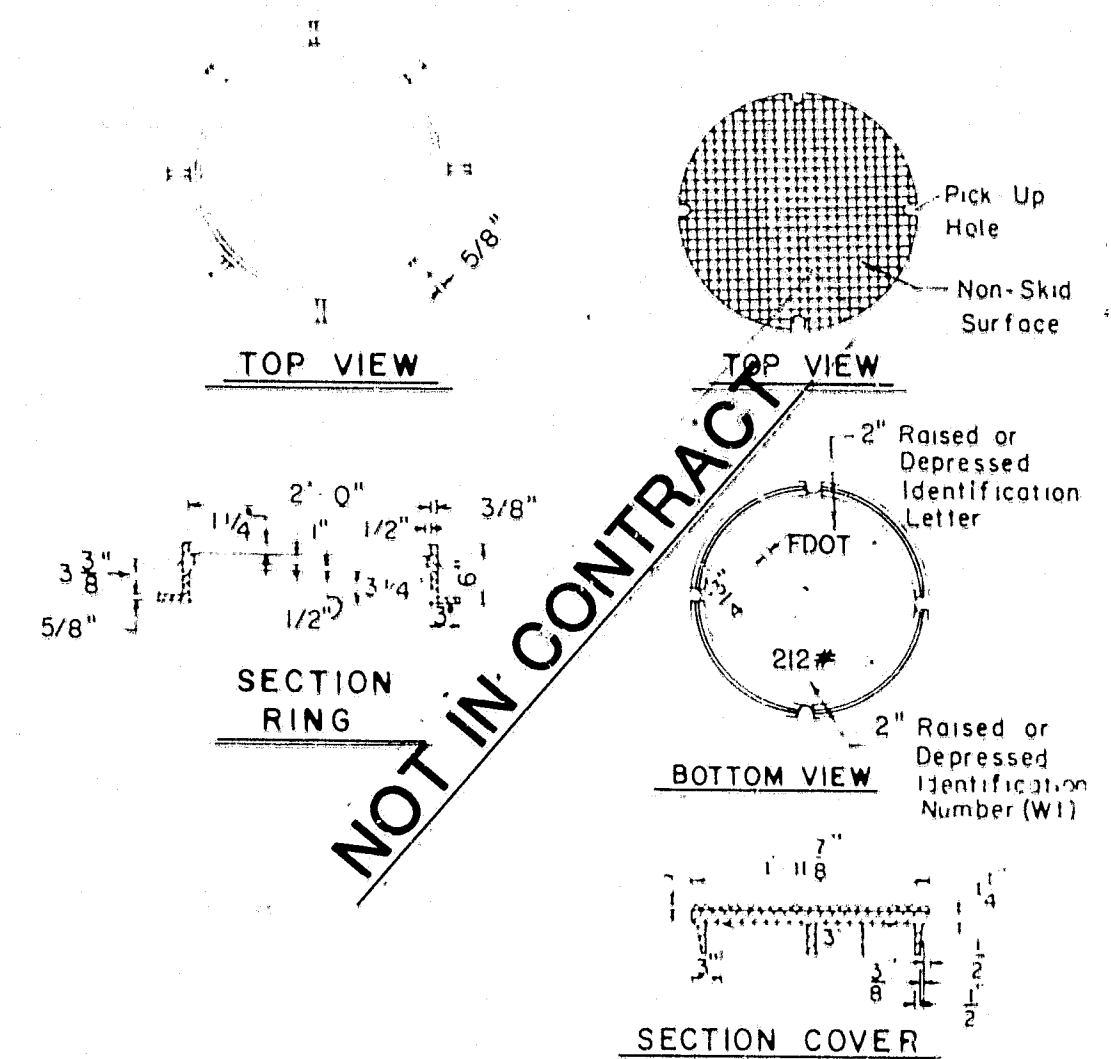


**EXTRA BASE CONSTRUCTION FOR THE PROTECTION OF CULVERTS WITH LESS THAN MINIMUM COVER**

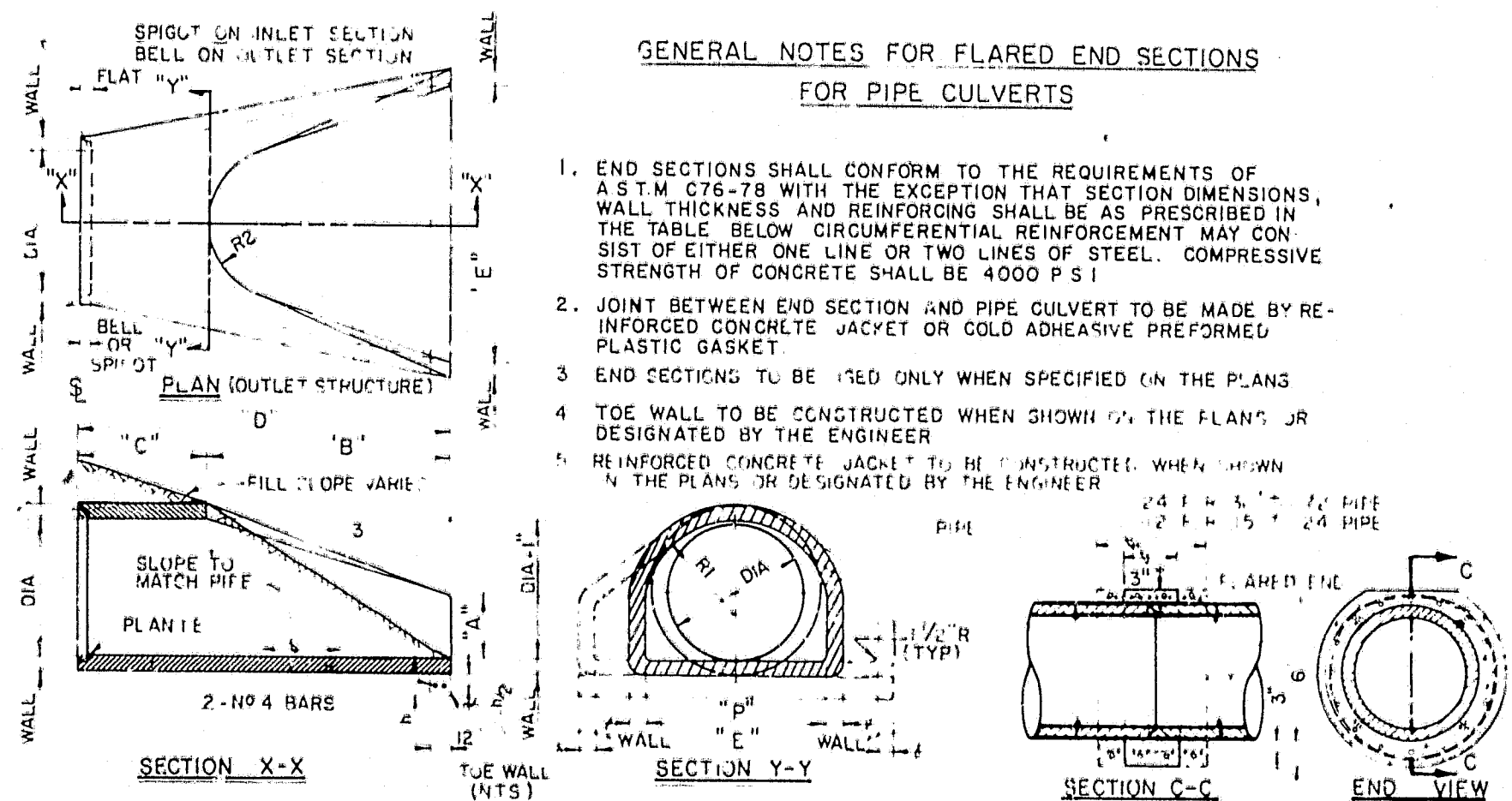


**NOTES**  
 1. FOR TRENCHES IN PAVED AREAS OR AREAS TO RECEIVE NEW PAVEMENT, SEE PAVEMENT SPECIFICATIONS.  
 2. WHERE BACKFILL IS PLACED BELOW THE WATER LEVEL IN THE TRENCH, THE BACKFILL MATERIAL SHALL BE CAREFULLY AND UNIFORMLY RAMMED AROUND BOTH SIDES OF THE PIPE TO PROPERLY BEG AND SUPPORT THE PIPE. NO SPECIFIC DENSITY IS REQUIRED UNTIL THE FILL HAS REACHED A LEVEL SIX INCHES ABOVE WATER TABLE AT WHICH ELEVATION AND ABOVE ALL BACKFILL SHALL BE COMPACTED AS SPECIFIED.

**TYPICAL TRENCH SECTION**



**STORM SEWER MANHOLE COVER DOT INDEX NO 201 JANUARY 1983**  
 C-19 1-3-84



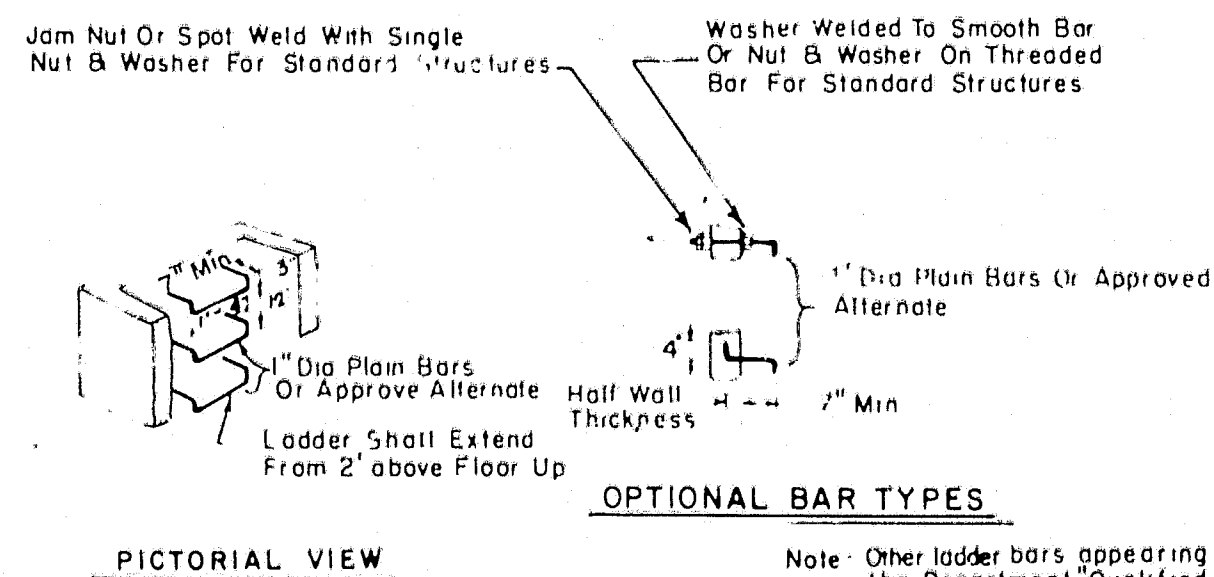
**GENERAL NOTES FOR FLARED END SECTIONS FOR PIPE CULVERTS**

1. END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. C75-78 WITH THE EXCEPTION THAT SECTION DIMENSIONS, WALL THICKNESS AND REINFORCING SHALL BE AS PRESCRIBED IN THE TABLE BELOW. CIRCUMFERENTIAL REINFORCEMENT MAY CONSIST OF EITHER ONE LINE OR TWO LINES OF STEEL. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4000 P.S.I.
2. JOINT BETWEEN END SECTION AND PIPE CULVERT TO BE MADE BY REINFORCED CONCRETE JACKET OR COLD ADHESIVE PREFORMED PLASTIC GASKET.
3. END SECTIONS TO BE USED ONLY WHEN SPECIFIED ON THE PLANS.
4. TOE WALL TO BE CONSTRUCTED WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER.
5. REINFORCED CONCRETE JACKET TO BE CONSTRUCTED WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER.

DIA	WALL THK	REINF BAR	BELL DIA	A	B	C	D	E	P	R1	R2	FLAT	WEIGHT (LBS)	TOE WALL H
15	2 1/4	007	3	6 1/2	3	3 1/2	6-1	2-6	24 3/4	12 1/2	11	3 1/2	740	12"
18	2 1/2	007	3	9	3 1/2	3 1/2	6-1	3	29 1/2	15 1/2	12	4	990	15"
21	3	007	3	9	3 1/2	3 1/2	6-1	4	33 1/2	16 1/2	14	4 1/2	520	18"
27	3	007	3	10 1/2	4	4	6-1	4	36 1/2	18 1/2	14	4 1/2	1930	18"
30	3	007	3	10 1/2	4	4	6-1	5	37 1/2	18 1/2	15	5	2190	21"
36	4	148	3 1/2	13	5-3	2-10 1/2	8-1 1/2	6-0	47 1/2	24 1/2	20	5 1/2	4100	21"
42	4 1/2	148	3 1/2	19	5-3	2-11	8-2	6-6	53 1/2	27 1/2	24	5 1/2	5380	24"
48	5	148	4	20	5-3	2-11	8-2	7-0	56 1/2	28 1/2	24	5 1/2	6550	24"
54	5 1/2	174	4 1/2	23 1/2	5-3	2-11	8-4	7-6	65 1/2	33 1/2	24	6 1/2	8140	24"
60	6	174	5 1/2	26 1/2	5-3	2-11	8-4	8-0	72 1/2	36 1/2	24	6 1/2	8500	24"
66	6 1/2	174	5 1/2	29 1/2	5-3	2-11	8-4	8-6	72 1/2	36 1/2	24	6 1/2	10630	24"
72	7	174	6	32 1/2	5-3	2-11	8-4	9-0	78 1/2	38 1/2	24	7 1/2	12520	24"

**FLARED END SECTIONS FOR PIPE CULVERTS**

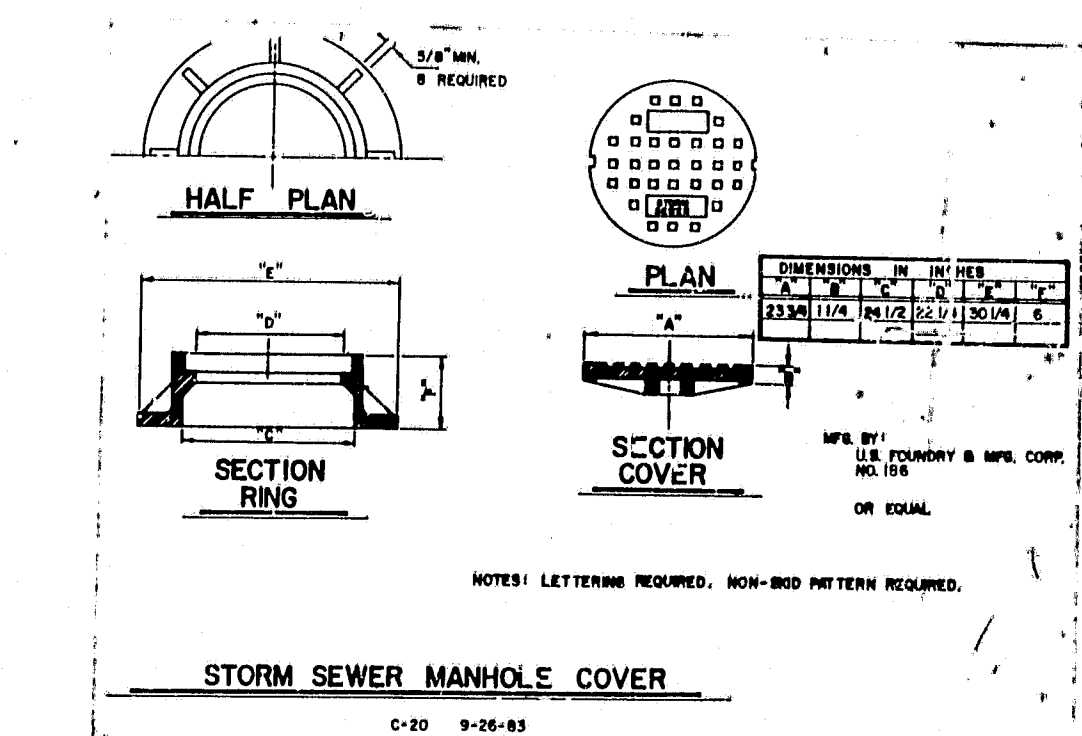
C-23 7-17-82



**PICTORIAL VIEW**

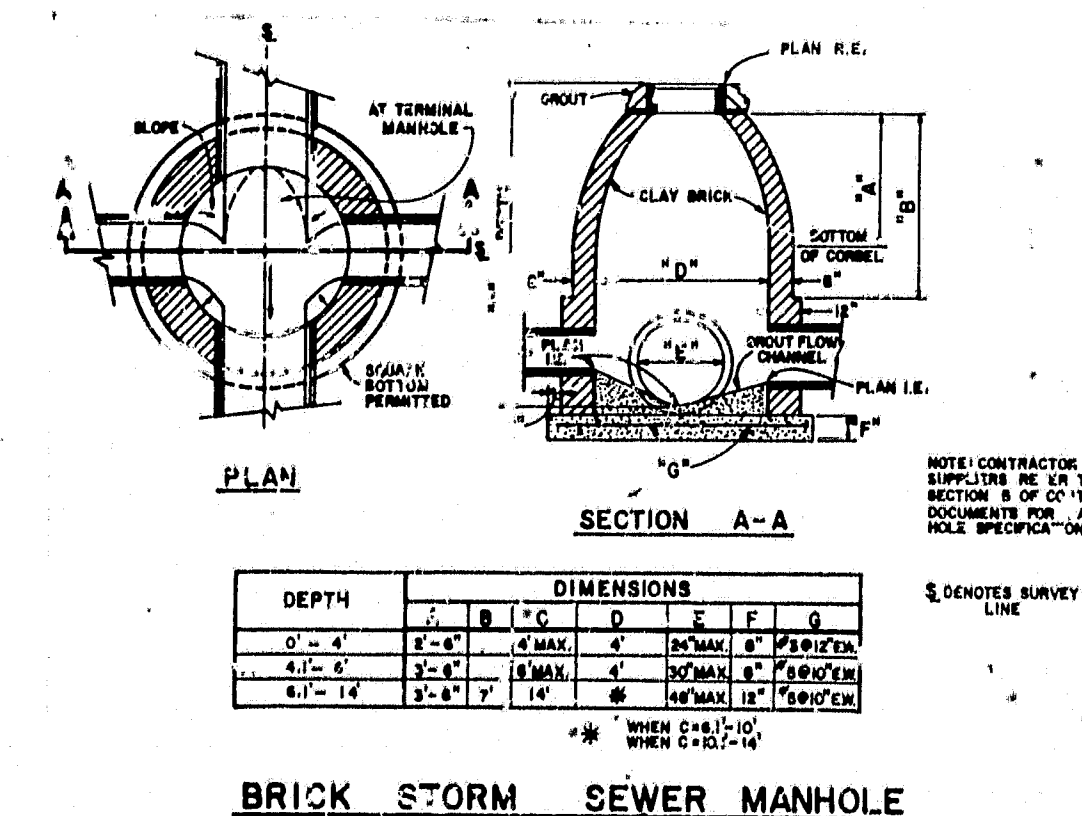
Note: Other ladder bars appearing on the Department's Qualified Products List may be used in accordance with the ladder bar manufacturers' recommendations.

**LADDER BARS FOR STRUCTURES OVER 5' IN DEPTH**



**STORM SEWER MANHOLE COVER**

C-20 9-26-83



DEPTH	DIMENSIONS					
	A	B	C	D	E	F
0' - 4'	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
4' - 6'	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
6' - 14'	3'-8"	3'-8"	3'-8"	3'-8"	3'-8"	3'-8"

**BRICK STORM SEWER MANHOLE**

DESIGN: \_\_\_\_\_  
 DRAWN: STD.  
 CHECKED: \_\_\_\_\_  
 G.C.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

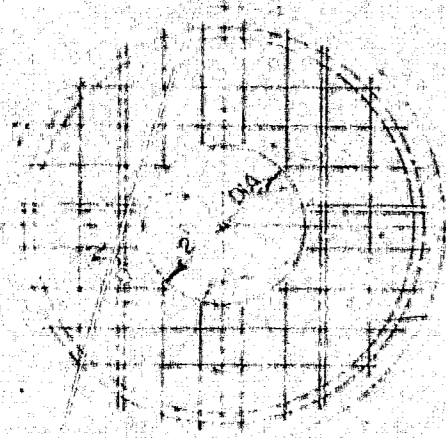
**Post, Buckley, Schuh & Jernigan, Inc.**  
 CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
 FOR: COMMUNITY CONCEPT GROUP  
 CLEARWATER FLA. 33515

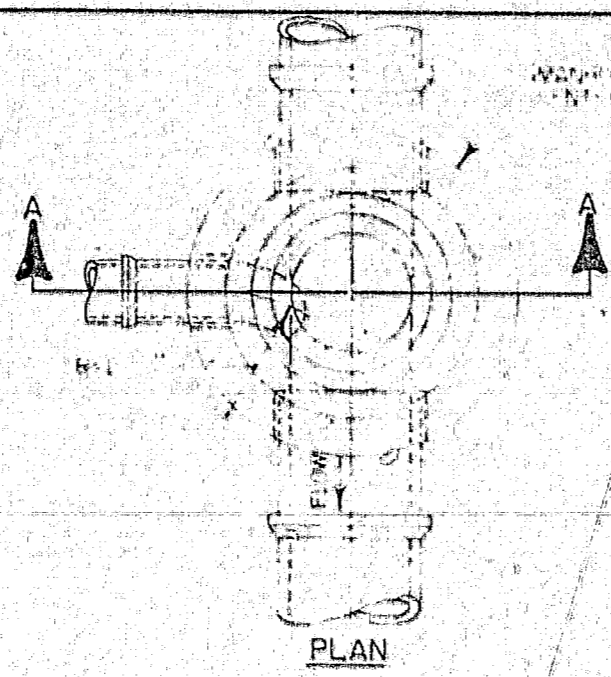
**STORM SEWER STANDARD DETAILS**

5				JOB NO.	690-363.10
4				DATE	SEPT. 14, 1984
3				APP'D BY	
2					
1					
NO.	DATE	REVISION	APP'D BY		

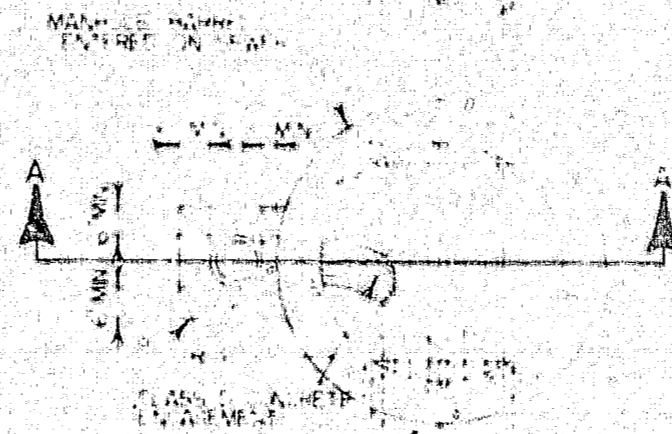
"RECORD DRAWINGS" SHOWS THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



TOP SLAB DETAIL



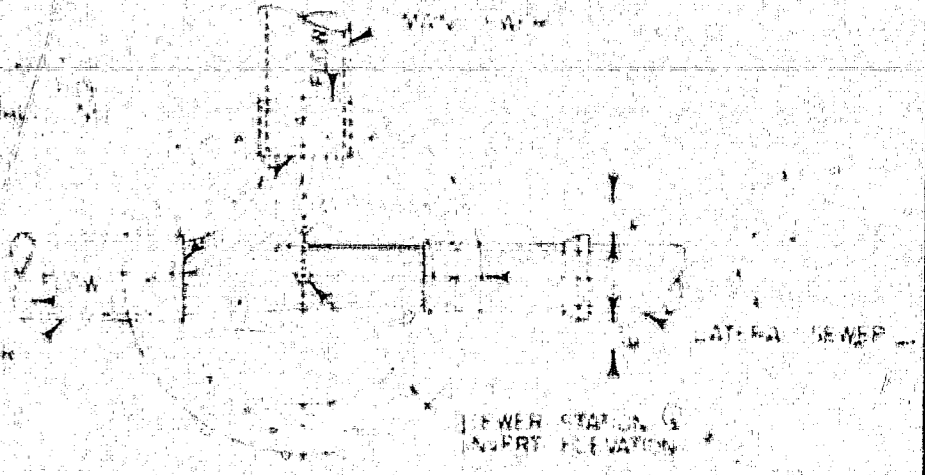
PLAN



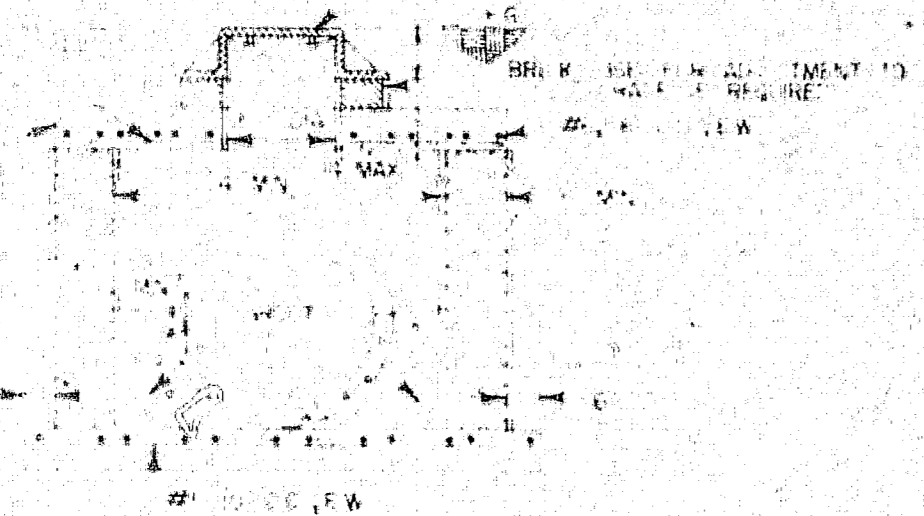
SECTIONAL PLAN

TANDARD MANHOLE  
SCHEDULE OF INVERT CHANNEL DIMENSION

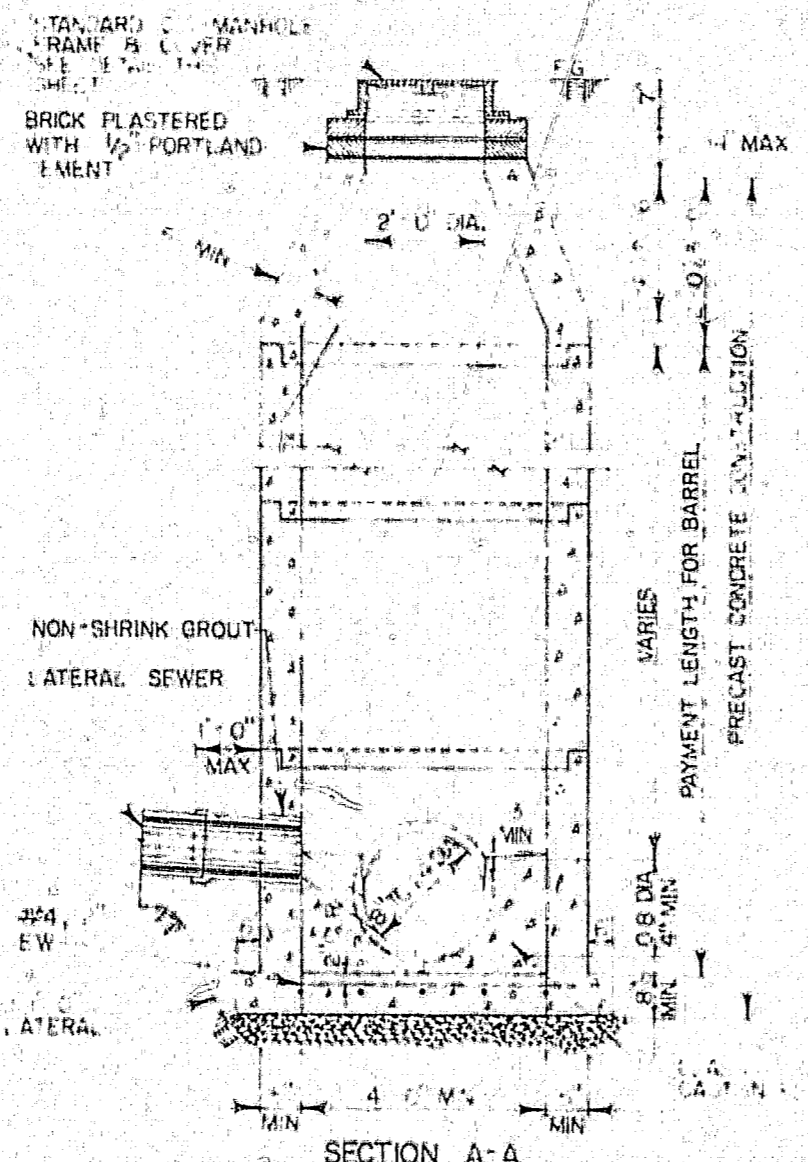
PIPE SIZE	MIN. INVERT	MAX. INVERT
18"	1.00'	1.10'
24"	1.10'	1.20'
30"	1.20'	1.30'
36"	1.30'	1.40'
42"	1.40'	1.50'
48"	1.50'	1.60'
54"	1.60'	1.70'
60"	1.70'	1.80'



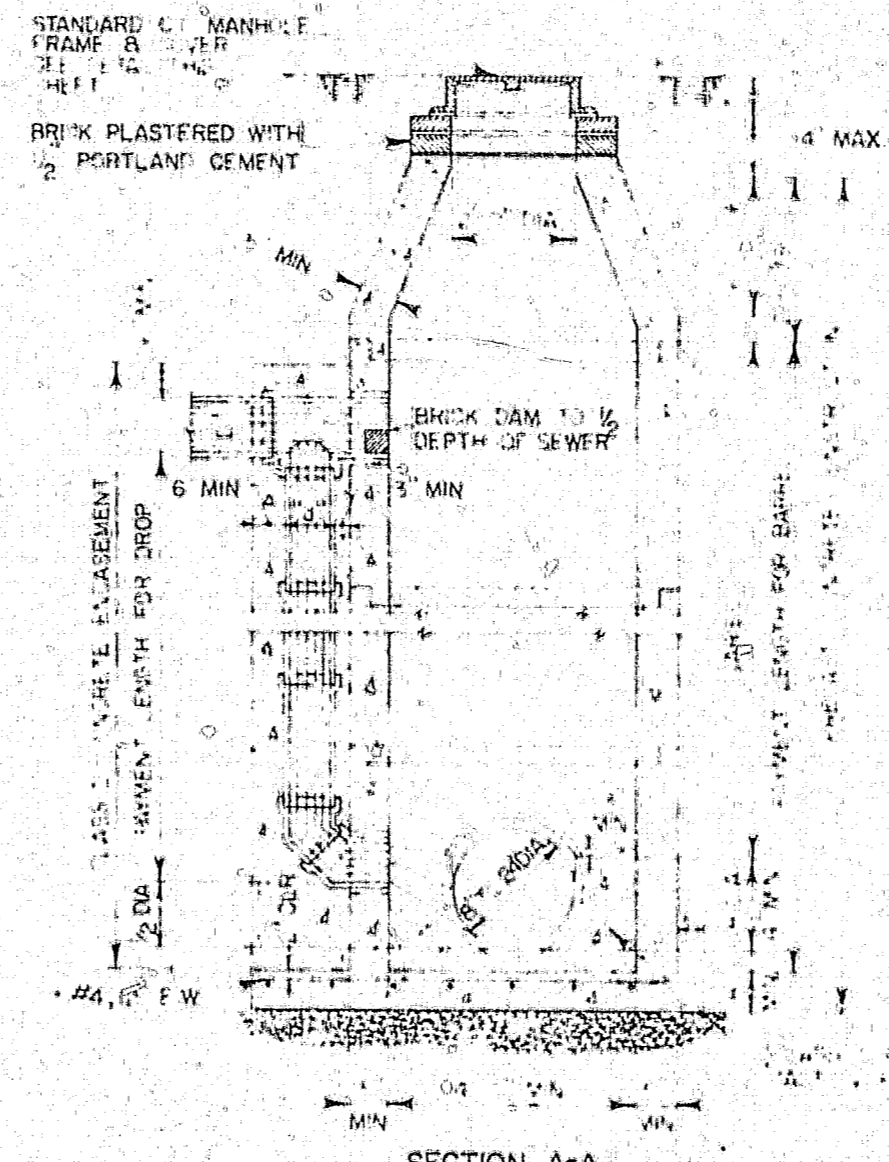
SECTIONAL INVERT PLAN  
MAN SEWER @ CHANGE OF DIRECTION



SHALLOW MANHOLE



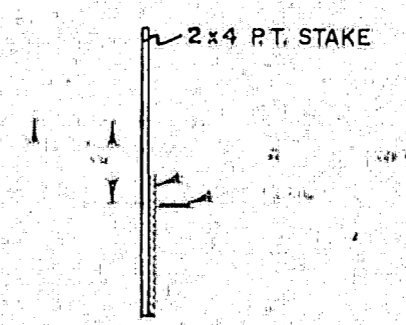
SECTION A-A  
STANDARD MANHOLE



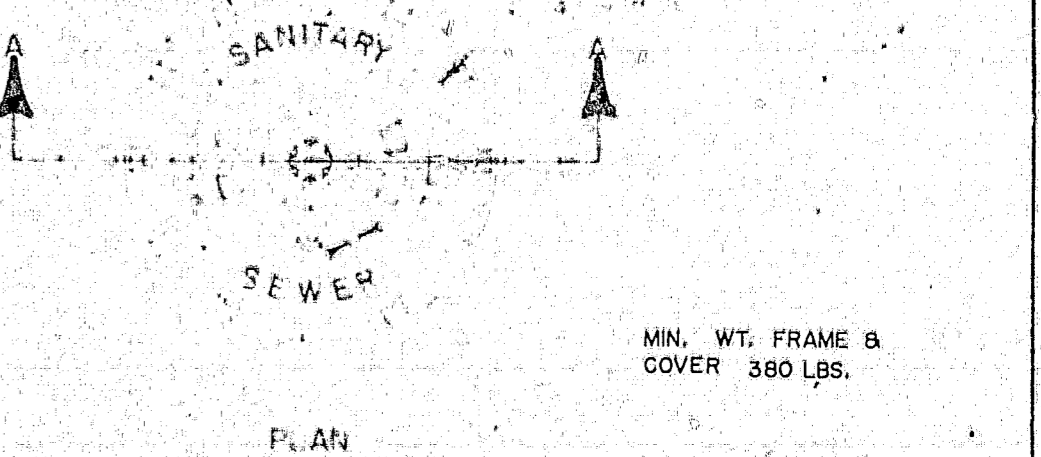
SECTION A-A  
STANDARD DROP MANHOLE



SECTIONAL INVERT PLAN

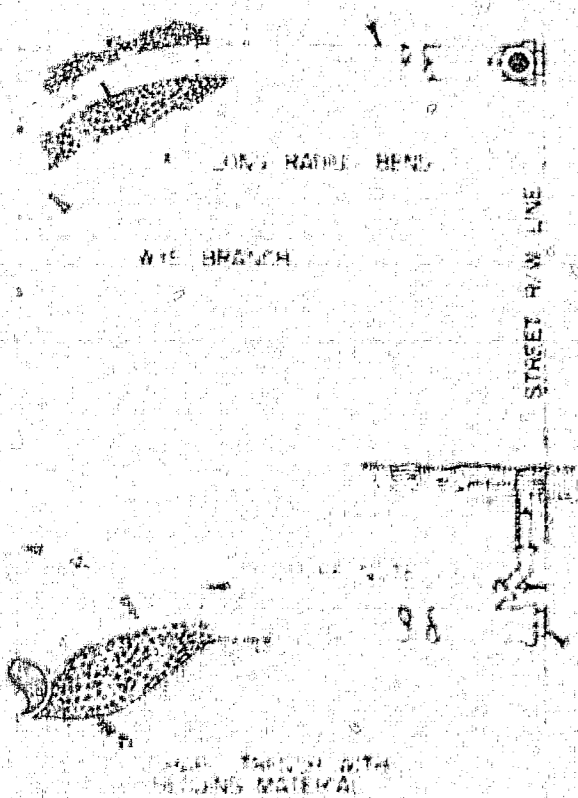


TYPICAL CLEANOUT

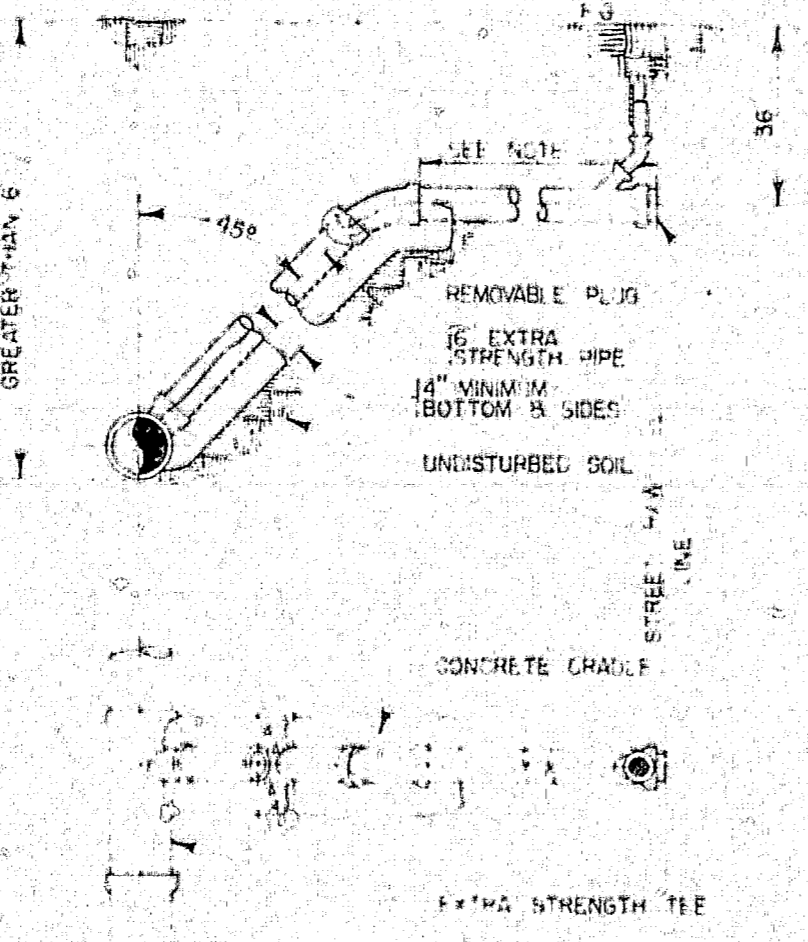


PLAN

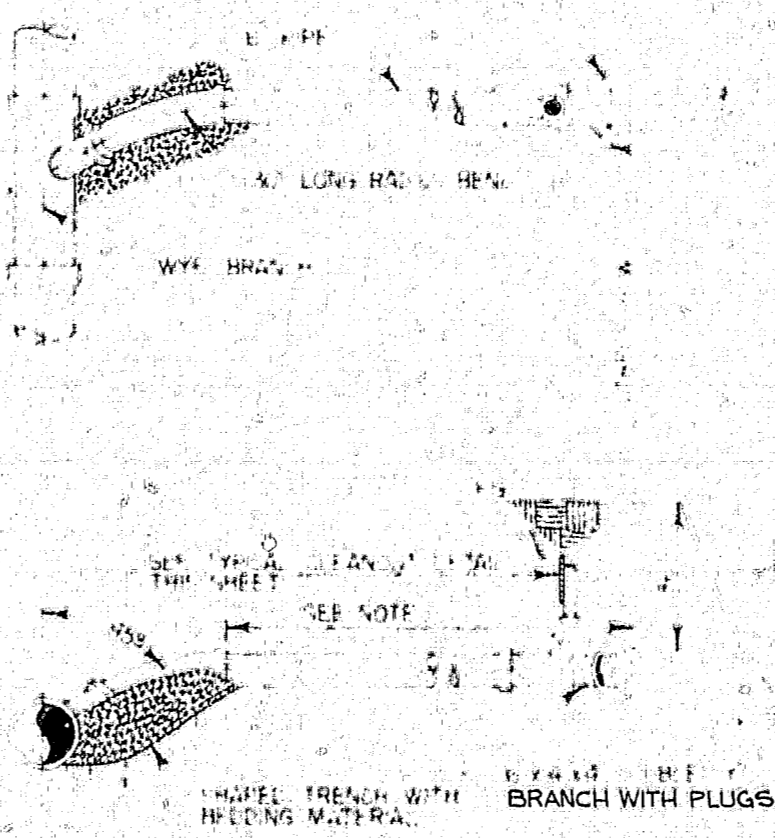
SECTION A-A  
STD CAST IRON MANHOLE FRAME & COVER



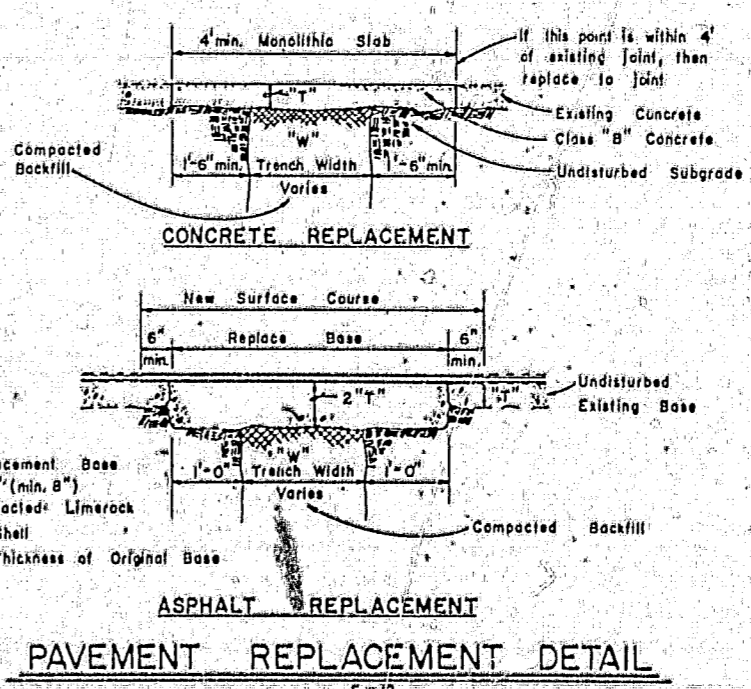
STANDARD SERVICE CONNECTION



STANDARD SERVICE DROP CONNECTION



DOUBLE SERVICE CONNECTION



PAVEMENT REPLACEMENT DETAIL

DESIGN: \_\_\_\_\_  
DRAWN: STD.  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

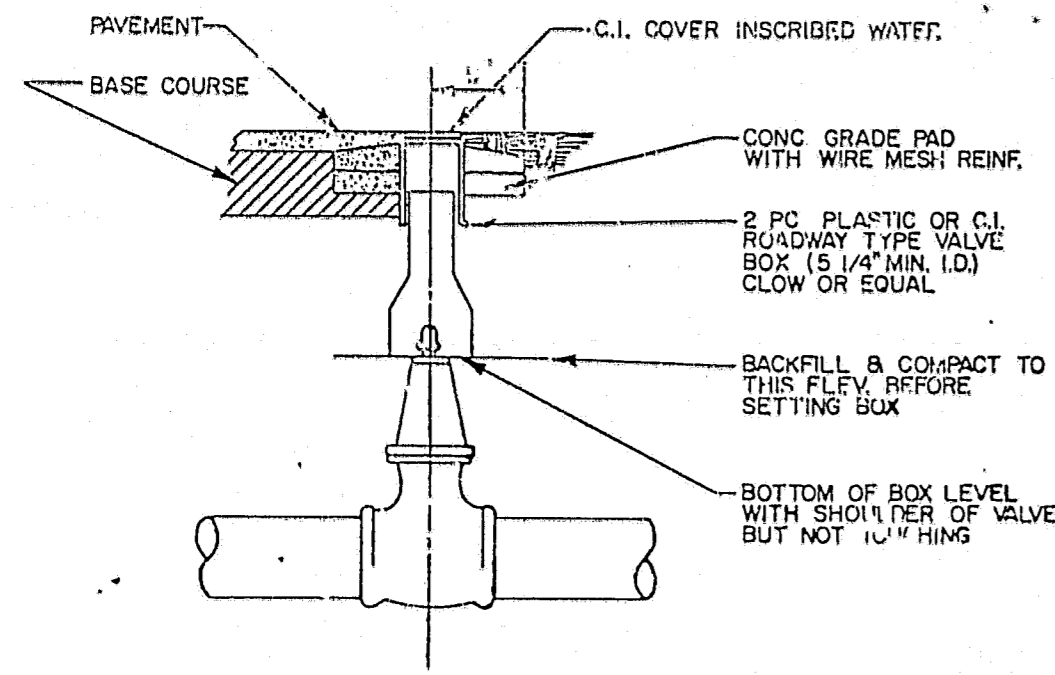
**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER FLA. 33515

**SANITARY SEWER**  
**STANDARD DETAILS**

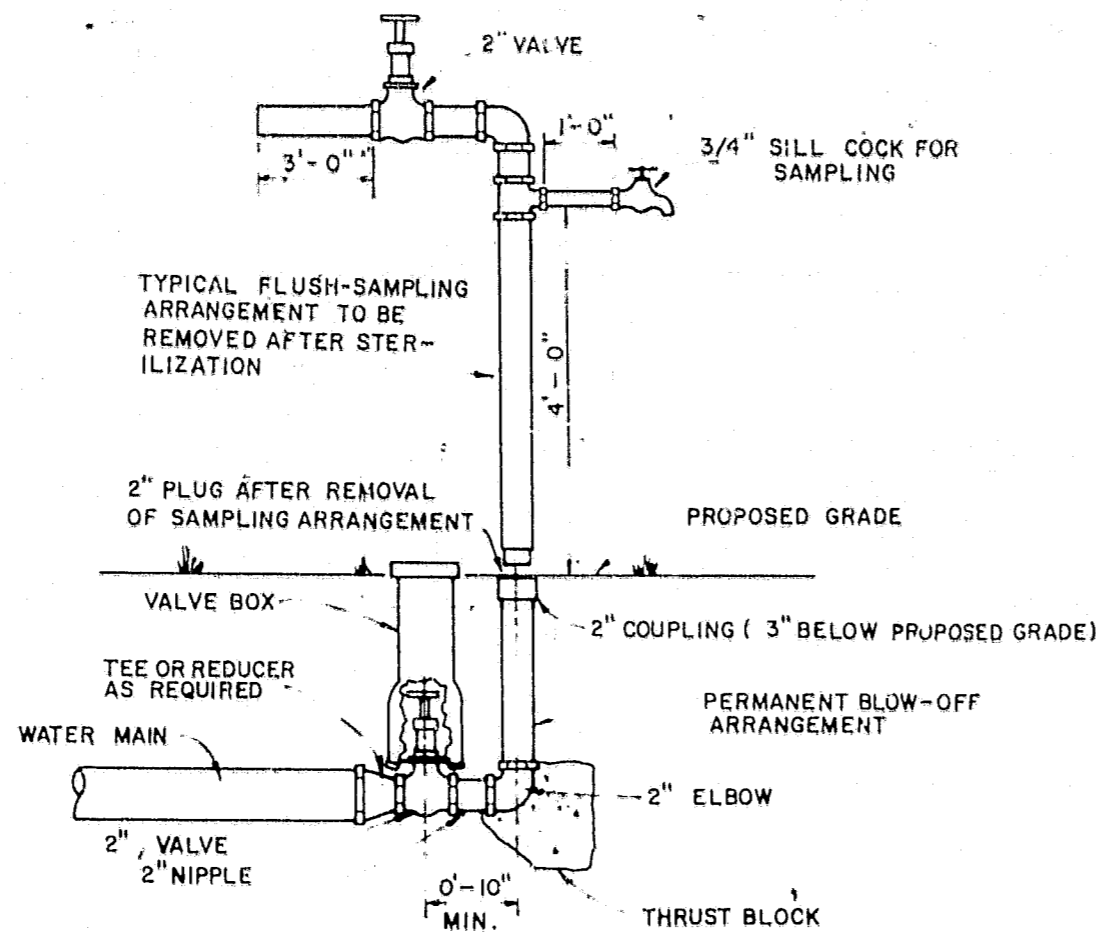
NO.	DATE	REVISION	APP'D BY
5			
4			
3			
2			
1			

JOB NO. 590-363.10  
DATE: SEPT. 14, 1984  
SHEET 19 OF 22

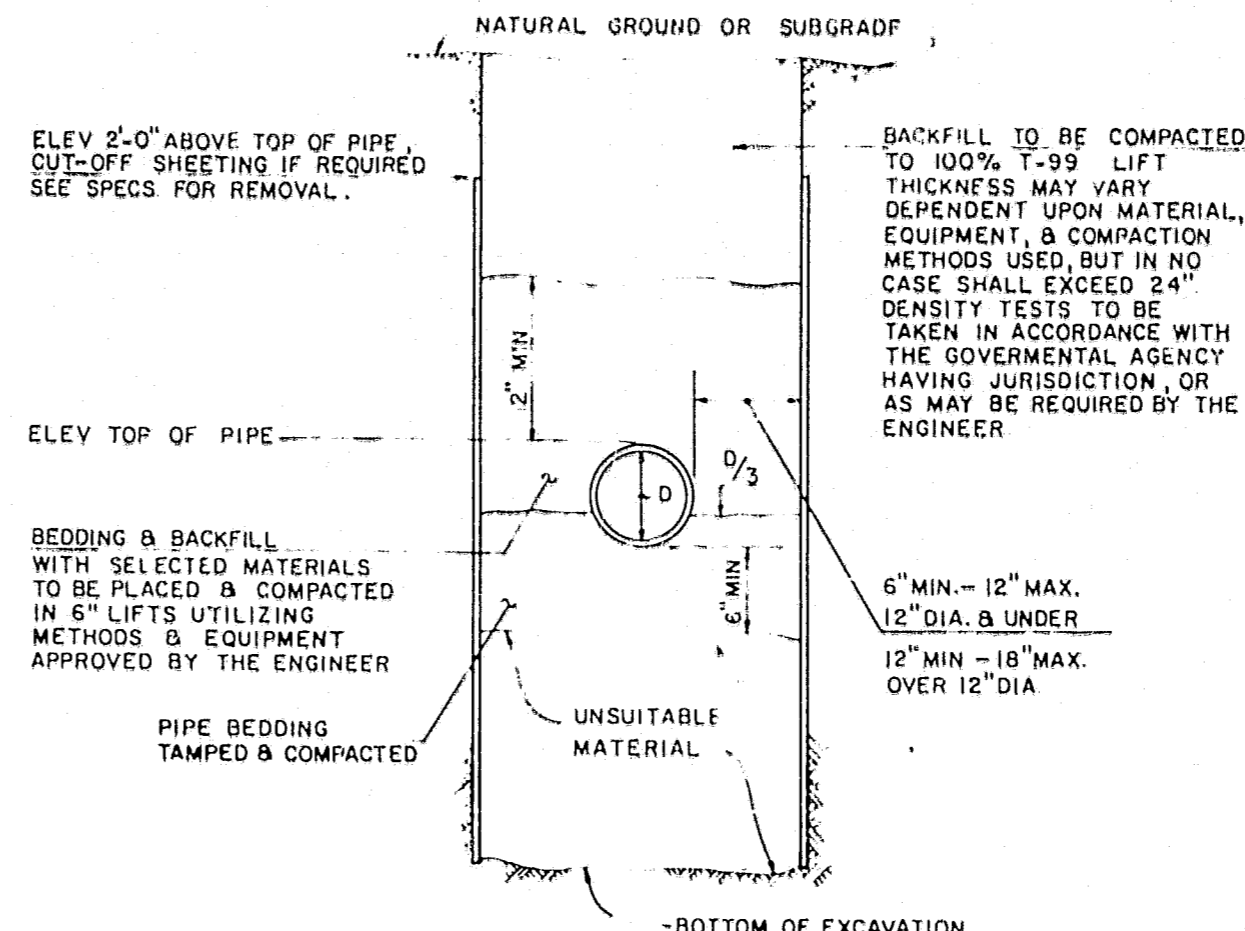
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



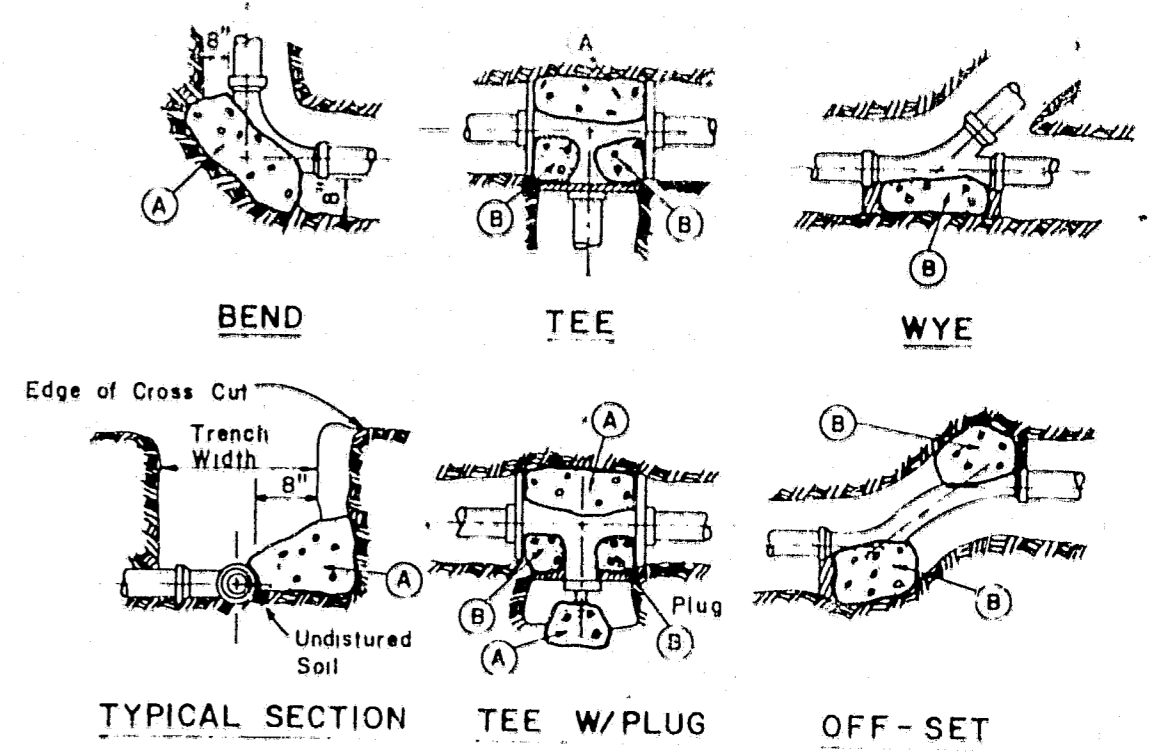
VALVE BOX DETAIL



PERMANENT BLOW-OFF ASSEMBLY



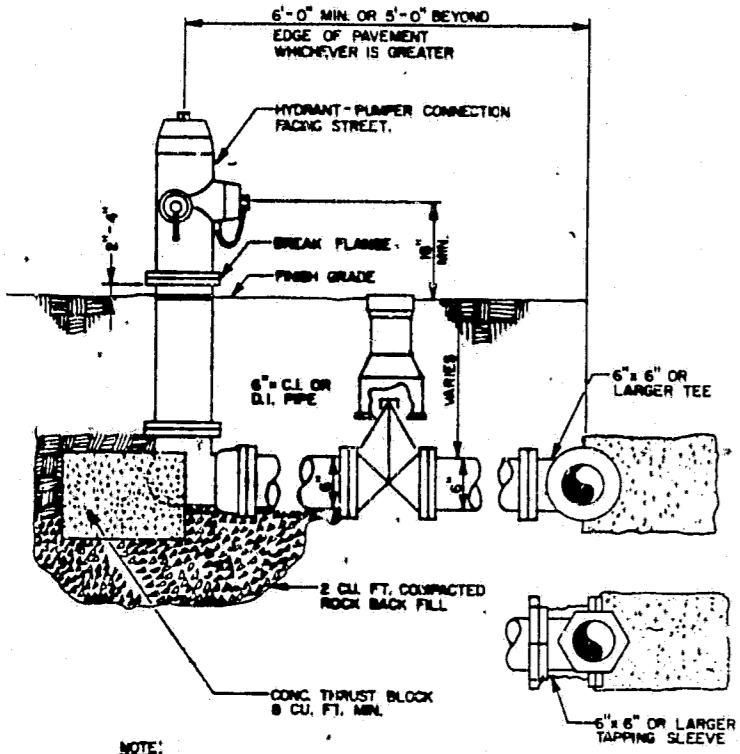
TYPICAL TRENCH SECTION



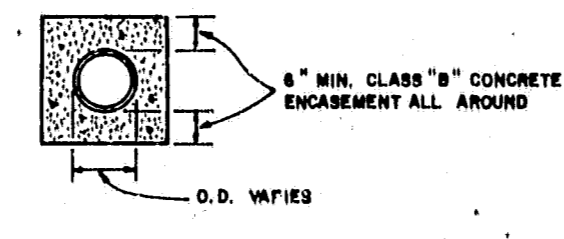
- Notes:
1. Pour thrust blocks against undisturbed material where trench wall has been disturbed, excavate loose material and extend thrust blocks to undisturbed material.
  2. On bends and tees, extend thrust blocks full length.
  3. Place board in front of all plugs before pouring thrust blocks.
  4. In backfilling, any muck encountered shall be removed and replaced with acceptable material.
  5. No coupling or joints shall be covered with concrete.
  6. Sizes are based on 150 psi internal pressure and 2000 lbs/sq ft soil bearing.
  7. Concrete shall be class "B".

SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL

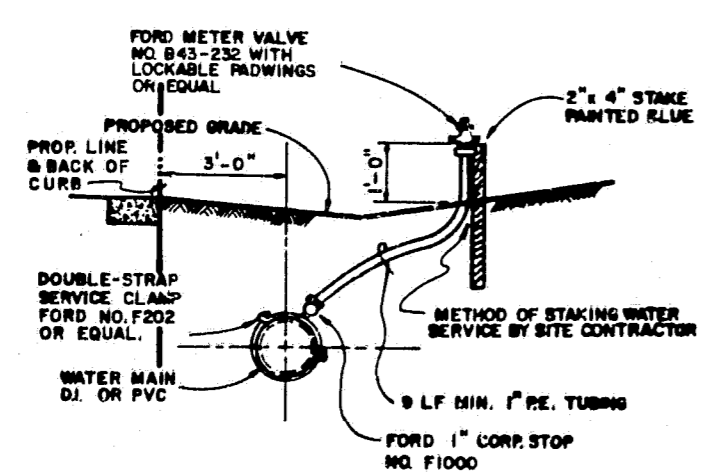
PIPE SIZE	4"	6"	8"	10"	12"	14"	16"	20"
MARK (A)	15	3	6	9	12	16	20	22
MARK (B)	1	2	4	5	8	10	12	15



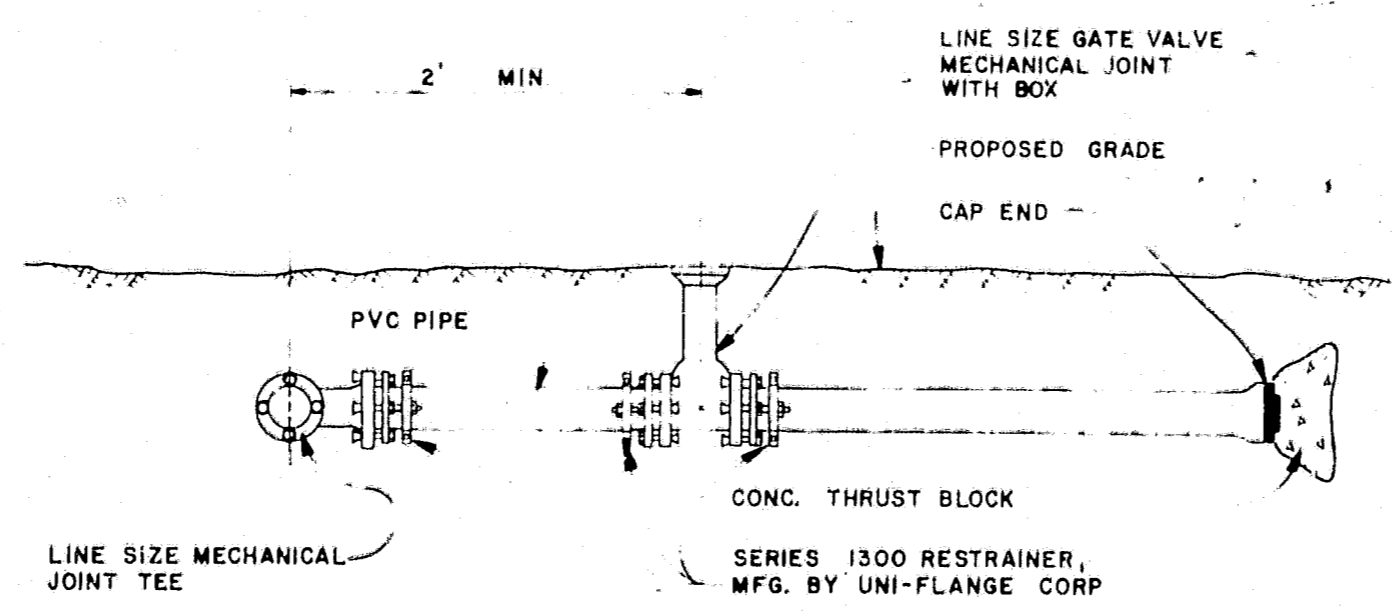
FIRE HYDRANT DETAIL



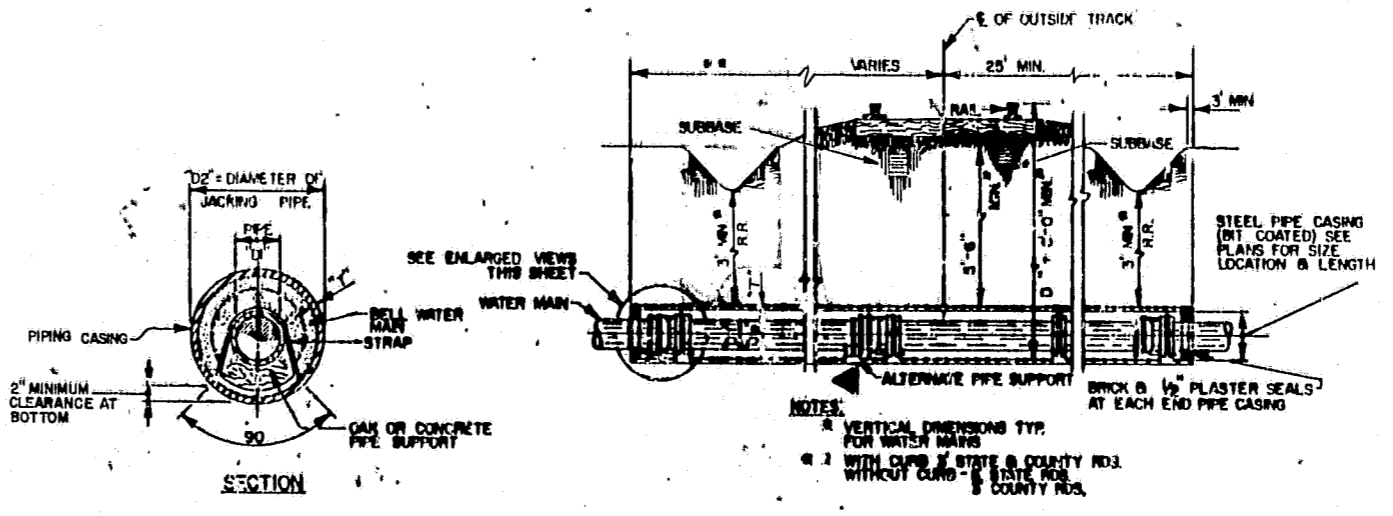
CONCRETE ENCASUREMENT



SINGLE SERVICE PROFILE



RESTRAINED JOINT DETAIL

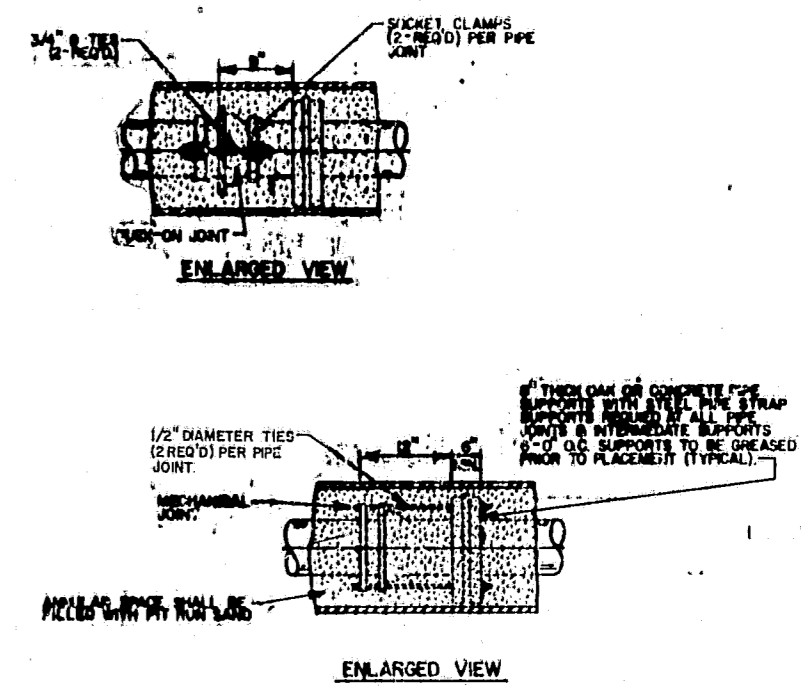


CASING DETAIL

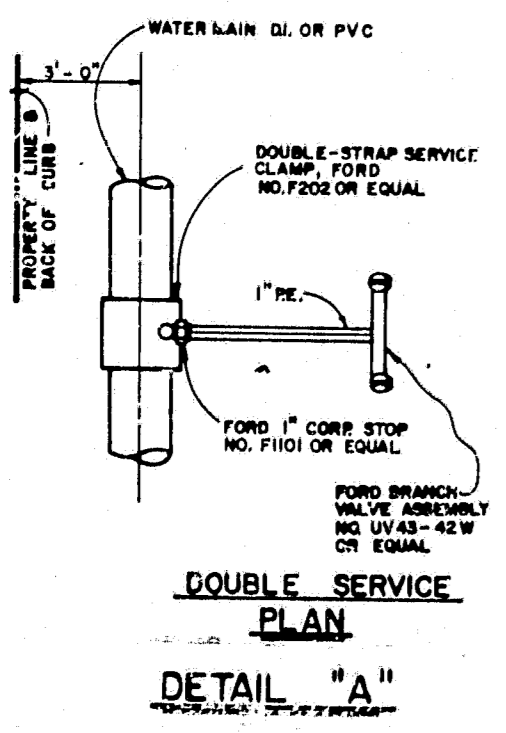
WATER MAIN & JOINTING PIPE SIZES (IN)

CL. (DI) - M.J.	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
CL. (DI) - P.O.	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
PVC (DI)	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
STEEL CASING PIPE (DI)	4"	10"	14"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"
WALL THICKNESS (I)	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

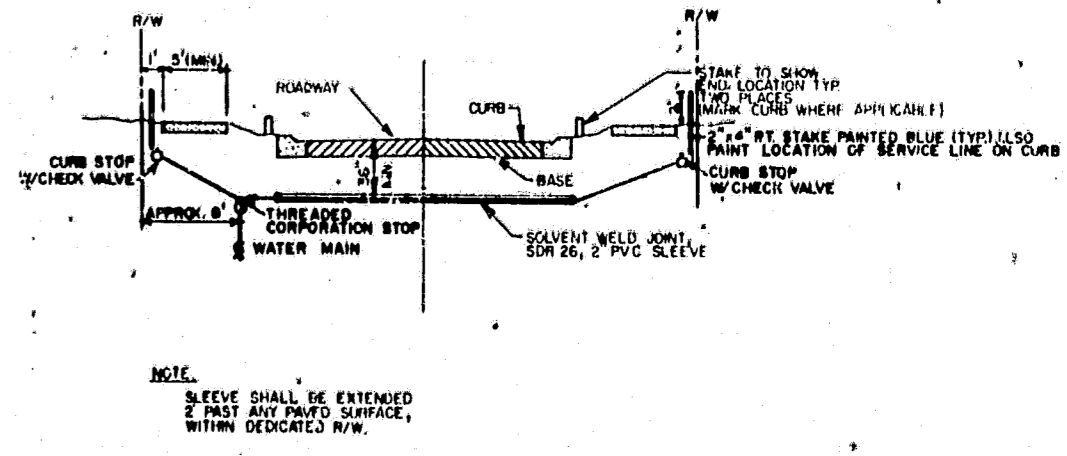
TYPICAL WATER MAIN, FORCE MAIN, & GRAVITY SEWER CROSSING DETAIL



THRUST BLOCK



DOUBLE SERVICE PLAN  
DETAIL "A"



ROAD CROSSING FOR WATER SERVICES

DESIGN \_\_\_\_\_  
DRAWN STD.  
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

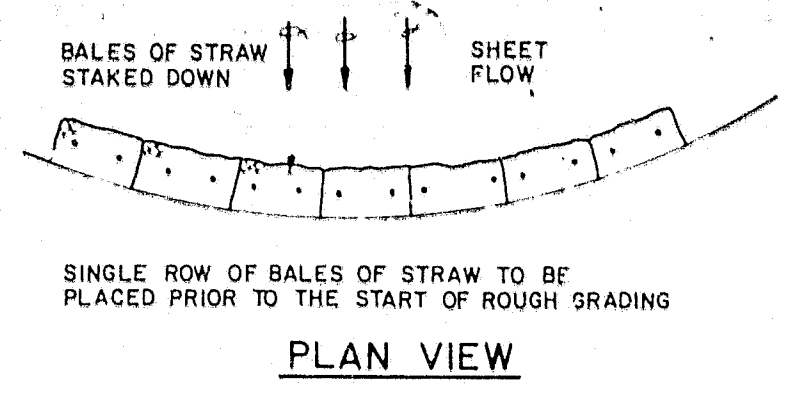
**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER FLA. 33515

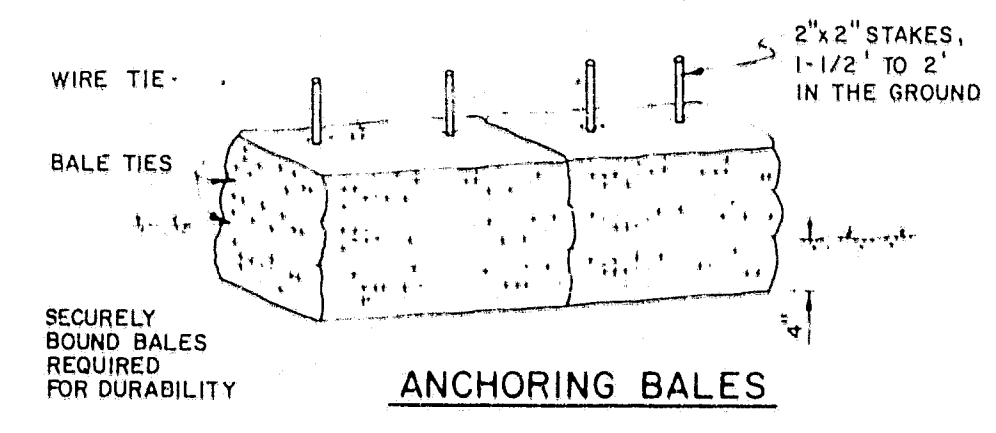
WATER SUPPLY SYSTEM  
STANDARD DETAILS

5				JOB NO. 590-393.10
4				P. B. NO.
3				DATE SEPT. 1, 1984
2				NO. DATE REVISION APP'D BY
1				
NO DATE				

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.

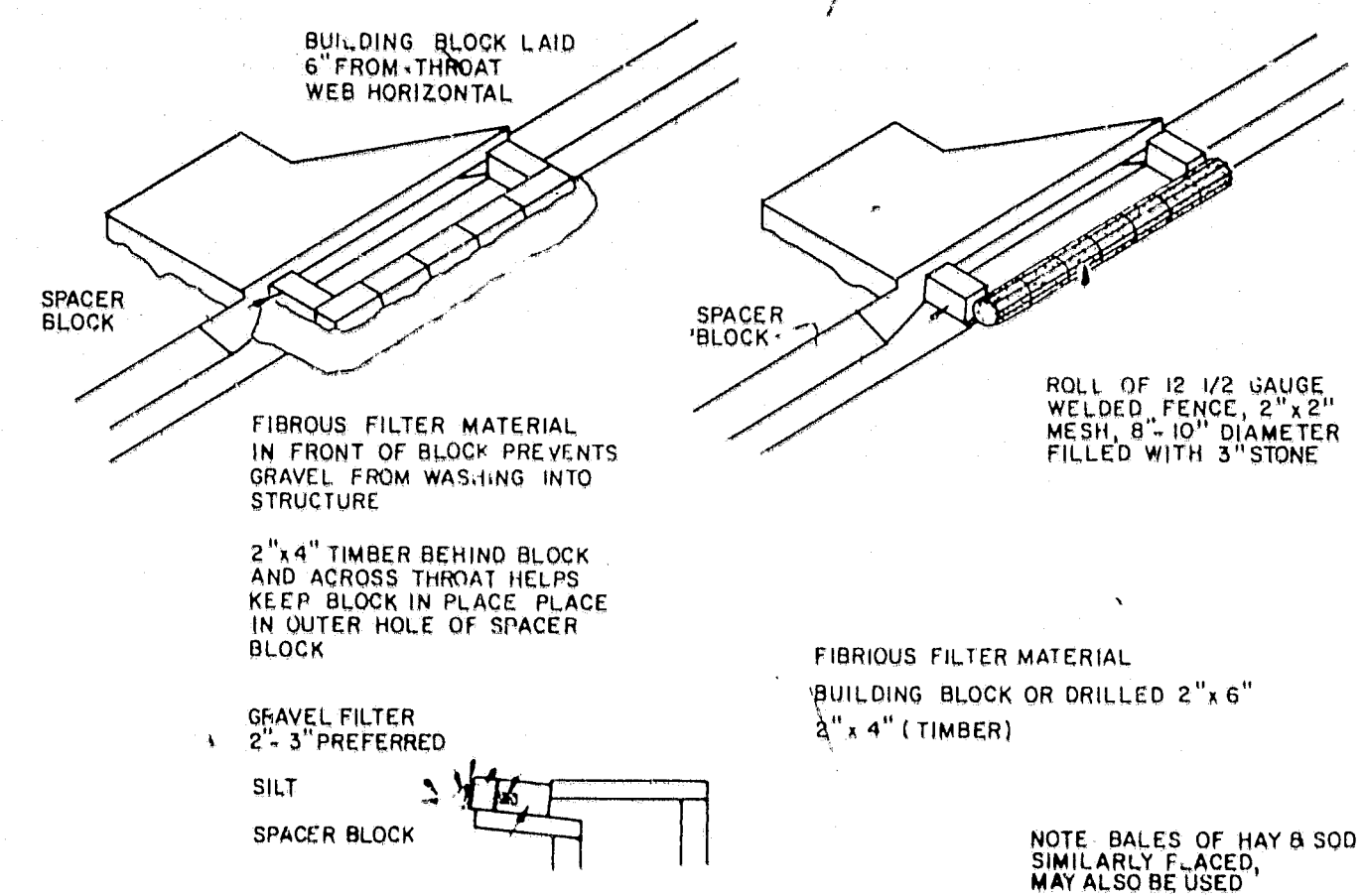


PLAN VIEW

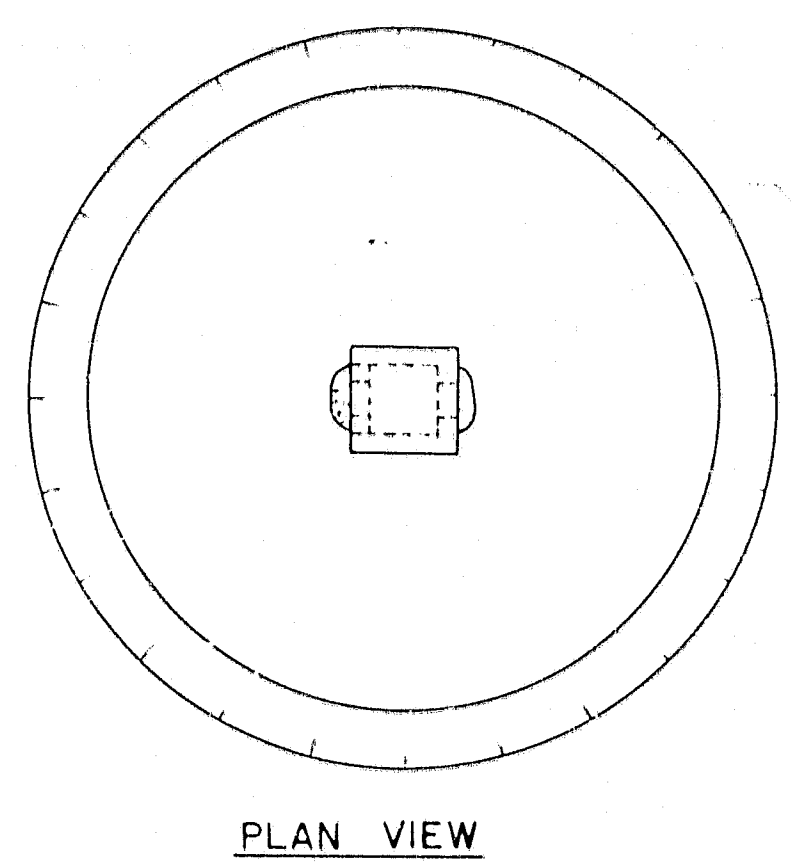


ANCHORING BALES

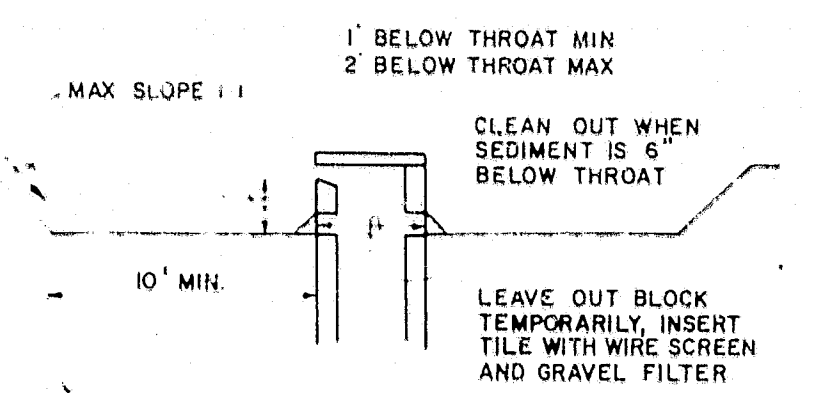
**TEMPORARY STRAW BALE SEDIMENT BARRIER**  
C-35



**TEMPORARY SEDIMENT TRAP AT CURB INLET**  
C-16

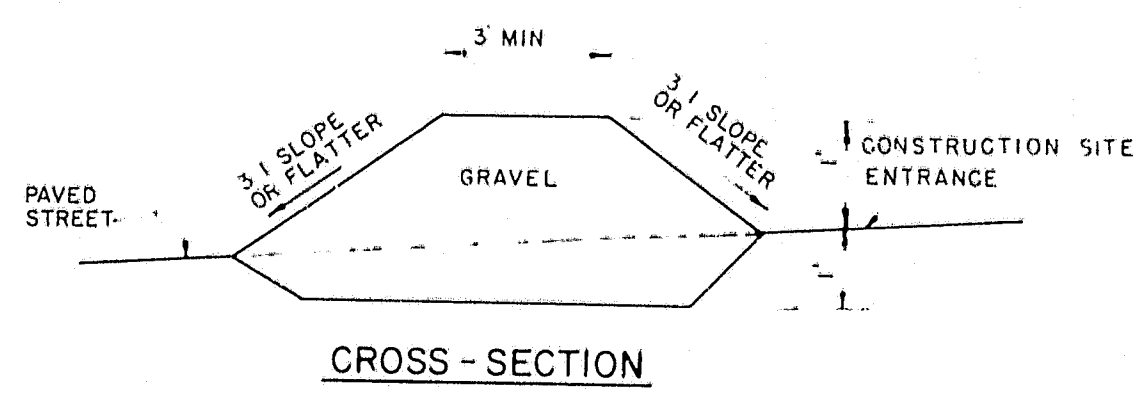


PLAN VIEW

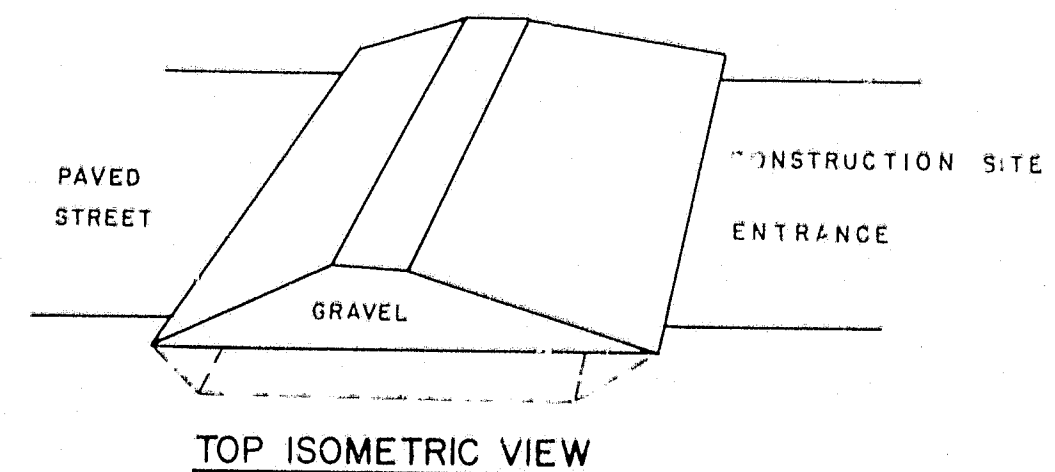


CROSS SECTION

**TEMPORARY SEDIMENT TRAP AT STORM DRAIN INLET**  
C-17

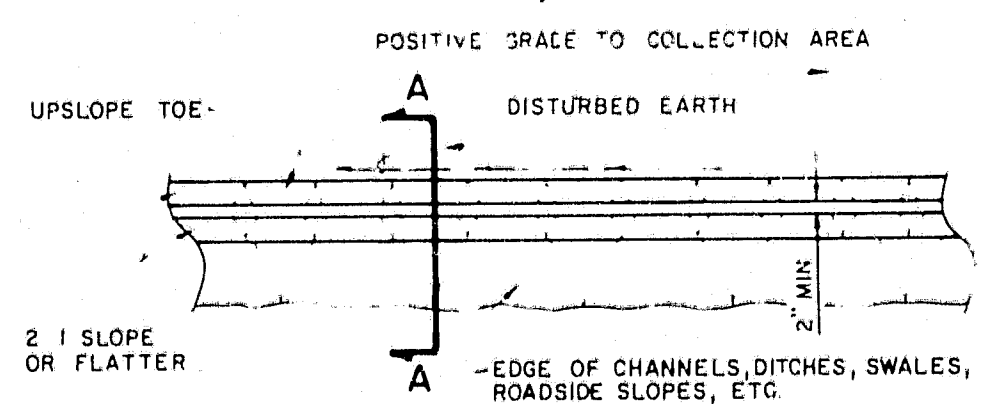


CROSS-SECTION

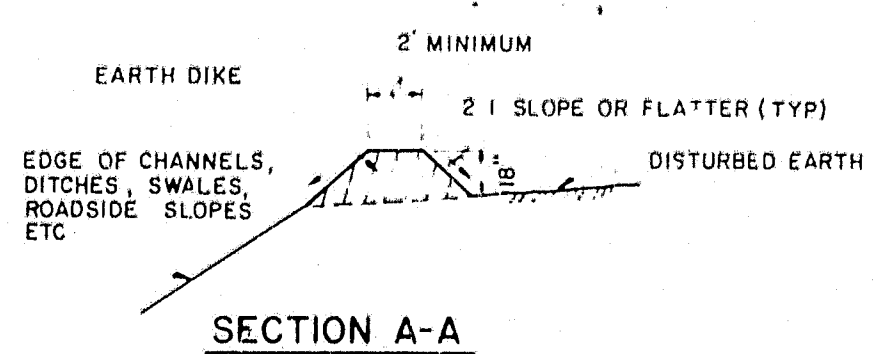


TOP ISOMETRIC VIEW

**TEMPORARY EROSION CONTROL GRAVEL INTERCEPTOR BERM**  
C-38 3-23-84



PLAN VIEW



SECTION A-A

**TEMPORARY EROSION CONTROL DIVERSION BERM**  
C-39 3-23-84

DESIGN: \_\_\_\_\_  
DRAWN: STD.  
CHECKED: \_\_\_\_\_  
D.C.

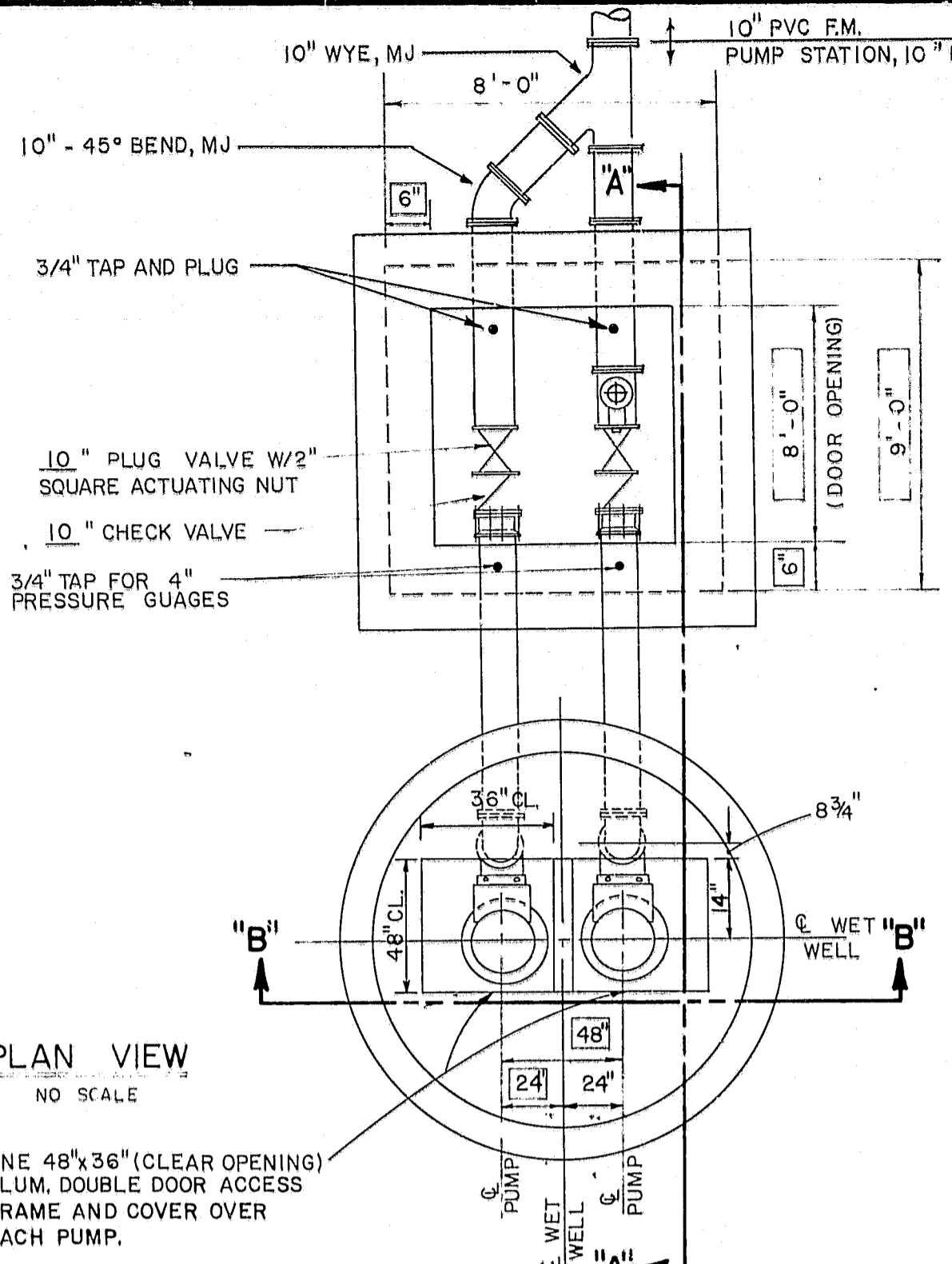
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**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER FLA. 33515

EROSION AND SILTATION  
CONTROL DETAILS

NO.	DATE	REVISION	APPD BY	JOB NO. 590-963.10
1				DATE SEPT. 14, 1984
2				
3				
4				

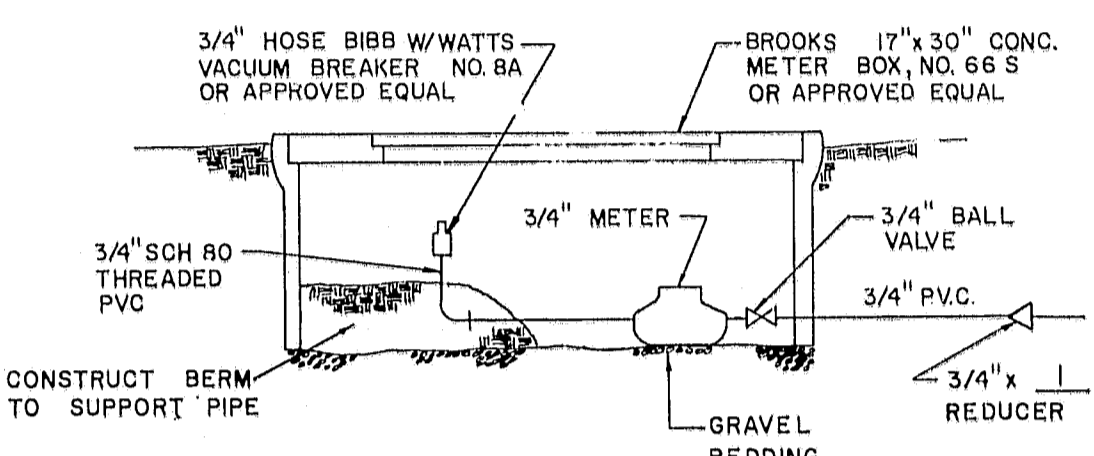
"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.



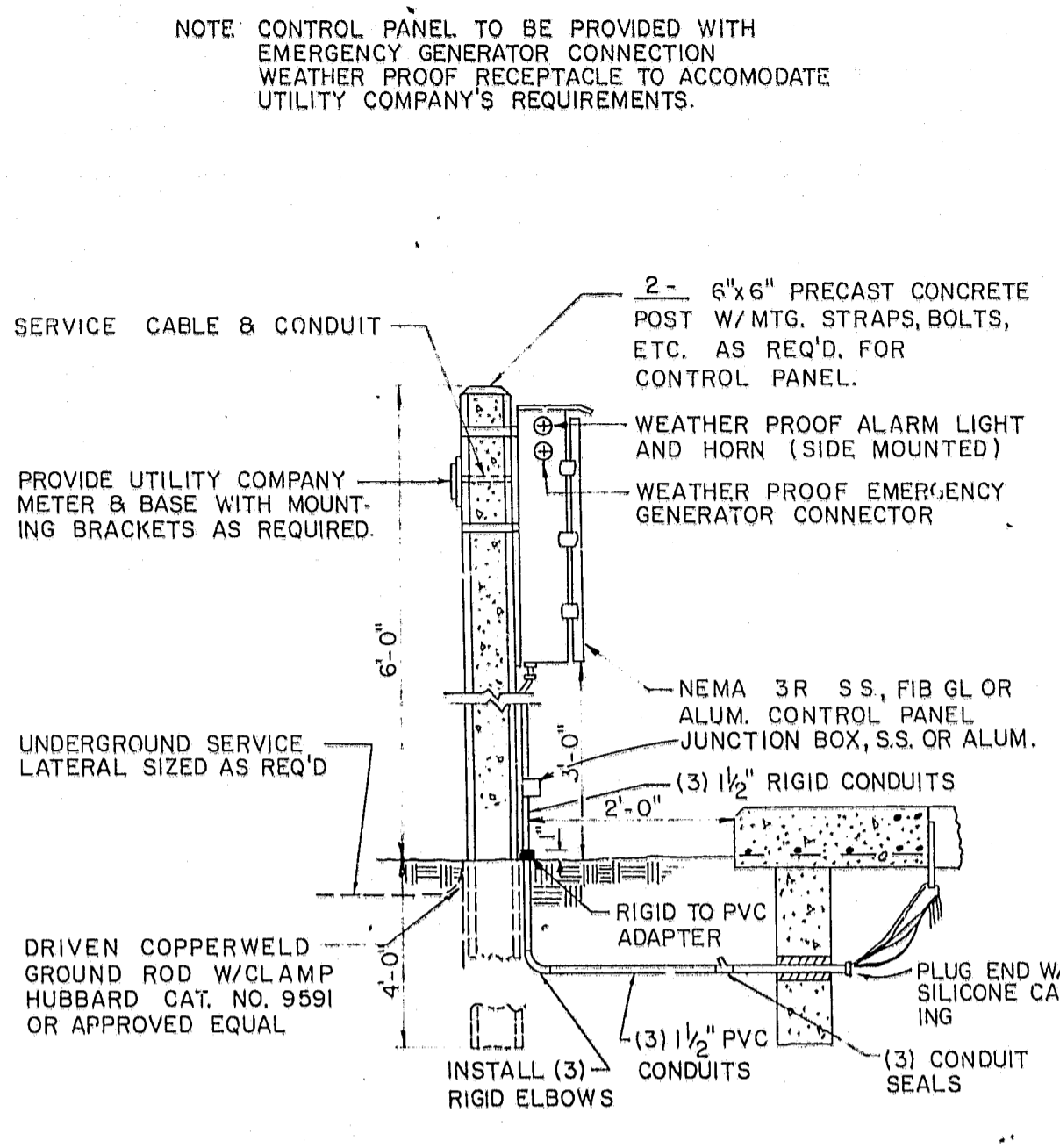
PLAN VIEW  
NO SCALE

ONE 48"x36" (CLEAR OPENING) ALUM. DOUBLE DOOR ACCESS FRAME AND COVER OVER EACH PUMP.

CONSTRUCTION LIMITS FOR BID ITEMS

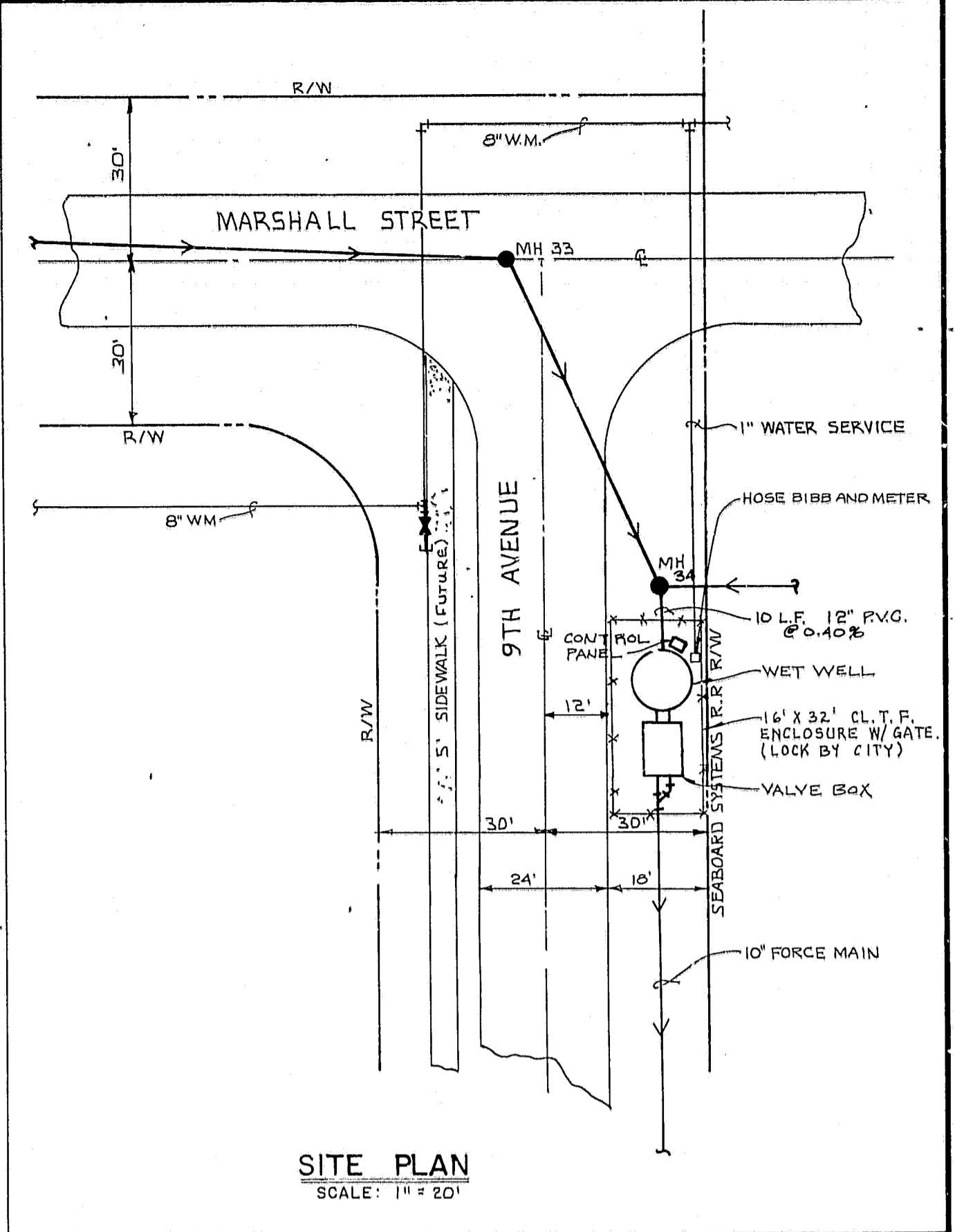


HOSE BIBB & METER DETAIL  
NO SCALE

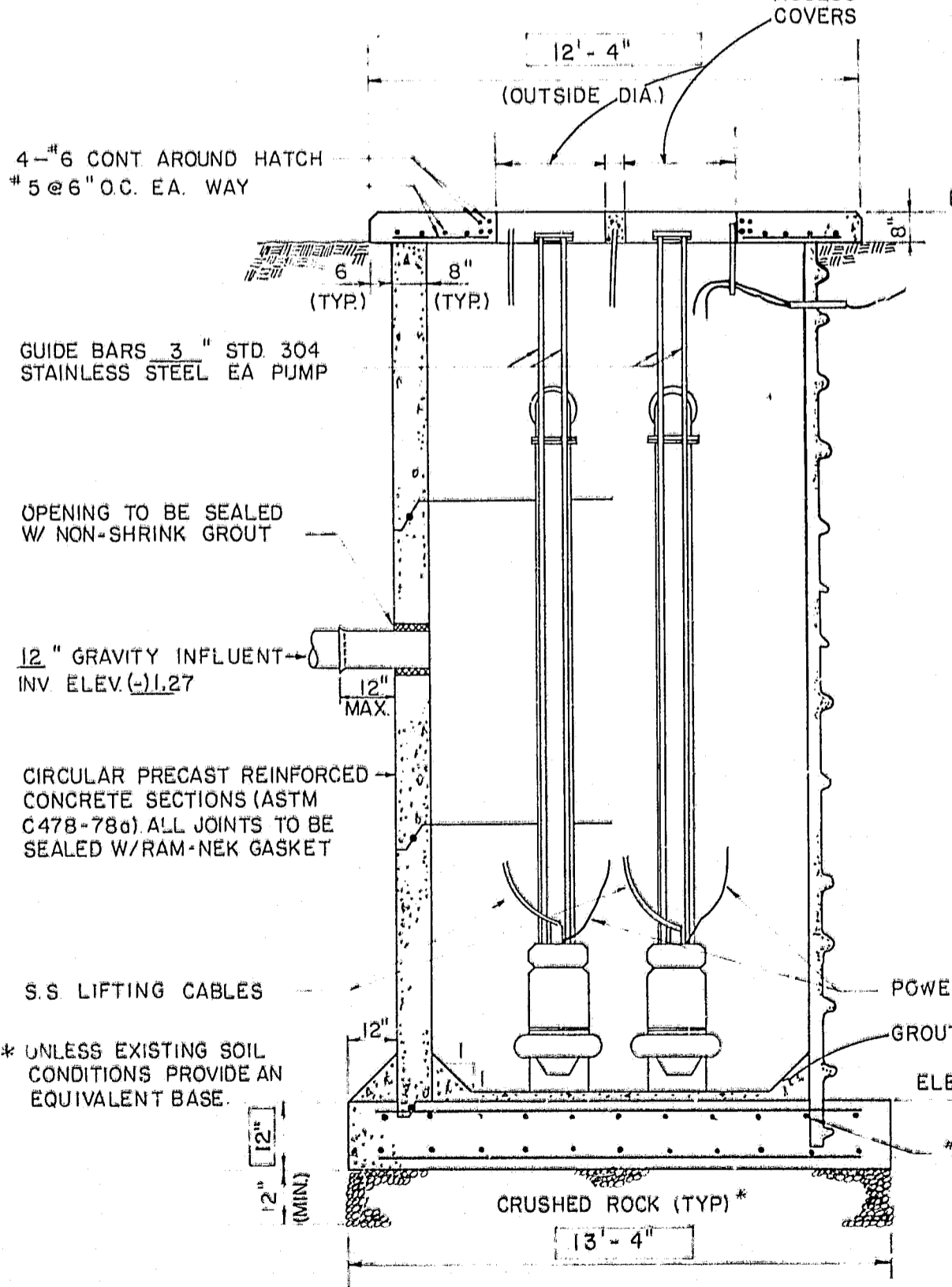


CONTROL PANEL DETAIL  
NO SCALE

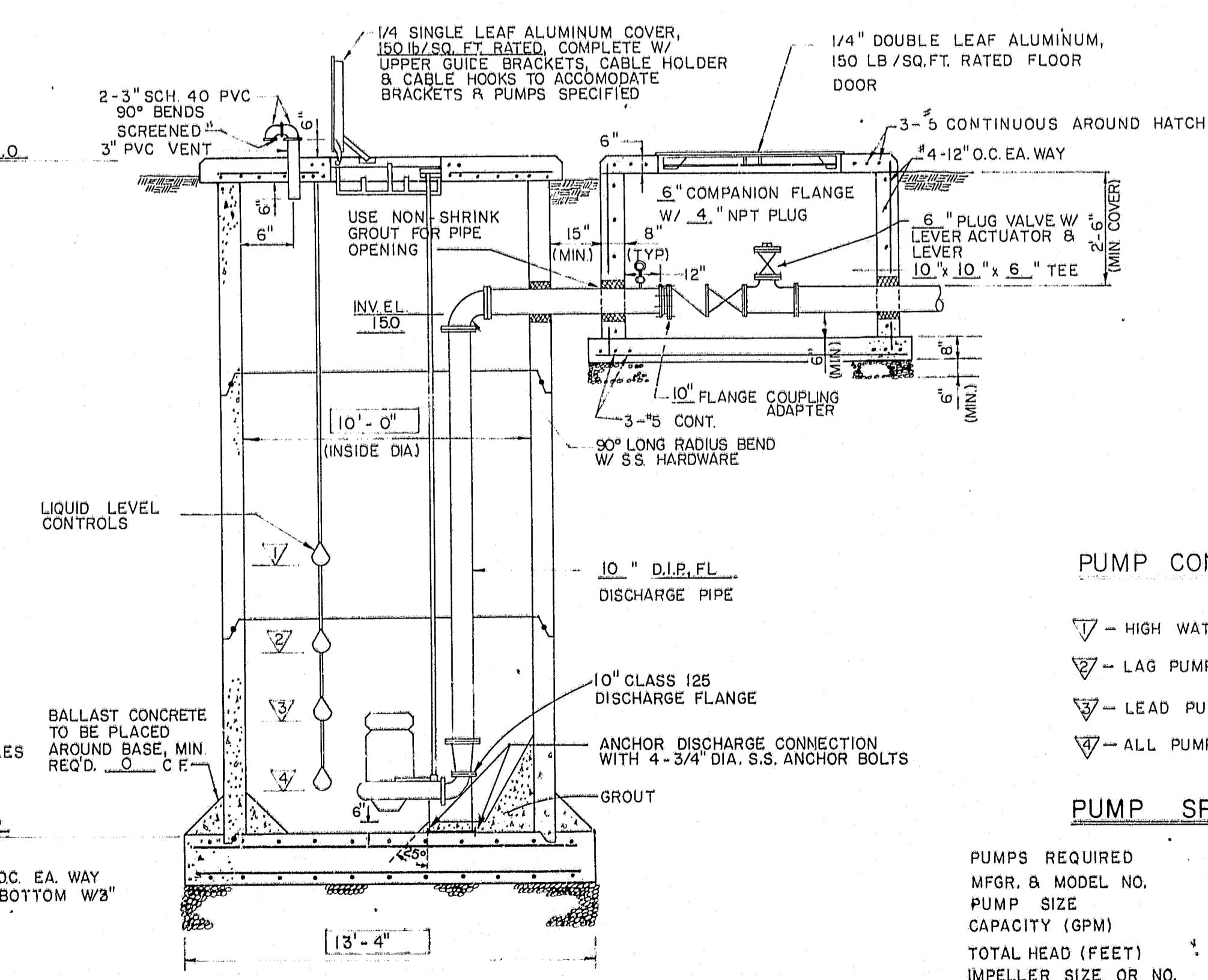
NOTE: CONTROL PANEL TO BE PROVIDED WITH EMERGENCY GENERATOR CONNECTION WEATHER PROOF RECEPTACLE TO ACCOMMODATE UTILITY COMPANY'S REQUIREMENTS.



SITE PLAN  
SCALE: 1" = 20'



SECTION "B-B"  
NO SCALE



SECTION "A-A"  
NO SCALE

PUMP CONTROL LEVELS

- ▽ - HIGH WATER ALARM ELEV. (-)1.0
- ▽ - LAG PUMP ON ELEV. (-)1.5
- ▽ - LEAD PUMP ON ELEV. (-)2.0
- ▽ - ALL PUMPS OFF ELEV. (-)4.0

PUMP SPECIFICATIONS

PUMPS REQUIRED	2
MFGR. & MODEL NO.	FLYGT 10" CP-3201
PUMP SIZE	10" DISCHARGE
CAPACITY (GPM)	1850 GPM
TOTAL HEAD (FEET)	35.7 FT.
IMPELLER SIZE OR NO.	638
MOTOR H.P. REQUIRED	35 H.P.
SPEED (R.P.M.)	1170 R.P.M.
ELECTRICAL SERVICE	240 VOLTS, 3 PHASE, 60 HERTZ

PROJECT DESIGN FLOWS

DESIGN FLOW (GPM)	1200
DESIGN TOTAL HEAD (FEET)	16
SECONDARY DESIGN TOTAL HEAD (FEET)	36

GENERAL NOTES:

1. ALL INTERIOR AND EXTERIOR SURFACES OF THE CONCRETE WET WELL SHALL BE PAINTED WITH TWO (2) COATS PROCO EP-214 COATING OR APPROVED EQUAL.
2. CONTRACTOR SHALL PROVIDE NECESSARY DEWATERING TO AVOID FLOATATION DURING CONSTRUCTION.
3. SEE SPECIFICATIONS FOR PUMP AND CONTROL PANEL DETAILS.
4. ANY ACCESSORY ITEMS WITHIN WET WELL SHALL BE DUCTILE IRON, PVC OR STAINLESS STEEL.
5. PROVIDE 1" CHAMFER, ALL EXPOSED CONCRETE.
6. THE CONTRACTOR SHALL NOTIFY THE POWER COMPANY WHEN WORK IS STARTED.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES FOR CONSTRUCTION AND MAINTENANCE, AND SHALL VERIFY WITH THE RESPECTIVE MANUFACTURERS THE INSTALLATION AND ORIENTATION OF ALL EQUIPMENT.
8. INSTALLATION OF COVER, PUMP ANCHOR BOLTS, GUIDE RAILS, ETC. MUST BE COORDINATED. SEE MANUFACTURER'S RECOMMENDED DETAILS AND SPECIFICATIONS.
9. CHECK VALVES SHALL BE HORIZONTAL SWING, WEIGHT AND LEVER TYPE, BRONZE MOUNTED WITH BRONZE FACE DISC ON IRON BODY.
10. PLUG VALVES SHALL BE NON-LUBRICATED, ECCENTRIC TYPE, ONE-QUARTER TURN TO FULL OPENING WITH NEOPRENE COATED OPENING, ON NICKEL IRON BODY. EACH VALVE SHALL BE FURNISHED WITH WRENCH FOR OPERATION.
11. PUMP STATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF THE CITY OF SAFETY HARBOR.
12. PADLOCKS FOR ALL HASPS TO BE PROVIDED AND KEYED TO CITY MASTER KEY FOR PUMPING STATIONS.

DESIGN: \_\_\_\_\_  
DRAWN: RGS/STD.  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_

**Post, Buckley, Schuh & Jernigan, Inc.**  
CONSULTING ENGINEERS and PLANNERS

**HUNTINGTON TRAILS**  
FOR: COMMUNITY CONCEPT GROUP  
CLEARWATER, FLORIDA 33515

**WASTEWATER PUMP STATION**

5				JOB NO. 590-363.18
4				FB NO.
3				DATE SEPT. 1, 1984
2	4-3-85	REV. PUMP STA. LOCATION		SCALE NONE
1	12-20-84	REV. P.S. - NEW DESIGN FLOW 1200 GPM		SHT 22 OF 22
NO.	DATE	REVISION	APP'D BY	

"RECORD DRAWINGS" SHOWING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS. SOME OF THE INFORMATION WAS SUPPLIED BY THE CONTRACTOR.