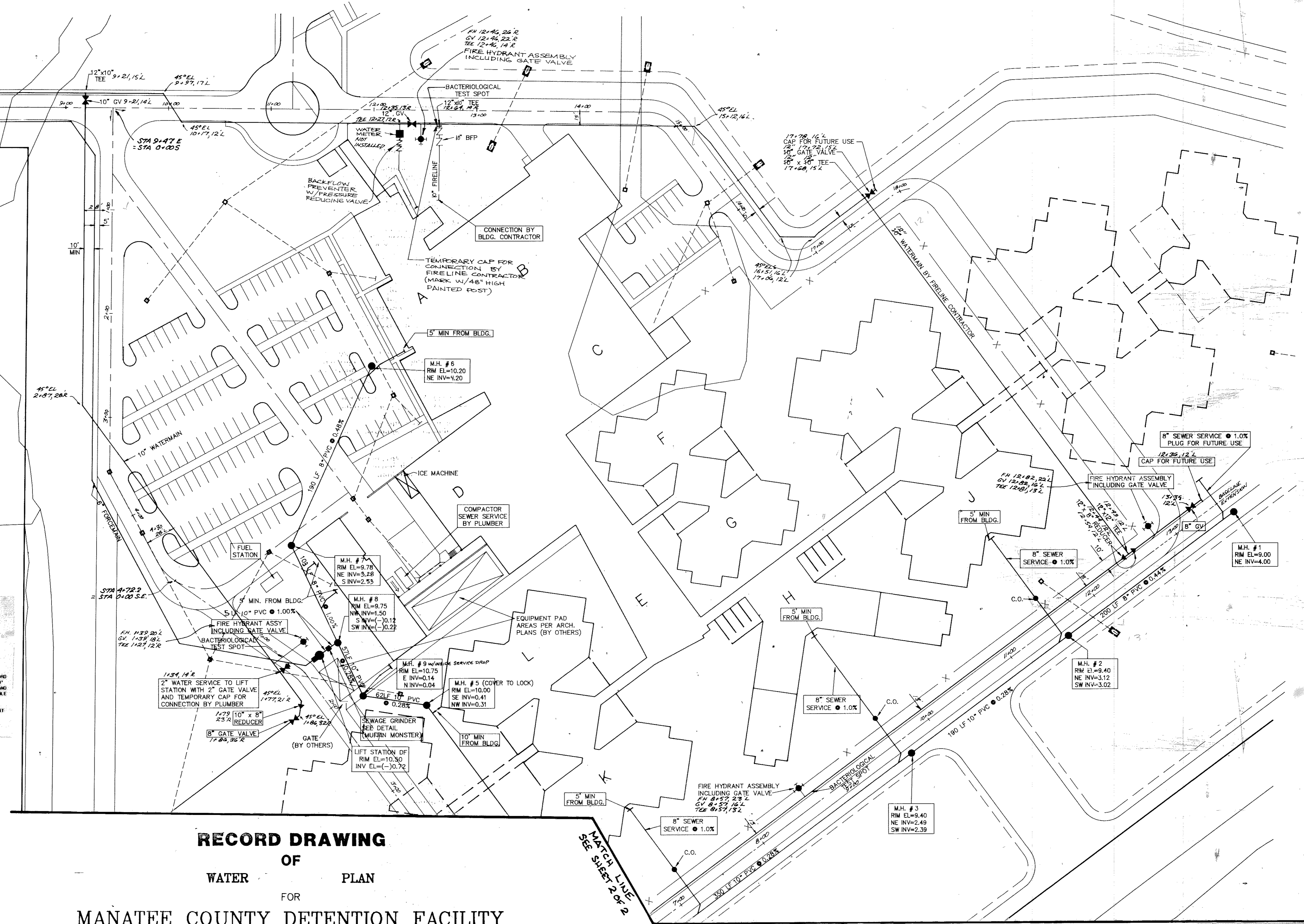


SEE SHEET 2 OF 2
MATCH LINE



- RECORD DRAWING NOTES:**
1. THIS RECORD DRAWING INCLUDES LOCATIONS DERIVED FROM INFORMATION SUPPLIED BY THE CONTRACTOR OF RECORD IN ADDITION TO THOSE FEATURES DIRECTLY FIELD BY P.M.S. FIELD CREW. TO THE BEST OF OUR KNOWLEDGE AND WITHIN NORMALLY ACCEPTED LIMITS, THIS INFORMATION ACCURATELY REFLECTS CONDITIONS IN THE FIELD.
 2. EXCEPT WHERE SHOWN, ALL WATERMAIN AND FORCEMAIN BENDS HAVE BEEN ATTAINED BY THE USE OF ELBOWS SMALLER THAN 45° OR BY PIPE DEFLECTION.
 3. DURING CONSTRUCTION OF THE SYSTEMS SHOWN ON THESE RECORD DRAWINGS A MINIMUM SEPARATION OF 18" VERTICALLY AND 10" HORIZONTALLY HAS BEEN MAINTAINED BETWEEN WATER MAINS AND SANITARY MAINS, UNLESS THIS SEPARATION WAS NOT FEASIBLE. SANITARY MAINS WERE CONCRETE ENCASED.
 4. MANHOLE RIMS MAY BE ADJUSTED TO MATCH FINISHED PAVEMENT GRADERS.
 5. AS-BUILT INFORMATION IS SHOWN IN SLANT LETTERING.



**RECORD DRAWING
OF
WATER PLAN
FOR
MANATEE COUNTY DETENTION FACILITY**

LOCATED
SEC. 6, TWP. 33 S., RGE. 18 E.
MANATEE COUNTY, FLORIDA.

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. I FURTHER STATE THAT THIS RECORD DRAWING WAS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34207
RICHARD P. CLARKE P.E. 116377
DATE OF CERTIFICATION:

SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERSEDED UPON THE DESIGN CONSTRUCTION PLANS, IS TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVABLE IMPROVEMENTS, IN TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34207
JAMES D. GIBBER, PLS 95189
DATE OF FIELD WORK: 6-29-93 DATE OF CERTIFICATION:

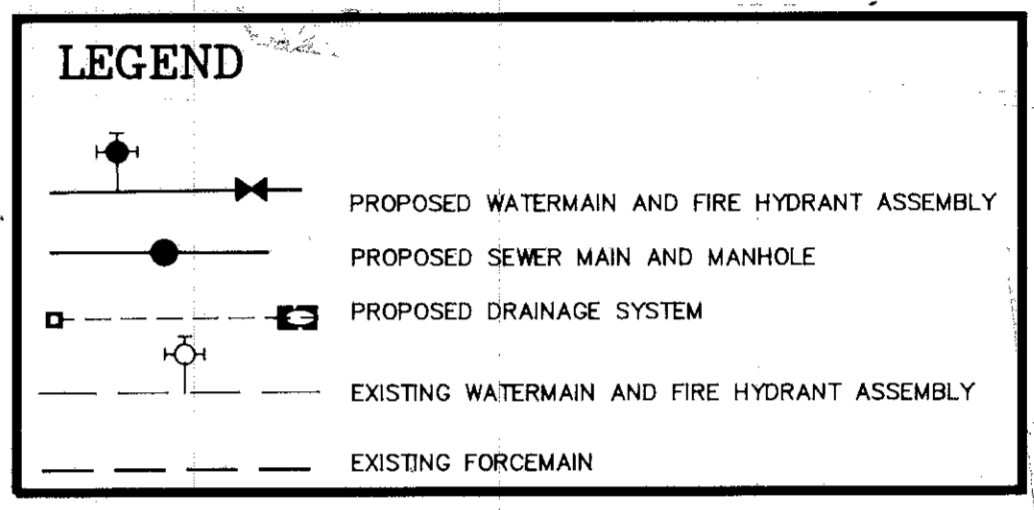
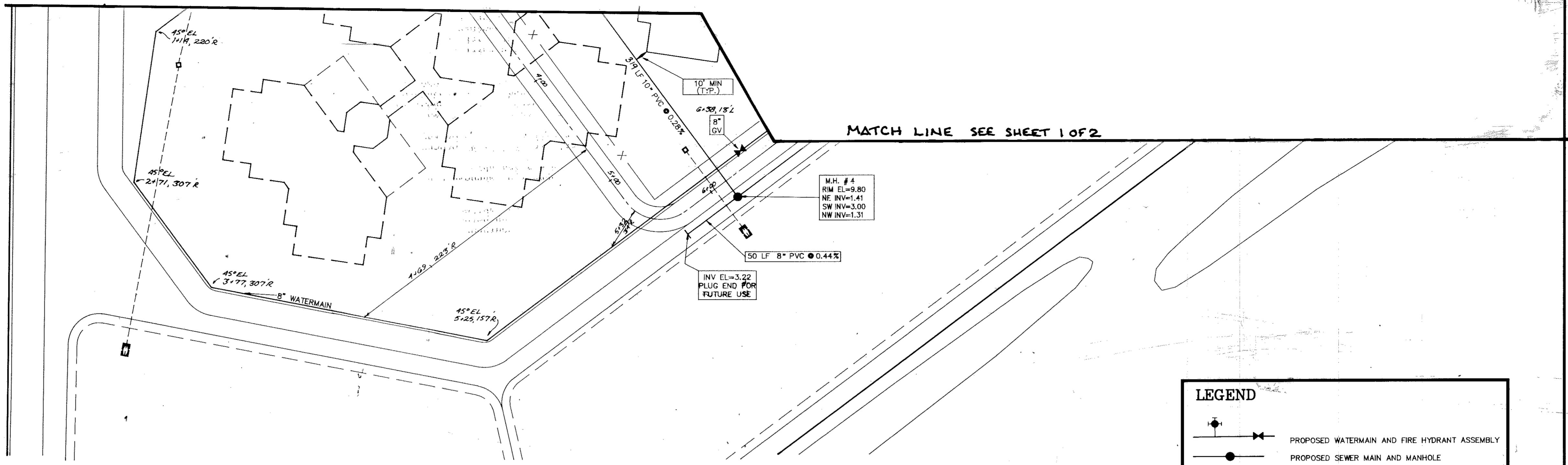
REVISIONS	
1	
2	
3	
4	
5	
6	
7	

Zoller, Najjar & Shroyer, Inc.
Engineers, Planners, Surveyors & Landscape Architects

201 SW AVENUE DRIVE EAST
POST OFFICE BOX 9448
BRADENTON FLORIDA 33506
TELEPHONE 813-748-9386

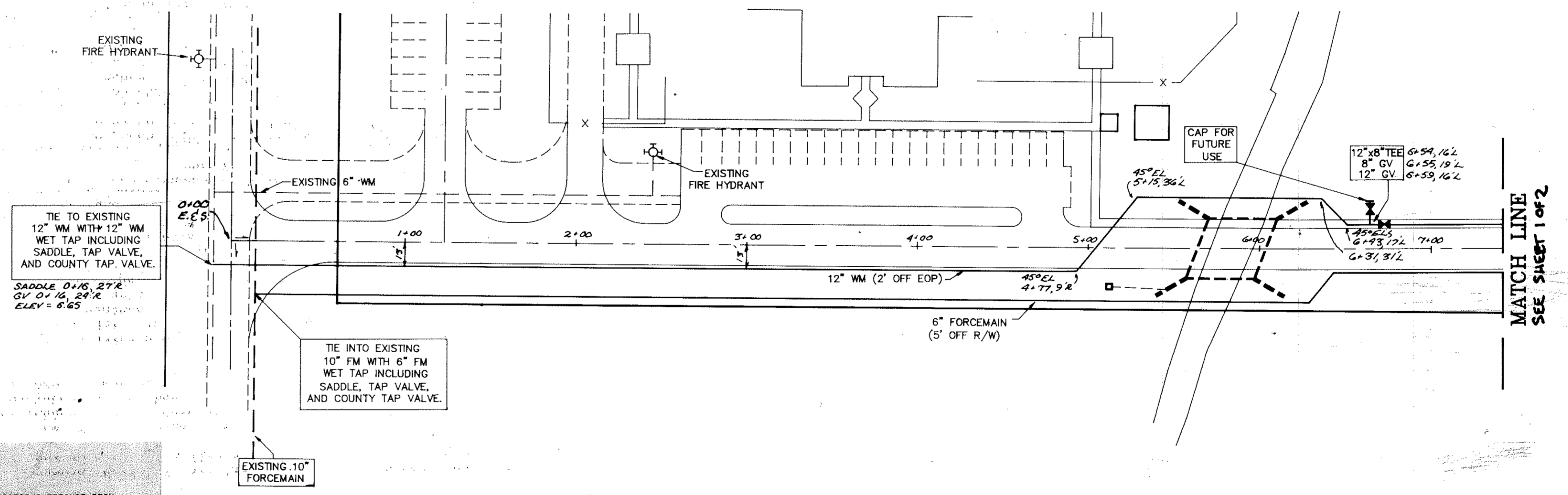
DESIGNED _____ CHECKED JDB DATE 8-6-93 SCALE 1"=50'
DRAWN TRP COMP TR JOB NO. 00-14451 FILE NO. _____ SHEET 1 OF 2

T16



NOTE:
SANITARY SEWER CLEANOUTS, COVERS WITHIN SECURITY FENCE, TO BE BOLTED TO RINGS. MANHOLE #5 TO HAVE LOCKING COVER PER DETAIL ON DETAIL SHEET.

- UTILITY CONSTRUCTION NOTES:
1. ALL CONSTRUCTION TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS. PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT, PUBLIC WORKS DEPARTMENT MINIMUM TECHNICAL STANDARDS (REV. #3), AND FDER. THE CONTRACTOR SHALL PROGRESS SAID DRAWINGS THROUGH MANATEE COUNTY PLANNING, PERMITTING AND INSPECTIONS DEPARTMENT (MCPPI) AND UPON COMPLETION SHALL PROVIDE A REPRODUCIBLE MYLAR AND TWO SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, TO THE ARCHITECT AND ENGINEER.
 - IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
 3. ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST REVISIONS 12/11/91 AND TO MEET ENGINEER'S SPECIFICATIONS. ALL PROPOSED CONSTRUCTION IS TO BE PRIVATELY OWNED AND OPERATED.
 4. THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL FP&L, GTE AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
 5. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES ARE CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY STREET CONSTRUCTION.
 6. ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
 7. WATERMAIN TO BE CLASS C-900, SDR 18 AND MAINTAIN A MINIMUM 36" COVER.
 8. ALL UTILITIES SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY "CANDY", MCPWD AND FP&L 48 HOURS MINIMUM PRIOR TO CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLAN.
 9. CONTRACTOR IS TO OBTAIN RIGHT-OF-WAY USE PERMIT PRIOR TO ANY OFF-SITE CONSTRUCTION.
 10. FORCEMAIN TO BE C-900 DR 18, MAINTAIN A MINIMUM OF 36" COVER.
 11. CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL UTILITY SERVICE LINES AND CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS PRIOR TO CONSTRUCTION.
 12. FIREMAIN PRESSURE PIPING TO BE C-900 DR 14.
 13. ALL REFERENCES TO ARCHITECTURAL PLANS INCLUDES ELECTRICAL, MECHANICAL AND PLUMBING PLANS.
 14. ALL REFERENCES TO GENERAL CONTRACTOR SHALL MEAN "APPROPRIATE TRADE".



- RECORD DRAWING NOTES:
1. THIS RECORD DRAWING INCLUDES LOCATIONS DERIVED FROM INFORMATION SUPPLIED BY THE CONTRACTOR OF RECORD IN ADDITION TO THOSE FEATURES DIRECTLY VIEWED BY 2" W.S. FIELD CREWS, TO THE BEST OF OUR KNOWLEDGE AND WITHIN NORMALLY ACCEPTED LIMITS. THIS INFORMATION ACCURATELY REFLECTS CONDITIONS IN THE FIELD.
 2. EXCEPT WHERE SHOWN, ALL WATERMAIN AND FORCEMAIN BENDS HAVE BEEN ATTAINED BY THE USE OF ELBOWS SMALLER THAN 45° OR BY PIPE DEFLECTION.
 3. DURING CONSTRUCTION OF THE SYSTEMS SHOWN ON THESE RECORD DRAWINGS A MINIMUM SEPARATION OF 18" VERTICALLY AND 10" HORIZONTALLY HAS BEEN MAINTAINED BETWEEN WATER MAINS AND SANITARY MAINS. WHERE THIS SEPARATION WAS NOT OBTAINABLE SANITARY MAINS WERE CONCRETE ENCASED.
 4. MANHOLE RIMS MAY BE ADJUSTED TO MATCH FINISHED PAVEMENT GRADES.
 5. AS-BUILT INFORMATION IS SHOWN IN SLANT LETTERING.

RECORD DRAWING
OF
WATER PLAN

FOR
MANATEE COUNTY DETENTION FACILITY
LOCATED
SEC. 6, TWP. 33 S., RGE. 18 E.
MANATEE COUNTY, FLORIDA.

REVISIONS

1	APP. P.N. ASST. FILE	12/1/92
2	FILE DEPT.	
3	MOD. FUTURE CONST.	1/8/93
4	MOD. PER ARCH	2/17/93
5	MOD. V.I. 8. OF BLOCK BY MAN. L.S. WATER	
6	MOD. V.I. 8. OF BLOCK BY MAN. L.S. WATER	
7	MOD. V.I. 8. OF BLOCK BY MAN. L.S. WATER	

ENGINEER'S CERTIFICATE

I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. I FURTHER STATE THAT THIS RECORD DRAWING WAS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

ZOLLER, NAJJAR & SHROYER, INC.
P. O. BOX 3448
BRADENTON, FLORIDA 34106

RICHARD P. CLARKE P.E. #16377

DATE OF CERTIFICATION: 11/18/92

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, IS TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVABLE IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

ZOLLER, NAJJAR & SHROYER, INC.
P. O. BOX 3448
BRADENTON, FLORIDA 34106

JAMES D. GREER PLS #560

DATE OF FIELD WORK: 8-4-92 DATE OF CERTIFICATION: 8-29-92

C-4
00-12171
11/18/92

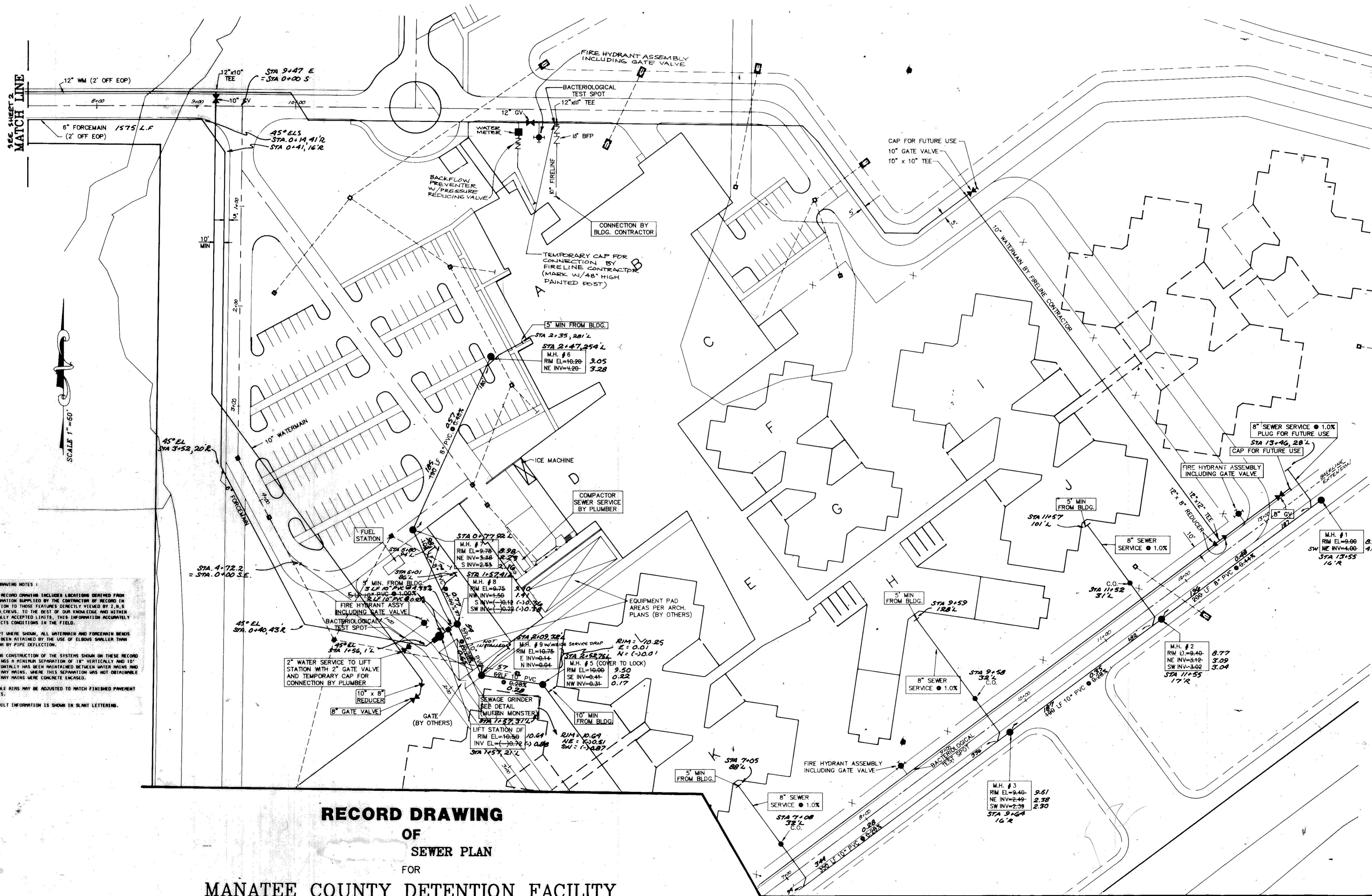
WATER AND SEWER PLAN
MANATEE COUNTY DETENTION FACILITY
LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

JERRY N. ZOLLER
914 14th STREET WEST
BRADENTON, FLORIDA

AIA, P.A.
BRADENTON, FLORIDA
ASSOCIATE ARCHITECT

ZOLLER, NAJJAR & SHROYER, INC.
201 5th AVENUE DRIVE EAST
BRADENTON, FLORIDA
CIVIL ENGINEER

T17



- RECORD DRAWING NOTES:**
1. THIS RECORD DRAWING INCLUDES LOCATIONS DERIVED FROM INFORMATION SUPPLIED BY THE CONTRACTOR OR RECORD IN ADDITION TO THOSE FEATURES DIRECTLY VIEWED BY THE FIELD CHECK. TO THE BEST OF OUR KNOWLEDGE AND WITHIN NORMALLY ACCEPTED LIMITS, THIS INFORMATION ACCURATELY REFLECTS CONDITIONS IN THE FIELD.
 2. EXCEPT WHERE SHOWN, ALL WATERMAIN AND FORCEMAIN LINES HAVE BEEN ATTAINED BY THE USE OF ELBOWS SMALLER THAN 45° OR BY PIPE DEFLECTION.
 3. DURING CONSTRUCTION OF THE SYSTEMS SHOWN ON THESE RECORD DRAWINGS A MINIMUM SEPARATION OF 18" VERTICALLY AND 10" HORIZONTALLY HAS BEEN MAINTAINED BETWEEN WATER MAINS AND SANITARY MAINS. WHERE THIS SEPARATION WAS NOT OBTAINABLE SANITARY MAINS WERE CONCRETE ENCASED.
 4. MANHOLE RINGS MAY BE ADJUSTED TO MATCH FINISHED PAVEMENT GRADES.
 5. AS-BUILT INFORMATION IS SHOWN IN SLANT LETTERING.

**RECORD DRAWING
OF
SEWER PLAN
FOR
MANATEE COUNTY DETENTION FACILITY**

LOCATED
SEC. 6, TWP. 33 S., RGE. 18 E.
MANATEE COUNTY, FLORIDA.

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. I FURTHER STATE THAT THIS RECORD DRAWING WAS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34206
RICHARD P. CLARKE P.E. #16377
DATE OF CERTIFICATION: _____

SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, IS TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVABLE IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34206
JAMES D. GAEGER PLS # 51879
DATE OF FIELD WORK: 8-9-93
DATE OF CERTIFICATION: 8-24-93

REVISIONS		
1	FIELD SUBMITTAL	0-33
2	RECORD DRAWING	1-30
3	FINAL SUBMITTAL	4-28-94
4		
5		
6		
7		

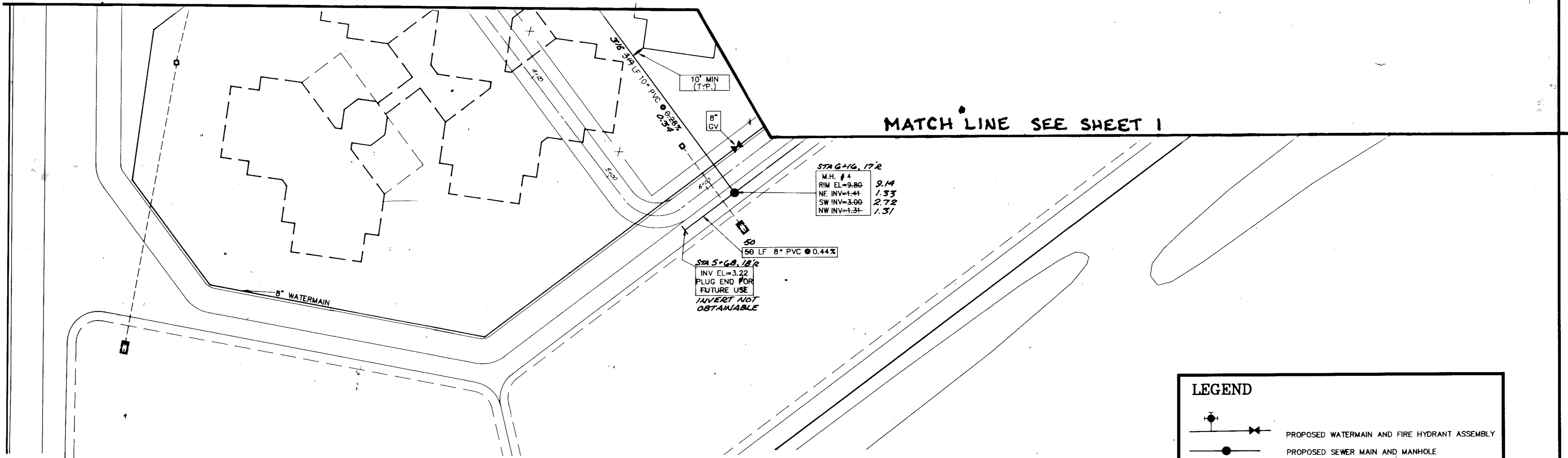
Zoller, Najjar & Shroyer, Inc.
Engineers, Planners, Surveyors & Landscape Architects

201 5th AVENUE DRIVE EAST
POST OFFICE BOX 9448
BRADENTON FLORIDA 33506
TELEPHONE (813) 748-9090

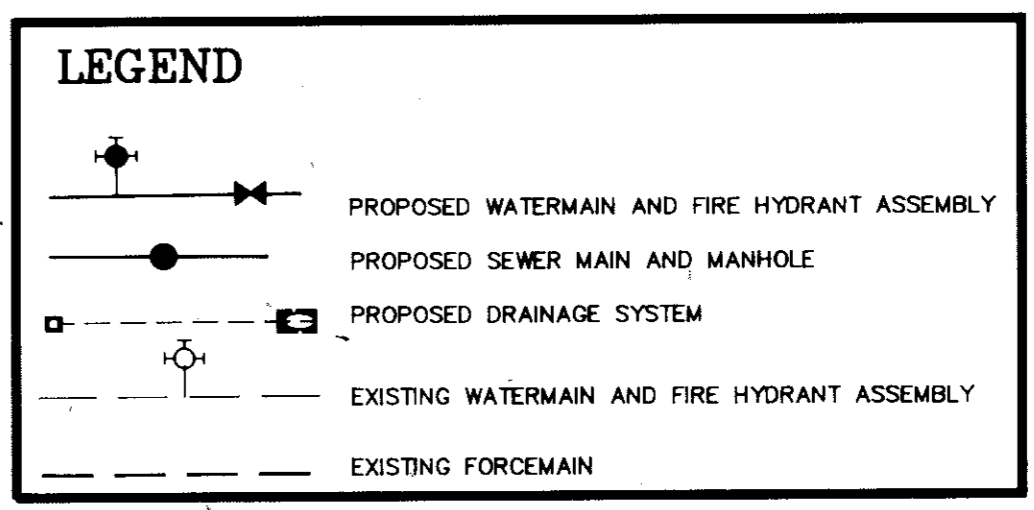
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DRAWN TSP COMP TSP JOB NO. 00-14431 FILE NO. _____ SHEET 1 OF 2

PRIVATE

T18



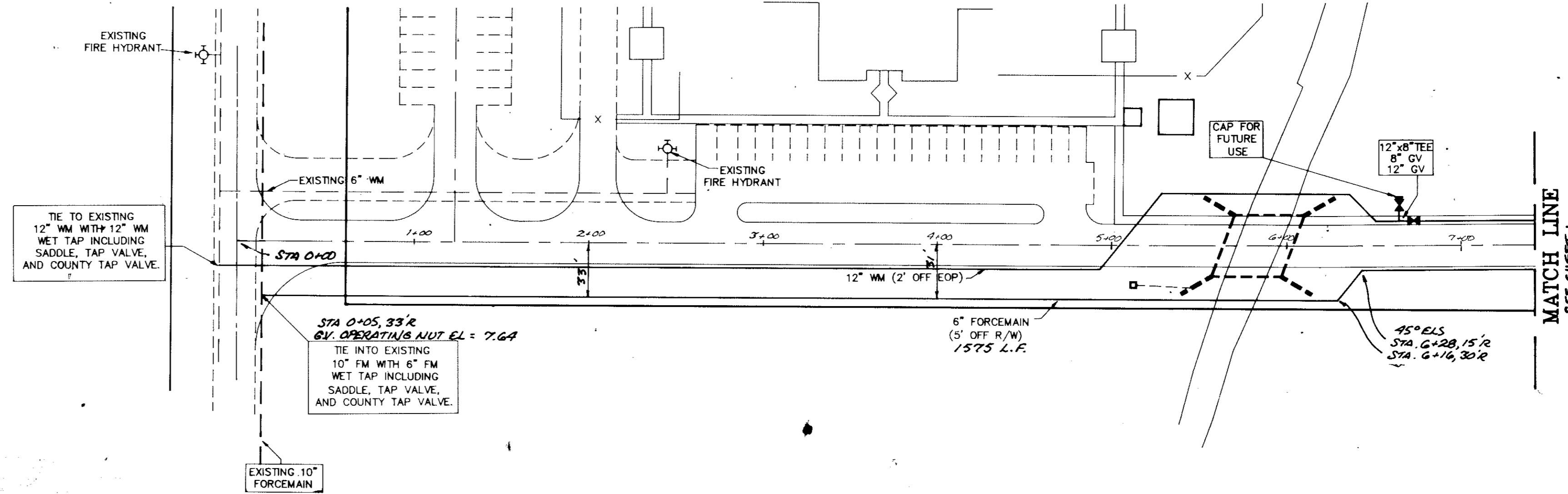
MATCH LINE SEE SHEET 1



NOTE:
SANITARY SEWER CLEANOUTS, COVERS WITHIN SECURITY FENCE, TO BE BOLTED TO RINGS. MANHOLE #5 TO HAVE LOCKING COVER PER DETAIL ON DETAIL SHEET.

- UTILITY CONSTRUCTION NOTES:
1. ALL CONSTRUCTION TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS. PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT, PUBLIC WORKS DEPARTMENT MINIMUM TECHNICAL STANDARDS (REV. 03), AND FDER. THE CONTRACTOR SHALL PRODUCE SAID DRAWINGS THROUGH MANATEE COUNTY PLANNING, PERMITTING AND INSPECTIONS DEPARTMENT (MCPPI) AND UPON COMPLETION SHALL PROVIDE A REPRODUCIBLE MYLAR AND TWO SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, TO THE ARCHITECT AND ENGINEER.
 - IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
 3. ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST REVISIONS 12/11/91 AND TO MEET ENGINEER'S SPECIFICATIONS. ALL PROPOSED CONSTRUCTION IS TO BE PRIVATELY OWNED AND OPERATED.
 4. THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL FPM, GTE AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
 5. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES ARE CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY STREET CONSTRUCTION.
 6. ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
 7. WATERMAIN TO BE CLASS C-900, SDR 18 AND MAINTAIN A MINIMUM 36" COVER.
 8. ALL UTILITIES SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY "CAAND", MOPWD AND FPM 48 HOURS MINIMUM PRIOR TO CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLAN.
 9. CONTRACTOR IS TO OBTAIN RIGHT-OF-WAY USE PERMIT PRIOR TO ANY OFF-SITE CONSTRUCTION.
 10. FORCEMAIN TO BE C-900 DR 18, MAINTAIN A MINIMUM OF 36" COVER.
 11. CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL UTILITY SERVICE LINES AND CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS PRIOR TO CONSTRUCTION.
 12. FIREMAIN PRESSURE PIPING TO BE C-900 DR 14.
 13. ALL REFERENCES TO ARCHITECTURAL PLANS INCLUDES ELECTRICAL, MECHANICAL AND PLUMBING PLANS.
 14. ALL REFERENCES TO GENERAL CONTRACTOR SHALL MEAN "APPROPRIATE TRADE".

- RECORD DRAWING NOTES:
1. THIS RECORD DRAWING INCLUDES LOCATIONS DERIVED FROM INFORMATION SUPPLIED BY THE CONTRACTOR OF RECORD IN ADDITION TO THOSE FEATURES DIRECTLY VIEWED BY Z, N, S FIELD CREWS. TO THE BEST OF OUR KNOWLEDGE AND WITHIN NORMALLY ACCEPTED LIMITS, THIS INFORMATION ACCURATELY REFLECTS CONDITIONS IN THE FIELD.
 2. EXCEPT WHERE SHOWN, ALL WATERMAIN AND FORCEMAIN BENDS HAVE BEEN OBTAINED BY THE USE OF ELBOWS SMALLER THAN 45° OR BY PIPE DEFLECTION.
 3. DURING CONSTRUCTION OF THE SYSTEMS SHOWN ON THESE RECORD DRAWINGS A MINIMUM SEPARATION OF 18" VERTICALLY AND 10" HORIZONTALLY HAS BEEN MAINTAINED BETWEEN WATER MAINS AND SANITARY MAINS. WHERE THIS SEPARATION WAS NOT OBTAINABLE SWIRTY MAINS WERE CONCRETE ENCASED.
 4. MANHOLE RIMS MAY BE ADJUSTED TO MATCH FINISHED PAVEMENT GRANCES.
 5. AS-BUILT INFORMATION IS SHOWN IN SLANT LETTERING.



REVISIONS

1	ADD P.H. ASBY FILE	12/1/92
2	MOD. FUTURE GENET.	1/8/93
3	MOD. PRE ARCH	2/17/93
4	SWANSON'S REVISIONS	3/10/93
5	MOD. GRINDER PUMP AREA	3/26/93
6	MOD. MANHOLE	4-5-93
7	ADD MANHOLE DETAIL ON 7	6-10-93

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. I FURTHER STATE THAT THIS RECORD DRAWING WAS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34108
RICHARD P. CLINE P.E. #16377
DATE OF CERTIFICATION:

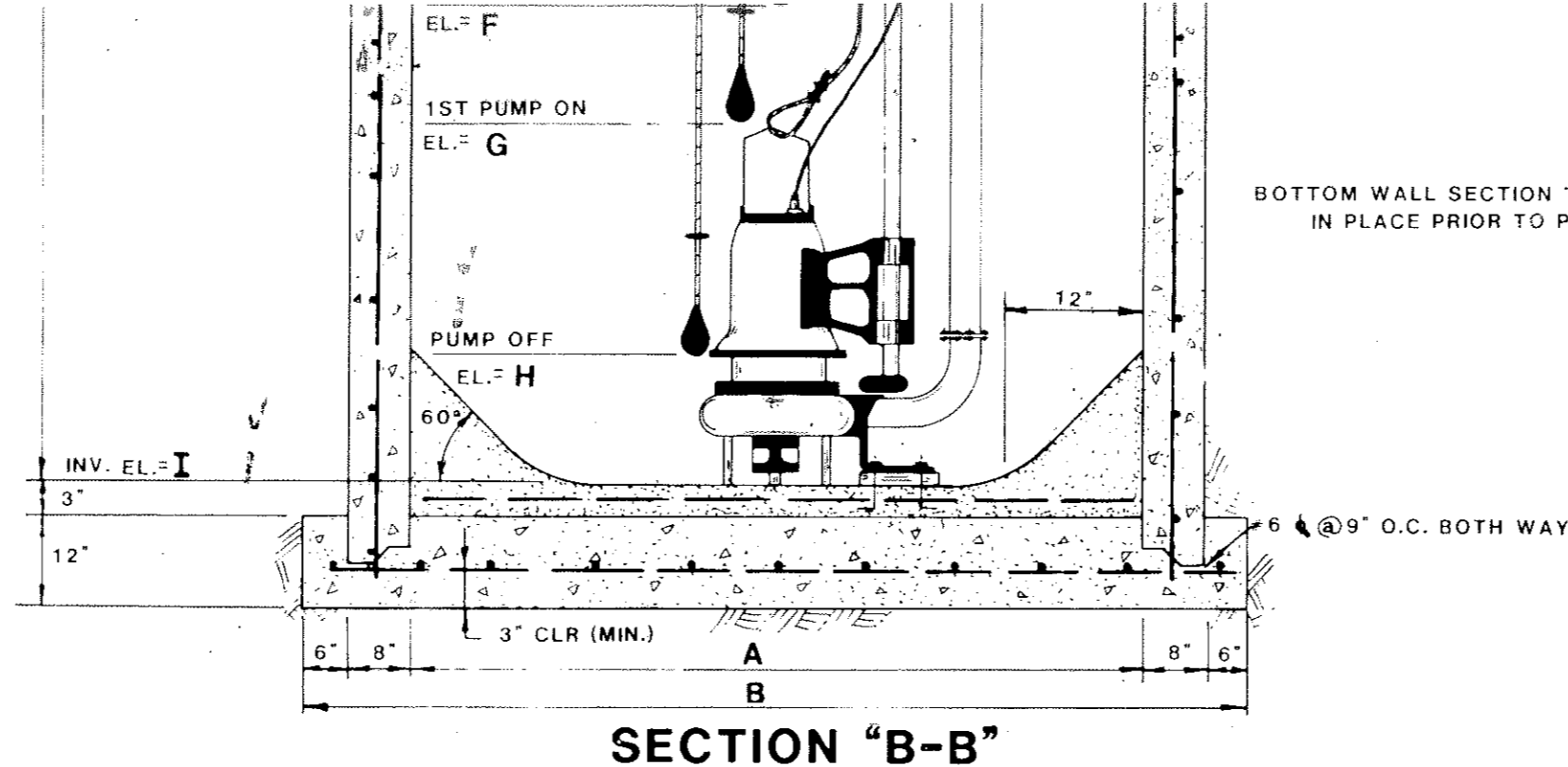
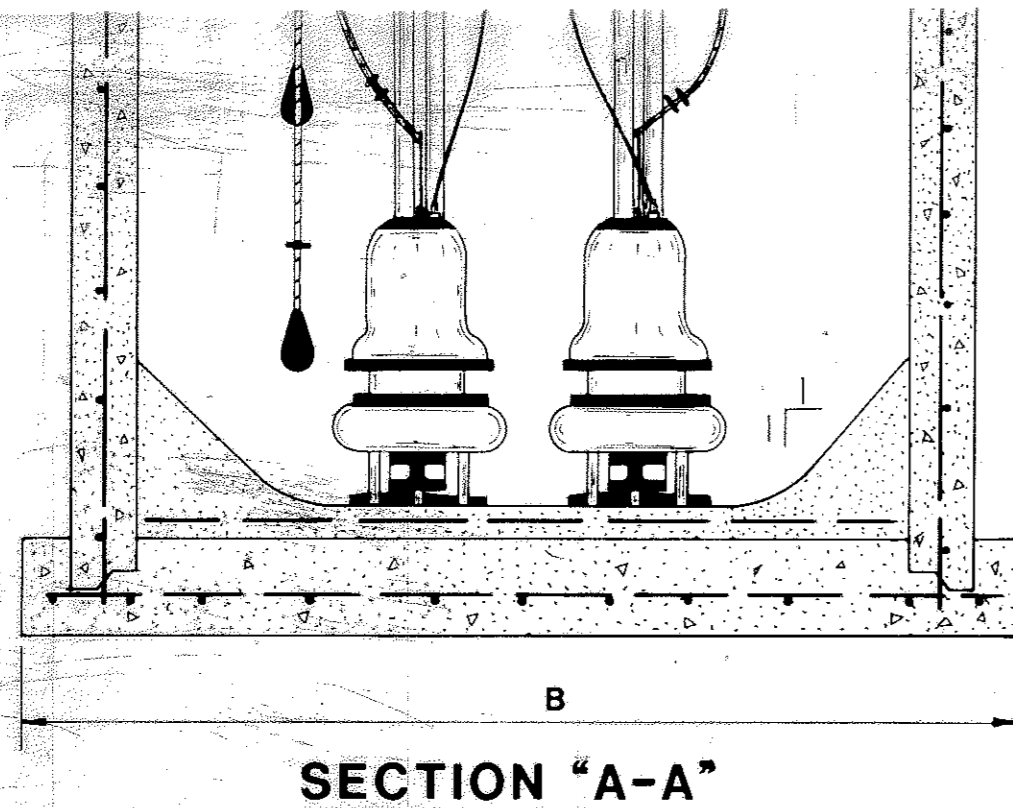
SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, IS TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVABLE IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.
ZOLLER, NAJJAR & SHROYER, INC.
P.O. BOX 3448
BRADENTON, FLORIDA 34108
JAMES D. GREER, R.L.S.#509
8-2-93
DATE OF FIELD WORK 10/24/92 DATE OF CERTIFICATION:

RECORD DRAWING
OF
SEWER PLAN
FOR

MANATEE COUNTY DETENTION FACILITY

LOCATED
SEC. 6, TWP. 33 S., RGE. 18 E.
MANATEE COUNTY, FLORIDA.

SHEET 2 OF 4.



SECTION "A-A"

SECTION "B-B"

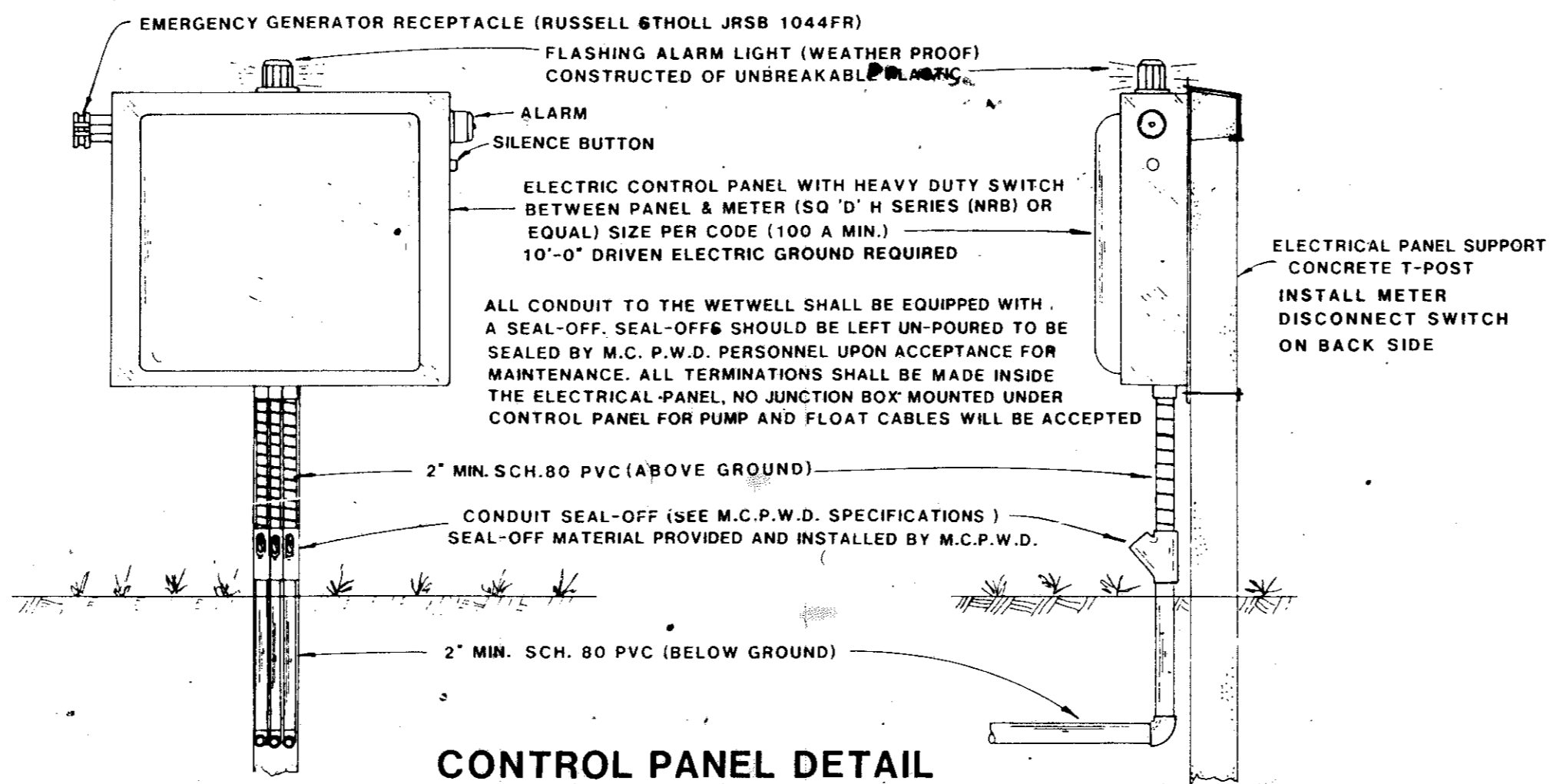
NOTE: FLOAT CONTROL LEVELS MAY BE ADJUSTED AT TIME OF INSTALLATION TO MEET PROPOSED SERVICE CONDITIONS.

SEE SHEET 4 FOR LIFT STATION AS-BUILTS

PUMP SPECIFICATIONS	
PUMPS	2 - S4 MRC
SIZE	7.5 HP
PHASE	3
VOLTAGE	480
G.P.M.	201
T.D.H.	53.80
IMPELLER	8.69"
R.P.M.	1750

NOTES:

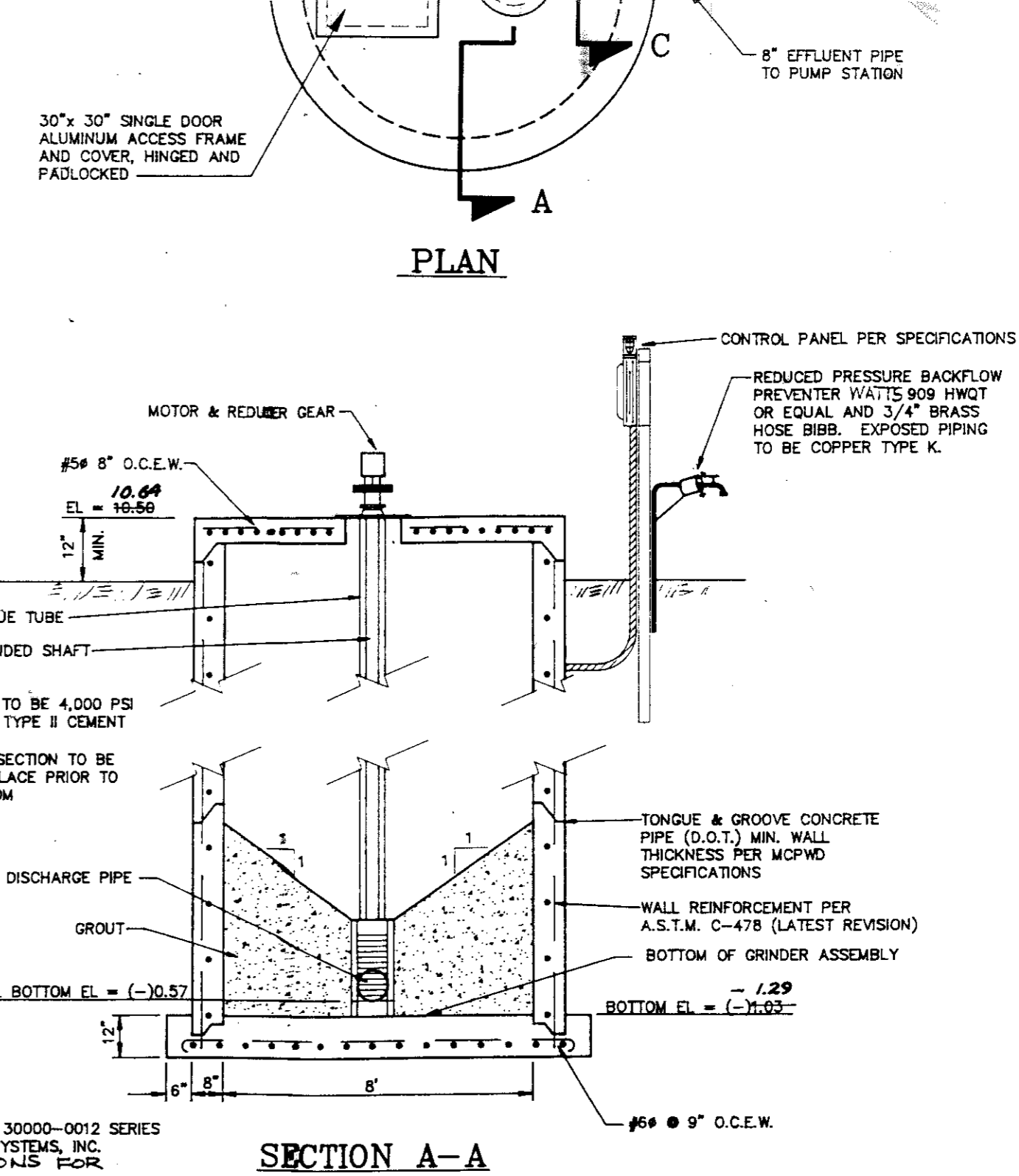
1. WET WELL AND VALVE BOX SHALL BE COATED INSIDE AND OUTSIDE WITH 2 COATS OF EPOXY TYPE PAINT AS APPROVED BY THE ENGINEER. ALL EXPOSED PIPING AND VALVES ABOVE PUMPS SHALL RECEIVE 2 FIELD COATS OF EPOXY PAINT AFTER ASSEMBLY. ALL SURFACES TO BE PAINTED SHALL BE THOROUGHLY CLEANED IN PREPARATION FOR PAINTING.
2. DETAILED SHOP DRAWINGS INCLUDING ALL COMPONENTS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER AND MANATEE COUNTY PUBLIC WORKS DEPT. (MCPWD) PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO PROVIDE 5 LOCKS, KEYED ALIKE. LOCKS FOR PUBLIC LIFT STATIONS ARE TO BE OBTAINED FROM MANATEE COUNTY UTILITIES DEPARTMENT.
4. PUMP CONTROLS TO BE ACTIVATED BY APPROVED MERCURY FLOAT SWITCHES AS SHOWN. CONTROLS TO BE 24 VAC.
5. ELECTRIC CONTROLS TO BE HOUSED IN WEATHERPROOF NEMA 3R STAINLESS STEEL ENCLOSURE. LOAD CENTER SHALL BE SQUARE "D" OR EQUAL WITH FURNAS MAGNETIC ALTERNATOR. PANEL SHALL CONTAIN DISCONNECT 2 H.O.A. SWITCHES, HOUR METERS TO RECORD RUNNING TIME FOR EACH PUMP, AND ALL INTERNAL WIRING NECESSARY FOR A COMPLETE OPERATING SYSTEM MARKED AND IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE. CONTRACTOR TO OBTAIN MCPWD MINIMUM SPECIFICATIONS (SPECS) PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
6. ALL ACCESS LIDS TO BE ALUMINUM, HINGED AND PADLOCKED AS SHOWN.
7. FORCE MAIN TO HAVE A MINIMUM OF 36" COVER.
8. FURNISH AND INSTALL PRESSURE TYPE VACUUM BREAKER, SIMILAR OR EQUAL TO WATTS MODEL 909, QT, ON LIFT STATION WATER SERVICE.
9. ALL WORK IS TO BE IN COMPLIANCE WITH MCPWD SPECS. IN CASE OF CONFLICT, THE MORE STRINGENT CRITERIA SHALL GOVERN.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL IF PRECAST STRUCTURES ARE USED.
11. CONTRACTOR IS ADVISED TO CHECK THE LANDSCAPING PLAN FOR PLANTING AND IRRIGATION DETAILS.
12. ALL WETWELL PIPING TO BE C-900 WITH DUCTILE IRON FLANGED FITTINGS CONNECTED USING UNFLANGED C-900 ADAPTERS OR EQUAL.



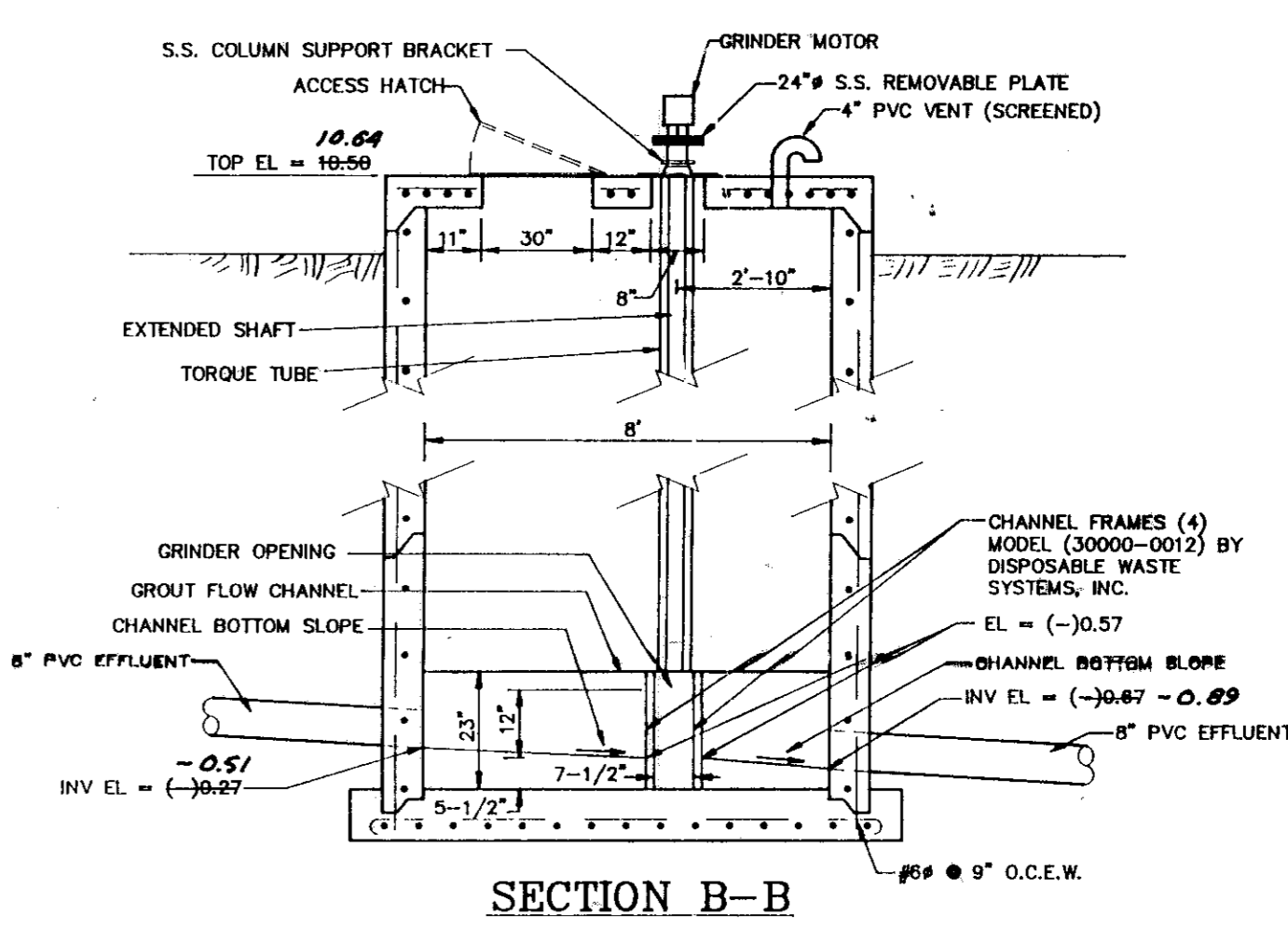
CONTROL PANEL DETAIL

RECORD DRAWING NOTES:

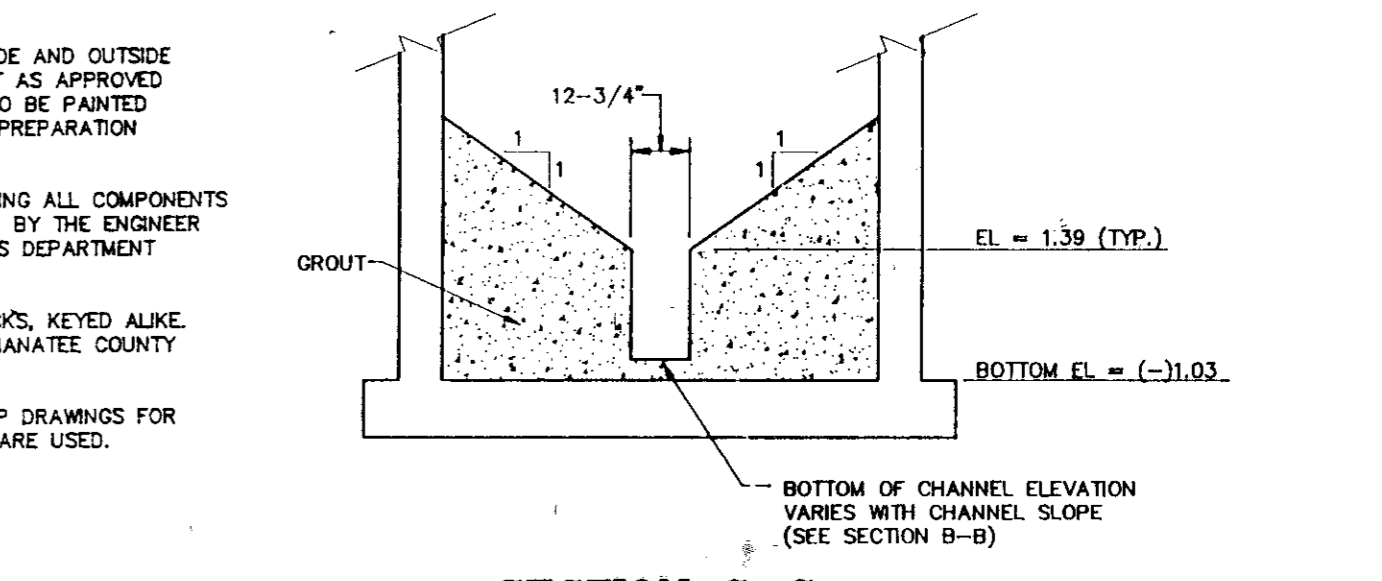
1. THIS RECORD DRAWING INCLUDES LOCATIONS DERIVED FROM INFORMATION SUPPLIED BY THE CONTRACTOR OF RECORD IN ADDITION TO THOSE FEATURES DIRECTLY VIEWED BY 2, N, S FIELD CREWS. TO THE BEST OF OUR KNOWLEDGE AND WITHIN NORMALLY ACCEPTED LIMITS, THIS INFORMATION ACCURATELY REFLECTS CONDITIONS IN THE FIELD.
2. EXCEPT WHERE SHOWN, ALL WATERMAIN AND FORCEMAIN BENDS HAVE BEEN ATTAINED BY THE USE OF ELBOWS SMALLER THAN 45° OR BY PIPE DEFLECTION.
3. DURING CONSTRUCTION OF THE SYSTEMS SHOWN ON THESE RECORD DRAWINGS A MINIMUM SEPARATION OF 18" VERTICALLY AND 10" HORIZONTALLY HAS BEEN MAINTAINED BETWEEN WATER MAINS AND SANITARY MAINS, WHERE THIS SEPARATION WAS NOT OBTAINABLE SANITARY MAINS WERE CONCRETE ENCASED.
4. MANHOLE RIMS MAY BE ADJUSTED TO MATCH FINISHED PAVEMENT GRADERS.
5. AS-BUILT INFORMATION IS SHOWN IN SLANT LETTERING.
6. WATER SERVICES FROM THE CURB STOP TO THE BUILDING, AND FIRE LINES FROM THE BACKFLOW PREVENTER TO THE BUILDING ARE THE RESPONSIBILITY OF THE PLUMBER AND ARE NOT AS-BUILT ON THESE RECORD DRAWINGS.



SECTION A-A



SECTION B-B



SECTION C-C

GRINDER HOLE DETAIL

- NOTES:
1. MANHOLE SHALL BE COATED INSIDE AND OUTSIDE WITH 2 COATS OF EPOXY TYPE PAINT AS APPROVED BY THE ENGINEER. ALL SURFACES TO BE PAINTED SHALL BE THOROUGHLY CLEANED IN PREPARATION FOR PAINTING.
 2. DETAILED SHOP DRAWINGS INCLUDING ALL COMPONENTS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER AND MANATEE COUNTY PUBLIC WORKS DEPARTMENT (MCPWD) PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO PROVIDE 3 LOCKS, KEYED ALIKE. LOCKS ARE TO BE OBTAINED FROM MANATEE COUNTY UTILITIES DEPARTMENT.
 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL IF PRECAST STRUCTURES ARE USED.

RECORD DRAWING OF LIFT STATION DETAILS

MANATEE COUNTY DETENTION FACILITY

LOCATED SEC. 6, TWP. 33 S., RGE. 18 E. MANATEE COUNTY, FLORIDA.

SHEET 3 OF 4

REVISIONS	
1	MOD. PRE ARCH. 2/17/93
2	MOD. ELEV. I 3/11/93
3	ADD GRINDER HOLE DET. 3/26/93
4	DESIGN DRAWING 4/18/93
5	FINAL SUBM. 4/22/93
6	
7	

C-11 00-12171 11/18/92

LIFT STATION DETAILS

MANATEE COUNTY DETENTION FACILITY

LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

JERRY N. ZOLLER 914 14th STREET WEST

ZOLLER, NAJJAR & SHROYER, INC. 201 5th AVENUE DRIVE EAST

AIA, P.A. BRADENTON, FLORIDA

ASSOCIATE ARCHITECT

CIVIL ENGINEER

DATE OF CERTIFICATION: JAMES D. GREEN P.L.S. 8518

DATE OF FIELD WORK: 8-9-93

DATE OF CERTIFICATION: F.L. CLARKE P.L.E. 818377

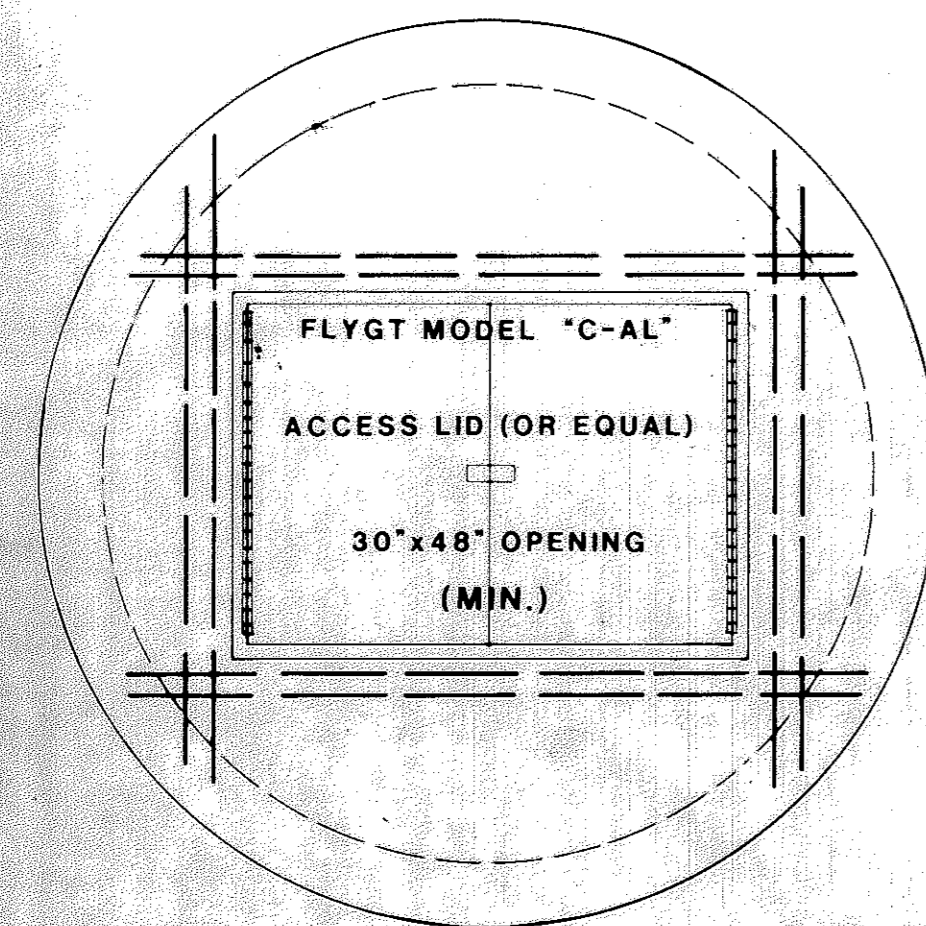
DATE OF CERTIFICATION: JAMES D. GREEN P.L.S. 8518

DATE OF FIELD WORK: 8-9-93

DATE OF CERTIFICATION: F.L. CLARKE P.L.E. 818377

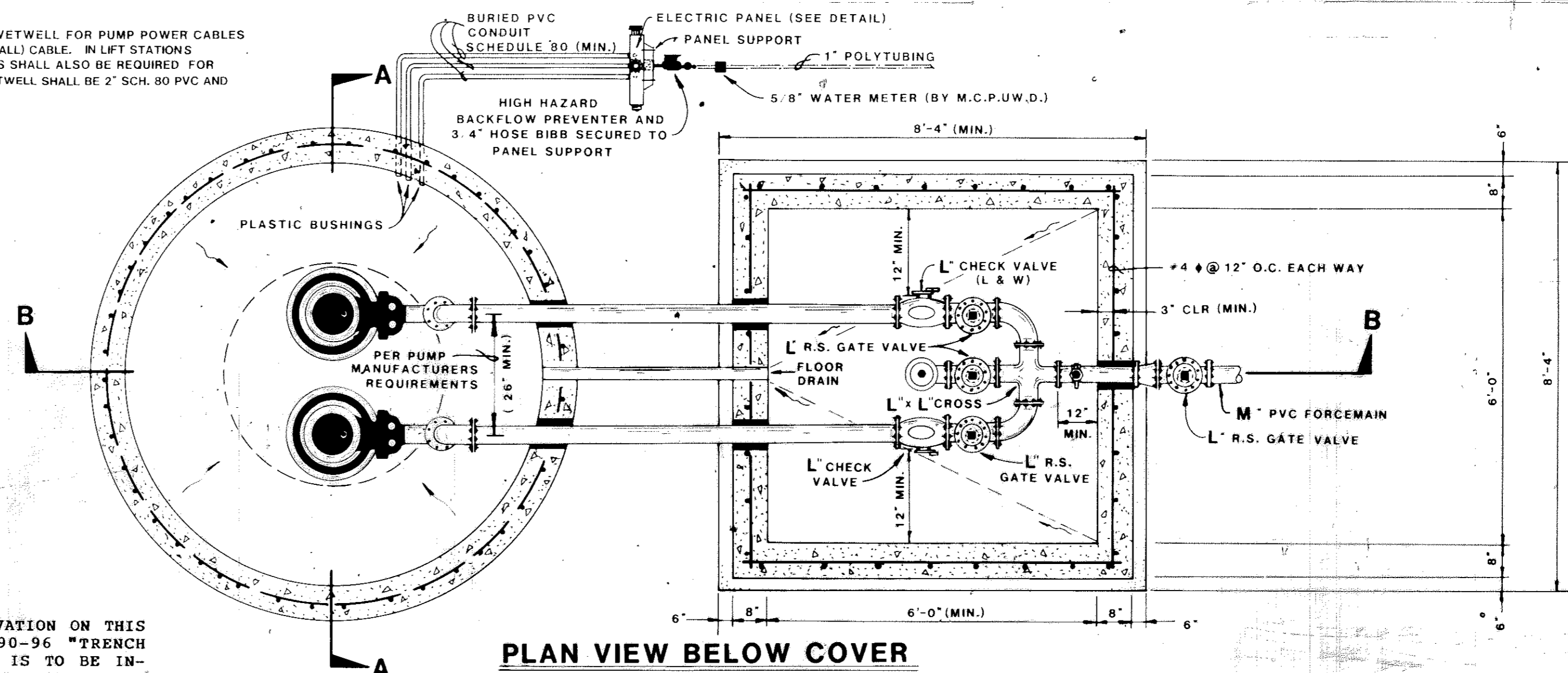
T19

NOTE:
ALL LIFT STATIONS SHALL BE EQUIPPED WITH ONE CONDUIT TO THE WETWELL FOR PUMP POWER CABLES AND A SEPARATE CONDUIT TO THE WETWELL FOR THE CONTROL (FLOATBALL) CABLE. IN LIFT STATIONS WHERE THE PUMP CORDS ARE 3/4" OR LARGER, SEPARATE CONDUITS SHALL ALSO BE REQUIRED FOR EACH PUMP POWER CABLE. ALL BURRED CONDUIT TO THE LIFT STATION WETWELL SHALL BE 2" SCH. 80 PVC AND SHALL BE RUN BY THE SHORTEST ROUTE POSSIBLE.

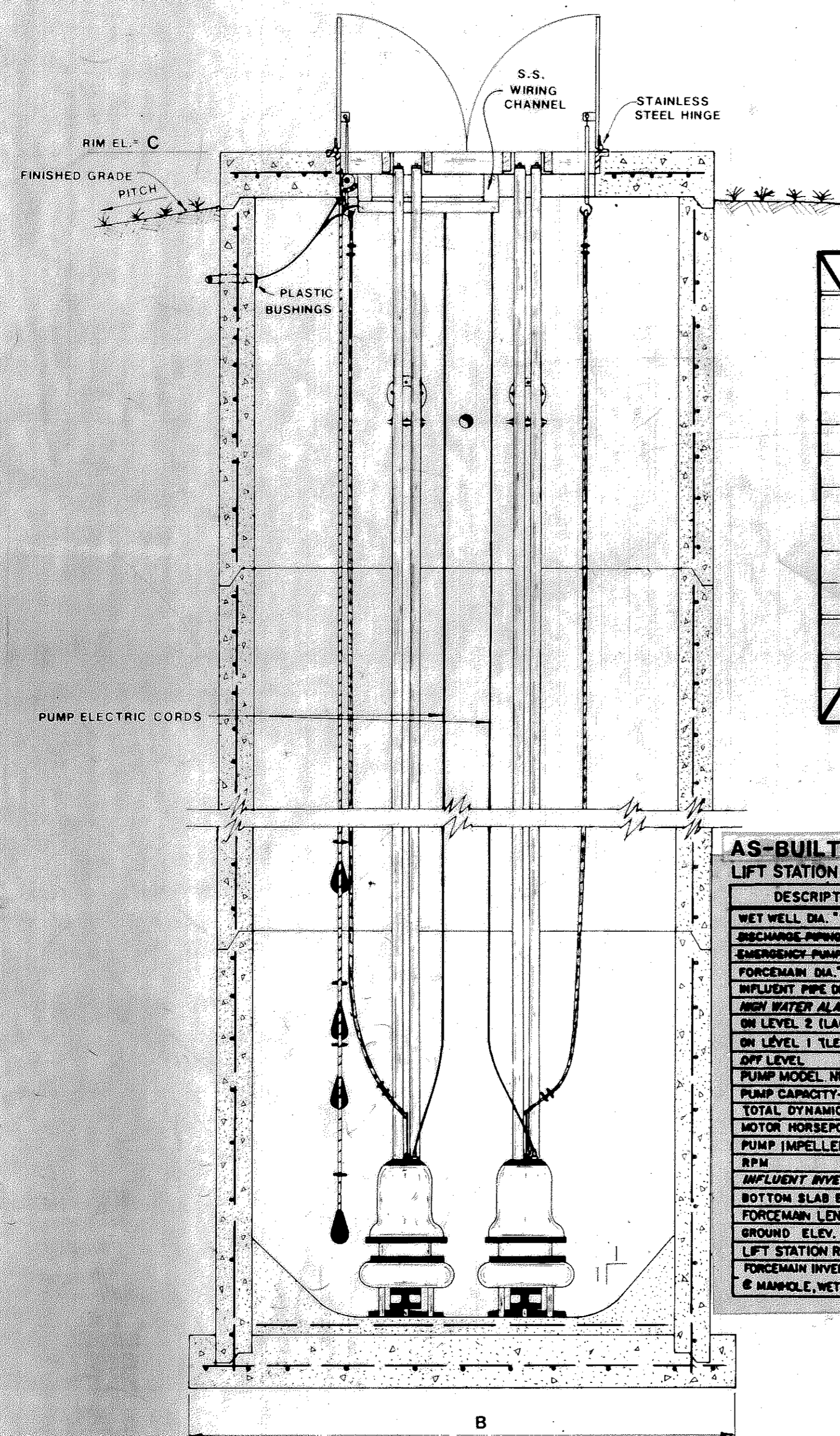


PLAN VIEW

ALL BIDDERS ARE HEREBY ADVISED THAT ALL EXCAVATION ON THIS PROJECT MUST COMPLY WITH FLORIDA STATUTE 90-96 "TRENCH SAFETY ACT", AND THAT THE COST OF COMPLIANCE IS TO BE INCLUDED IN HIS BASE BID. THE BIDDER SHALL INDICATE ON THE BID FORM THE COSTS ASSOCIATED WITH COMPLIANCE.



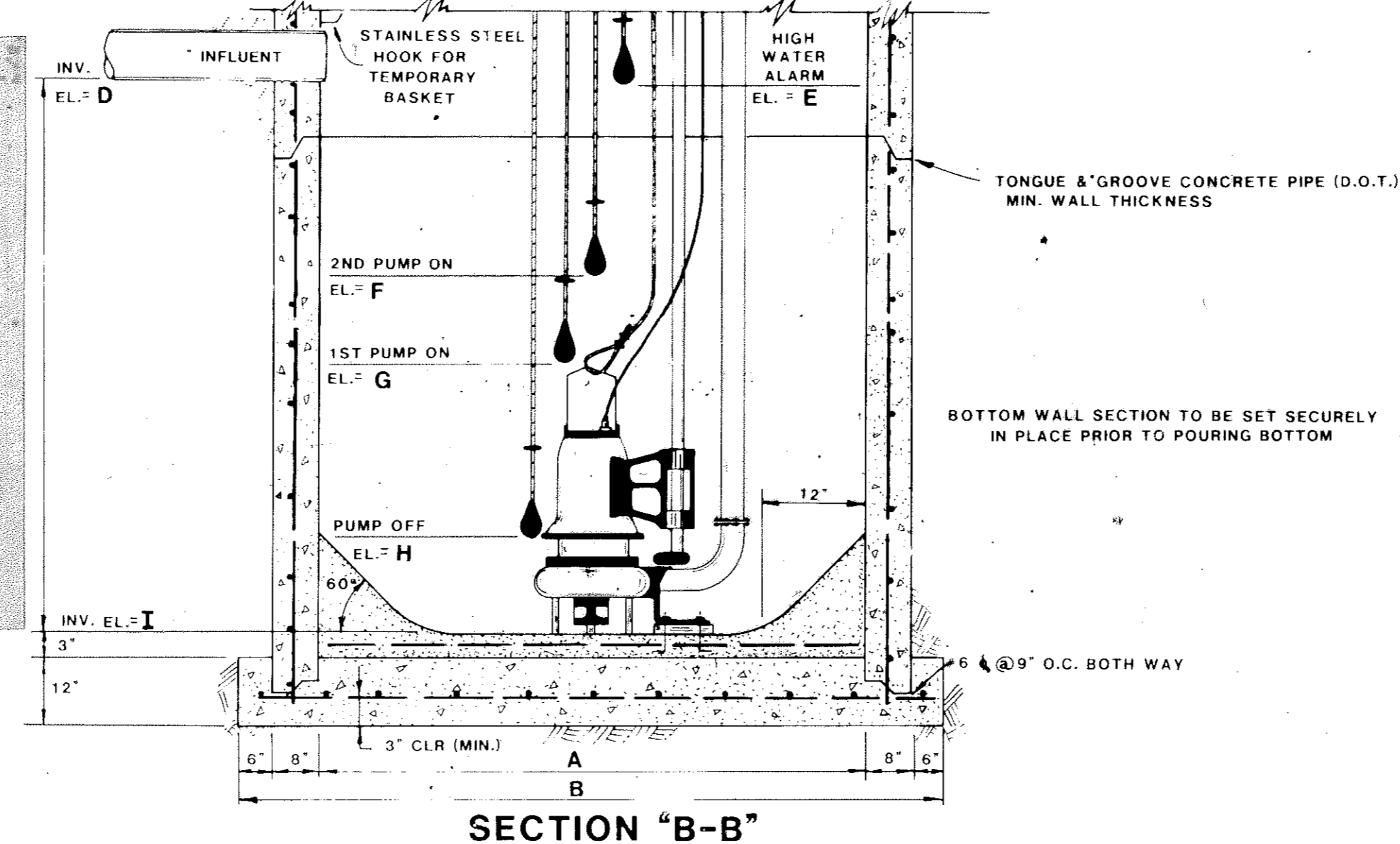
PLAN VIEW BELOW COVER



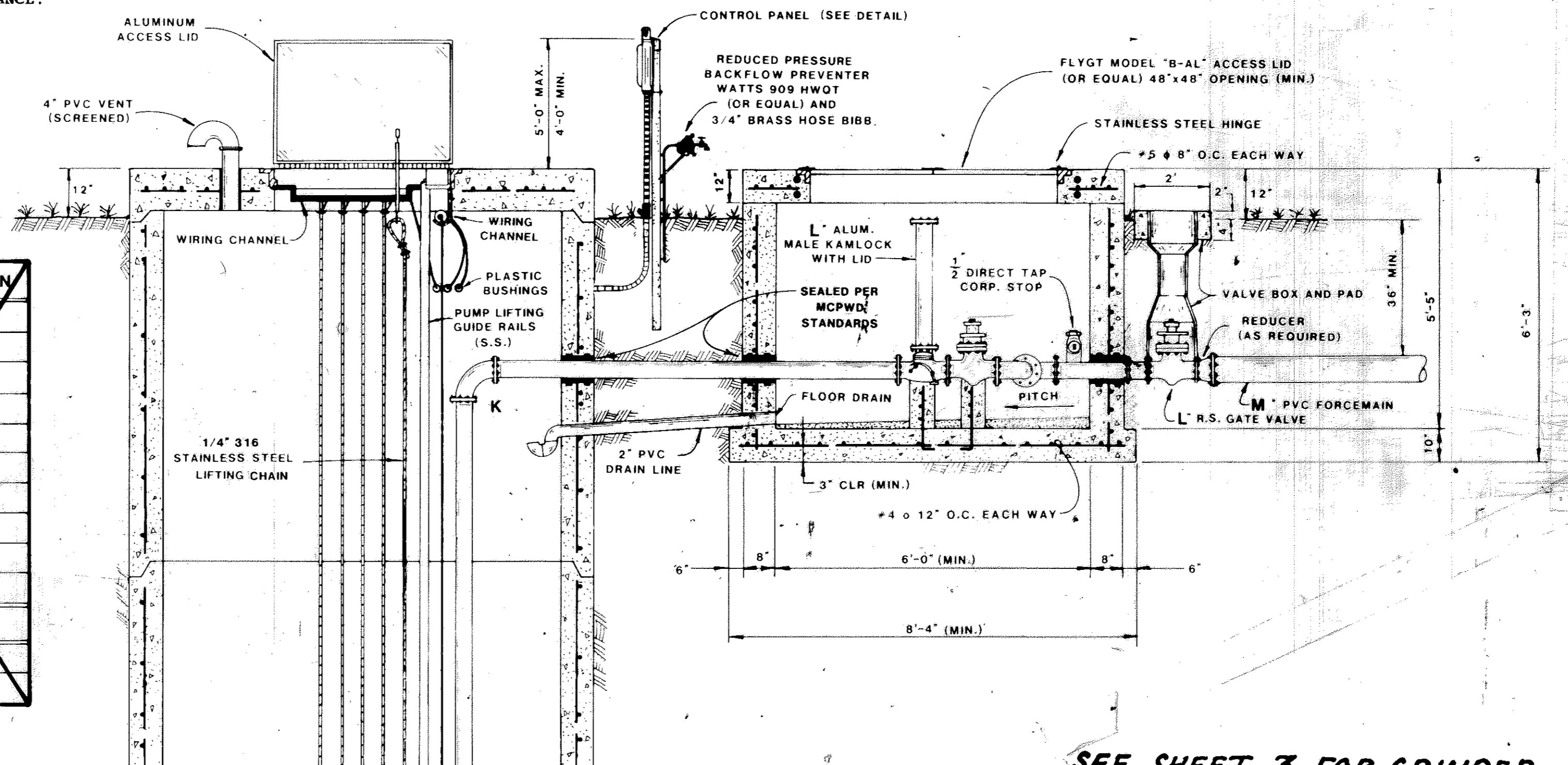
SECTION "A-A"

6' DIA. LIFT STATION	
A	6'
B	8.33'
C	10.50'
D	-0.72'
E	-1.12'
F	-2.42'
G	-3.12'
H	-4.57'
I	-5.35'
K	4"
VALVE VAULT	
L	4"
M	6"

AS-BUILT LIFT STATION SCHEDULE	
DESCRIPTION	
WET WELL DIA. "W"	6'
DISCHARGE PUMP DIA. "X"	6"
EMERGENCY PUMP DIA. "Y"	6"
FORCEMAIN DIA. "C"	6"
INFLUENT PIPE DIA. "I"	10"
100% WATER ALARM ELEV.	-0.50'
ON LEVEL 2 (LAB)	-2.12'
ON LEVEL 1 (LEAD)	-7.89'
OFF LEVEL	-12.02'
PUMP MODEL NUMBER	344WAC
PUMP CAPACITY - GPM EACH	201
TOTAL DYNAMIC HEAD - FEET	23.2
MOTOR HORSEPOWER	7.5
PUMP IMPELLER SIZE	9.63
RPM	1750
INFLUENT INVERT ELEV.	-3.89'
BOTTOM SLAB ELEV.	-5.39'
FORCEMAIN LENGTH, TYPE	1875 LF PK
GROUND ELEV.	10.2
LIFT STATION RIM ELEV.	10.61
FORCEMAIN INVERT ELEVATION @ MANHOLE, WETWELL OR MANHOLE	7.67

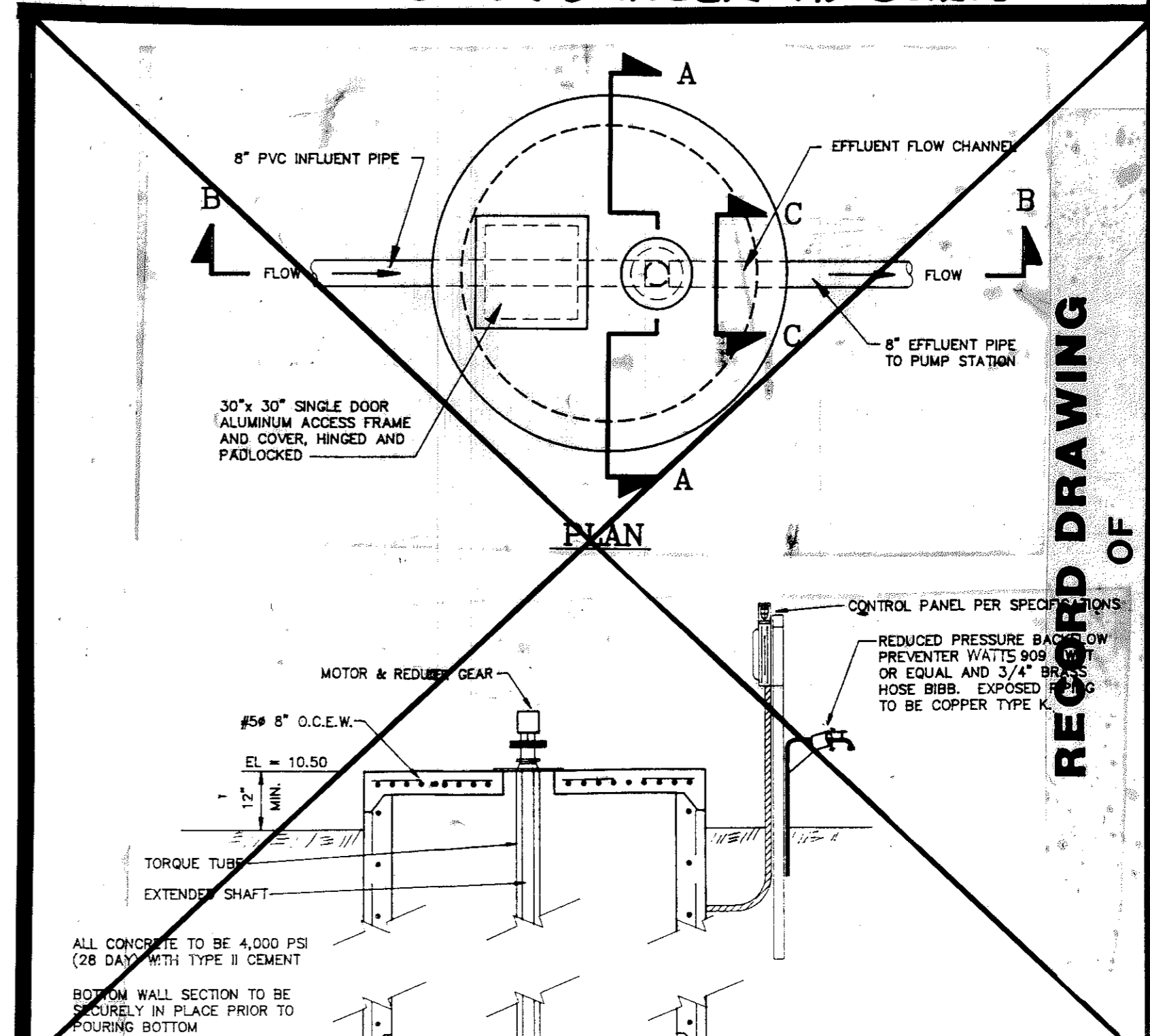


SECTION "B-B"



RECORD DRAWING NOTES:
1. ALL RECORD DRAWING INFORMATION IS SHOWN IN THE "AS-BUILT LIFT STATION SCHEDULE" ON THIS SHEET. THE INFORMATION SHOWN HEREIN SHALL BE PART OF THE SYSTEM AS CONSTRUCTED.
2. FLOOR CONTROLS ARE NOT SET AT THIS TIME. THE ELEVATIONS SHOWN MAY NOT BE OF THE FINAL SET POSITIONS.

SEE SHEET 3 FOR GRINDER AS-BUILTS



RECORD DRAWING OF LIFT STATION DETAILS

MANATEE COUNTY DETENTION FACILITY
LOCATED
SEC. 6, TWP. 33 S., RGE. 18 E.
MANATEE COUNTY, FLORIDA.

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 4-14-94
SCALE: 1/4" = 1'-0"

Toller, Najar & Shroyer, Inc.
Engineers, Planners, Surveyors & Landscape Architects

DATE	4-14-94	SCALE	1/4" = 1'-0"
CHECKED	[Signature]	DATE	4-14-94
DESIGNED	[Signature]	SCALE	1/4" = 1'-0"
DRAWN	[Signature]	DATE	4-14-94
FILE NO.	98-1103-1	DATE	4-14-94
PROJECT NO.	305	DATE	4-14-94
PROJECT NAME	MANATEE COUNTY DETENTION FACILITY	DATE	4-14-94
PROJECT LOCATION	SEC. 6, TWP. 33 S., RGE. 18 E., MANATEE COUNTY, FLORIDA	DATE	4-14-94
PROJECT DRAWING NO.	4-01-1	DATE	4-14-94

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA AND THAT I AM THE DESIGNER OF THE PROJECT SHOWN ON THIS SHEET. I HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA PROFESSIONAL ENGINEERING ACT AND I HAVE PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
ZOLLER, NAJAR & SHROYER, INC.
P. O. BOX 9448
BRANSON, FLORIDA 32408
DATE OF CERTIFICATION: [Blank]
RECORDED P. CLARKE P. E. #16377

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA AND THAT I AM THE DESIGNER OF THE PROJECT SHOWN ON THIS SHEET. I HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA PROFESSIONAL ENGINEERING ACT AND I HAVE PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
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