

CONSTRUCTION PLANS FOR

# CELESTIAL ROAD PUMP STATION

MAYOR:  
JERRY REDDING

COUNCIL MEMBERS:  
BOBBY HATFIELD  
LYNN SPRULL  
RICHARD RODER  
JIM DUFFY  
JOHN NOLAN

CITY MANAGER:  
RON WHITEHEAD

DIRECTOR OF UTILITIES:  
DON PREECE

Approved by: *Jerry Redding* Date: 5-1-87  
APPROVED BY: JERRY REDDING, MAYOR OF ADDISON

*A. Wayne*

GINN, INC.  
Consulting Engineers Dallas, Texas  
1987

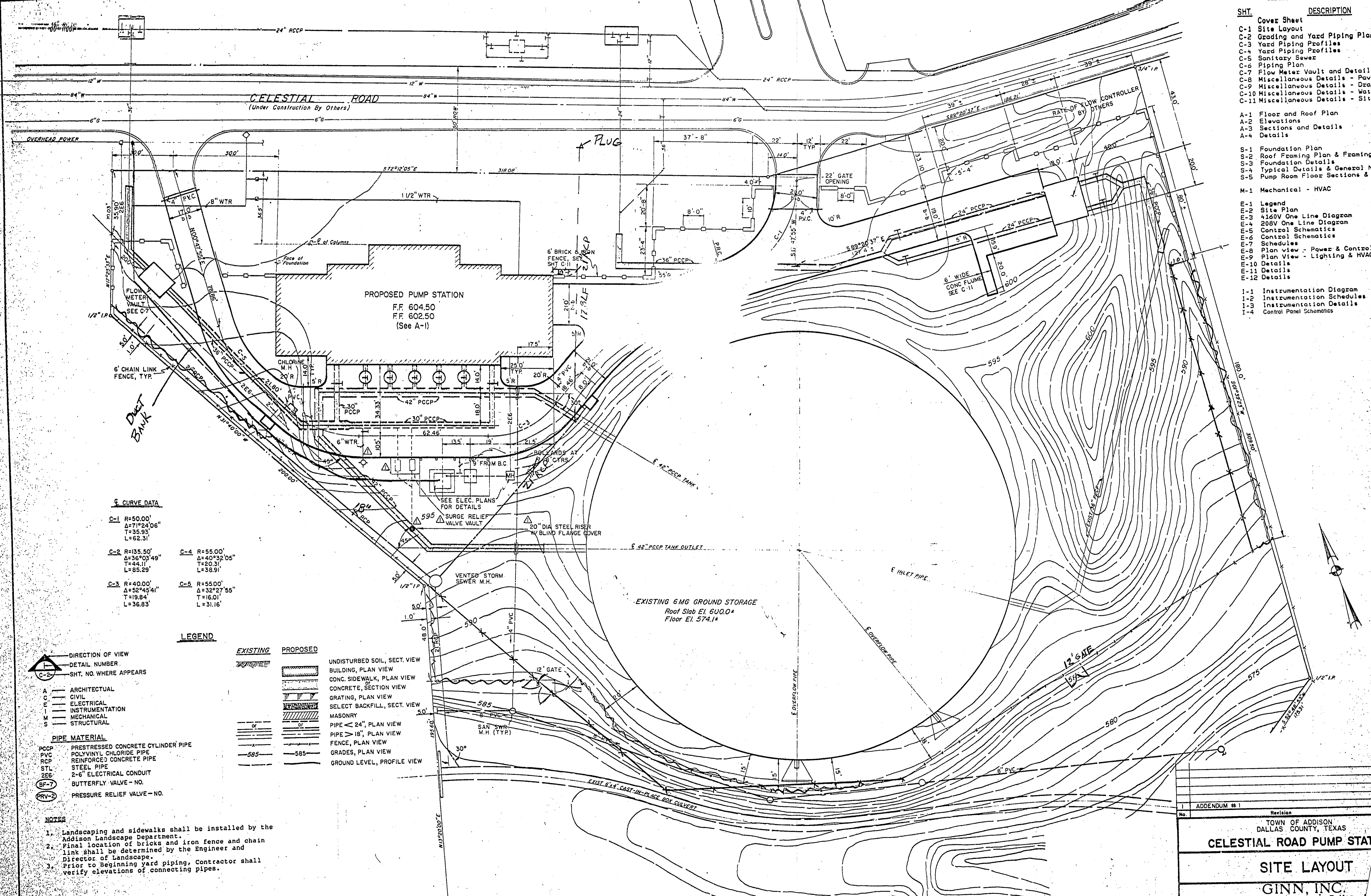
CELESTIAL PUMP STATION 1987 Eng. Mark w/p: B24-5

B24-5



INDEX TO DRAWINGS

SHT.	DESCRIPTION
Cover Sheet	
C-1	Site Layout
C-2	Grading and Yard Piping Plan
C-3	Yard Piping Profiles
C-4	Yard Piping Profiles
C-5	Sanitary Sewer
C-6	Piping Plan
C-7	Flow Meter Vault and Details
C-8	Miscellaneous Details - Paving
C-9	Miscellaneous Details - Drainage
C-10	Miscellaneous Details - Water
C-11	Miscellaneous Details - Site Work
A-1	Floor and Roof Plan
A-2	Elevations
A-3	Sections and Details
A-4	Details
S-1	Foundation Plan
S-2	Roof Framing Plan & Framing Details
S-3	Foundation Details
S-4	Typical Details & General Notes
S-5	Pump Room Floor Sections & Details
M-1	Mechanical - HVAC
E-1	Legend
E-2	Site Plan
E-3	110V One Line Diagram
E-4	208V One Line Diagram
E-5	Control Schematics
E-6	Control Schematics
E-7	Schedules
E-8	Plan view - Power & Control
E-9	Plan view - Lighting & HVAC
E-10	Details
E-11	Details
E-12	Details
I-1	Instrumentation Diagram
I-2	Instrumentation Schedules
I-3	Instrumentation Details
I-4	Control Panel Schematics



**6 CURVE DATA**

C-1	R=50.00' Δ=71°24'06" T=35.93' L=62.31'
C-2	R=135.50' Δ=36°03'49" T=44.11' L=85.29'
C-3	R=40.00' Δ=52°45'41" T=19.84' L=36.83'
C-4	R=55.00' Δ=40°32'05" T=20.31' L=38.91'
C-5	R=55.00' Δ=32°27'55" T=16.01' L=31.16'

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	UNDISTURBED SOIL, SECT. VIEW
(Symbol)	(Symbol)	BUILDING, PLAN VIEW
(Symbol)	(Symbol)	CONC. SIDEWALK, PLAN VIEW
(Symbol)	(Symbol)	CONCRETE, SECTION VIEW
(Symbol)	(Symbol)	GRATING, PLAN VIEW
(Symbol)	(Symbol)	SELECT BACKFILL, SECT. VIEW
(Symbol)	(Symbol)	MASONRY
(Symbol)	(Symbol)	PIPE > 24", PLAN VIEW
(Symbol)	(Symbol)	PIPE > 18", PLAN VIEW
(Symbol)	(Symbol)	FENCE, PLAN VIEW
(Symbol)	(Symbol)	GRADES, PLAN VIEW
(Symbol)	(Symbol)	GROUND LEVEL, PROFILE VIEW

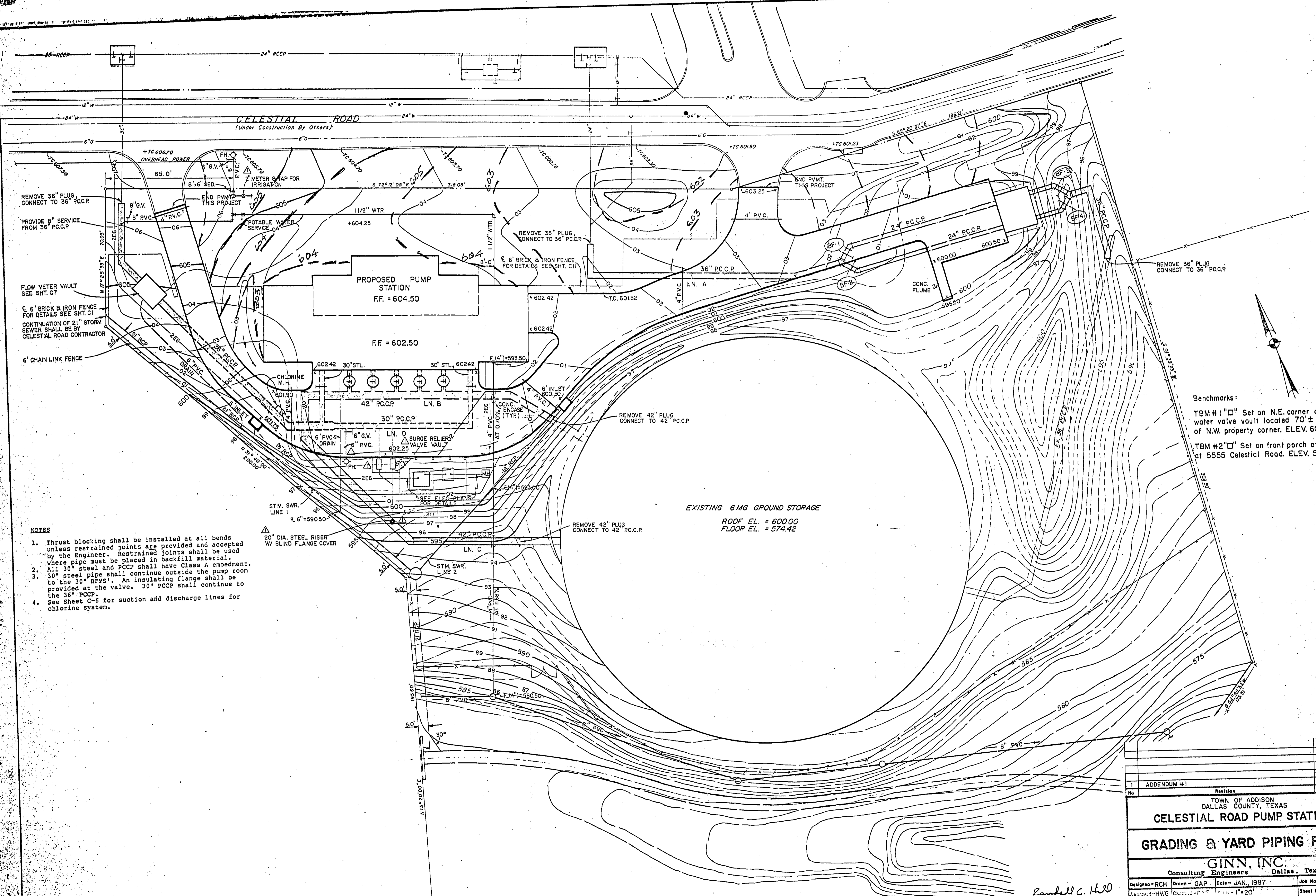
PIPE MATERIAL	DESCRIPTION
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
STL	STEEL PIPE
2EG	2-6" ELECTRICAL CONDUIT
BF-7	BUTTERFLY VALVE - NO.
PRV-2	PRESSURE RELIEF VALVE - NO.

- NOTES**
1. Landscaping and sidewalks shall be installed by the Addison Landscape Department.
  2. Final location of bricks and chain link shall be determined by the Engineer and Director of Landscape.
  3. Prior to beginning yard piping, Contractor shall verify elevations of connecting pipes.

ADDENDUM #1		Revision
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
<b>CELESTIAL ROAD PUMP STAT</b>		
<b>SITE LAYOUT</b>		
<b>GINN, INC.</b> Consulting Engineers Dallas		
Designed - RCH	Drawn - GAP	Date - JAN, 1987
Approved - HWG	Checked - GAF	Scale - 1"=20'

Randall C. Hill  
2-19-1987





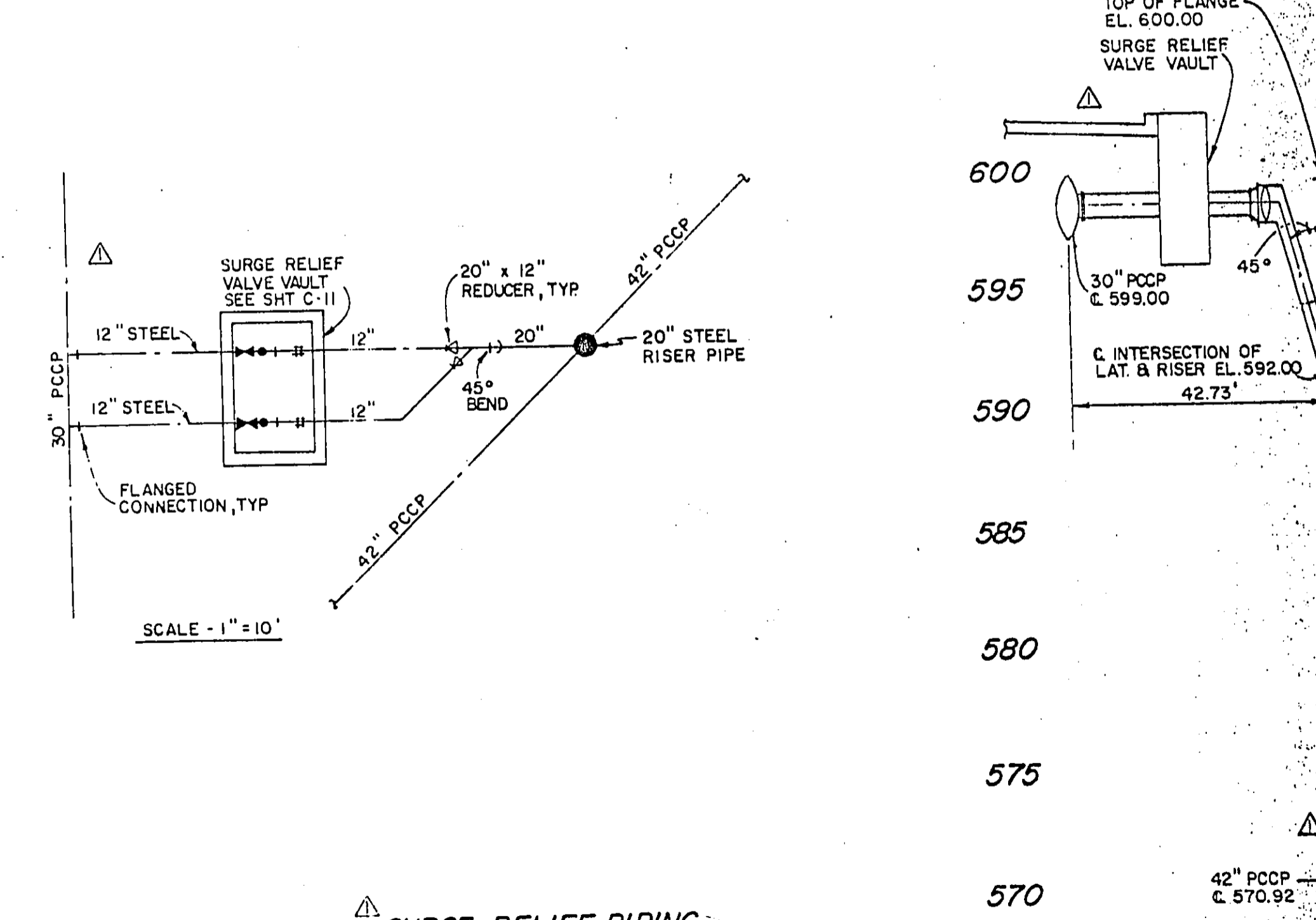
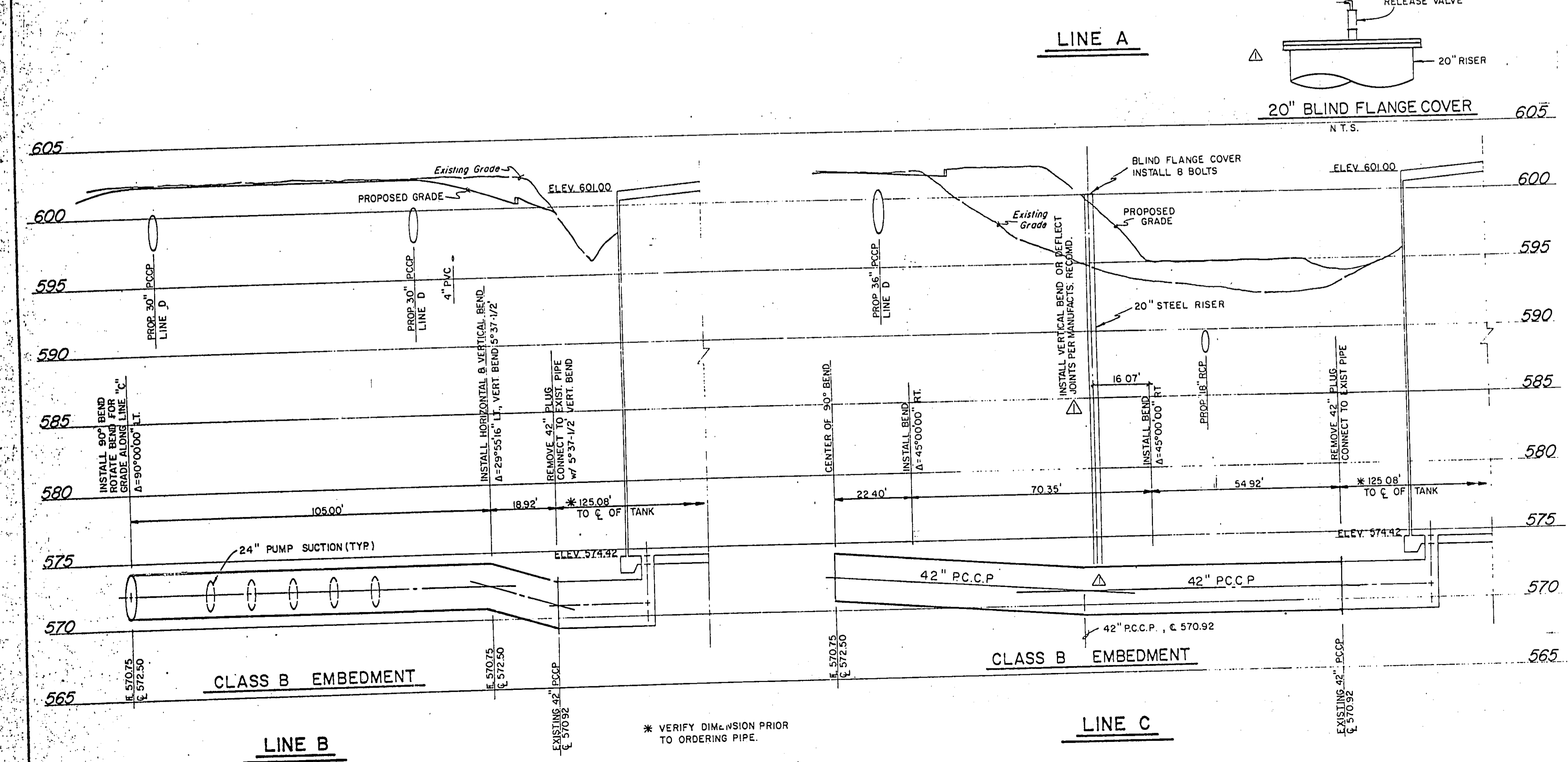
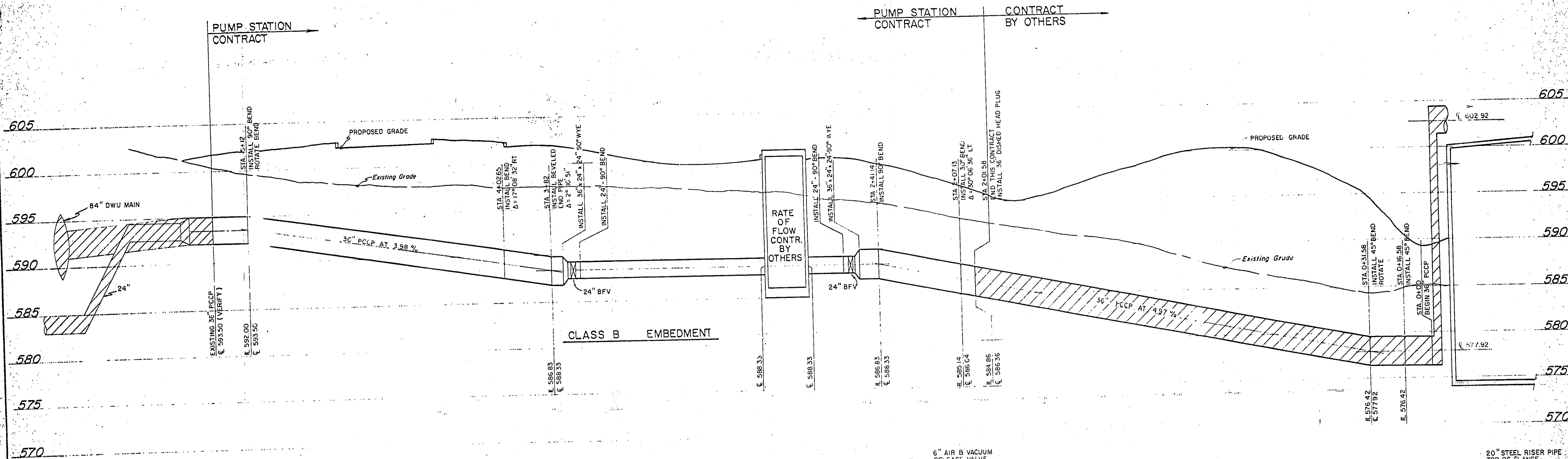
- NOTES**
1. Thrust blocking shall be installed at all bends unless restrained joints are provided and accepted by the Engineer. Restrained joints shall be used where pipe must be placed in backfill material.
  2. All 30" steel and PCCP shall have Class A embedment.
  3. 30" steel pipe shall continue outside the pump room to the 30" B.P.V.S'. An insulating flange shall be provided at the valve. 30" PCCP shall continue to the 36" PCCP.
  4. See Sheet C-6 for suction and discharge lines for chlorine system.

**Benchmarks:**

- TBM #1 "□" Set on N.E. corner concrete water valve vault located 70 ± north of N.W. property corner. ELEV. 608.44
- TBM #2 "□" Set on front porch of church at 5555 Celestial Road. ELEV. 577.95

1	ADDENDUM #1	RCH	3-20-87
No	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>CELESTIAL ROAD PUMP STATION</b>			
<b>GRADING &amp; YARD PIPING PLAN</b>			
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - RCH	Drawn - GAP	Date - JAN, 1987	Job No. - 217
Approved - HWG	Checked - CAP	Scale - 1" = 20'	Sheet C-2 of

*Randall C. Hill*  
2.14.87



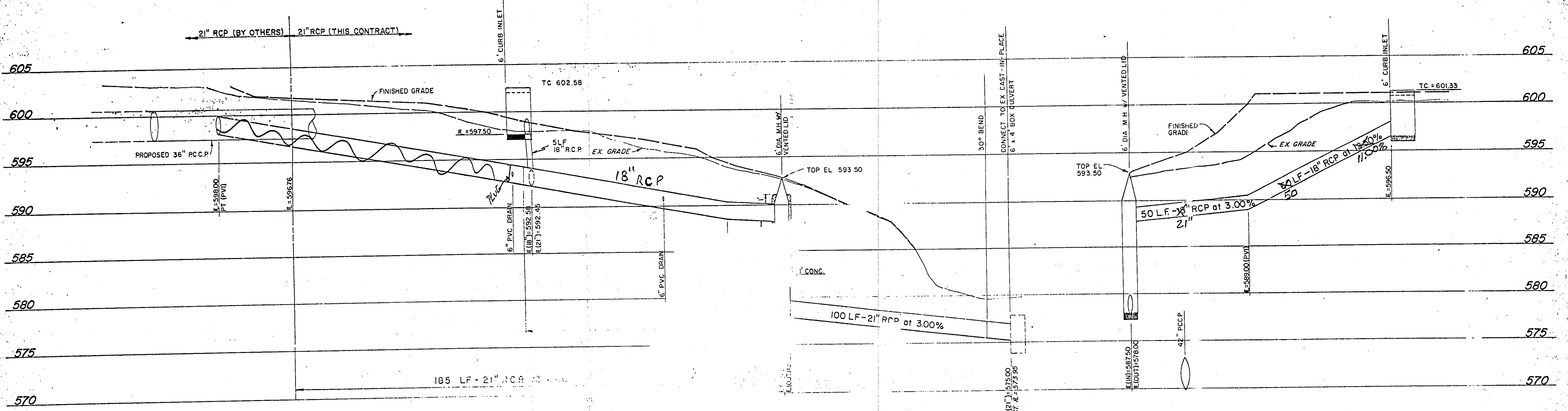
**SURGE RELIEF PIPING PLAN & PROFILE**

ADDENDUM #1	Revision	R.C.H. 13-20-87
No.	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
<b>CELESTIAL ROAD PUMP STATION</b>		
<b>YARD PIPING PROFILES</b>		
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas		
Designed - RCH	Drawn - GAP	Date - JAN, 1984
Approved - HWG	Checked - GAF	Scale - 1" = 20' H / 1" = 5' V
		Job No. - 217
		Sheet C-3 of

*Randall C. Hill*  
8/22/86

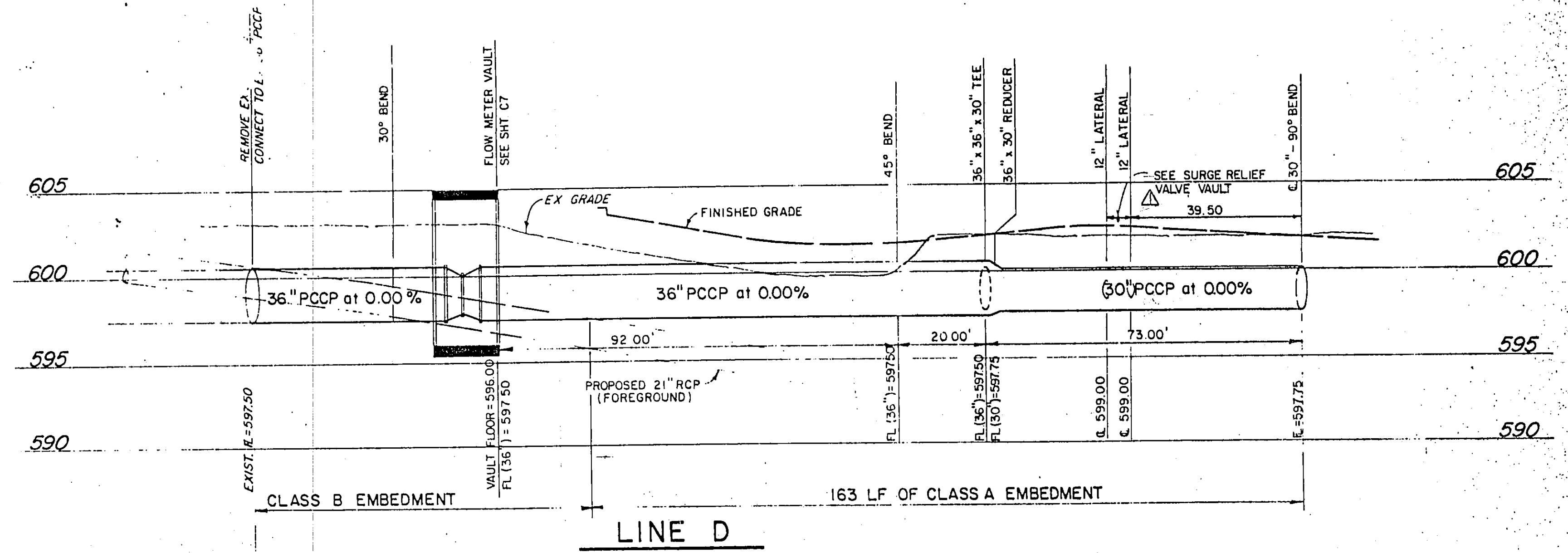
\* VERIFY DIMENSION PRIOR TO ORDERING PIPE.





STORM DRAINAGE

STORM DRAINAGE LINE 2

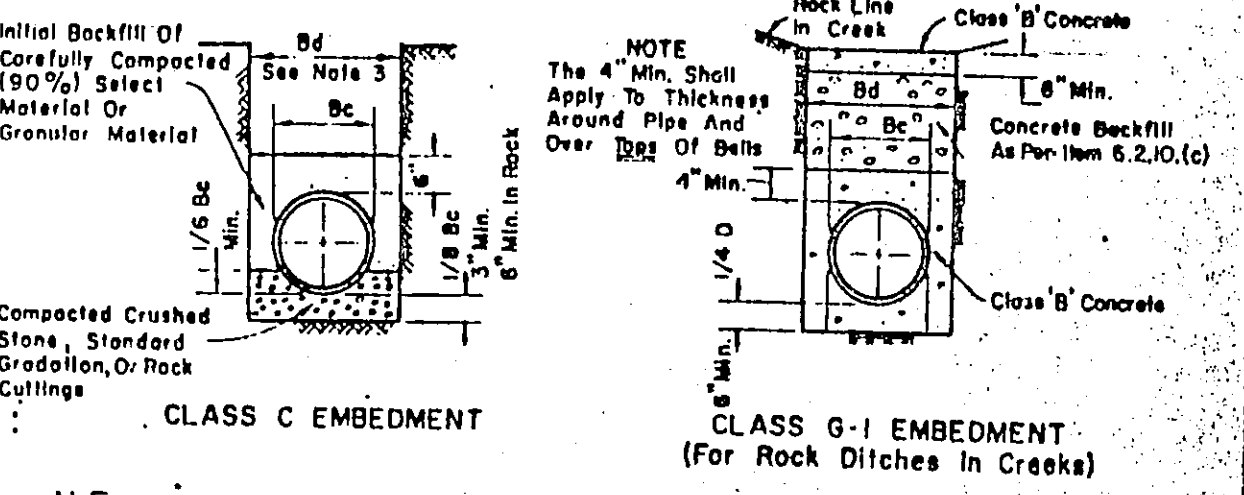
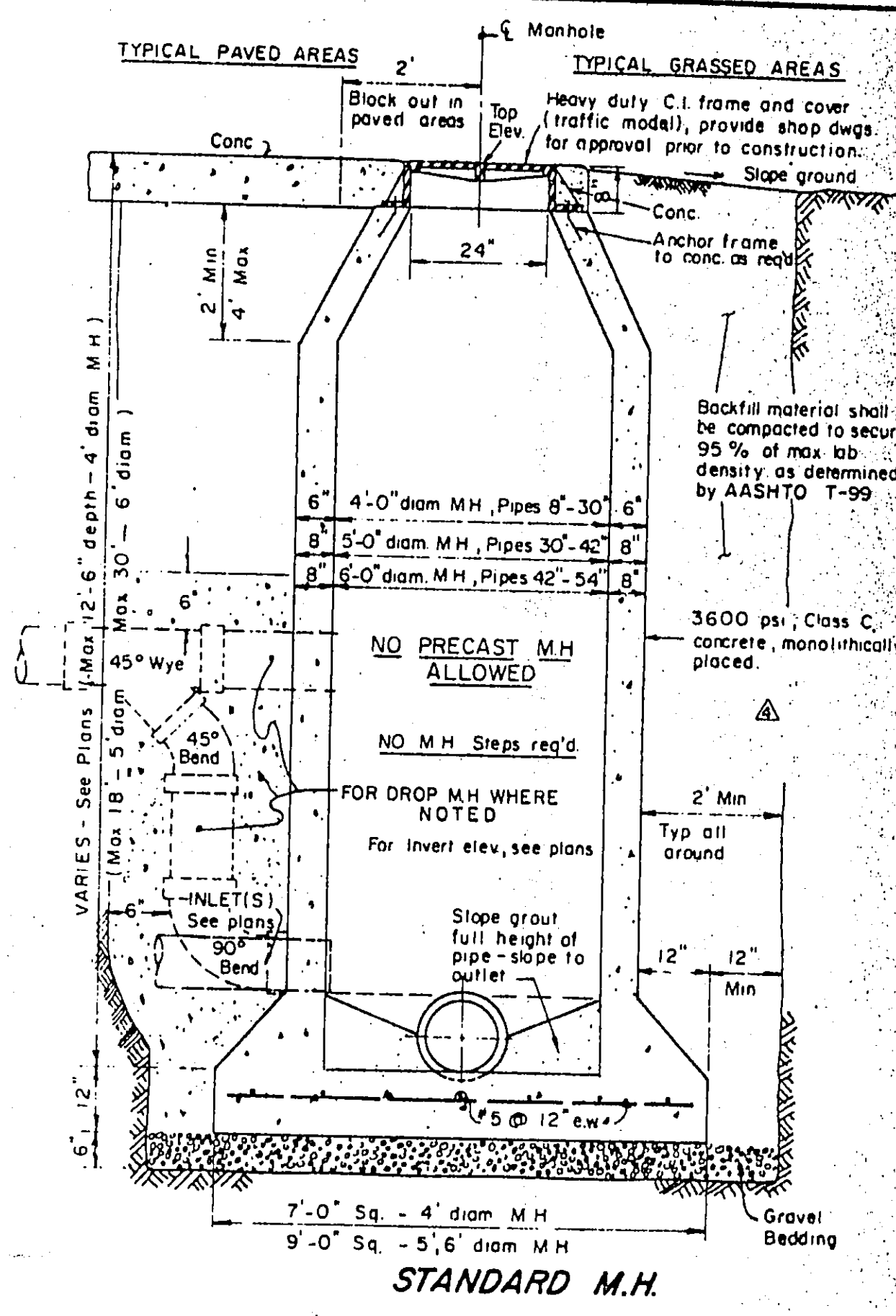
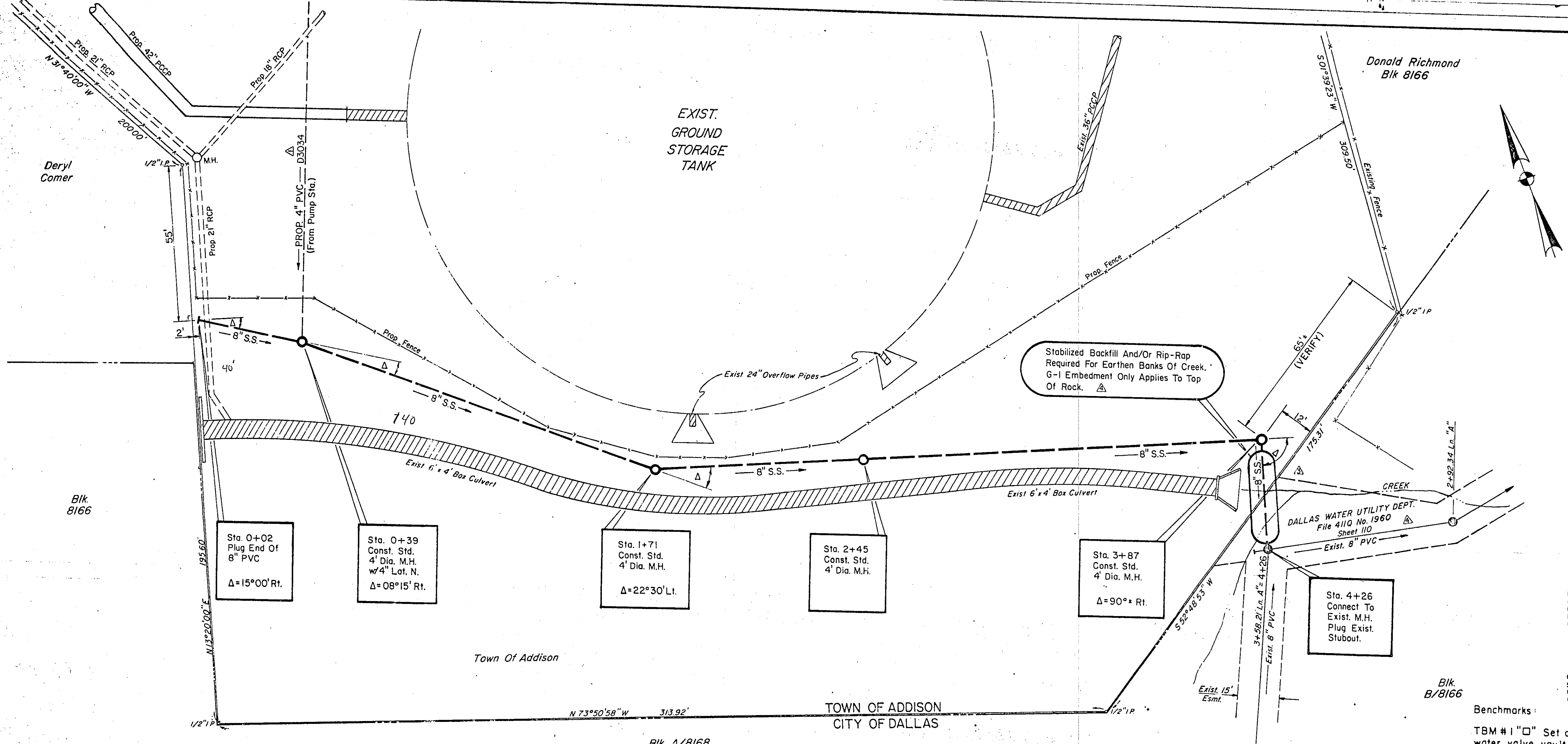


LINE D

ADDENDUM #1		Revision		R.C.H.	3-20-87
No.		By	Date		
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
<b>CELESTIAL ROAD PUMP STATION</b>					
<b>YARD PIPING PROFILES</b>					
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas					
Designed - RCH	Drawn - GAP	Date - JAN., 1987	Job No. - 217		
Approved - HWG	Checked - GAF	Scale - 1" = 20'H/1" = 5'V	Sheet - C-4 of		

*Randall C. Hill*  
2-19-87

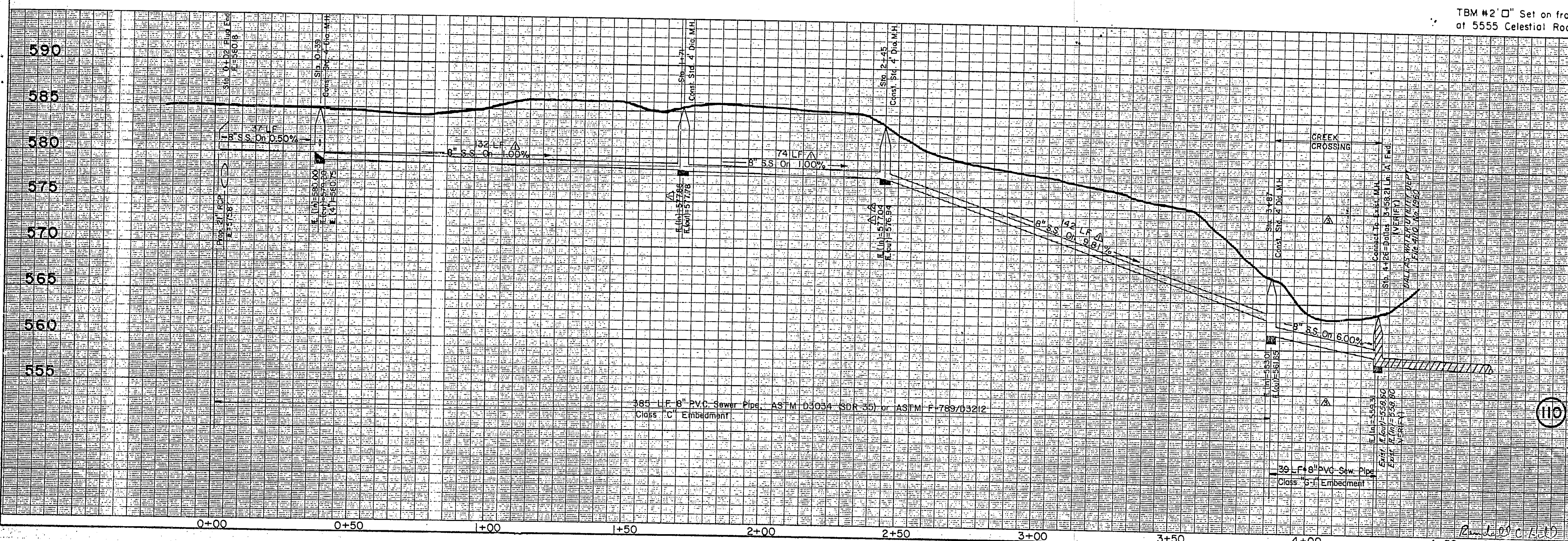




Benchmarks:

TBM #1 "□" Set on N.E. corner concrete water valve vault located 70' ± north of NW property corner. ELEV. 608.44  
 TBM #2 "□" Set on front porch of church at 5555 Celestial Road ELEV. 577.95

No.	Revision	App.
1	Add Embedment Note B Sht. No., Delete MH Option	RCH
2	Revise Alignment & Profile	RCH
3	Correct Elevations	RCH
4	Addendum No. 2	RCH



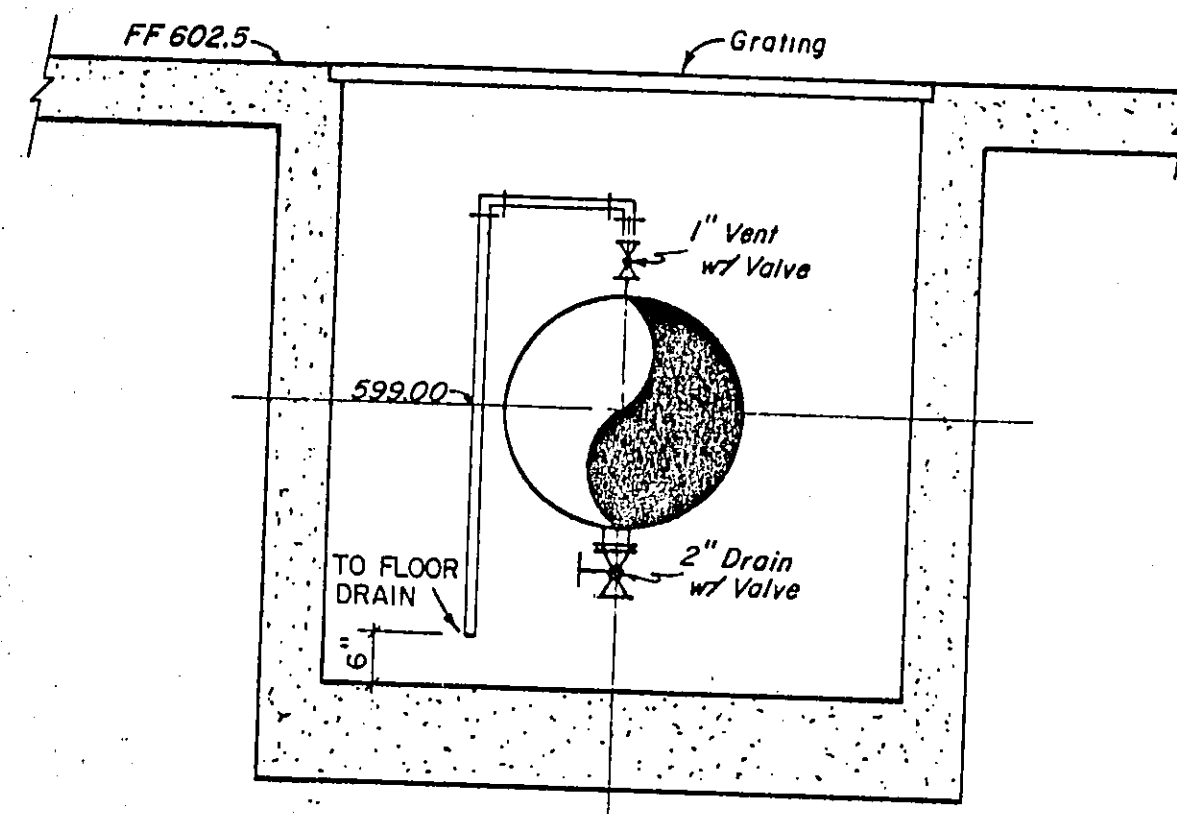
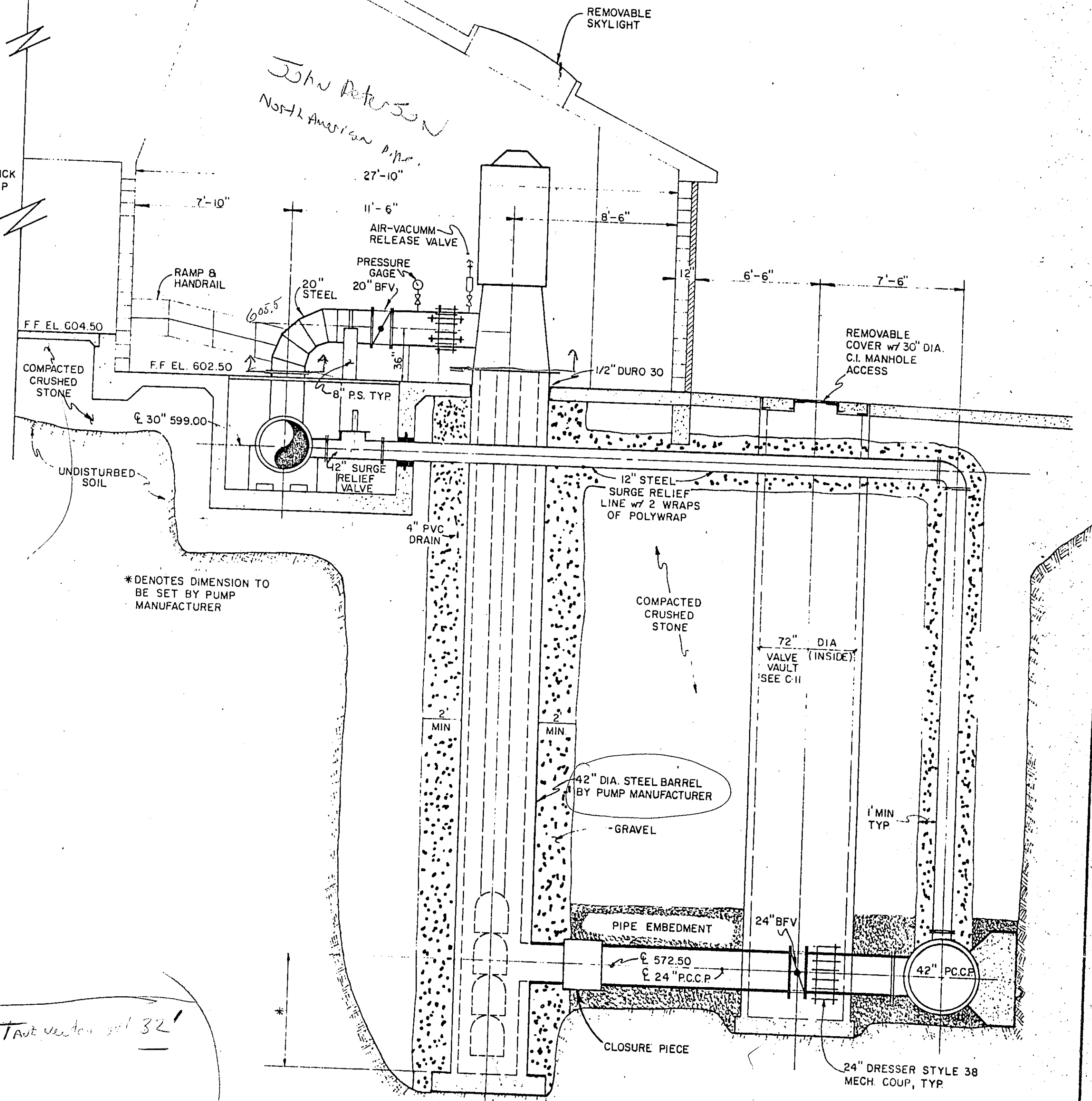
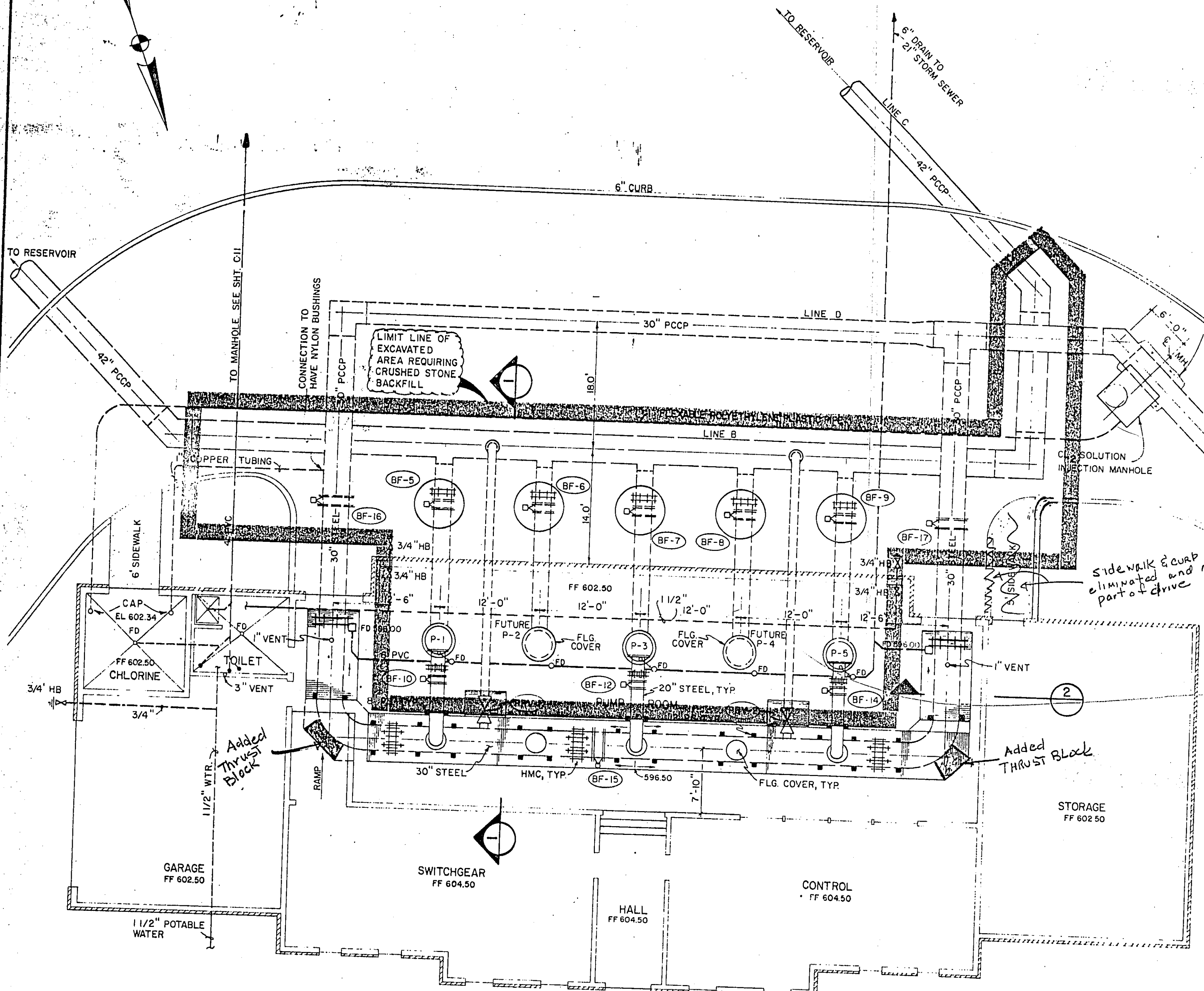
**110**

**SANITARY SEWER**  
**CELESTIAL ROAD PUMP STATION**  
**TOWN OF ADDISON**  
**DALLAS WATER UTILITY DEPT.**  
**CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
GINN, INC.	Dallas, TX	JAN 15, 87	H1=20'	RCH	4110	1960

2-14-87

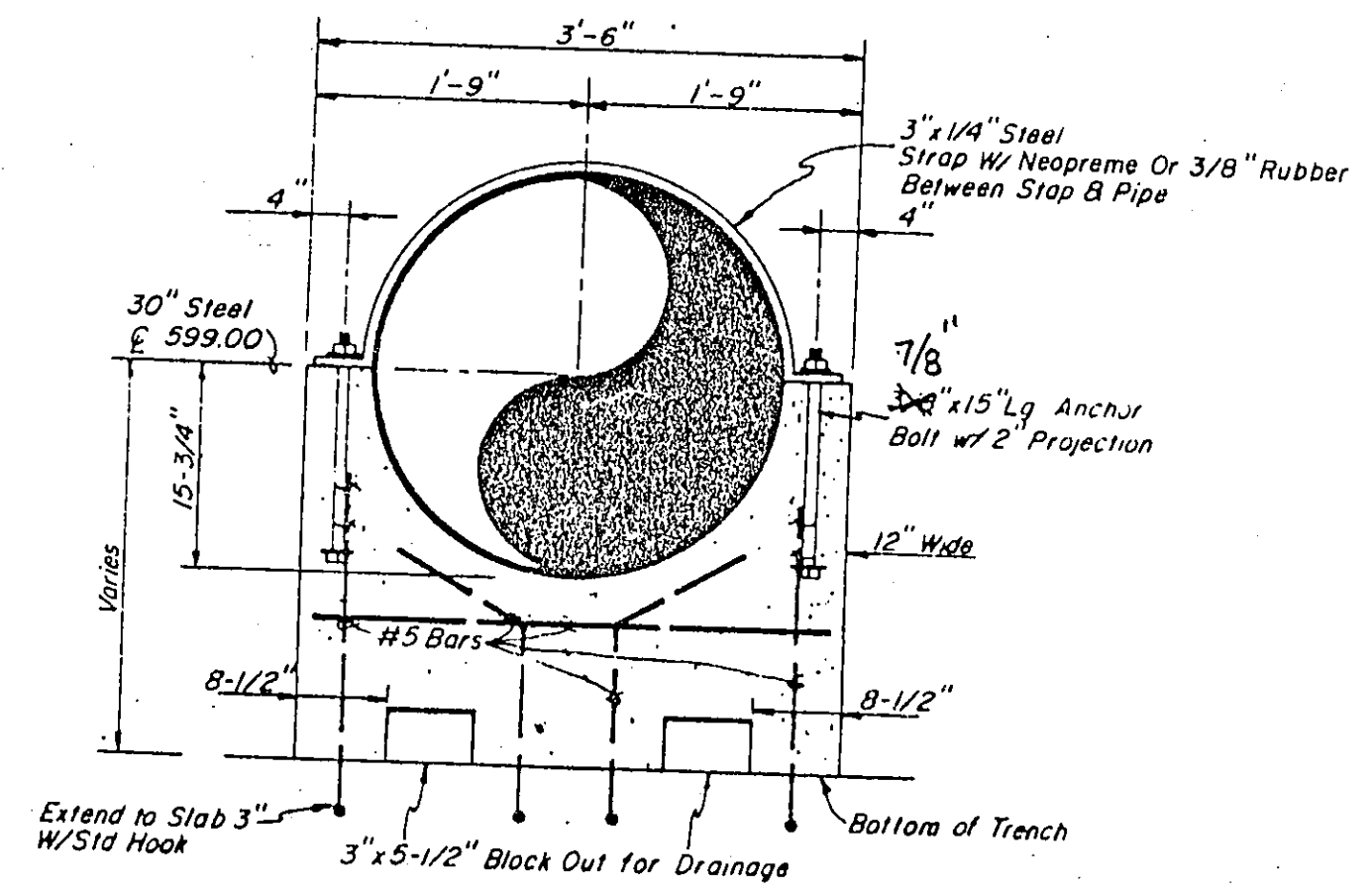




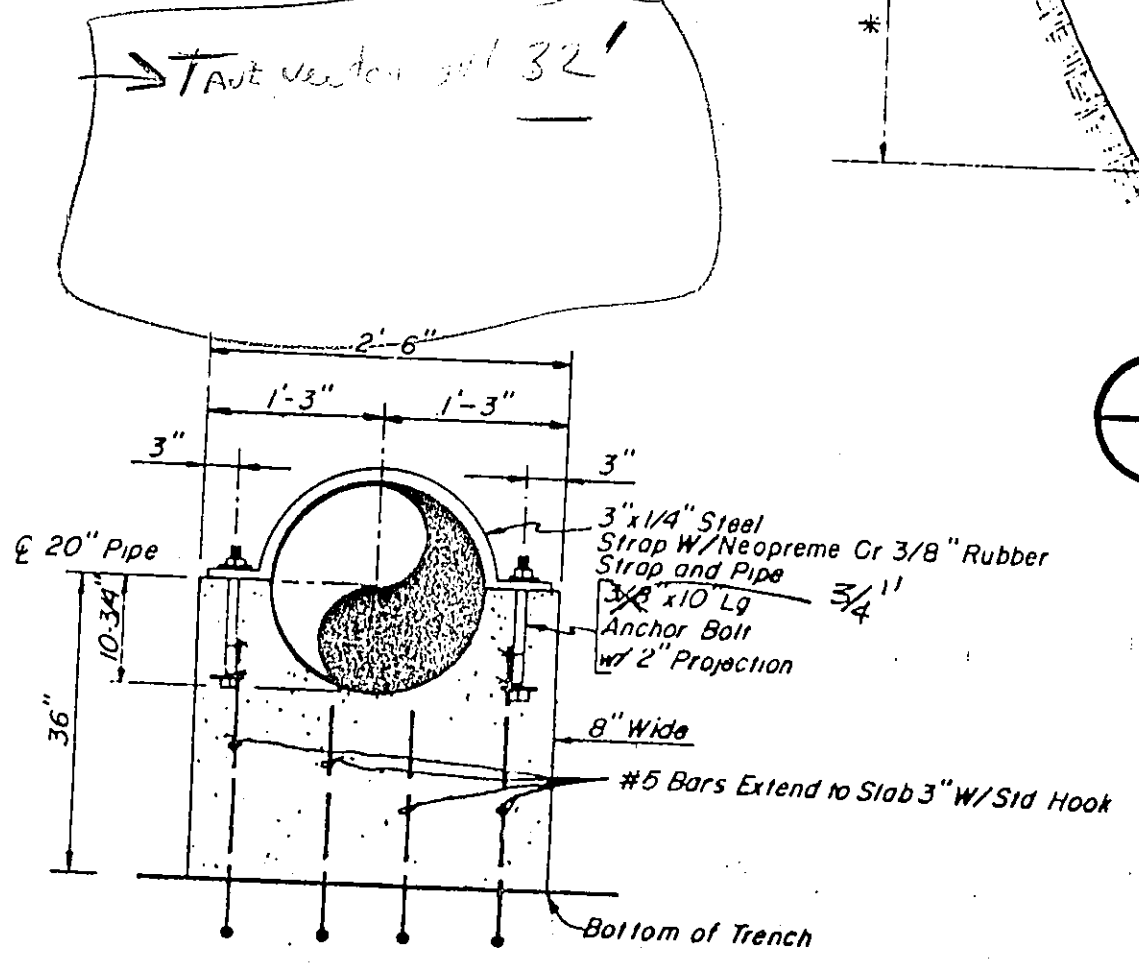
**2 SECTION**  
1/2" = 1'-0"

**PIPING PLAN**  
1/8" = 1'-0"

- NOTE:**
- FOR STRUCTURAL DETAILS OF PIPE CHANNEL SEE SHT. S-5
  - PS DENOTES PIPE SUPPORT
  - SEE A-1 FOR BUILDING DIMENSIONS
  - CHLORINE ROOM SHALL BE PIPED FOR FUTURE CHLORINE EQUIPMENT. EXTEND PIPE MIN. 2' ABOVE FLOOR



**PIPE SUPPORT - 30" PIPE**  
NTS



**PIPE SUPPORT - 20" PIPE**  
NTS

**1 SECTION**  
1/4" = 1'-0"

597 HWL  
574.42 FF  
GSR  
HWL = 622.92

No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>CELESTIAL ROAD PUMP STATION</b>			
<b>PIPING PLAN</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - RCH	Drawn - GAP	Date - JAN, 1987	Job No. - 217

Randall C. Held  
2-19-87

# FINISH SCHEDULE

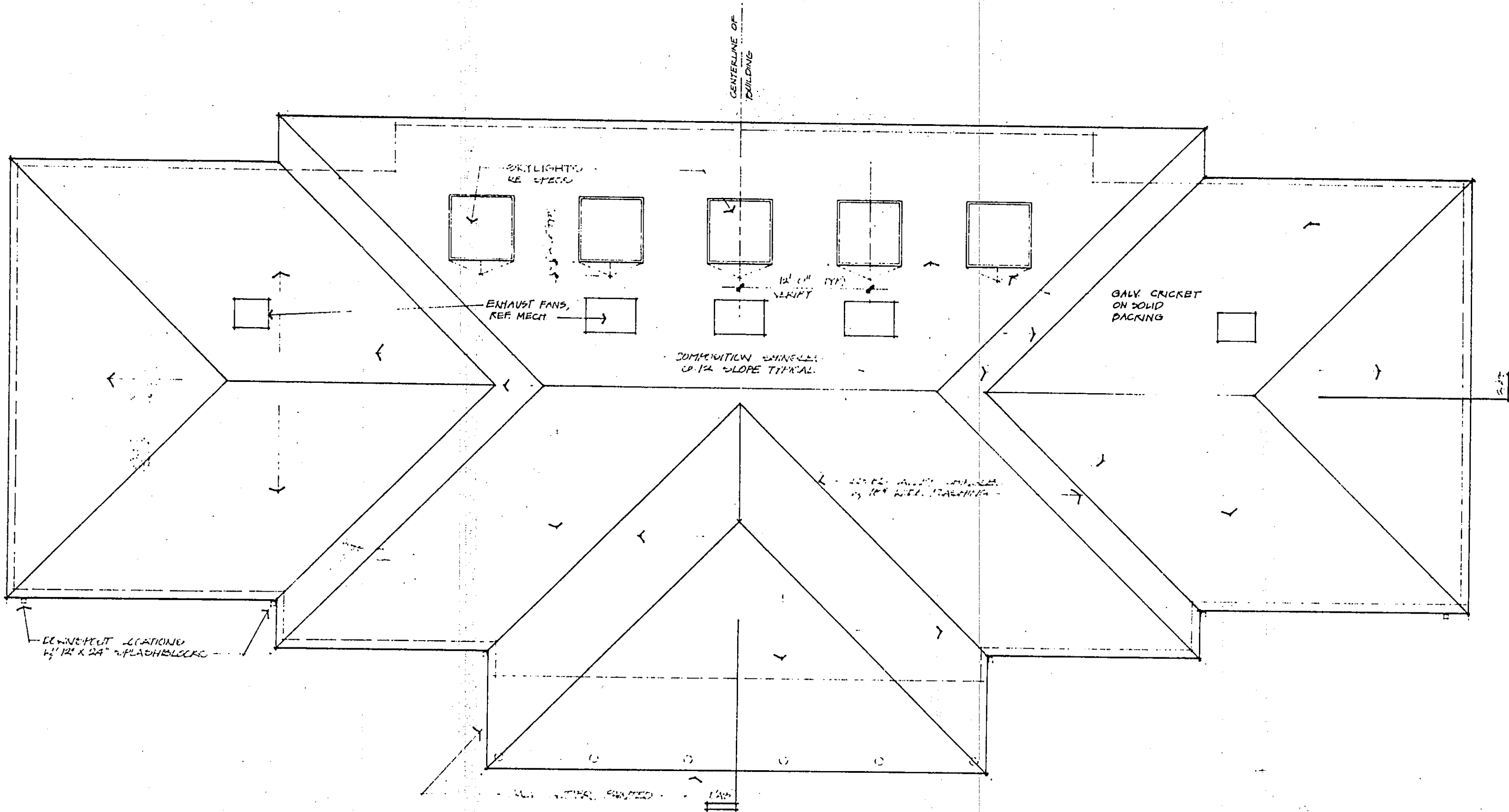
<b>FLOOR DESIGNATION</b>
1. CONCRETE, SEALED
2. VINYL COMPOSITION TILE
3. PLYWOOD FLOORING
<b>WALL DESIGNATION</b>
1. GYPSUM BE, ENAMEL PAINT
2. CMU, EPOXY PAINT
3. CMU, ENAMEL PAINT
4. GYPSUM SD, TAPE ONLY
<b>CEILING DESIGNATION</b>
1. EXPOSED STRUCTURE
2. GYPSUM SD, ENAMEL PAINT
3. GYPSUM SD, EPOXY PAINT

splat & drag finish

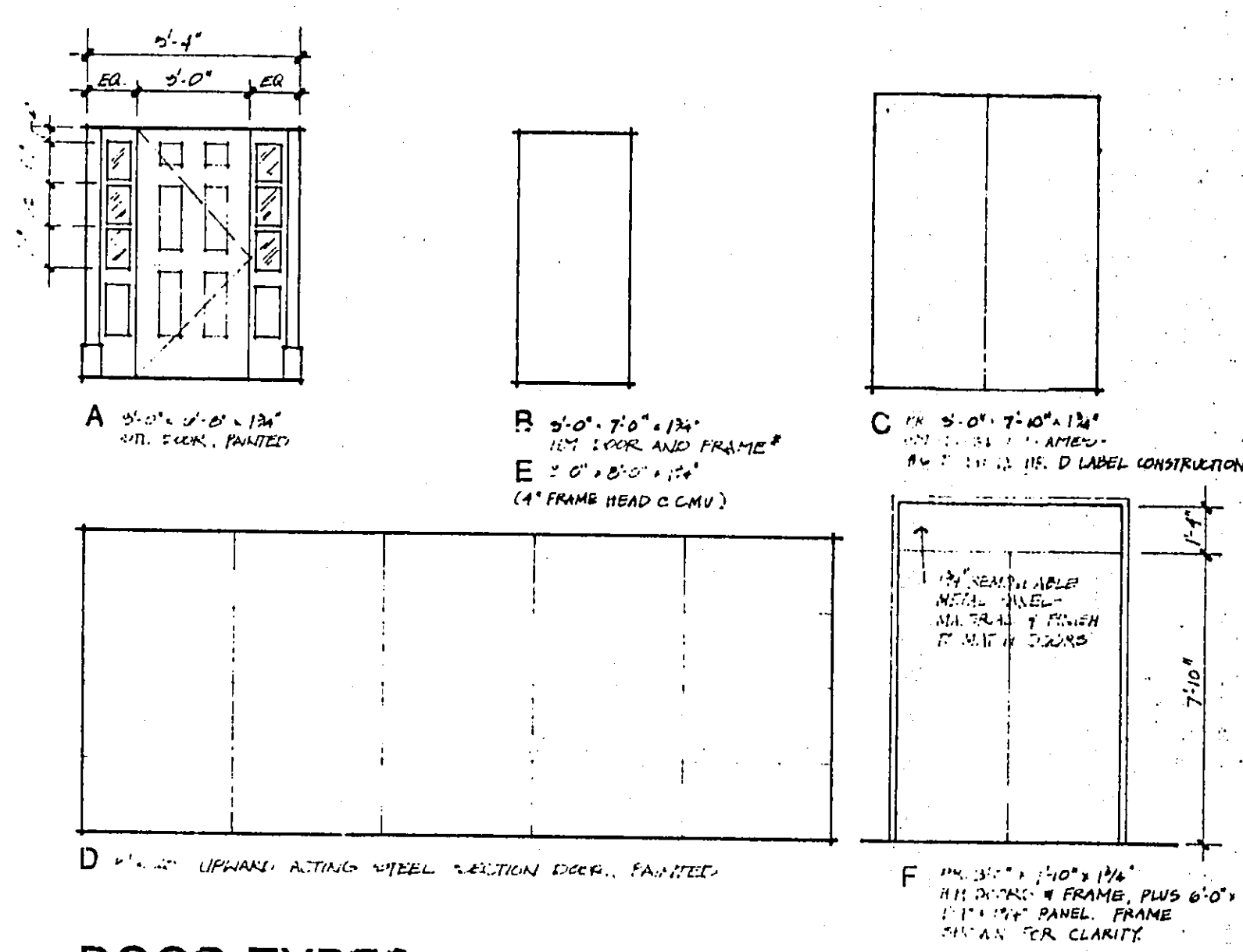
\* ALL 4" SUPER DOME NICHE & ALL 3" PD WALLS EXCEPT IN GARAGE & UPPER FLOOR.  
 \* ALUMINUM NO. 2 - GLAZED CMU & EXPOSED INTERIOR CMU SURFACES IN PUMP ROOM ONLY.

## NOTES

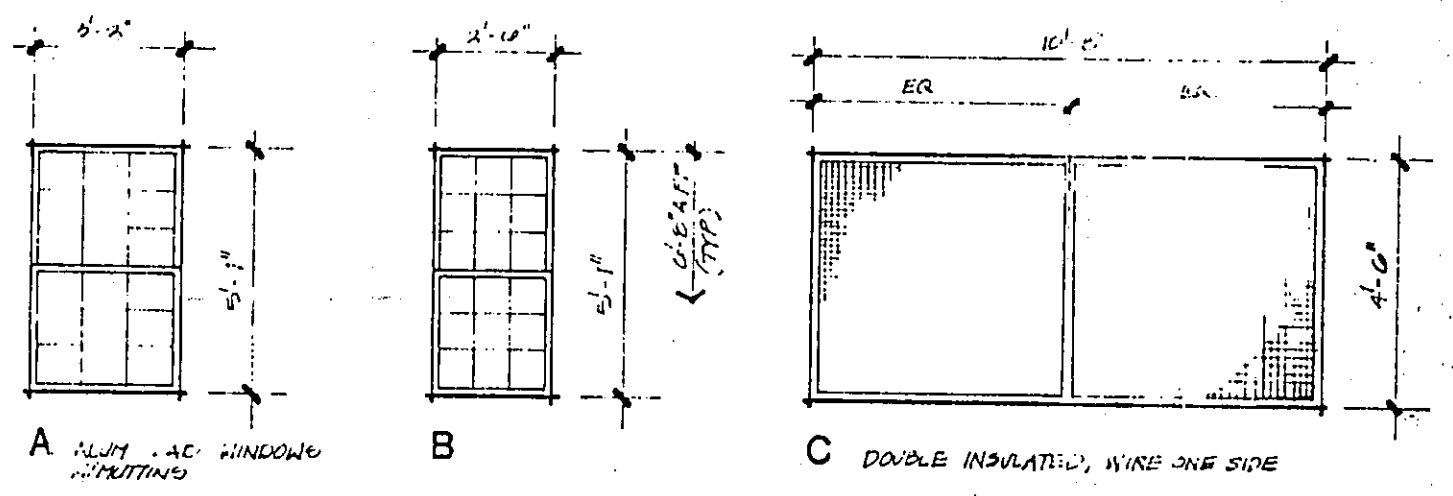
- ALL DIMENSIONS TO FACE OF MASONRY & FACE OF WOOD FRAMING UNLESS NOTED OTHERWISE.
- ALL EXPOSED VERTICAL OUTSIDE CORNERS OF C.M.U. TO BE BULLNOSE.
- CONTRACTOR TO PROVIDE & INSTALL SPECIAL BLOCKS AS REQ'D TO CONCEAL STEEL COLS, LINTEL BLOCKS, CONTROL JOINT BLOCK, BOND BEAM BLOCK, FLASHING BLOCK, ETC.
- BENCH TO DB 2-2x2 REDWOOD SFS, MOUNTED SECURELY TO FLOOR W/ 2-3/8 GALV STEEL COLS (PAINTED). TRIM & BOLT HEAVILY 42" x 1 1/2" x 1 1/2" CENTER ON LOCKERS.
- JOIN DIFF. FLOOR MATERIALS DIRECTLY UNDER CLOSED DOORS. TRIM W/ APPROPRIATE EDGE SINKS, NOSING, ETC.
- DRDG. AREA INCLUDING GARAGE, EXCLUDING UPPER FLOOR = 5,165 SF.
- BRICK PATTERN TO MATCH FACE BRICK. 8" DASH NR. 0 EDGE OF PORCH. TOP PLUMB W/ LEVEL PORCH. SQUARE PATTERNS CENTERED UNDER EACH COL. SYMMETRICAL BOTH SIDES OF PORCH. PAPER TRENDS & RISERS AS INDICATED. MINIMIZE CUTTING. RECESS FRONT FACE OF PORCH 4" TO DEFINE COL. SYMMETRICAL AS INDICATED. NO TILES IN BRICK TO SHOW.



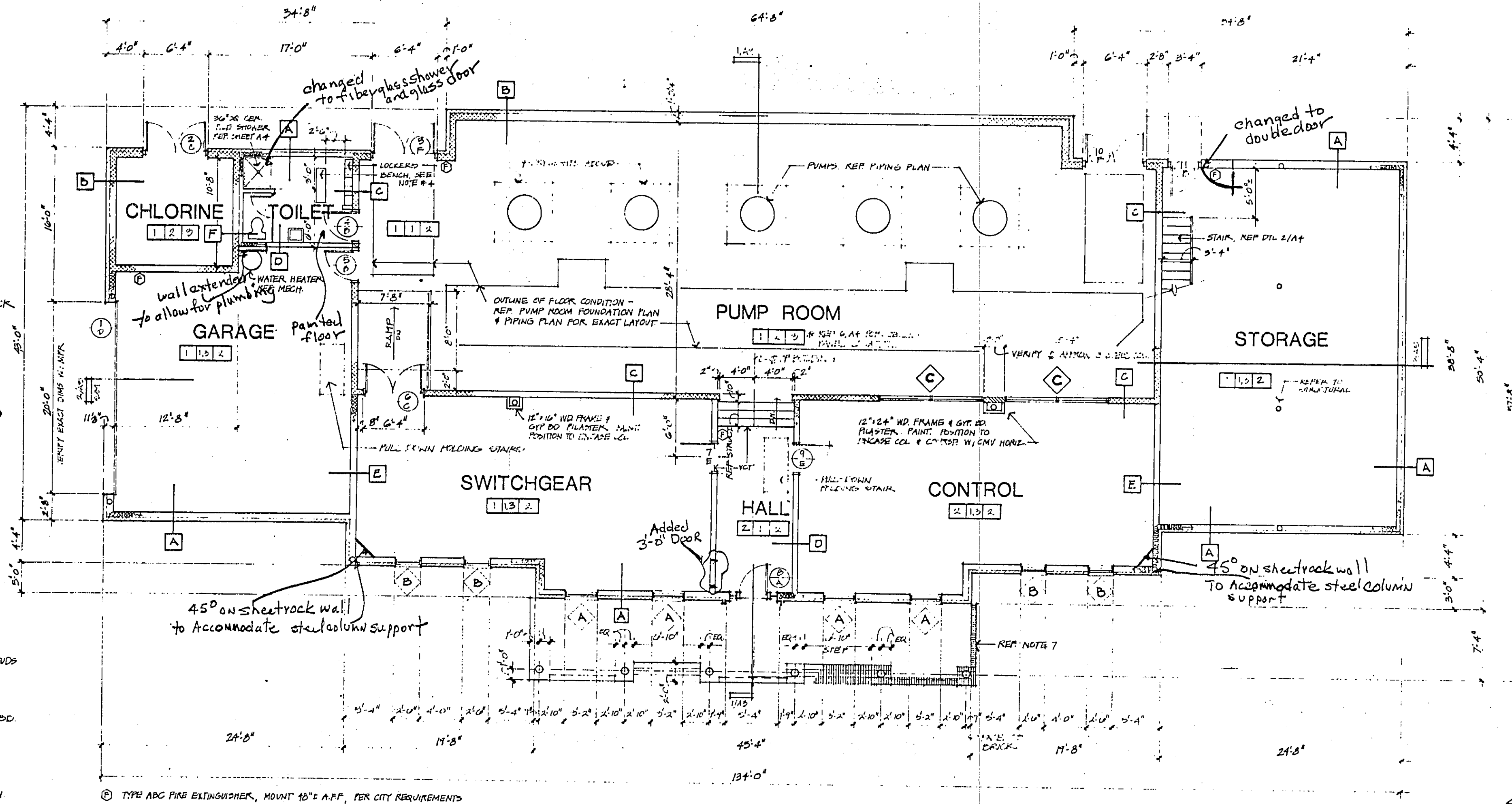
ROOF PLAN  
1/8" = 1'-0"



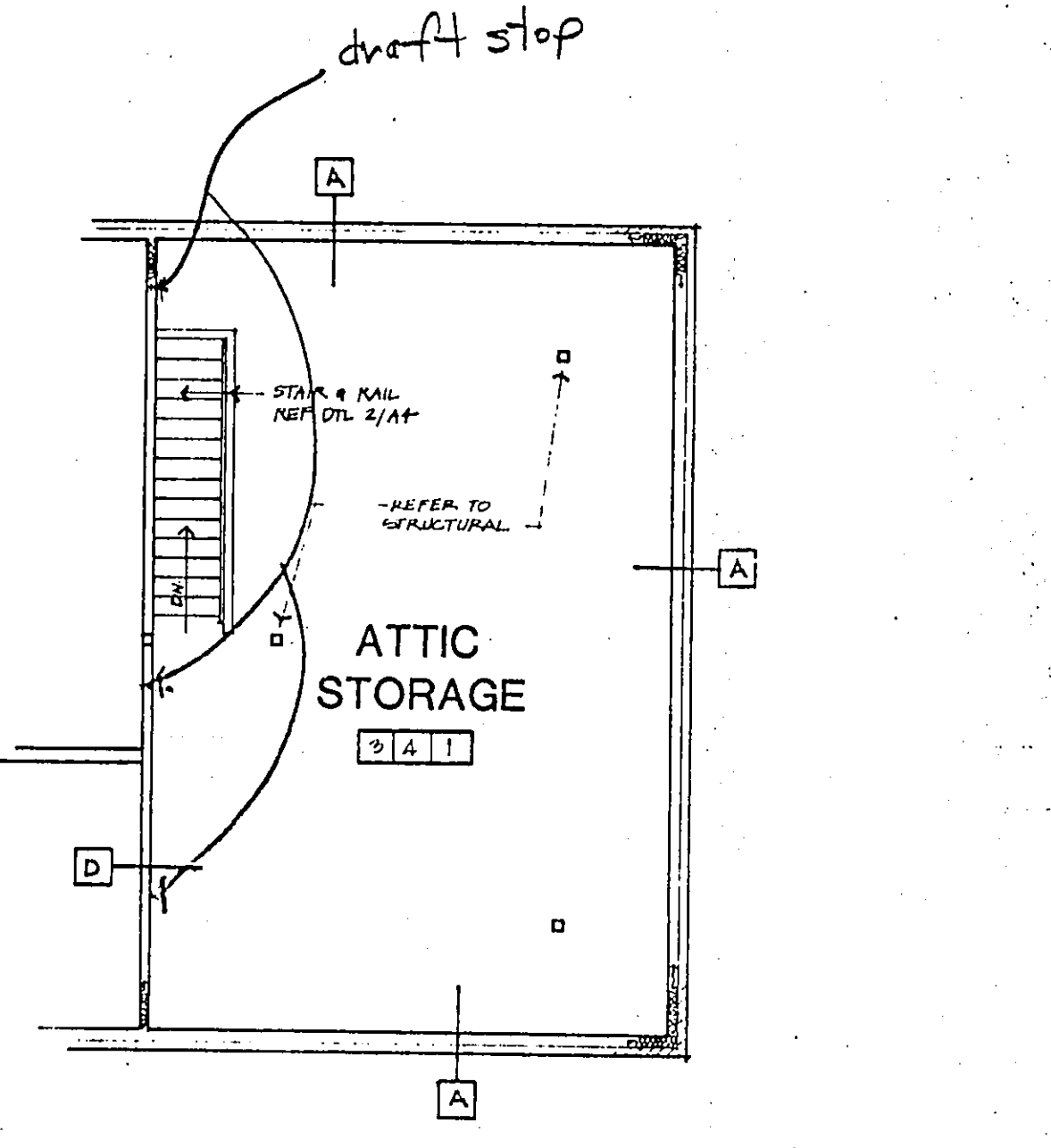
DOOR TYPES  
1/4" = 1'-0"



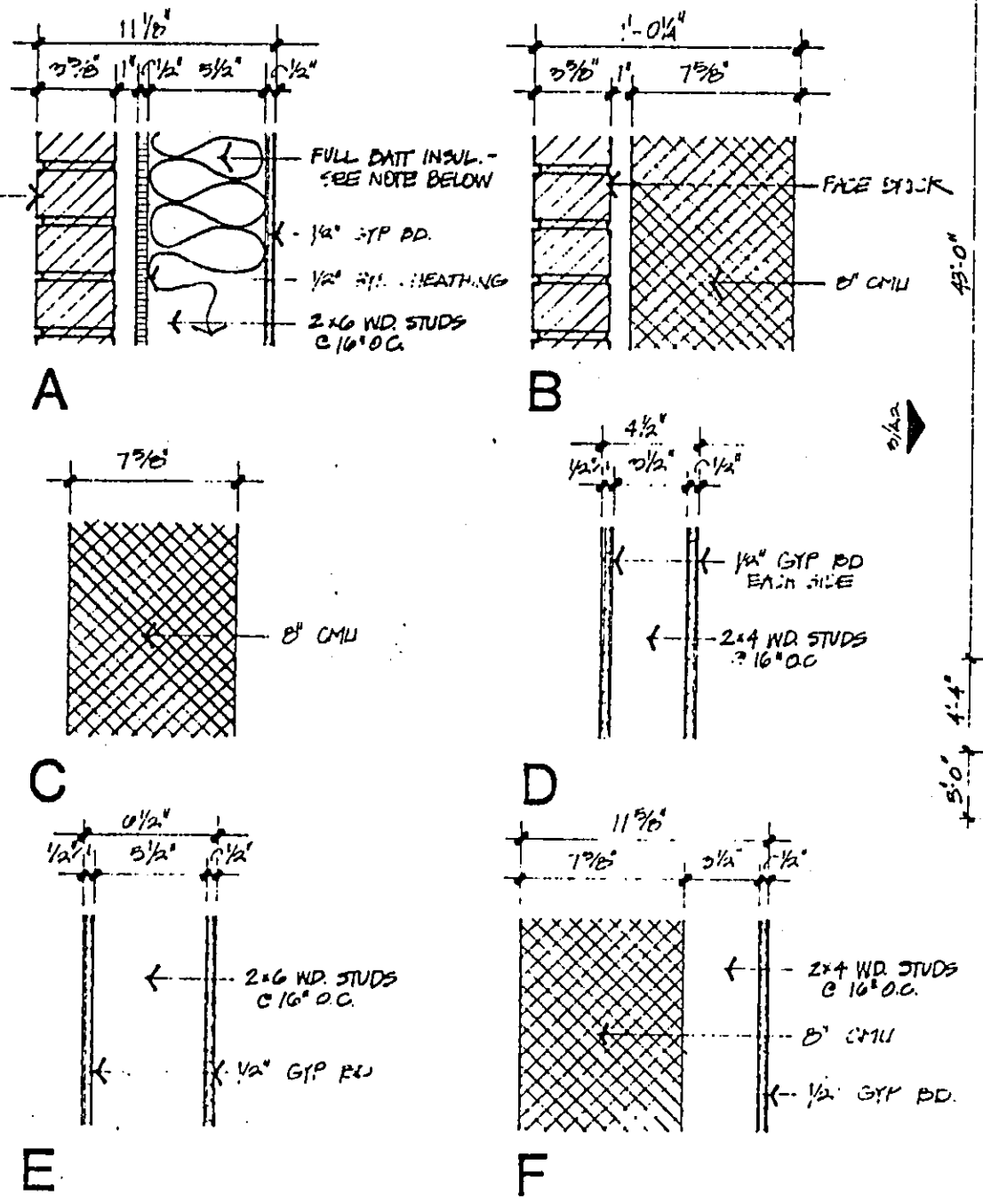
WINDOW TYPES  
1/8" = 1'-0"



FLOOR PLAN  
1/8" = 1'-0"



UPPER LEVEL PARTIAL PLAN  
1/4" = 1'-0"

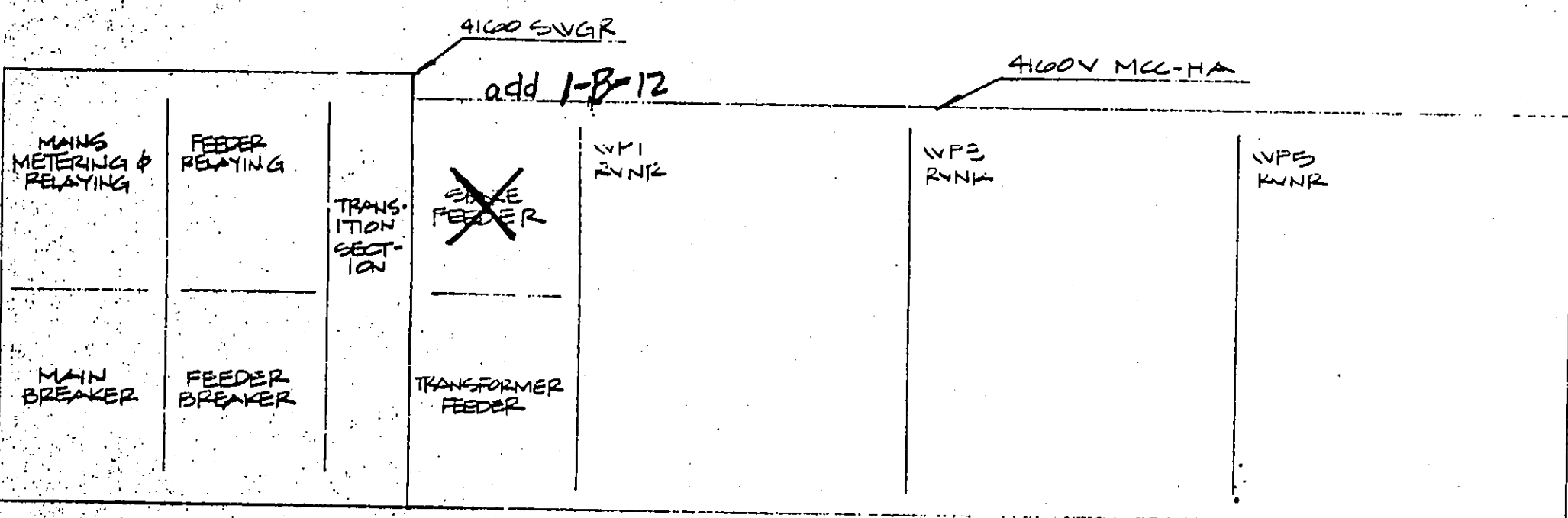
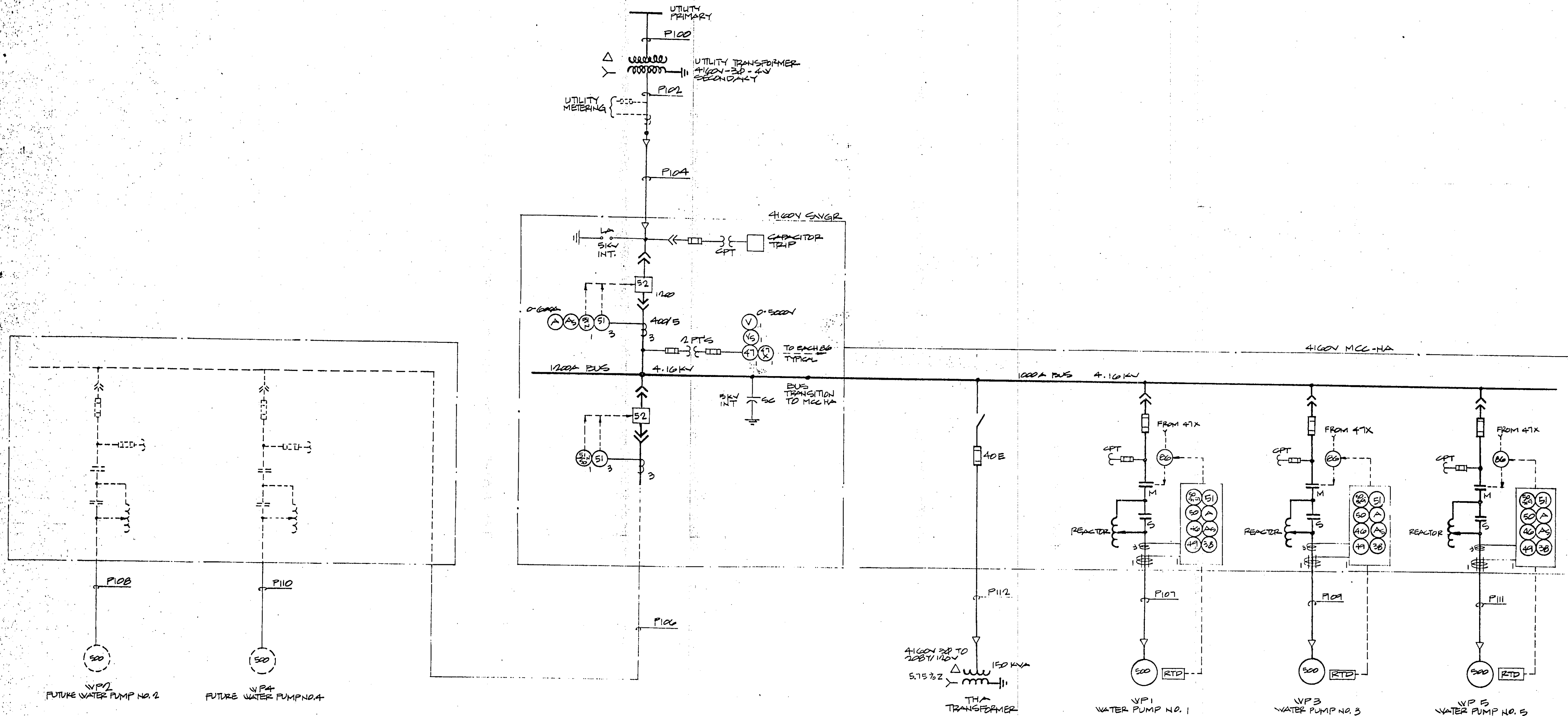


WALL TYPES  
SCALE: 1/2" = 1'-0"

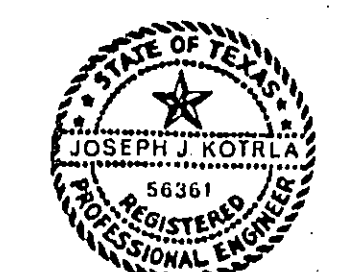
No	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
Architectural Consultants: DILLARD ARCHITECTS INC.		FLOOR PLAN DOORS, WINDOWS, PARTITIONS ROOF PLAN	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed -	Drawn - D.A.D.	Date - JANUARY, 1987	Job No. - 217
Approved -	Checked -	Scale -	Sheet A1 OF







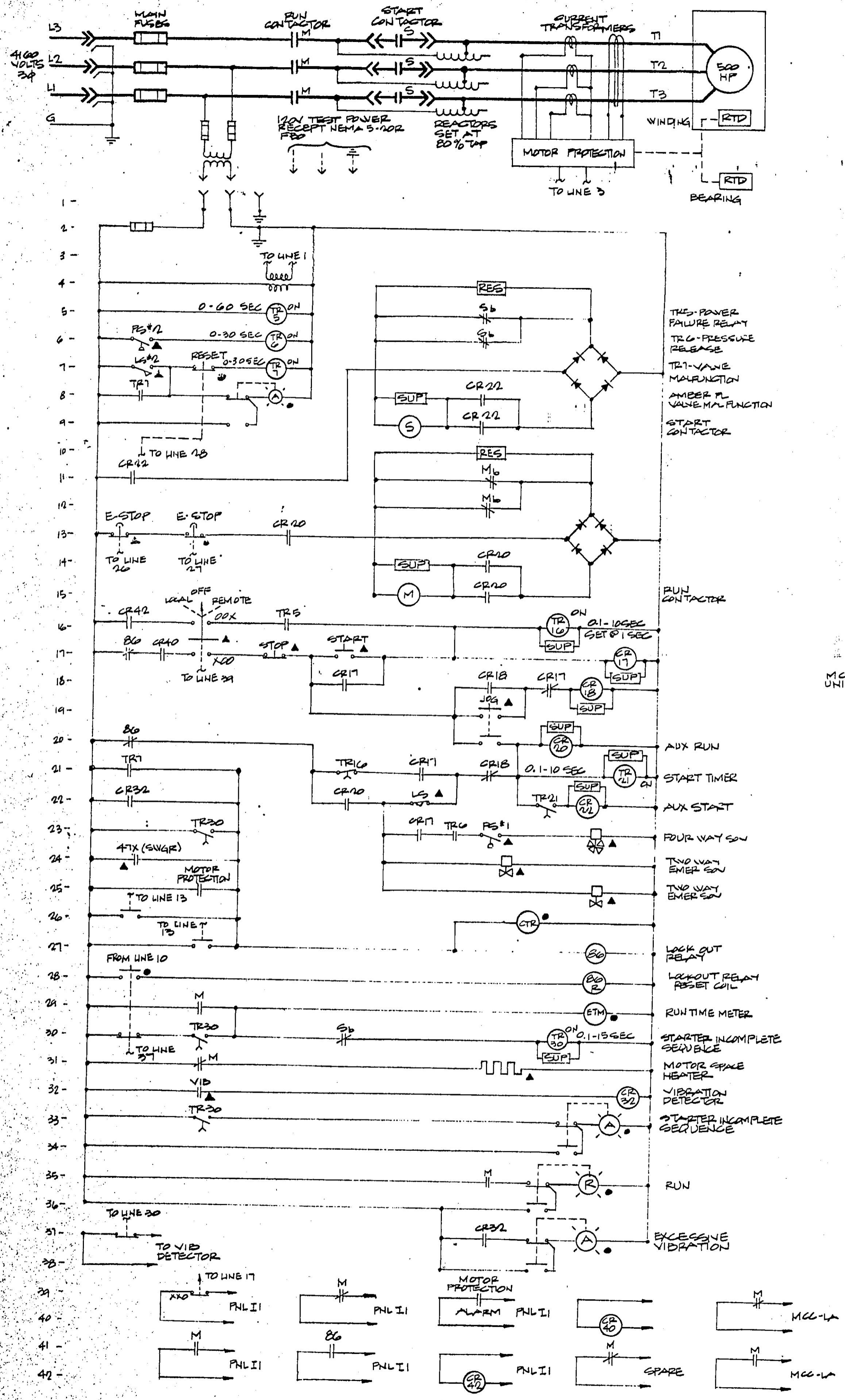
ELEVATION-4160V SWGR AND MCC-HA



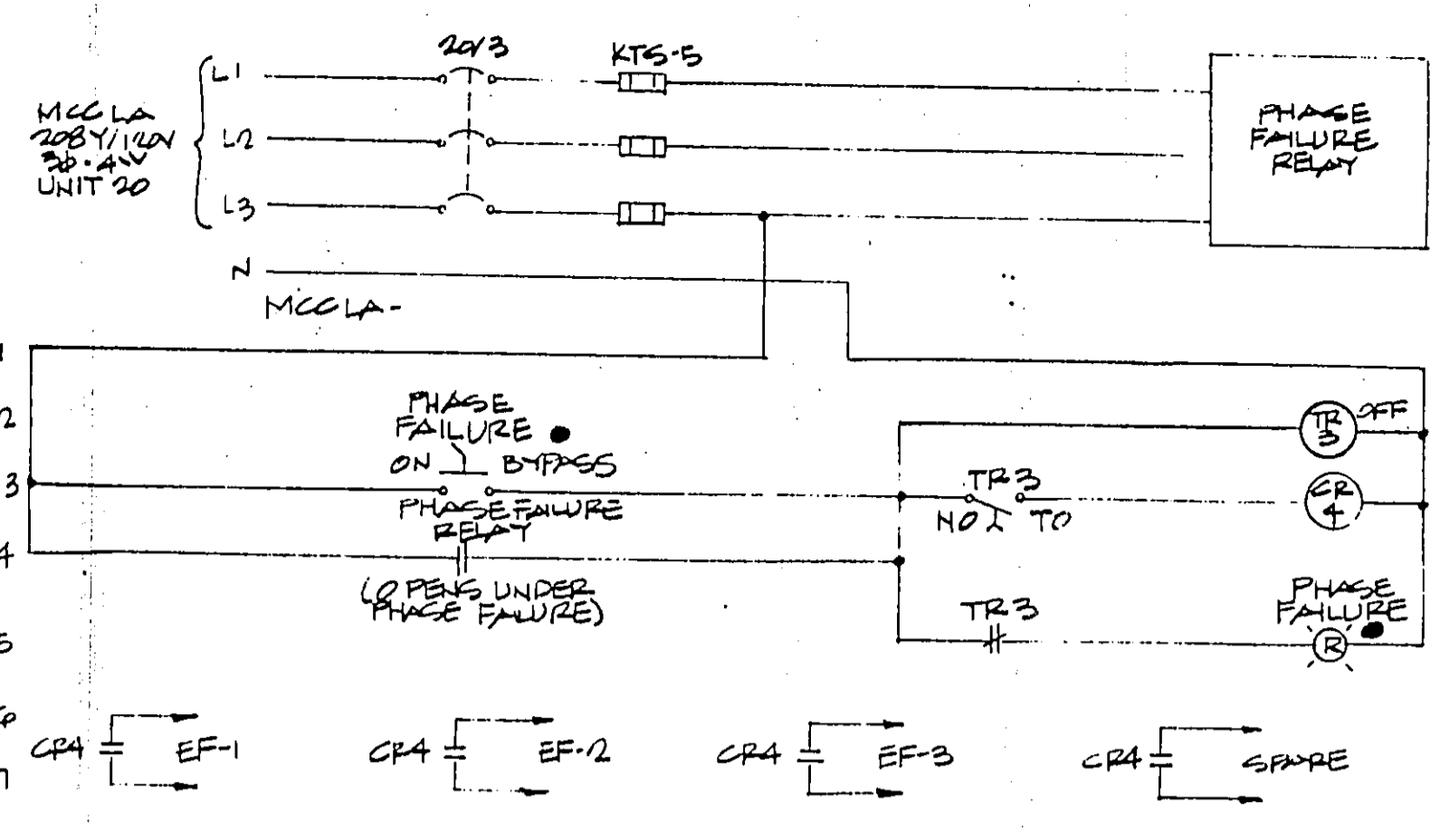
Joseph J. Kotrla  
2-18-87

No	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. MCCREARY & ASSOCIATES CONSULTING ENGINEERS SUITE 217 5200 LEW FRESHWAY DALLAS, TEXAS 75240		ELECTRICAL 4160V ONE LINE DIAGRAM	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet E3 of E12

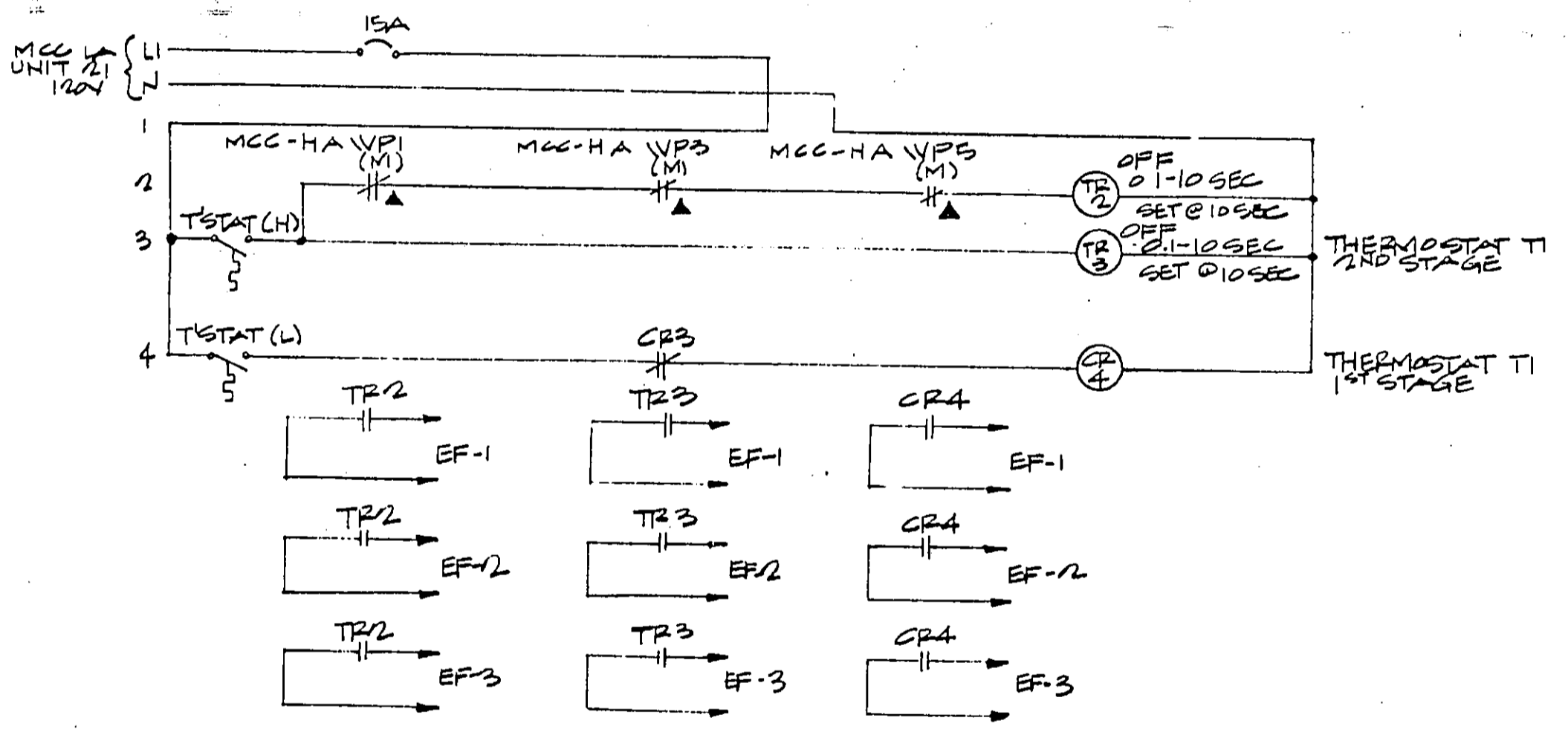




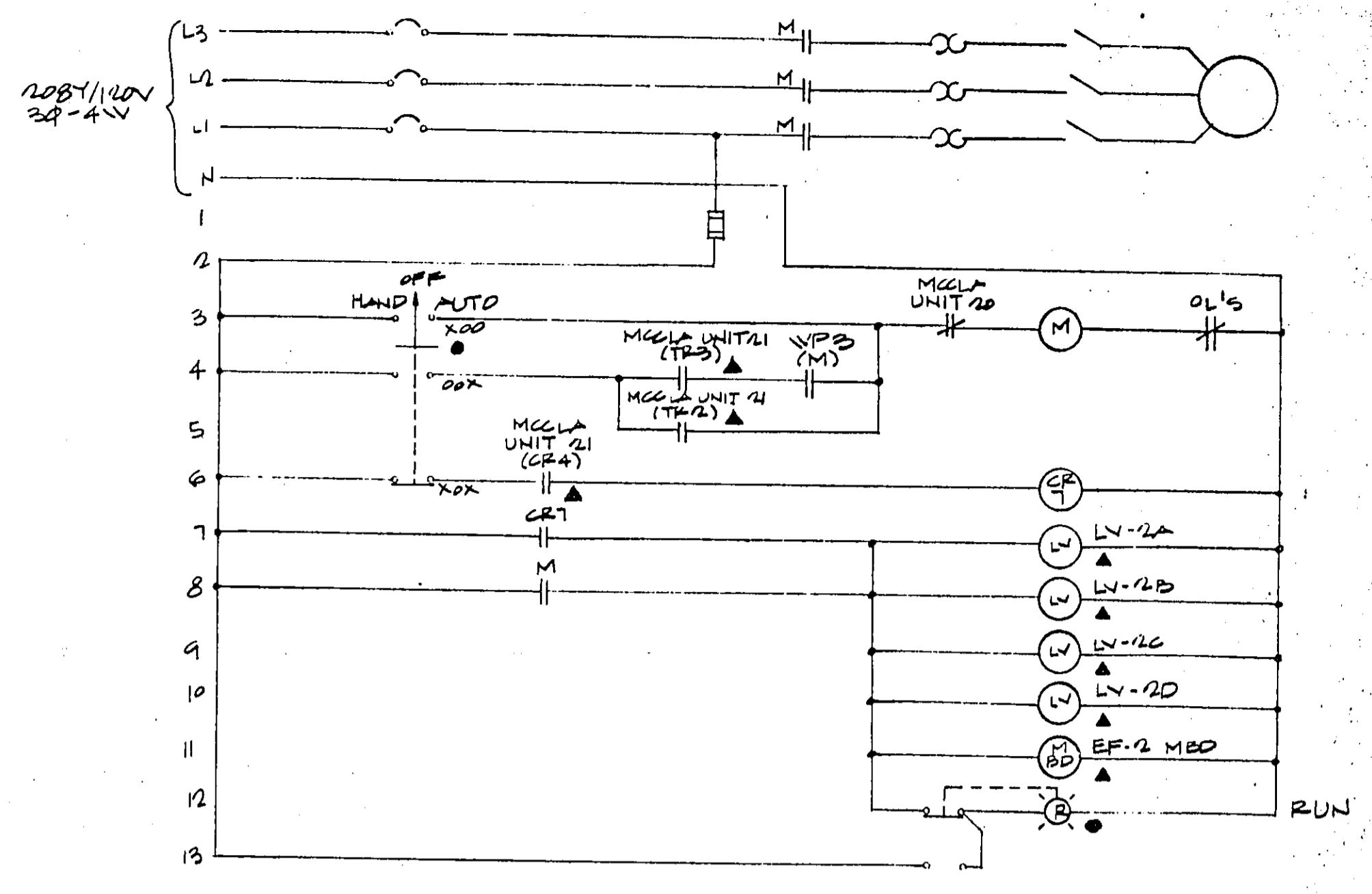
1 CONTROL SCHEMATIC-WP1, WP2, WP3



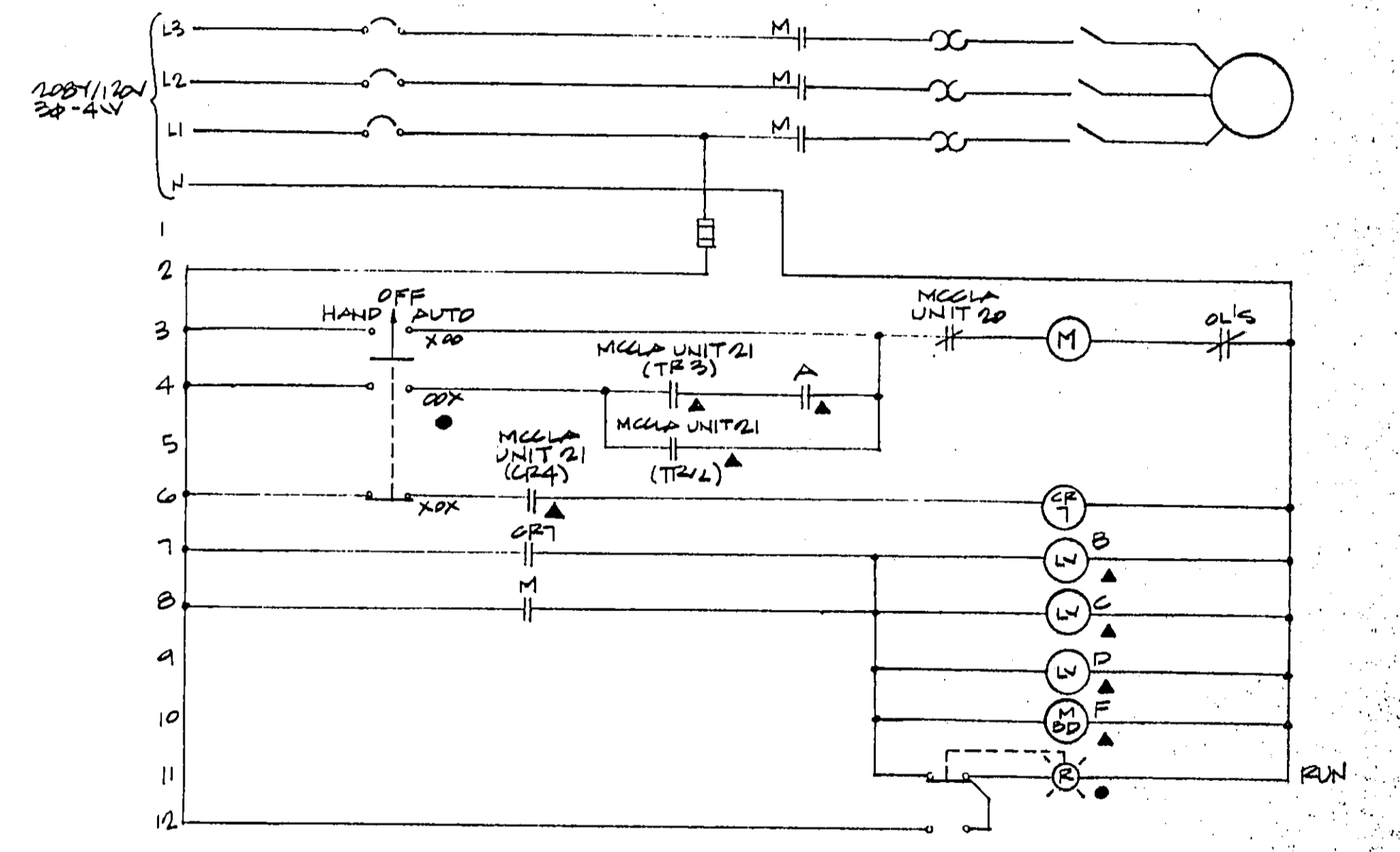
2 CONTROL SCHEMATIC-PHASE FAILURE RELAY



3 CONTROL SCHEMATIC-PUMP ROOM VENTILATION CONTROL



4 CONTROL SCHEMATIC-EF-2



5 CONTROL SCHEMATIC-EF-1 & EF-3

EMERGENCY	A	B	C	D	F
EF-1	VPI (M)	LW-1A	LW-1B	LW-1C	EF1-MBD
EF-3	VPS (M)	LW-3A	LW-3B	LW-3C	EF3-MBD



No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. MACCREARY & ASSOCIATES CONSULTING ENGINEERS SUITE 217 8200 LBJ FRYWAY DALLAS, TEXAS 75240		ELECTRICAL CONTROL SCHEMATICS	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet E3 of E12



**LEGEND-ONE LINE OR SCHEMATIC**

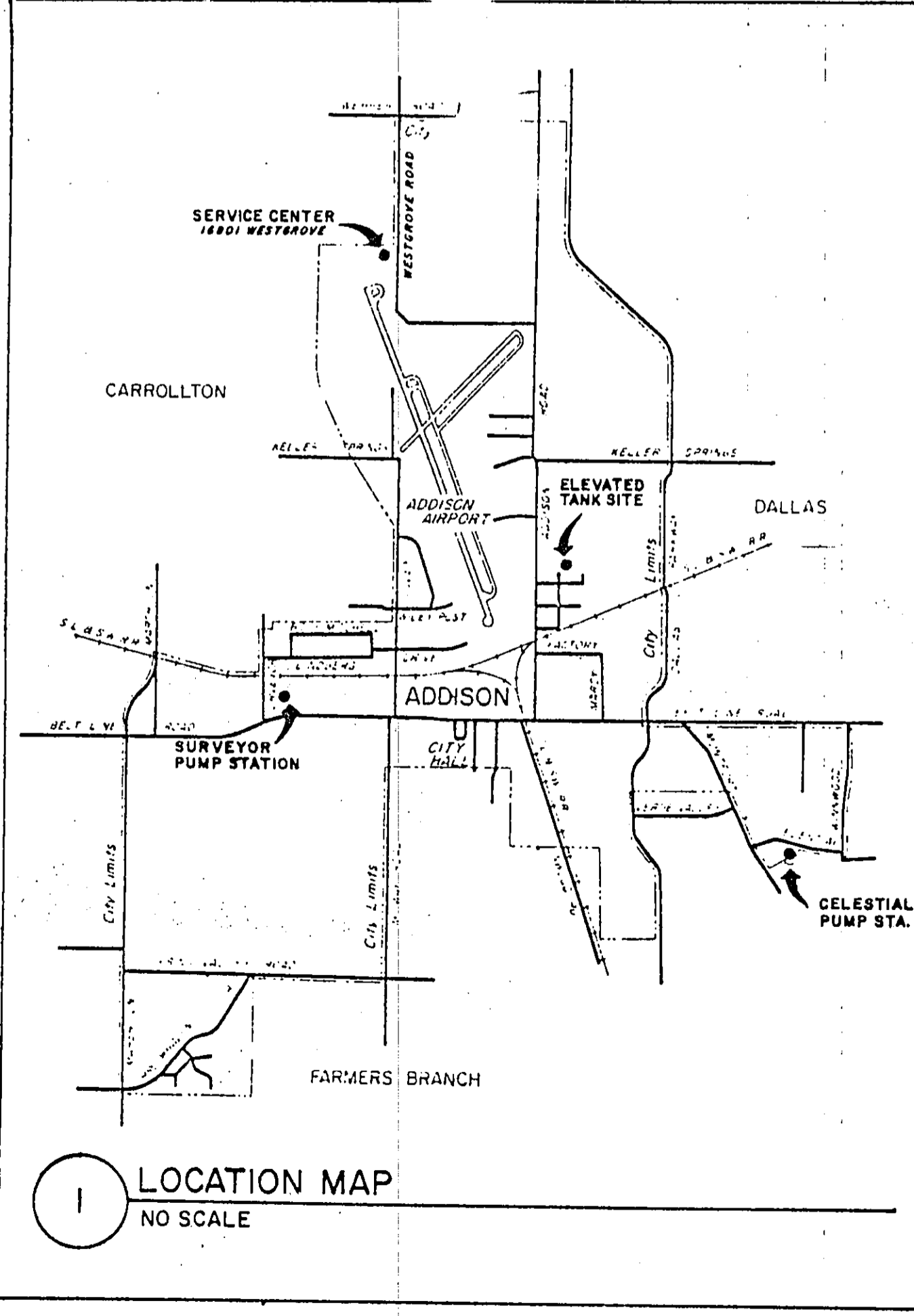
	POWER TRANSFORMER		REACTOR		MOMENTARY PUSHBUTTON NORMALLY CLOSED		LIGHTNING ARRESTER: STA-STATION GRADE INT-INTERMEDIATE GRADE DIST-DISTRIBUTION GRADE
	MEDIUM VOLTAGE CABLE TERMINATION		LOW VOLTAGE CB AT - AMP TRIP AF - AMP FRAME		MAINTAINED PUSHBUTTON WITH MUSHROOM HEAD - PULL TO RESET		SURGE CAPACITOR: INT-INTERMEDIATE GRADE DIST-DISTRIBUTION GRADE
	DRAWOUT EQUIPMENT OR DEVICE		MOTOR CIRCUIT PROTECTOR - NUMBER DENOTES CONTINUOUS CURRENT RATING		SELECTOR SWITCH - TWO POSITION		PROTECTIVE RELAY - NUMBER INDICATES DEVICE DESIGNATION
	SWITCH - RATINGS AS INDICATED		RELAY: CR - CONTROL RELAY TR - TIMING RELAY		SELECTOR SWITCH - THREE POSITION		METERING DEVICE: V - VOLTMETER A - AMPMETER
	MEDIUM VOLTAGE POWER CIRCUIT BREAKER		CONDUIT		FLOW SWITCH		RESISTOR OR IMPEDANCE
	CURRENT TRANSFORMER		ELAPSED TIME		LIMIT SWITCH		KEY INTERLOCK
	ZERO SEQUENCE CURRENT TRANSFORMER		CONDUIT ID NUMBL. SCHEDULE		TEMPERATURE SWITCH		CONTACTOR - CURRENT RATING AS INDICATED
	TRANSFORMER: PT - POTENTIAL OPT - CONTROL POWER		FUSE - RATINGS AS INDICATED		PRESSURE SWITCH		MAGNETIC STARTER - NEMA SIZE INDICATED
	TRANSFORMER CONNECTION TYPE - DELTA/WYE SHOWN		LOW VOLTAGE FUSED SWITCH: AT - FUSE SIZE AF - MAX SWITCH RATING		LEVEL SWITCH		OVERLOAD ELEMENT
	GROUND		MOMENTARY PUSHBUTTON NORMALLY OPEN		REMOTE DEVICE		
			MCC DOOR MOUNTED DEVICE				

**ABBREVIATIONS**

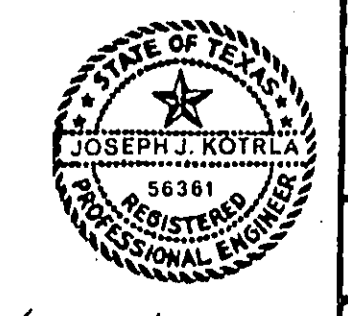
AC	ALTERNATING CURRENT	ICTO	INSTANT CLOSE, TIMED OPEN	VBS	VIBRATION SWITCH OR DETECTOR
AF	ABOVE FINISHED FLOOR	ITR	INDICATE TOTALIZE RECORD	V	VOLTS
AG	ABOVE GRADE	LA	LIGHTNING ARRESTER	WP	WEATHER PROOF
ALUM	ALUMINUM	LLCO	LOW LEVEL CUT OFF	XFER	TRANSFER
AMP	AMPERE	LTF	LIQUID TIGHT FLEXIBLE CONDUIT	XFMR	TRANSFORMER
ASC	ALUMINUM SLOTTED CHANNEL	LTS	LIGHT	XP	EXPLOSION PROOF
ATS	AUTOMATIC TRANSFER SWITCH	LS	LIMIT SWITCH	2S2W	TWO SPEED TWO WINDING
AUTO	AUTOMATIC	MHC	MOTORIZED BACKDRAFT DAMPER	Z	IMPEDANCE
AUX.X	AUXILIARY	MCC	MOTOR CONTROL CENTER	JB	JUNCTION BOX
AWG	AMERICAN WIRE GAUGE	MCP	MOTOR CIRCUIT PROTECTOR	JTB	JUNCTION BOX W/TERMINALS
BFP	BLOWN FUSE PROTECTION	MFR	MANUFACTURER		
BRG	BEARING	MH	MANHOLE		
BRKT	BRACKET	MIV	MOTORIZED INTAKE VENT		
CONC	CONCRETE	MLO	MAIN LUGS ONLY		
C, COND	CONDUIT	MTD	MOUNTED		
CB	CIRCUIT BREAKER	MTR	MOTOR		
CNT	CIRCUIT	MV	MERCURY VAPOR		
CLF	CURRENT LIMITING FUSE	NC	NORMALLY CLOSED		
CP	CONTROL POWER TRANSFER	NO	NORMALLY OPEN		
CR	CONTROL RELAY	NOTC	NORMALLY OPEN TIMED CLOSED		
CS	CONTROL SWITCH OR CONTROL STATION	N/P	NAMEPLATE		
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE		
CU	COPPER	OC	ON CENTER		
DI	DOOR INTERLOCK	OLS	OVERLOADS		
DN	DOWN	PC	PHOTO CELL		
DES	DRILLED EXPANSION SHIELD	PCC	PALSTIC COATED RIGID STEEL CONDUIT		
DPDT	DOUBLE-POLE DOUBLE-THROW SWITCH	PMT	PAD MOUNTED TRANSFORMER		
EC	EMPTY CONDUIT	PNL	PANEL		
ELEV	ELEVATION	PB	PUSHBUTTON		
ETH	ELAPSED TIME METER	PHI	PRIMARY		
EOEH	ELECTRICALLY OPERATED ELECTRICALLY HELD	PT	POTENTIAL TRANSFORMER		
EOMH	ELECTRICALLY OPERATED MECHANICALLY HELD	PVC	POLYVINYL CHLORIDE		
EP	EXHAUST FAN	QTY	QUANTITY		
EXP	EXPANSION FITTINGS	RECPT	RECEPTACLE		
EXOW	EXOTHERMIC WELD	RPD	REMOTE PILOT DEVICE		
FBO	FURNISHED BY OTHERS	RPO	REMOTE PILOT OPERATOR		
FDR	FEEDER	RTD	RESISTANCE TEMPERATURE DETECTOR		
FLA	FULL LOAD AMPERAGE	RVNR	REDUCED VOLTAGE NON-REVERSING		
FVNR	FULL VOLTAGE NON-REVERSING	SC	SURGE CAPACITOR		
FU	FUSE	SCH	SCHEDULE		
G, GND	GROUND	SEC	SECONDS OR SECONDARY		
GEN	GENERATOR	SF	SUPPLY FAN		
GPCI	GROUND FAULT CIRCUIT INTERRUPTER	SH	SHIELDED		
GFP	GROUND FAULT PROTECTION	S/N	SOLID NEUTRAL		
GRS	GALVANIZED RIGID STEEL	SPDT	SINGLE-POLE DOUBLE THROW SWITCH		
HDG	HOT DIPPED GALVANIZED	STN STL	STAINLESS STEEL		
HDW	HARDWARE	SS	SAFETY SWITCH		
HH	HANDHOLE	SW	SWITCH		
HID	HIGH INTENSITY DISCHARGE LAMP	SWGR	SWITCHGEAR		
HPS	HIGH PRESSURE SODIUM	SZ	SIZE		
HOA	HAND-OFF-AUTOMATIC	TCIO	TIME CLOSE INSTANT OPEN		
HT	HEIGHT	TR	TIMING RELAY		
HTR	HEATER	TYP	TYPICAL		
HZ	HERTZ	UG	UNDERGROUND		
		UH	UNIT HEATER		

**LEGEND-PLAN VIEWS**

	SAFETY SWITCH OR DISCONNECT SWITCH		TERMINAL BOX		THREE-WAY SWITCH		INTERCOM
	COMBINATION MOTOR STARTER		CONDUIT RUN EXPOSED UNLESS OTHERWISE NOTED 2" 12, #12 G, 3/4" UNLESS OTHERWISE NOTED		FOUR-WAY SWITCH		HORN OR SPEAKER
	MOTOR STARTER		CONDUIT RUN UNDERGROUND OR IN SLAB OR CONCEALED		KEY-OPERATED SWITCH		FIRE ALARM PULL STATION
	CONTACTOR		CONDUIT TURNING DOWN OR AWAY FROM VIEWER		SWITCH AND PILOT LAMP		FIRE DETECTOR
	MOTOR - NUMBER INDICATES HORSEPOWER		CONDUIT TURNING UP OR TO VIEWER		MANUAL MOTOR STARTER WITH OVERLOADS		SMOKE DETECTOR
	JUNCTION BOX - CEILING MOUNTED		LIQUID TIGHT FLEXIBLE CONDUIT		DUPLEX RECEPTACLE 120V, 20A, NUMBER DENOTES CIRCUIT		FIRE ALARM HORN
	JUNCTION BOX - WALL MOUNTED		"TEE" CONDUIT FITTING		FLOOR DUPLEX RECEPTACLE OUTLET		SECTION DETAIL OR SECTION NO. ELECTRICAL SHEET NO.
	CEILING MOUNTED LIGHT FIXTURE - TYPE A, CONTROLLED BY SWITCH B		CONDUIT TO PANEL L1, CIRCUITS 1 AND 3, 2 # 12, # 12 G, 3/4" CONDUIT		FLOOR SPECIAL PURPOSE OUTLET		DETAIL REFERENCE SHEET NO. DETAIL NO.
	WALL MOUNTED LIGHT FIXTURE - TYPE A		SINGLE-POLE LIGHT SWITCH		SPECIAL RECEPTACLE NEMA DESIGNATION SHOWN		
	EMERGENCY LIGHT FIXTURE		DOUBLE-POLE LIGHT SWITCH		TELEPHONE OUTLET		



**LOCATION MAP**  
NO SCALE



No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. McCREARY & ASSOCIATES		CONSULTING ENGINEERS SUITE 217 8500 LBJ FREEWAY DALLAS, TEXAS 75241	ELECTRICAL LEGENDS
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet E1 of E12

*Handwritten signature and date: Fred J. Ginn 2-18-87*



CONDUIT AND CABLE SCHEDULE TOWN OF ADDISON - CELESTIAL RD PUMP STATION

TAG NO.	COND SIZE	CABLES # SIZE	GND	SOURCE	LOAD	REMARKS
P100	4"			TP&L	XFMR	EC FOR UTILITY PRI CABLES
P101	4"			TP&L	XFMR	EC FOR UTILITY PRI CABLES
P102	6"	3 #500	#1/0	XFMR	METER	SERVICE CABLES
P103	6"			XFMR	METER	EC FOR FUTURE USE
P104	5"	3 #500	#1/0	METER	SWGR	SERVICE
P105	5"			METER	SWGR	FUTURE
P106				SWGR	MCC-HB	NOT USED
P107	3"	3 #1	#4	MCC-HA	WP1	WATER PUMP NO.1
P108	3"			MCC-HB	WP2	FUTURE
P109	3"	3 #1	#4	MCC-HA	WP3	WATER PUMP NO.3
P110	3"			MCC-HB	WP4	FUTURE
P111	3"	3 #1	#4	MCC-HA	WP5	WATER PUMP NO.5
P112	3"	3 #1	#4	MCC-HA	THA	LOW VOLTAGE XFMR
P200	3"	8 #4/0	#2	THA	MCC-LA	2-4/0 PER PHASE, 2-4/0 NEUTRALS
P201	3/4"	2 #8	#10	MCC-LA	ACU	
P202	3/4"	2 #10	#10	MCC-LA	ACC	
P203	3/4"	3 #12	#12	MCC-LA	EF1/SS	
P204	3/4"	3 #12	#12	MCC-LA	EF2/SS	
P205	3/4"	3 #12	#12	MCC-LA	EF3/SS	
P206	3/4"	2 #12	#12	MCC-LA	EF6/SS	
P207	3/4"	3 #10	#10	MCC-LA	UH1/SS	
P208	3/4"	3 #10	#10	MCC-LA	UH2/SS	
P209	1"			MCC-LA		SPARE CONDUIT, STUB OUT AS SHOWN ON THE DRAWINGS
P210	3/4"	2 #10	#10	MCC-LA	JTB-C1	
P211	2"	4 #2	#6	MCC-LA	PNL-L1	
P212	3/4"	3 #10	#10	MCC-LA	UH4/SS	
P213	3/4"	3 #10	#10	MCC-LA	UH5/SS	
P214	3/4"	3 #10	#10	MCC-LA	UH6/SS	
P215	3/4"	3 #12	#12	MCC-LA	UH7/SS	
P216	3/4"	3 #12	#12	MCC-LA	UH8/SS	
P217	1"	3 #8	#8	MCC-LA	PNL-L2	
P218	3/4"	3 #10	#10	MCC-LA	UH3/SS	
P219	3/4"	2 #10	#10	MCC-LA	W/HTR	
P220	1"			PNL-L1	GSR	SPARE CONDUIT
P221	1"			PNL-L1	GSR	SPARE CONDUIT
P222	1"			MCC-LA	GSR	SPARE CONDUIT
P223	1"	5 #12	#12	PNL-L1	WGATE	
P224	1"	5 #12	#12	PNL-L1	EGATE	
C100	1-1/4"	40 #14	#10	PNL-I1	JTB-C1	SPARE CONDUIT
C101	1-1/4"	40 #14	#10	PNL-I1	JTB-C1	SPARE CONDUIT
C102	1-1/4"	40 #14	#10	PNL-I1	JTB-C1	SPARE CONDUIT
C107	1-1/4"	24 #14	#14	MCC-HA	WP1/CS	WATER PUMP NO.1
C108	1-1/4"	24 #14	#14	MCC-HB	WP2/CS	SPARE CONDUIT
C109	1-1/4"	24 #14	#14	MCC-HA	WP3/CS	WATER PUMP NO.3
C110	1-1/4"	24 #14	#14	MCC-HB	WP4/CS	SPARE CONDUIT
C111	1-1/4"	24 #14	#14	MCC-HA	WP5/CS	WATER PUMP NO.5
C112	3/4"	4 #14	#14	MCC-HA	MCC-LA	
C113	3/4"	4 #14	#14	MCC-HA	MCC-LA	
C114	3/4"	4 #14	#14	MCC-HA	MCC-LA	
C115	3/4"	4 #14	#14	MCC-LA	JTB-C1	CHLORINE ALARM CKT
C117	3/4"	10 #14	#14	WP1/CS	WP1/VCP	VCP = VALVE CONTROL PNL
C118	3/4"			WP2/CS	WP2/VCP	STUB UP AT LOCATION SHOWN ON THE DRAWINGS
C119	3/4"	10 #14	#14	WP3/CS	WP3/VCP	VCP = VALVE CONTROL PNL
C120	3/4"			WP4/CS	WP4/VCP	STUB UP AT LOCATION SHOWN ON THE DRAWINGS
C121	3/4"	10 #14	#14	WP5/CS	WP5/VCP	VCP = VALVE CONTROL PNL
C203	3/4"	2 #14	#14	MCC-LA	EF1/JB	
C204	3/4"	2 #14	#14	MCC-LA	EF2/JB	
C205	3/4"	2 #14	#14	MCC-LA	EF3/JB	
C206	3/4"	16 #14	#14	MCC-LA	EF6/JB	
C300	3/4"	10 #14	#14	JTB-C1	MCC-HA	WP1 STARTER
C301	3/4"			JTB-C1	MCC-HB	RUN TO AREA ABOVE MCC-HB AND CAP
C302	3/4"	10 #14	#14	JTB-C1	MCC-HA	WP2 STARTER
C303	3/4"			JTB-C1	MCC-HB	RUN TO AREA ABOVE MCC-HB AND CAP
C304	3/4"	10 #14	#14	JTB-C1	MCC-HA	WP3 STARTER
C305	3/4"	5 #14	#14	JTB-C1	LS-5	
C306	3/4"			JTB-C1	GSR	SPARE CONDUIT
C307	3/4"	2 #14	#14	JTB-C1	VAULT	SPARE CONDUIT
S100	1-1/4"	50 #18	#14	PNL-I1	JTB-S1	SHARED WITH # 18 IN S100
S101	1-1/4"	4 2/C SH 18		PNL-I1	JTB-S1	SPARE CONDUIT
S102	1-1/4"			PNL-I1	JTB-S1	SPARE CONDUIT
S107	1-1/4"	9 3C/SH		MCC-HA	WP1	WATER PUMP NO.1
S108	1-1/4"			MCC-HB	WP2	SPARE
S109	1-1/4"	9 3C/SH		MCC-HA	WP3	WATER PUMP NO.3
S110	1-1/4"			MCC-HB	WP4	SPARE
S111	1-1/4"	9 3C/SH		MCC-HA	WP5	WATER PUMP NO.5
S300	1"	2 2C/S#18		JTB-S1	TEL	
S301	3/4"	1 2C/S#18		FT-6A	JTB-S1	
S302	1"	1 2C/S#18		LT-4B	JTB-S1	

DESCRIPTION	BKR	VOLTAGE: 208Y/120V 3 PHASE 4W MAINS: 225 MLO			LOCATION: SWGR RM TYPE: SURFACE MOUNT			BKR	DESCRIPTION			
		LOAD A	LOAD B	LOAD C	CKT	PHA	CKT			LOAD A	LOAD B	LOAD C
OUTDOOR LIGHTS	1P/20A	600			1	A	2	1500			1P/20A	BATHROOM HTR, UH-9
WEST GATE	2P/		500		3	B	4				1P/20A	BATH & PMP RM RECPT
"	20A			500	7	A	8		720	540	1P/20A	GARAGE/SWGR RM RECPT
EAST GATE	2P/	500			5	C	6				1P/20A	PMP RM/SWGR RM RECPT
"	20A				9	B	10			1080	1P/20A	CONTROL RM RECPT
PUMP ROOM LIGHTS	1P/20A		500	1750	11	C	12			1440	1P/20A	CONTROL RM/STO RECPT
"	1P/20A	1250			13	A	14				1P/20A	ATTIC RECPT
GARAGE & SWGR RM LTS	1P/20A		1000		15	B	16		900	720	1P/20A	PMP RM RECPT
CONTROL ROOM LTS	1P/20A			1600	17	C	18				1P/20A	EP-4
STORAGE & REAR LTS	1P/20A	1800			19	A	20		300	300	1P/20A	EP-5
ATTIC LIGHTS	1P/20A		1600		21	B	22				1P/20A	EP-5
SPARE	1P/20A			1600	23	C	24				1P/20A	EP-8
SPARE	1P/20A				25	A	26				1P/20A	SPARE
SPARE	1P/20A				27	B	28				1P/20A	SPARE
SPARE	1P/20A				29	C	30				1P/20A	SPARE
SPACE	1P/20A				31	A	32				1P/20A	SPARE
SPACE					33	B	34				1P/20A	SPARE
SPACE					35	C	36				1P/20A	SPARE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE

LIGHT FIXTURE SCHEDULE				
TYPE	LAMP	DESCRIPTION	MANUFACTURER	
A	2-F40W CW	10 in x 48 in. surface mounted fluorescent with prismatic acrylic lens, baked white enamel reflector, 120 vac	Miller # EW-2101-04 Day-Brite "Vigilante" #V11240-4	
B	3-F40W CW	20 in x 48 in. fluorescent fixture recessed into sheet rock ceiling w/ prismatic acrylic lens and baked white reflector housing, 120V AC. Use 1/2" x 1/2" silver egg crate louver where indicated.	Daybrite "Designer" #HG203-HPSI2B Benjamin "Lumi-Flow" #BF 57234-4	
C	4-F40W CW	15 in x 48 in. surface mounted fluorescent with prismatic acrylic lens, baked white enamel reflector, 120 vac	Miller #EW4101-04 Day-Brite "Vigilante" #V16440-4	
D	2-F110W HO CW	7 in x 96 in. stem mounted fluorescent with one piece high impact clear acrylic enclosure, high impact plastic watertight housing & stainless steel latches. U.L. listed, suitable for wet locations, 120V AC.	Miller #KW-3302-08 Day-Brite "Vaporlume" #WR81241 Day-Brite Top Swivel #71081LA	
DI	4-F40 CW	Same as type D except with 4-F40 CW		
F	2-F40W CW	7" x 48" surface mounted fluorescent with one piece high impact clear acrylic enclosure, high impact plastic watertight housing & stainless steel latches. U.L. listed, suitable for wet locations, 120 vac	Miller #KW 2102-04 w/ Miller clamp hanger Day-Brite "Vaporlume" #9-WR41241 Day-Brite #7108 hangers	
G	2-25W Tungsten Sealed Beam	12 volt emergency lighting battery unit in NEMA 12 enclosure, w/two lamp heads, 120 vac	Exide #B2002STD120 Chloride #ITMF250IK2VATDACCFF	
H	1-42W Tungsten Halogen	Polished brass colonial style wall mounted lantern fixture baked lacquer coating & clear crystal glass panels and a ball finial top, 120V AC.	Manning #EB0110 w/Sylvania "Capsylite" A-Line 42W lamp	
K	1-72W Tungsten Halogen	Baked black colonial style lantern fixture with baked lacquer coating, clear crystal glass panels, ball finial top and fitting for fence pillar top mounting.	Manning #EB0113 w/ "Capsylite" A-Line 72W lamp	
KI	1-72W Tungsten Halogen	Same as type K except with wall mounting bracket.		
L	2-1100W	Opal glass cylinder incandescent fixture with one piece aluminum enclosure, 120V AC.	Kosman #7803 Markstone #781	
M	100W MV H38 BASE	Wall mounted, totally enclosed, weather proof mercury vapor area light with die cast alum housing, alzak reflector, and acrylic refractor, 120 vac ballast.	Hubbell "Permalite" # PVL-0100C-118 General Electric "Wallighter" # C583N0U2	

NOTES:  
1. INSTALL ALL CONDUIT AND CABLE BETWEEN EQUIPMENT WHETHER OR NOT SHOWN IN PLAN VIEWS.  
2. LIGHTING AND RECEPTACLE CONDUIT AND CABLE IS NOT SHOWN IN SCHEDULE, REFER TO PLAN VIEWS.

Revision \_\_\_\_\_ By \_\_\_\_\_ Date \_\_\_\_\_

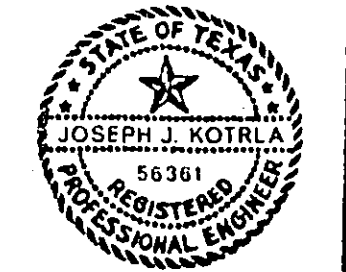
TOWN OF ADDISON  
DALLAS COUNTY, TEXAS  
**CELESTIAL ROAD PUMPING STATION**

CHARLES R. McCREARY & ASSOCIATES  
CONSULTING ENGINEERS  
SUITE 117  
6550 LEI FREEWAY  
DALLAS, TEXAS 75246

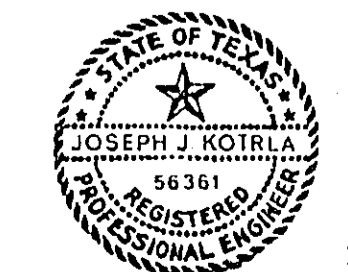
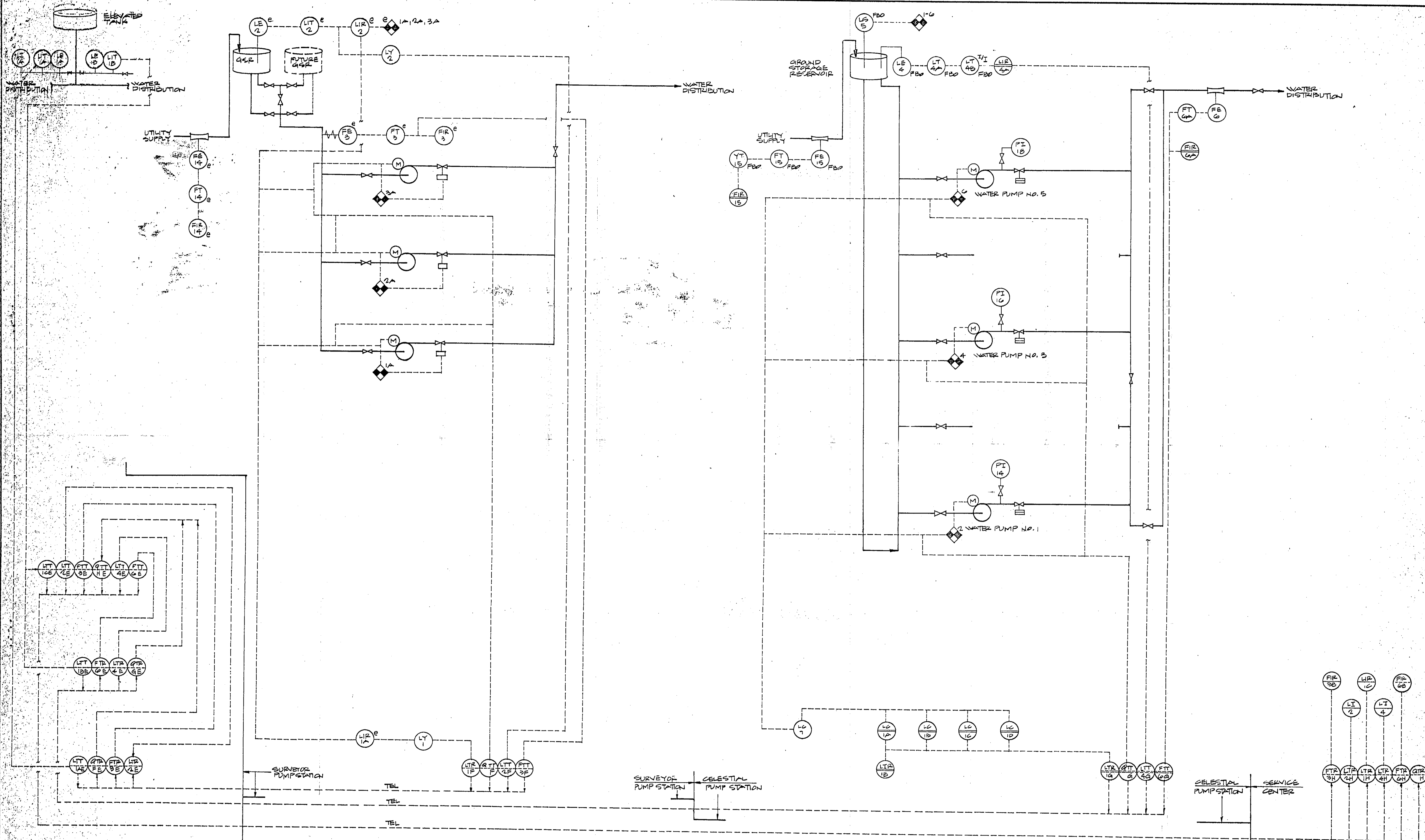
ELECTRICAL SCHEDULES

**GINN, INC.**  
Consulting Engineers  
Dallas, Texas

Designed - JK Drawn - JW Date - \_\_\_\_\_ Job No. - \_\_\_\_\_







No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. AKCREARY & ASSOCIATES <small>CONSULTING ENGINEERS          SUITE 217          8301 LBJ FREEWAY          DALLAS, TEXAS 75240</small>		INSTRUMENTATION DIAGRAM	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet 11 of 11



### LEGEND-INSTRUMENTATION

	LOCAL INSTRUMENT NUMBER INDICATES LOOP		MECHANICAL CONNECTION TO PIPING OR PROCESS LINE		SWITCH HIGH L, F, P, T		PILOT LIGHT RED, AMBER, OR GREEN
	AUXILIARY PANEL MOUNTED INSTRUMENT OR DEVICE		HYDRAULIC OPERATED VALVE		SWITCH LOW, LOW L, F, P, T	F	FLOW
	INSTRUMENT MOUNTED INSIDE AUXILIARY PANEL		BALL VALVE		ALARM LOW	L	LEVEL
	MAIN CONTROL PANEL MOUNTED INSTRUMENT OR DEVICE		GATE VALVE		ALARM HIGH	P	PRESSURE
	INSTRUMENT MOUNTED INSIDE MAIN CONTROL PANEL		VENTURI FLOW ELEMENT		ALARM - LOW, LOW	T	TEMPERATURE
	ELECTRIC SIGNAL		POSITION SWITCH		ALARM Q	Q	EVENT, OR STATUS
	ELECTROMAGNETIC OR SONIC SIGNAL		HAND SWITCH OR PUSHBUTTON		PRIMARY ELEMENT OR SENSOR	Y	SPECIAL FUNCTION
	TELEMETRY OR LEASED TELEPHONE LINE		TELEMETRY TRANSMITTER L, F, Y, Q		INDICATING TRANSMITTER L, F, P, T	FBO	FURNISHED BY OTHERS
	INTERLOCK		TELEMETRY RECEIVER L, F, Y, Q		INDICATING RECORDER L, F, P, T	E	EXISTING INSTRUMENT
	PIPING OR PROCESS LINE		SWITCH LOW L, F, P, T		INDICATOR L, F, P, T		

#### INSTRUMENT LIST

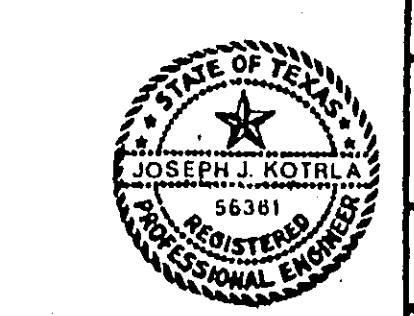
TAG NO.	DESCRIPTION	LOOP SPAN	UNITS	REMARKS
LI-1A	ELEV TANK LEVEL INDICATOR	0 - 40	FEET	
LE-1A	ELEV TANK LEVEL ELEMENT			
LIT-1A	ELEV TANK LEVEL TRANSMITTER	0 - 40	FEET	
LE-2B	ELEV TANK LEVEL ELEMENT			
LIT-2B	ELEV TANK LEVEL TRANSMITTER	0 - 40	FEET	
LTT-1CE	ELEV TANK LEVEL TELEMETRY TRANSMITTER			
LTT-2E	SURVEYOR GSR LEVEL TELEMETRY TRANSMITTER			
FTT-3E	SURVEYOR PS FLOW TELEMETRY TRANSMITTER			
QTT-HE	STATUS TELEMETRY TRANSMITTER			
LTT-4E	CELESTIAL GSR LEVEL TELEMETRY TRANSMITTER			
FTT-6E	CELESTIAL PS FLOW TELEMETRY TRANSMITTER			
LTT-1BE	ELEV TANK LEVEL TELEMETRY TRANSMITTER			
FTR-6E	CELESTIAL PS FLOW TELEMETRY RECEIVER			
LTR-4E	CELESTIAL GSR LEVEL TELEMETRY RECEIVER			
QTR-GE	STATUS TELEMETRY RECEIVER			
LTT-1AE	ELEV TANK LEVEL TELEMETRY TRANSMITTER			
QTR-PE	STATUS TELEMETRY RECEIVER			
FTR-3E	SURVEYOR PS FLOW TELEMETRY RECEIVER			
LTR-2E	SURVEYOR GSR LEVEL TELEMETRY RECEIVER			
QTT-F	STATUS TELEMETRY TRANSMITTER			
LTR-1F	ELEV TANK LEVEL TELEMETRY RECEIVER			
LTT-2F	SURVEYOR GSR LEVEL TELEMETRY TRANSMITTER			
FTT-3F	SURVEYOR PS FLOW TELEMETRY TRANSMITTER			
LIR-1A	ELEV TANK LEVEL RECORDER/CONTROLLER	0 - 40	FEET	EXISTING INSTRUMENT, 7 DAY CHART
LY-1	ELEV TANK LEVEL SIGNAL CONVERTER			
LE-2	SURVEYOR GSR LEVEL ELEMENT			EXISTING INSTRUMENT
LIT-2	SURVEYOR GSR LEVEL TRANSMITTER	0 - 25	FEET	EXISTING INSTRUMENT
LIR-2	SURVEYOR GSR RECORDER	0 - 25	FEET	EXISTING INSTRUMENT, 7 DAY CHART
LY-2	SIGNAL CONVERTER			
FE-3	SURVEYOR PS FLOW ELEMENT			EXISTING INSTRUMENT
FT-3	SURVEYOR PS FLOW TRANSMITTER	0 - 12	MGD	EXISTING INSTRUMENT
FIR-1	SURVEYOR PS FLOW RECORDER	0 - 12	MGD	EXISTING INSTRUMENT, 7 DAY CHART
FE-1	DALLAS WATER UTILITY FLOW ELEMENT			DALLAS WATER UTILITY'S INSTRUMENT
FI	DALLAS WATER UTILITY FLOW TRANSMITTER/CONTROLLER			DALLAS WATER UTILITY'S INSTRUMENT
4	DALLAS WATER UTILITY FLOW RECORDER - SURVEYOR PS			EXISTING INSTRUMENT, 7 DAY CHART
1G	ELEV TANK LEVEL TELEMETRY RECEIVER			
G	STATUS TELEMETRY TRANSMITTER			
1G	CELESTIAL GSR LEVEL TELEMETRY TRANSMITTER			
1G	CELESTIAL PS FLOW TELEMETRY TRANSMITTER			
-1B	ELEV TANK LEVEL RECORDER	0 - 40	FEET	
-4	CELESTIAL GSR LEVEL ELEMENT			DALLAS WATER UTILITY'S INSTRUMENT
4A	CELESTIAL GSR LEVEL TRANSMITTER	0 - 24	FEET	DALLAS WATER UTILITY'S INSTRUMENT
4B	CELESTIAL GSR LEVEL 1/1 TRANSMITTER & ISOLATOR			DALLAS WATER UTILITY'S INSTRUMENT
-4A	CELESTIAL GSR LEVEL RECORDER	0 - 24	FEET	7 DAY CHART
5	CELESTIAL GSR LOW LEVEL CUTOFF SWITCH			
6	CELESTIAL PS FLOW ELEMENT			
6A	CELESTIAL PS FLOW TRANSMITTER	0 - 40	MGD	
-6A	CELESTIAL PS FLOW RECORDER	0 - 40	MGD	7 DAY CHART
6	CELESTIAL PS FLOW TELEMETRY RECEIVER			
7	CELESTIAL PS PUMP CONTROLLER/ALTERNATOR			PROGRAMMABLE CONTROLLER
1C-7A	LEVEL SETPOINT CONTROLLER A			
1C-7B	LEVEL SETPOINT CONTROLLER B			
1C-7C	LEVEL SETPOINT CONTROLLER C			
1C-7D	LEVEL SETPOINT CONTROLLER D			
FE-15	DALLAS WATER UTILITY FLOW ELEMENT			DALLAS WATER UTILITY'S INSTRUMENT
FT-15	DALLAS WATER UTILITY FLOW TRANSMITTER/CONTROLLER			DALLAS WATER UTILITY'S INSTRUMENT
YT-15	DALLAS WATER UTILITY CURRENT-TO-CURRENT ISOLATOR			DALLAS WATER UTILITY'S INSTRUMENT
FIR-15	DALLAS WATER UTILITY FLOW RECORDER - CELESTIAL PS	5 - 20	MGD	DALLAS WATER UTILITY'S INSTRUMENT
PI-14	WATER PUMP NO.1 PRESSURE INDICATOR	0 - 150	PSI	
PI-16	WATER PUMP NO.3 PRESSURE INDICATOR	0 - 150	PSI	
PI-18	WATER PUMP NO.5 PRESSURE INDICATOR	0 - 150	PSI	
FTR-3H	SURVEYOR PS FLOW TELEMETRY RECEIVER			
LTR-2H	SURVEYOR GSR LEVEL TELEMETRY RECEIVER			
LTR-1H	ELEV TANK LEVEL TELEMETRY RECEIVER			
LTR-4H	CELESTIAL GSR LEVEL TELEMETRY RECEIVER			
FTR-6H	CELESTIAL PS FLOW TELEMETRY RECEIVER			
QTR-H	STATUS TELEMETRY RECEIVER			
FIR-3B	SURVEYOR PS FLOW RECORDER	0 - 12	MGD	
LI-2	SURVEYOR GSR LEVEL INDICATOR	0 - 25	FEET	
LIR-1C	ELEV TANK LEVEL RECORDER	0 - 40	FEET	
LI-4	CELESTIAL GSR LEVEL INDICATOR	0 - 24	FEET	
FIR-6B	CELESTIAL PS FLOW RECORDER	0 - 40	MGD	

#### ANNUNCIATOR SCHEDULE CELESTIAL ROAD PUMP STATION

R.C	1ST LINE	2ND LINE	3RD LINE	COMMENTS
1.1	WATER PUMP	NO. 1	FAIL	
2.1	WATER PUMP	NO. 2	FAIL	
3.1	WATER PUMP	NO. 3	FAIL	
4.1	WATER PUMP	NO. 4	FAIL	
1.2	WATER PUMP	NO. 5	FAIL	
2.2	GROUND STORAGE	RESERVOIR	HIGH LEVEL	
3.2	GROUND STORAGE	RESERVOIR	LOW LEVEL	
4.2	GROUND STORAGE	RESERVOIR	LOW LEVEL CUTOFF	
1.3	ELEVATED	TANK	HIGH LEVEL	
2.3	ELEVATED	TANK	LOW LEVEL	
3.3	POWER	FAILURE		
4.3	ELEVATED TANK	TELEMETRY	FAIL	
1.4	PROGRAMMABLE	CONTROLLER	FAIL	
2.4	CELESTIAL PS	INTRUSION		
3.4	CELESTIAL PS	FIRE		
4.4				SPARE ALARM MODULE

#### ANNUNCIATOR SCHEDULE SURVEYOR ROAD PUMP STATION

R.C	1ST LINE	2ND LINE	3RD LINE	COMMENTS
1.1	WATER PUMP	NO. 1	FAIL	
2.1	WATER PUMP	NO. 2	FAIL	
3.1	WATER PUMP	NO. 3	FAIL	
4.1				SPARE ALARM MODULE
1.2				SPARE ALARM MODULE
2.2	GROUND STORAGE	RESERVOIR	HIGH LEVEL	
3.2	GROUND STORAGE	RESERVOIR	LOW LEVEL	
4.2	GROUND STORAGE	RESERVOIR	LOW LEVEL CUTOFF	
1.3	ELEVATED	TANK	HIGH LEVEL	
2.3	ELEVATED	TANK	LOW LEVEL	
3.3	POWER	FAILURE		
4.3	ELEVATED TANK	TELEMETRY	FAIL	
1.4	PROGRAMMABLE	CONTROLLER	FAIL	
2.4				SPARE ALARM MODULE
3.4				SPARE ALARM MODULE
4.4				SPARE ALARM MODULE



TOWN OF ADDISON  
DALLAS COUNTY, TEXAS  
**CELESTIAL ROAD PUMPING STATION**

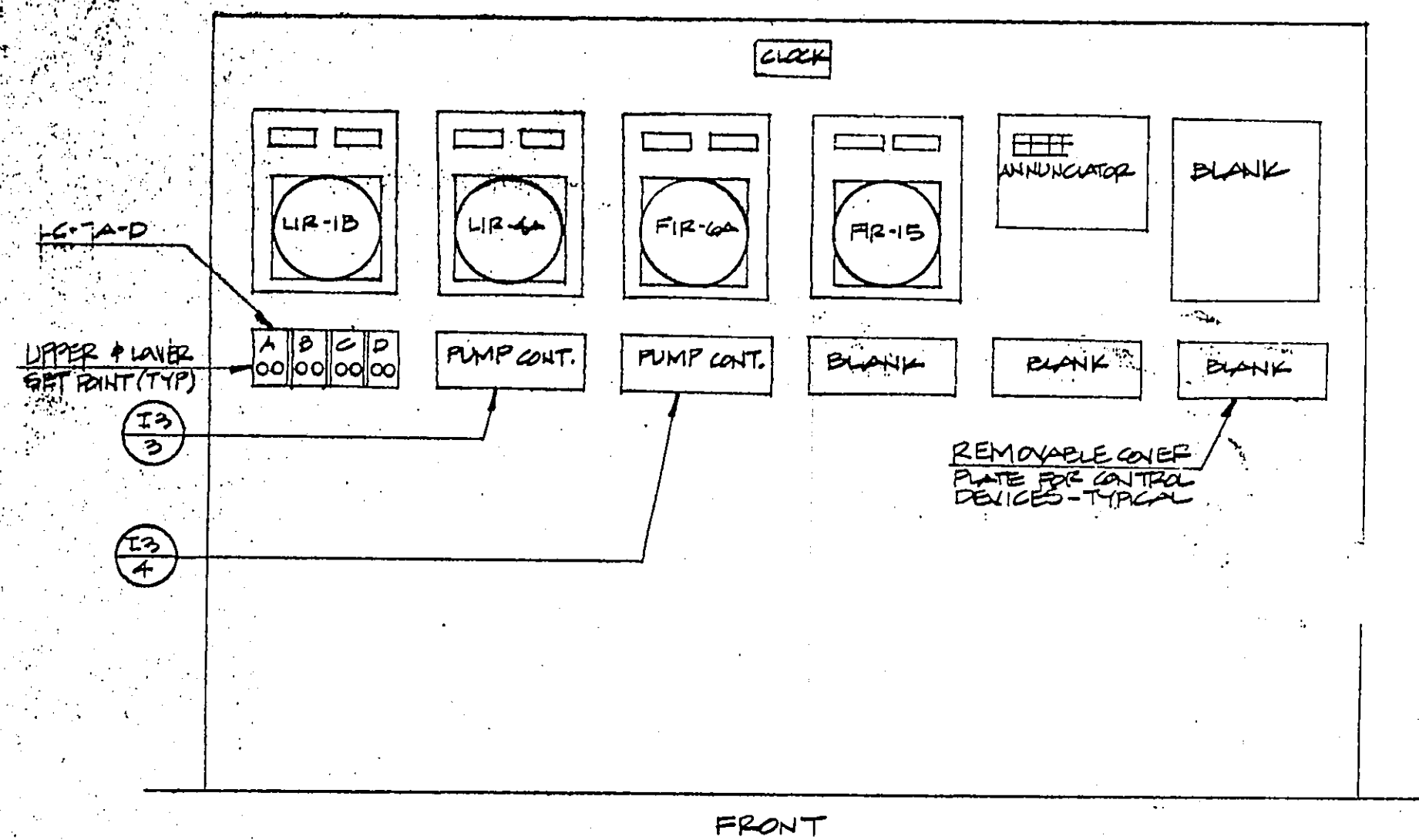
CHARLES R. MCCREARY & ASSOCIATES CONSULTING ENGINEERS  
5330 LBJ FREEWAY DALLAS, TEXAS 75240

**GINN, INC.**  
Consulting Engineers Dallas, Texas

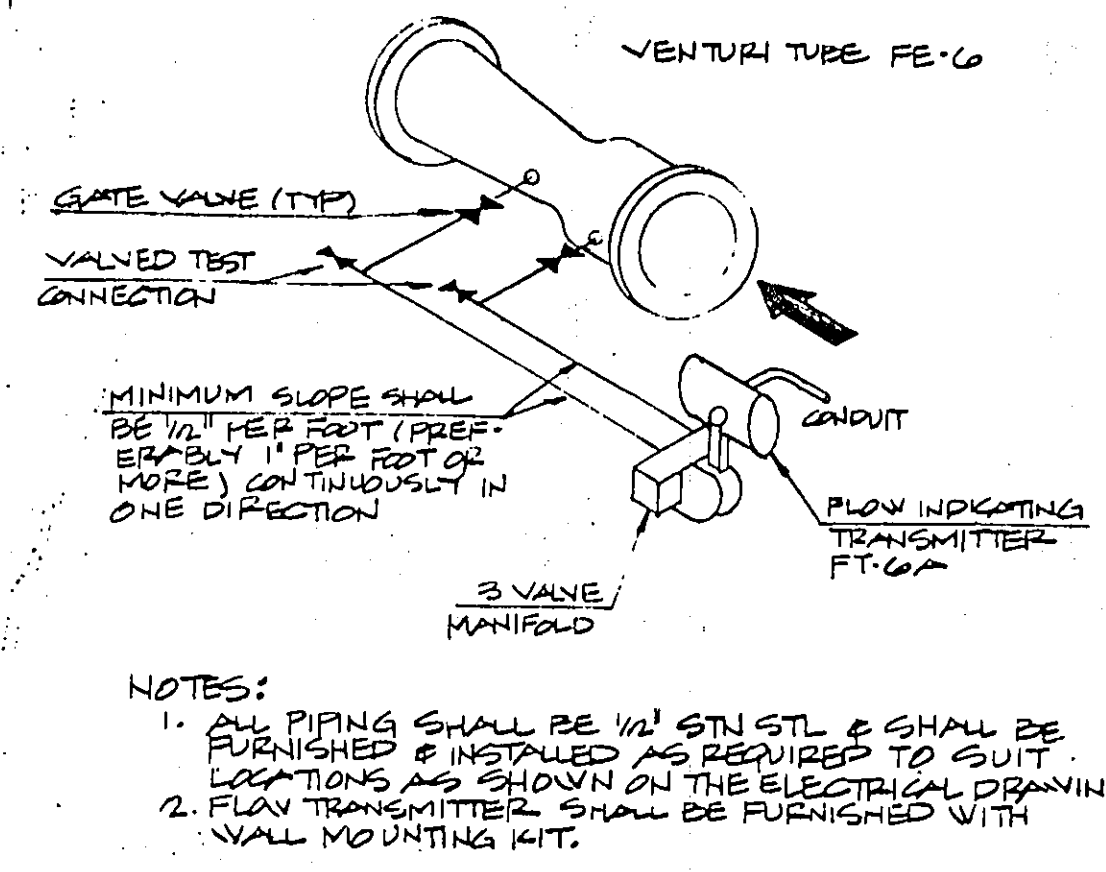
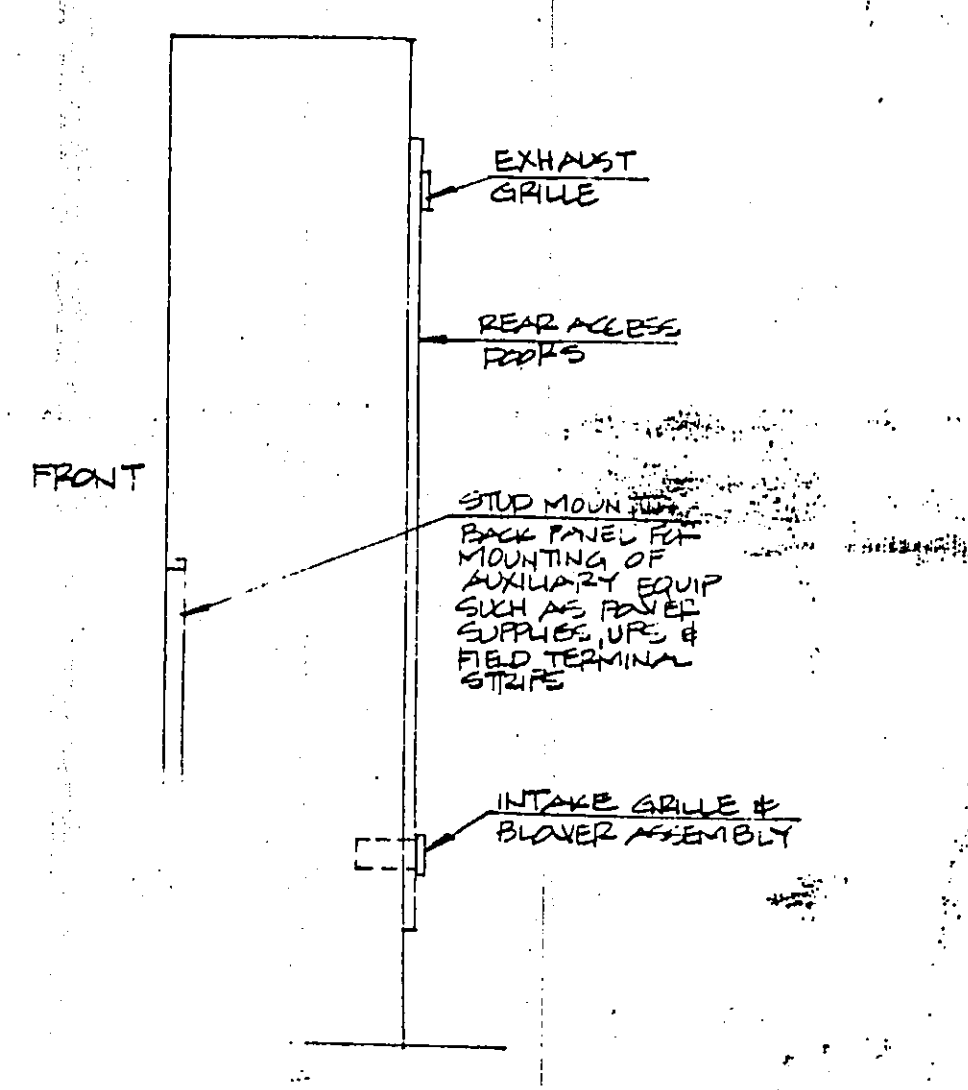
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet 12 of 1

Joseph J. Kotula  
2-18-87

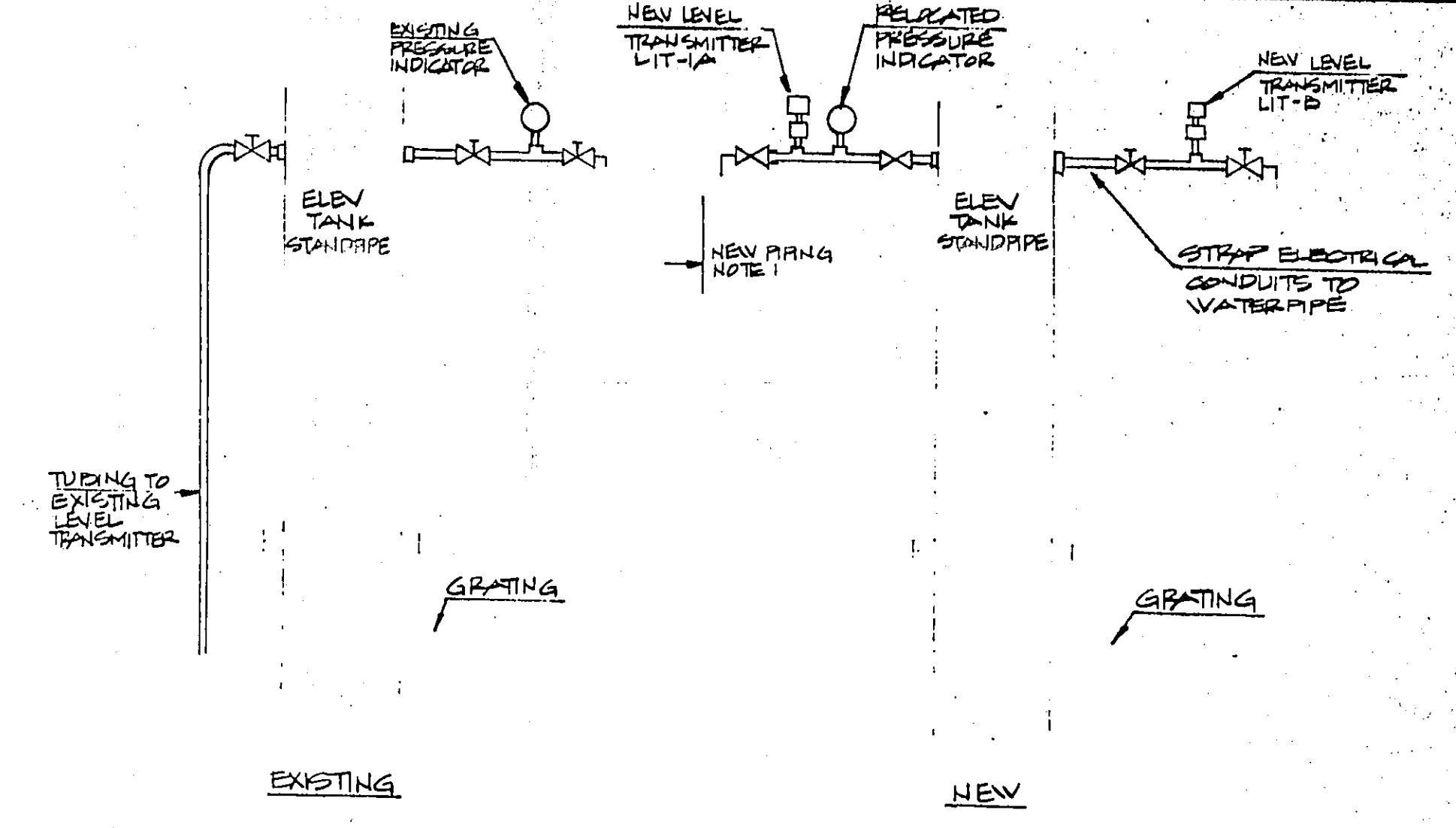




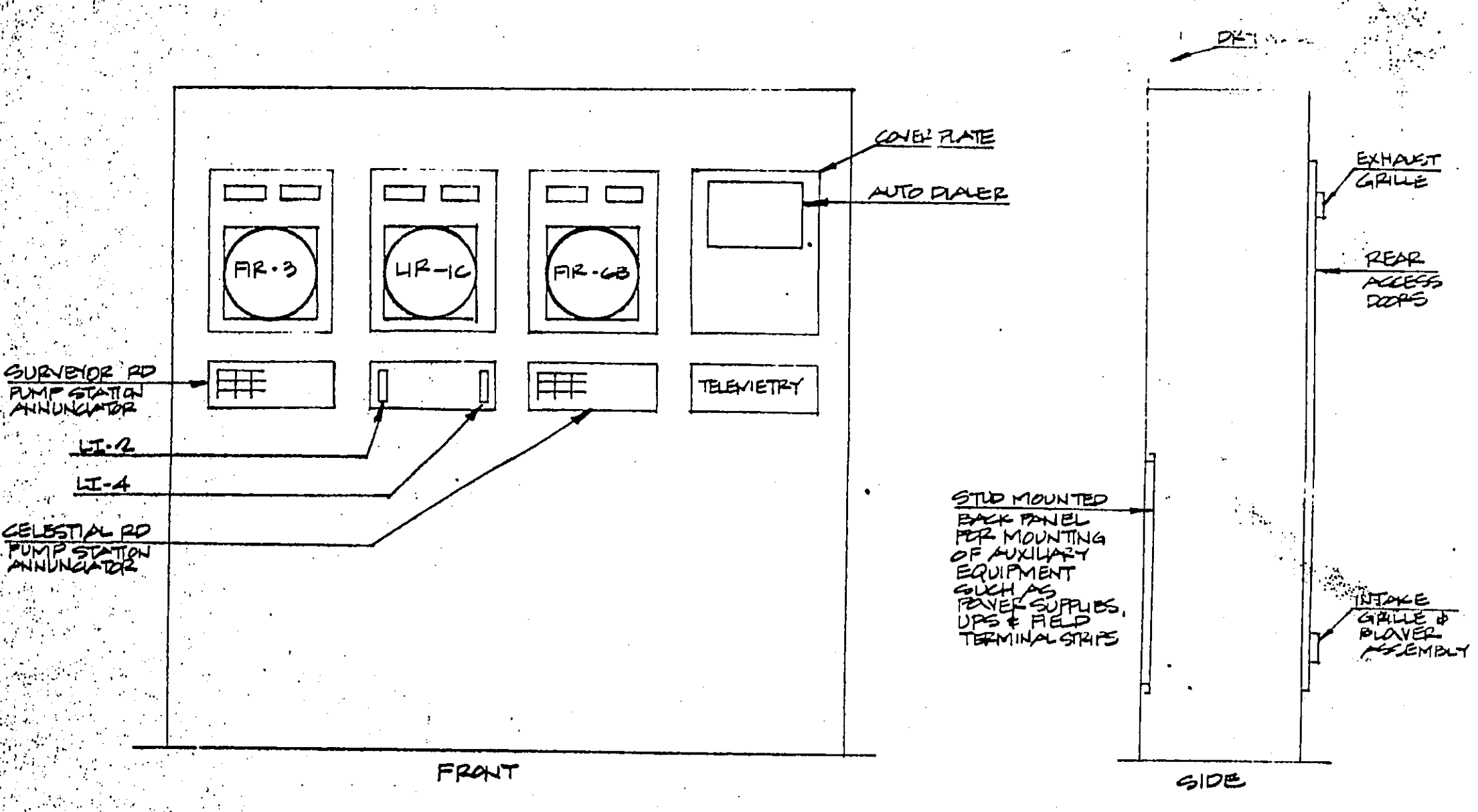
1 MAIN INSTRUMENT CONTROL PANEL - CELESTIAL ROAD PUMP S.  
SCALE 3/4" = 1'-0"



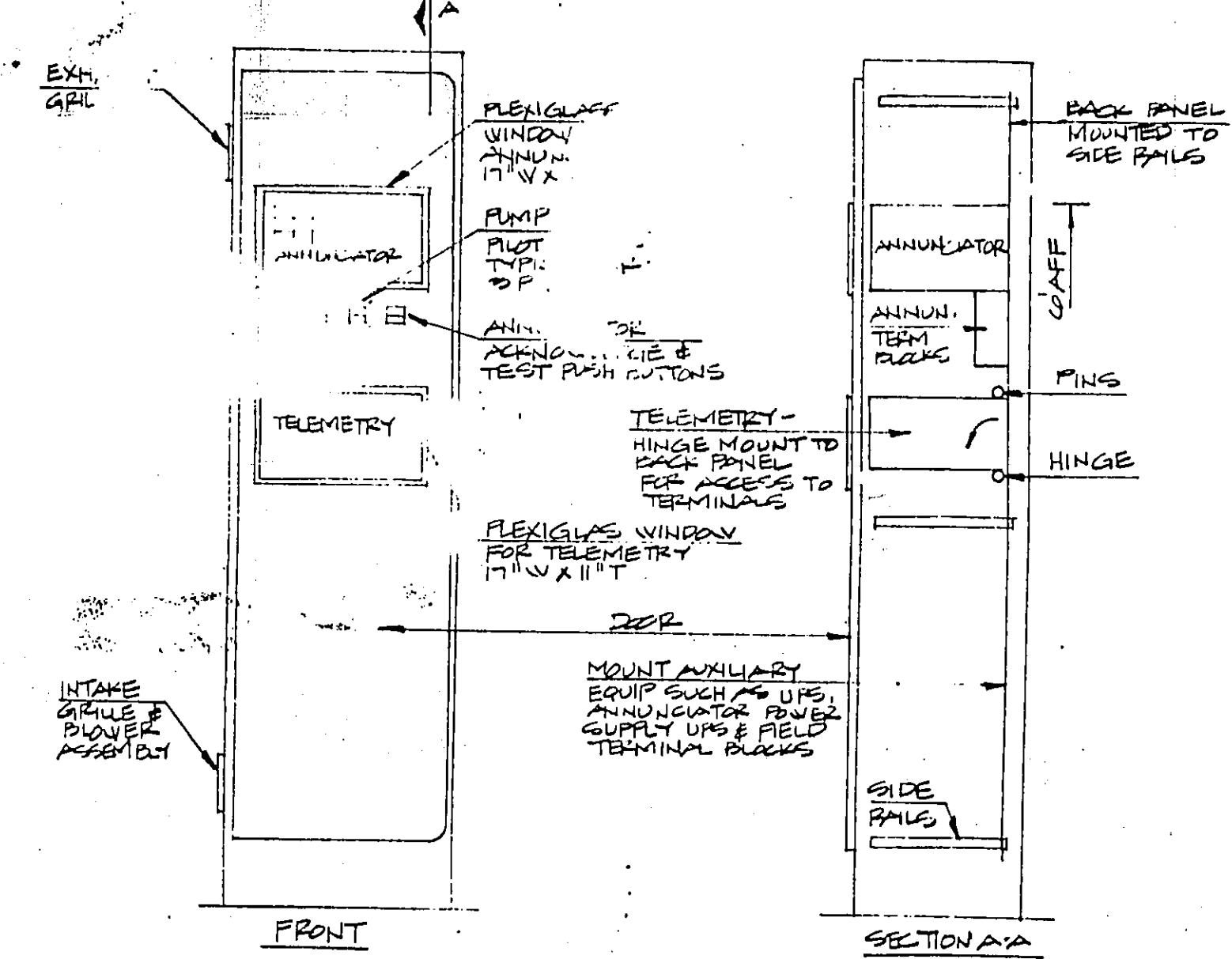
5 DETAIL - VENTURI TUBE AND FLOW TRANS.  
NO SCALE



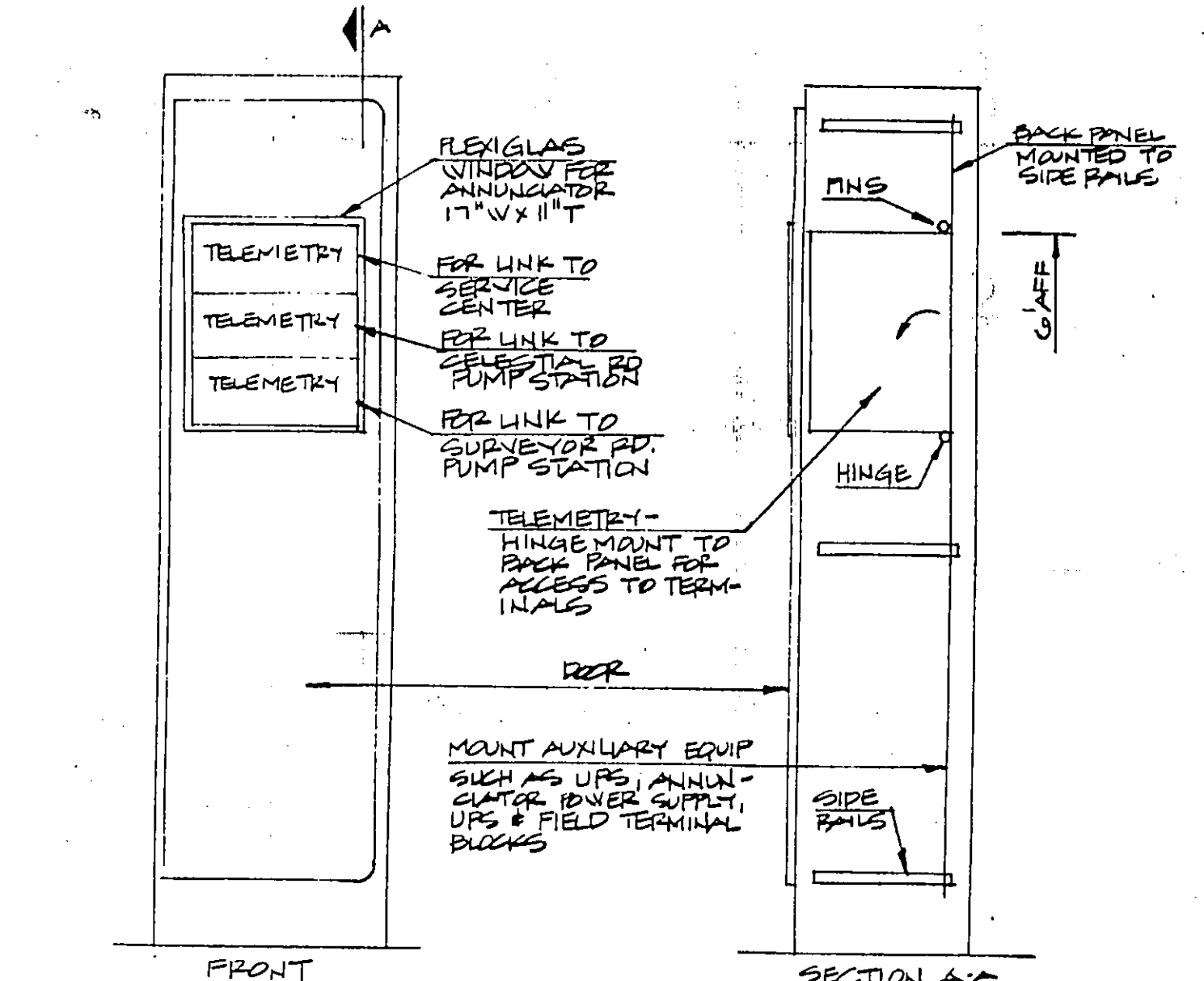
7 ELEVATED TANK LEVEL TRANSMITTERS  
NO SCALE



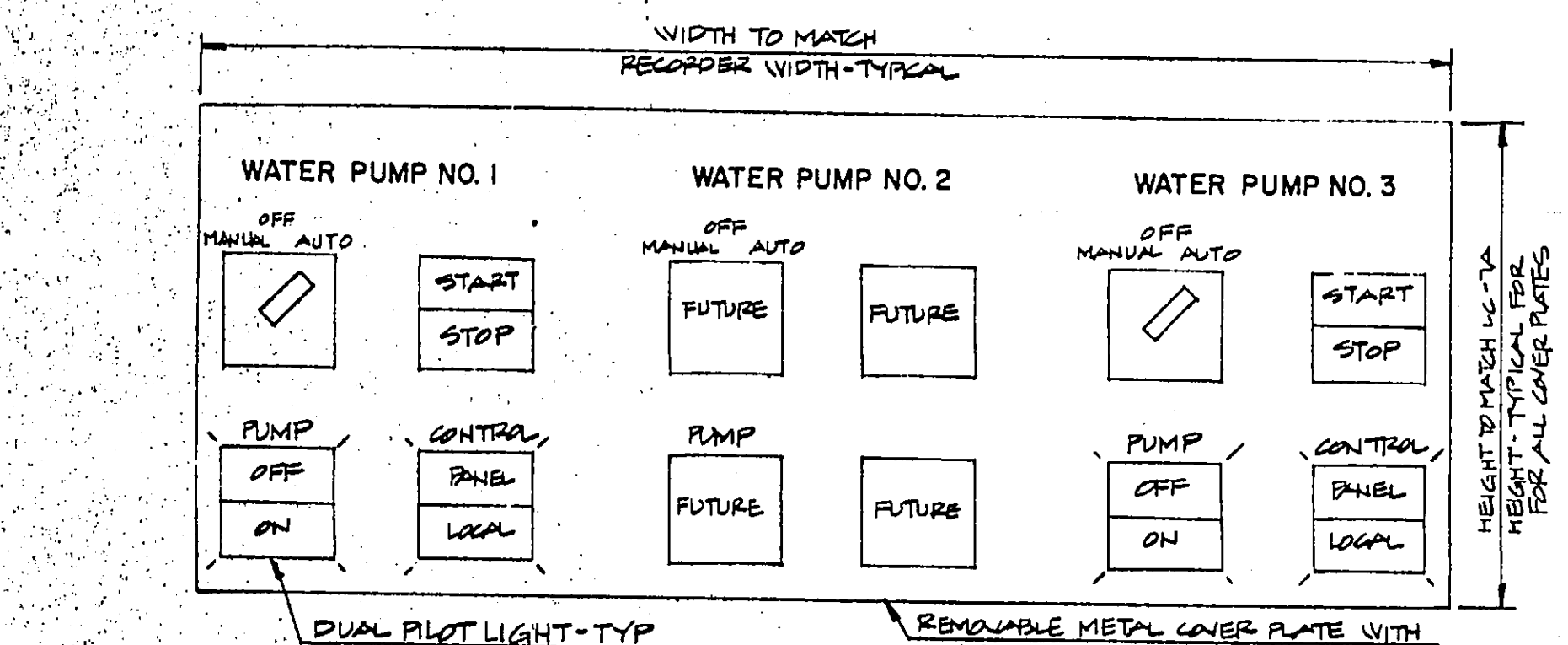
2 LOCAL INSTRUMENT PANEL - SERVICE CENTER  
SCALE 3/4" = 1'-0"



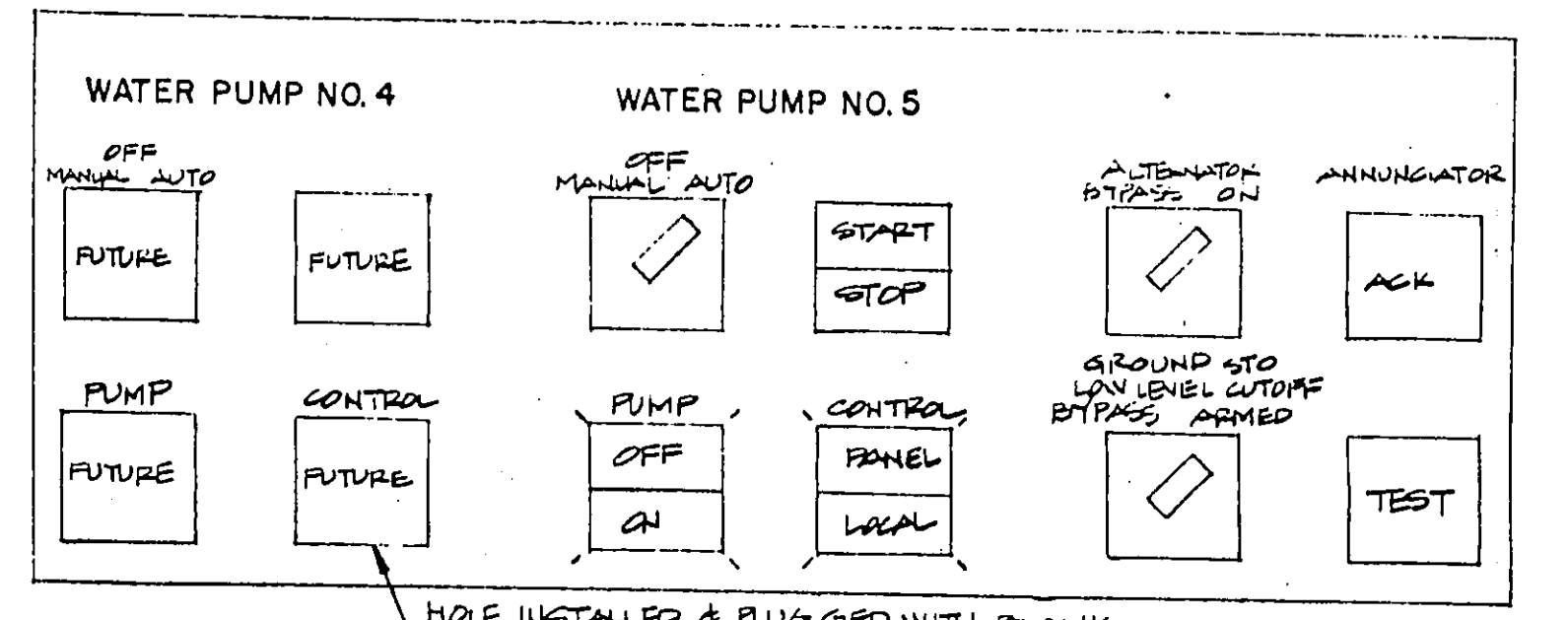
6 LOCAL INSTRUMENT PANEL - SURVEYOR PUMP STA.  
NO SCALE



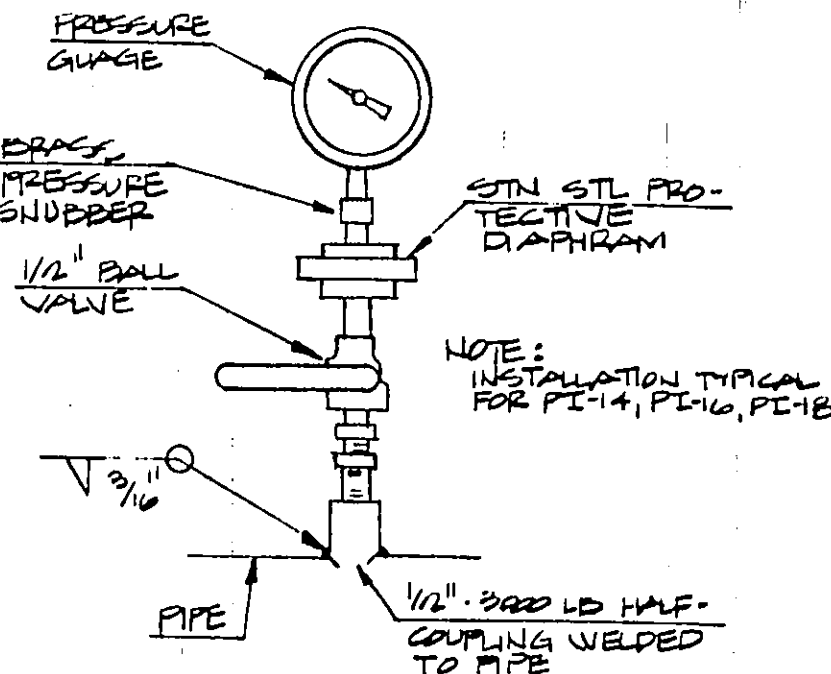
7 LOCAL INSTRUMENT PANEL - ELEVATED TANK  
NO SCALE



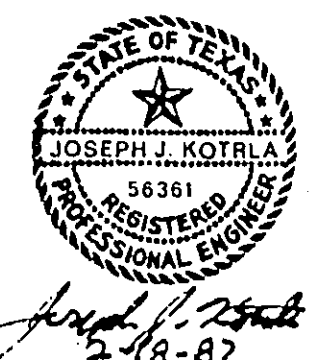
3 CONTROL DEVICE LAYOUT  
NO SCALE



4 CONTROL DEVICE LAYOUT  
NO SCALE



8 DETAIL - PRESSURE GAUGE  
NO SCALE

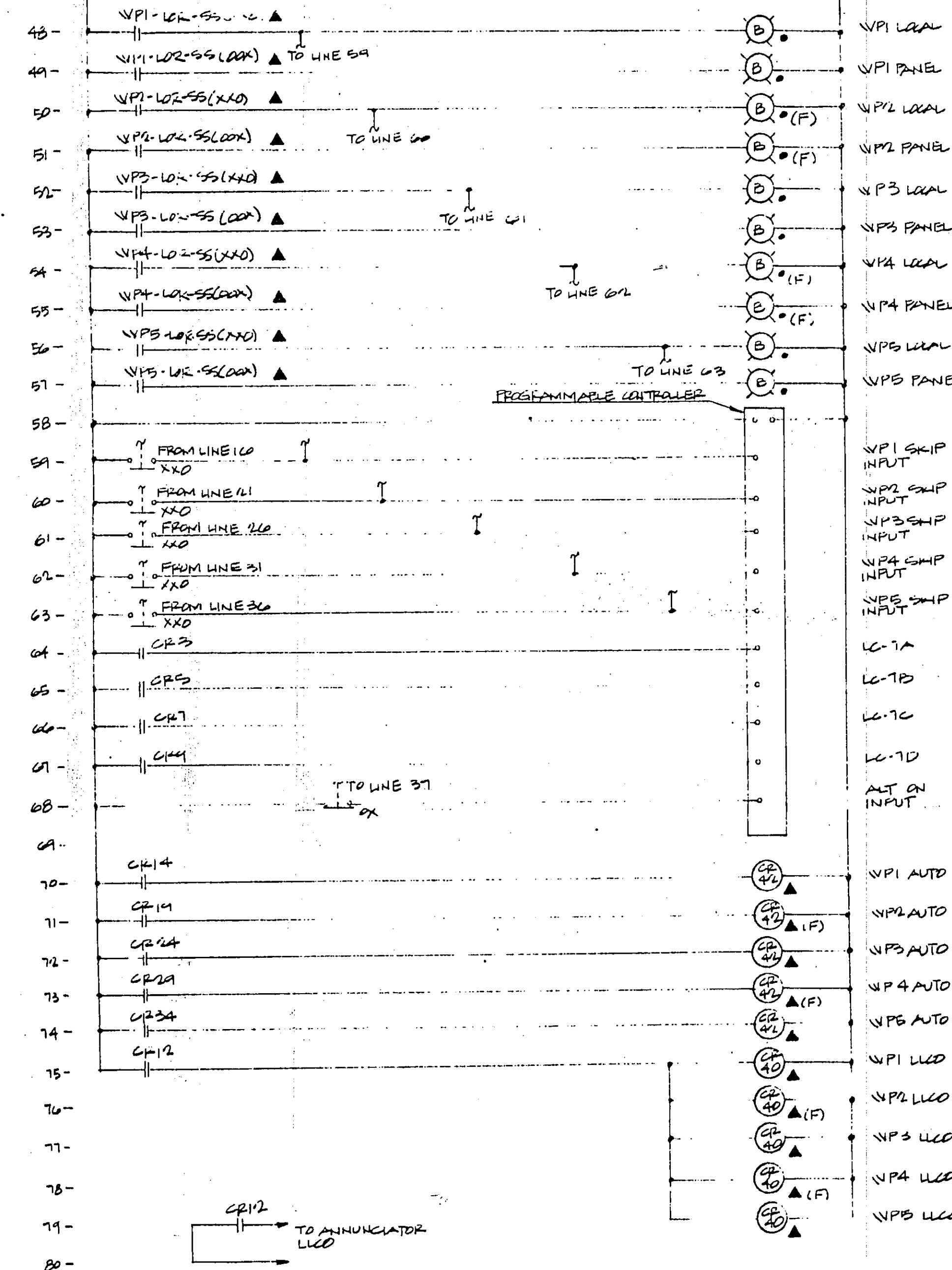


No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. MCCREARY & ASSOCIATES		INSTRUMENTATION DETAILS	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet 13 of 1



CONTINUED PANEL LEFT

CONTINUED PANEL LEFT



CONTINUED PANEL RIGHT

CONTINUED PANEL RIGHT

NOTES THIS SHEET

1. THIS SHEET SHOWS CONTROL LOGIC WIRING ONLY FOR THE CELESTIAL ROAD PUMP STATION CONTROL PANEL. PUMP ALTERNATION SHALL BE DONE BY THE PROGRAMMABLE CONTROLLER. JUMPER FUTURE PUMP SKIP INPUTS TO PROGRAMMABLE CONTROLLER IN TUNNY ALTERNATES ONLY THREE PUMPS. PROVIDE TERMINAL STRIPS FOR ADDITION OF FUTURE CONTROL UNITS SUCH AS SELECTOR SWITCHES & LIGHTS...

2. SUBMIT SHOP DRAWINGS SHOWING ALL OTHER WIRING FOR THE ANNUNCIATORS, TELEMETRY, INSTRUMENT LOOP WIRING, ETC. FOR ALL MAIN & LOCAL CONTROL PANELS. ALL FIELD WIRING SHALL HAVE TERMINAL STRIPS. ALL ANNUNCIATOR & TELEMETRY INPUTS & OUTPUTS SHALL HAVE TERMINAL STRIPS.

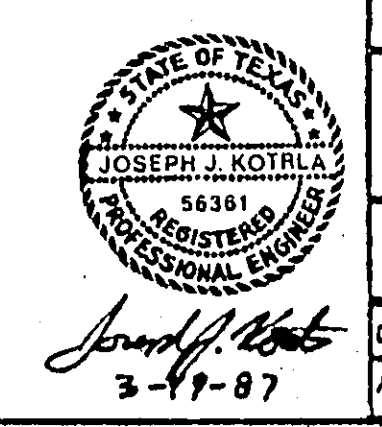
3. THE CONTROL PANEL FOR THE SECURITY SYSTEM SHALL BE LOCATED IN THE MAIN CONTROL PANEL AT CELESTIAL ROAD & IN THE LOCAL PANEL AT THE SUBVENTOR ROAD PUMP STATION.

4. EACH CONTROL PANEL SHALL HAVE A CIRCUIT BREAKER DISCONNECT FOR THE INCOMING POWER AND THE UPS. FURNISH SQUARE D TYPE 60 AMP BREAKERS MOUNTED ON THE INSIDE & MOUNTED MAIN PANEL DISCONNECT AND UPS OUTPUT DISCONNECT.

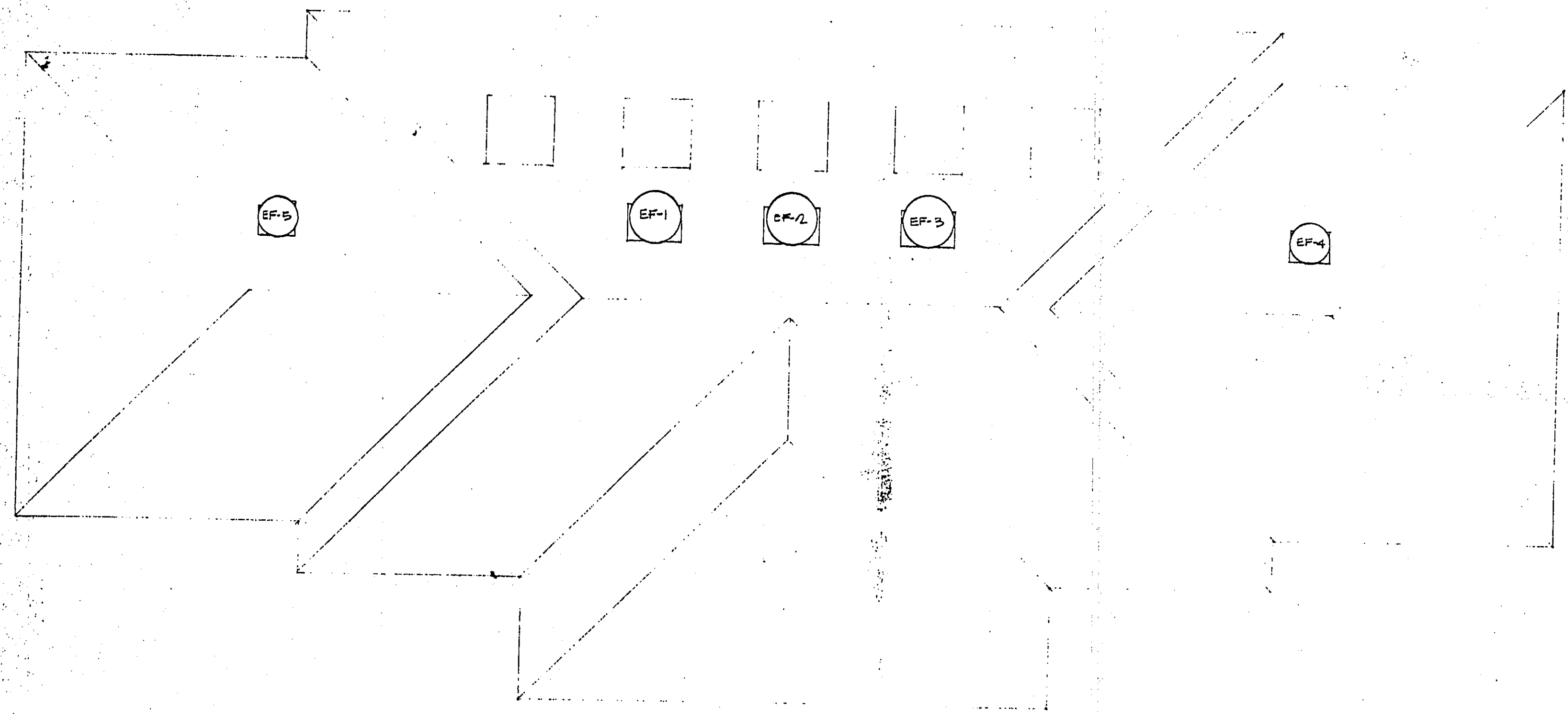
LEGEND

- ▲ DEVICE REMOTE FROM CONTROL PANEL
- DEVICE MOUNTED ON FRONT OF CONTROL PANEL
- LOR-SS LOCAL-OFF-REMOTE SELECTOR SWITCH

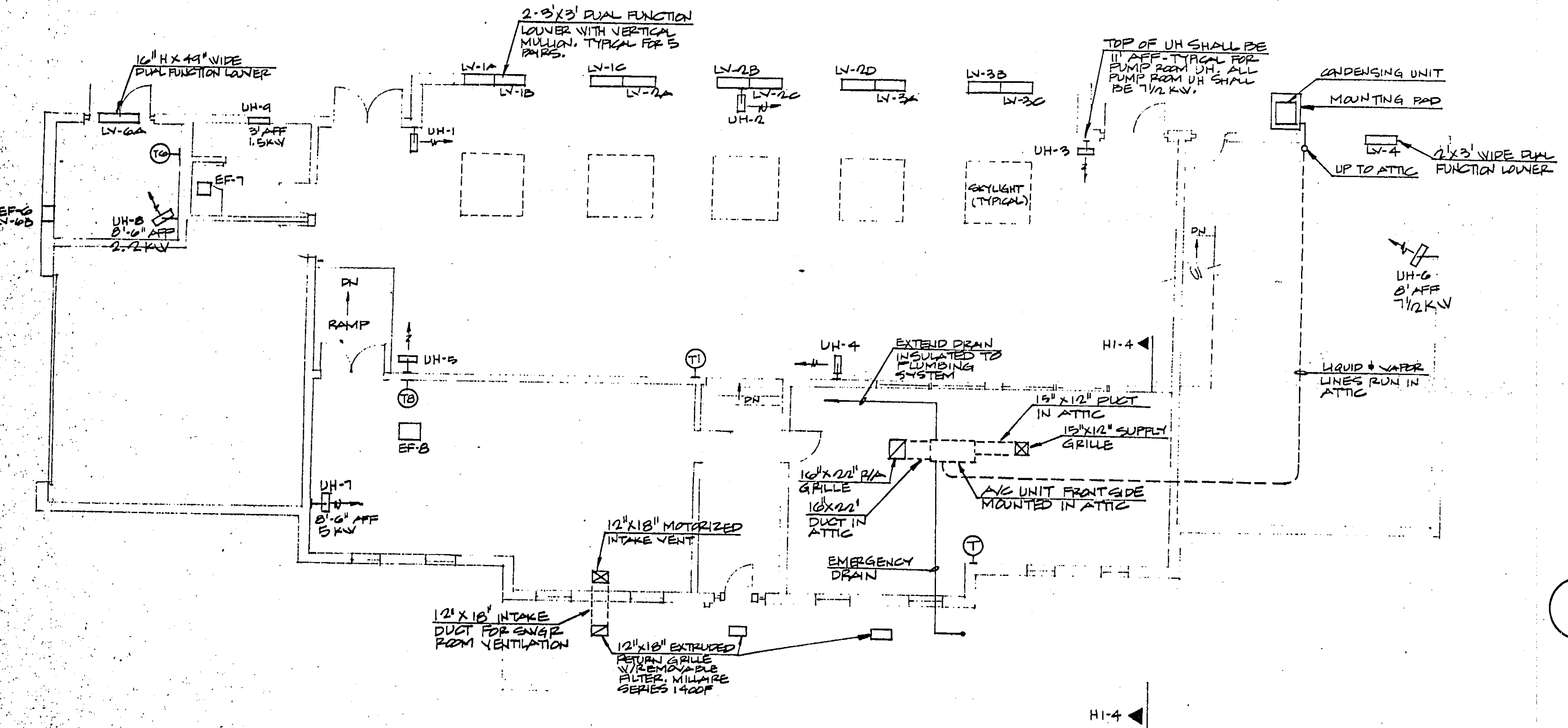
APPENDUM NO. 1 - NEW DRAWING		JK	13-20-1971
No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. MCGREARY & ASSOCIATES		INSTRUMENTATION CONTROL PANEL SCHEMATICS	
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet 1-4 of







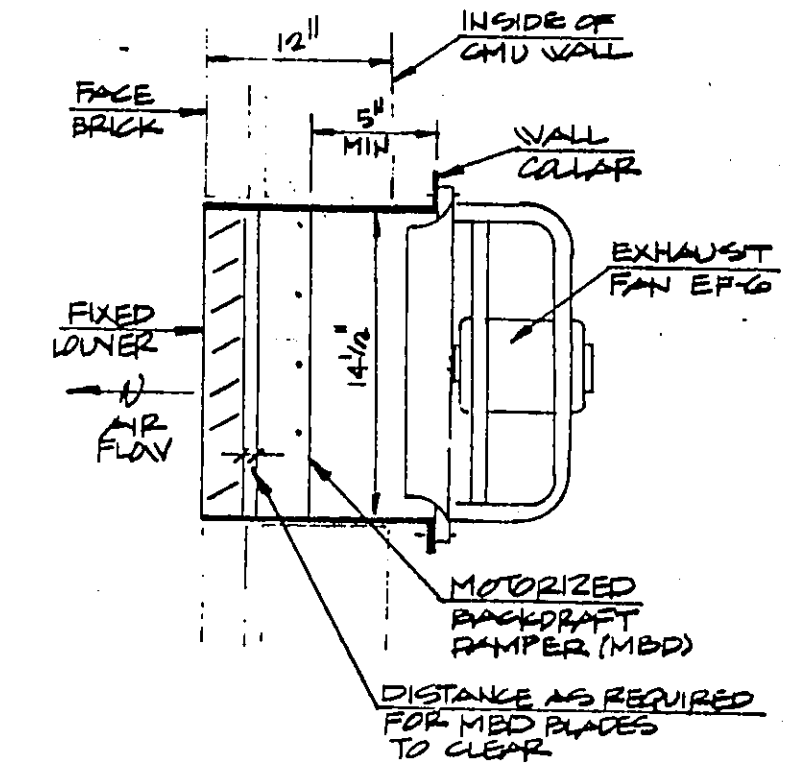
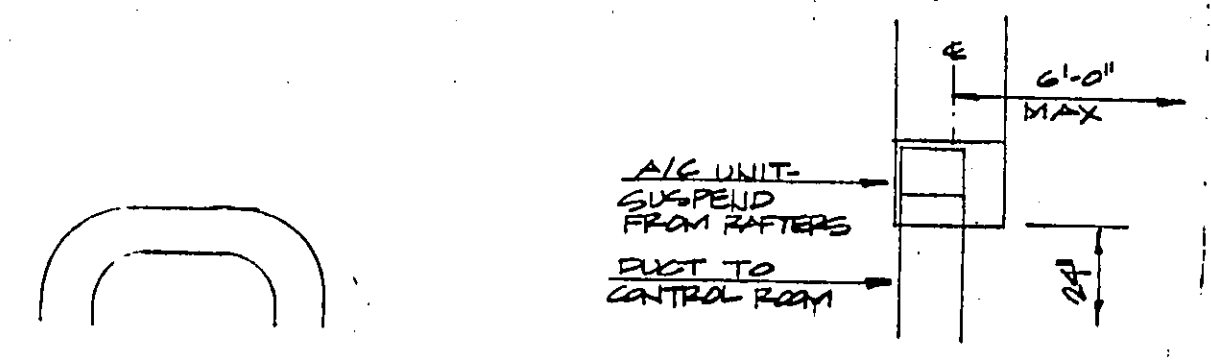
1 ROOF PLAN  
SCALE 1/8"=1'-0"



2 HVAC PLAN  
SCALE 1/8"=1'-0"

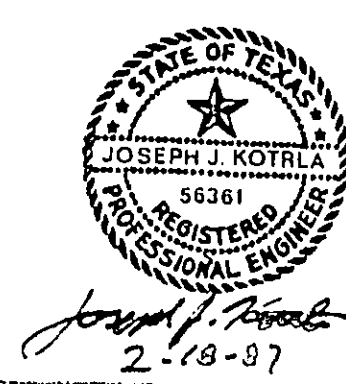
3 ATTIC PLAN  
SCALE 1/8"=1'-0"

4 SECTION  
NO SCALE



NOTE: VERIFY WALL OPENING W/MFR BEFORE CONSTRUCTION

5 DETAIL  
NO SCALE



No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>CELESTIAL ROAD PUMP STATION</b>			
CHARLES R. MCCREARY & ASSOCIATES		CONSULTING ENGINEERS STATE #17 2501 LAURELWAY DALLAS, TEXAS 75240	MECHANICAL HVAC
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - JK	Drawn - JW	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet #11