## CITY OF WHITTIER, ALASKA WHITTIER WELL FIELD UPGRADE

## ADDENDUM NO. 3

February 14, 2024

The changes, additions, deletions, and clarifications reflected in this addendum are hereby made a part of the Whittier Well Field Upgrade Specifications and Contract Documents.

### SPECIFICATIONS AND CONTRACT DOCUMENTS

IX. RECORD DRAWINGS

Add the attached WHITTIER WATER SYSTEM IMPROVEMENTS PHASE III as-built drawings showing the location and configuration of the approximately 1,000,000 gallon water reservoir.

BIDDER MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE APPROPRIATE SPACE ON THE BID FORM. FAILURE TO DO SO WILL SUBJECT THE BIDDER TO DISQUALIFICATION.

\*\*\* END OF ADDENDUM NO. 3 \*\*\*

## WHITTIER WATER SYSTEM IMPROVEMENTS PHASE III Whittier, Alaska June, 1995 In Cooperation with the State of Alaska Department of Environmental Conservation Village Safe Water Program RECORD DRAWING CERTIFICATE OCEA THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE. engineering group anchorage, glaska Pete Bellezzo January 12, 1996 3900 ARCTIC BLVD. SUITE 203 NAME DATE ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 Project Number (Consultant) 9069 (VSW) 90907 FAX: (907) 561-2273 Bob Lundell VSW Project Engineer **Rockford** Corporation Contractor Jerry Burkes PROJECT Construction Foremon. City of Whittier, Alaska LOCATION Utility Owner April 14, 1995 Final Desian (Date) April 13, 1995 ADEC Approval (Date) Location Map (From) June, 1995 (To)\_ October, 1995 Consultant Construction Period As-Builts (Date) November 1, 1995

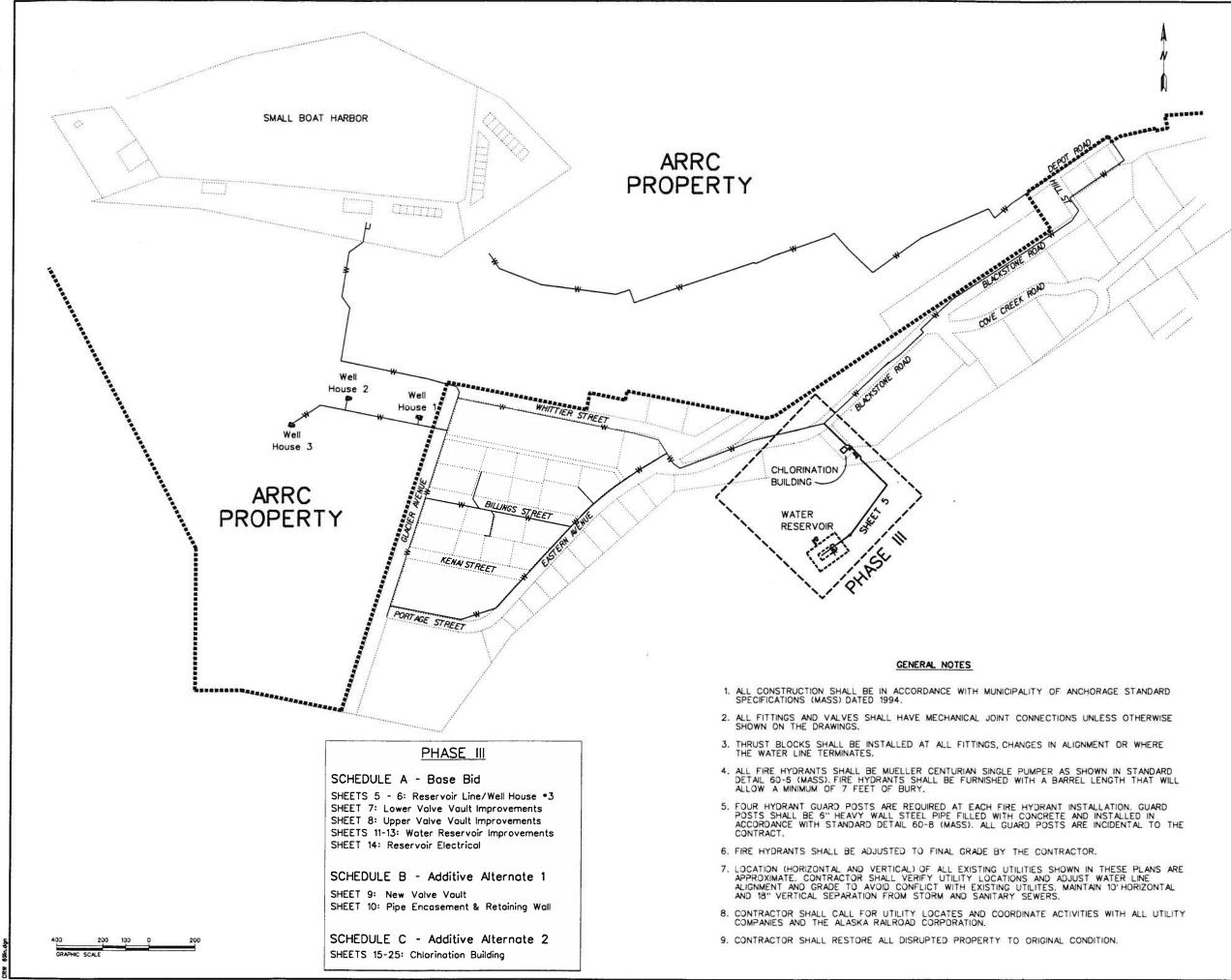
# SHEET INDEX

No.

Title

1 Cover Sheet 2 Index Sheet & Legend 3 Survey Control 4 Pipe Node Diagram/Design Data 5 Reservoir Line: Sta. 21+34RS - Sta. 28+00RS 6 Typical Cross Sections, Piping Details & Well House \*3 PRV 7 Lower Valve Vault Plan & Details 8 Upper Valve Vault Plan & Details 9 New Valve Vault Plan & Details 10 Pipe Encasement Design & Retaining Wall 11 Water Reservoir Improvements 12 Water Reservoir Details 13 Water Reservoir Details 14 Reservoir Electrical Plan CHLORINATION BUILDING 15 Piping Plan & General Notes 16 Site Plan 17 Elevations & Details 18 Floor Plan, Sections & Details 19 Foundation Plan & Details 20 Roof Framing Plan & Notes 21 Floor Plan, Sections, Chlorination System & Details 22 Injection Vault Plan & Details 23 Electrical Plan 24 Panel Wiring Schematic & Details 25 Ladder Diagram & Pump Diagrams

PHASE III AS-BUILTS

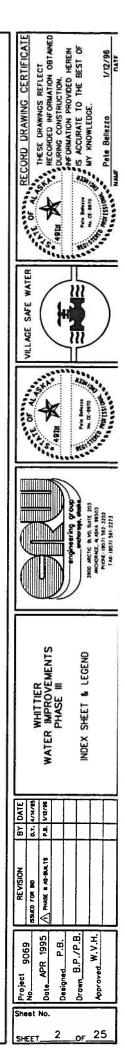


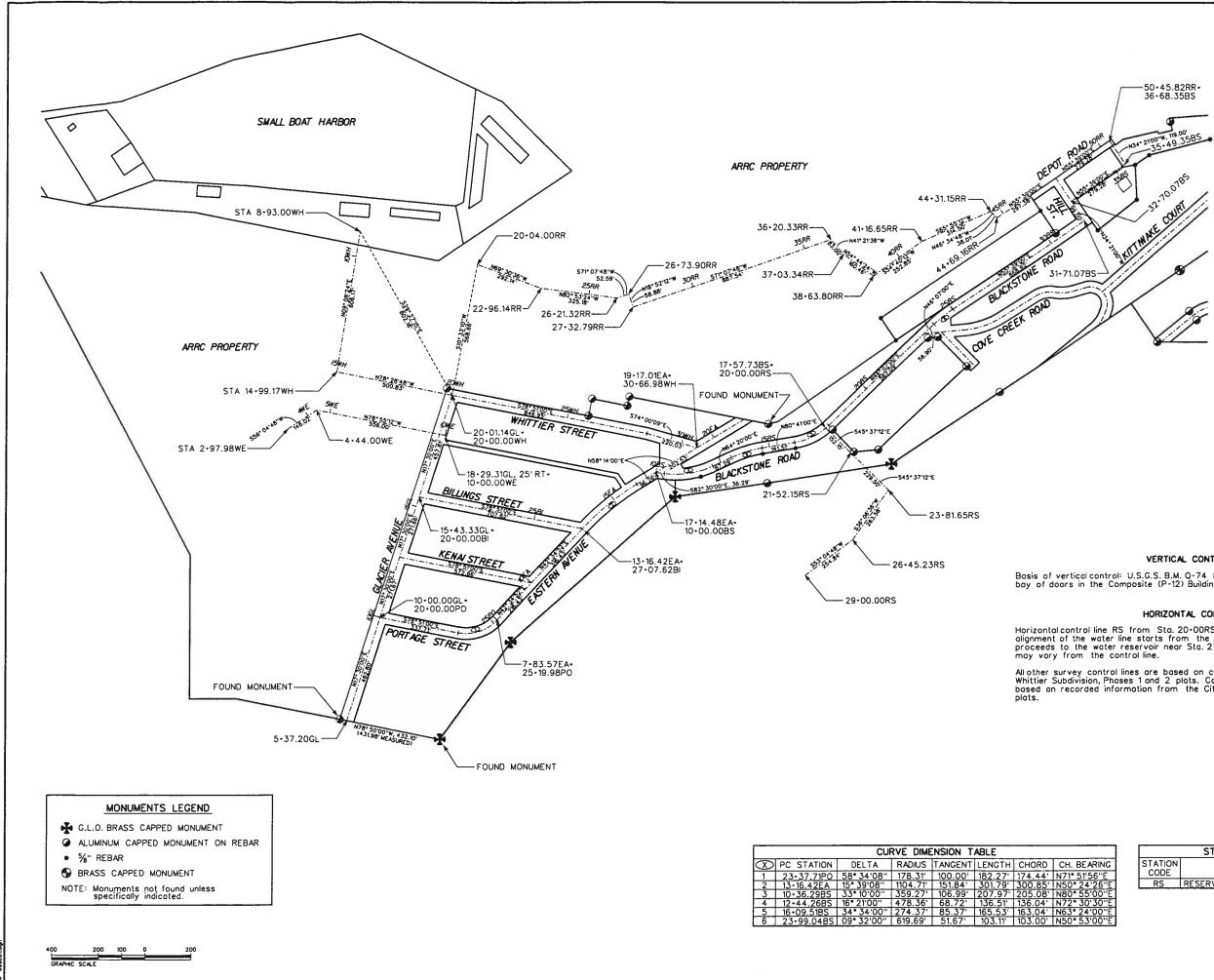
CT	AN		PD
21	AN	UA	κu

EXIS	TING LEGEND - Plan
Symbol	Description
	ALUMINUM CAP
	SURVEY MONUMENT
• I.P.	RON PIN RECOVERED
-0-	UTILITY POLE
00	LIGHT POLE
-	GUY WIRE AND ANCHOR
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
E	ELECTRIC MANHOLE
C	ELECTRIC RISER
	OVERHEAD TELEPHONE
	UNDERGROUND TELEPHONE
	TELEPHONE MANHOLE UNDERGROUND TELEPHONE AND CABLE LINES
	PETROLEUM OIL LINE
s	SEWER LINE
<u> </u>	SEWER CLEANOUT
0	SEWER MANHOLE
	SEWER PLUG
	WATER LINE
	FIRE HYDRANT
	WATER PLUG OR CAP
X	WATER MAN VALVE
Χ	WATER SERVICE KEY BOX
50	STORM DRAIN LINE
0	STORM DRAIN MANHOLE
	STORM CATCH BASIN
,<	DRAINAGE CULVERT
	FLOW LINE
	EDGE OF PAVEMENT
	CURB AND GUTTER
	EDGE OF GRAVEL ROAD
ممم	GUARD RAIL
•	STREET SIGN
0	TREE OR SHRUB
+++	RALROAD TRACKS
3	RALROAD TRACK SWITCH
	BUILDING
\$22220	UNDERGROUND STRUCTURE
•	TEST HOLE

EXISTING LEGEND - Profile					
Symbol Description					
000000	UTILITY LINE CROSSING/ PROFILE				
MILLIN	UTILITY DUCT CROSSING/ PROFILE				
	UTILITY MANHOLE				

PROPOSED IMPROVEMENTS LEGEND					
Symbol	Description				
	WATER LINE-PLAN				
	WATER LINE PROFILE AND CROSSING-PROFILE				
	WATER PLUG OR CAP				
M	WATER MAIN VALVE				
M	WATER SERVICE VALVE				
	FIRE HYDRANT				





### VERTICAL CONTROL

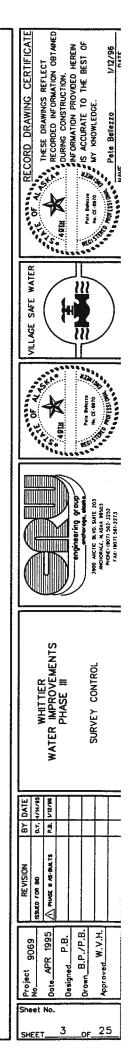
Basis of vertical control: U.S.G.S. B.M. Q-74 located at floor level on the northwest bay of doors in the Composite (P-12) Building. Elevation - 28.15 MLLW.

### HORIZONTAL CONTROL

Horizontal control line RS from Sta. 20+00RS to 29+00RS is calculated. The proposed alignment of the water line starts from the lower valve vault at Sta 21+60RS and proceeds to the water reservoir near Sta. 27+00RS. Actual placement of the water line may vary from the control line.

All other survey control lines are based on center line of rights-of-way within City of Whittier Subdivision, Phases 1 and 2 plats. Control line stationing and bearings are based on recorded information from the City of Whittier Subdivision, Phases 1 and 2

STATIONING DESIGNATION						
STATION						
CODE	LOCATION	SHEET NO.				
RS	RESERVOIR LINES	5				







### DEMANDS

3) (1)

36----- (38)

ā

- All demands based on existing water use records:
   Maximum Day Demand = 180.2 gpm
   Average Daily Demand = 0.5 x Maximum Day Demand = 90.1 gpm
   Fire Flow Rate = 500 gpm
- Average Daily Demands at Key Locations:
  Begich Towers: 16.7 gpm (Node 9)
  Whittier Manor / Sportsman's Inn: 8.7 gpm (Node 37)
  Great Pacific Fisheries: 16.5 gpm (Node 15)

### WATER SOURCES

- Deep wells (75' to 110')
- No modifications to existing well sources or pumps:
  Well No. 1: 50 hp 500 gpm (Node 5)
  Well No. 2: 35 hp 225 gpm (Node 3)
  Well No. 3: 35 hp 250 gpm (Node 1)

### ESTIMATED CHLORINATION RATES

- To Reservoir (Primary System Maximum Day Demond)
   Chlorine Mass Looding 1.63 lb/day
   Injection Concentration 0.75 mg/L
- To Reservoir (Primory System Average Daily Demand)
   Chlorine Mass Loading 1.08 lb/day
   Injection Concentration 1.00 mg/L
- To Distribution Network (Secondary System Maximum Day Demand)
   Chlorine Mass Loading 2.18 lb/day
   Injection Concentration 1.00 mg/L
- To Distribution Network (Secondary System Average Daily Demand)
   Chlorine Mass Loading 1.08 lb/day
   Injection Concentration 1.00 mg/L

### STORAGE

Nominal Tank Capacity = 1,041,000 gallons (Node 47, 48)
 Tank is trapezoidal in shape with 4000-gallon sump:

68

**(**11

(13)

(400)32-

(35)(3)

---(14) (34)

Well Hous

Well Hous No. 3

--- (33)\_\_\_

(28)

Well House No. 1 5 (100)] (41)

Distance from Top of Ladder		Elev.	Depth of Water	Gallons
Inches	Feet		(Feet)	
98	8.2	215.8	20	1,041,00
110	9.2	214.8	19	949,00
122	10.2	213.8	18	863,00
134	11.2	212.8	17	781,00
146	12.2	211.8	16	704,00
158	13.2	210.8	15	632,00
170	14.2	209.8	14	564,00
182	15.2	208.8	13	500,00
194	16.2	207.8	12	441,00
206	17.2	206.8	11	385,00
218	18.2	205.8	10	334,00
230	19.2	204.8	9	286,00
242	20.2	203.8	8	242,00
254	21.2	202.8	7	201,00
266	22.2	201.8	6	164,00
278	23.2	200.8	5	130,00
290	24.2	199.8	4	99,00
302	25.2	198.8	3	71,00
314	26.2	197.8	2	46,000
326	27.2	196.8	1	23,00
338	28.2	195.8	0	4,000

### SYSTEM OPERATIONS

Operating Pressure Range: minimum 20 psig - maximum 80 psig
 Pressure reducing valve in WellHouse No. 2 limits maximum system pressure to 80 psig. PRV in use only when reservoir is off-line and WellNo. 2 only is supplying system



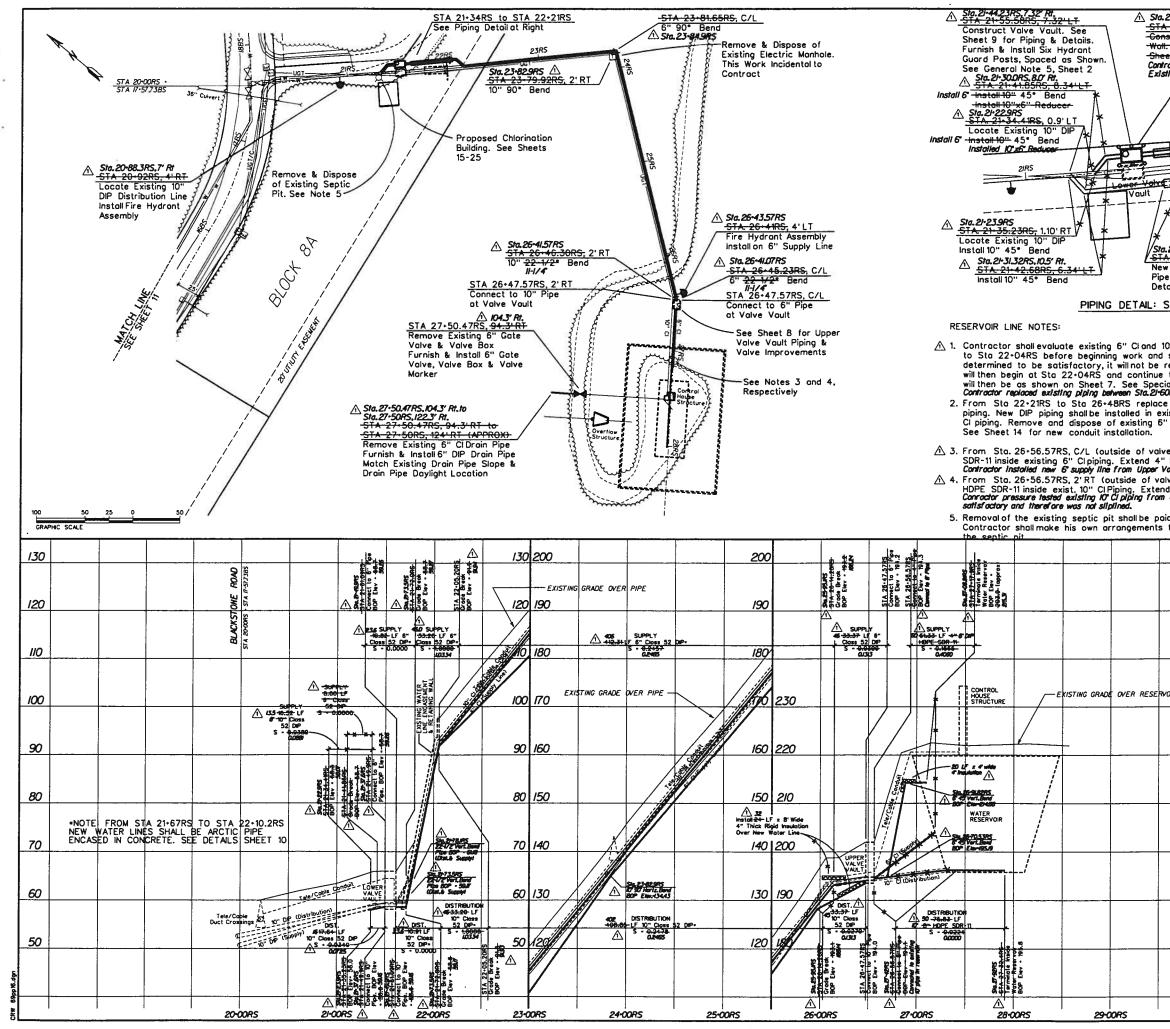
	F	PIPE S	SCHEDULE		
Pipe No.	No	de to	Pipe Diameter (inches)	Pipe Length (feet)	
1	39	2	6.0	285	
2	2	40	6.0	45	
3	2	4	10.0	330	
4	41	4	6.0	30	
5	4	6	10.0	150	
6	6	46	10.0	1,940	
7	7	8	10.0	490	
8	8	9	10.0	310	
9	9	17	10.0	640	
10	7	10	8.0	240	
11	10	11	8.0	175	
12	10	12	8.0	55	
13	12	13	8.0	140	
14	12	17	8.0	355	
15	17	18	10.0	140	
16	18	19	8.0	100	
17	18	16	10.0	385	
18	16	20	10.0	740	
19	20	21	10.0	160	
20	20	37	10.0	790	
21	52	24	10.0	1,200	
22	25	23	10.0	460	
23	22	52	10.0	680	
24	44	15	10.0	1.150	
25	15	16	10.0	960	
26	15	42	10.0	95	
27	22	44	4.0	630	
28	31	26	6.0	565	
29	26	27	6.0	335	
30	27	28	1.5	330	
31	28	29	1.5	415	
32	29	30	1.5	95	
33	30	32	1.5	435	
34	44	14	10.0	20	
35	14	31		10	
36	33	14	6.0	495	
37	33	34	<u>6.0</u> 6.0	70	
38	34	36		400	
39	36	35	6.0	190	
			6.0		
40	37	38	10.0	1,050	
	38	25	10.0	1,490	
42	42	-7	10,0	365	
43	21	47	10.0	540	
44	46	48	6.0	540	
47	52 31	23	<u>10.0</u> 6.0	500	

## PIPE NODE LEGEND

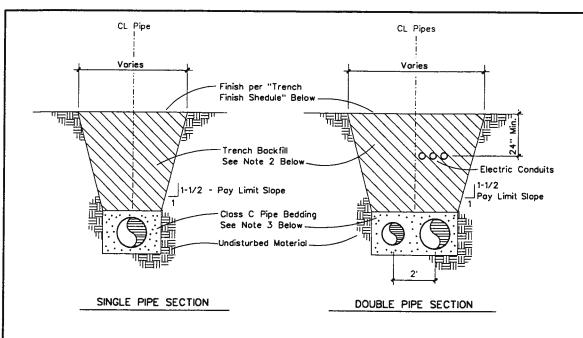
- 1 Pipe Node Designation
- (1) Pipe Designation Number
- ----- New Water Line
- ---- Existing Water Line

FCORD DRAWING CERTIFICATE	10 JV	RECORDED INFORMATION OR ANEL	DURING CONSTRUCTION.		S An Baum S	MY KNOWLEDGE.	Antression Pete Bellezzo 1/12/96
	VILLAGE SAFE WAIER		+				)
			A HIGY		Polo Bonzzo		
				engineering group	enchoroga, alcala	AND ANCTIC BLVD. SUITE 203 ANCHORAGE, ALASKA 29503	PHONE: (907) 562-3752
	WHITTIED	WATER IMPROVEMENTS	PHASE III		PIPE NODE DIAGRAM /	UESIGN UALA	
DATE	4/14/95	P.B. 1/12/96				Γ	
BΥ	D.Y.	P.8.				╞	-
REVISION	ISSUED FOR BOD	A PHASE II AS-BUILTS					
Project aneo	No. oN	Date APR 1995	Designed		Drown	Approved W.V.H.	
She	et	No.	4			2	5
SH	EET	_		-	<u>0ŀ.</u>		_

Node No.         Elevation (feet)         Demond (gpm)           1         6.0.0           2         36.0         0.0           3         36.0         0.0           4         34.1         0.0           5         34.0         0.0           6         32.8         0.0           7         42.8         0.0           8         58.7         5.0           9         57.5         25.5           10         41.8         0.0           11         44.0         0.0           12         41.2         5.0           9         57.5         25.5           10         41.8         0.0           11         44.0         0.0           15         28.0         38.3           16         25.4         9.2           17         39.2         0.0           19         35.5         0.0           20         38.1         0.0           21         38.1         0.0           22         19.3         5.0           30         20.5         5.0           32         20.9         0.0	PIPE N	PIPE NODE SCHEDULE						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Node No.	Elevation (feet)						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	63.8						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8	58.7	5.0					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9	57.5	25.5					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	41.8						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	44.0						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12	41.2						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	38.0						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	28.0	38.3					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16	25.4						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17	39.2	5.0					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18	36.2						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19	35.5						
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21	38.1	0.0					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22	19.3	5.0					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23		1.2					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24	20.5	0.0					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25	20.0						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	26	20.5						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27	20.0						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28	20.0						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29	20.6						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	30	20.6						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		20.9						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			10.0					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33		0.0					
36         21.6         5.0           37         50.0         11.0           38         24.0         10.0           39         63.8         0.0           40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0		21.4	15.0					
36         21.6         5.0           37         50.0         11.0           38         24.0         10.0           39         63.8         0.0           40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	35	20.7	5.0					
37         50.0         11.0           38         24.0         10.0           39         63.8         0.0           40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0								
38         24.0         10.0           39         63.8         0.0           40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	37	50.0						
39         63.8         0.0           40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	38	24.0						
40         36.0         0.0           41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	39	63.8						
41         34.0         0.0           42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	40							
42         32.8         5.0           44         21.0         0.0           46         38.1         0.0           47         195.8         0.0		34.0						
44         21.0         0.0           46         38.1         0.0           47         195.8         0.0	42	32.8	5.0					
46 38.1 0.0 47 195.8 0.0	44							
47 195.8 0.0	46							
	47							
	48	203.8	0.0					
52 19.5 0.0	52							



22-05-2RS - 22-06.7 struct Re - See De et 10- ractor Utilit ing Relain	rtoining toining toils;		/ <del>Install 6"</del>		A Bock	:	RECORD DRAWING CERTIFICATE THESE DRAWINGS REFLECT RECORDED INFORMATION OBTANED MARINO PROVIDED HEREIN MY KNOWLEDGE. Pete Beilezzo 1/12/96
Water I	<del>S to STA :</del> Lines Shall I d in Concre	22+10.2RS be Arctic	5 37 A. 22-21 nstoll 10" 4 <del>A. 22-13.3</del> stell 10" 45	4RS, 6'LT-	-		SAFE WATER
0" Clpipir submit r replaced to water al Provisio ORS and S e existing tisting tre	34RS TO ng from th esults to t between th reservoir. ons. Sta.22-04RS. 6" Cl and ench sectio Cl piping.	te Lower V he Engineer ese station Improvem 10" CI pipin n at same	alve Vault r. If the ex ns. Piping i ents to Lo ng with 6" line and	xisting pipin improvemen wer Valve DIP and 10 grade as e	g is hts Vault )'' DIP xisting		
HDPE pi <i>alve Vault</i> lve vault) d 8" HDF <i>Upper Va</i> id for una	to Sta. 27- ping 1 foot <i>Into Reserval</i> to Sta. 22 PE piping 60 We Voult Into der "Dispose erly dispose	min. into w r <i>instead af</i> 7+32.4RS, 2 7 feet into <i>Reservair. Ti</i> al of Unusa	ater reser <i>sliplining ex</i> 2'RT (appr water res Ns pipe was	voir-see Si histing line, ox) slipline ervoir-see determined l plus Materie	neet 12. 8'' Sheet 11. o be		RECEIVENT CONTINUES
'OIR						230	WHITTIER WATER MIPROVEMENTS PHASE III RESERVOIR LINE STA 21:34RS - STA 28:00RS
						<u>220</u> 210 200	ION BY DATE D.Y. 474495 P.B. VIZ796
						<u>190</u> 180	Project         9069         Fsee           No         Fsee         Fsee           Dote         APR         1995         Amu           Designed         P.B.         Drown         P.B./B.P.           Drown         P.B./B.P.         Approved         W.V.H.
			S	CHED	ULE	A	Sheet No. SHEET <u>5</u> OF <u>25</u>



TRENCH CROSS SECTION NOTES

TRENCH FINISH SCHEDULE

.

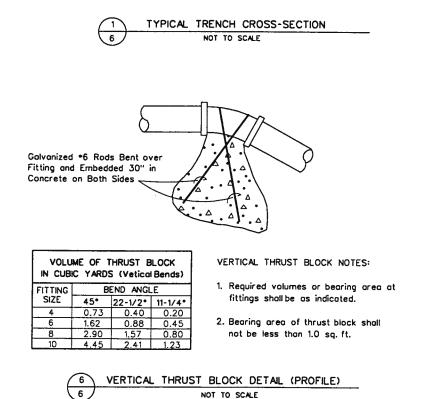
PAVED ROADWAYS: Finish trench with 2" leveling course and 2" Type C AC Pavement over 18" Type II-A material (2" minus).

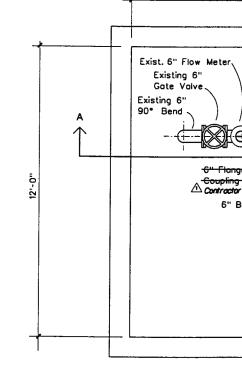
GRAVEL ROADWAY OR PARKING: Finish trench with 6" Type II-A material (2" minus). Match grade and slope.

AWN: Finish trench with 4" topsoil and seeding.

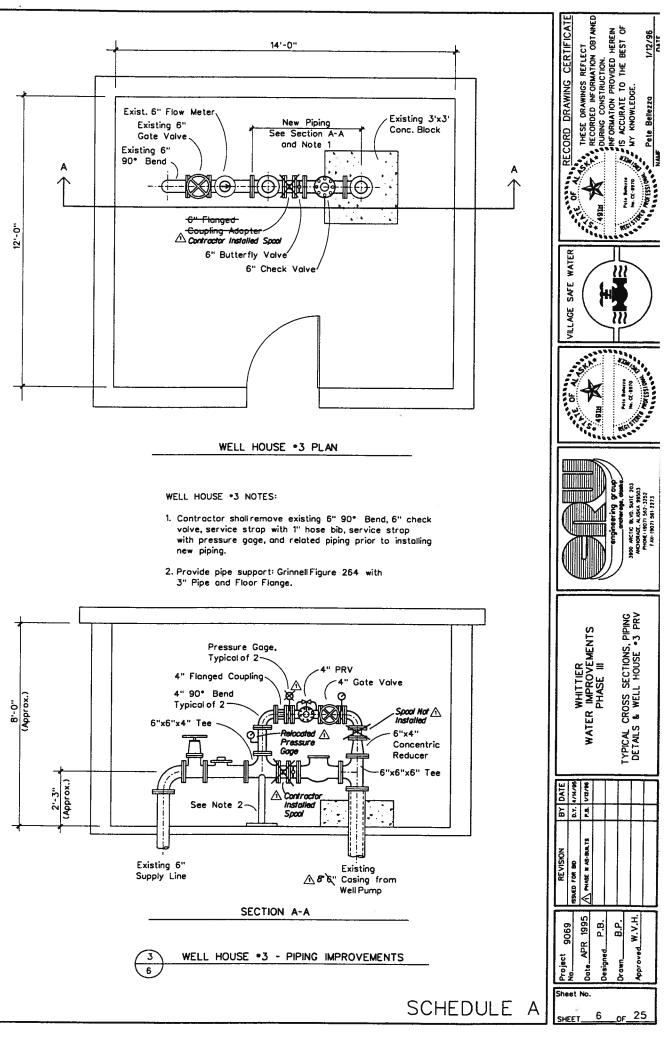
OTHER: Finish with native material, graded smooth.

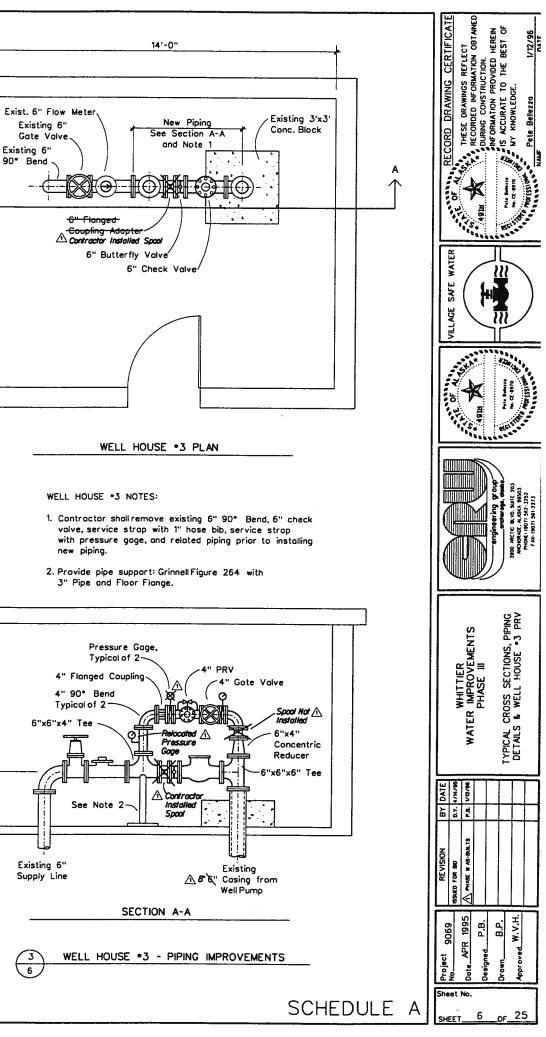
- 1. Trench excavation and shoring shall comply with local, state and OSHA regulations and requirements. Indicated slope is for pay quantity determination only for imported backfill gravel and resurfacing requirements.
- 2. Trench Backfill will be the original trench backfill material as approved by the Engineer. Roadways and roadway prisms shall have 8" max. rock size. Mechanical compaction to a minimum 95% of the maximum density.
- 3. Closs C Pipe Bedding shall be installed 6" min. above top of pipe per MASS Standard Detail 20-13. Disregard Note •4 on Standard Detoil 20-13.
- 4. Maximum width of povement cut for pay limits shall be 9' from centerline of pipe(s) or to edge of existing pavement, whichever is less.

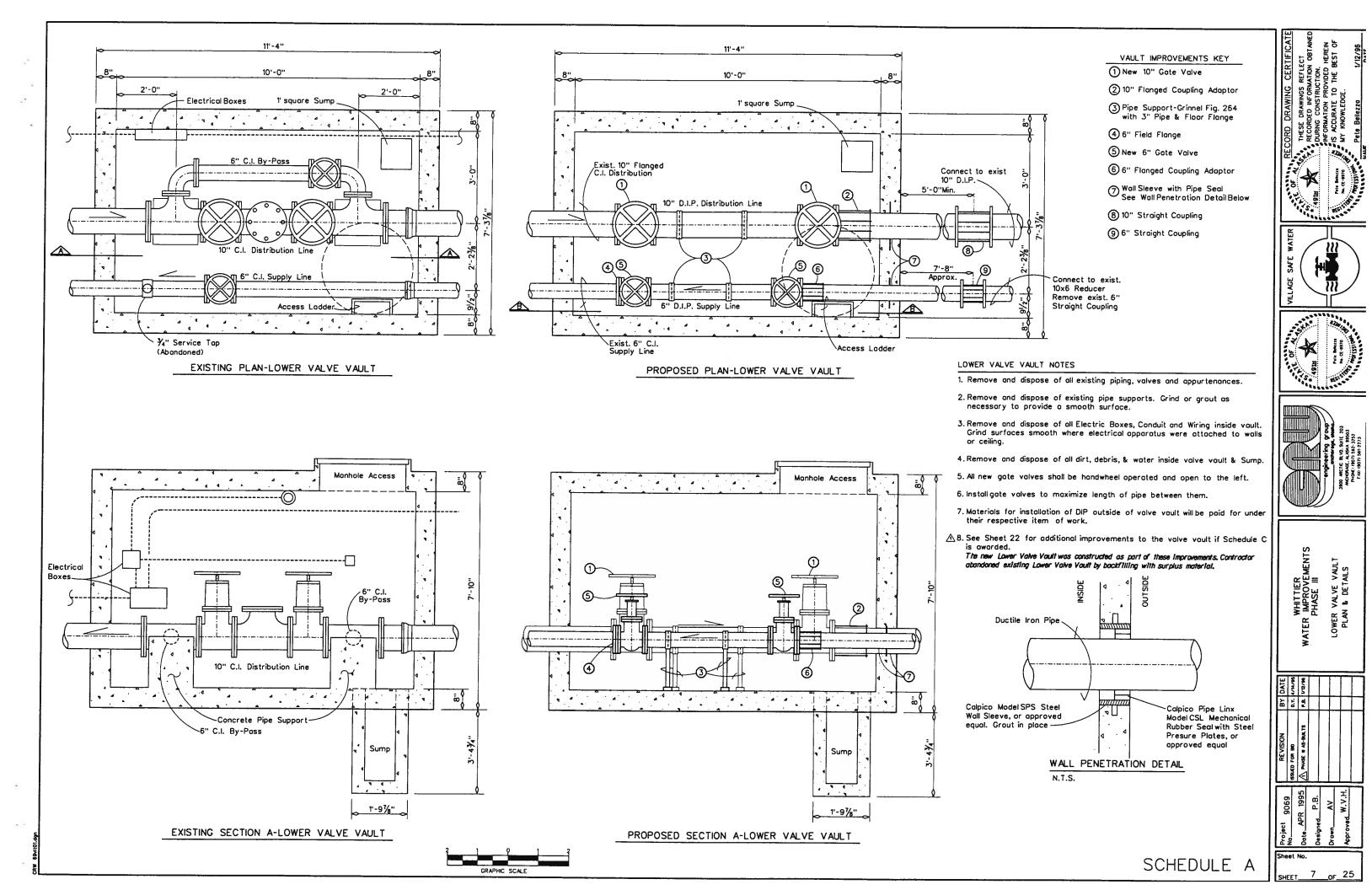


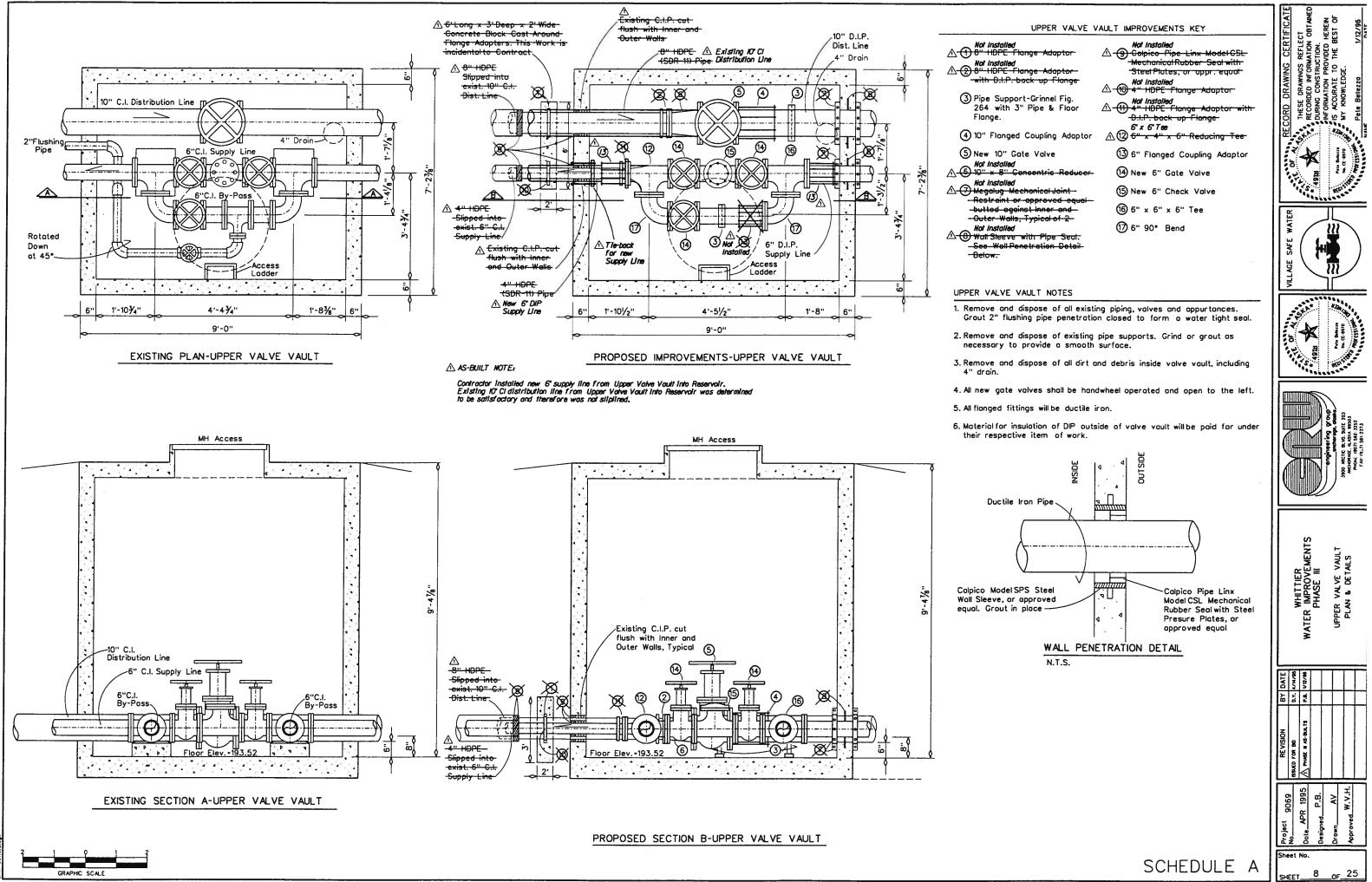


new piping.

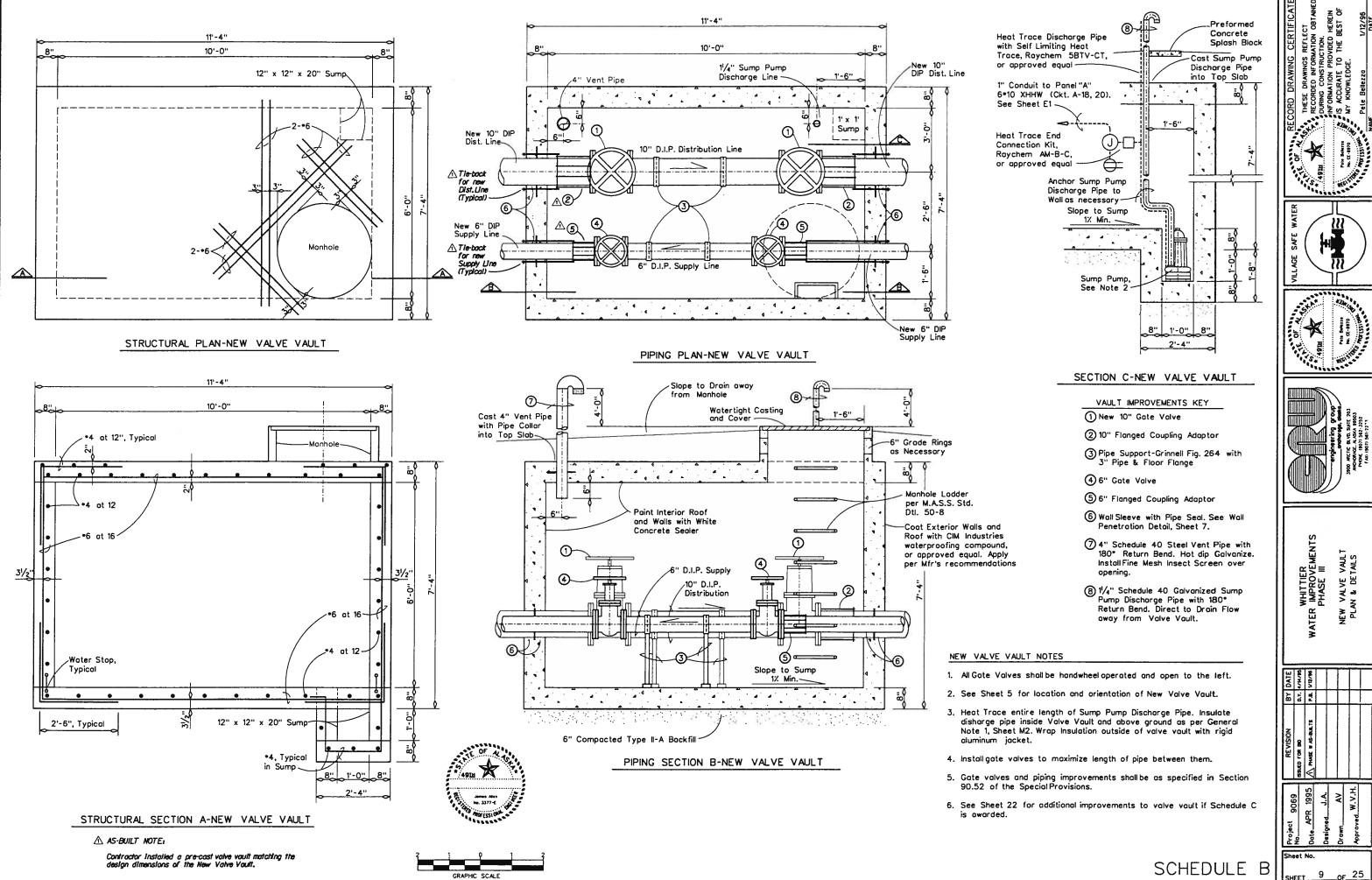




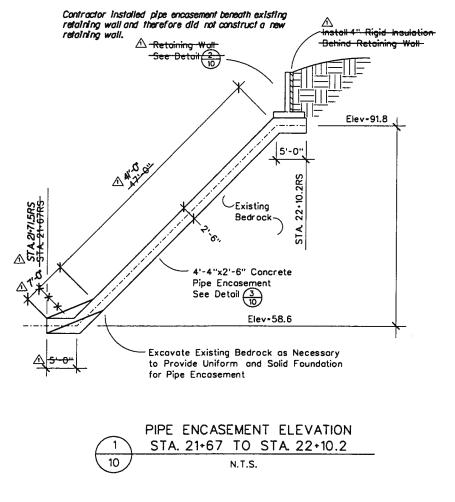


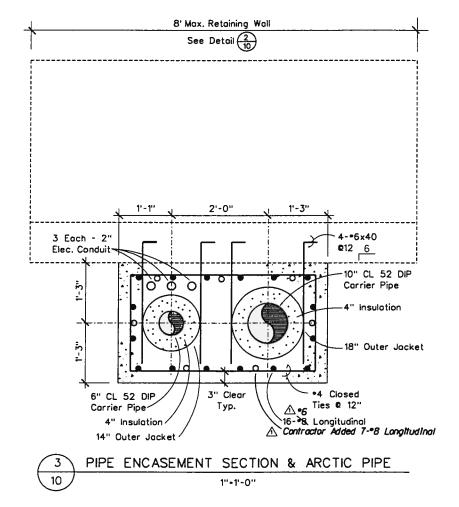


UPPER VALVE V	AULT IMPROVEMENTS KEY
led - Flange Adaptor- led - Flange Adaptor- Pback-up Flange oport-Grinnel Fig. h 3" Pipe & Floor	Not Installed
ged Coupling Adaptor	<del>D.I.P. back up Flange</del> <i>€ x 6 Tæ</i> ▲⑫ <del>6" x 4" x 6" Reducing Tee</del>
Gate Valve	3 6" Flanged Coupling Adaptor
<u>- Concentric Reducer</u>	14 New 5" Gate Valve
led Mechanical Joint - t-or-approved-equal	(5) New 6" Check Vaive
against Inner and	16 6" × 6" × 6" Tee
<del>alls, Typical of 2-</del> Ied verwith Piper Seal <del>.</del> IPenetration Detail-	🕜 6" 90° Bend



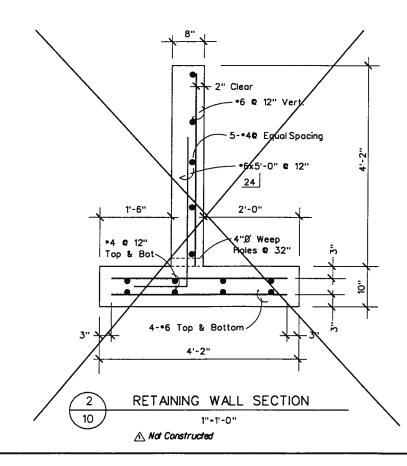
### AS-BUILT NOTE:

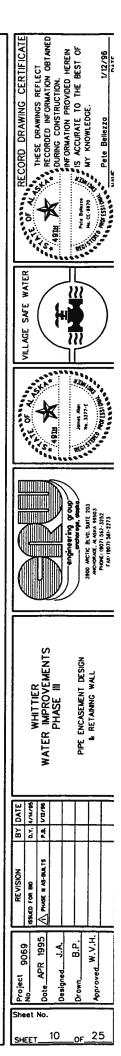




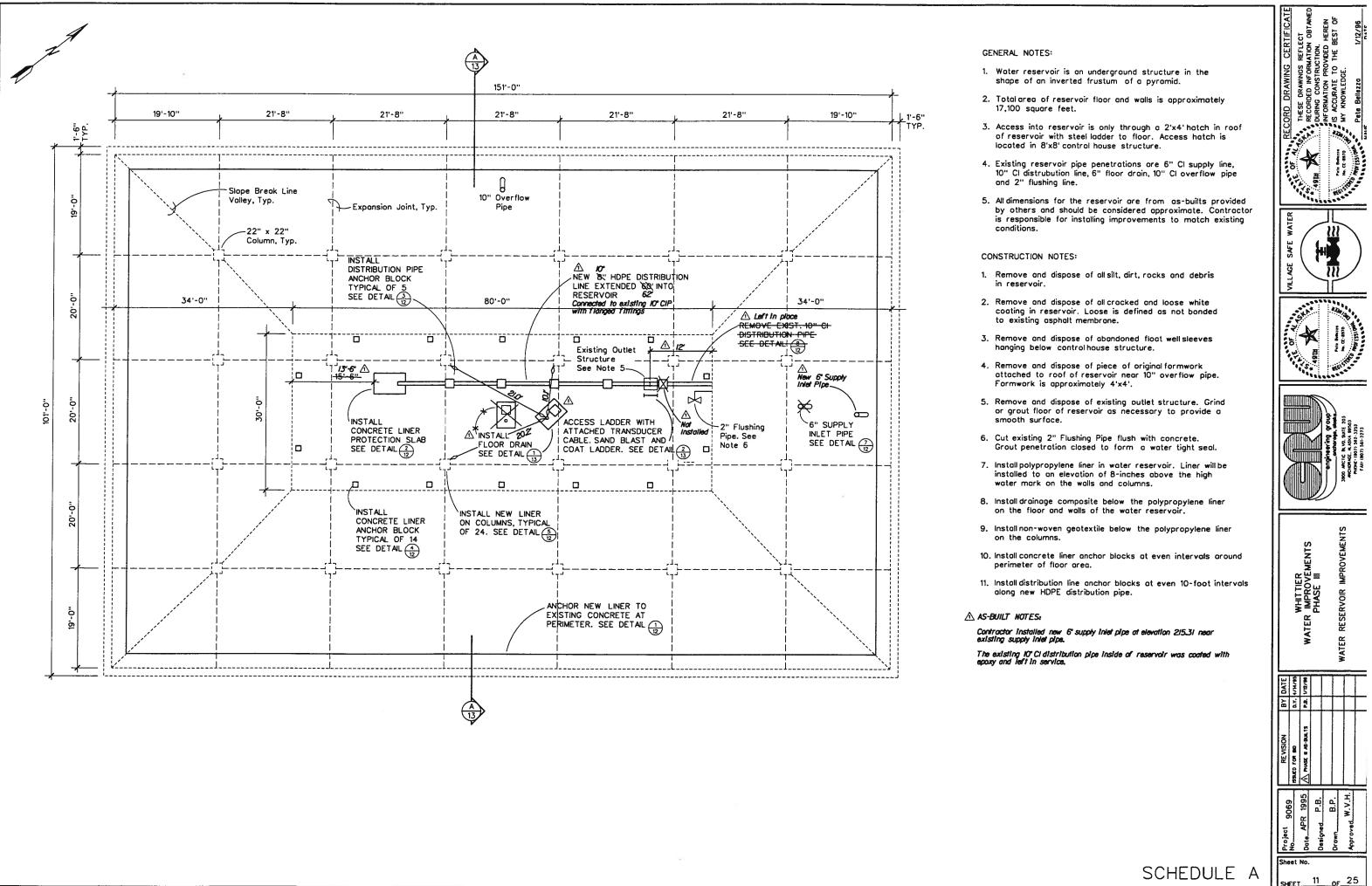
### NOTES:

- 1. Contractor is responsible for designing system to anchor pipe encasement to existing bedrock. See Special Provisions.
- Remove existing retaining wall at Sta. 22+04RS as necessary for construction of new pipe encasement and retaining wall.



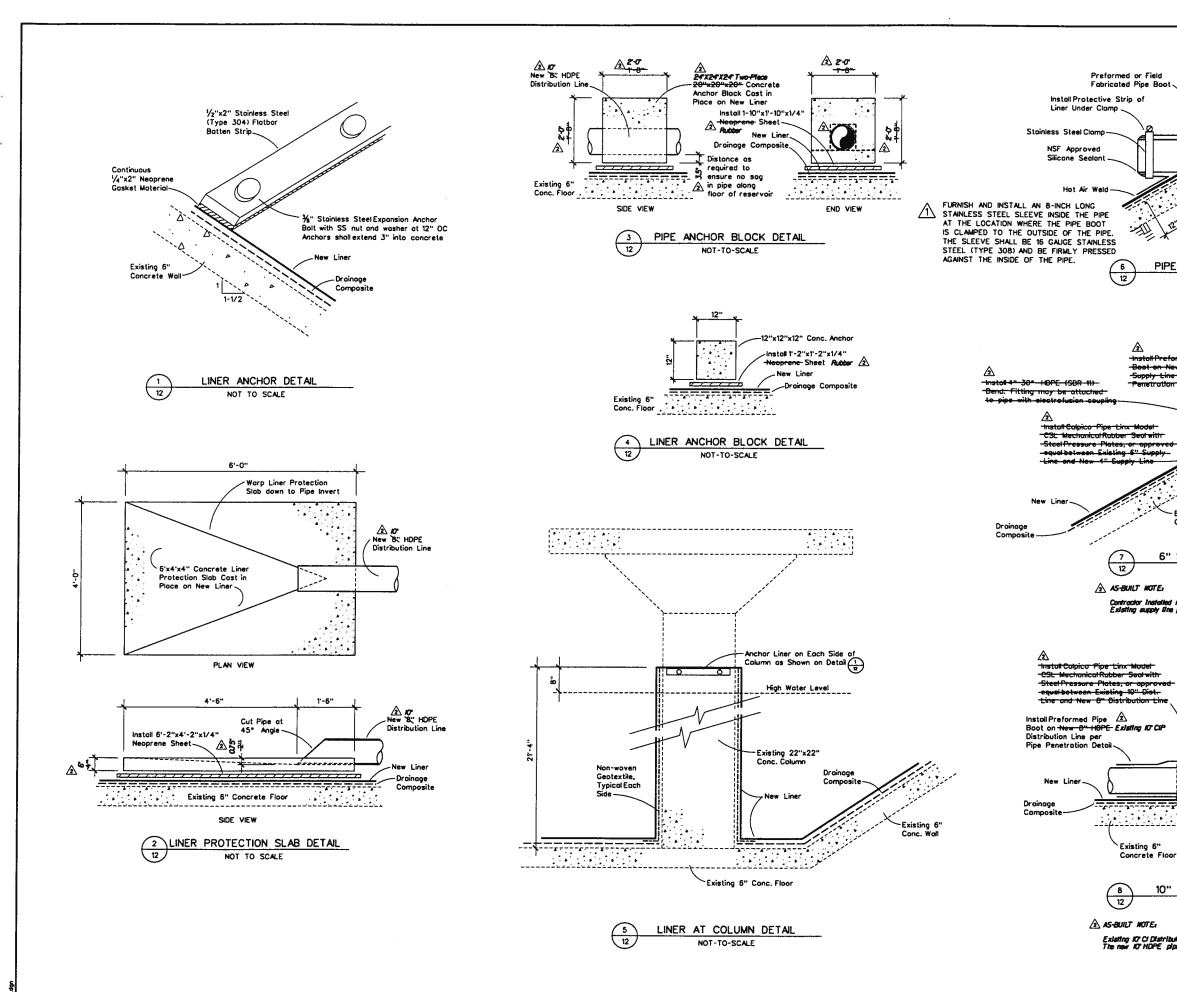


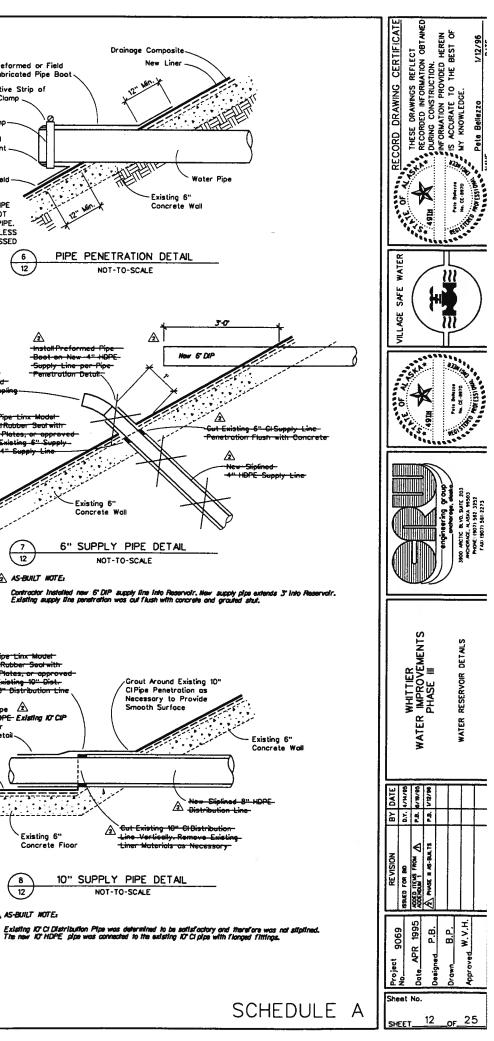
SCHEDULE B

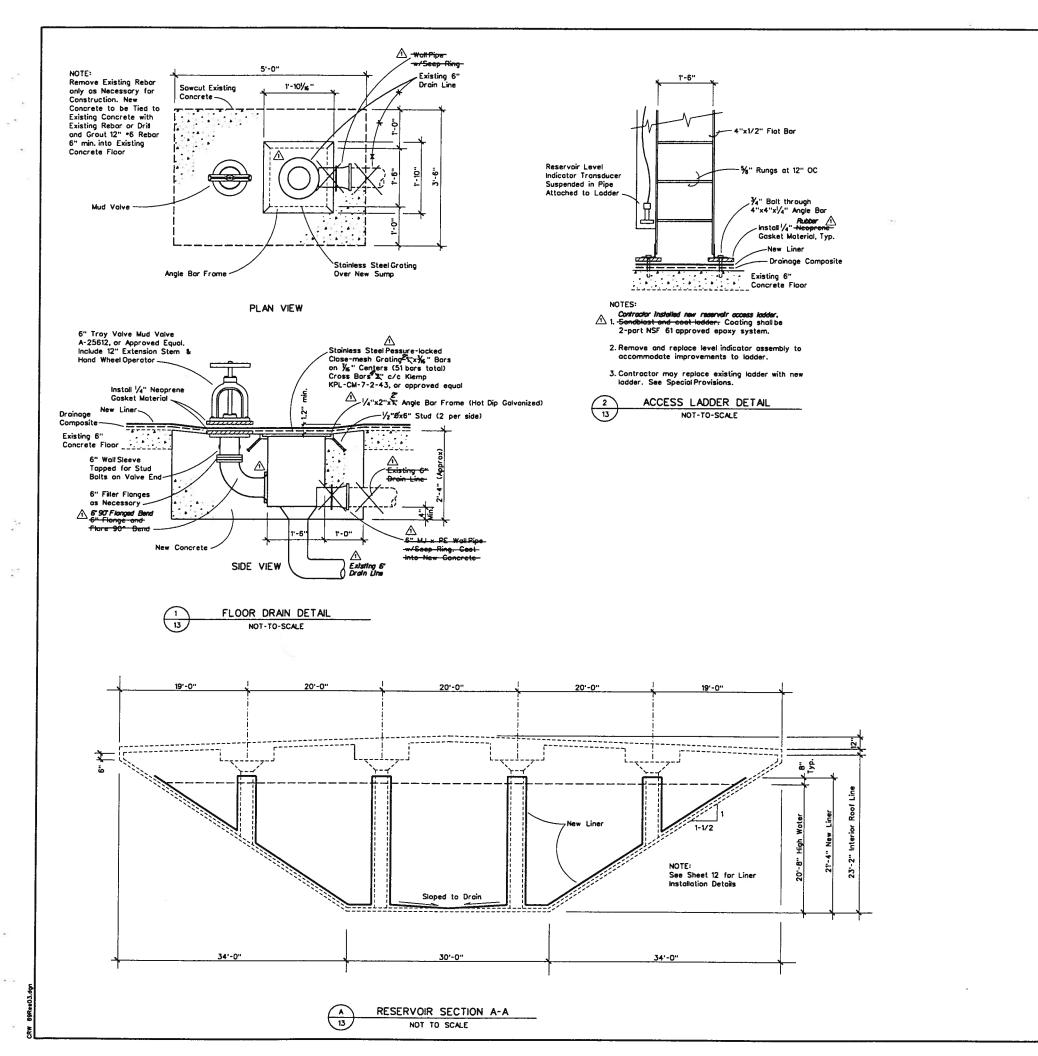


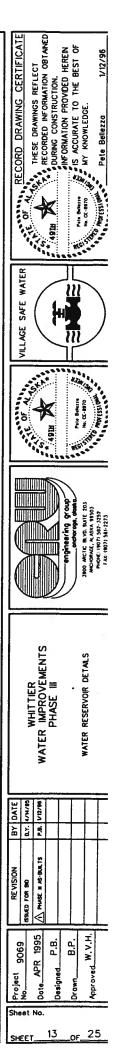
SCHEDULE A

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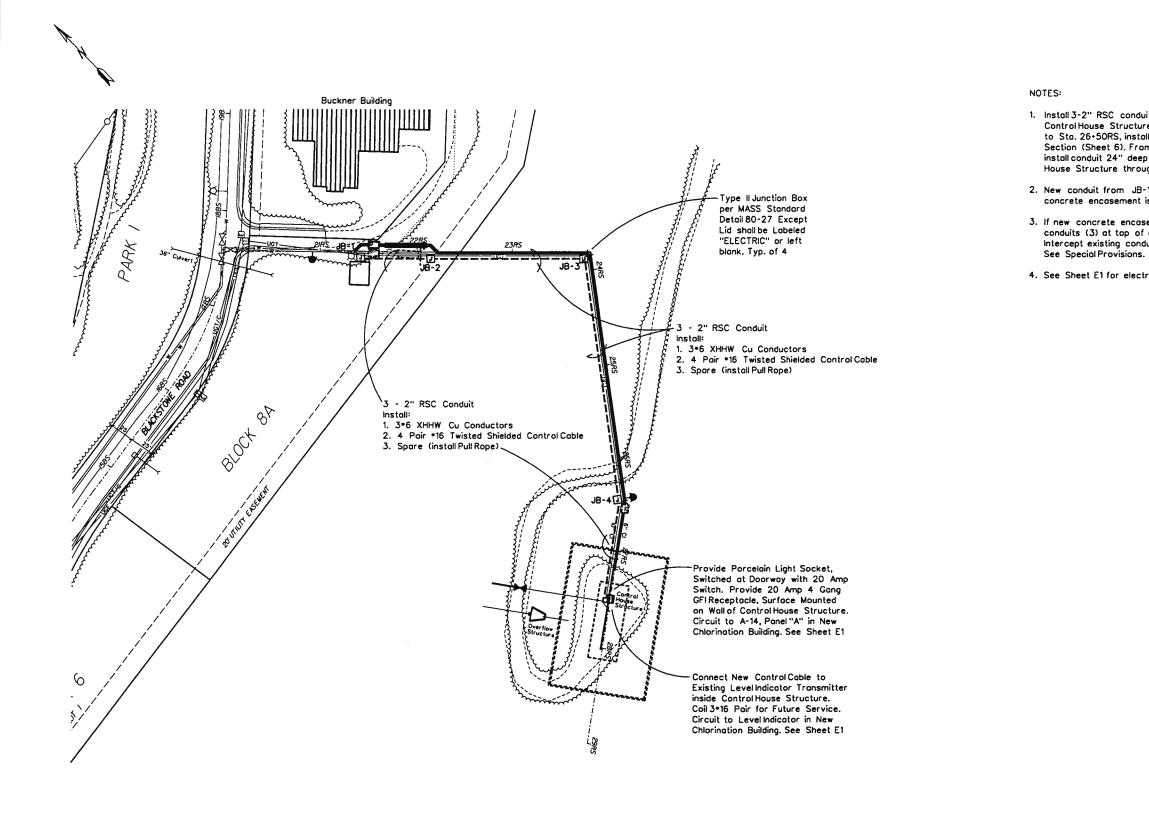








SCHEDULE A



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 Install 3-2" RSC conduit from JB-2 at Sta. 22+14RS to the Control House Structure at Sta. 27+45RS. From Sta. 22+14RS to Sta. 26+50RS, install conduit as shown in Typical Cross Section (Sheet 6). From Sta. 26+50RS to Sta. 27+45RS install conduit 24" deep min. New conduit shall enter Control House Structure through existing conduit penetrations.

2. New conduit from JB-1 to JB-2 will be installed only if new concrete encasement is installed. See Special Provisions.

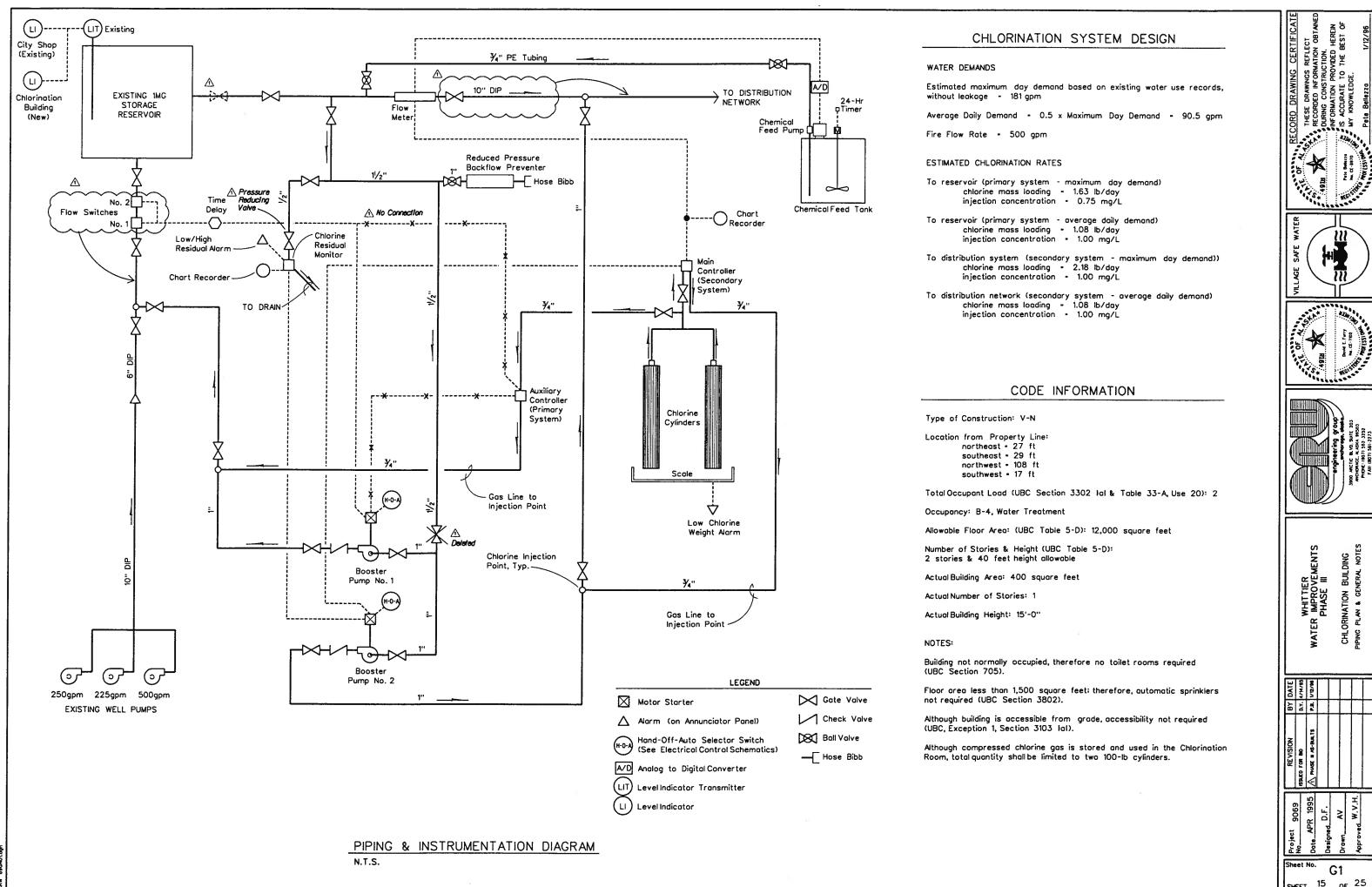
3. If new concrete encasement is not installed, intercept existing conduits (3) at top of existing pipe encasement with JB-2. Intercept existing conduits (3) at Lower Valve Vault with JB-1. See Special Provisions.

4. See Sheet E1 for electrical from JB-1 to Chlorination Building.

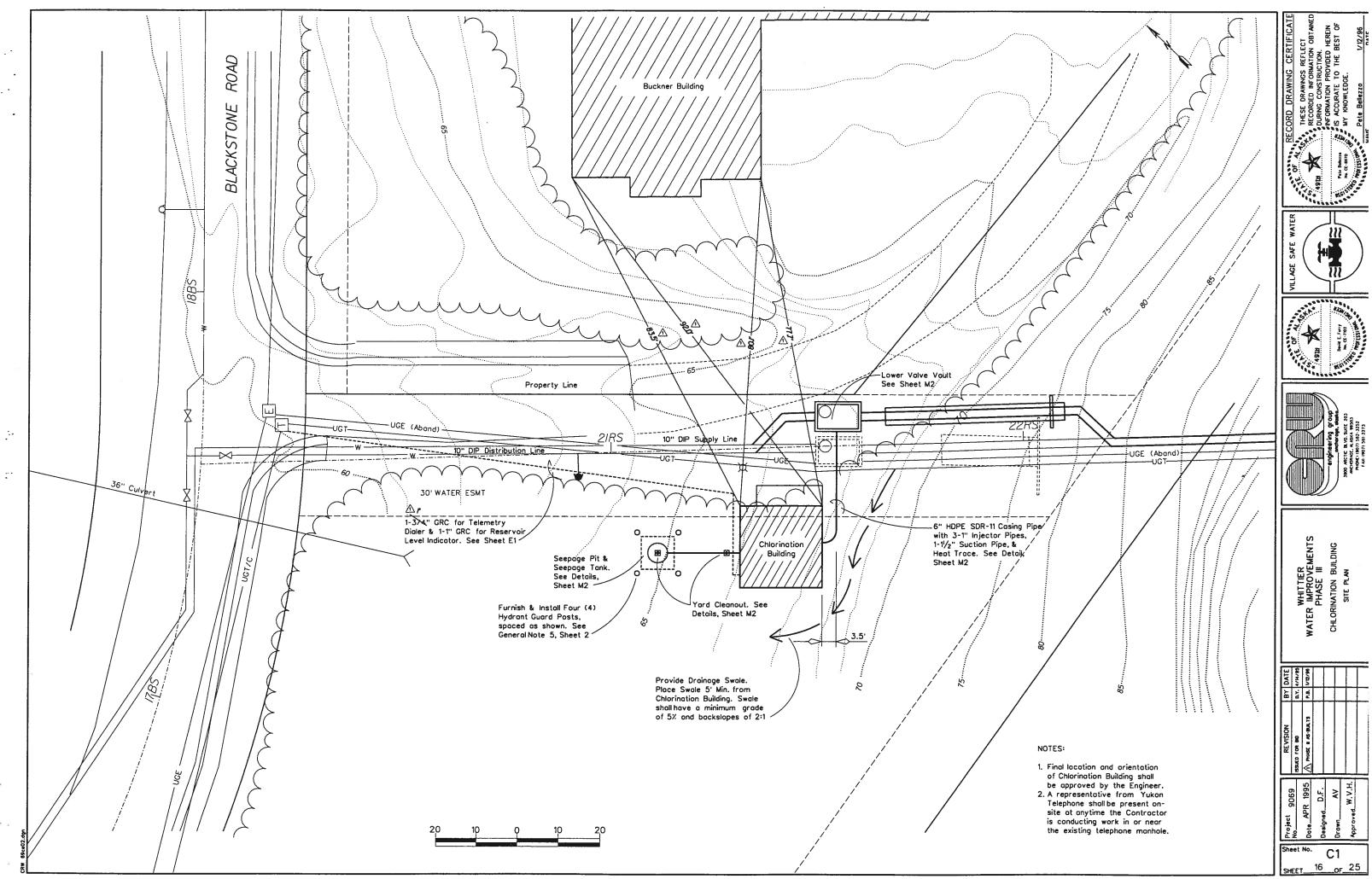
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BY DATE	D.Y. 4/M/95	P.B. V12/96					
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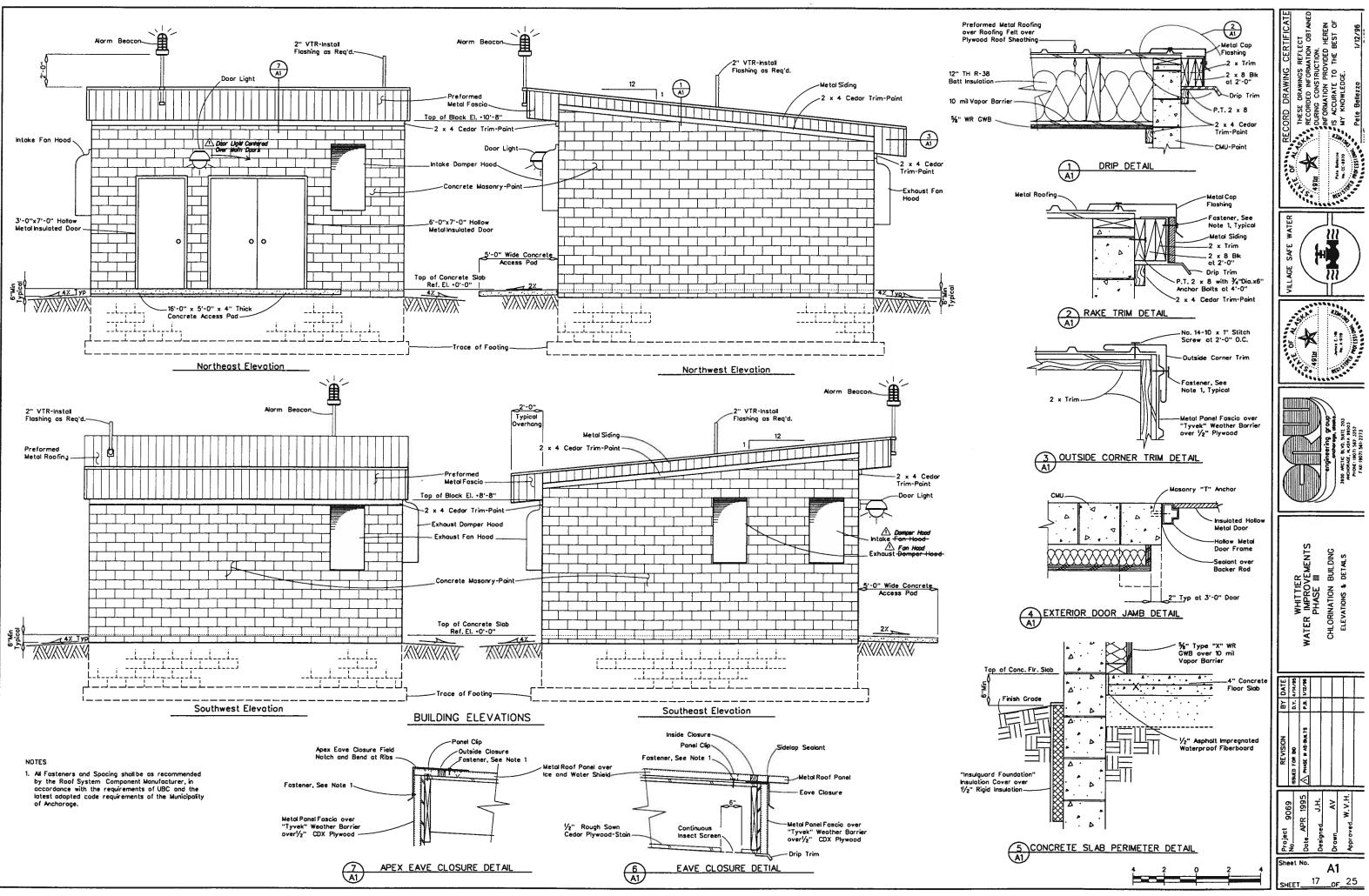
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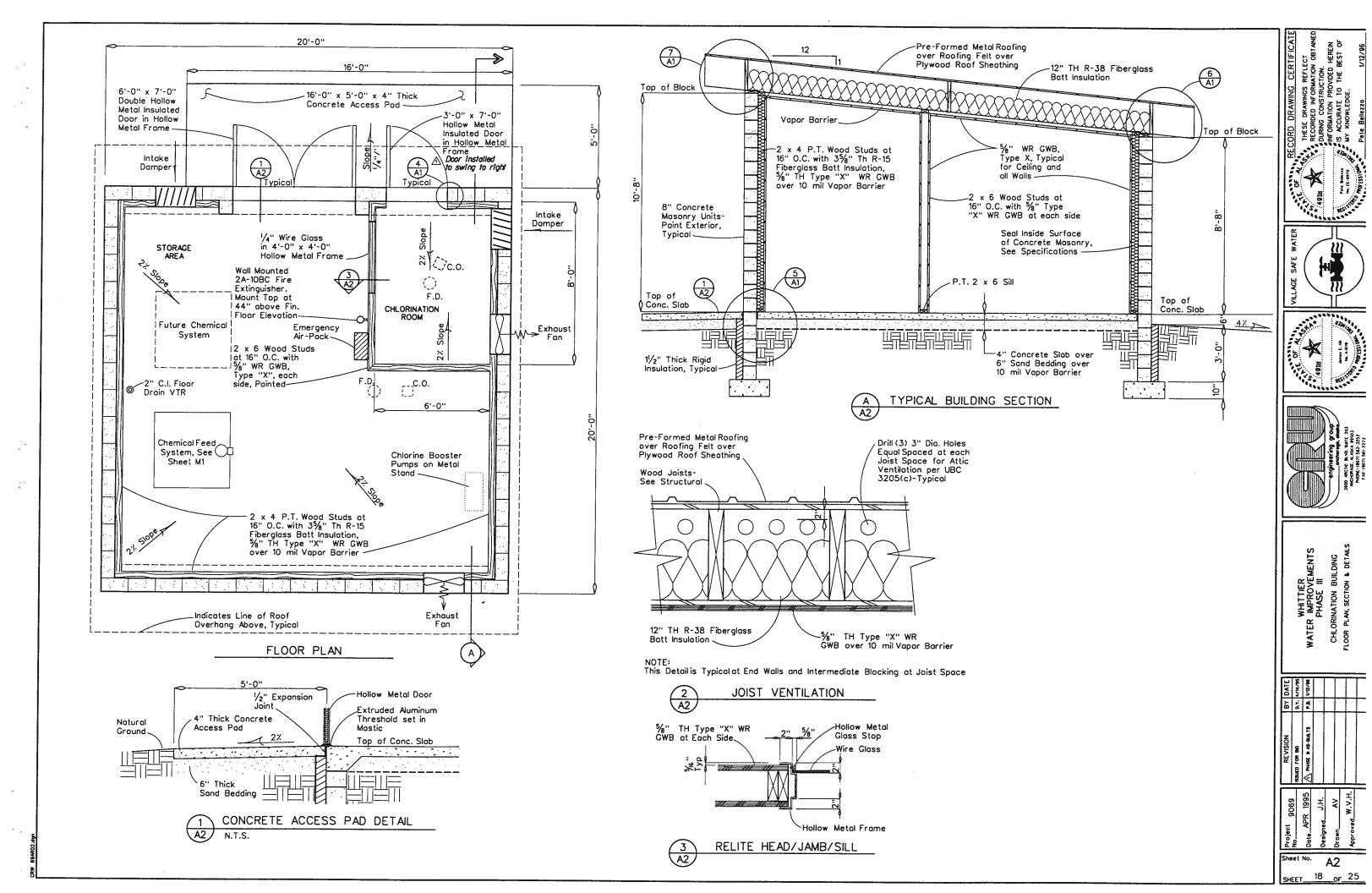
SCHEDULE A

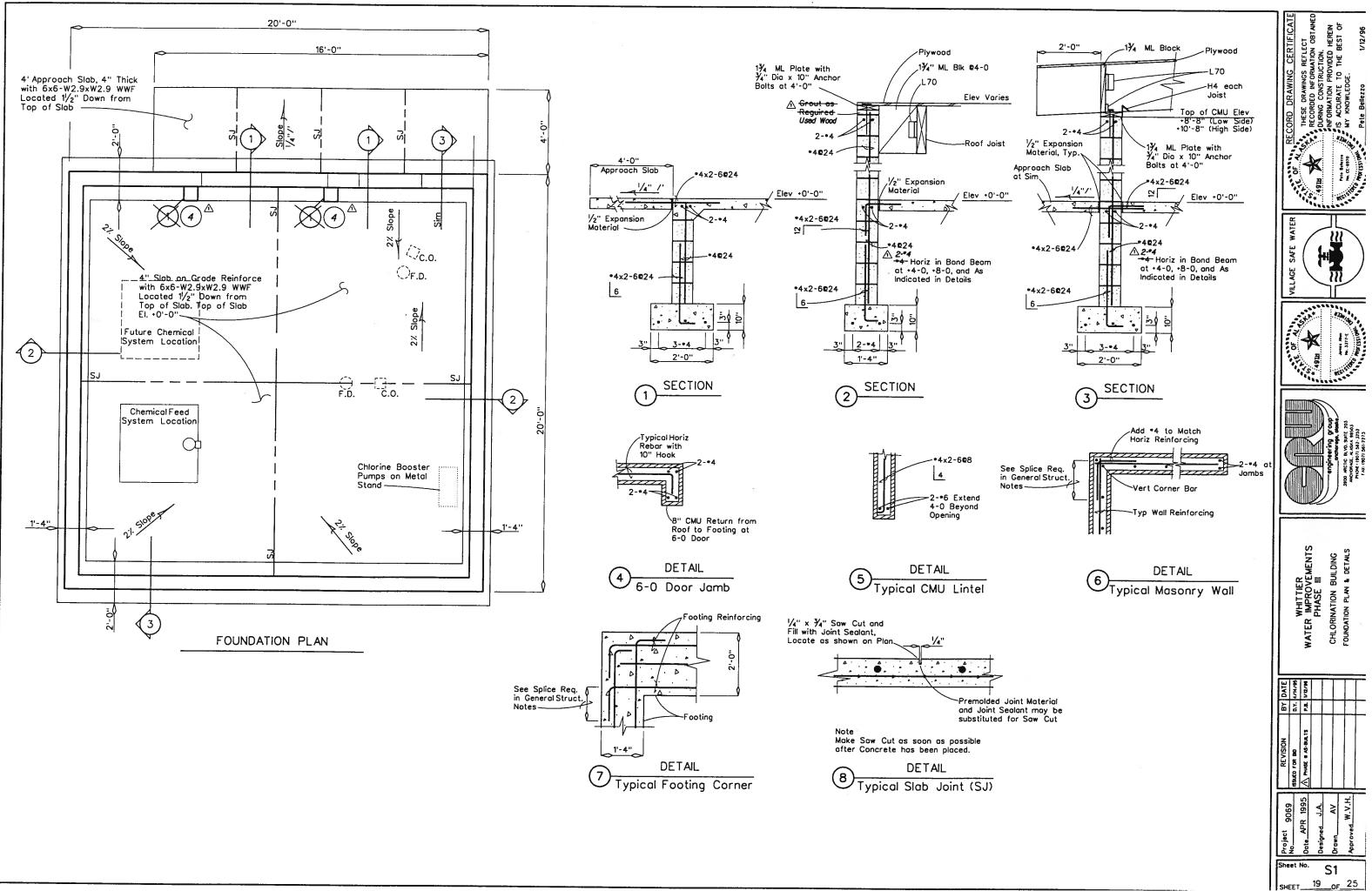


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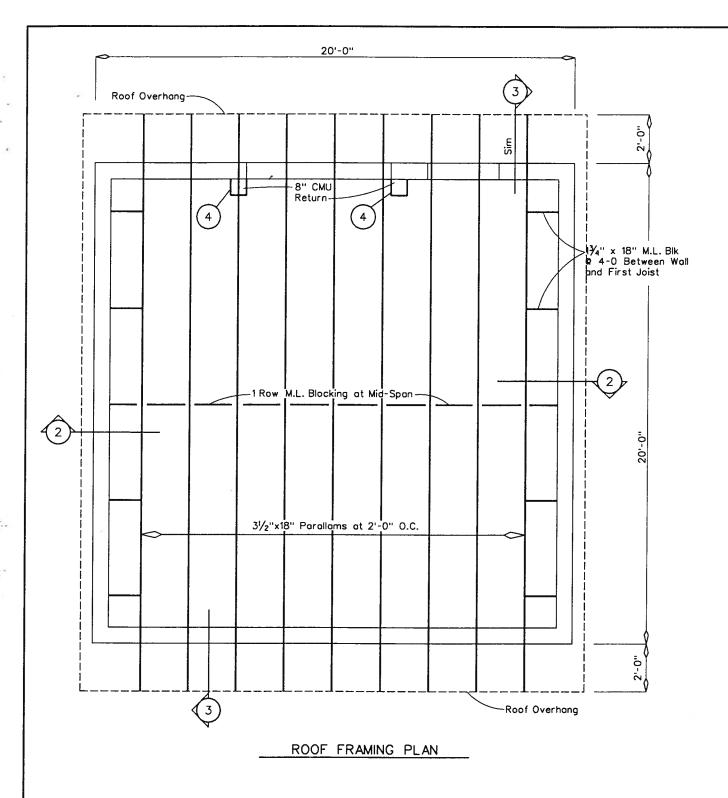




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### 1. Design Criteria:

- Uniform Building Code, 1991 Edition Occupancy Category IV Snow LL = 280 PSF, I = 1.00 Soil Pressure 3,000 PSF Seismic Zone 4, I = 1.00, Rw = 6 Wind 100 M.P.H. Basic, Exposure C, I = 1.00
- 2. Soils data: Remove all organics and other objectionable materials. Provide 12 inches of NFS sandy gravel beneath all footings and slabs on grade. Compact to 95% maximum density.
- Slump shall be 3 inches maximum.
- beams with reinforcing steel at locations shown in the details.
- 5. Reinforcing steel shall conform to ASTM A-615, Grade 60. All reinforcing lapped 44 bar diameters minimum. All splices in masonry shall be lapped 30 bar diameters minimum. Welded Wire Fabric shall conform to ASTM A-185.
- Plywood panels shall be stamped with APA Grade Trademark of the American Plywood Association and shall meet U.S. Product Standard P.S. 1-83. All Plywood shall have exterior glue.



### STRUCTURAL NOTES

3. Concrete shall have a minimum compressive strength of 3,000 psi at 28 days, measured, mixed, and placed in accordance with ACI Std. 304.

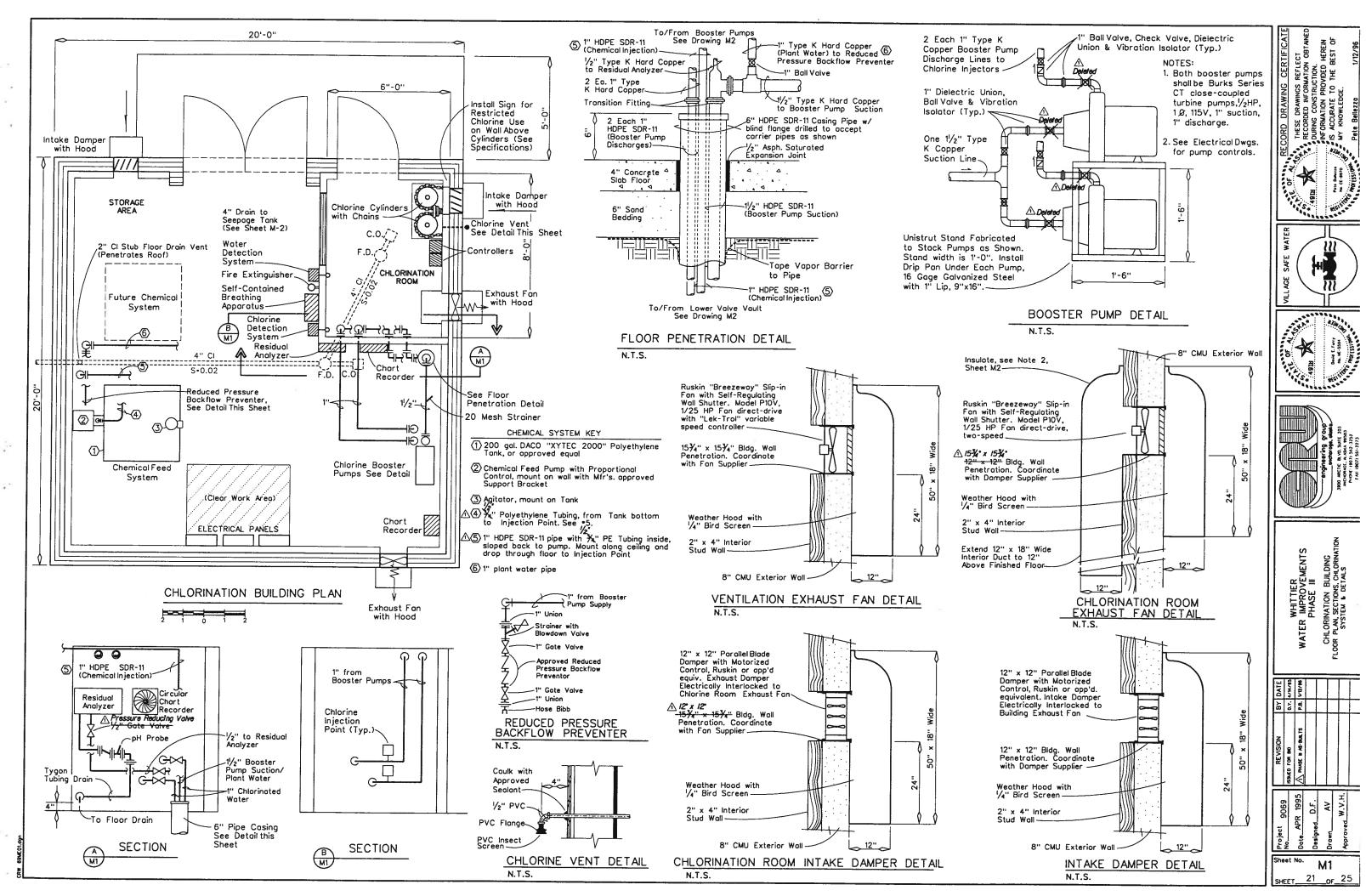
 Masonry materials shall conform to the following ASTM Standards: Concrete Masonry Units, ASTM C-90, Grade N-1, F'm = 1,500 psi; Mortar, ASTM C-476, Type M, Grout, C-476, F'c = 2,000 psi, slump 8 inches; provide nonshrink type admixture, i.e. Grout Aid, and mechanical vibration for consolidation. All cells shall be grouted full. Provide bond

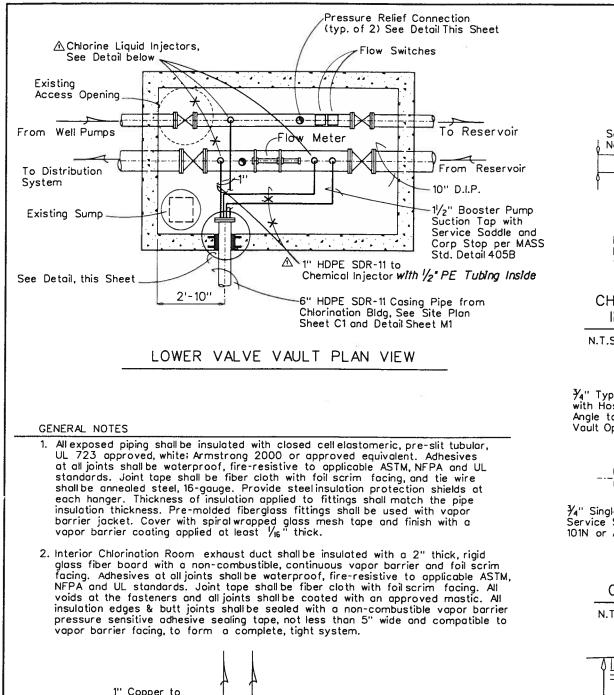
steel shall be detailed, fabricated, and placed in accordance with ACI 318-89 and ACI 315-80 (Revised 1986). All splices in concrete shall be

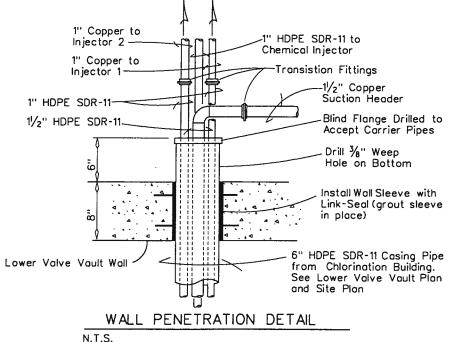
Roof sheathing shall be APA 1 1/8" CDX. Panel Identification Index 48/24. Install with face grain perpendicular to supports. Stagger end panel joints. Nail at 4 c-c all panel edges and 8 c-c at intermediate supports. All nails shall be 10d common or galvanized box nails.

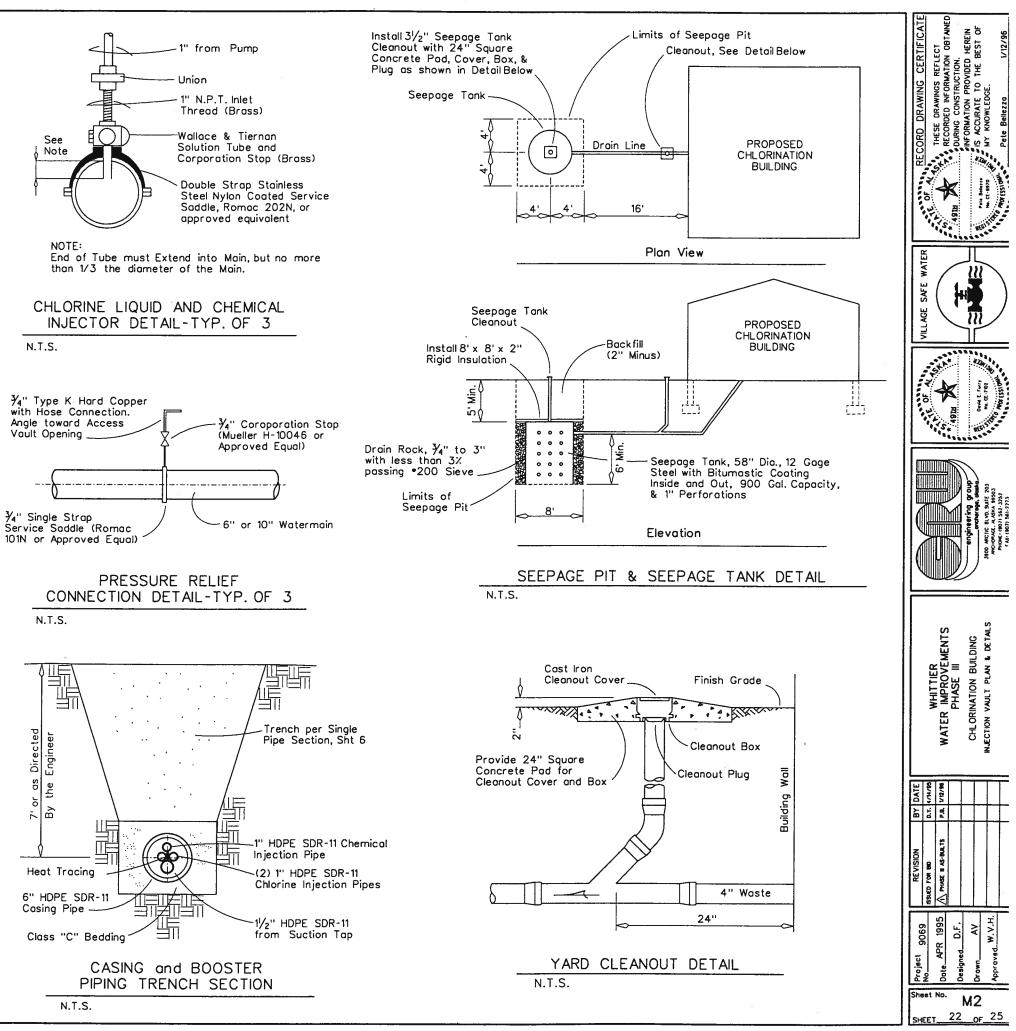
7. Laminated Veneer Lumber shall be "Parallams" by Trus Joist MacMillon for equal and shall have the following allowable stresses: Fb = 2,900 psi, Fv = 290 psi, E = 2,000,000 psi. All adhesive shall be waterproof meeting the requirements of ASTM D-2559.

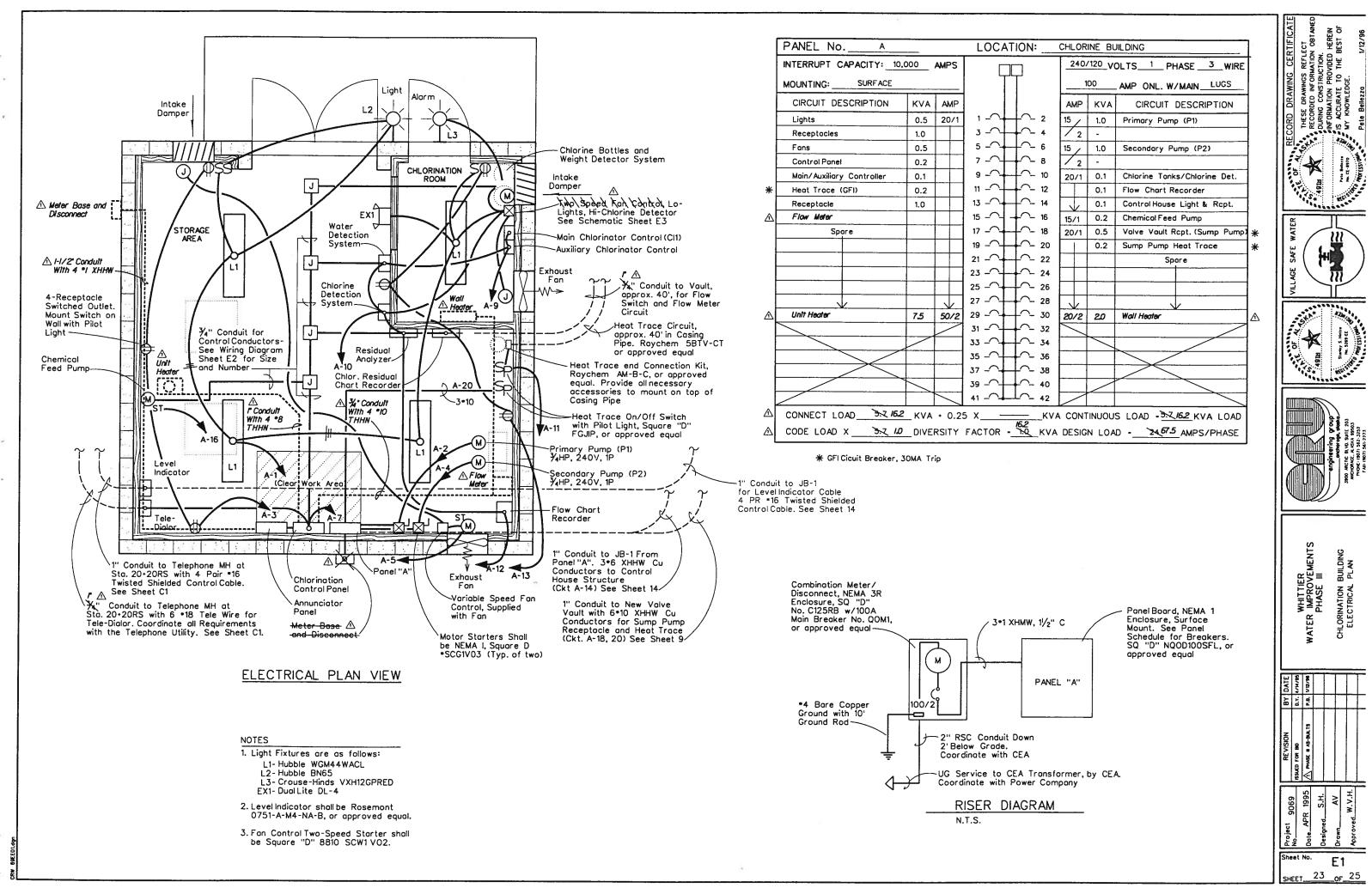
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BY DATE	D.Y. 4/14/95	P.B. 1/2/96					
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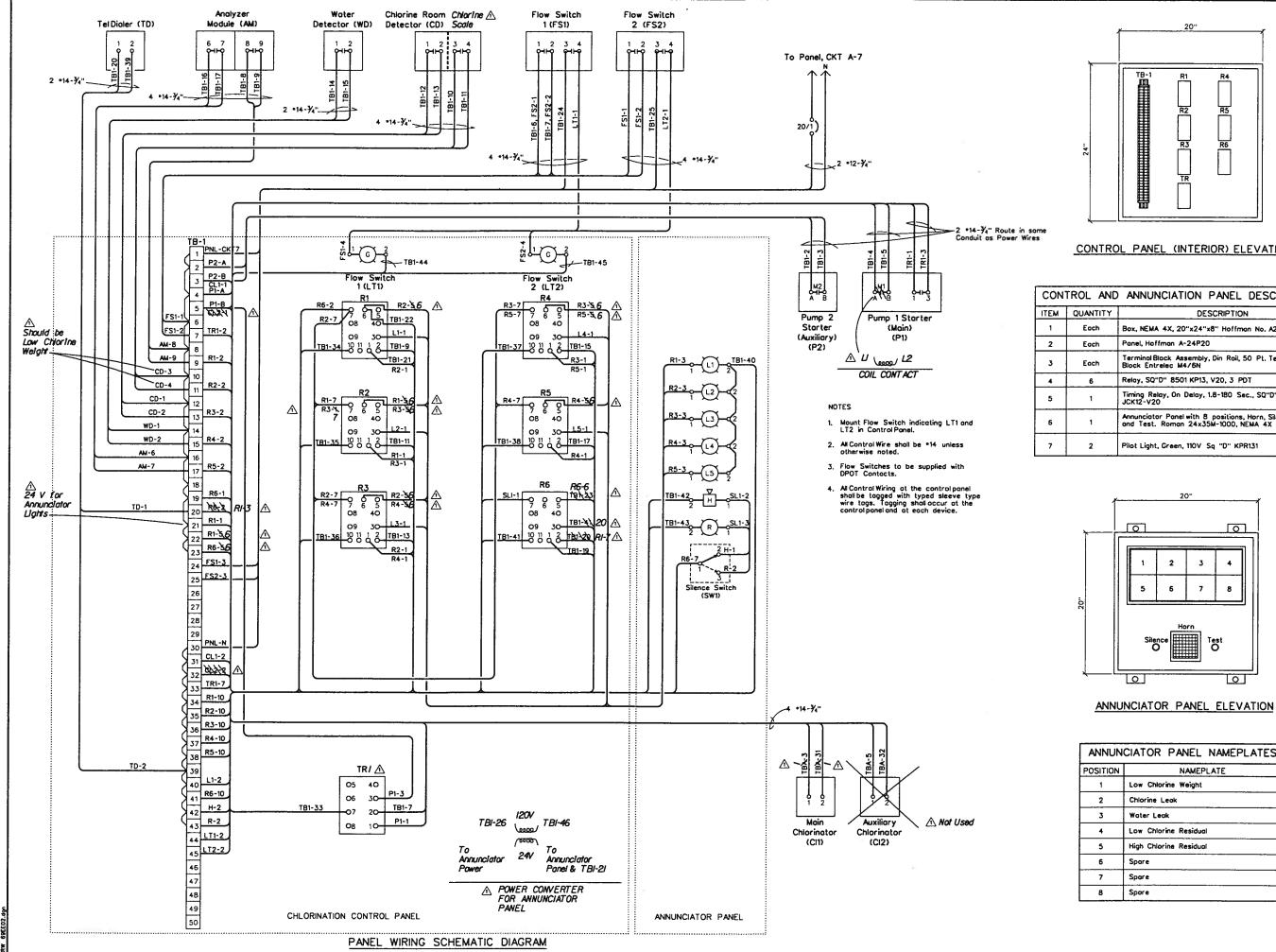












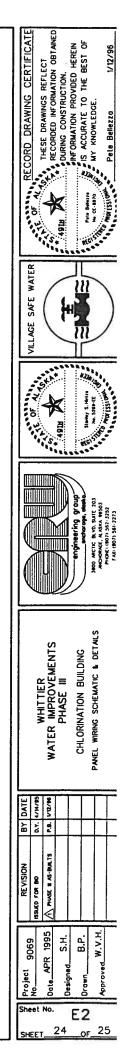
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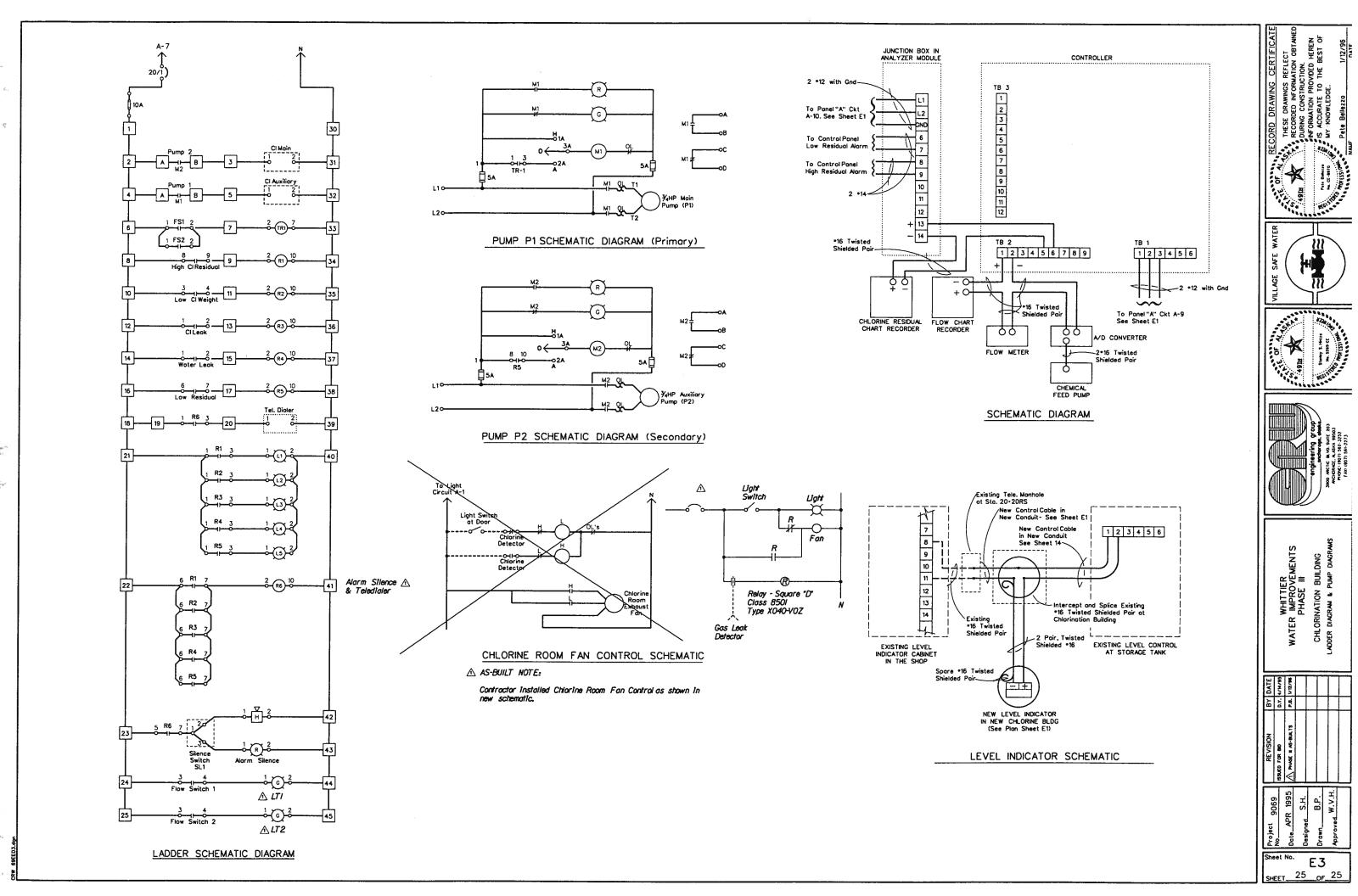
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### CONTROL PANEL (INTERIOR) ELEVATION

AND ANNUNCIATION PANEL DESCRIPTION					
NTITY	DESCRIPTION				
och	Box, NEMA 4X, 20"x24"x8" Hoffmon No. A24H2008SSLP				
och	Panel, Hoffman A-24P20				
och	Terminal Black, Assembly, Din Rail, 50 Pt. Terminal Black Entrelec M4/6N				
6	Relay, SQ"D" 8501 KP13, V20, 3 PDT				
1	Timing Relay, On Delay, 1.8-180 Sec., SQ"D" 9050 JCK12-V20				
1	Annunciator Panel with 8 positions, Horn, Silence SW and Test. Roman 24x35M-1000, NEMA 4X				
2	Pilot Light, Green, 110V Sq "D" KPR131				

NNUNCIATOR PANEL NAMEPLATES		
NAMEPLATE		
Low Chlorine Weight		
Chlorine Leak		
Water Leak		
Low Chlorine Residual		
High Chlorine Residual		
Spare		
Spore		
Spare		





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